

Appendix B

Laboratory Data & Reports

Orsat Data Sheets

EPA Method 3/3B Lab Summary Sheet

Orsat Gas Analysis

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Project FHR Pine Bend
Test Location PCLU Station
Sampling Date 7-26-11

Analyst SNJ
Analysis Date 7-27-11
Sample Type ☒ Integrated ☐ Grab

Test/ Run	O ₂ Hold Check		Orsat Results		Calculated		QA Check Ranges		
	Field	Lab	%CO ₂	%O ₂	F _o	MW	Criteria	Range	QC Status
Rep 1	—	—	12.6	5.2	—	—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			12.6	5.2	—	—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			12.6	5.2	—	—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			12.6	5.2	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1	—	—	12.5	5.1	—	—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			12.5	5.1	—	—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			12.5	5.1	—	—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			12.5	5.1	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1	—	—	12.6	5.3	—	—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			12.6	5.3	—	—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			12.6	5.3	—	—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			12.6	5.3	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject

QC Checks:

QC Parameter

Calculation

Criterion

Molecular Weight	$0.44 \times \text{CO}_2\% + 0.32 \times \text{O}_2\% + 0.28 \times (100 - \text{CO}_2\% - \text{O}_2\%) = \text{MW}$	
M-3: MW Range	$\text{MW}(\text{Rep 1-3}) - \text{MW}(\text{avg}) = \text{MW}(\text{max}\Delta)$	$\leq 0.3 \text{ LB/LB-mole}$ - Report maximum difference
M-3B: F _o	$(20.9 - \text{O}_2\%) \div \text{CO}_2\%$	If combustion source, compare to Method table
M-3B: CO ₂ Range	$\text{CO}_2\%(\text{max}) - \text{CO}_2\%(\text{min}) = \text{CO}_2\% \text{ Range}$	$\leq 0.3\% \text{ CO}_2$ when $\text{CO}_2 > 4\%$, $\leq 0.2\%$ when $\leq 4\%$
M-3B: O ₂ Range	$\text{O}_2\%(\text{max}) - \text{O}_2\%(\text{min}) = \text{O}_2\% \text{ Range}$	$\leq 0.3\% \text{ O}_2$ when $\text{O}_2 < 15\%$, $\leq 0.2\%$ when $\geq 15\%$
Pace: O ₂ Hold	Field O ₂ - Lab O ₂ = Hold Range	$\leq 0.3\% \text{ O}_2$

EPA Method 3 Lab Data Sheet

Orsat Gas Analysis

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Project FHR BCLN

Analyst SNF

Test Location FCCU STN

An. Date 7-27-11

Sampling Date 7-26-11

Apparatus 3950

Apparatus Check (Ambient)		Apparatus Leak Check - Pos. _____ Neg. _____	
Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>1</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml
		Final Rdg. <u>6.0</u> ml	Final Rdg. <u>20.9</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>6.0</u> ml	Volume O ₂ <u>20.9</u> ml
		% CO ₂ <u>6.0</u> %	% O ₂ <u>20.9</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>1</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>12.6</u> ml
		Final Rdg. <u>12.6</u> ml	Final Rdg. <u>17.8</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>12.6</u> ml	Volume O ₂ <u>17.8</u> ml
		% CO ₂ <u>12.6</u> %	% O ₂ <u>5.2</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>12.6</u> ml
		Final Rdg. <u>12.6</u> ml	Final Rdg. <u>17.8</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>12.6</u> ml	Volume O ₂ <u>17.8</u> ml
		% CO ₂ <u>12.6</u> %	% O ₂ <u>5.2</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>12.6</u> ml
		Final Rdg. <u>12.6</u> ml	Final Rdg. <u>17.8</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>12.6</u> ml	Volume O ₂ <u>17.8</u> ml
		% CO ₂ <u>12.6</u> %	% O ₂ <u>5.2</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>2</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>12.5</u> ml
		Final Rdg. <u>12.5</u> ml	Final Rdg. <u>17.6</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>12.5</u> ml	Volume O ₂ <u>17.6</u> ml
		% CO ₂ <u>12.5</u> %	% O ₂ <u>5.1</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>12.5</u> ml
		Final Rdg. <u>12.5</u> ml	Final Rdg. <u>17.6</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>12.5</u> ml	Volume O ₂ <u>17.6</u> ml
		% CO ₂ <u>12.5</u> %	% O ₂ <u>5.1</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>12.5</u> ml
		Final Rdg. <u>12.5</u> ml	Final Rdg. <u>17.6</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>12.5</u> ml	Volume O ₂ <u>17.6</u> ml
		% CO ₂ <u>12.5</u> %	% O ₂ <u>5.1</u> %

EPA Method 3 Lab Data Sheet

Orsat Gas Analysis

Page ____ of ____

Project _____ Analyst _____
Test Location _____ An. Date _____
Sampling Date _____ Apparatus _____

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run 1	Zero Point 0.0 ml	Initial Rdg. 0.0 ml	Initial Rdg. 12.6 ml
3	Sample Vol. 100 ml	Final Rdg. 12.6 ml	Final Rdg. 17.9 ml
		Volume CO ₂ 12.6 ml	Volume O ₂ 17.9 ml
		% CO ₂ 12.6 %	% O ₂ 5.3 %
Replicate	Zero Point 0.0 ml	Initial Rdg. 0.0 ml	Initial Rdg. 12.6 ml
	Sample Vol. 100 ml	Final Rdg. 12.6 ml	Final Rdg. 17.9 ml
		Volume CO ₂ 12.6 ml	Volume O ₂ 17.9 ml
		% CO ₂ 12.6 %	% O ₂ 5.3 %
Replicate	Zero Point 0.0 ml	Initial Rdg. 0.0 ml	Initial Rdg. 12.6 ml
	Sample Vol. 100 ml	Final Rdg. 12.6 ml	Final Rdg. 17.9 ml
		Volume CO ₂ 12.6 ml	Volume O ₂ 17.9 ml
		% CO ₂ 12.6 %	% O ₂ 5.3 %
Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
	Sample Vol. _____ ml	Final Rdg. _____ ml	Final Rdg. _____ ml
		Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %
Replicate	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
	Sample Vol. _____ ml	Final Rdg. _____ ml	Final Rdg. _____ ml
		Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %
Replicate	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
	Sample Vol. _____ ml	Final Rdg. _____ ml	Final Rdg. _____ ml
		Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %

Comments: _____

EPA Method 3/3B Lab Summary Sheet

Orsat Gas Analysis

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Project FHR
Test Location FLU STORM
Sampling Date 7-27-11

Analyst Zac Bainville
Analysis Date 7/29
Sample Type ☒ Integrated ☐ Grab

Box 2

1/1

1/2

1/3

Test/ Run	O ₂ Hold Check		Orsat Results		Calculated		QA Check Ranges		
	Field	Lab	%CO ₂	%O ₂	F _o	MW	Criteria	Range	QC Status
Rep 1	—	4.2	13.3	3.9	—	—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			13.3	3.9	—	—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			13.3	3.9	—	—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			13.3	3.9	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1	—	4.3	13.5	3.7	—	—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			13.5	3.7	—	—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			13.5	3.7	—	—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			13.5	3.7	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1	—	5.3	13.5	3.7	—	—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			13.5	3.7	—	—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			13.5	3.7	—	—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			13.5	3.7	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject

QC Checks:

QC Parameter

Calculation

Criterion

Molecular Weight

$0.44 \times \text{CO}_2\% + 0.32 \times \text{O}_2\% + 0.28 \times (100 - \text{CO}_2\% - \text{O}_2\%) = \text{MW}$

M-3: MW Range

$\text{MW}(\text{Rep 1-3}) - \text{MW}(\text{avg}) = \text{MW}(\text{max}\Delta)$

$\leq 0.3 \text{ LB/LB-mole}$ - Report maximum difference

M-3B: F_o

$(20.9 - \text{O}_2\%) \div \text{CO}_2\%$

If combustion source, compare to Method table

M-3B: CO₂ Range

$\text{CO}_2\%(\text{max}) - \text{CO}_2\%(\text{min}) = \text{CO}_2\% \text{ Range}$

$\leq 0.3\% \text{ CO}_2$ when $\text{CO}_2 > 4\%$, $\leq 0.2\%$ when $\leq 4\%$

M-3B: O₂ Range

$\text{O}_2\%(\text{max}) - \text{O}_2\%(\text{min}) = \text{O}_2\% \text{ Range}$

$\leq 0.3\% \text{ O}_2$ when $\text{O}_2 < 15\%$, $\leq 0.2\%$ when $\geq 15\%$

Pace: O₂ Hold

$\text{Field O}_2 - \text{Lab O}_2 = \text{Hold Range}$

$\leq 0.3\% \text{ O}_2$

EPA Method 3 Lab Data Sheet

Orsat Gas Analysis

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Project PMN
Test Location PELL STON
Sampling Date 7-27-11

Analyst ZAL BRADLEY
An. Date 7/29/11
Apparatus 31507

Apparatus Check (Ambient)		Apparatus Leak Check - Pos. _____ Neg. _____	
Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>0</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml
		Final Rdg. <u>0.0</u> ml	Final Rdg. <u>20.9</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>0.0</u> ml	Volume O ₂ <u>20.9</u> ml
		% CO ₂ <u>0.0</u> %	% O ₂ <u>20.9</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>1</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.3</u> ml
		Final Rdg. <u>13.3</u> ml	Final Rdg. <u>17.2</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.3</u> ml	Volume O ₂ <u>3.9</u> ml
		% CO ₂ <u>13.3</u> %	% O ₂ <u>3.9</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.3</u> ml
		Final Rdg. <u>13.3</u> ml	Final Rdg. <u>17.2</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.3</u> ml	Volume O ₂ <u>3.9</u> ml
		% CO ₂ <u>13.3</u> %	% O ₂ <u>3.9</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.3</u> ml
		Final Rdg. <u>13.3</u> ml	Final Rdg. <u>17.2</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.3</u> ml	Volume O ₂ <u>3.9</u> ml
		% CO ₂ <u>13.3</u> %	% O ₂ <u>3.9</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>2</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.5</u> ml
		Final Rdg. <u>13.5</u> ml	Final Rdg. <u>17.2</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.5</u> ml	Volume O ₂ <u>3.7</u> ml
		% CO ₂ <u>13.5</u> %	% O ₂ <u>3.7</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.5</u> ml
		Final Rdg. <u>13.5</u> ml	Final Rdg. <u>17.2</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.5</u> ml	Volume O ₂ <u>3.7</u> ml
		% CO ₂ <u>13.5</u> %	% O ₂ <u>3.7</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.5</u> ml
		Final Rdg. <u>13.5</u> ml	Final Rdg. <u>17.2</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.5</u> ml	Volume O ₂ <u>3.7</u> ml
		% CO ₂ <u>13.5</u> %	% O ₂ <u>3.7</u> %

EPA Method 3 Lab Data Sheet

Orsat Gas Analysis

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Project _____ Analyst _____
Test Location _____ An. Date _____
Sampling Date _____ Apparatus _____

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run 1	Zero Point 0.0 ml	Initial Rdg. 0.0 ml	Initial Rdg. 13.5 ml
3	Sample Vol. 100 ml	Final Rdg. 13.5 ml	Final Rdg. 12.2 ml
		Volume CO ₂ 13.5 ml	Volume O ₂ 3.7 ml
		% CO ₂ 13.5 %	% O ₂ 3.7 %
Replicate	Zero Point 0.0 ml	Initial Rdg. 0.0 ml	Initial Rdg. 13.5 ml
	Sample Vol. 100 ml	Final Rdg. 13.5 ml	Final Rdg. 12.2 ml
		Volume CO ₂ 13.5 ml	Volume O ₂ 3.7 ml
		% CO ₂ 13.5 %	% O ₂ 3.7 %
Replicate	Zero Point 0.0 ml	Initial Rdg. 0.0 ml	Initial Rdg. 13.5 ml
	Sample Vol. 100 ml	Final Rdg. 13.5 ml	Final Rdg. 12.2 ml
		Volume CO ₂ 13.5 ml	Volume O ₂ 3.7 ml
		% CO ₂ 13.5 %	% O ₂ 3.7 %
Test Run	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
	Sample Vol. _____ ml	Final Rdg. _____ ml	Final Rdg. _____ ml
		Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %
Replicate	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
	Sample Vol. _____ ml	Final Rdg. _____ ml	Final Rdg. _____ ml
		Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %
Replicate	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
	Sample Vol. _____ ml	Final Rdg. _____ ml	Final Rdg. _____ ml
		Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %

Comments: _____

EPA Method 3/3B Lab Summary Sheet

Orsat Gas Analysis

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Project FHR
Test Location FLC SMN
Sampling Date 7/28/11 + 7/29/11

Analyst Zac Bainville
Analysis Date 7/29
Sample Type ☒ Integrated ☐ Grab

Test/ Run	O ₂ Hold Check		Orsat Results		Calculated		QA Check Ranges		
	Field	Lab	%CO ₂	%O ₂	F _o	MW	Criteria	Range	QC Status
Rep 1		11.1	5.6	13.4		—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			5.6	13.4		—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			5.6	13.4		—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			5.6	13.4	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1	—	4.4	13.8	4.2		—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			13.2	4.2		—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			13.2	4.0		—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			13.4	4.2	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1	—	4.5	13.5	4.3		—	Hold	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2			13.5	4.5		—	%CO ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3			13.5	4.4		—	%O ₂	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg			13.5	4.4	—	—	MW _(maxΔ)	—	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 1							Hold		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 2							%CO ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Rep 3							%O ₂		<input type="checkbox"/> Accept <input type="checkbox"/> Reject
Avg							MW _(maxΔ)		<input type="checkbox"/> Accept <input type="checkbox"/> Reject

QC Checks:

QC Parameter

Calculation

Criterion

Molecular Weight

$0.44 \times \text{CO}_2\% + 0.32 \times \text{O}_2\% + 0.28 \times (100 - \text{CO}_2\% - \text{O}_2\%) = \text{MW}$

M-3: MW Range

$\text{MW}(\text{Rep 1-3}) - \text{MW}(\text{avg}) = \text{MW}(\text{max}\Delta)$

$\leq 0.3 \text{ LB/LB-mole}$ - Report maximum difference

M-3B: F_o

$(20.9 - \text{O}_2\%) \div \text{CO}_2\%$

If combustion source, compare to Method table

M-3B: CO₂ Range

$\text{CO}_2\%(\text{max}) - \text{CO}_2\%(\text{min}) = \text{CO}_2\% \text{ Range}$

$\leq 0.3\% \text{ CO}_2$ when $\text{CO}_2 > 4\%$, $\leq 0.2\%$ when $\leq 4\%$

M-3B: O₂ Range

$\text{O}_2\%(\text{max}) - \text{O}_2\%(\text{min}) = \text{O}_2\% \text{ Range}$

$\leq 0.3\% \text{ O}_2$ when $\text{O}_2 < 15\%$, $\leq 0.2\%$ when $\geq 15\%$

Pace: O₂ Hold

$\text{Field O}_2 - \text{Lab O}_2 = \text{Hold Range}$

$\leq 0.3\% \text{ O}_2$



EPA Method 3 Lab Data Sheet

Orsat Gas Analysis

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Project FHR
 Test Location FLU 5TH
 Sampling Date 7/28/11 & 7/29/11

Analyst Zac Bainville
 An. Date 7/29/11
 Apparatus 39507

Box 4

Apparatus Check (Ambient)		Apparatus Leak Check - Pos. _____ Neg. _____	
Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>1</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml
		Final Rdg. <u>0.0</u> ml	Final Rdg. <u>20.9</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>0.0</u> ml	Volume O ₂ <u>20.9</u> ml
		% CO ₂ <u>0.0</u> %	% O ₂ <u>20.9</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>1</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>5.6</u> ml
		Final Rdg. <u>5.6</u> ml	Final Rdg. <u>19.0</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>5.6</u> ml	Volume O ₂ <u>13.4</u> ml
		% CO ₂ <u>5.6</u> %	% O ₂ <u>13.4</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>5.6</u> ml
		Final Rdg. <u>5.6</u> ml	Final Rdg. <u>19.0</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>5.6</u> ml	Volume O ₂ <u>13.4</u> ml
		% CO ₂ <u>5.6</u> %	% O ₂ <u>13.4</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>5.6</u> ml
		Final Rdg. <u>5.6</u> ml	Final Rdg. <u>19.0</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>5.6</u> ml	Volume O ₂ <u>13.4</u> ml
		% CO ₂ <u>5.6</u> %	% O ₂ <u>13.4</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>2</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.8</u> ml
		Final Rdg. <u>13.8</u> ml	Final Rdg. <u>18.0</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.8</u> ml	Volume O ₂ <u>4.2</u> ml
		% CO ₂ <u>13.8</u> %	% O ₂ <u>4.2</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.2</u> ml
		Final Rdg. <u>13.2</u> ml	Final Rdg. <u>17.4</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.2</u> ml	Volume O ₂ <u>4.2</u> ml
		% CO ₂ <u>13.2</u> %	% O ₂ <u>4.2</u> %

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.2</u> ml
		Final Rdg. <u>13.2</u> ml	Final Rdg. <u>17.2</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.2</u> ml	Volume O ₂ <u>4.0</u> ml
		% CO ₂ <u>13.2</u> %	% O ₂ <u>4.0</u> %

EPA Method 3 Lab Data Sheet

Orsat Gas Analysis

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Project _____ Analyst _____
Test Location _____ An. Date _____
Sampling Date _____ Apparatus _____

Sample	Aliquot Volume	Carbon Dioxide	Oxygen
Test Run <u>1</u>	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.5</u> ml
		Final Rdg. <u>13.5</u> ml	Final Rdg. <u>18.8</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.5</u> ml	Volume O ₂ <u>4.3</u> ml
		% CO ₂ <u>13.5</u> %	% O ₂ <u>4.3</u> %
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.5</u> ml
		Final Rdg. <u>13.5</u> ml	Final Rdg. <u>18.0</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.5</u> ml	Volume O ₂ <u>4.5</u> ml
		% CO ₂ <u>13.5</u> %	% O ₂ <u>4.5</u> %
Replicate	Zero Point <u>0.0</u> ml	Initial Rdg. <u>0.0</u> ml	Initial Rdg. <u>13.6</u> ml
		Final Rdg. <u>13.6</u> ml	Final Rdg. <u>18.0</u> ml
	Sample Vol. <u>100</u> ml	Volume CO ₂ <u>13.6</u> ml	Volume O ₂ <u>4.4</u> ml
		% CO ₂ <u>13.6</u> %	% O ₂ <u>4.4</u> %
Test Run _____	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
		Final Rdg. _____ ml	Final Rdg. _____ ml
	Sample Vol. _____ ml	Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %
Replicate	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
		Final Rdg. _____ ml	Final Rdg. _____ ml
	Sample Vol. _____ ml	Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %
Replicate	Zero Point _____ ml	Initial Rdg. _____ ml	Initial Rdg. _____ ml
		Final Rdg. _____ ml	Final Rdg. _____ ml
	Sample Vol. _____ ml	Volume CO ₂ _____ ml	Volume O ₂ _____ ml
		% CO ₂ _____ %	% O ₂ _____ %

Comments: _____

Subcontract Laboratory Report

4 August 2011

Jamie Trowbridge
Pace Analytical
1700 Elm Street
Minneapolis, MN 35414

Ph.: 612.759.7510
Email: jamie.trowbridge@pacelabs.com

Subject: Certificate of Results

Dear Jamie;

Attached to this narrative are the analytical results you requested on the sample submitted for the determination of the 17-2, 3, 7, 8-substituted polychlorinated dibenzo-*p*-dioxins and dibenzofurans, and the 12 coplanar polychlorinated biphenyls. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. Sample results are reported on an 'as is' basis and relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	FHR-ICR
AP Project No.	A3402
Analytical Protocol	WHO-2+ (Methods 8290/1613 and 1668B)
No. Samples Submitted	7
No. Samples Analyzed	6 (T1 R00 on hold)
No. Laboratory Method Blanks	1
No. BCS ₃	1
No. Outstanding Samples	0
Date Received	29-Jul-2011
Condition Received	see below
Temperature upon Receipt (C)	5 (traps/filters); 5 (solvents)
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	none
Analytical Difficulties	none

QC Annotations:

1. Please see Appendix A & B for data qualifier information.
2. The acetone/CH₂CL₂ solvent for sample T1 R2 (A3402_003) arrived broken. As a result, and according to your instructions, in order to determine the contribution of the solvent rinses to dioxin/furan totals and TEQs, the acetone/CH₂CL₂ solvents for samples T1 R1 (A3402_006) and T1 R3 (A3402_007) were analyzed and are reported as separate samples.
3. Due to the presence of an unknown quantitative interference within the PCB portion of the sample extracts as well as the mass spectral parameters required to analyze the PCB extracts, some skewing is evident in the PCB portion of the chromatograms. Despite this skewing and the V data flags that resulted due to quantitative interferences, the data, given the nature of isotope dilution methodology, especially for the coplanar (toxic) PCBs which were analyzed with a specific labeled extraction standard (ES), is deemed reliable. The calculated TEQs are not impacted as a result of interferences, peak broadening, etc. Apparent percent recoveries outside of the standard method control limits have been flagged (V) as appropriate on all topsheets (the yellow and white striped pages found at the end of the narrative).

Analytical Perspectives Certification IDs:

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WASHINGTON	C2027
TEXAS (NELAP)	T104704484-10-1
PENNSYLVANIA (NELAP)	68-01849

Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us. Thank you for choosing Analytical Perspectives as part of your analytical support team.

Sincerely,



Kimberly Mace, Ph.D.
Project Scientist

2714 EXCHANGE DRIVE
WILMINGTON, NC 28405
PH.: 910-794-1613

APPENDIX A: DATA QUALIFIERS / DATA ATTRIBUTES

*	The reported concentration exceeds the calibration range (upper point of the calibration curve). ¹
>	Indicates high recoveries. Shown with the numeric value at the top of the range. ¹
B	The analyte is found in the method blank, at a level that is ≤10x the sample concentration.
C	Two or more congeners co-elute. In EDDs C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve).
EMPC	Represents an Estimated Maximum Possible Concentration. EMPC's arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), where there is a co-eluting interference, or where a single ion is utilized for quantitation due to PFK interference.
ETH	Indicates the presence of a diphenyl ether that appears to interfere with the quantitation of a furan. The reported concentration is the maximum.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. ¹
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve).
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
Ra	The new ratio – [Ra] -- for 2,3,7,8-TCDD following the ³⁷ Cl ₄ -2,3,7,8-TCDD correction is shown between squared brackets in the DL column. ¹
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. ¹
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.
X	Indicates results reported from reinjection, refractionation, or repeat analyses.

APPENDIX B: LAB ID IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.

¹Denotes data qualifiers/attributes whose use will be phased out over time

A3402 - TEQ
Project ID: FHR-ICR

Sample Summary Part 1		ANALYTICAL PERSPECTIVES				Method WHO-2	
Analyte	Method Blank	T1 R0	T1 R1	T1 R2	T1 R3	T1 R1 Acetone/MeCl2	T1 R3 Acetone/MeCl2
	pg	pg	pg	pg	pg	pg	pg
2,3,7,8-TCDD	(1.99)	(2.3)	(1.92)	(1.54)	(1.44)	(2.54)	(2.46)
1,2,3,7,8-PeCDD	(2.26)	(2.65)	(2.47)	(1.87)	(2.09)	(2.6)	(2.95)
1,2,3,4,7,8-HxCDD	(1.89)	(2.15)	(1.56)	(1.66)	(1.57)	(2.55)	(2.43)
1,2,3,6,7,8-HxCDD	(1.96)	(2.18)	(1.59)	(1.63)	(1.65)	(2.47)	(2.6)
1,2,3,7,8,9-HxCDD	(2.03)	(2.29)	(1.67)	[1.7]	2.05	(2.62)	(2.94)
1,2,3,4,6,7,8-HpCDD	(3.28)	(3.57)	6.56	[2.94]	5.14	[5.01]	8.38
OCDD	13.3	17.2	21.3	14.6	25.2	17.9	26.7
2,3,7,8-TCDF	(1.68)	(1.73)	3.12	2.42	4	(2.04)	(1.84)
1,2,3,7,8-PeCDF	(1.61)	(1.6)	[1.25]	(1.38)	[1.87]	(1.93)	(2.04)
2,3,4,7,8-PeCDF	(1.63)	(1.43)	[1.96]	(1.34)	[1.24]	(1.77)	(1.87)
1,2,3,4,7,8-HxCDF	(1.19)	(1.12)	2.01	0.804	1.61	(1.47)	[2.18]
1,2,3,6,7,8-HxCDF	(1.1)	(1.05)	1.76	(0.754)	1.24	[1.4]	2.91
2,3,4,6,7,8-HxCDF	(1.12)	(1.05)	[2.1]	[0.838]	[1.32]	(1.48)	2.94
1,2,3,7,8,9-HxCDF	(1.52)	(1.45)	(1.14)	(0.986)	[1.52]	(1.88)	(1.86)
1,2,3,4,6,7,8-HpCDF	(1.56)	[1.9]	7.34	2.02	4.34	3.88	8.29
1,2,3,4,7,8,9-HpCDF	(2.43)	(2.11)	(1.82)	(1.38)	(1.76)	(2.65)	(2.69)
OCDF	(5.65)	(6.53)	7.37	(4.05)	7.36	(5.82)	[5.7]
ITEF TEQ (ND=0; EMPC=0)	0.0133	0.0172	0.856	0.357	1.02	0.0566	0.778
ITEF TEQ (ND=0; EMPC=EMPC)	0.0133	0.0361	2.11	0.64	2.01	0.246	1
ITEF TEQ (ND=DL/2; EMPC=0)	2.68	2.92	3.18	2.36	2.81	3.3	3.94
ITEF TEQ (ND=DL/2; EMPC=EMPC)	2.68	2.93	3.99	2.51	3.43	3.4	4.08
ITEF TEQ (ND=DL; EMPC=EMPC)	5.35	5.83	5.88	4.37	4.84	6.55	7.16
PCB-77 33'44'-TeCB	(2.17)	13.4	196	131	303	71.5	81.3
PCB-81 344'5'-TeCB	(2.03)	(2.9)	(12.5)	(10.4)	(20.9)	(16.6)	(13.1)
PCB-105 233'44'-PeCB	(4.36)	14.5	458	265	747	132	125
PCB-114 2344'5'-PeCB	(3.98)	(3.84)	63.5	38.7	[95.9]	[18.6]	16.3
PCB-118 23'44'5'-PeCB	[6.48]	29.8	1010	544	1700	265	261
PCB-123 2'344'5'-PeCB	(3.51)	(3.67)	(11)	(14.7)	(22.7)	(14.4)	(11)
PCB-126 33'44'5'-PeCB	(5.31)	(5.45)	(13.4)	(17.2)	(22.7)	(22.1)	(16.6)
PCB-156 233'44'5'-HxCB	(3.08)	(4.03)	52.9	34.8	76.4	[19.2]	21
PCB-157 233'44'5'-HxCB	(3.24)	(4.22)	10.9	(7.44)	18.9	(7.58)	(8.13)
PCB-167 23'44'55'-HxCB	(2.57)	(3.43)	29.1	16	[43.1]	(6.75)	10.1
PCB-169 33'44'55'-HxCB	(4.3)	(5.61)	(8.22)	(9.51)	(13.6)	(12.9)	(11.2)
PCB-189 233'44'55'-HpCB	(7.4)	(8.31)	(14.7)	(19.4)	(28.3)	(14.3)	(13.1)
ITEF + WHO-2005							
PCDD/F + PCB TEQs (ND = 0)	0.0133	0.0198	0.925	0.397	1.12	0.0757	0.799
PCDD/F + PCB TEQs (ND = DL / 2)	3.02	3.28	4.04	3.41	4.26	4.62	4.96
PCDD/F + PCB TEQs (ND = DL)	6.02	6.53	7.16	6.42	7.39	9.16	9.13
ITEF + WHO-1998							
PCDD/F + PCB TEQs (ND = 0)	0.0133	0.0229	1.09	0.488	1.34	0.104	0.843
PCDD/F + PCB TEQs (ND = DL / 2)	2.98	3.23	4.12	3.41	4.34	4.52	4.9
PCDD/F + PCB TEQs (ND = DL)	5.94	6.43	7.16	6.32	7.35	8.94	8.95
Checkcode	230-984-PVF	885-659-FQC	284-222-JBX	391-860-FVC	006-364-CJT	829-408-LBW	925-490-LYY
Lab ID	MB1_8892_W2_SDS	A3402_8892_W2_001	A3402_8892_W2_002	A3402_8892_W2_003	A3402_8892_W2_004	A3402_8892_W2_006	A3402_8892_W2_007

A3402 - WHO-2005-TEQ

Project ID: FHR-ICR

Sample Summary Part 1



Method WHO-2


Analyte	Method Blank	T1 R0	T1 R1	T1 R2	T1 R3	T1 R1 Acetone/MeCl2	T1 R3 Acetone/MeCl2
	pg	pg	pg	pg	pg	pg	pg
2,3,7,8-TCDD	(1.99)	(2.3)	(1.92)	(1.54)	(1.44)	(2.54)	(2.46)
1,2,3,7,8-PeCDD	(2.26)	(2.65)	(2.47)	(1.87)	(2.09)	(2.6)	(2.95)
1,2,3,4,7,8-HxCDD	(1.89)	(2.15)	(1.56)	(1.66)	(1.57)	(2.55)	(2.43)
1,2,3,6,7,8-HxCDD	(1.96)	(2.18)	(1.59)	(1.63)	(1.65)	(2.47)	(2.6)
1,2,3,7,8,9-HxCDD	(2.03)	(2.29)	(1.67)	[1.7]	2.05	(2.62)	(2.94)
1,2,3,4,6,7,8-HpCDD	(3.28)	(3.57)	6.56	[2.94]	5.14	[5.01]	8.38
OCDD	13.3	17.2	21.3	14.6	25.2	17.9	26.7
2,3,7,8-TCDF	(1.68)	(1.73)	3.12	2.42	4	(2.04)	(1.84)
1,2,3,7,8-PeCDF	(1.61)	(1.6)	[1.25]	(1.38)	[1.87]	(1.93)	(2.04)
2,3,4,7,8-PeCDF	(1.63)	(1.43)	[1.96]	(1.34)	[1.24]	(1.77)	(1.87)
1,2,3,4,7,8-HxCDF	(1.19)	(1.12)	2.01	0.804	1.61	(1.47)	[2.18]
1,2,3,6,7,8-HxCDF	(1.1)	(1.05)	1.76	(0.754)	1.24	[1.4]	2.91
2,3,4,6,7,8-HxCDF	(1.12)	(1.05)	[2.1]	[0.838]	[1.32]	(1.48)	2.94
1,2,3,7,8,9-HxCDF	(1.52)	(1.45)	(1.14)	(0.986)	[1.52]	(1.88)	(1.86)
1,2,3,4,6,7,8-HpCDF	(1.56)	[1.9]	7.34	2.02	4.34	3.88	8.29
1,2,3,4,7,8,9-HpCDF	(2.43)	(2.11)	(1.82)	(1.38)	(1.76)	(2.65)	(2.69)
OCDF	(5.65)	(6.53)	7.37	(4.05)	7.36	(5.82)	[5.7]
WHO-2005 TEQ (ND=0; EMPC=0)	0.00399	0.00515	0.836	0.347	0.994	0.0441	0.759
WHO-2005 TEQ (ND=0; EMPC=EMPC)	0.00399	0.0241	1.67	0.63	1.71	0.234	0.979
WHO-2005 TEQ (ND=DL/2; EMPC=0)	3.06	3.41	3.62	2.67	3.19	3.74	4.45
WHO-2005 TEQ (ND=DL/2; EMPC=EMPC)	3.06	3.42	4.17	2.81	3.64	3.84	4.59
WHO-2005 TEQ (ND=DL; EMPC=EMPC)	6.11	6.81	6.68	5	5.58	7.44	8.2
Checkcode	230-984-PVF	885-659-FQC	284-222-JBX	391-860-FVC	006-364-CJT	829-408-LBW	925-490-LYY
Lab ID	MB1_8892_W2_SDS	A3402_8892_W2_001	A3402_8892_W2_002	A3402_8892_W2_003	A3402_8892_W2_004	A3402_8892_W2_006	A3402_8892_W2_007

A3402 - Totals

Project ID: FHR-ICR

Sample Summary Part 2		ANALYTICAL PERSPECTIVES				Method WHO-2	
Analyte	Method Blank	T1 R0	T1 R1	T1 R2	T1 R3	T1 R1 Acetone/MeCl2	T1 R3 Acetone/MeCl2
	pg	pg	pg	pg	pg	pg	pg
Totals							
TCDDs	0	0	7.83	10.7	16.8	2.26	0
PeCDDs	0	0	7.45	4.58	0	0	0
HxCDDs	0	0	4.31	0	6.13	3.15	0
HpCDDs	0	0	15.6	3.83	11	0	17.4
OCDD	13.3	17.2	21.3	14.6	25.2	17.9	26.7
TCDFs	0	0	31.1	27.9	50.3	3.41	3.89
PeCDFs	0	0	9.47	0	9.15	0	0
HxCDFs	0	0	12.3	1.84	4.44	0	14.7
HpCDFs	0	0	7.34	2.02	5.89	3.88	8.29
OCDF	0	0	7.37	0	7.36	0	5.7
Total PCDD/Fs (ND=0; EMPC=0)	13.3	17.2	124	65.4	136	30.6	71
Total PCDD/Fs (ND=0; EMPC=EMPC)	13.3	21.4	163	81	195	45.9	104
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	46.2	54.6	175	97.6	203	77.7	128
Total 2378s (ND=0; EMPC=0)	13.3	17.2	49.4	19.8	50.9	21.8	49.2
Total 2378s (ND=0.5; EMPC=0)	29.7	34.5	57.4	30.5	57	39.8	64.4
Total 2378s (ND=1; EMPC=0)	46.2	51.8	65.4	41.3	63.2	57.9	79.6
Total 2378s (ND=0; EMPC=1)	13.3	19	54.8	25.3	56.8	28.2	57.1
Total 2378s (ND=0.5; EMPC=1)	29.7	35.7	60.8	33.6	61.1	44.1	69
Total 2378s (ND=1; EMPC=1)	46.2	52.3	66.9	41.9	65.3	60	80.8
Checkcode	230-984-PVF	885-659-FQC	284-222-JBX	391-860-FVC	006-364-CJT	829-408-LBW	925-490-LYY
Lab ID	MB1_8892_W2_SDS	A3402_8892_W2_001	A3402_8892_W2_002	A3402_8892_W2_003	A3402_8892_W2_004	A3402_8892_W2_006	A3402_8892_W2_007

A3402 - DLs
Project ID: FHR-ICR

Sample Summary Part 5						Method WHO-2	
Analyte	Method Blank	T1 R0	T1 R1	T1 R2	T1 R3	T1 R1 Acetone/MeCl2	T1 R3 Acetone/MeCl2
	pg	pg	pg	pg	pg	pg	pg
2,3,7,8-TCDD	1.99	2.3	1.92	1.54	1.44	2.54	2.46
1,2,3,7,8-PeCDD	2.26	2.65	2.47	1.87	2.09	2.6	2.95
1,2,3,4,7,8-HxCDD	1.89	2.15	1.56	1.66	1.57	2.55	2.43
1,2,3,6,7,8-HxCDD	1.96	2.18	1.59	1.63	1.65	2.47	2.6
1,2,3,7,8,9-HxCDD	2.03	2.29	1.67	1.79	1.68	2.62	2.94
1,2,3,4,6,7,8-HpCDD	3.28	3.57	2.79	2.33	1.81	2.86	2.8
OCDD	6	4.72	4.98	4.05	3.44	6.64	5.48
2,3,7,8-TCDF	1.68	1.73	1.4	1.26	1.5	2.04	1.84
1,2,3,7,8-PeCDF	1.61	1.6	1.54	1.38	1.09	1.93	2.04
2,3,4,7,8-PeCDF	1.63	1.43	1.43	1.34	1.08	1.77	1.87
1,2,3,4,7,8-HxCDF	1.19	1.12	0.866	0.752	0.746	1.47	1.55
1,2,3,6,7,8-HxCDF	1.1	1.05	0.856	0.754	0.702	1.47	1.51
2,3,4,6,7,8-HxCDF	1.12	1.05	0.855	0.744	0.71	1.48	1.51
1,2,3,7,8,9-HxCDF	1.52	1.45	1.14	0.986	0.925	1.88	1.86
1,2,3,4,6,7,8-HpCDF	1.56	1.43	1.13	0.88	1.21	1.67	1.82
1,2,3,4,7,8,9-HpCDF	2.43	2.11	1.82	1.38	1.76	2.65	2.69
OCDF	5.65	6.53	4.94	4.05	4.35	5.82	5.18
Total TCDD	1.99	2.3	1.92	1.54	1.44	2.54	2.46
Total PeCDD	2.26	2.65	2.47	1.87	2.09	2.6	2.95
Total HxCDD	1.96	2.2	1.6	1.69	1.63	2.54	2.65
Total HpCDD	3.28	3.57	2.79	2.33	1.81	2.86	2.8
Total TCDF	1.68	1.73	1.4	1.26	1.5	2.04	1.84
Total PeCDF	1.62	1.52	1.48	1.36	1.09	1.85	1.95
Total HxCDF	1.22	1.15	0.921	0.802	0.764	1.56	1.6
Total HpCDF	1.94	1.74	1.44	1.1	1.46	2.1	2.21
PCB-77 33'44'-TeCB	2.17	3.09	13.8	10.3	20.7	18	14
PCB-81 344'5'-TeCB	2.03	2.9	12.5	10.4	20.9	16.6	13.1
PCB-105 233'44'-PeCB	4.36	4.24	11.2	14.9	21.1	17.6	13.4
PCB-114 2344'5'-PeCB	3.98	3.84	12	17.3	27.3	15.9	12.3
PCB-118 23'44'5'-PeCB	2.69	2.73	7.34	9.41	16.1	10.4	7.8
PCB-123 2'344'5'-PeCB	3.51	3.67	11	14.7	22.7	14.4	11
PCB-126 33'44'5'-PeCB	5.31	5.45	13.4	17.2	22.7	22.1	16.6
PCB-156 233'44'5'-HxCB	3.08	4.03	6.96	8.24	11.8	7.92	7.63
PCB-157 233'44'5'-HxCB	3.24	4.22	6.47	7.44	10.9	7.58	8.13
PCB-167 23'44'55'-HxCB	2.57	3.43	6.66	7.6	12.2	6.75	7.11
PCB-169 33'44'55'-HxCB	4.3	5.61	8.22	9.51	13.6	12.9	11.2
PCB-189 233'44'55'-HpCB	7.4	8.31	14.7	19.4	28.3	14.3	13.1
Checkcode	230-984-PVF	885-659-FQC	284-222-JBX	391-860-FVC	006-364-CJT	829-408-LBW	925-490-LYY
Lab ID	MB1_8892_W2_SDS	A3402_8892_W2_001	A3402_8892_W2_002	A3402_8892_W2_003	A3402_8892_W2_004	A3402_8892_W2_006	A3402_8892_W2_007

A3402 - Others

Project ID: FHR-ICR

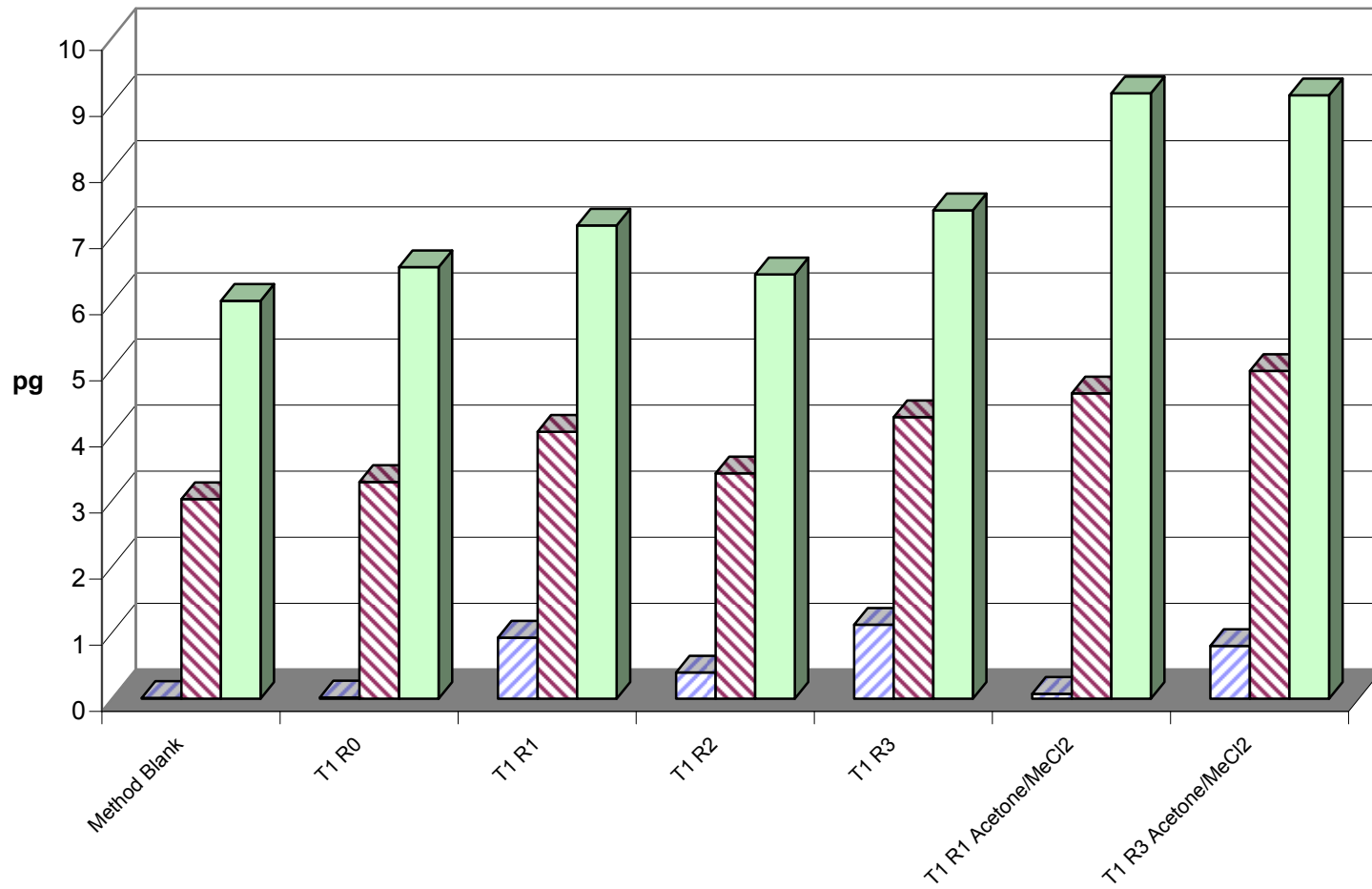
Sample Summary Part 3		ANALYTICAL PERSPECTIVES				Method WHO-2	
Analyte	Method Blank	T1 R0	T1 R1	T1 R2	T1 R3	T1 R1 Acetone/MeCl2	T1 R3 Acetone/MeCl2
	pg	pg	pg	pg	pg	pg	pg
Other PCDD/Fs (ND=0, EMPC=0)							
Other TCDD	0	0	7.83	10.7	16.8	2.26	0
Other PeCDD	0	0	7.45	4.58	0	0	0
Other HxCDD	0	0	4.31	0	4.08	3.15	0
Other HpCDD	0	0	9.08	3.83	5.88	0	9
Other TCDF	0	0	28	25.5	46.3	3.41	3.89
Other PeCDF	0	0	9.47	0	9.15	0	0
Other HxCDF	0	0	8.55	1.03	1.6	0	8.9
Other HpCDF	0	0	0	0	1.55	0	0
Other PCDD/Fs (ND=0, EMPC=EMPC)							
Other TCDD	0	2.32	15	10.7	26.1	2.26	2.7
Other PeCDD	0	0	13.1	6.73	11.1	2.6	8.8
Other HxCDD	0	0	10.8	0	8.67	3.15	11.7
Other HpCDD	0	0	9.08	3.83	5.88	4.33	9
Other TCDF	0	0	39.5	32	63.4	3.41	3.89
Other PeCDF	0	0	12.3	0	17.2	0	0
Other HxCDF	0	0	8.55	2.54	4.19	1.99	11
Other HpCDF	0	0	0	0	1.55	0	0
Checkcode	230-984-PVF	885-659-FQC	284-222-JBX	391-860-FVC	006-364-CJT	829-408-LBW	925-490-LYY
Lab ID	MB1_8892_W2_SDS	A3402_8892_W2_001	A3402_8892_W2_002	A3402_8892_W2_003	A3402_8892_W2_004	A3402_8892_W2_006	A3402_8892_W2_007

ITEF + WHO-2005

Project ID: FHR-ICR

A3402

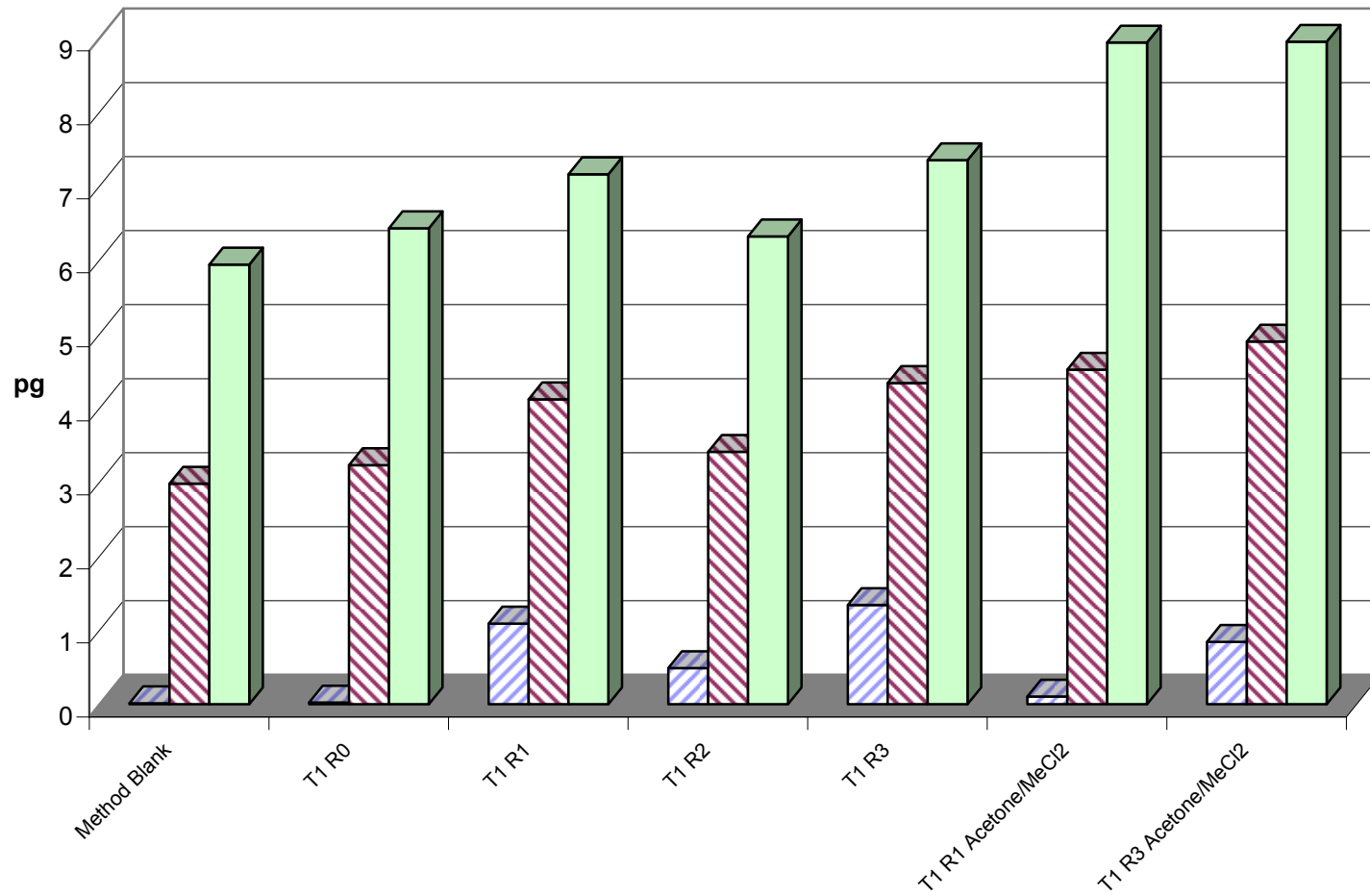
ND=0 ND=DL/2 ND=DL



ITEF + WHO-1998

Project ID: FHR-ICR
A3402

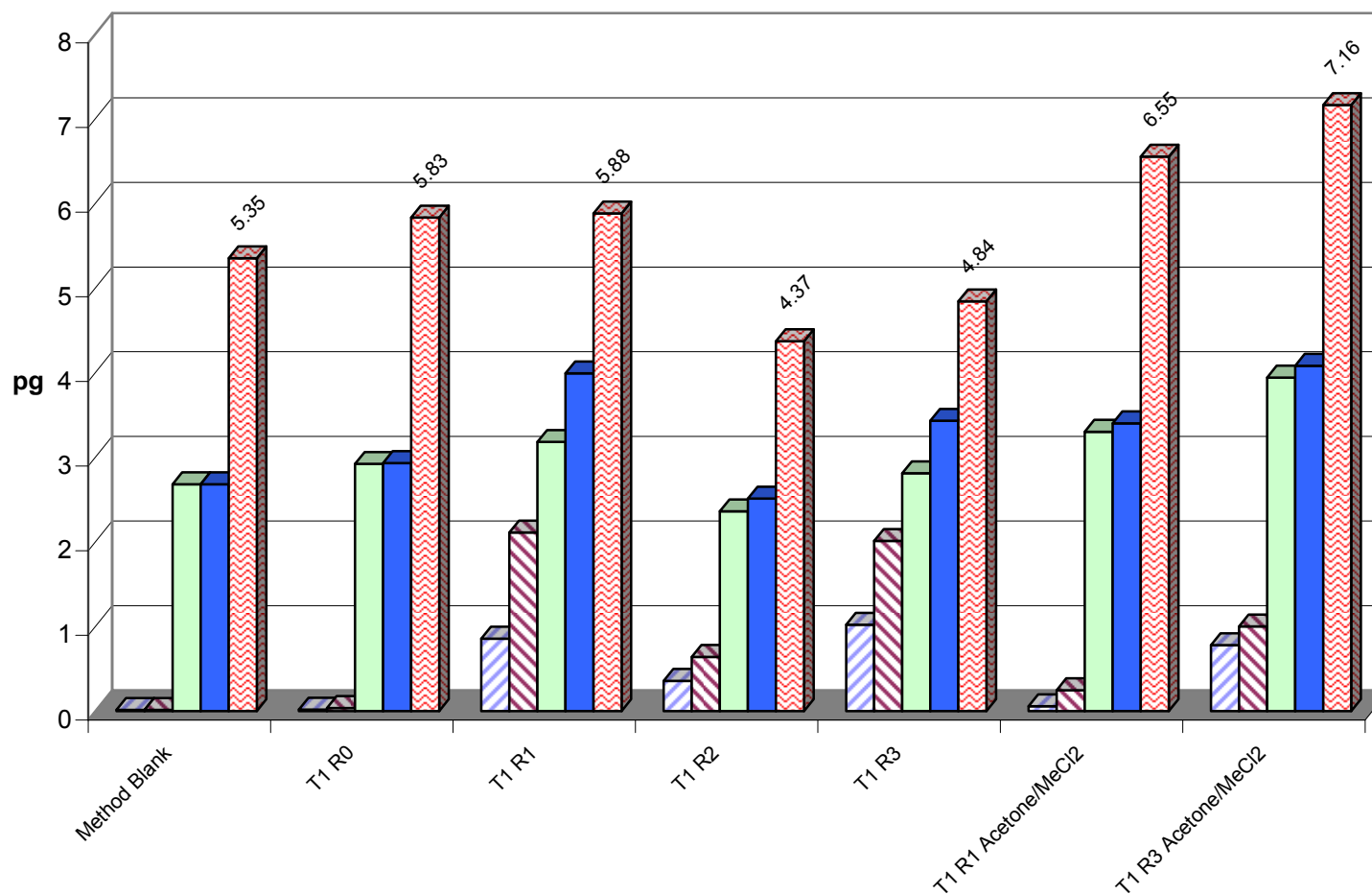
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ITEF-TEQ

Project ID: FHR-ICR
A3402

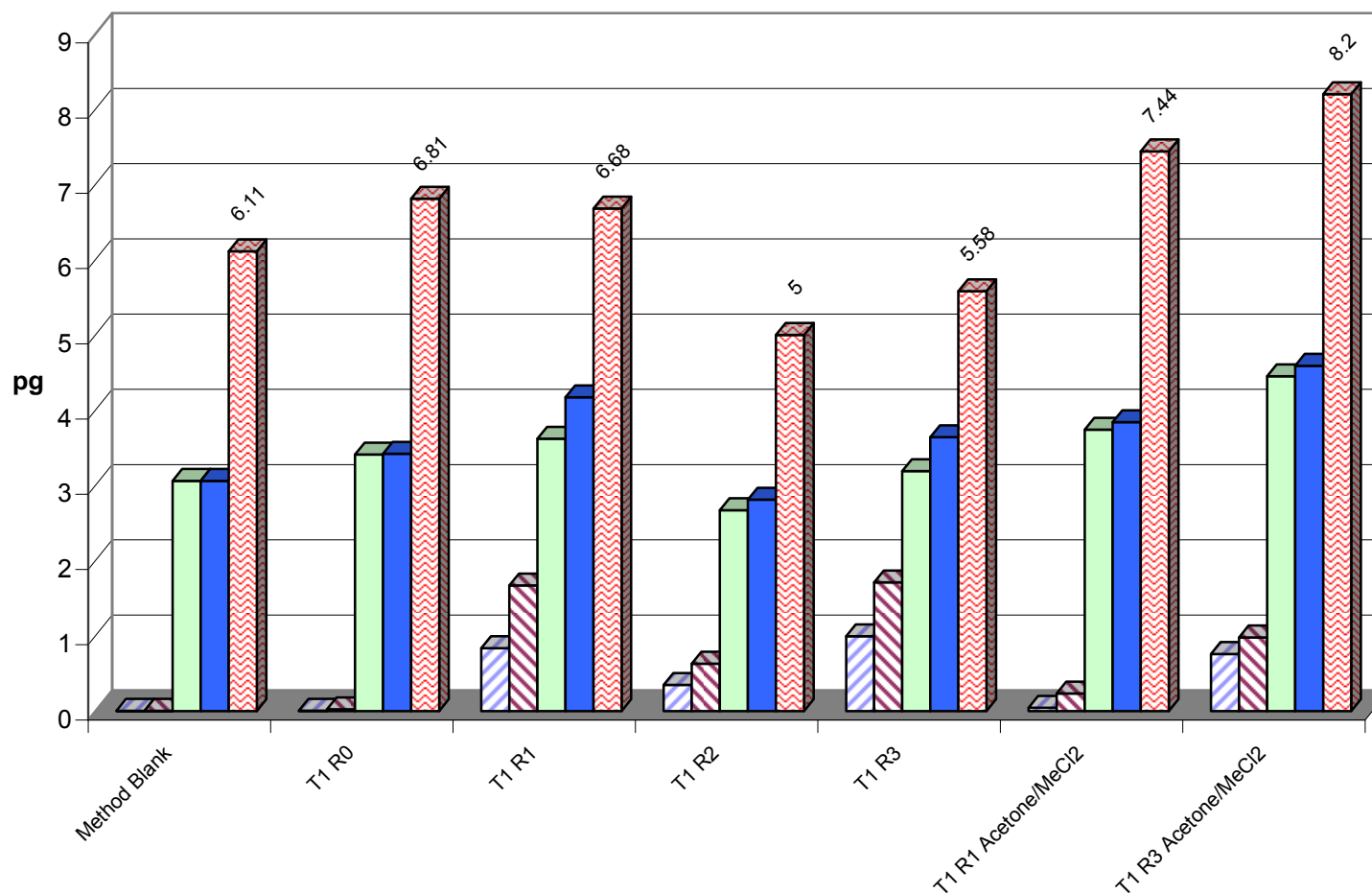
- ND=0; EMPC=0
- ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ND=DL; EMPC=EMPC



WHO-2005-TEQ

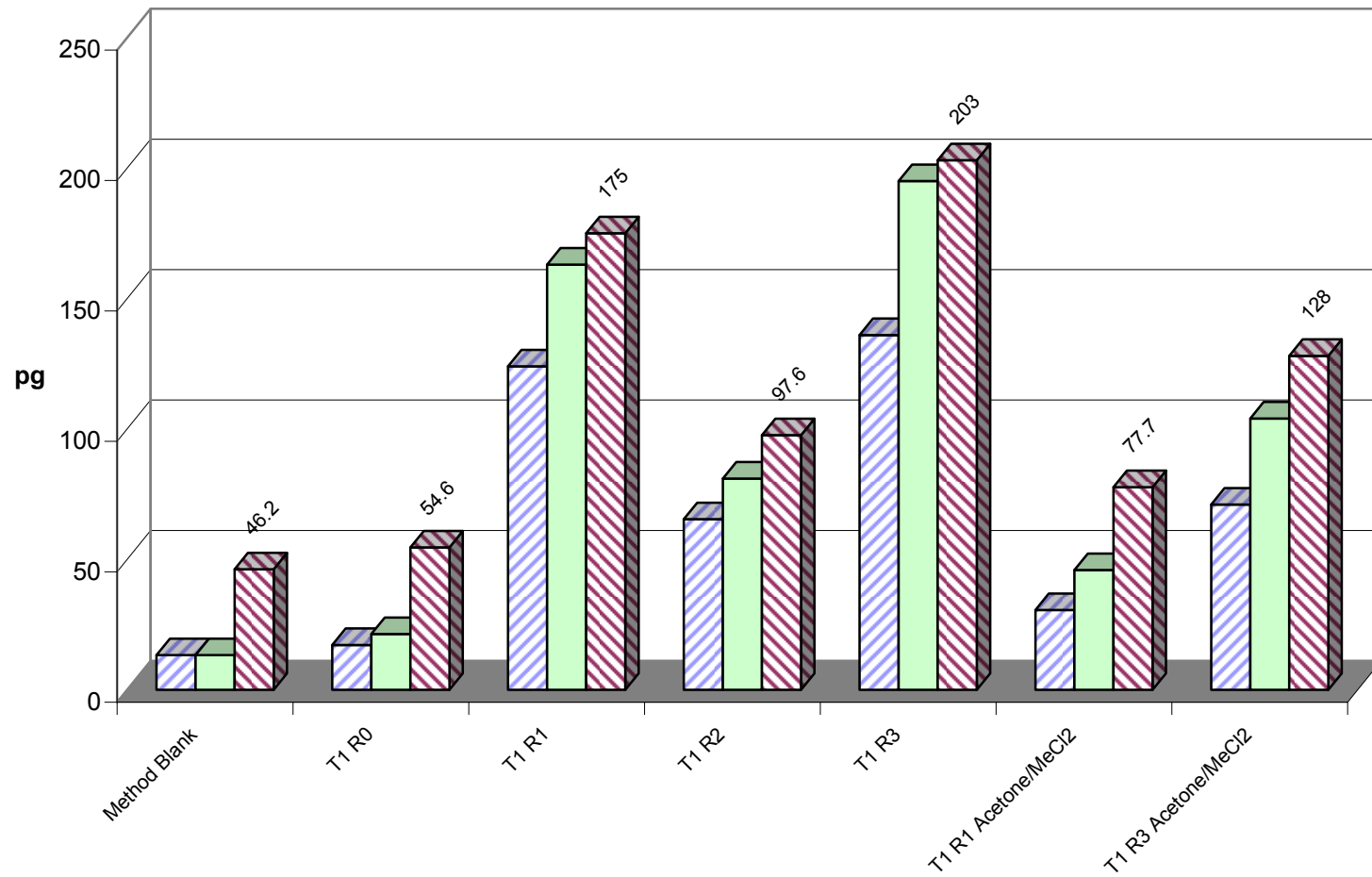
Project ID: FHR-ICR
A3402

- ND=0; EMPC=0
- ▨ ND=0; EMPC=EMPC
- ▨ ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC

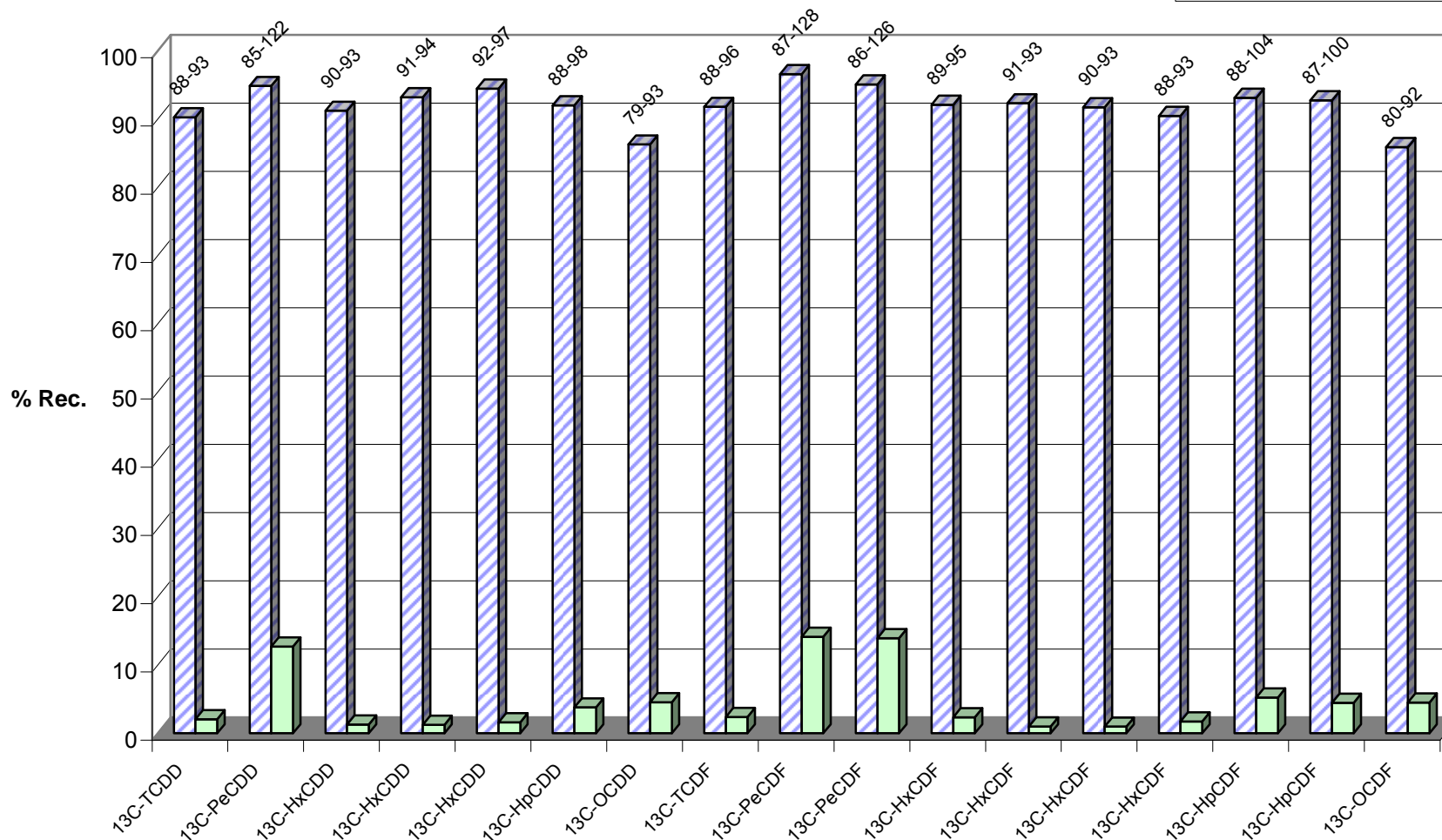
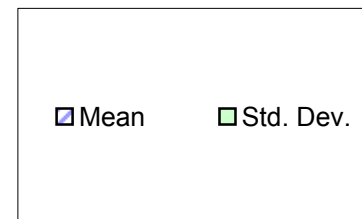


Totals
Project ID: FHR-ICR
A3402

- ▨ Total PCDD/Fs (ND=0; EMPC=0)
- ▨ Total PCDD/Fs (ND=0; EMPC=EMPC)
- ▨ Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)

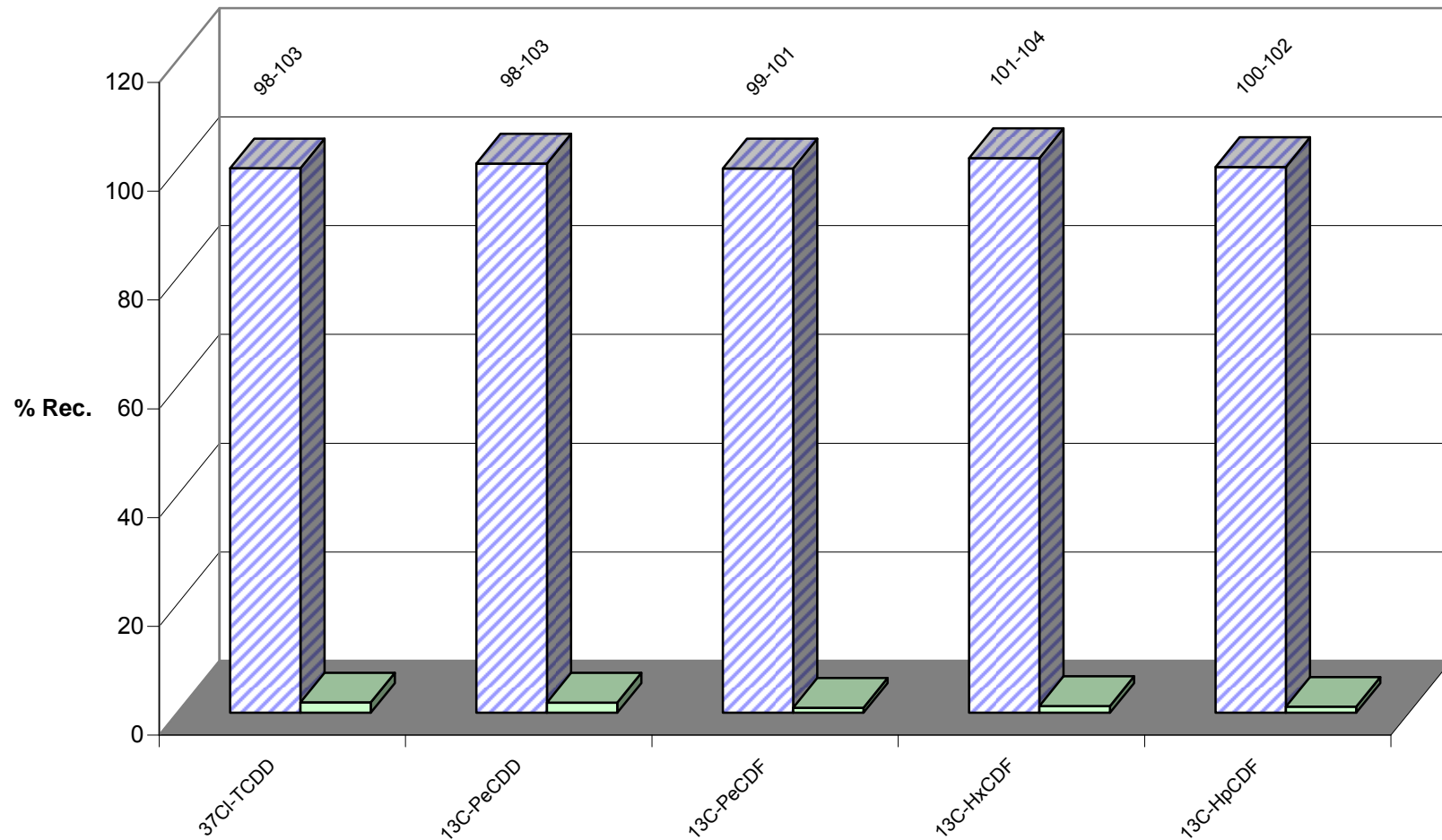


Mean Recoveries of Extraction Standards (N=7)
Project ID: FHR-ICR
A3402



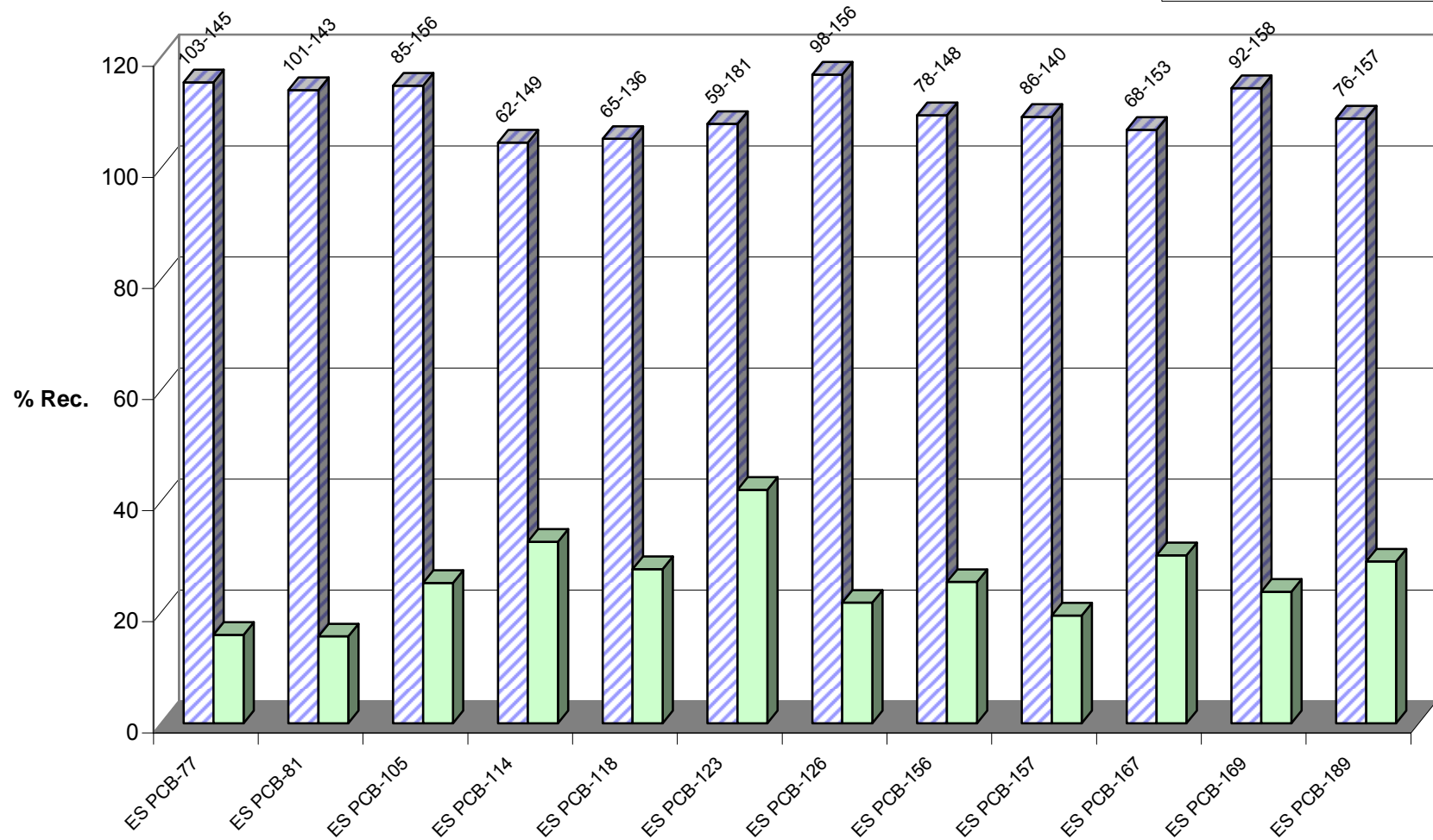
Mean Recoveries of Sampling Standards (N=5)
Project ID: FHR-ICR
A3402

Mean Std. Dev.



Mean Recoveries of Extraction Standards - PCBs (N=7)
Project ID: FHR-ICR
A3402

Mean Std. Dev.



Sample ID: Method Blank

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID	MB1_8892_W2_SDS	Date Extracted:	30-Jul-2011
Date Collected:	n/a			QC Batch No:	8892	Date Analyzed:	02-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	22:23:02
Analyte	Conc. (pg)	DL (pg)	EMPC (pg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	1.99			ES 2378-TCDD	89.4	
12378-PeCDD	ND	2.26			ES 12378-PeCDD	87.6	
123478-HxCDD	ND	1.89			ES 123478-HxCDD	91.5	
123678-HxCDD	ND	1.96			ES 123678-HxCDD	91	
123789-HxCDD	ND	2.03			ES 123789-HxCDD	93	
1234678-HpCDD	ND	3.28			ES 1234678-HpCDD	88.2	
OCDD	13.3			J	ES OCDD	83.6	
2378-TCDF	ND	1.68			ES 2378-TCDF	93.1	
12378-PeCDF	ND	1.61			ES 12378-PeCDF	90.2	
23478-PeCDF	ND	1.63			ES 23478-PeCDF	88.4	
123478-HxCDF	ND	1.19			ES 123478-HxCDF	88.8	
123678-HxCDF	ND	1.1			ES 123678-HxCDF	92.7	
234678-HxCDF	ND	1.12			ES 234678-HxCDF	90.3	
123789-HxCDF	ND	1.52			ES 123789-HxCDF	90.4	
1234678-HpCDF	ND	1.56			ES 1234678-HpCDF	89.8	
1234789-HpCDF	ND	2.43			ES 1234789-HpCDF	87.3	
OCDF	ND	5.65			ES OCDF	84.6	
Totals					Standard	SS/AS Recoveries	
Total TCDD	ND	1.99	ND		SS 37Cl-2378-TCDD	98.6	
Total PeCDD	ND	2.26	ND		SS 12347-PeCDD	103	
Total HxCDD	ND	1.96	ND		SS 12346-PeCDF	99.4	
Total HpCDD	ND	3.28	ND		SS 123469-HxCDF	102	
					SS 1234689-HpCDF	99.6	
Total TCDF	ND	1.68	ND		AS 1368-TCDD	92.3	
Total PeCDF	ND	1.62	ND		AS 1368-TCDF	97.2	
Total HxCDF	ND	1.22	ND				
Total HpCDF	ND	1.94	ND				
Total PCDD/Fs	13.3		13.3				
ITEF TEQs							
TEQ: ND=0	0.0133		0.0133				
TEQ: ND=DL/2	2.68	2.67	2.68				
TEQ: ND=DL	5.35	5.34	5.35				



ANALYTICAL PERSPECTIVES

Tel: +1 910 794-1613 (Fax: -3919); Toll-Free 866 846-8290

2714 Exchange Drive

Wilmington, NC 28405, USA

info@ultratrace.com


www.ultratrace.com

Sample ID: Method Blank

Method WHO-2

Client Data		Sample Data		Laboratory Data	
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	MB1_8892_W2_SDS
Date Collected:	n/a			QC Batch No.:	8892
		Split:	2	Dilution:	-
				Date Received:	29-Jul-2011
				Date Extracted:	30-Jul-2011
				Date Analyzed:	02-Aug-2011
				Time Analyzed:	22:23:02

Tetra-Dioxins	Conc. (pg)	Qualifiers	Penta-Dioxins	Conc. (pg)	Qualifiers	Hexa-Dioxins	Conc (pg)	Qualifiers	Hepta-Dioxins	Conc (pg)	Qualifiers
1368D	(1.99)		12479/12468D	(2.26)		124679/124689D	(1.96)		1234679D	(3.28)	
1379D	(1.99)		12469D	(2.26)		123468D	(1.96)		1234678D	(3.28)	
1369D	(1.99)		12368D	(2.26)		123679/123689D	(1.96)				
1469D	(1.99)		12478D	(2.26)		123469D	(1.96)				
1247D...[4]	(1.99)		12379D	(2.26)		123478D	(1.89)				
1378D	(1.99)		12369D...[3]	(2.26)		123678D	(1.96)				
1268D	(1.99)		12346/12347D	(2.26)		123467D	(1.96)				
1478D	(1.99)		12378D	(2.26)		123789D	(2.03)		Conc.	0	
1279D	(1.99)		12367D	(2.26)					EMPC	0	
1234/1269D	(1.99)		12389D	(2.26)							
1236D	(1.99)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	(1.99)									(pg)	
1239D	(1.99)								OCDD	13.3	J
2378D	(1.99)										
1278D	(1.99)										
1267D	(1.99)										
1289D	(1.99)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	0		EMPC	0		EMPC	0				

 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			ITEF TEQs			Conc.			EMPC		
			TEQ: ND=0			0.0133			0.0133		
			TEQ: ND=DL/2			2.68			2.68		
			TEQ: ND=DL			5.35			5.35		
			Total PCDD/Fs			13.3			13.3		

Checkcode: 230-984-PVF

Report Created: 04-Aug-2011 13:11 Analyst: AP

Sample ID: Method Blank

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Received: 29 Jul 2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: MB1_8892_W2_SDS			Date Extracted: 30 Jul 2011		
Date Collected: n/a			Split: 2			QC Batch No.: 8892			Date Analyzed: 02 Aug 2011		
						Dilution: -			Time Analyzed: 22:23:02		
Tetra-Furans	Conc.	Qualifiers	Penta-Furans	Conc.	Qualifiers	Hexa-Furans	Conc	Qualifiers	Hepta-Furans	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368F	(1.68)		13468/12468F	(2.21)		123468F	(1.22)		1234678F	(1.56)	
1468F	(1.68)		13678F...[3]	(1.62)		124678/134678F	(1.22)		1234679F	(1.94)	
2468F	(1.68)		12368F...[3]	(1.62)		134679F	(1.22)		1234689F	(1.94)	
1346/1246F	(1.68)		14678F	(1.62)		124679F	(1.22)		1234789F	(2.43)	
1347F...[3]	(1.68)		13479F	(1.62)		124689F	(1.22)				
1348F	(1.68)		13469/12479F	(1.62)		123467F	(1.22)				
1248F...[3]	(1.68)		12346F	(1.62)		123478F	(1.19)				
1268F	(1.68)		23468/12469F	(1.62)		123678F	(1.1)				
1467F	(1.68)		12347F	(1.62)		123479F	(1.22)				
1478F	(1.68)		12348F	(1.62)		123469F	(1.22)				
1369/1237F	(1.68)		12378F	(1.61)		123679F	(1.22)				
2467F	(1.68)		12678/12367F	(1.62)		234678F	(1.12)		Conc.	0	
2368F	(1.68)		12379F	(1.62)		234678/123689F	(1.12)		EMPC	0	
1238F...[5]	(1.68)		12679F	(1.62)		123689F	(1.22)				
1278F	(1.68)		23467/12369F	(1.62)		123789F	(1.52)		Octa-Furan	Conc	Qualifiers
1349F	(1.68)		23478F	(1.63)		123789/123489F	(1.52)			(pg)	
1267F	(1.68)		23478/12489F	(1.63)		123489F	(1.22)		OCDF	(5.65)	
2346/1249F	(1.68)		12489F	(1.62)							
2347/1279F	(1.68)		12349F	(1.62)							
2348F	(1.68)		12389F	(1.62)							
2378F	(1.68)										
2367/3467F	(1.68)										
1269F	(1.68)										
1239F	(1.68)										
1289F	(1.68)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	0		EMPC	0		EMPC	0				

Checkcode: 230-984-PVF

Report Created: 04-Aug-2011 13:11 Analyst: AP


Sample ID: Method Blank


Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Service	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	MB1_8892_W2_SDS	Date Extracted:	30-Jul-2011
Date Collected:	n/a	Split:	2	QC Batch No:	8892	Date Analyzed:	02-Aug-2011
				Dilution:	-	Time Analyzed:	22:23:02

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	Recovery
PCB-77 33'44'-TeCB	ND	2.17			ES PCB-77	128
PCB-81 344'5'-TeCB	ND	2.03			ES PCB-81	127
PCB-105 233'44'-PeCB	ND	4.36			ES PCB-105	134
PCB-114 2344'5'-PeCB	ND	3.98			ES PCB-114	130
PCB-118 23'44'5'-PeCB	EMPC		6.48	J	ES PCB-118	131
PCB-123 2'344'5'-PeCB	ND	3.51			ES PCB-123	134
PCB-126 33'44'5'-PeCB	ND	5.31			ES PCB-126	135
PCB-156 233'44'5'-HxCB	ND	3.08			ES PCB-156	131
PCB-157 233'44'5'-HxCB	ND	3.24			ES PCB-157	124
PCB-167 23'44'55'-HxCB	ND	2.57			ES PCB-167	132
PCB-169 33'44'55'-HxCB	ND	4.3			ES PCB-169	134
PCB-189 233'44'55'-HpCB	ND	7.4			ES PCB-189	137

TEQs			WHO-1998			WHO-2005	
ITEF + WHO-2005							
	Conc.	EMPC		Conc.	EMPC	Conc.	EMPC
DF+PCB (ND=0)	0.0133	0.0135	PCB (ND=0)	0	0.000648	0	0.000194
DF+PCB (ND=DL/2)	3.02	3.02	PCB (ND=DL/2)	0.291	0.291	0.331	0.331
DF+PCB (ND=DL)	6.02	6.02	PCB (ND=DL)	0.581	0.582	0.662	0.662
DF+PCB (< J-level=0)	0	0.000194	PCB (< J-level = 0)	0	0.000648	0	0.000194
ITEF + WHO-1998							
DF+PCB (ND=0)	0.0133	0.0139	DF+PCB (ND=0)	0.00133	0.00198	0.00399	0.00418
DF+PCB (ND=DL/2)	2.98	2.98	DF+PCB (ND=DL/2)	3.53	3.53	3.39	3.39
DF+PCB (ND=DL)	5.94	5.94	DF+PCB (ND=DL)	7.05	7.05	6.78	6.78
DF+PCB (< J-level=0)	0	0.000648	DF+PCB (< J-level=0)	0	0.000648	0	0.000194

							
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Sample ID: Method Blank			TEQ Summary		Method WHO-2	
Client Project Name: Pace Analytical Services			Matrix: Air		Lab Sample ID: MB1_8892_W2_SDS	
Client Project ID: FHR-ICR			Weight/Volume: 1		QC Batch No.: 8892	
Date Collected: n/a			Split: 2		Date Extracted: 30-Jul-2011	
Date Received: 29-Jul-2011			Dilution: -		Date Analyzed: 02-Aug-2011 22:23	
Lab Project No: A3402			Units pg			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(1.99)		1.99	(1.99)	(1.99)	(1.99)
12378-PeCDD	(2.26)		2.26	(1.13)	(2.26)	(2.26)
123478-HxCDD	(1.89)		1.89	(0.189)	(0.189)	(0.189)
123678-HxCDD	(1.96)		1.96	(0.196)	(0.196)	(0.196)
123789-HxCDD	(2.03)		2.03	(0.203)	(0.203)	(0.203)
1234678-HpCDD	(3.28)		3.28	(0.0328)	(0.0328)	(0.0328)
OCDD	13.3	J	6	0.0133	0.00133	0.00399
2378-TCDF	(1.68)		1.68	(0.168)	(0.168)	(0.168)
12378-PeCDF	(1.61)		1.61	(0.0805)	(0.0805)	(0.0483)
23478-PeCDF	(1.63)		1.63	(0.815)	(0.815)	(0.489)
123478-HxCDF	(1.19)		1.19	(0.119)	(0.119)	(0.119)
123678-HxCDF	(1.1)		1.1	(0.11)	(0.11)	(0.11)
234678-HxCDF	(1.12)		1.12	(0.112)	(0.112)	(0.112)
123789-HxCDF	(1.52)		1.52	(0.152)	(0.152)	(0.152)
1234678-HpCDF	(1.56)		1.56	(0.0156)	(0.0156)	(0.0156)
1234789-HpCDF	(2.43)		2.43	(0.0243)	(0.0243)	(0.0243)
OCDF	(5.65)		5.65	(0.00565)	(0.000565)	(0.0017)
 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			TEQ Summaries			
			EMPC = 0, ND = 0		0.0133	0.00133
			EMPC = 0, ND = DL / 2		2.68	3.24
			EMPC = 0, ND = DL		5.36	6.47
			EMPC = 0, < J-level = 0		0	0
			EMPC = EMPC, ND = 0		0.0133	0.00133
			EMPC = EMPC, ND = DL / 2		2.68	3.24
			EMPC = EMPC, ND = DL		5.36	6.47
			EMPC = EMPC, < J-level = 0		0	0

Checkcode: 230-984-PVF

AP WHO-2 2010 Rev. A

Sample ID: T1 R0

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID	A3402_8892_W2_001	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011			QC Batch No:	8892	Date Analyzed:	02-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	23:11:09
Analyte	Conc. (pg)	DL (pg)	EMPC (pg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	2.3			ES 2378-TCDD	87.7	
12378-PeCDD	ND	2.65			ES 12378-PeCDD	85.1	
123478-HxCDD	ND	2.15			ES 123478-HxCDD	90.2	
123678-HxCDD	ND	2.18			ES 123678-HxCDD	94.1	
123789-HxCDD	ND	2.29			ES 123789-HxCDD	95.4	
1234678-HpCDD	ND	3.57			ES 1234678-HpCDD	88.2	
OCDD	17.2			J	ES OCDD	85.6	
2378-TCDF	ND	1.73			ES 2378-TCDF	88	
12378-PeCDF	ND	1.6			ES 12378-PeCDF	86.8	
23478-PeCDF	ND	1.43			ES 23478-PeCDF	86.5	
123478-HxCDF	ND	1.12			ES 123478-HxCDF	92.1	
123678-HxCDF	ND	1.05			ES 123678-HxCDF	92.8	
234678-HxCDF	ND	1.05			ES 234678-HxCDF	92.1	
123789-HxCDF	ND	1.45			ES 123789-HxCDF	87.8	
1234678-HpCDF	EMPC		1.9	J	ES 1234678-HpCDF	87.9	
1234789-HpCDF	ND	2.11			ES 1234789-HpCDF	90.5	
OCDF	ND	6.53			ES OCDF	84.5	
Totals					Standard	SS/AS Recoveries	
Total TCDD	ND		2.32		SS 37Cl-2378-TCDD	101	
Total PeCDD	ND	2.65	ND		SS 12347-PeCDD	101	
Total HxCDD	ND	2.2	ND		SS 12346-PeCDF	101	
Total HpCDD	ND	3.57	ND		SS 123469-HxCDF	101	
					SS 1234689-HpCDF	102	
Total TCDF	ND	1.73	ND		AS 1368-TCDD	89.6	
Total PeCDF	ND	1.52	ND		AS 1368-TCDF	90.3	
Total HxCDF	ND	1.15	ND				
Total HpCDF	ND		1.9				
Total PCDD/Fs	17.2		21.4				
ITEF TEQs							
TEQ: ND=0	0.0172		0.0361				
TEQ: ND=DL/2	2.92	2.9	2.93				
TEQ: ND=DL	5.82	5.81	5.83				



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Sample ID: T1 R0

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_001	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011			QC Batch No.:	8892	Date Analyzed:	02-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	23:11:09

Tetra-Dioxins	Conc. (pg)	Qualifiers	Penta-Dioxins	Conc. (pg)	Qualifiers	Hexa-Dioxins	Conc (pg)	Qualifiers	Hepta-Dioxins	Conc (pg)	Qualifiers
1368D	[2.32]	J	12479/12468D	(2.65)		124679/124689D	(2.2)		1234679D	(3.57)	
1379D	(2.3)		12469D	(2.65)		123468D	(2.2)		1234678D	(3.57)	
1369D	(2.3)		12368D	(2.65)		123679/123689D	(2.2)				
1469D	(2.3)		12478D	(2.65)		123469D	(2.2)				
1247D...[4]	(2.3)		12379D	(2.65)		123478D	(2.15)				
1378D	(2.3)		12369D...[3]	(2.65)		123678D	(2.18)				
1268D	(2.3)		12346/12347D	(2.65)		123467D	(2.2)				
1478D	(2.3)		12378D	(2.65)		123789D	(2.29)		Conc.	0	
1279D	(2.3)		12367D	(2.65)					EMPC	0	
1234/1269D	(2.3)		12389D	(2.65)							
1236D	(2.3)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	(2.3)									(pg)	
1239D	(2.3)								OCDD	17.2	J
2378D	(2.3)										
1278D	(2.3)										
1267D	(2.3)										
1289D	(2.3)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	2.32		EMPC	0		EMPC	0				

 <p>2714 Exchange Drive Wilmington, NC 28405, USA</p> <p>Tel: +1 910 794-1613 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com</p>			ITEF TEQs			Conc.	EMPC
			TEQ: ND=0			0.0172	0.0361
			TEQ: ND=DL/2			2.92	2.93
			TEQ: ND=DL			5.82	5.83
			Total PCDD/Fs			17.2	21.4

Checkcode: 885-659-FQC

Report Created: 04-Aug-2011 13:11 Analyst: AP

Sample ID: T1 R0

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Received: 29 Jul 2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: A3402_8892_W2_001			Date Extracted: 30 Jul 2011		
Date Collected: 27 Jul 2011			Split: 2			QC Batch No.: 8892			Date Analyzed: 02 Aug 2011		
						Dilution: -			Time Analyzed: 23:11:09		
Tetra-Furans	Conc.	Qualifiers	Penta-Furans	Conc.	Qualifiers	Hexa-Furans	Conc	Qualifiers	Hepta-Furans	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368F	(1.73)		13468/12468F	(1.63)		123468F	(1.15)		1234678F	[1.9]	J
1468F	(1.73)		13678F...[3]	(1.52)		124678/134678F	(1.15)		1234679F	(1.74)	
2468F	(1.73)		12368F...[3]	(1.52)		134679F	(1.15)		1234689F	(1.74)	
1346/1246F	(1.73)		14678F	(1.52)		124679F	(1.15)		1234789F	(2.11)	
1347F...[3]	(1.73)		13479F	(1.52)		124689F	(1.15)				
1348F	(1.73)		13469/12479F	(1.52)		123467F	(1.15)				
1248F...[3]	(1.73)		12346F	(1.52)		123478F	(1.12)				
1268F	(1.73)		23468/12469F	(1.52)		123678F	(1.05)				
1467F	(1.73)		12347F	(1.52)		123479F	(1.15)				
1478F	(1.73)		12348F	(1.52)		123469F	(1.15)				
1369/1237F	(1.73)		12378F	(1.6)		123679F	(1.15)				
2467F	(1.73)		12678/12367F	(1.52)		234678F	(1.05)		Conc.	0	
2368F	(1.73)		12379F	(1.52)		234678/123689F	(1.05)		EMPC	1.9	
1238F...[5]	(1.73)		12679F	(1.52)		123689F	(1.15)				
1278F	(1.73)		23467/12369F	(1.52)		123789F	(1.45)		Octa-Furan	Conc	Qualifiers
1349F	(1.73)		23478F	(1.43)		123789/123489F	(1.45)			(pg)	
1267F	(1.73)		23478/12489F	(1.43)		123489F	(1.15)		OCDF	(6.53)	
2346/1249F	(1.73)		12489F	(1.52)							
2347/1279F	(1.73)		12349F	(1.52)							
2348F	(1.73)		12389F	(1.52)							
2378F	(1.73)										
2367/3467F	(1.73)										
1269F	(1.73)										
1239F	(1.73)										
1289F	(1.73)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	0		EMPC	0		EMPC	0				

Checkcode: 885-659-FQC

Report Created: 04-Aug-2011 13:11 Analyst: AP

Sample ID: T1 R0

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Service	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_001	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011	Split:	2	QC Batch No:	8892	Date Analyzed:	02-Aug-2011
				Dilution:	-	Time Analyzed:	23:11:09


Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	Recovery
PCB-77 33'44'-TeCB	13.4			J	ES PCB-77	145
PCB-81 344'5'-TeCB	ND	2.9			ES PCB-81	143
PCB-105 233'44'-PeCB	14.5			J	ES PCB-105	156 V
PCB-114 2344'5'-PeCB	ND	3.84			ES PCB-114	149
PCB-118 23'44'5'-PeCB	29.8				ES PCB-118	136
PCB-123 2'344'5'-PeCB	ND	3.67			ES PCB-123	181 V
PCB-126 33'44'5'-PeCB	ND	5.45			ES PCB-126	156 V
PCB-156 233'44'5'-HxCB	ND	4.03			ES PCB-156	148
PCB-157 233'44'5'-HxCB	ND	4.22			ES PCB-157	140
PCB-167 23'44'55'-HxCB	ND	3.43			ES PCB-167	153 V
PCB-169 33'44'55'-HxCB	ND	5.61			ES PCB-169	158 V
PCB-189 233'44'55'-HpCB	ND	8.31			ES PCB-189	157 V

ITEF + WHO-2005			WHO-1998			WHO-2005	
	Conc.	EMPC		Conc.	EMPC	Conc.	EMPC
DF+PCB (ND=0)	0.0198	0.0388	PCB (ND=0)	0.00577	0.00577	0.00267	0.00267
DF+PCB (ND=DL/2)	3.28	3.29	PCB (ND=DL/2)	0.31	0.31	0.36	0.36
DF+PCB (ND=DL)	6.53	6.54	PCB (ND=DL)	0.614	0.614	0.718	0.718
DF+PCB (< J-level=0)	0.000895	0.0199	PCB (< J-level = 0)	0.00298	0.00298	0.000895	0.000895
ITEF + WHO-1998							
DF+PCB (ND=0)	0.0229	0.0419	DF+PCB (ND=0)	0.00749	0.0265	0.00781	0.0268
DF+PCB (ND=DL/2)	3.23	3.24	DF+PCB (ND=DL/2)	3.87	3.88	3.77	3.78
DF+PCB (ND=DL)	6.43	6.44	DF+PCB (ND=DL)	7.73	7.74	7.52	7.53
DF+PCB (< J-level=0)	0.00298	0.022	DF+PCB (< J-level=0)	0.00298	0.022	0.000895	0.0199

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Sample ID: T1 R0			TEQ Summary		Method WHO-2	
Client Project Name: Pace Analytical Services			Matrix: Air		Lab Sample ID: A3402_8892_W2_001	
Client Project ID: FHR-ICR			Weight/Volume: 1		QC Batch No.: 8892	
Date Collected: 27-Jul-2011			Split: 2		Date Extracted: 30-Jul-2011	
Date Received: 29-Jul-2011			Dilution: -		Date Analyzed: 02-Aug-2011 23:11	
Lab Project No: A3402			Units pg			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(2.3)		2.3	(2.3)	(2.3)	(2.3)
12378-PeCDD	(2.65)		2.65	(1.33)	(2.65)	(2.65)
123478-HxCDD	(2.15)		2.15	(0.215)	(0.215)	(0.215)
123678-HxCDD	(2.18)		2.18	(0.218)	(0.218)	(0.218)
123789-HxCDD	(2.29)		2.29	(0.229)	(0.229)	(0.229)
1234678-HpCDD	(3.57)		3.57	(0.0357)	(0.0357)	(0.0357)
OCDD	17.2	J	4.72	0.0172	0.00172	0.00515
2378-TCDF	(1.73)		1.73	(0.173)	(0.173)	(0.173)
12378-PeCDF	(1.6)		1.6	(0.08)	(0.08)	(0.048)
23478-PeCDF	(1.43)		1.43	(0.715)	(0.715)	(0.429)
123478-HxCDF	(1.12)		1.12	(0.112)	(0.112)	(0.112)
123678-HxCDF	(1.05)		1.05	(0.105)	(0.105)	(0.105)
234678-HxCDF	(1.05)		1.05	(0.105)	(0.105)	(0.105)
123789-HxCDF	(1.45)		1.45	(0.145)	(0.145)	(0.145)
1234678-HpCDF	[1.9]	J	1.43	[0.019]	[0.019]	[0.019]
1234789-HpCDF	(2.11)		2.11	(0.0211)	(0.0211)	(0.0211)
OCDF	(6.53)		6.53	(0.00653)	(0.000653)	(0.00196)
 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			TEQ Summaries			
			EMPC = 0, ND = 0		0.0172	0.00172
			EMPC = 0, ND = DL / 2		2.92	3.56
			EMPC = 0, ND = DL		5.82	7.12
			EMPC = 0, < J-level = 0		0	0
			EMPC = EMPC, ND = 0		0.0361	0.0207
			EMPC = EMPC, ND = DL / 2		2.93	3.57
			EMPC = EMPC, ND = DL		5.82	7.13
			EMPC = EMPC, < J-level = 0		0.019	0.019

Checkcode: 885-659-FQC

AP WHO-2 2010 Rev. A

Sample ID: T1 R1

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID	A3402_8892_W2_002	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011			QC Batch No:	8892	Date Analyzed:	02-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	23:59:16
Analyte	Conc. (pg)	DL (pg)	EMPC (pg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	1.92			ES 2378-TCDD	88	
12378-PeCDD	ND	2.47			ES 12378-PeCDD	88.4	
123478-HxCDD	ND	1.56			ES 123478-HxCDD	89.6	
123678-HxCDD	ND	1.59			ES 123678-HxCDD	93.3	
123789-HxCDD	ND	1.67			ES 123789-HxCDD	92.5	
1234678-HpCDD	6.56			J	ES 1234678-HpCDD	89.9	
OCDD	21.3			J	ES OCDD	90.8	
2378-TCDF	3.12			J	ES 2378-TCDF	90.6	
12378-PeCDF	EMPC		1.25	J	ES 12378-PeCDF	90.1	
23478-PeCDF	EMPC		1.96	J	ES 23478-PeCDF	89.3	
123478-HxCDF	2.01			J	ES 123478-HxCDF	91.5	
123678-HxCDF	1.76			J	ES 123678-HxCDF	90.9	
234678-HxCDF	EMPC		2.1	J	ES 234678-HxCDF	91.5	
123789-HxCDF	ND	1.14			ES 123789-HxCDF	88.6	
1234678-HpCDF	7.34			J	ES 1234678-HpCDF	90.4	
1234789-HpCDF	ND	1.82			ES 1234789-HpCDF	90.9	
OCDF	7.37			J	ES OCDF	91.9	
Totals					Standard	SS/AS Recoveries	
					SS 37Cl-2378-TCDD	103	
Total TCDD	7.83		15		SS 12347-PeCDD	101	
Total PeCDD	7.45		13.1		SS 12346-PeCDF	101	
Total HxCDD	4.31		10.8		SS 123469-HxCDF	102	
Total HpCDD	15.6		15.6		SS 1234689-HpCDF	101	
					AS 1368-TCDD	87.9	
Total TCDF	31.1		42.7		AS 1368-TCDF	89.7	
Total PeCDF	9.47		15.5				
Total HxCDF	12.3		14.4				
Total HpCDF	7.34		7.34				
Total PCDD/Fs	124		163				
ITEF TEQs							
TEQ: ND=0	0.856		2.11				
TEQ: ND=DL/2	3.18	2.5	3.99				
TEQ: ND=DL	5.5	5.01	5.88				



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Sample ID: T1 R1

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Received: 29-Jul-2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: A3402_8892_W2_002			Date Extracted: 30-Jul-2011		
Date Collected: 27-Jul-2011			Split: 2			QC Batch No.: 8892			Date Analyzed: 02-Aug-2011		
						Dilution: -			Time Analyzed: 23:59:16		
Tetra-Dioxins	Conc.	Qualifiers	Penta-Dioxins	Conc.	Qualifiers	Hexa-Dioxins	Conc	Qualifiers	Hepta-Dioxins	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368D	7.83	J	12479/12468D	5.58	J	124679/124689D	[2.12]	J	1234679D	9.08	J
1379D	[3.77]	J	12469D	[2.48]	J	123468D	[4.37]	J	1234678D	6.56	J
1369D	(1.92)		12368D	[3.15]	J	123679/123689D	4.31	J			
1469D	[3.44]	J	12478D	(2.47)		123469D	(1.6)				
1247D...[4]	(1.92)		12379D	1.87	J	123478D	(1.56)				
1378D	(1.92)		12369D...[3]	(2.47)		123678D	(1.59)				
1268D	(1.92)		12346/12347D	(2.47)		123467D	(1.6)				
1478D	(1.92)		12378D	(2.47)		123789D	(1.67)		Conc.	15.6	
1279D	(1.92)		12367D	(2.47)					EMPC	15.6	
1234/1269D	(1.92)		12389D	(2.47)							
1236D	(1.92)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	(1.92)									(pg)	
1239D	(1.92)								OCDD	21.3	J
2378D	(1.92)										
1278D	(1.92)										
1267D	(1.92)										
1289D	(1.92)										
Conc.	7.83		Conc.	7.45		Conc.	4.31				
EMPC	15		EMPC	13.1		EMPC	10.8				



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2714 Exchange Drive
Wilmington, NC 28405, USA

Tel: +1 910 794-1613
Fax: +1 910 794-3919
info@ultratrace.com
www.ultratrace.com

ITEF TEQs			Conc.	EMPC
TEQ: ND=0			0.856	2.11
TEQ: ND=DL/2			3.18	3.99
TEQ: ND=DL			5.5	5.88
			Conc.	EMPC
Total PCDD/Fs			124	163

Checkcode: 284-222-JBX

Report Created: 04-Aug-2011 13:13 Analyst: AP

Sample ID: T1 R1

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Received: 29 Jul 2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: A3402_8892_W2_002			Date Extracted: 30 Jul 2011		
Date Collected: 27 Jul 2011			Split: 2			QC Batch No.: 8892			Date Analyzed: 02 Aug 2011		
						Dilution: -			Time Analyzed: 23:59:16		
Tetra-Furans	Conc.	Qualifiers	Penta-Furans	Conc.	Qualifiers	Hexa-Furans	Conc	Qualifiers	Hepta-Furans	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368F	(1.4)		13468/12468F	[2.78]	J	123468F	1.53	J	1234678F	7.34	J
1468F	(1.4)		13678F...[3]	3.36	J	124678/134678F	4.67	J	1234679F	(1.44)	
2468F	(1.4)		12368F...[3]	3.81	J	134679F	(0.921)		1234689F	(1.44)	
1346/1246F	(1.4)		14678F	(1.48)		124679F	(0.921)		1234789F	(1.82)	
1347F...[3]	5.63	J	13479F	(1.48)		124689F	(0.921)				
1348F	(1.4)		13469/12479F	(1.48)		123467F	2.35	J			
1248F...[3]	4.28	J	12346F	(1.48)		123478F	2.01	J			
1268F	[1.48]	J	23468/12469F	(1.48)		123678F	1.76	J			
1467F	(1.4)		12347F	(1.48)		123479F	(0.921)				
1478F	[1.6]	J	12348F	(1.48)		123469F	(0.921)				
1369/1237F	[2.05]	J	12378F	[1.25]	J	123679F	(0.921)				
2467F	1.92	J	12678/12367F	(1.48)		234678F	[2.1]	J	Conc.	7.34	
2368F	[1.31]	J	12379F	(1.48)		234678/123689F	(0.855)		EMPC	7.34	
1238F...[5]	6.78	J	12679F	(1.48)		123689F	(0.921)				
1278F	3.01	J	23467/12369F	2.3	J	123789F	(1.14)		Octa-Furan	Conc	Qualifiers
1349F	(1.4)		23478F	[1.96]	J	123789/123489F	(1.14)			(pg)	
1267F	[2.09]	J	23478/12489F	(1.43)		123489F	(0.921)		OCDF	7.37	J
2346/1249F	[2]	J	12489F	(1.48)							
2347/1279F	2.9	J	12349F	(1.48)							
2348F	[0.989]	J	12389F	(1.48)							
2378F	3.12	J									
2367/3467F	3.5	J									
1269F	(1.4)										
1239F	(1.4)										
1289F	(1.4)										
Conc.	31.1		Conc.	9.47		Conc.	12.3				
EMPC	42.7		EMPC	15.5		EMPC	14.4				

Checkcode: 284-222-JBX

Report Created: 04-Aug-2011 13:13 Analyst: AP

Sample ID: T1 R1

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Service	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_002	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011	Split:	2	QC Batch No:	8892	Date Analyzed:	02-Aug-2011
				Dilution:	-	Time Analyzed:	23:59:16


Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	Recovery
PCB-77 33'44'-TeCB	196				ES PCB-77	107
PCB-81 344'5'-TeCB	ND	12.5			ES PCB-81	107
PCB-105 233'44'-PeCB	458				ES PCB-105	99.5
PCB-114 2344'5'-PeCB	63.5				ES PCB-114	83
PCB-118 23'44'5'-PeCB	1010				ES PCB-118	86.9
PCB-123 2'344'5'-PeCB	ND	11			ES PCB-123	84.2
PCB-126 33'44'5'-PeCB	ND	13.4			ES PCB-126	103
PCB-156 233'44'5'-HxCB	52.9				ES PCB-156	97.2
PCB-157 233'44'5'-HxCB	10.9			J	ES PCB-157	99.9
PCB-167 23'44'55'-HxCB	29.1				ES PCB-167	89.3
PCB-169 33'44'55'-HxCB	ND	8.22			ES PCB-169	106
PCB-189 233'44'55'-HpCB	ND	14.7			ES PCB-189	97

ITEF + WHO-2005			WHO-1998			WHO-2005	
	Conc.	EMPC		Conc.	EMPC	Conc.	EMPC
DF+PCB (ND=0)	0.925	2.18	PCB (ND=0)	0.23	0.23	0.0682	0.0682
DF+PCB (ND=DL/2)	4.04	4.86	PCB (ND=DL/2)	0.943	0.943	0.864	0.864
DF+PCB (ND=DL)	7.16	7.54	PCB (ND=DL)	1.66	1.66	1.66	1.66
DF+PCB (< J-level=0)	0.0679	1.32	PCB (< J-level = 0)	0.224	0.224	0.0679	0.0679
ITEF + WHO-1998							
DF+PCB (ND=0)	1.09	2.34	DF+PCB (ND=0)	1.06	2.31	0.905	1.74
DF+PCB (ND=DL/2)	4.12	4.94	DF+PCB (ND=DL/2)	4.71	5.53	4.48	5.04
DF+PCB (ND=DL)	7.16	7.54	DF+PCB (ND=DL)	8.37	8.74	8.06	8.34
DF+PCB (< J-level=0)	0.224	1.48	DF+PCB (< J-level=0)	0.224	1.48	0.0679	0.904

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				Wilmington, NC 28405 , USA			
				info@ultratrace.com			
				www.ultratrace.com			



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Sample ID: T1 R1		TEQ Summary			Method WHO-2	
Client Project Name: Pace Analytical Services		Matrix: Air		Lab Sample ID: A3402_8892_W2_002		
Cliend Project ID: FHR-ICR		Weight/Volume: 1		QC Batch No.: 8892		
Date Collected: 27-Jul-2011		Split: 2		Date Extracted: 30-Jul-2011		
Date Received: 29-Jul-2011		Dilution: -		Date Analyzed: 02-Aug-2011 23:59		
Lab Project No: A3402		Units pg				
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(1.92)		1.92	(1.92)	(1.92)	(1.92)
12378-PeCDD	(2.47)		2.47	(1.24)	(2.47)	(2.47)
123478-HxCDD	(1.56)		1.56	(0.156)	(0.156)	(0.156)
123678-HxCDD	(1.59)		1.59	(0.159)	(0.159)	(0.159)
123789-HxCDD	(1.67)		1.67	(0.167)	(0.167)	(0.167)
1234678-HpCDD	6.56	J	2.79	0.0656	0.0656	0.0656
OCDD	21.3	J	4.98	0.0213	0.00213	0.00639
2378-TCDF	3.12	J	1.4	0.312	0.312	0.312
12378-PeCDF	[1.25]	J	1.54	[0.0624]	[0.0624]	[0.0374]
23478-PeCDF	[1.96]	J	1.43	[0.982]	[0.982]	[0.589]
123478-HxCDF	2.01	J	0.866	0.201	0.201	0.201
123678-HxCDF	1.76	J	0.856	0.176	0.176	0.176
234678-HxCDF	[2.1]	J	0.855	[0.21]	[0.21]	[0.21]
123789-HxCDF	(1.14)		1.14	(0.114)	(0.114)	(0.114)
1234678-HpCDF	7.34	J	1.13	0.0734	0.0734	0.0734
1234789-HpCDF	(1.82)		1.82	(0.0182)	(0.0182)	(0.0182)
OCDF	7.37	J	4.94	0.00737	0.000737	0.00221
<div><div>ANALYTICAL PERSPECTIVES</div></div> <div>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com</div>		TEQ Summaries				
		EMPC = 0, ND = 0		0.856	0.831	0.836
		EMPC = 0, ND = DL / 2		3.18	3.77	3.62
		EMPC = 0, ND = DL		5.5	6.71	6.4
		EMPC = 0, < J-level = 0		0	0	0
		EMPC = EMPC, ND = 0		2.11	2.08	1.67
		EMPC = EMPC, ND = DL / 2		4	4.59	4.17
		EMPC = EMPC, ND = DL		5.88	7.09	6.68
		EMPC = EMPC, < J-level = 0	1.25	1.25	0.836	

Checkcode: 284-222-JBX

AP WHO-2 2010 Rev. A

Sample ID: T1 R2

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_003	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011			QC Batch No:	8892	Date Analyzed:	03-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	00:47:23
Analyte	Conc. (pg)	DL (pg)	EMPC (pg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	1.54			ES 2378-TCDD	91.9	
12378-PeCDD	ND	1.87			ES 12378-PeCDD	97	
123478-HxCDD	ND	1.66			ES 123478-HxCDD	91.3	
123678-HxCDD	ND	1.63			ES 123678-HxCDD	94	
123789-HxCDD	EMPC		1.7	J	ES 123789-HxCDD	94.6	
1234678-HpCDD	EMPC		2.94	J	ES 1234678-HpCDD	98.2	
OCDD	14.6			J	ES OCDD	86.1	
2378-TCDF	2.42			J	ES 2378-TCDF	92.9	
12378-PeCDF	ND	1.38			ES 12378-PeCDF	96.2	
23478-PeCDF	ND	1.34			ES 23478-PeCDF	95.3	
123478-HxCDF	0.804			J	ES 123478-HxCDF	91.9	
123678-HxCDF	ND	0.754			ES 123678-HxCDF	92.3	
234678-HxCDF	EMPC		0.838	J	ES 234678-HxCDF	92.6	
123789-HxCDF	ND	0.986			ES 123789-HxCDF	91.6	
1234678-HpCDF	2.02			J	ES 1234678-HpCDF	104	
1234789-HpCDF	ND	1.38			ES 1234789-HpCDF	100	
OCDF	ND	4.05			ES OCDF	85.8	
Totals					Standard	SS/AS Recoveries	
Total TCDD	10.7		10.7		SS 37Cl-2378-TCDD	99.5	
Total PeCDD	4.58		6.73		SS 12347-PeCDD	98	
Total HxCDD	ND		1.7		SS 12346-PeCDF	100	
Total HpCDD	3.83		6.77		SS 123469-HxCDF	104	
					SS 1234689-HpCDF	99.6	
Total TCDF	27.9		34.4		AS 1368-TCDD	93	
Total PeCDF	ND	1.36	ND		AS 1368-TCDF	95.2	
Total HxCDF	1.84		4.18				
Total HpCDF	2.02		2.02				
Total PCDD/Fs	65.4		81				
ITEF TEQs							
TEQ: ND=0	0.357		0.64				
TEQ: ND=DL/2	2.36	2.11	2.51				
TEQ: ND=DL	4.37	4.22	4.37				



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Sample ID: T1 R2

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_003	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011			QC Batch No.:	8892	Date Analyzed:	03-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	00:47:23

Tetra-Dioxins	Conc. (pg)	Qualifiers	Penta-Dioxins	Conc. (pg)	Qualifiers	Hexa-Dioxins	Conc (pg)	Qualifiers	Hepta-Dioxins	Conc (pg)	Qualifiers
1368D	6.33	J	12479/12468D	4.58	J	124679/124689D	(1.69)		1234679D	3.83	J
1379D	4.34	J	12469D	[2.15]	J	123468D	(1.69)		1234678D	[2.94]	J
1369D	(1.54)		12368D	(1.87)		123679/123689D	(1.69)				
1469D	(1.54)		12478D	(1.87)		123469D	(1.69)				
1247D...[4]	(1.54)		12379D	(1.87)		123478D	(1.66)				
1378D	(1.54)		12369D...[3]	(1.87)		123678D	(1.63)				
1268D	(1.54)		12346/12347D	(1.87)		123467D	(1.69)				
1478D	(1.54)		12378D	(1.87)		123789D	[1.7]	J	Conc.	3.83	
1279D	(1.54)		12367D	(1.87)					EMPC	6.77	
1234/1269D	(1.54)		12389D	(1.87)							
1236D	(1.54)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	(1.54)									(pg)	
1239D	(1.54)								OCDD	14.6	J
2378D	(1.54)										
1278D	(1.54)										
1267D	(1.54)										
1289D	(1.54)										
Conc.	10.7		Conc.	4.58		Conc.	0				
EMPC	10.7		EMPC	6.73		EMPC	1.7				



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Fax: +1 910 794-3919
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ITEF TEQs	Conc.	EMPC
TEQ: ND=0	0.357	0.64
TEQ: ND=DL/2	2.36	2.51
TEQ: ND=DL	4.37	4.37
	Conc.	EMPC
Total PCDD/Fs	65.4	81

Checkcode: 391-860-FVC

Report Created: 04-Aug-2011 13:13 Analyst: AP

Sample ID: T1 R2

Method WHO-2

Client Data			Sample Data			Laboratory Data			Date Received: 29 Jul 2011		
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Extracted: 30 Jul 2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: A3402_8892_W2_003			Date Analyzed: 03 Aug 2011		
Date Collected: 27 Jul 2011			Split: 2			QC Batch No.: 8892			Time Analyzed: 00:47:23		
Tetra-Furans	Conc.	Qualifiers	Penta-Furans	Conc.	Qualifiers	Hexa-Furans	Conc	Qualifiers	Hepta-Furans	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368F	[1.9]	J	13468/12468F	(1.26)		123468F	(0.802)		1234678F	2.02	J
1468F	(1.26)		13678F...[3]	(1.36)		124678/134678F	[1.5]	J	1234679F	(1.1)	
2468F	(1.26)		12368F...[3]	(1.36)		134679F	(0.802)		1234689F	(1.1)	
1346/1246F	(1.26)		14678F	(1.36)		124679F	(0.802)		1234789F	(1.38)	
1347F...[3]	5.08	J	13479F	(1.36)		124689F	(0.802)				
1348F	(1.26)		13469/12479F	(1.36)		123467F	1.03	J			
1248F...[3]	3.13	J	12346F	(1.36)		123478F	0.804	J			
1268F	(1.26)		23468/12469F	(1.36)		123678F	(0.754)				
1467F	(1.26)		12347F	(1.36)		123479F	(0.802)				
1478F	(1.26)		12348F	(1.36)		123469F	(0.802)				
1369/1237F	2.74	J	12378F	(1.38)		123679F	(0.802)				
2467F	(1.26)		12678/12367F	(1.36)		234678F	[0.838]	J	Conc.	2.02	
2368F	(1.26)		12379F	(1.36)		234678/123689F	(0.744)		EMPC	2.02	
1238F...[5]	6.13	J	12679F	(1.36)		123689F	(0.802)				
1278F	4.1	J	23467/12369F	(1.36)		123789F	(0.986)		Octa-Furan	Conc	Qualifiers
1349F	(1.26)		23478F	(1.34)		123789/123489F	(0.986)			(pg)	
1267F	(1.26)		23478/12489F	(1.34)		123489F	(0.802)		OCDF	(4.05)	
2346/1249F	(1.26)		12489F	(1.36)							
2347/1279F	[2.74]	J	12349F	(1.36)							
2348F	(1.26)		12389F	(1.36)							
2378F	2.42	J									
2367/3467F	2.43	J									
1269F	(1.26)										
1239F	1.89	J									
1289F	[1.82]	J									
Conc.	27.9		Conc.	0		Conc.	1.84				
EMPC	34.4		EMPC	0		EMPC	4.18				

Checkcode: 391-860-FVC

Report Created: 04-Aug-2011 13:13 Analyst: AP

Sample ID: T1 R2

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Service	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_003	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011	Split:	2	QC Batch No:	8892	Date Analyzed:	03-Aug-2011
				Dilution:	-	Time Analyzed:	00:47:23


Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	Recovery
PCB-77 33'44'-TeCB	131				ES PCB-77	103
PCB-81 344'5'-TeCB	ND	10.4			ES PCB-81	103
PCB-105 233'44'-PeCB	265				ES PCB-105	91.3
PCB-114 2344'5'-PeCB	38.7				ES PCB-114	72.3
PCB-118 23'44'5'-PeCB	544				ES PCB-118	80.2
PCB-123 2'344'5'-PeCB	ND	14.7			ES PCB-123	71.2
PCB-126 33'44'5'-PeCB	ND	17.2			ES PCB-126	99.8
PCB-156 233'44'5'-HxCB	34.8				ES PCB-156	85.7
PCB-157 233'44'5'-HxCB	ND	7.44			ES PCB-157	91.1
PCB-167 23'44'55'-HxCB	16			J	ES PCB-167	80.4
PCB-169 33'44'55'-HxCB	ND	9.51			ES PCB-169	98.4
PCB-189 233'44'55'-HpCB	ND	19.4			ES PCB-189	85.3

ITEF + WHO-2005			WHO-1998			WHO-2005	
	Conc.	EMPC		Conc.	EMPC	Conc.	EMPC
DF+PCB (ND=0)	0.397	0.68	PCB (ND=0)	0.131	0.131	0.04	0.04
DF+PCB (ND=DL/2)	3.41	3.55	PCB (ND=DL/2)	1.04	1.04	1.04	1.04
DF+PCB (ND=DL)	6.42	6.42	PCB (ND=DL)	1.95	1.95	2.05	2.05
DF+PCB (< J-level=0)	0.0395	0.323	PCB (< J-level = 0)	0.131	0.131	0.0395	0.0395
ITEF + WHO-1998							
DF+PCB (ND=0)	0.488	0.771	DF+PCB (ND=0)	0.475	0.758	0.387	0.67
DF+PCB (ND=DL/2)	3.41	3.55	DF+PCB (ND=DL/2)	3.86	4	3.72	3.86
DF+PCB (ND=DL)	6.32	6.33	DF+PCB (ND=DL)	7.24	7.25	7.04	7.05
DF+PCB (< J-level=0)	0.131	0.414	DF+PCB (< J-level=0)	0.131	0.414	0.0395	0.323

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Sample ID: T1 R2			TEQ Summary		Method WHO-2	
Client Project Name: Pace Analytical Services			Matrix: Air		Lab Sample ID: A3402_8892_W2_003	
Cliend Project ID: FHR-ICR			Weight/Volume: 1		QC Batch No.: 8892	
Date Collected: 27-Jul-2011			Split: 2		Date Extracted: 30-Jul-2011	
Date Received: 29-Jul-2011			Dilution: -		Date Analyzed: 03-Aug-2011 00:47	
Lab Project No: A3402			Units pg			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(1.54)		1.54	(1.54)	(1.54)	(1.54)
12378-PeCDD	(1.87)		1.87	(0.935)	(1.87)	(1.87)
123478-HxCDD	(1.66)		1.66	(0.166)	(0.166)	(0.166)
123678-HxCDD	(1.63)		1.63	(0.163)	(0.163)	(0.163)
123789-HxCDD	[1.7]	J	1.79	[0.17]	[0.17]	[0.17]
1234678-HpCDD	[2.94]	J	2.33	[0.0294]	[0.0294]	[0.0294]
OCDD	14.6	J	4.05	0.0146	0.00146	0.00437
2378-TCDF	2.42	J	1.26	0.242	0.242	0.242
12378-PeCDF	(1.38)		1.38	(0.069)	(0.069)	(0.0414)
23478-PeCDF	(1.34)		1.34	(0.67)	(0.67)	(0.402)
123478-HxCDF	0.804	J	0.752	0.0804	0.0804	0.0804
123678-HxCDF	(0.754)		0.754	(0.0754)	(0.0754)	(0.0754)
234678-HxCDF	[0.838]	J	0.744	[0.0838]	[0.0838]	[0.0838]
123789-HxCDF	(0.986)		0.986	(0.0986)	(0.0986)	(0.0986)
1234678-HpCDF	2.02	J	0.88	0.0202	0.0202	0.0202
1234789-HpCDF	(1.38)		1.38	(0.0138)	(0.0138)	(0.0138)
OCDF	(4.05)		4.05	(0.00405)	(0.000405)	(0.00122)
<div><div>ANALYTICAL PERSPECTIVES</div></div> <div>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com</div>		TEQ Summaries				
		EMPC = 0, ND = 0		0.357	0.344	0.347
		EMPC = 0, ND = DL / 2		2.36	2.82	2.67
		EMPC = 0, ND = DL		4.37	5.29	4.99
		EMPC = 0, < J-level = 0		0	0	0
		EMPC = EMPC, ND = 0		0.64	0.627	0.63
		EMPC = EMPC, ND = DL / 2		2.51	2.96	2.82
		EMPC = EMPC, ND = DL		4.37	5.29	5
		EMPC = EMPC, < J-level = 0		0.283	0.283	0.283

Checkcode: 391-860-FVC

AP WHO-2 2010 Rev. A

Sample ID: T1 R3

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_004	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011			QC Batch No:	8892	Date Analyzed:	03-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	01:35:31
Analyte	Conc. (pg)	DL (pg)	EMPC (pg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	1.44			ES 2378-TCDD	90.1	
12378-PeCDD	ND	2.09			ES 12378-PeCDD	122	
123478-HxCDD	ND	1.57			ES 123478-HxCDD	90.5	
123678-HxCDD	ND	1.65			ES 123678-HxCDD	92.1	
123789-HxCDD	2.05			J	ES 123789-HxCDD	93.6	
1234678-HpCDD	5.14			J	ES 1234678-HpCDD	94.7	
OCDD	25.2			J	ES OCDD	79.2	
2378-TCDF	4			J	ES 2378-TCDF	90.6	
12378-PeCDF	EMPC		1.87	J	ES 12378-PeCDF	128	
23478-PeCDF	EMPC		1.24	J	ES 23478-PeCDF	126	
123478-HxCDF	1.61			J	ES 123478-HxCDF	90.3	
123678-HxCDF	1.24			J	ES 123678-HxCDF	91	
234678-HxCDF	EMPC		1.32	J	ES 234678-HxCDF	93.1	
123789-HxCDF	EMPC		1.52	J	ES 123789-HxCDF	90.9	
1234678-HpCDF	4.34			J	ES 1234678-HpCDF	93.6	
1234789-HpCDF	ND	1.76			ES 1234789-HpCDF	97.2	
OCDF	7.36			J	ES OCDF	79.9	
Totals					Standard	SS/AS Recoveries	
Total TCDD	16.8		26.1		SS 37Cl-2378-TCDD	98.5	
Total PeCDD	ND		11.1		SS 12347-PeCDD	102	
Total HxCDD	6.13		10.7		SS 12346-PeCDF	99	
Total HpCDD	11		11		SS 123469-HxCDF	101	
					SS 1234689-HpCDF	99.6	
Total TCDF	50.3		67.4		AS 1368-TCDD	90.5	
Total PeCDF	9.15		20.3		AS 1368-TCDF	90.2	
Total HxCDF	4.44		9.87				
Total HpCDF	5.89		5.89				
Total PCDD/Fs	136		195				
ITEF TEQs							
TEQ: ND=0	1.02		2.01				
TEQ: ND=DL/2	2.81	2.04	3.43				
TEQ: ND=DL	4.6	4.09	4.84				



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Sample ID: T1 R3**Method WHO-2**

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_004	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011			QC Batch No.:	8892	Date Analyzed:	03-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	01:35:31

Tetra-Dioxins	Conc. (pg)	Qualifiers	Penta-Dioxins	Conc. (pg)	Qualifiers	Hexa-Dioxins	Conc (pg)	Qualifiers	Hepta-Dioxins	Conc (pg)	Qualifiers
1368D	8.39	J	12479/12468D	[5.24]	J	124679/124689D	[1.88]	J	1234679D	5.88	J
1379D	[4.29]	J	12469D	[2.4]	J	123468D	[2.71]	J	1234678D	5.14	J
1369D	(1.44)		12368D	[3.51]	J	123679/123689D	4.08	J			
1469D	5.26	J	12478D	(2.09)		123469D	(1.63)				
1247D...[4]	3.17	J	12379D	(2.09)		123478D	(1.57)				
1378D	[1.36]	J	12369D...[3]	(2.09)		123678D	(1.65)				
1268D	(1.44)		12346/12347D	(2.09)		123467D	(1.63)				
1478D	(1.44)		12378D	(2.09)		123789D	2.05	J	Conc.	11	
1279D	(1.44)		12367D	(2.09)					EMPC	11	
1234/1269D	[1.95]	J	12389D	(2.09)							
1236D	(1.44)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	[1.73]	J								(pg)	
1239D	(1.44)								OCDD	25.2	J
2378D	(1.44)										
1278D	(1.44)										
1267D	(1.44)										
1289D	(1.44)										
Conc.	16.8		Conc.	0		Conc.	6.13				
EMPC	26.1		EMPC	11.1		EMPC	10.7				



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ITEF TEQs	Conc.	EMPC
TEQ: ND=0	1.02	2.01
TEQ: ND=DL/2	2.81	3.43
TEQ: ND=DL	4.6	4.84
	Conc.	EMPC
Total PCDD/Fs	136	195

Checkcode: 006-364-CJT

Report Created: 04-Aug-2011 13:13 Analyst: AP

Sample ID: T1 R3

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Received: 29 Jul 2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: A3402_8892_W2_004			Date Extracted: 30 Jul 2011		
Date Collected: 27 Jul 2011			Split: 2			QC Batch No.: 8892			Date Analyzed: 03 Aug 2011		
						Dilution: -			Time Analyzed: 01:35:31		
Tetra-Furans	Conc.	Qualifiers	Penta-Furans	Conc.	Qualifiers	Hexa-Furans	Conc	Qualifiers	Hepta-Furans	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368F	[3.55]	J	13468/12468F	(1.23)		123468F	(0.764)		1234678F	4.34	J
1468F	(1.5)		13678F...[3]	2.99	J	124678/134678F	[2.59]	J	1234679F	(1.46)	
2468F	2.1	J	12368F...[3]	3.99	J	134679F	(0.764)		1234689F	1.55	J
1346/1246F	3.24	J	14678F	[1.12]	J	124679F	(0.764)		1234789F	(1.76)	
1347F...[3]	6.61	J	13479F	(1.09)		124689F	(0.764)				
1348F	2.39	J	13469/12479F	(1.09)		123467F	1.6	J			
1248F...[3]	[4.3]	J	12346F	[1.18]	J	123478F	1.61	J			
1268F	[1.97]	J	23468/12469F	[1.28]	J	123678F	1.24	J			
1467F	[1.98]	J	12347F	[1.15]	J	123479F	(0.764)				
1478F	2.1	J	12348F	(1.09)		123469F	(0.764)				
1369/1237F	[3.5]	J	12378F	[1.87]	J	123679F	(0.764)				
2467F	[1.77]	J	12678/12367F	[2.09]	J	234678F	[1.32]	J	Conc.	5.89	
2368F	2.41	J	12379F	[1.18]	J	234678/123689F	(0.71)		EMPC	5.89	
1238F...[5]	7.71	J	12679F	(1.09)		123689F	(0.764)				
1278F	4.74	J	23467/12369F	2.17	J	123789F	[1.52]	J	Octa-Furan	Conc	Qualifiers
1349F	(1.5)		23478F	[1.24]	J	123789/123489F	(0.925)			(pg)	
1267F	2.62	J	23478/12489F	(1.08)		123489F	(0.764)		OCDF	7.36	J
2346/1249F	1.88	J	12489F	(1.09)							
2347/1279F	2.6	J	12349F	(1.09)							
2348F	2.11	J	12389F	(1.09)							
2378F	4	J									
2367/3467F	3.72	J									
1269F	(1.5)										
1239F	2.08	J									
1289F	(1.5)										
Conc.	50.3		Conc.	9.15		Conc.	4.44				
EMPC	67.4		EMPC	20.3		EMPC	9.87				

Checkcode: 006-364-CJT

Report Created: 04-Aug-2011 13:13 Analyst: AP

Sample ID: T1 R3

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Service	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_004	Date Extracted:	30-Jul-2011
Date Collected:	27-Jul-2011	Split:	2	QC Batch No:	8892	Date Analyzed:	03-Aug-2011
				Dilution:	-	Time Analyzed:	01:35:31


Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	Recovery
PCB-77 33'44'-TeCB	303				ES PCB-77	105
PCB-81 344'5'-TeCB	ND	20.9			ES PCB-81	103
PCB-105 233'44'-PeCB	747				ES PCB-105	84.9
PCB-114 2344'5'-PeCB	EMPC		95.9		ES PCB-114	61.6
PCB-118 23'44'5'-PeCB	1700				ES PCB-118	64.6
PCB-123 2'344'5'-PeCB	ND	22.7			ES PCB-123	59.1
PCB-126 33'44'5'-PeCB	ND	22.7			ES PCB-126	97.9
PCB-156 233'44'5'-HxCB	76.4				ES PCB-156	78.5
PCB-157 233'44'5'-HxCB	18.9			J	ES PCB-157	86.3
PCB-167 23'44'55'-HxCB	EMPC		43.1		ES PCB-167	68.3
PCB-169 33'44'55'-HxCB	ND	13.6			ES PCB-169	98
PCB-189 233'44'55'-HpCB	ND	28.3			ES PCB-189	75.6

TEQs			WHO-1998			WHO-2005	
ITEF + WHO-2005							
	Conc.	EMPC		Conc.	EMPC	Conc.	EMPC
DF+PCB (ND=0)	1.12	2.13	PCB (ND=0)	0.323	0.371	0.107	0.111
DF+PCB (ND=DL/2)	4.26	4.88	PCB (ND=DL/2)	1.54	1.58	1.45	1.45
DF+PCB (ND=DL)	7.39	7.64	PCB (ND=DL)	2.75	2.78	2.79	2.8
DF+PCB (< J-level=0)	0.106	1.11	PCB (< J-level = 0)	0.313	0.362	0.106	0.11
ITEF + WHO-1998							
DF+PCB (ND=0)	1.34	2.39	DF+PCB (ND=0)	1.31	2.36	1.1	1.82
DF+PCB (ND=DL/2)	4.34	5	DF+PCB (ND=DL/2)	4.84	5.5	4.64	5.09
DF+PCB (ND=DL)	7.35	7.62	DF+PCB (ND=DL)	8.36	8.64	8.18	8.37
DF+PCB (< J-level=0)	0.313	1.36	DF+PCB (< J-level=0)	0.313	1.36	0.106	0.822

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Sample ID: T1 R3			TEQ Summary		Method WHO-2	
Client Project Name: Pace Analytical Services			Matrix: Air		Lab Sample ID: A3402_8892_W2_004	
Client Project ID: FHR-ICR			Weight/Volume: 1		QC Batch No.: 8892	
Date Collected: 27-Jul-2011			Split: 2		Date Extracted: 30-Jul-2011	
Date Received: 29-Jul-2011			Dilution: -		Date Analyzed: 03-Aug-2011 01:35	
Lab Project No: A3402			Units pg			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(1.44)		1.44	(1.44)	(1.44)	(1.44)
12378-PeCDD	(2.09)		2.09	(1.05)	(2.09)	(2.09)
123478-HxCDD	(1.57)		1.57	(0.157)	(0.157)	(0.157)
123678-HxCDD	(1.65)		1.65	(0.165)	(0.165)	(0.165)
123789-HxCDD	2.05	J	1.68	0.205	0.205	0.205
1234678-HpCDD	5.14	J	1.81	0.0514	0.0514	0.0514
OCDD	25.2	J	3.44	0.0252	0.00252	0.00755
2378-TCDF	4	J	1.5	0.4	0.4	0.4
12378-PeCDF	[1.87]	J	1.09	[0.0935]	[0.0935]	[0.0561]
23478-PeCDF	[1.24]	J	1.08	[0.62]	[0.62]	[0.372]
123478-HxCDF	1.61	J	0.746	0.161	0.161	0.161
123678-HxCDF	1.24	J	0.702	0.124	0.124	0.124
234678-HxCDF	[1.32]	J	0.71	[0.132]	[0.132]	[0.132]
123789-HxCDF	[1.52]	J	0.925	[0.152]	[0.152]	[0.152]
1234678-HpCDF	4.34	J	1.21	0.0434	0.0434	0.0434
1234789-HpCDF	(1.76)		1.76	(0.0176)	(0.0176)	(0.0176)
OCDF	7.36	J	4.35	0.00736	0.000736	0.00221
 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			TEQ Summaries			
			EMPC = 0, ND = 0		1.02	0.988
			EMPC = 0, ND = DL / 2		2.81	3.3
			EMPC = 0, ND = DL		4.6	5.62
			EMPC = 0, < J-level = 0		0	0
			EMPC = EMPC, ND = 0		2.01	1.99
			EMPC = EMPC, ND = DL / 2		3.43	3.92
			EMPC = EMPC, ND = DL		4.84	5.85
			EMPC = EMPC, < J-level = 0		0.997	0.997

Checkcode: 006-364-CJT

AP WHO-2 2010 Rev. A

Sample ID: T1 R1 Acetone/MeCl2

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID	A3402_8892_W2_006	Date Extracted:	30-Jul-2011
Date Collected:	n/a	Split:	2	QC Batch No:	8892	Date Analyzed:	03-Aug-2011
				Dilution:	-	Time Analyzed:	02:23:45
Analyte	Conc. (pg)	DL (pg)	EMPC (pg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	2.54			ES 2378-TCDD	91.7	
12378-PeCDD	ND	2.6			ES 12378-PeCDD	88.7	
123478-HxCDD	ND	2.55			ES 123478-HxCDD	92.1	
123678-HxCDD	ND	2.47			ES 123678-HxCDD	93.5	
123789-HxCDD	ND	2.62			ES 123789-HxCDD	97.2	
1234678-HpCDD	EMPC		5.01	J	ES 1234678-HpCDD	90.6	
OCDD	17.9			J	ES OCDD	85.6	
2378-TCDF	ND	2.04			ES 2378-TCDF	91.8	
12378-PeCDF	ND	1.93			ES 12378-PeCDF	91.9	
23478-PeCDF	ND	1.77			ES 23478-PeCDF	88	
123478-HxCDF	ND	1.47			ES 123478-HxCDF	94.8	
123678-HxCDF	EMPC		1.4	J	ES 123678-HxCDF	93.4	
234678-HxCDF	ND	1.48			ES 234678-HxCDF	90.8	
123789-HxCDF	ND	1.88			ES 123789-HxCDF	91.3	
1234678-HpCDF	3.88			J	ES 1234678-HpCDF	92.6	
1234789-HpCDF	ND	2.65			ES 1234789-HpCDF	89.9	
OCDF	ND	5.82			ES OCDF	82.8	
Totals					Standard	SS/AS Recoveries	
Total TCDD	2.26		2.26		SS 37Cl-2378-TCDD	n/a	
Total PeCDD	ND		2.6		SS 12347-PeCDD	n/a	
Total HxCDD	3.15		3.15		SS 12346-PeCDF	n/a	
Total HpCDD	ND		9.33		SS 123469-HxCDF	n/a	
					SS 1234689-HpCDF	n/a	
Total TCDF	3.41		3.41		AS 1368-TCDD	89.1	
Total PeCDF	ND	1.85	ND		AS 1368-TCDF	92.9	
Total HxCDF	ND		3.39				
Total HpCDF	3.88		3.88				
Total PCDD/Fs	30.6		45.9				
ITEF TEQs							
TEQ: ND=0	0.0566		0.246				
TEQ: ND=DL/2	3.3	3.25	3.4				
TEQ: ND=DL	6.54	6.5	6.55				



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Wilmington, NC 28405, USA

info@ultratrace.com

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Method WHO-2

Report Created: 04-Aug-2011 13:14 Analyst: AP

Sample ID: T1 R1 Acetone/MeCl2

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Received: 29 Jul 2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: A3402_8892_W2_006			Date Extracted: 30 Jul 2011		
Date Collected: n/a			Split: 2			QC Batch No.: 8892			Date Analyzed: 03 Aug 2011		
						Dilution: -			Time Analyzed: 02:23:45		
Tetra-Furans	Conc.	Qualifiers	Penta-Furans	Conc.	Qualifiers	Hexa-Furans	Conc	Qualifiers	Hepta-Furans	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368F	(2.04)		13468/12468F	(2.71)		123468F	(1.56)		1234678F	3.88	J
1468F	(2.04)		13678F...[3]	(1.85)		124678/134678F	[1.99]	J	1234679F	(2.1)	
2468F	(2.04)		12368F...[3]	(1.85)		134679F	(1.56)		1234689F	(2.1)	
1346/1246F	(2.04)		14678F	(1.85)		124679F	(1.56)		1234789F	(2.65)	
1347F...[3]	(2.04)		13479F	(1.85)		124689F	(1.56)				
1348F	(2.04)		13469/12479F	(1.85)		123467F	(1.56)				
1248F...[3]	(2.04)		12346F	(1.85)		123478F	(1.47)				
1268F	(2.04)		23468/12469F	(1.85)		123678F	[1.4]	J			
1467F	(2.04)		12347F	(1.85)		123479F	(1.56)				
1478F	(2.04)		12348F	(1.85)		123469F	(1.56)				
1369/1237F	(2.04)		12378F	(1.93)		123679F	(1.56)				
2467F	(2.04)		12678/12367F	(1.85)		234678F	(1.48)		Conc.	3.88	
2368F	(2.04)		12379F	(1.85)		234678/123689F	(1.48)		EMPC	3.88	
1238F...[5]	3.41	J	12679F	(1.85)		123689F	(1.56)				
1278F	(2.04)		23467/12369F	(1.85)		123789F	(1.88)		Octa-Furan	Conc	Qualifiers
1349F	(2.04)		23478F	(1.77)		123789/123489F	(1.88)			(pg)	
1267F	(2.04)		23478/12489F	(1.77)		123489F	(1.56)		OCDF	(5.82)	
2346/1249F	(2.04)		12489F	(1.85)							
2347/1279F	(2.04)		12349F	(1.85)							
2348F	(2.04)		12389F	(1.85)							
2378F	(2.04)										
2367/3467F	(2.04)										
1269F	(2.04)										
1239F	(2.04)										
1289F	(2.04)										
Conc.	3.41		Conc.	0		Conc.	0				
EMPC	3.41		EMPC	0		EMPC	3.39				

Checkcode: 829-408-LBW

Report Created: 04-Aug-2011 13:14 Analyst: AP

Sample ID: T1 R1 Acetone/MeCl2

Method WHO-2

Client Data		Sample Data		Laboratory Data	
Name:	Pace Analytical Service	Matrix:	Air	Lab Project ID:	A3402
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_006
Date Collected:	n/a	Split:	2	QC Batch No:	8892
				Dilution:	-
				Date Received:	29-Jul-2011
				Date Extracted:	30-Jul-2011
				Date Analyzed:	03-Aug-2011
				Time Analyzed:	02:23:45


Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	Recovery
PCB-77 33'44'-TeCB	71.5				ES PCB-77	103
PCB-81 344'5'-TeCB	ND	16.6			ES PCB-81	101
PCB-105 233'44'-PeCB	132				ES PCB-105	114
PCB-114 2344'5'-PeCB	EMPC		18.6	J	ES PCB-114	112
PCB-118 23'44'5'-PeCB	265				ES PCB-118	116
PCB-123 2'344'5'-PeCB	ND	14.4			ES PCB-123	102
PCB-126 33'44'5'-PeCB	ND	22.1			ES PCB-126	106
PCB-156 233'44'5'-HxCB	EMPC		19.2	J	ES PCB-156	102
PCB-157 233'44'5'-HxCB	ND	7.58			ES PCB-157	103
PCB-167 23'44'55'-HxCB	ND	6.75			ES PCB-167	103
PCB-169 33'44'55'-HxCB	ND	12.9			ES PCB-169	92.3
PCB-189 233'44'55'-HpCB	ND	14.3			ES PCB-189	96.4

TEQs			WHO-1998			WHO-2005	
ITEF + WHO-2005							
	Conc.	EMPC		Conc.	EMPC	Conc.	EMPC
DF+PCB (ND=0)	0.0757	0.266	PCB (ND=0)	0.0469	0.0658	0.0191	0.0202
DF+PCB (ND=DL/2)	4.62	4.72	PCB (ND=DL/2)	1.23	1.24	1.32	1.32
DF+PCB (ND=DL)	9.16	9.17	PCB (ND=DL)	2.41	2.41	2.62	2.62
DF+PCB (< J-level=0)	0.0191	0.21	PCB (< J-level = 0)	0.0469	0.0658	0.0191	0.0202
ITEF + WHO-1998							
DF+PCB (ND=0)	0.104	0.312	DF+PCB (ND=0)	0.0874	0.296	0.0632	0.254
DF+PCB (ND=DL/2)	4.52	4.64	DF+PCB (ND=DL/2)	5.15	5.27	5.06	5.16
DF+PCB (ND=DL)	8.94	8.96	DF+PCB (ND=DL)	10.2	10.2	10.1	10.1
DF+PCB (< J-level=0)	0.0469	0.255	DF+PCB (< J-level=0)	0.0469	0.255	0.0191	0.21

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Sample ID: T1 R1 Acetone/MeCl2			TEQ Summary		Method WHO-2	
Client Project Name: Pace Analytical Services			Matrix: Air		Lab Sample ID: A3402_8892_W2_006	
Client Project ID: FHR-ICR			Weight/Volume: 1		QC Batch No.: 8892	
Date Collected: n/a			Split: 2		Date Extracted: 30-Jul-2011	
Date Received: 29-Jul-2011			Dilution: -		Date Analyzed: 03-Aug-2011 02:23	
Lab Project No: A3402			Units pg			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(2.54)		2.54	(2.54)	(2.54)	(2.54)
12378-PeCDD	(2.6)		2.6	(1.3)	(2.6)	(2.6)
123478-HxCDD	(2.55)		2.55	(0.255)	(0.255)	(0.255)
123678-HxCDD	(2.47)		2.47	(0.247)	(0.247)	(0.247)
123789-HxCDD	(2.62)		2.62	(0.262)	(0.262)	(0.262)
1234678-HpCDD	[5.01]	J	2.86	[0.0501]	[0.0501]	[0.0501]
OCDD	17.9	J	6.64	0.0179	0.00179	0.00537
2378-TCDF	(2.04)		2.04	(0.204)	(0.204)	(0.204)
12378-PeCDF	(1.93)		1.93	(0.0965)	(0.0965)	(0.0579)
23478-PeCDF	(1.77)		1.77	(0.885)	(0.885)	(0.531)
123478-HxCDF	(1.47)		1.47	(0.147)	(0.147)	(0.147)
123678-HxCDF	[1.4]	J	1.47	[0.14]	[0.14]	[0.14]
234678-HxCDF	(1.48)		1.48	(0.148)	(0.148)	(0.148)
123789-HxCDF	(1.88)		1.88	(0.188)	(0.188)	(0.188)
1234678-HpCDF	3.88	J	1.67	0.0388	0.0388	0.0388
1234789-HpCDF	(2.65)		2.65	(0.0265)	(0.0265)	(0.0265)
OCDF	(5.82)		5.82	(0.00582)	(0.000582)	(0.00175)
 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			TEQ Summaries			
			EMPC = 0, ND = 0		0.0566	0.0405
			EMPC = 0, ND = DL / 2		3.3	3.93
			EMPC = 0, ND = DL		6.54	7.82
			EMPC = 0, < J-level = 0		0	0
			EMPC = EMPC, ND = 0		0.246	0.23
			EMPC = EMPC, ND = DL / 2		3.4	4.03
			EMPC = EMPC, ND = DL		6.55	7.83
			EMPC = EMPC, < J-level = 0		0.19	0.19

Checkcode: 829-408-LBW

AP WHO-2 2010 Rev. A

Sample ID: T1 R3 Acetone/MeCl2

Method WHO-2

Client Data		Sample Data		Laboratory Data			
Name:	Pace Analytical Services	Matrix:	Air	Lab Project ID:	A3402	Date Received:	29-Jul-2011
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID	A3402_8892_W2_007	Date Extracted:	30-Jul-2011
Date Collected:	n/a			QC Batch No:	8892	Date Analyzed:	03-Aug-2011
		Split:	2	Dilution:	-	Time Analyzed:	03:11:51
Analyte	Conc. (pg)	DL (pg)	EMPC (pg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	2.46			ES 2378-TCDD	93.1	
12378-PeCDD	ND	2.95			ES 12378-PeCDD	95.2	
123478-HxCDD	ND	2.43			ES 123478-HxCDD	93.4	
123678-HxCDD	ND	2.6			ES 123678-HxCDD	94.5	
123789-HxCDD	ND	2.94			ES 123789-HxCDD	95.1	
1234678-HpCDD	8.38			J	ES 1234678-HpCDD	94.3	
OCDD	26.7			J	ES OCDD	93.1	
2378-TCDF	ND	1.84			ES 2378-TCDF	95.6	
12378-PeCDF	ND	2.04			ES 12378-PeCDF	92.9	
23478-PeCDF	ND	1.87			ES 23478-PeCDF	92.1	
123478-HxCDF	EMPC		2.18	J	ES 123478-HxCDF	95.4	
123678-HxCDF	2.91			J	ES 123678-HxCDF	93.2	
234678-HxCDF	2.94			J	ES 234678-HxCDF	91.8	
123789-HxCDF	ND	1.86			ES 123789-HxCDF	92.7	
1234678-HpCDF	8.29			J	ES 1234678-HpCDF	93.5	
1234789-HpCDF	ND	2.69			ES 1234789-HpCDF	93.5	
OCDF	EMPC		5.7	J	ES OCDF	91.9	
Totals					Standard	SS/AS Recoveries	
Total TCDD	ND		2.7		SS 37Cl-2378-TCDD	n/a	
Total PeCDD	ND		8.8		SS 12347-PeCDD	n/a	
Total HxCDD	ND		11.7		SS 12346-PeCDF	n/a	
Total HpCDD	17.4		17.4		SS 123469-HxCDF	n/a	
					SS 1234689-HpCDF	n/a	
Total TCDF	3.89		3.89		AS 1368-TCDD	95.5	
Total PeCDF	ND	1.95	ND		AS 1368-TCDF	97.6	
Total HxCDF	14.7		19				
Total HpCDF	8.29		8.29				
Total PCDD/Fs	71		104				
ITEF TEQs							
TEQ: ND=0	0.778		1				
TEQ: ND=DL/2	3.94	3.34	4.08				
TEQ: ND=DL	7.1	6.68	7.16				



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Sample ID: T1 R3 Acetone/MeCl2

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name:	Pace Analytical Services		Matrix:	Air		Lab Project ID:	A3402		Date Received:	29-Jul-2011	
Project ID:	FHR-ICR		Weight/Volume:	1		Lab Sample ID:	A3402_8892_W2_007		Date Extracted:	30-Jul-2011	
Date Collected:	n/a		Split:	2		QC Batch No.:	8892		Date Analyzed:	03-Aug-2011	
						Dilution:	-		Time Analyzed:	03:11:51	

Tetra-Dioxins	Conc. (pg)	Qualifiers	Penta-Dioxins	Conc. (pg)	Qualifiers	Hexa-Dioxins	Conc (pg)	Qualifiers	Hepta-Dioxins	Conc (pg)	Qualifiers
1368D	[2.7]	J	12479/12468D	[4.88]	J	124679/124689D	(2.65)		1234679D	9	J
1379D	(2.46)		12469D	(2.95)		123468D	[7.68]	J	1234678D	8.38	J
1369D	(2.46)		12368D	[3.91]	J	123679/123689D	[4.05]	J			
1469D	(2.46)		12478D	(2.95)		123469D	(2.65)				
1247D...[4]	(2.46)		12379D	(2.95)		123478D	(2.43)				
1378D	(2.46)		12369D...[3]	(2.95)		123678D	(2.6)				
1268D	(2.46)		12346/12347D	(2.95)		123467D	(2.65)				
1478D	(2.46)		12378D	(2.95)		123789D	(2.94)		Conc.	17.4	
1279D	(2.46)		12367D	(2.95)					EMPC	17.4	
1234/1269D	(2.46)		12389D	(2.95)							
1236D	(2.46)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	(2.46)									(pg)	
1239D	(2.46)								OCDD	26.7	J
2378D	(2.46)										
1278D	(2.46)										
1267D	(2.46)										
1289D	(2.46)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	2.7		EMPC	8.8		EMPC	11.7				



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ITEF TEQs	Conc.	EMPC
TEQ: ND=0	0.778	1
TEQ: ND=DL/2	3.94	4.08
TEQ: ND=DL	7.1	7.16
Total PCDD/Fs	Conc.	EMPC
	71	104

Checkcode: 925-490-LYY

Report Created: 04-Aug-2011 13:14 Analyst: AP

Sample ID: T1 R3 Acetone/MeCl2

Method WHO-2

Client Data			Sample Data			Laboratory Data					
Name: Pace Analytical Services			Matrix: Air			Lab Project ID: A3402			Date Received: 29 Jul 2011		
Project ID: FHR-ICR			Weight/Volume: 1			Lab Sample ID: A3402_8892_W2_007			Date Extracted: 30 Jul 2011		
Date Collected: n/a			Split: 2			QC Batch No.: 8892			Date Analyzed: 03 Aug 2011		
						Dilution: -			Time Analyzed: 03:11:51		
Tetra-Furans	Conc.	Qualifiers	Penta-Furans	Conc.	Qualifiers	Hexa-Furans	Conc	Qualifiers	Hepta-Furans	Conc	Qualifiers
	(pg)			(pg)			(pg)			(pg)	
1368F	(1.84)		13468/12468F	(2.53)		123468F	[2.07]	J	1234678F	8.29	J
1468F	(1.84)		13678F...[3]	(1.95)		124678/134678F	5.08	J	1234679F	(2.21)	
2468F	(1.84)		12368F...[3]	(1.95)		134679F	(1.6)		1234689F	(2.21)	
1346/1246F	(1.84)		14678F	(1.95)		124679F	(1.6)		1234789F	(2.69)	
1347F...[3]	(1.84)		13479F	(1.95)		124689F	(1.6)				
1348F	(1.84)		13469/12479F	(1.95)		123467F	3.82	J			
1248F...[3]	(1.84)		12346F	(1.95)		123478F	[2.18]	J			
1268F	(1.84)		23468/12469F	(1.95)		123678F	2.91	J			
1467F	(1.84)		12347F	(1.95)		123479F	(1.6)				
1478F	(1.84)		12348F	(1.95)		123469F	(1.6)				
1369/1237F	(1.84)		12378F	(2.04)		123679F	(1.6)				
2467F	(1.84)		12678/12367F	(1.95)		234678F	2.94	J	Conc.	8.29	
2368F	(1.84)		12379F	(1.95)		234678/123689F	(1.51)		EMPC	8.29	
1238F...[5]	3.89	J	12679F	(1.95)		123689F	(1.6)				
1278F	(1.84)		23467/12369F	(1.95)		123789F	(1.86)		Octa-Furan	Conc	Qualifiers
1349F	(1.84)		23478F	(1.87)		123789/123489F	(1.86)			(pg)	
1267F	(1.84)		23478/12489F	(1.87)		123489F	(1.6)		OCDF	[5.7]	J
2346/1249F	(1.84)		12489F	(1.95)							
2347/1279F	(1.84)		12349F	(1.95)							
2348F	(1.84)		12389F	(1.95)							
2378F	(1.84)										
2367/3467F	(1.84)										
1269F	(1.84)										
1239F	(1.84)										
1289F	(1.84)										
Conc.	3.89		Conc.	0		Conc.	14.7				
EMPC	3.89		EMPC	0		EMPC	19				

Checkcode: 925-490-LYY

Report Created: 04-Aug-2011 13:14 Analyst: AP

Sample ID: T1 R3 Acetone/MeCl2

Method WHO-2

Client Data		Sample Data		Laboratory Data	
Name:	Pace Analytical Service	Matrix:	Air	Lab Project ID:	A3402
Project ID:	FHR-ICR	Weight/Volume:	1	Lab Sample ID:	A3402_8892_W2_007
Date Collected:	n/a	Split:	2	QC Batch No:	8892
				Dilution:	-
				Date Received:	29-Jul-2011
				Date Extracted:	30-Jul-2011
				Date Analyzed:	03-Aug-2011
				Time Analyzed:	03:11:51


Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	Recovery
PCB-77 33'44'-TeCB	81.3				ES PCB-77	117
PCB-81 344'5'-TeCB	ND	13.1			ES PCB-81	114
PCB-105 233'44'-PeCB	125				ES PCB-105	124
PCB-114 2344'5'-PeCB	16.3			J	ES PCB-114	124
PCB-118 23'44'5'-PeCB	261				ES PCB-118	122
PCB-123 2'344'5'-PeCB	ND	11			ES PCB-123	124
PCB-126 33'44'5'-PeCB	ND	16.6			ES PCB-126	120
PCB-156 233'44'5'-HxCB	21				ES PCB-156	124
PCB-157 233'44'5'-HxCB	ND	8.13			ES PCB-157	120
PCB-167 23'44'55'-HxCB	10.1			J	ES PCB-167	122
PCB-169 33'44'55'-HxCB	ND	11.2			ES PCB-169	114
PCB-189 233'44'55'-HpCB	ND	13.1			ES PCB-189	114

TEQs			WHO-1998			WHO-2005	
ITEF + WHO-2005							
	Conc.	EMPC		Conc.	EMPC	Conc.	EMPC
DF+PCB (ND=0)	0.799	1.02	PCB (ND=0)	0.0655	0.0655	0.0211	0.0211
DF+PCB (ND=DL/2)	4.96	5.11	PCB (ND=DL/2)	0.955	0.955	1.02	1.02
DF+PCB (ND=DL)	9.13	9.19	PCB (ND=DL)	1.85	1.85	2.02	2.02
DF+PCB (< J-level=0)	0.0203	0.244	PCB (< J-level = 0)	0.0572	0.0572	0.0203	0.0203
ITEF + WHO-1998							
DF+PCB (ND=0)	0.843	1.07	DF+PCB (ND=0)	0.819	1.04	0.78	1
DF+PCB (ND=DL/2)	4.9	5.04	DF+PCB (ND=DL/2)	5.61	5.75	5.47	5.61
DF+PCB (ND=DL)	8.95	9.01	DF+PCB (ND=DL)	10.4	10.5	10.2	10.2
DF+PCB (< J-level=0)	0.0572	0.281	DF+PCB (< J-level=0)	0.0572	0.276	0.0203	0.24

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Sample ID: T1 R3 Acetone/MeCl2			TEQ Summary		Method WHO-2	
Client Project Name: Pace Analytical Services			Matrix: Air		Lab Sample ID: A3402_8892_W2_007	
Client Project ID: FHR-ICR			Weight/Volume: 1		QC Batch No.: 8892	
Date Collected: n/a			Split: 2		Date Extracted: 30-Jul-2011	
Date Received: 29-Jul-2011			Dilution: -		Date Analyzed: 03-Aug-2011 03:11	
Lab Project No: A3402			Units: pg			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(2.46)		2.46	(2.46)	(2.46)	(2.46)
12378-PeCDD	(2.95)		2.95	(1.48)	(2.95)	(2.95)
123478-HxCDD	(2.43)		2.43	(0.243)	(0.243)	(0.243)
123678-HxCDD	(2.6)		2.6	(0.26)	(0.26)	(0.26)
123789-HxCDD	(2.94)		2.94	(0.294)	(0.294)	(0.294)
1234678-HpCDD	8.38	J	2.8	0.0838	0.0838	0.0838
OCDD	26.7	J	5.48	0.0267	0.00267	0.00802
2378-TCDF	(1.84)		1.84	(0.184)	(0.184)	(0.184)
12378-PeCDF	(2.04)		2.04	(0.102)	(0.102)	(0.0612)
23478-PeCDF	(1.87)		1.87	(0.935)	(0.935)	(0.561)
123478-HxCDF	[2.18]	J	1.55	[0.218]	[0.218]	[0.218]
123678-HxCDF	2.91	J	1.51	0.291	0.291	0.291
234678-HxCDF	2.94	J	1.51	0.294	0.294	0.294
123789-HxCDF	(1.86)		1.86	(0.186)	(0.186)	(0.186)
1234678-HpCDF	8.29	J	1.82	0.0829	0.0829	0.0829
1234789-HpCDF	(2.69)		2.69	(0.0269)	(0.0269)	(0.0269)
OCDF	[5.7]	J	5.18	[0.0057]	[0.00057]	[0.00171]
 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			TEQ Summaries			
			EMPC = 0, ND = 0		0.778	0.754
			EMPC = 0, ND = DL / 2		3.94	4.65
			EMPC = 0, ND = DL		7.1	8.55
			EMPC = 0, < J-level = 0		0	0
			EMPC = EMPC, ND = 0		1	0.972
			EMPC = EMPC, ND = DL / 2		4.08	4.79
			EMPC = EMPC, ND = DL		7.17	8.61
			EMPC = EMPC, < J-level = 0		0.224	0.219

Checkcode: 925-490-LYY

AP WHO-2 2010 Rev. A

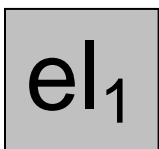
Pace Analytical
1700 Elm St. #200
Minneapolis, MN 55414

Project Number: 1108-200

Mercury

Ontario Hydro Method Analysis

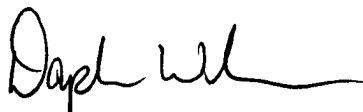
Analytical Report
17096



Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX:910-792-6853 e1lab@e1lab.com

The following data for Analytical Report 17096
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:



Daphne Woodman, Chemist
August 8, 2011

Report Reviewed and Finalized By:



Ken Smith, Laboratory Director
August 8, 2011

SUMMARY OF RESULTS

Summary of Analysis

Summary of OHM Mercury Analysis

Run Number		Average Total Catch, µg	Filter µg	FH Rinse µg	KCl µg	H ₂ O ₂ /HNO ₃ µg	KMnO ₄ µg
-----	-----	-----	-----	-----	-----	-----	-----
T1-R1	# 1	0.052	< 0.005	< 0.01	< 0.1	< 0.013	0.055
	# 2		< 0.005	< 0.01	< 0.1	< 0.013	0.050
T1-R2	# 1	0.281	< 0.005	< 0.015	< 0.09	< 0.013	0.286
	# 2		< 0.005	< 0.015	< 0.09	< 0.013	0.275
T1-R3	# 1	0.024	< 0.005	< 0.015	< 0.09	< 0.013	0.049
	# 2		< 0.005	< 0.015	< 0.09	< 0.013	< 0.045
Field Blank	# 1	< 0.06	< 0.005	< 0.01	< 0.06	< 0.013	< 0.03
	# 2		< 0.005	< 0.01	< 0.06	< 0.013	< 0.03
Reagent Blank	# 1	< 0.05	< 0.005	< 0.01	< 0.05	< 0.013	< 0.025
	# 2		< 0.005	< 0.01	< 0.05	< 0.013	< 0.025

ANALYTICAL NARRATIVE

Element One Analytical Narrative

Client:	Pace Analytical	Element One #:	17096
Client ID:	1108-200/FHR ICR	Analyst:	KLS
Method:	OHM	Dates Received:	07/29-30/11
Analytes:	Hg	Dates Analyzed:	08/02-03/11

Summary of Analysis

The Ontario Hydro Method (OHM) samples were prepared and analyzed according to method protocol. Samples were analyzed for mercury on a PS Analytical Millennium Galahad CVAF analyzer or a PerkinElmer FIMS-100 CVAA mercury analyzer.

Ontario Hydro Mercury Catch Summary

The Ontario Hydro Method employs five different fractions to collect mercury in its various states in a flue gas stream. Particle-bound mercury is collected in the filter and front-half rinse. Oxidized mercury (Hg_2^{2+} and Hg^{2+}) is collected in the potassium chloride (KCl) fraction. The acidified hydrogen peroxide ($\text{H}_2\text{O}_2/\text{HNO}_3$) and potassium permanganate (KMnO_4) fractions are utilized to collect elemental mercury (Hg^0). Total mercury refers to all mercury, however generated or entrained, in the flue gas stream.

Detection Limits

The Ontario Hydro Method Millennium Galahad CVAF instrument reporting limit for mercury was 0.001 μg per aliquot analyzed, which is 0.05 $\mu\text{g}/\text{L}$ for a 20 ml aliquot.

Analysis QA/QC

Duplicate analyses relative percent difference (RPD), triplicate analysis relative standard deviation (RSD), and spike sample recovery are summarized in the Quality Control Section. All QA/QC data was within the criteria of the method.

Additional Comments

The reported results have not been corrected for any blank values or spike recovery values.

QUALITY CONTROL SUMMARY

Summary of Quality Control Data

Mercury Duplicate Analysis RPD

(OHM QC limits: $\pm 10\%$ for RPD)

Run Number	Filter	FH Rinse	KCl	H ₂ O ₂ /HNO ₃	KMnO ₄
-----	-----	-----	-----	-----	-----
T1-R1	NA	NA	NA	NA	10.0%
T1-R2	NA	NA	NA	NA	4.0%
T1-R3	NA	NA	NA	NA	NA
Field Blank	NA	NA	NA	NA	NA
Reagent Blank	NA	NA	NA	NA	NA

Mercury Triplicate Analysis RSD

(OHM QC limits: $\pm 10\%$ for RSD)

Run Number	Filter	FH Rinse	KCl	H ₂ O ₂ /HNO ₃	KMnO ₄
-----	-----	-----	-----	-----	-----
T1-R2 Trip	NA	NA	NA	NA	2.2%

Mercury Spike Recoveries

(QC limits: $\pm 25\%$ for Spike Recoveries)

Run Number		Filter	FH Rinse	KCl	H ₂ O ₂ /HNO ₃	KMnO ₄
-----		-----	-----	-----	-----	-----
T1-R3	# 1	118%	101%	101%	99%	99%
	# 2	116%	101%	99%	104%	95%

SAMPLE CUSTODY

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

17096

Page: 1 of 1
925968

Section A

Required Client Information:

Section B

Required Project Information:

Section C

Invoice Information:

Company: PALE ANK VIBOL	Report To: THANZ TROWANAW	Attention: CS REVIEW
Address: 1700 ELM ST	Copy To: TERY BURKEND	Company Name: PALE FRED
Email To: MINNAPALI, NW 55414	Purchase Order No.: 1108-200	Address: 1700 Elm St
Phone: 612 759 7510	For: 612 607 6444	Pace Quote Reference: ---
Requested Due Date/TAT: 9/25/11	Project Name: FHR ECR	Pace Project Manager: ---
	Project Number: 1108-200	Pace Profile #: ---

REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA
<input type="checkbox"/> DRINKING WATER	
Other: USEPA	
SITE LOCATION	
<input type="checkbox"/> GA	<input type="checkbox"/> IL
<input type="checkbox"/> OH	<input type="checkbox"/> IN
<input type="checkbox"/> SC	<input type="checkbox"/> WI
OTHER: ---	

ITEM #	Section D Required Client Information	Matrix Codes	CODE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preserved	Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project Number Lab ID
1	T / R O	M O B I		7-27-11	830	---	---	---	1	X	+		
2	T / R I	M O B I		7-27-11	830	---	---	---	1	X	+		
3	T / R 2	M O B I		7-27-11	830	---	---	---	1	X	+		
4	T / R 3	M O B I		7-27-11	830	---	---	---	1	X	+		
5	T / R 00	M O B I		7-27-11	830	---	---	---	1	X	+		
6	T / R 0	M O B I		7-27-11	830	---	---	---	1	X	+		
7	T / R 1	M O B I		7-27-11	830	---	---	---	1	X	+		
8	T / R 2	M O B I		7-27-11	830	---	---	---	1	X	+		
9	T / R 3	M O B I		7-27-11	830	---	---	---	1	X	+		
10	T / R 00	M O B I		7-27-11	830	---	---	---	1	X	+		
11													
12													

Additional Comments:

*"RUSH" S O A Y ?

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE		DATE	TIME	DATE	TIME	DATE	TIME
PRINT Name of SAMPLER: TERY BURKEND		7-27-11		7-27-11		1030	
SIGNATURE of SAMPLER: <i>[Signature]</i>							
DATE Signed (MM/DD/YY)		7-27-11					
Temp in °C							
Received on Ice	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Custody Sealed Cooler	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Samples Intact	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

ALL0020Rev:3.31MAR05

ANALYTICAL DATA

elementOne

AIR TESTING SAMPLE SUBMISSION FORM

Lab ID 17096

RUSH----5 DAY TAT

Analysis Due Date 08.03.11

QA/QC/Report Due Date 08.04.11

Client	Pace Analytical
Project No	1108-200
Project ID	FHR ICR

Date Rec	07.29.11
Time Rec	1030
Rec by	LLB

HNO ₃ Lot: 50322	BrK Lot: 080311-1 / 071311-4	Volume Marked Y <input checked="" type="checkbox"/> N	Ref. Method: OHM
HF Lot: 510896	KBrO ₃ Lot: 080311-2 / 071311-5	Volume Loss Y / N / ?	
HCl Lot: 51035		pH < 2.0 <input checked="" type="checkbox"/> N	

Sample Identification

6	T1-OHM-R1	9	Field Blank
7	T1-OHM-R2	10	Reagent Blank
	T1-OHM-R2 Triplicate		
8	T1-OHM-R3		
	T1-OHM-R3 Spike		
Analyses Requested		Samples 6-10 Hg	

Run / FB	Fil (C1) / Ace (C2a)		FH HNO ₃ Rinse (C2)			KCl (C3)		H ₂ O ₂ /HNO ₃ (C4)		KMnO ₄ (C5)	
	pH < 2.0 <input checked="" type="checkbox"/> N		pH < 2.0 <input checked="" type="checkbox"/> N			pH < 2.0 <input checked="" type="checkbox"/> N		pH < 2.0 <input checked="" type="checkbox"/> N		pH < 2.0 <input checked="" type="checkbox"/> N	
Lab ID.	Fil ID	BV, ml	BV, ml	FV, ml	BV, ml	FV, ml	BV, ml	FV, ml	BV, ml	FV, ml	FV, ml
6			170	200	930	1000	190	250	54720	800	
7.T			240	300	800	900	150	250	720	800	
8.S			230	300	870	900	170	250	860	900	
9			100	200	520	600	170	250	510	600	

Reagent Blank

Lab ID	**MC	Fraction	pH	BV, ml	FV, ml	Comments
10.1	C12	Filter Blank				
10.2	C7	0.1N HNO ₃		110		
10.3	C8	1.0 N KCl		100		
10.4	C9	5% HNO ₃ / 10% H ₂ O ₂		100		
10.5	C10	KMnO ₄ /H ₂ SO ₄		110		
10.6	C11	NH ₂ OH.HCl or SO ₄				
10.7		10% HNO ₃				
10.8		DI H ₂ O				
10.9		HNO ₃ /H ₂ O ₂				
10.10		5% KMnO ₄				
10.11		Quartz Thimble				

Lab Communications

SS Page 2 of 3

7/29/2011 3:39:36 PM

SS Form By

Labeled by

Filter Prep By/Date 7/29/11 H₂O₂/HNO₃ Prep By/Date 7/29/11FH Prep By/Date 7/29/11 KMnO₄ Prep By/Date 7/29/11

KCl Prep By/Date 7/29/11 ID Verification By/Date 8.1.11

elementOne

17096-PACE OHM Report Packet.doc

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PS Analytical Millennium Galahad CVAF Analyzer

Sample ID	Inj	Conc	Pk Ht	Pk Area	Baseline	Slope	Intercept	Alq	Vol	Date/Time
0		0	0.562246	20.532331	0.030848	0	0	----	----	8/2/2011 15:13
0.001		0.001	8.478292	483.796936	-0.079938	7916.045898	0.562246	----	----	8/2/2011 15:15
0.002		0.002	16.22603	896.466614	-0.1878	7831.891602	0.590297	----	----	8/2/2011 15:17
0.004		0.004	33.714859	1825.891724	-0.704567	8293.975586	0.230899	----	----	8/2/2011 15:19
0.02		0.02	177.987091	9997.222656	-0.769804	8924.061523	-0.796227	----	----	8/2/2011 15:22
0.04		0.04	368.860687	20774.94727	-0.926337	9211.62793	-1.891638	----	----	8/2/2011 15:25
BLANK		0.0004	1.38464	-840.864258	-1.38464	9211.62793	-1.891638	1	1	8/2/2011 15:28
DL 0.001		0.0013	9.729689	555.889709	-0.135221	9211.62793	-1.891638	1	1	8/2/2011 15:30
QC 2		0.0211	192.683868	11042.66113	-0.419319	9211.62793	-1.891638	1	1	8/2/2011 15:33
QC 3		0.0213	193.854492	10865.16406	-0.873199	9211.62793	-1.891638	1	1	8/2/2011 15:36
QC 2		0.0195	177.909729	9872.234375	-2.942079	9211.62793	-1.891638	1	1	8/2/2011 16:31
DL 0.001		0.0007	4.792785	-1933.94055	-4.792785	9211.62793	-1.891638	1	1	8/2/2011 16:34
BLANK		0.0002	0.31076	-210.635666	-0.31076	9211.62793	-1.891638	1	1	8/2/2011 16:36
17096-6.1	#1	0.0025	2.693645	-1571.85596	-2.693645	9211.62793	-1.891638	10	50	8/2/2011 17:27
17096-6.1	#2	0.0013	0.584737	3.393741	-0.108015	9211.62793	-1.891638	10	50	8/2/2011 17:30
17096-7.1	#1	0.0034	4.32688	245.544235	-0.343878	9211.62793	-1.891638	10	50	8/2/2011 17:32
17096-7.1	#2	0.0028	3.258625	165.789871	-0.007229	9211.62793	-1.891638	10	50	8/2/2011 17:34
17096-7.1 trp	#1	0.0021	2.013992	92.683037	-0.174095	9211.62793	-1.891638	10	50	8/2/2011 17:36
17096-7.1 trp	#2	0.0023	2.291492	112.199081	-0.09479	9211.62793	-1.891638	10	50	8/2/2011 17:39
17096-8.1	#1	0.0042	5.839276	317.314362	-0.07198	9211.62793	-1.891638	10	50	8/2/2011 17:41
17096-8.1	#2	0.0038	5.114575	254.504318	-0.017704	9211.62793	-1.891638	10	50	8/2/2011 17:43
QC 2		0.0208	189.757492	11229.76758	-0.229575	9211.62793	-1.891638	1	1	8/2/2011 17:45
DL 0.001		0.0008	5.112061	150.275177	-0.767395	9211.62793	-1.891638	1	1	8/2/2011 17:49
BLANK		0.0003	0.45233	-174.517334	-0.424048	9211.62793	-1.891638	1	1	8/2/2011 17:51
17096-9.1	#1	0.0015	0.947824	-522.552124	-0.939485	9211.62793	-1.891638	10	50	8/2/2011 18:01
17096-9.1	#2	0.0014	0.64706	15.267724	-0.103992	9211.62793	-1.891638	10	50	8/2/2011 18:03
17096-10.1	#1	0.0021	1.993344	107.031578	0.172969	9211.62793	-1.891638	10	50	8/2/2011 18:05
17096-10.1	#2	0.002	1.786939	85.138786	-0.113317	9211.62793	-1.891638	10	50	8/2/2011 18:08
17096-6.2	#1	0.0029	0.736025	24.387222	-0.115526	9211.62793	-1.891638	20	200	8/2/2011 18:10
17096-6.2	#2	0.0031	0.982172	46.253559	-0.057169	9211.62793	-1.891638	20	200	8/2/2011 18:12
17096-7.2	#1	0.005	1.152106	66.385559	0.189905	9211.62793	-1.891638	20	300	8/2/2011 18:14
17096-7.2	#2	0.0047	1.010376	45.528072	-0.072182	9211.62793	-1.891638	20	300	8/2/2011 18:17
17096-7.2 trp	#1	0.0051	1.221251	65.592567	0.230486	9211.62793	-1.891638	20	300	8/2/2011 18:19
17096-7.2 trp	#2	0.0051	1.230039	63.807693	0.018915	9211.62793	-1.891638	20	300	8/2/2011 18:21
17096-8.2	#1	0.0078	2.879934	146.000809	-0.054929	9211.62793	-1.891638	20	300	8/2/2011 18:23
17096-8.2	#2	0.0072	2.539433	127.556473	0.137767	9211.62793	-1.891638	20	300	8/2/2011 18:26
17096-8.2 spk	#1	0.3032	184.319321	10860.51172	-0.071498	9211.62793	-1.891638	20	300	8/2/2011 18:28
17096-8.2 spk	#2	0.3029	184.142822	10777.50391	-0.544256	9211.62793	-1.891638	20	300	8/2/2011 18:32
17096-9.2	#1	0.003	0.830185	-559.208374	-0.830185	9211.62793	-1.891638	20	200	8/2/2011 18:35
17096-9.2	#2	0.0032	1.063172	44.120098	-0.141312	9211.62793	-1.891638	20	200	8/2/2011 18:37
17096-10.2	#1	0.0029	0.791973	40.783932	0.123653	9211.62793	-1.891638	20	200	8/2/2011 18:40
17096-10.2	#2	0.0029	0.82049	44.419373	0.051375	9211.62793	-1.891638	20	200	8/2/2011 18:42
QC 2		0.0206	187.490387	10970.47852	-0.085425	9211.62793	-1.891638	1	1	8/2/2011 18:44
DL 0.001		0.0009	6.180611	226.572128	-0.584473	9211.62793	-1.891638	1	1	8/2/2011 18:48
BLANK		0.0003	0.550853	-171.371429	-0.523578	9211.62793	-1.891638	1	1	8/2/2011 18:50
17096-6.3	#1	0.0506	2.767173	153.818481	0.035951	9211.62793	-1.891638	10	1000	8/2/2011 18:53
17096-6.3	#2	0.0434	2.108438	95.551132	-0.111566	9211.62793	-1.891638	10	1000	8/2/2011 18:55
17096-7.3	#1	0.0507	3.296174	172.269836	0.100707	9211.62793	-1.891638	10	900	8/2/2011 18:57
17096-7.3	#2	0.049	3.122859	164.082794	0.089642	9211.62793	-1.891638	10	900	8/2/2011 18:59

PS Analytical Millennium Galahad CVAF Analyzer

17096-7.3 trp	#1	0.0684	5.105139	265.184448	-0.148878	9211.62793	-1.891638	10	900	8/2/2011 19:01
17096-7.3 trp	#2	0.0645	4.705208	225.677887	-0.292709	9211.62793	-1.891638	10	900	8/2/2011 19:04
17096-8.3	#1	0.0354	1.732017	54.793667	-0.391395	9211.62793	-1.891638	10	900	8/2/2011 19:06
17096-8.3	#2	0.0413	2.335066	112.134987	0.027429	9211.62793	-1.891638	10	900	8/2/2011 19:08
17096-8.3 spk	#1	1.8157	183.952484	10699.22559	0.028743	9211.62793	-1.891638	10	900	8/2/2011 19:10
17096-8.3 spk	#2	1.7818	180.479279	10678.70313	-0.581848	9211.62793	-1.891638	10	900	8/2/2011 19:14
17096-9.3	#1	0.0182	0.909388	-603.583496	-0.909388	9211.62793	-1.891638	10	600	8/2/2011 19:18
17096-9.3	#2	0.0169	0.702147	21.602173	-0.015204	9211.62793	-1.891638	10	600	8/2/2011 19:20
17096-10.3	#1	0.0141	0.709054	36.325466	0.040953	9211.62793	-1.891638	10	500	8/2/2011 19:22
17096-10.3	#2	0.0136	0.613755	23.017994	0.348746	9211.62793	-1.891638	10	500	8/2/2011 19:24
17096-6.4	#1	0.0065	2.882227	167.665375	-0.029093	9211.62793	-1.891638	20	250	8/2/2011 19:27
17096-6.4	#2	0.0059	2.442061	126.040642	-0.076445	9211.62793	-1.891638	20	250	8/2/2011 19:29
17096-7.4	#1	0.0069	3.160432	167.436234	-0.101083	9211.62793	-1.891638	20	250	8/2/2011 19:31
17096-7.4	#2	0.0066	2.955503	154.678635	-0.018003	9211.62793	-1.891638	20	250	8/2/2011 19:33
17096-7.4 trp	#1	0.0076	3.691757	206.292755	0.070733	9211.62793	-1.891638	20	250	8/2/2011 19:36
17096-7.4 trp	#2	0.0069	3.211126	155.193893	-0.026762	9211.62793	-1.891638	20	250	8/2/2011 19:38
QC 2		0.0213	194.61174	11468.67188	-0.124679	9211.62793	-1.891638	1	1	8/2/2011 19:40
DL 0.001		0.0009	6.527052	250.053085	-0.506834	9211.62793	-1.891638	1	1	8/2/2011 19:44
BLANK		0.0003	0.479345	-172.983948	-0.479345	9211.62793	-1.891638	1	1	8/2/2011 19:46
17096-8.4	#1	0.0111	6.253137	376.853851	0.083998	9211.62793	-1.891638	20	250	8/2/2011 19:49
17096-8.4	#2	0.0094	5.027283	254.218689	0.036689	9211.62793	-1.891638	20	250	8/2/2011 19:51
17096-8.4 spk	#1	0.2482	181.03006	10845.44434	-0.073489	9211.62793	-1.891638	20	250	8/2/2011 19:53
17096-8.4 spk	#2	0.2592	189.124771	10744.21973	-0.844585	9211.62793	-1.891638	20	250	8/2/2011 19:57
17096-9.4	#1	0.0037	0.801829	-563.801514	-0.801829	9211.62793	-1.891638	20	250	8/2/2011 20:00
17096-9.4	#2	0.0052	1.926777	81.867088	0.037181	9211.62793	-1.891638	20	250	8/2/2011 20:03
17096-10.4	#1	0.0106	5.94788	340.611664	0.01334	9211.62793	-1.891638	20	250	8/2/2011 20:05
17096-10.4	#2	0.0094	5.013544	245.787231	-0.039827	9211.62793	-1.891638	20	250	8/2/2011 20:07
17096-6.5	#2	0.0548	10.72603	549.885315	-0.497369	9211.62793	-1.891638	20	800	8/2/2011 20:12
17096-7.5 trp	#1	0.2858	63.913929	3493.209961	-1.483401	9211.62793	-1.891638	20	800	8/2/2011 20:19
17096-7.5 trp	#2	0.2762	61.714622	3308.432373	-1.88359	9211.62793	-1.891638	20	800	8/2/2011 20:22
17096-8.5	#1	0.0488	8.09593	136.204453	-2.128477	9211.62793	-1.891638	20	900	8/2/2011 20:24
17096-9.5	#1	0.0113	1.580496	-621.864075	-1.580496	9211.62793	-1.891638	20	600	8/2/2011 20:35
17096-9.5	#2	0.0115	1.632682	71.005684	0.021188	9211.62793	-1.891638	20	600	8/2/2011 20:37
QC 2		0.0216	197.196899	11444.25586	-0.215883	9211.62793	-1.891638	1	1	8/2/2011 20:40
DL 0.001		0.0009	6.462016	227.609695	-0.569743	9211.62793	-1.891638	1	1	8/2/2011 20:43
BLANK		0.0003	0.458501	-176.512344	-0.420651	9211.62793	-1.891638	1	1	8/2/2011 20:46
17096-lrb	#1	0.0017	1.282017	31.4797	0.547764	9211.62793	-1.891638	10	50	8/2/2011 20:52
17096-lrb	#2	0.0023	2.405943	118.375465	-0.38957	9211.62793	-1.891638	10	50	8/2/2011 20:55
17096-lrb spk	#1	2.3779	173.339645	9896.567383	0.065693	9211.62793	-1.891638	0.4	50	8/2/2011 20:57
17096-lrb spk	#2	2.2833	166.368164	9519.3125	-0.75769	9211.62793	-1.891638	0.4	50	8/2/2011 21:01
QC 3		0.0206	187.796799	10820.17383	-1.090181	9211.62793	-1.891638	1	1	8/2/2011 21:04
DL 0.001		0.0004	1.535343	-291.949524	-1.535343	9211.62793	-1.891638	1	1	8/2/2011 21:07
BLANK		0.0003	0.523443	-174.914886	-0.492361	9211.62793	-1.891638	1	1	8/2/2011 21:09
0		0	0.845469	48.361034	0.008497	0	0 ----	----		8/3/2011 15:00
0.001		0.001	9.554512	530.92865	-0.198265	8709.042969	0.845469 ----	----		8/3/2011 15:02
0.002		0.002	17.455013	921.425903	0.006381	8304.771484	0.980226 ----	----		8/3/2011 15:04
0.004		0.004	34.564732	1869.997192	-0.614003	8398.736328	0.907143 ----	----		8/3/2011 15:07
0.02		0.02	178.33606	9808.274414	-1.089574	8900.303711	0.089519 ----	----		8/3/2011 15:09
0.04		0.04	365.266479	20530.23633	-1.141499	9107.913086	-0.701318 ----	----		8/3/2011 15:12
BLANK		0.0003	1.691911	-829.551758	-1.691911	9107.913086	-0.701318	1	1	8/3/2011 15:15
DL 0.001		0.0012	10.436146	576.387695	-0.029896	9107.913086	-0.701318	1	1	8/3/2011 15:18
QC 2		0.0193	175.16449	9924.158203	-0.170323	9107.913086	-0.701318	1	1	8/3/2011 15:20

PS Analytical Millennium Galahad CVAF Analyzer

QC 3		0.0194	176.107285	9764.197266	-0.489951	9107.913086	-0.701318	1	1	8/3/2011 15:23
17096-8.1 spk	#1	0.1175	213.41362	12149.94043	0.108297	9107.913086	-0.701318	10	50	8/3/2011 15:31
17096-8.1 spk	#2	0.1155	209.697525	11832.74512	-0.436	9107.913086	-0.701318	10	50	8/3/2011 15:34
17096-6.5	#2	0.0496	10.591907	539.994934	-0.377749	9107.913086	-0.701318	20	800	8/3/2011 15:39
17096-7.5	#1	0.2863	64.490936	3734.204102	-0.250682	9107.913086	-0.701318	20	800	8/3/2011 15:42
17096-7.5	#2	0.2751	61.927319	3419.764404	-1.133769	9107.913086	-0.701318	20	800	8/3/2011 15:44
17096-8.5	#1	0.0341	6.205729	124.178452	-1.608851	9107.913086	-0.701318	20	900	8/3/2011 15:47
17096-8.5 spk	#1	0.9106	183.592148	10540.13965	-0.148394	9107.913086	-0.701318	20	900	8/3/2011 15:51
17096-10.5	#1	0.0058	1.419574	-475.657196	-1.419574	9107.913086	-0.701318	20	500	8/3/2011 15:58
17096-10.5	#2	0.0075	2.038702	73.316193	0.071009	9107.913086	-0.701318	20	500	8/3/2011 16:00
QC 3		0.0193	174.768402	10206.08008	0.07428	9107.913086	-0.701318	1	1	8/3/2011 16:02
DL 0.001		0.0008	6.633768	230.695587	-0.628634	9107.913086	-0.701318	1	1	8/3/2011 16:06
BLANK		0.0001	0.394136	-123.778625	-0.394136	9107.913086	-0.701318	1	1	8/3/2011 16:08

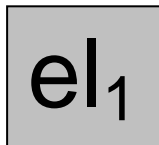
Pace Analytical
1700 Elm St. #200
Minneapolis, MN 55414

Project No: 1108-200

Chromium (VI)

EPA Method 0061 Analysis

Analytical Report
17096



Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX: 910-792-6853 e1lab@e1lab.com

The following data for Analytical Report 17096
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:

A handwritten signature in black ink, appearing to read 'Daph W.' with a long horizontal flourish.

Daphne Woodman, Chemist
August 8, 2011

Report Reviewed and Finalized By:

A handwritten signature in black ink, appearing to read 'Ken Smith' with a long horizontal flourish.

Ken Smith, Laboratory Director
August 8, 2011

SUMMARY OF RESULTS

Summary of Analysis

Summary of Chromium (VI) Analysis

Element	T1 - R1 e17096-11 Total µg	T1 -R2 e17096-12 Total µg	T1 -R2 e17096-12 dup Total µg	T1 -R3 e17096-13 Total µg
Chromium(VI)	0.312	< 0.178	< 0.178	< 0.162
Duplicate RPD, %	6.5%	NA	NA	NA
Spike Recovery, %	-----	-----	-----	110%

Element	Field Blank e17096-14 Total µg	Reagent Blank e17096-15 Total µg
Chromium(VI)	< 0.092	< 0.08
Duplicate RPD, %	NA	NA

ANALYTICAL NARRATIVE

Element One Analytical Narrative

Client:	Pace Analytical	Element One #:	17096
Client ID:	1108-200/FHR ICR	Analyst:	LAL
Method:	0061	Dates Received:	07/29-30/11
Analytes:	Chromium (VI)	Dates Analyzed:	08/03-05/11

Summary of Analysis

The samples were prepared and analyzed according to SW-846 Method 0061 protocol. Samples were analyzed for chromium (VI) using a Shimadzu 2010 HPLC unit and a Timberline RDR-1 Reaction Module.

Detection Limits

The Shimadzu 2010 HPLC instrument detection limit for chromium (VI) was 0.1µg/L.

Analysis QA/QC

Duplicate analyses relative percent difference (RPD) and spike sample recovery data are summarized with the results.

All QA/QC data was within the criteria of the method.

Additional Comments

The reported results have not been corrected for any blank values or spike recovery values. Due to matrix interferences it was necessary to analyze all samples at a two-fold dilution.

SAMPLE CUSTODY

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

17096

Page: 1 of 1
925968

Required Client Information:

Company: PALE ANK VIBOL Report To: THANZ TROWANAW Attention: CS REVIEW

Address: 1700 ELM ST Copy To: TERY BURKEND Company Name: PALE FRED

Email To: THANZ.TROWANAW@PALEANAL.COM Purchase Order No.: 1108-200 Address: 1700 ELM ST

Phone: 612 759 7510 Fax: 612 807 8444 Project Name: FHR ECR Pace Quote Reference: ---

Requested Due Date/TAT: 9/25/11 Project Number: 1108-200 Pace Project Manager: ---

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ Other: USEPA

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC

☐ OH ☐ SC ☐ WI ☐ OTHER: ---

ITEM #	Section D Required Client Information	Matrix Codes	CODE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preserved	Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project Number Lab ID
1	T / R O	M O B 61		7-27-11	830	---	---	---	1	X	+		
2	T / R 1	M O B 61		7-27-11	830	---	---	---	1	X	+		
3	T / R 2	M O B 61		7-27-11	830	---	---	---	1	X	+		
4	T / R 3	M O B 61		7-27-11	830	---	---	---	1	X	+		
5	T / R 00	M O B 61		7-27-11	830	---	---	---	1	X	+		
6	T / R 0	M O B 61		7-27-11	830	---	---	---	1	X	+		
7	T / R 1	M O B 61		7-27-11	830	---	---	---	1	X	+		
8	T / R 2	M O B 61		7-27-11	830	---	---	---	1	X	+		
9	T / R 3	M O B 61		7-27-11	830	---	---	---	1	X	+		
10	T / R 00	M O B 61		7-27-11	830	---	---	---	1	X	+		
11													
12													

Additional Comments:

*"RUSH" S O A Y ?

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

RELINQUISHED BY / AFFILIATION

DATE: 7-27-11 TIME: 830

ACCEPTED BY / AFFILIATION

DATE: 7-27-11 TIME: 1030

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TERY BURKEND

SIGNATURE of SAMPLER: ---

DATE Signed: 7-27-11

Temp in °C

Received on Ice: Y/N

Custody Sealed Cooler: Y/N

Samples Intact: Y/N

ANALYTICAL DATA

Analytical Calculations

Cr (VI)-

$$\text{Total Cr}^{+6} (\text{ug}) = \text{Cr}^{+6} \text{ Results } (\mu\text{g/L}) * \text{Dilution} * \text{Final Volume (mL)} / 1000$$

Where-

Cr^{+6} Results= Raw sample concentration (ppb)—*HPLC Data Sheet*

Dilution= $\frac{\text{Diluted Volume}}{\text{Aliquot}}$ —*HPLC Run Sheet*

Final Volume--*Sample Submission*

Analysis Due Date 08.03.11
QA/QC/Report Due Date 08.04.11

Client	Pace Analytical
Project No	1108-200
Project ID	FHR ICR

Date Rec	07.29.11
Time Rec	1030
Rec by	LLB

KOH Lot:	HNO ₃ Rinse pH < 2.0 Y / N	Volume Marked Y / N	Ref. Method: M0061
HNO ₃ Lot:		Volume Loss Y / N / ?	

Sample Identification

11	T1-M0061-R1	14	Field Blank		
12	T1-M0061-R2	15	Reagent Blank		
	T1-M0061-R2 Duplicate				
13	T1-M0061-R3				
	T1-M0061-R3 Spike				

Analyses Requested Samples 11-15 Hexavalent Chromium

Runs / FB

Lab ID	KOH (Imp 1-3)		HNO ₃ (Rinse)		Lab ID	KOH (Imp 1-3)		HNO ₃ (Rinse)		Lab ID	KOH (Imp 1-3)		HNO ₃ (Rinse)	
	BV, ml	pH	BV, ml	FV, ml		BV, ml	pH	BV, ml	FV, ml		BV, ml	pH	BV, ml	FV, ml
11	1040	9.72												
12.D	890	9.34												
13.S	810	8.86												
14	460	13.25												

Reagent Blank

Lab ID	Method Container ID	Fraction	pH	BV, ml	FV, ml
15	C4	0.1M KOH	13.31	400	
	C5	DI Blank			
	C6	0.1M HNO ₃			

Lab Communications

17096-11 pH = 9.70
17096-12 pH = 9.32
17096-13 pH = 8.85
17096-14 pH = 14.00
17096-15 pH = 13.83

SS Page 3 of 3

7/29/2011 2:37:42 PM

SS Form By JDS

Labeled by LLB

Cr⁶ Prep By/Date 7-29-11 LAL

T. Cr Prep By/Date 7-29-11

ID Verification By/Date LAL 7-29-11

Client: Pace
8/3/2011
Analyst: LAL

Client PO#: 1108-200
Detection Limit, (µg/L): 0.1
Method 10061

Sample ID	Cr+6, µg/L	Dilution	Final Vol, ml	Cr+6, Total ug	Spike, µg/L	% Recovery/ RPD	Data Filename
LR5	0.000	1	10	< 0.001			080511-116.dat
LR5 spk	5.560	1	10	0.1	5	111%	080511-117.dat
17096-11	0.150	2	1040	0.312			080511-114.dat
17096-11 dup	0.160	2	1040	0.333		6.5%	080511-115.dat
17096-12	0.000	2	890	< 0.178			080511-116.dat
17096-12 dup	0.000	2	890	< 0.178			080511-117.dat
17096-12 D	0.000	2	890	< 0.178			080511-118.dat
17096-12 D dup	0.000	2	890	< 0.178			080511-119.dat
17096-13	0.000	2	810	< 0.162			080511-110.dat
17096-13 dup	0.000	2	810	< 0.162			080511-111.dat
17096-13 spk	5.530	2	810	9.0	5	111%	080511-112.dat
17096-13 spk dup	5.460	2	810	8.8	5	109%	080511-113.dat
17096-14	0.000	2	460	< 0.092			080511-118.dat
17096-14 dup	0.000	2	460	< 0.092			080511-119.dat
17096-15	0.000	2	400	< 0.08			080511-120.dat
17096-15 dup	0.000	2	400	< 0.08			080511-121.dat

Correlation: 0.999462

Standards (ppb)

0.0 ppb	0.00	1	10	0.00			Cal_080511-11.dat
0.1 ppb	0.10	1	10	0.10		100%	Cal_080511-12.dat
1.0 ppb	1.00	1	10	1.00		100%	Cal_080511-13.dat
5.0 ppb	5.00	1	10	5.00		100%	Cal_080511-14.dat
10.0 ppb	10.0	1	10	10.00		100%	Cal_080511-15.dat

Second Source Check Standards

QC	5.09	1	10	0.05	5.00	102%	080511-11.dat
QC	5.52	1	10	0.06	5.00	110%	080511-114.dat
QC	4.83	1	10	0.05	5.00	97%	080511-124.dat
DL	0.11	1	10	0.00	0.10	110%	080511-13.dat
0.1	0.11				0.1	110%	080511-126.dat
1	1.00				1.00	100%	080511-127.dat
5	4.83				5.00	97%	080511-128.dat
10	10.78				10.00	108%	080511-129.dat

Analyst: LAL 17096 Cr 6+

HPLC-Run Sheet

 $R^2 = .999745$ Analyst: LAL

Std. Lot #: _____

Lab ID: 17096 rechecksBatch ID: 8-5-2017

QC Lot#: _____

Date: _____

iAREA CONC pkb

Vial #	Sample ID	Client	Dilutions	Spk Conc.	Final Vol.	Weight	Comments
1	Blank					—	0.00
2	Blank					—	0.00
3	0.0					7853	0.000
4	0.1					8349	0.100
5	1.0					16159	1.000
6	5.0					51891	5.000
7	10.0					93498	10.000
8	QC					51674	5.091
9	Blank					—	0.00
10	DL					8722	0.167
11	17096-11		2x			8183	0.158
12	-11					9213	0.164
13	-12					3386	0.00
14	-12 dup					5225	0.00
15	-12D					6003	0.00
16	-12D dup					5884	0.00
17	-13					4478	0.00
18	-13 dup					4319	0.00
19	-13 spk					55451	5.529
20	-13 spk dup					54840	5.458
21	QC					55346	5.517
22	Blank					—	0.00
23	LRB					7520	0.00
24	LRB +					55745	5.563
25	-14		2x			1981	0.00
26	-14 dup					2539	0.00
27	-15					7724	0.00
28	-15 dup					6000	0.00
29	QC RB					11366	0.460

F164 Cr+6 Run Sheet

V. Linda Faus 2017

HPLC-Run Sheet

Analyst: LAL Std. Lot #: _____ Lab ID: _____
Batch ID: 8-S-2011 QC Lot#: _____ Date: _____
ALFA CONC ppb

[illegible]

F164 Cr+6 Run Sheet

1 of 1

Sequence Summary Report

Sequence name: 080511-1.seq
Analyst: System

UV Detector Ch1-540nm		Chromium ppb
Data Filename	Sample ID	ESTD
080511-600.dat	blank	0.00
080511-601.dat	blank	0.00
Cal_080511-11.dat	0.0 ppb	0.00
Cal_080511-12.dat	0.1 ppb	0.10
Cal_080511-13.dat	1.0 ppb	1.00
Cal_080511-14.dat	5.0 ppb	5.00
Cal_080511-15.dat	10.0 ppb	10.00
080511-11.dat	QC	5.09
080511-12.dat	blank	0.00
080511-13.dat	DL	0.11
080511-14.dat	17096-11	0.15
080511-15.dat	17096-11 dup	0.16
080511-16.dat	17096-12	0.00
080511-17.dat	17096-12 dup	0.00
080511-18.dat	17096-12 D	0.00
080511-19.dat	17096-12 D dup	0.00
080511-110.dat	17096-13	0.00
080511-111.dat	17096-13 dup	0.00
080511-112.dat	17096-13 spk	5.53
080511-113.dat	17096-13 spk dup	5.46
080511-114.dat	QC	5.52
080511-115.dat	blank	0.00
080511-116.dat	LRB	0.00
080511-117.dat	LRB spk	5.56
080511-118.dat	17096-14	0.00
080511-119.dat	17096-14 dup	0.00
080511-120.dat	17096-15	0.00
080511-121.dat	17096-15 dup	0.00
080511-122.dat	RB KOH	0.46
080511-123.dat	RB KOH dup	0.49
080511-124.dat	QC	4.83
080511-125.dat	blank	0.00
080511-126.dat	0.1	0.11
080511-127.dat	1.0	1.00
080511-128.dat	5.0	4.83

8/5/2011 4:09:04 PM

Donck Lamm
1/2 - 1

Sequence Summary Report

080511-129.dat

8/5/2011 4:09:04 PM

2/2 - 2

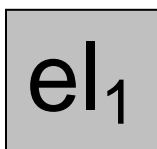
Pace Analytical
1700 Elm St. #200
Minneapolis, MN 55414

Project Number: 1108-200

Particulate Matter, Arsenic, Beryllium,
Cadmium, Chromium, Cobalt, Lead,
Manganese, Nickel, Selenium and Antimony

EPA Methods 5 & 29 Analyses

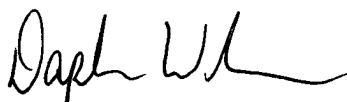
Analytical Report
17096



Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX: 910-792-6853 e1lab@e1lab.com


The following data for Analytical Report 17096
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:

A handwritten signature in black ink, appearing to read 'Daphne Woodman'.

Daphne Woodman, Chemist
August 8, 2011

Report Reviewed and Finalized By:

A handwritten signature in black ink, appearing to read 'Ken Smith'.

Ken Smith, Laboratory Director
August 8, 2011

SUMMARY OF RESULTS

Summary of Analysis

Summary of Method 5 Particulate Analysis

Fraction	T1-R1 e17096-1 Catch, mg	T1-R2 e17096-2 Catch, mg	T1-R3 e17096-3 Catch, mg	Field Blank e17096-4 Catch, mg
Filter	10.8	9.9	9.4	0.3
Rinse	9.1	14.3	10.9	2.3
Total PM	19.9	24.2	20.3	2.6

Summary of Analysis

Front Half - Summary of Method 29 Metals Analysis

Element	T1-R1 e17096-1FH Total µg	T1-R2 e17096-2FH Total µg	T1-R2 e17096-2FH dup Total µg	T1-R3 e17096-3FH Total µg	T1-R0 e17096-4FH Total µg
Antimony	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	0.148	0.161	0.158	< 0.1	0.238
Chromium	0.395	1.09	1.08	0.861	2.80
Cobalt	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Lead	0.137	0.149	0.141	0.210	0.345
Manganese	1.33	2.59	2.63	3.11	3.08
Nickel	0.263	0.520	0.506	0.704	0.912
Selenium	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Back Half - Summary of Method 29 Metals Analysis

Element	T1-R1 e17096-1BH Total µg	T1-R2 e17096-2BH Total µg	T1-R2 e17096-2BH dup Total µg	T1-R3 e17096-3BH Total µg	T1-R0 e17096-4BH Total µg
Antimony	0.429	0.391	0.405	0.248	0.223
Arsenic	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	3.68	4.89	4.83	0.152	0.219
Chromium	10.7	3.86	3.82	4.85	2.79
Cobalt	0.241	0.238	0.236	0.190	< 0.1
Lead	2.94	1.41	1.38	1.83	0.371
Manganese	10.9	6.91	6.75	7.66	3.43
Nickel	5.75	2.59	2.56	4.25	1.05
Selenium	< 0.1	0.143	0.141	< 0.1	< 0.1

ANALYTICAL NARRATIVE

Element One Analytical Narrative

Client:	Pace Analytical	Element One #:	17096
Client ID:	1108-200/FHR ICR	Analyst:	KMS & KLS
Method:	Methods 5 & 29	Dates Received:	07/29-30/11
Analytes:	PM, Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni & Se	Dates Analyzed:	08/02-08/11

Summary of Analysis

The Method 5 particulate samples were analyzed in accordance with EPA Method 5 guidelines. The Method 29 samples were digested, prepared, and analyzed according to Method 29 protocol. Samples were analyzed for metals using a PerkinElmer ELAN 6100 ICP-MS.

Detection Limits

The ICP-MS instrument reporting limits were 0.25µg/L for beryllium, and 1.0µg/L for the other metals.

Analysis QA/QC

Duplicate analyses relative percent difference (RPD), spike sample recovery, and second source calibration verification data are summarized in the Quality Control Section.

*Ref page 9: The beryllium and selenium spike recoveries for the Back Half fraction of T1-R3 were outside of the laboratory guidelines of $\pm 25\%$, with 73% for beryllium and 64% for selenium. The sample was analyzed at a two-fold and five-fold dilution resulting in adequate spike recoveries, indicating matrix interference. The samples were non-detect therefore this should have no significant impact on the results.

All other QA/QC data was within the criteria of the method.

Additional Comments

The reported results have not been corrected for any blank values or spike recovery values. The ICP analysis of the Field Blank samples revealed detectable concentrations of metals, subsequent analysis produced equivalent results.

QUALITY CONTROL SUMMARY

Summary of Quality Control Data

Metals Duplicate Analysis RPD

(Method 29 QC limits: < 20% for RPD)

Element	T1-R2	T1-R2
	Front Half RPD	Back Half RPD
Antimony	NA	3.5%
Arsenic	NA	NA
Beryllium	NA	NA
Cadmium	2.2%	1.1%
Chromium	1.0%	1.0%
Cobalt	NA	0.9%
Lead	5.7%	2.0%
Manganese	1.4%	2.4%
Nickel	2.7%	0.8%
Selenium	NA	1.5%

Metals Analysis Spike Recoveries

(Method 29 QC limits: $\pm 25\%$ for Spike Recoveries)

Element	T1-R3	T1-R3
	Front Half Recovery	Back Half Recovery
Antimony	92%	87%
Arsenic	84%	76%
Beryllium	89%	*73%
Cadmium	87%	81%
Chromium	105%	110%
Cobalt	104%	104%
Lead	98%	106%
Manganese	108%	125%
Nickel	109%	109%
Selenium	78%	*64%

*See Analytical Narrative, page 7.

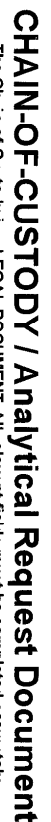
Summary of Quality Control Data

Second Source Calibration Check Recoveries

(Method 29 QC limits: $\pm 10\%$ for Second Source Continuing Check Standard*)

Element	0.25 ppb	1 ppb	50 ppb	100 ppb*	250 ppb
Antimony		105%	97%	99%	100%
Arsenic		93%	97%	102%	99%
Beryllium	102%	104%	101%	105%	102%
Cadmium		107%	99%	104%	100%
Chromium		116%	93%	98%	101%
Cobalt		104%	93%	98%	100%
Lead		125%	98%	104%	101%
Manganese		120%	93%	97%	100%
Nickel		107%	99%	104%	100%
Selenium		99%	94%	101%	97%

SAMPLE CUSTODY



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

e17096

Page: 01

926315

Pace Analytical
FSD 1108-200

ANALYTICAL DATA

Analytical Calculations

Metals-

$$\text{Element Results } (\mu\text{g}) = \text{ICP Results } (\mu\text{g/L}) * \text{Dilution} * \text{Final Volume (L)}$$

Where-

ICP Results= Raw sample concentration (ppb)--*ICP-Data Sheet*

Dilution= $\frac{\text{Diluted Volume}}{\text{Aliquot}}$ --*ICP-MS Run Sheet*

Final Volume= FH= Final Volume (FV)--*Sample Submission*

BH= $\frac{\text{Received Volume (BV)}}{\text{Aliquot (Used)}} * \text{Final Volume (FV)}$ --*Sample Submission*

Combined Results= FH+BH

Analytical Calculations

Spike Recovery-

$$\text{Spike (\%)} = \frac{(\text{Spiked Result } (\mu\text{g/L}) - \text{Sample Result } (\mu\text{g/L}))}{\text{Spike Amount } (\mu\text{g/L})} \times 100$$

Where-

Spike Result = Raw sample concentration (ppb)--*ICP-Data Sheet*

Sample Result = Raw sample concentration (ppb)--*ICP-Data Sheet*

Spike Amount--*ICP-MS Spike Table*

Duplicate Analysis RPD-

$$\text{RPD (\%)} = \frac{(\text{Duplicate Result } (\mu\text{g/L}) - \text{Sample Result } (\mu\text{g/L}))}{\text{Average } (\mu\text{g/L})} \times 100$$

Where-

Sample Result and Duplicate Results=Raw sample concentration (ppb)--*ICP-Data Sheet*

$$\text{Average} = \frac{(\text{Duplicate} + \text{Sample Results})}{2}$$

elementOne AIR TESTING SAMPLE SUBMISSION FORM Lab ID 17096

FH / BH Separate
RUSH---5 DAY TAT

Analysis Due Date 08.04.11
QA/QC/Report Due Date 08.04.11

Client	Pace Analytical	Date Rec	07.30.11
Project No	1106-200	Time Rec	1126
Project ID	FHR ICR	Rec by	PDS

HNO ₃ Lot: 50322	HF Lot: 5110090	HCl Lot: 51035	Ref. Method: 29 / 5
Volume Marked (Y) / N	Volume Loss Y / (N) ?	Acetone Lot: 50147	

Sample Identification

1	T1-FCC-SV0019-M29/5-R1	4	T1-M-29-R0--Field Blank
2	T1-FCC-SV0019-M29/5-R2 T1-FCC-SV0019-M29/5-R2 Duplicate		No RB Received
3	T1-FCC-SV0019-M29/5-R3 T1-FCC-SV0019-M29/5-R3 Spike		

Analyses Requested Samples 1-4 Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni, Se —FH/BH Separate
Samples 1-4 PM

Runs / FB	Fil / Ace (FH)		HNO ₃ (FH)		5% HNO ₃ /10% H ₂ O ₂ (BH)			HNO ₃ (A)		KMnO ₄ (B)		HCl (C)	
	pH <2.0	Y / N	pH <2.0	Y / N	pH <2.0	Y / N		pH <2.0	Y / N	pH <2.0	Y / N	pH <2.0	Y / N
Lab ID	Fil ID	BV ml	BV ml	FV ml	BV ml	Used	FV ml	BV ml	FV ml	BV ml	FV ml	BV ml	FV ml
1		100	110	100	740	370	50						
2.D		150	150	150	730	365							
3.S		175	175	175	770	385							
4		85	85	85	290	145							

M-29 Reagent Blank

Lab ID	Fraction	BV, ml	FV, ml	Comments
	C 7 FH Acetone Blank			No RB Received
	C 8A FH 0.1N HNO ₃			
	C 8A A 0.1N HNO ₃			
	C 8B B DI H ₂ O			
	C 9 BH 5% HNO ₃ /10% H ₂ O ₂			
	C 10 B 4% KMnO ₄ /10% H ₂ SO ₄			
	C 11 C 8N HCl DI H ₂ O			
	C 12 FH Filter			

Lab Communications

LFRT: spiked FH w/ 200 mL 25 ppm standard A, B (lot # 02111-A, B); BH 100 mL

M-29 Rec C1, C2, C3, C4—07.30.11 PDS

SS Page 1 of 2
7/30/2011 6:43:17 PM
SS by PDS
Labeled By KLS 8.1.11

FH Prep By/Date gmn 8/3/11 A Prep By/Date _____
BH Prep By/Date gmn 8/3/11 B Prep By/Date _____
BH/FH Prep By/Date gmn 8/3/11 C Prep By/Date _____
PM Prep By/Date KLS 8.1.11 ID Verification By / Date gmn 8/11/11

elementOne

Method 5 Particulate

Lab # 17096

Client Pace

Page 1 of 1

Balance checks

Date: 8.2.11

2 g = 2.0001

Acetone Concentration

Date: 8.3.11

2 g = 2.0001

0.00E+00

mg/mg

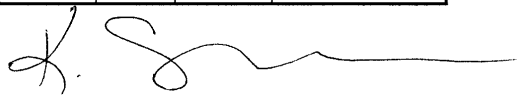
Date:

Filters										
Sample ID #	Filter ID	Tin ID	A	B		B		B		Catch Description and Loading
			Filter Tare, g	Date - 8.2.11 Initials - KLS		Date - 8.2.11 Initials - KLS		Date - 8.3.11 Initials PMH		
				Time	Filter Weight, g	Time	Filter Weight, g	Time	Filter Weight, g	
17096-1	P3697	096-1	0.6237	940	0.6345	1640	0.6349	900	0.6347	
17096-2	P3698	096-2	0.6229	940	0.6328	1640	0.6333	900	0.6330	
17096-3	P3699	096-3	0.6297	940	0.6391	1640	0.6394	900	0.6394	
17096-4	P3680	096-4	0.6312	940	0.6325	1640	0.6320	900	0.6315	
Client Blk										
E1 Blank										

Acetone Rinses										
Sample ID #	Sample Volume, ml	Bag ID	C	D		D		D		Catch Description and Loading
			Bag Tare, g	Date - 8.2.11 Initials - KLS		Date - 8.2.11 Initials - KLS		Date - 8.3.11 Initials PMH		
				Time	Bag & Sample Weight, g	Time	Bag & Sample Weight, g	Time	Bag & Sample Weight, g	
17096-1	90	501	10.4752	940	10.4835	1640	10.4843	900	10.4845	
17096-2	171	X20	10.0636	940	10.0783	1640	10.0779			
17096-3	135	673	10.3993	940	10.4089	1640	10.4102	900	10.4105	
17096-4	120	646	10.0014	940	10.0037	1640	10.0053	900	10.0042	
Client Ace Blk										
E1 Acetone Blank	100	658	10.5612	940	10.5625	1640	10.5624			

Total Catches										
Sample ID #	Filter ID	Filter Tare, g	Final Filter + Catch, g	Filter Catch, mg	Acetone Bag ID	Bag Tare, g	Final Bag + Acetone Weight, g	Acetone blank, mg	Acetone Catch, mg	Total Catch, mg
17096-1	P3697	0.6237	0.6345	10.8	501	10.475	10.4843	0.0	9.1	19.9
17096-2	P3698	0.6229	0.6328	9.9	X20	10.064	10.0779	0.0	14.3	24.2
17096-3	P3699	0.6297	0.6391	9.4	673	10.399	10.4102	0.0	10.9	20.3
17096-4	P3680	0.6312	0.6315	0.3	646	10.001	10.0037	0.0	2.3	2.6
Client Blk										
E1 Blank					658	10.561	10.5624	0.0	1.2	1.2

Element One, Inc. Form 123 - Revision 1.10.23.07



Sample/Batch Report

User Name: icp

Computer Name: D8D4DWD1

Sample File: C:\elandata_icp\Sample\11.sam

Report Date/Time: Friday, August 05, 2011 13:11:50

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
5		QC Std 2		Sample					
203		17095-1		Sample					
204		17095-2		Sample					
205	d	17095-2		Spike - 1 of 3					
206		17095-3		Sample					
207	s	17095-3		Duplicate of 5					
208		17095-4		Sample					
209	x50	17095-1		Sample					
210	x50	17095-2		Sample					
211	x50d	17095-2		Duplicate of 9					
212	x50	17095-3		Sample					
213	x50s	17095-3		Spike - 1 of 11					
1		QC Std 1		Sample					
3		QC Std 4		Sample					
5		QC Std 2	PACE	Sample					
216		17096-1fh	PACE	Sample					
217		17096-2fh	PACE	Sample					
218	d	17096-2fh	PACE	Duplicate of 17					
219		17096-3fh	PACE	Sample					
220	s	17096-3fh	PACE	Spike - 1 of 19					
221		17096-4fh	PACE	Sample					
222		LRB	PACE	Sample					
223	s	LRB	PACE	Spike - 1 of 22					
224		17096-1bh	PACE	Sample					
225		17096-2bh	PACE	Sample					
226	d	17096-2bh	PACE	Duplicate of 25					
227		17096-3bh	PACE	Sample					
228	s	17096-3bh	PACE	Spike - 1 of 27					
229		17096-4bh	PACE	Sample					
1		QC Std 1	PACE	Sample					
3		QC Std 4	PACE	Sample					
5		QC Std 2		Sample					
232		17064-1BH		Sample					
233		17064-2BH		Sample					
234		17064-3BH		Sample					
235	s	17064-3BH		Spike - 3 of 35					
236		17064-4BH		Sample					
237		17064-5BH		Sample					
238		17064-6BH		Sample					
239	s	17064-6BH		Spike - 3 of 39					
240		17064-7BH		Sample					
241		17064-8BH		Sample					
242		17064-9BH		Sample					
243	s	17064-9BH		Spike - 3 of 43					
244		17064-10BH		Sample					
245		17064-11BH		Sample					
246		17064-12BH		Sample					
247	s	17064-12BH		Spike - 3 of 47					
248		17064-1FH		Sample					

249	17064-2FH	Sample
250	17064-3FH	Sample
251 S	17064-3FH	Spike - 3 of 51
252	17064-4FH	Sample
253	17064-5FH	Sample
254	17064-6FH	Sample
255 S	17064-6FH	Spike - 3 of 55
256	17064-7FH	Sample
257	17064-8FH	Sample
258	17064-9FH	Sample
259 S	17064-9FH	Spike - 3 of 59
260	17064-10FH	Sample
301	17064-11FH	Sample
302	17064-12FH	Sample
303 S	17064-12FH	Spike - 3 of 63
304	17064-13	Sample
305	17064-14	Sample
1	QC Std 1	Sample
3	QC Std 4	Sample
5	QC Std 2	ng Sample
308	17072-1FH	ng Sample
309	17072-2FH	ng Sample
310	17072-3FH	ng Sample
311 S	17072-3FH	ng Spike - 3 of 72
312	17072-1BH	ng Sample
313	17072-2BH	ng Sample
314	17072-3BH	ng Sample
315 S	17072-3BH	ng Spike - 3 of 76
316	17072-1FIL	ng Sample
317	17072-2FIL	ng Sample
318	17072-3FIL	ng Sample
319 S	17072-3FIL	ng Spike - 3 of 80
320	17072-4	ng Sample
321	17072-5	ng Sample
322	17072-6	ng Sample
323	17072-7	ng Sample
324 E1	17072-BLK	ng Sample
325 E1	17072-DI	ng Sample
326 E1	17072-ACE	ng Sample
327	17072-DI	ng Sample
1	QC Std 1	ng Sample
3	QC Std 4	ng Sample
5	QC Std 2	Sample
330	17090-1	Sample
331	17090-2	Sample
332	17090-3	Sample
333 s	17090-3	Spike - 3 of 95
334	17090-4	Sample
335	17090-5	Sample
336	17090-6	Sample
337 s	17090-6	Spike - 3 of 99
338	17090-7	Sample
339	17090-8	Sample
340	17090-9	Sample
341 s	17090-9	Spike - 3 of 103
342	17090-10	Sample
343	17090-11	Sample
344	17090-12	Sample
345 s	17090-12	Spike - 3 of 107
346	17090-13	Sample

347	17090-14		Sample
348	17090-15		Sample
349	s	17090-15	Spike - 3 of 111
350		17090-16	Sample
351		17090-17	Sample
352	x2	17095-3	Sample
353	x2s	17095-3	Spike - 1 of 115
354	x5	17095-3	Sample
355	x5s	17095-3	Spike - 1 of 117
356	x10	17095-3	Sample
357	x10s	17095-3	Spike - 1 of 119
358	x2	17096-3bh	PACE Sample
359	x2s	17096-3bh	PACE Spike - 1 of 121
402	x5	17096-3bh	PACE Sample
403	x5s	17096-3bh	PACE Spike - 1 of 123
404	x10	17090-6	Sample
405	x10s	17090-6	Spike - 3 of 125
406	x10	17090-9	Sample
407	x10s	17090-9	Spike - 3 of 127

Dataset Report

User Name: icp
Computer Name: D8D4DWD1
Dataset File Path: C:\elandata_icp\DataSet\080411-2\
Report Date/Time: Friday, August 05, 2011 13:11:03

Autosampler Position: 4

The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Init. Quant	Prep. Vol.	Aliquot. Vol.	Diluted V
19:36:51 Thu 04-Aug-11	Blank		Blank					
19:39:34 Thu 04-Aug-11	Standard 1		Standard #1					
19:42:17 Thu 04-Aug-11	Standard 2		Standard #2					
19:45:01 Thu 04-Aug-11	Standard 3		Standard #3					
19:47:44 Thu 04-Aug-11	QC Std 1		QC Std #1					
19:50:28 Thu 04-Aug-11	QC Std 2		QC Std #2					
19:53:11 Thu 04-Aug-11	QC Std 3		QC Std #3					
19:55:56 Thu 04-Aug-11	QC Std 4		QC Std #4					
19:58:40 Thu 04-Aug-11	QC Std 5		QC Std #5					
20:01:23 Thu 04-Aug-11	QC Std 6		QC Std #6					
20:04:07 Thu 04-Aug-11	QC Std 7		QC Std #7					
20:06:50 Thu 04-Aug-11	QC Std 8		QC Std #8					
20:09:35 Thu 04-Aug-11	QC Std 9		QC Std #9					
20:12:18 Thu 04-Aug-11	QC Std 10		QC Std #10					
20:15:04 Thu 04-Aug-11	QC Std 2		Sample					
20:17:49 Thu 04-Aug-11	17095-1		Sample					
20:20:32 Thu 04-Aug-11	17095-2		Sample					
20:23:16 Thu 04-Aug-11	17095-2	d	Spike - 1 of 17					
20:25:59 Thu 04-Aug-11	17095-3		Sample					
20:28:43 Thu 04-Aug-11	17095-3	s	Duplicate of 19					
20:31:26 Thu 04-Aug-11	17095-4		Sample					
20:34:09 Thu 04-Aug-11	17095-1	x50	Sample					
20:36:53 Thu 04-Aug-11	17095-2	x50	Sample					
20:39:36 Thu 04-Aug-11	17095-2	x50d	Duplicate of 23					
20:42:23 Thu 04-Aug-11	QC Std 1		QC Std #1					
20:45:06 Thu 04-Aug-11	QC Std 4		QC Std #4					
20:47:53 Thu 04-Aug-11	17095-3	x50	Sample					
20:50:36 Thu 04-Aug-11	17095-3	x50s	Spike - 1 of 27					
20:53:22 Thu 04-Aug-11	QC Std 1		Sample					
20:56:05 Thu 04-Aug-11	QC Std 4		Sample					
20:58:49 Thu 04-Aug-11	Blank		Blank					
21:00:58 Thu 04-Aug-11	Standard 1		Standard #1					
21:03:08 Thu 04-Aug-11	Standard 2		Standard #2					
21:05:17 Thu 04-Aug-11	Standard 3		Standard #3					
21:07:27 Thu 04-Aug-11	QC Std 1		QC Std #1					
21:09:36 Thu 04-Aug-11	QC Std 2		QC Std #2					
21:11:46 Thu 04-Aug-11	QC Std 3		QC Std #3					
21:13:56 Thu 04-Aug-11	QC Std 4		QC Std #4					
21:16:06 Thu 04-Aug-11	QC Std 5		QC Std #5					
21:18:16 Thu 04-Aug-11	QC Std 7		QC Std #7					
21:20:25 Thu 04-Aug-11	QC Std 8		QC Std #8					
21:22:37 Thu 04-Aug-11	QC Std 9		QC Std #9					
21:24:46 Thu 04-Aug-11	QC Std 10		QC Std #10					

21:26:58 Thu 04-Aug-11	QC Std 2		Sample	PACE
21:29:10 Thu 04-Aug-11	17096-1fh		Sample	PACE
21:31:19 Thu 04-Aug-11	17096-2fh		Sample	PACE
21:33:29 Thu 04-Aug-11	17096-2fh	d	Duplicate of 46	PACE
21:35:38 Thu 04-Aug-11	17096-3fh		Sample	PACE
21:37:47 Thu 04-Aug-11	17096-3fh	s	Spike - 1 of 48	PACE
21:39:59 Thu 04-Aug-11	QC Std 1		QC Std #1	
21:42:09 Thu 04-Aug-11	QC Std 4		QC Std #4	
21:44:21 Thu 04-Aug-11	17096-4fh		Sample	PACE
21:46:30 Thu 04-Aug-11	LRB		Sample	PACE
21:48:40 Thu 04-Aug-11	LRB	s	Spike - 1 of 53	PACE
21:50:49 Thu 04-Aug-11	17096-1bh		Sample	PACE
21:52:58 Thu 04-Aug-11	17096-2bh		Sample	PACE
21:55:08 Thu 04-Aug-11	17096-2bh	d	Duplicate of 56	PACE
21:57:17 Thu 04-Aug-11	17096-3bh		Sample	PACE
21:59:27 Thu 04-Aug-11	17096-3bh	s	Spike - 1 of 58	PACE
22:01:38 Thu 04-Aug-11	17096-4bh		Sample	PACE
22:06:00 Thu 04-Aug-11	QC Std 1		QC Std #1	
22:08:10 Thu 04-Aug-11	QC Std 4		QC Std #4	
22:12:27 Thu 04-Aug-11	Blank		Blank	
22:14:03 Thu 04-Aug-11	Standard 1		Standard #1	
22:15:40 Thu 04-Aug-11	Standard 2		Standard #2	
22:17:16 Thu 04-Aug-11	Standard 3		Standard #3	
22:18:54 Thu 04-Aug-11	Standard 4		Standard #4	
22:20:33 Thu 04-Aug-11	QC Std 1		QC Std #1	
22:22:10 Thu 04-Aug-11	QC Std 2		QC Std #2	
22:23:46 Thu 04-Aug-11	QC Std 3		QC Std #3	
22:25:23 Thu 04-Aug-11	QC Std 4		QC Std #4	
22:27:01 Thu 04-Aug-11	QC Std 5		QC Std #5	
22:28:39 Thu 04-Aug-11	QC Std 9		QC Std #9	
22:30:17 Thu 04-Aug-11	QC Std 10		QC Std #10	
22:31:56 Thu 04-Aug-11	QC Std 2		Sample	
22:33:34 Thu 04-Aug-11	17064-1BH		Sample	
22:35:11 Thu 04-Aug-11	17064-2BH		Sample	
22:36:47 Thu 04-Aug-11	17064-3BH		Sample	
22:38:23 Thu 04-Aug-11	17064-3BH	s	Spike - 3 of 78	
22:40:00 Thu 04-Aug-11	17064-4BH		Sample	
22:41:36 Thu 04-Aug-11	17064-5BH		Sample	
22:43:12 Thu 04-Aug-11	17064-6BH		Sample	
22:44:49 Thu 04-Aug-11	17064-6BH	s	Spike - 3 of 82	
22:46:27 Thu 04-Aug-11	QC Std 1		QC Std #1	
22:48:04 Thu 04-Aug-11	QC Std 4		QC Std #4	
22:49:43 Thu 04-Aug-11	17064-7BH		Sample	
22:51:19 Thu 04-Aug-11	17064-8BH		Sample	
22:52:55 Thu 04-Aug-11	17064-9BH		Sample	
22:54:32 Thu 04-Aug-11	17064-9BH	s	Spike - 3 of 88	
22:56:08 Thu 04-Aug-11	17064-10BH		Sample	
22:57:44 Thu 04-Aug-11	17064-11BH		Sample	
22:59:20 Thu 04-Aug-11	17064-12BH		Sample	
23:00:57 Thu 04-Aug-11	17064-12BH	s	Spike - 3 of 92	
23:02:33 Thu 04-Aug-11	17064-1FH		Sample	
23:04:10 Thu 04-Aug-11	17064-2FH		Sample	
23:05:48 Thu 04-Aug-11	QC Std 1		QC Std #1	
23:07:25 Thu 04-Aug-11	QC Std 4		QC Std #4	
23:09:03 Thu 04-Aug-11	17064-3FH		Sample	
23:10:40 Thu 04-Aug-11	17064-3FH	S	Spike - 3 of 98	

23:12:16 Thu 04-Aug-11	17064-4FH		Sample	
23:13:53 Thu 04-Aug-11	17064-5FH		Sample	
23:15:29 Thu 04-Aug-11	17064-6FH		Sample	
23:17:05 Thu 04-Aug-11	17064-6FH	S	Spike - 3 of 1	
23:18:42 Thu 04-Aug-11	17064-7FH		Sample	
23:20:18 Thu 04-Aug-11	17064-8FH		Sample	
23:21:54 Thu 04-Aug-11	17064-9FH		Sample	
23:23:31 Thu 04-Aug-11	17064-9FH	S	Spike - 3 of 1	
23:25:11 Thu 04-Aug-11	QC Std 1		QC Std #1	
23:26:47 Thu 04-Aug-11	QC Std 4		QC Std #4	
23:28:27 Thu 04-Aug-11	17064-10FH		Sample	
23:30:03 Thu 04-Aug-11	17064-11FH		Sample	
23:31:39 Thu 04-Aug-11	17064-12FH		Sample	
23:33:16 Thu 04-Aug-11	17064-12FH	S	Spike - 3 of 1	
23:34:52 Thu 04-Aug-11	17064-13		Sample	
23:36:28 Thu 04-Aug-11	17064-14		Sample	
23:38:06 Thu 04-Aug-11	QC Std 1		Sample	
23:39:43 Thu 04-Aug-11	QC Std 4		Sample	
23:41:19 Thu 04-Aug-11	Blank		Blank	
23:42:56 Thu 04-Aug-11	Standard 1		Standard #1	
23:44:32 Thu 04-Aug-11	Standard 2		Standard #2	
23:46:08 Thu 04-Aug-11	Standard 3		Standard #3	
23:47:47 Thu 04-Aug-11	Standard 4		Standard #4	
23:49:25 Thu 04-Aug-11	QC Std 1		QC Std #1	
23:51:02 Thu 04-Aug-11	QC Std 2		QC Std #2	
23:52:38 Thu 04-Aug-11	QC Std 3		QC Std #3	
23:54:15 Thu 04-Aug-11	QC Std 4		QC Std #4	
23:55:53 Thu 04-Aug-11	QC Std 5		QC Std #5	
23:57:31 Thu 04-Aug-11	QC Std 9		QC Std #9	
23:59:07 Thu 04-Aug-11	QC Std 10		QC Std #10	
00:00:45 Fri 05-Aug-11	QC Std 2		Sample	g
00:02:23 Fri 05-Aug-11	17072-1FH		Sample	g
00:04:01 Fri 05-Aug-11	QC Std 1		QC Std #1	
00:05:38 Fri 05-Aug-11	QC Std 4		QC Std #4	
00:07:16 Fri 05-Aug-11	17072-2FH		Sample	g
00:08:52 Fri 05-Aug-11	17072-3FH		Sample	g
00:10:29 Fri 05-Aug-11	17072-3FH	S	Spike - 3 of 13	g
00:12:05 Fri 05-Aug-11	17072-1BH		Sample	g
00:13:41 Fri 05-Aug-11	17072-2BH		Sample	g
00:15:18 Fri 05-Aug-11	17072-3BH		Sample	g
00:16:54 Fri 05-Aug-11	17072-3BH	S	Spike - 3 of 13	g
00:18:30 Fri 05-Aug-11	17072-1FILTER		Sample	g
00:20:07 Fri 05-Aug-11	17072-2FILTER		Sample	g
00:21:43 Fri 05-Aug-11	17072-3FILTER		Sample	g
00:23:20 Fri 05-Aug-11	17072-3FILTER	S	Spike - 3 of 14	g
00:24:58 Fri 05-Aug-11	QC Std 1		QC Std #1	
00:26:35 Fri 05-Aug-11	QC Std 4		QC Std #4	
00:28:13 Fri 05-Aug-11	17072-4		Sample	g
00:29:49 Fri 05-Aug-11	17072-5		Sample	g
00:31:25 Fri 05-Aug-11	17072-6		Sample	g
00:33:02 Fri 05-Aug-11	17072-7		Sample	g
00:34:38 Fri 05-Aug-11	17072-BLK	E1	Sample	g
00:36:14 Fri 05-Aug-11	17072-DI	E1	Sample	g
00:37:50 Fri 05-Aug-11	17072-ACE	E1	Sample	g
00:39:27 Fri 05-Aug-11	17072-DI		Sample	g
00:41:05 Fri 05-Aug-11	QC Std 1		Sample	g

00:42:41 Fri 05-Aug-11	QC Std 4		Sample	,	}
00:44:18 Fri 05-Aug-11	QC Std 1		QC Std #1		
00:45:54 Fri 05-Aug-11	QC Std 4		QC Std #4		
00:47:31 Fri 05-Aug-11	Blank		Blank		
00:49:07 Fri 05-Aug-11	Standard 1		Standard #1		
00:50:43 Fri 05-Aug-11	Standard 2		Standard #2		
00:52:20 Fri 05-Aug-11	Standard 3		Standard #3		
00:53:58 Fri 05-Aug-11	Standard 4		Standard #4		
00:55:37 Fri 05-Aug-11	QC Std 1		QC Std #1		
00:57:14 Fri 05-Aug-11	QC Std 2		QC Std #2		
00:58:50 Fri 05-Aug-11	QC Std 3		QC Std #3		
01:00:27 Fri 05-Aug-11	QC Std 4		QC Std #4		
01:02:05 Fri 05-Aug-11	QC Std 5		QC Std #5		
01:03:43 Fri 05-Aug-11	QC Std 9		QC Std #9		
01:05:19 Fri 05-Aug-11	QC Std 10		QC Std #10		
01:06:57 Fri 05-Aug-11	QC Std 2		Sample		
01:08:35 Fri 05-Aug-11	17090-1		Sample		
01:10:11 Fri 05-Aug-11	17090-2		Sample		
01:11:48 Fri 05-Aug-11	17090-3		Sample		
01:13:25 Fri 05-Aug-11	17090-3	s	Spike - 3 of 17		
01:15:01 Fri 05-Aug-11	17090-4		Sample		
01:16:37 Fri 05-Aug-11	17090-5		Sample		
01:18:13 Fri 05-Aug-11	17090-6		Sample		
01:19:50 Fri 05-Aug-11	17090-6	s	Spike - 3 of 17		
01:21:26 Fri 05-Aug-11	17090-7		Sample		
01:23:04 Fri 05-Aug-11	QC Std 1		QC Std #1		
01:24:41 Fri 05-Aug-11	QC Std 4		QC Std #4		
01:26:19 Fri 05-Aug-11	17090-8		Sample		
01:27:55 Fri 05-Aug-11	17090-9		Sample		
01:29:32 Fri 05-Aug-11	17090-9	s	Spike - 3 of 18		
01:31:08 Fri 05-Aug-11	17090-10		Sample		
01:32:44 Fri 05-Aug-11	17090-11		Sample		
01:34:21 Fri 05-Aug-11	17090-12		Sample		
01:35:57 Fri 05-Aug-11	17090-12	s	Spike - 3 of 18		
01:37:34 Fri 05-Aug-11	17090-13		Sample		
01:39:10 Fri 05-Aug-11	17090-14		Sample		
01:40:46 Fri 05-Aug-11	17090-15		Sample		
01:42:23 Fri 05-Aug-11	17090-15	s	Spike - 3 of 19		
01:44:01 Fri 05-Aug-11	QC Std 1		QC Std #1		
01:45:37 Fri 05-Aug-11	QC Std 4		QC Std #4		
01:47:15 Fri 05-Aug-11	17090-16		Sample		
01:48:52 Fri 05-Aug-11	17090-17		Sample		
01:50:30 Fri 05-Aug-11	QC Std 1		QC Std #1		
01:52:06 Fri 05-Aug-11	QC Std 4		QC Std #4		
08:21:51 Fri 05-Aug-11	1ppm Std		Sample		
08:23:30 Fri 05-Aug-11	QC Std 1		QC Std #1		
08:25:06 Fri 05-Aug-11	QC Std 4		QC Std #4		
08:42:03 Fri 05-Aug-11	17072-1FH		Sample	,	}
08:43:39 Fri 05-Aug-11	17072-2FH		Sample	,	}
08:45:15 Fri 05-Aug-11	17072-3FH		Sample	,	}
08:46:52 Fri 05-Aug-11	17072-3FH	S	Spike - 3 of 20	,	}
08:48:28 Fri 05-Aug-11	17072-1BH		Sample	,	}
08:50:04 Fri 05-Aug-11	17072-2BH		Sample	,	}
08:51:40 Fri 05-Aug-11	17072-3BH		Sample	,	}
08:53:17 Fri 05-Aug-11	17072-3BH	S	Spike - 3 of 20	,	}
08:54:53 Fri 05-Aug-11	17072-1FILTER		Sample	,	}

08:56:29 Fri 05-Aug-11	17072-2FILTER		Sample	j
08:58:07 Fri 05-Aug-11	QC Std 1		QC Std #1	
08:59:44 Fri 05-Aug-11	QC Std 4		QC Std #4	
09:01:22 Fri 05-Aug-11	17072-3FILTER		Sample	j
09:02:58 Fri 05-Aug-11	17072-3FILTER S		Spike - 3 of 21	j
09:04:34 Fri 05-Aug-11	17072-4		Sample	j
09:06:10 Fri 05-Aug-11	17072-5		Sample	j
09:07:47 Fri 05-Aug-11	17072-6		Sample	j
09:09:23 Fri 05-Aug-11	17072-7		Sample	j
09:10:59 Fri 05-Aug-11	17072-BLK	E1	Sample	g
09:12:35 Fri 05-Aug-11	17072-DI	E1	Sample	g
09:14:12 Fri 05-Aug-11	17072-ACE	E1	Sample	g
09:15:48 Fri 05-Aug-11	17072-DI		Sample	g
09:17:26 Fri 05-Aug-11	QC Std 1		QC Std #1	
09:19:02 Fri 05-Aug-11	QC Std 4		QC Std #4	
09:41:57 Fri 05-Aug-11	QC Std 2		Sample	
09:43:35 Fri 05-Aug-11	17090-1		Sample	
09:45:11 Fri 05-Aug-11	17090-2		Sample	
09:46:48 Fri 05-Aug-11	17090-3		Sample	
09:48:24 Fri 05-Aug-11	17090-3	s	Spike - 3 of 2	
09:50:00 Fri 05-Aug-11	17090-4		Sample	
09:51:36 Fri 05-Aug-11	17090-5		Sample	
09:53:12 Fri 05-Aug-11	17090-6		Sample	
09:54:49 Fri 05-Aug-11	17090-6	s	Spike - 3 of 2	
09:56:25 Fri 05-Aug-11	17090-7		Sample	
09:58:03 Fri 05-Aug-11	QC Std 1		QC Std #1	
09:59:39 Fri 05-Aug-11	QC Std 4		QC Std #4	
10:01:17 Fri 05-Aug-11	17090-8		Sample	
10:02:54 Fri 05-Aug-11	17090-9		Sample	
10:04:30 Fri 05-Aug-11	17090-9	s	Spike - 3 of 24	
10:06:06 Fri 05-Aug-11	17090-10		Sample	
10:07:42 Fri 05-Aug-11	17090-11		Sample	
10:09:19 Fri 05-Aug-11	17090-12		Sample	
10:10:55 Fri 05-Aug-11	17090-12	s	Spike - 3 of 24	
10:12:31 Fri 05-Aug-11	17090-13		Sample	
10:14:07 Fri 05-Aug-11	17090-14		Sample	
10:15:44 Fri 05-Aug-11	17090-15		Sample	
10:17:20 Fri 05-Aug-11	17090-15	s	Spike - 3 of 24	
10:18:58 Fri 05-Aug-11	QC Std 1		QC Std #1	
10:20:34 Fri 05-Aug-11	QC Std 4		QC Std #4	
10:22:12 Fri 05-Aug-11	17090-16		Sample	
10:23:48 Fri 05-Aug-11	17090-17		Sample	
10:25:27 Fri 05-Aug-11	QC Std 1		QC Std #1	
10:27:03 Fri 05-Aug-11	QC Std 4		QC Std #4	
11:15:26 Fri 05-Aug-11	17095-3	x2	Sample	
11:18:09 Fri 05-Aug-11	17095-3	x2s	Spike - 1 of 2	
11:20:52 Fri 05-Aug-11	17095-3	x5	Sample	
11:23:36 Fri 05-Aug-11	17095-3	x5s	Spike - 1 of 2	
11:26:19 Fri 05-Aug-11	17095-3	x10	Sample	
11:29:03 Fri 05-Aug-11	17095-3	x10s	Spike - 1 of 2	
11:31:48 Fri 05-Aug-11	QC Std 1		QC Std #1	
11:34:32 Fri 05-Aug-11	QC Std 4		QC Std #4	
12:08:42 Fri 05-Aug-11	17096-3bh	x2	Sample	PACE
12:10:52 Fri 05-Aug-11	17096-3bh	x2s	Spike - 1 of 26	PACE
12:13:04 Fri 05-Aug-11	QC Std 1		QC Std #1	
12:15:13 Fri 05-Aug-11	QC Std 4		QC Std #4	

12:36:21 Fri 05-Aug-11	17096-3bh	x5	Sample	PACE
12:38:30 Fri 05-Aug-11	17096-3bh	x5s	Spike - 1 of 26	PACE
12:40:37 Fri 05-Aug-11	17090-6	x10	Sample	..
12:42:13 Fri 05-Aug-11	17090-6	x10s	Spike - 3 of 27	
12:43:50 Fri 05-Aug-11	17090-9	x10	Sample	
12:45:26 Fri 05-Aug-11	17090-9	x10s	Spike - 3 of 27	
12:47:05 Fri 05-Aug-11	QC Std 1		QC Std #1	
12:48:42 Fri 05-Aug-11	QC Std 4		QC Std #4	

elementOne
Analyst:--kms--

ICP-MS RUN SHEET
8/5/2011

Job Number:

A/S Loc.	Dilution	Sample ID	Client	Type	Weight (g)	Prep Vol (ml)
5		QC Std 2	PACE	Sample		
216		17096-1fh	PACE	Sample		100
217		17096-2fh	PACE	Sample		100
218	d	17096-2fh	PACE	Duplicate of 17		100
219		17096-3fh	PACE	Sample		100
220	s	17096-3fh	PACE	Spike - 1 of 19		100
221		17096-4fh	PACE	Sample		100
222		LRB	PACE	Sample		50
223	s	LRB	PACE	Spike - 1 of 22		50
224		17096-1bh	PACE	Sample		50x2
225		17096-2bh	PACE	Sample		50x2
226	d	17096-2bh	PACE	Duplicate of 25		50x2
227		17096-3bh	PACE	Sample		50x2
228	s	17096-3bh	PACE	Spike - 1 of 27		50x2
229		17096-4bh	PACE	Sample		50x2
1		QC Std 1	PACE	Sample		
3		QC Std 4	PACE	Sample		
358	x2	17096-3bh	PACE	Sample		50x2
359	x2s	17096-3bh	PACE	Spike - 1 of 121		50x2
402	x5	17096-3bh	PACE	Sample		50x2
403	x5s	17096-3bh	PACE	Spike - 1 of 123		50x2

Spikes are post at 0.02mL of 25ppm spiking solutions lot 021410-ABCD & F in a final volume of 10mL				
Submitted for QC by:	Date/Time:		QC Review By:	Date/Time:
kms	8/5/11 13:15		DBL	8/8/11 840
Re-Test Required:	No: <input checked="" type="checkbox"/>	Yes: <input type="checkbox"/>	Comments:	
Resubmitted for QC by:	Date/Time:		QC Review:	By: Date/Time:

Sample/Batch Report

User Name: icp
Computer Name: D8D4DWD1
Sample File: C:\elandata_icp\Sample\15.sam
Report Date/Time: Monday, August 08, 2011 09:55:27

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
5		QC Std 2	Pace	Sample					
401		17096-4 FH	Pace	Sample					
402		17096-4 BH	Pace	Sample					

Dataset Report

User Name: icp
Computer Name: D8D4DWD1
Dataset File Path: C:\elandata_icp\DataSet\080811-1\
Report Date/Time: Monday, August 08, 2011 09:55:23

Autosampler Position: 401

The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Init. Quant	Prep. Vol.	Aliquot. Vol.	Diluted V
09:27:08 Mon 08-Aug-11	Blank		Blank					
09:28:53 Mon 08-Aug-11	Standard 1		Standard #1					
09:30:37 Mon 08-Aug-11	Standard 2		Standard #2					
09:32:22 Mon 08-Aug-11	Standard 3		Standard #3					
09:34:07 Mon 08-Aug-11	QC Std 1		QC Std #1					
09:35:52 Mon 08-Aug-11	QC Std 2		QC Std #2					
09:37:36 Mon 08-Aug-11	QC Std 3		QC Std #3					
09:39:22 Mon 08-Aug-11	QC Std 4		QC Std #4					
09:41:07 Mon 08-Aug-11	QC Std 5		QC Std #5					
09:42:53 Mon 08-Aug-11	QC Std 2		Sample	Pace				
09:44:40 Mon 08-Aug-11	17096-4 FH		Sample	Pace				
09:46:24 Mon 08-Aug-11	17096-4 BH		Sample	Pace				
09:48:11 Mon 08-Aug-11	QC Std 1		QC Std #1					
09:49:56 Mon 08-Aug-11	QC Std 4		QC Std #4					

ELAN Instrument Control Session - [Quantitative Analysis Method - C:\elandata_jcpMethod\z1.mh (From Dataset)]											
File Edit Analysis Options Automation Window Help											
Method Sample Dataset Realtime Interactive CalView RptOption RptView SmartTune Optimize Tuning Instrument Devices Scheduler											
Timing Processing Equation Calibration Sampling Devices QC...											
Analyte	Mass (amu)	Spike Table 1 (Conc.)	Spike Table 1 Det. Limit (Conc.)	Spike Table 2 (Conc.)	Spike Table 2 Det. Limit (Conc.)	Spike Table 3 (Conc.)	Spike Table 3 Det. Limit (Conc.)	Spike Table 4 (Conc.)	Spike Table 4 Det. Limit (Conc.)	Spike Table 5 (Conc.)	Spike Table 5 Det. Limit (Conc.)
1 Bi	6.0122	50	1	25	1	100	1				
2 Sc	44.9559	50	1	25	1	100	1				
3 Cr	51.9405	50	1	25	1	100	1				
4 Cl	52.0407	50	1	25	1	100	1				
5 Mn	54.9382	50	1	25	1	100	1				
6 Co	58.9332	50	1	25	1	100	1				
7 Ni	59.9308	50	1	25	1	100	1				
8 As	74.9216	50	1	25	1	100	1				
9 Se	79.9199	50	1	25	1	100	1				
10 Sb	81.9167	50	1	25	1	100	1				
11 Cd	112.9144	50	1	25	1	100	1				
12 Cd	114.9044	50	1	25	1	100	1				
13 Se	120.9044	50	1	25	1	100	1				
14 Se	122.9044	50	1	25	1	100	1				
15 Pb	207.977	50	1	25	1	100	1				
16	82.9141										

Friday, Aug 05, 2011 01:11 PM

ICP Standards and QC Standards Values Table

Element or Test	Mass	Symbol	Std.#1 ppb	Std.#2 ppb	Std.#3 ppb	QC #1	QC #2	QC #3	QC #4	QC #6 A	QC #7 AB	QC #8 .25	QC #9 LRB	QC #10 LRB+	QC #11 LRB+
Lithium	6	<i>Li</i>													
Lithium	7	Li	1	100	500	0	1	250	100				0	50	100
Beryllium	9	Be	1	100	500	0	1	250	100			0.25	0	50	100
Boron	10	B	1	50	100	0	1	250	100				0	50	100
Boron	11	B	1	50	100	0	1	250	100				0	50	100
Sodium	23	Na	20	1100	5500	0	21	2500	1100				0	718	
Magnesium	24	Mg	20	1100	5500	0	21	2500	1100				0	550	
Magnesium	25	Mg	20	1100	5500	0	21	2500	1100				0	550	
Aluminum	27	Al	1	100	500	0	1	250	100				0	50	100
Phosphorus	31	P	20	1000	5000	0	20	2500	1000				0	200	
Potassium	39	K	20	1100	5500	0	21	2500	1100				0	500	
Calcium	44	Ca	50	1100	5500	0	21	2500	1100				0	550	
Scandium	45														
Titanium	47	Ti	1	100	500	0	1	250	100				0	50	100
Titanium	49	Ti	1	100	500	0	1	250	100				0	50	100
Vanadium	51	V	1	100	500	0	1	250	100	0	20		0	50	100
Vanadium	51	V	1	100	500	0	1	250	100	0	20		0	50	100
Chromium	52	Cr	1	100	500	0	1	250	100		10		0	50	100
Chromium	53	Cr	1	100	500	0	1	250	100		10		0	50	100
Iron	54	Fe	20	1100	5500	0	21	2500	1100	0			0		
Manganese	55	Mn	1	100	500	0	1	250	100	0	10		0	50	100
Iron	57	Fe	20	1100	5500	0	21	2500	1100	0			0		
Cobalt	59	Co	1	100	500	0	1	250	100	0	20		0	50	100
Nickel	60	Ni	1	100	500	0	1	250	100	0	20		0	50	100
Copper	63	Cu	1	100	500	0	1	250	100	0	10		0	50	100
Copper	65	Cu	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	66	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	67	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	68	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Germanium	72	Ge	1	100	500	0	1	250	100				0	50	100
Arsenic	75	As	1	100	500	0	1	250	100	0	10		0	50	100
Selenium	77	Se	1	100	500	0	1	250	100	0	10		0	50	100
Selenium	82	Se	1	100	500	0	1	250	100	0	10		0	50	100
Strontium	88	Sr	1	100	500	0	1	250	100	0			0	50	100
Molybdenum	95	Mo	1	100	500	0	1	250	100				0	50	100
Molybdenum	97	Mo	1	100	500	0	1	250	100				0	50	100
Molybdenum	98	Mo	1	100	500	0	1	200	100				0	50	100
Rhodium	103														
Silver	107	Ag	1	100	500	0	1	250	100	0	10		0	50	100
Silver	109	Ag	1	100	500	0	1	250	100	0	10		0	50	100
Cadmium	111	Cd	1	100	500	0	1	250	100	0	5		0	50	100
Cadmium	114	Cd	1	100	500	0	1	250	100	0	5		0	50	100
Tin	118	Sn	1	100	500	0	1	250	100	0			0	50	100
Antimony	121	Sb	1	100	500	0	1	250	100	0			0	50	100
Antimony	123	Sb	1	100	500	0	1	250	100	0			0	50	100
Tellurium	128	Te	1	100	500	0	1	250	100				0	50	100
Cesium	133														
Barium	135	Ba	1	100	500	0	1	250	100	0			0	50	100
Barium	137	Ba	1	100	500	0	1	250	100	0			0	50	100
Lanthanum	139	La	1	100	500	0	1	250	100				0	50	100
Tantalum	159	Ta	1	100	500	0	1	250	100				0	50	100
Platinum	195	Pt	1	100	500	0	1	250	100				0	50	100
Gold	181	Au	1	100	500	0	1	250	100				0	50	100
Thallium	205	Tl	1	100	500	0	1	250	100	0			0	50	100
Lead	208	Pb	1	100	500	0	1	250	100	0			0	50	100
Bismuth	209	Bi	1	100	500	0	1	250	100				0	50	100
Thorium	232	Th	1	100	500	0	1	250	100				0	50	100
Uranium	238	U	1	100	500	0	1	250	100				0	50	100
Krypton	83														

elementOne

elementOne

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Date: Thursday, August 04, 2011 20:58:49

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	46972.5		ppb
-	Be	9	24		ppb
-	Sc	45	266422.3		ppb
	Cr	52	14345.7		ppb
	Cr	53	41442.9		ppb
	Mn	55	6649.5		ppb
	Co	59	888.4		ppb
	Ni	60	628.7		ppb
	As	75	57.4		ppb
	Se	77	4232.7		ppb
	Se	82	24.7		ppb
>	Rh	103	752559.1		ppb
	Cd	111	171.8		ppb
-	Cd	114	403.9		ppb
-	Sb	121	582.7		ppb
	Sb	123	432.7		ppb
>	Ho	165	1402040		ppb
-	Pb	208	11622.5		ppb
	Kr	83	85		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Date: Thursday, August 04, 2011 21:00:58

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	46791.2		ppb
-	Be	9	407.3	1.05037	ppb
-	Sc	45	269682.7		ppb
	Cr	52	27238.8	0.98567	ppb
	Cr	53	43878.6	1.18827	ppb
	Mn	55	26561.1	1.00785	ppb
	Co	59	16957.5	0.99329	ppb
	Ni	60	4134.6	1.07276	ppb
	As	75	2449.5	0.91007	ppb
	Se	77	4431.4	0.65376	ppb
	Se	82	295.8	1.0524	ppb
>	Rh	103	765396.2		ppb
	Cd	111	3840.1	1.0162	ppb
-	Cd	114	9218.4	0.98949	ppb
-	Sb	121	13359.8	1.03135	ppb
	Sb	123	10187.3	1.02765	ppb
>	Ho	165	1434998.4		ppb
-	Pb	208	71727.3	0.94142	ppb
	Kr	83	-150		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date: Thursday, August 04, 2011 21:03:08

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	46069.2		ppb
-	Be	9	38572.7	107.40756	ppb
-	Sc	45	264683.5		ppb
	Cr	52	1231601.4	97.31436	ppb
	Cr	53	185583.5	101.3962	ppb
	Mn	55	1886933	98.19276	ppb
	Co	59	1549880.4	98.31041	ppb
	Ni	60	330051.3	103.67715	ppb
	As	75	261800.4	102.02786	ppb
	Se	77	23937.1	103.43788	ppb
	Se	82	25752.4	102.68116	ppb
>	Rh	103	746041.8		ppb
	Cd	111	361201.8	102.67676	ppb
-	Cd	114	850177.7	97.93252	ppb
-	Sb	121	1235330.9	101.0741	ppb
	Sb	123	945575.2	100.9742	ppb
>	Ho	165	1416534.3		ppb
-	Pb	208	6419345.4	102.13391	ppb
	Kr	83	-23031.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date: Thursday, August 04, 2011 21:05:17

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	44829.7		ppb
-	Be	9	174197.9	498.51839	ppb
-	Sc	45	253132.4		ppb
	Cr	52	5897412.9	500.53716	ppb
	Cr	53	707856.6	499.72038	ppb
	Mn	55	9009463.2	500.36143	ppb
	Co	59	7408075.2	500.33793	ppb
	Ni	60	1491208.6	499.26443	ppb
	As	75	1204421.5	499.59461	ppb
	Se	77	93498.7	499.31312	ppb
	Se	82	117624.2	499.46366	ppb
>	Rh	103	701046.1		ppb
	Cd	111	1650364.5	499.46461	ppb
-	Cd	114	4080280.2	500.41352	ppb
-	Sb	121	6046750.1	499.78512	ppb
	Sb	123	4633197.6	499.8051	ppb
>	Ho	165	1402784.4		ppb
-	Pb	208	31048204	499.57334	ppb
	Kr	83	-106058		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Thursday, August 04, 2011 21:07:27

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	43941		ppb
-	Be	9	114	0.27153	ppb
-	Sc	45	248805.2		ppb
	Cr	52	17221.9	0.30271	ppb
	Cr	53	41048.8	1.26232	ppb
	Mn	55	11359.3	0.27655	ppb
	Co	59	4788.6	0.26262	ppb
	Ni	60	1452.8	0.28278	ppb
	As	75	852.4	0.32649	ppb
	Se	77	4014.9	-0.00814	ppb
	Se	82	99.7	0.31824	ppb
>	Rh	103	714186.3		ppb
	Cd	111	1023.6	0.25663	ppb
-	Cd	114	2303.8	0.2322	ppb
-	Sb	121	3225.4	0.22759	ppb
	Sb	123	2482.6	0.23041	ppb
>	Ho	165	1363408.9		ppb
-	Pb	208	31644.8	0.34001	ppb
	Kr	83	39.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Thursday, August 04, 2011 21:09:36

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	44960.3		ppb
-	Be	9	398.7	1.07322	ppb
-	Sc	45	249750.5		ppb
	Cr	52	27391.2	1.16161	ppb
	Cr	53	42345.4	2.36193	ppb
	Mn	55	28899.2	1.23993	ppb
	Co	59	16751.8	1.06019	ppb
	Ni	60	10216.1	3.17899	ppb
	As	75	2872	1.15283	ppb
	Se	77	4261.3	1.45146	ppb
	Se	82	259.3	0.98867	ppb
>	Rh	103	710714.2		ppb
	Cd	111	3862.7	1.10473	ppb
-	Cd	114	8855.4	1.02511	ppb
-	Sb	121	13174.2	1.06708	ppb
	Sb	123	10227.4	1.08321	ppb
>	Ho	165	1369892.2		ppb
-	Pb	208	87296.4	1.25174	ppb
	Kr	83	-125.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date: Thursday, August 04, 2011 21:11:46

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	41833.5		ppb
-	Be	9	83431.1	255.86991	ppb
-	Sc	45	238609.4		ppb
	Cr	52	2824887.5	251.38382	ppb
	Cr	53	357612.1	251.77624	ppb
	Mn	55	4281331.3	249.69481	ppb
	Co	59	3514656.3	249.40631	ppb
	Ni	60	712013.3	250.42009	ppb
	As	75	569739.6	248.36077	ppb
	Se	77	45361.6	243.81136	ppb
	Se	82	54476.4	243.05762	ppb
>	Rh	103	667085		ppb
	Cd	111	784864.7	249.57762	ppb
-	Cd	114	1824675.2	235.13213	ppb
-	Sb	121	2807153.1	247.84646	ppb
	Sb	123	2158070.7	248.67678	ppb
>	Ho	165	1313061.9		ppb
-	Pb	208	14650461	251.73965	ppb
	Kr	83	-49692.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Thursday, August 04, 2011 21:13:56

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	43821.6		ppb
-	Be	9	35919.5	105.13709	ppb
-	Sc	45	247168.8		ppb
	Cr	52	1164729.3	97.65348	ppb
	Cr	53	177236.8	103.12207	ppb
	Mn	55	1761845.9	97.27917	ppb
	Co	59	1451042	97.66076	ppb
	Ni	60	311993.7	103.99121	ppb
	As	75	247127.7	102.18181	ppb
	Se	77	22403.9	102.55623	ppb
	Se	82	23875.8	101.0039	ppb
>	Rh	103	703130		ppb
	Cd	111	343611.4	103.6393	ppb
-	Cd	114	801469.4	97.95665	ppb
-	Sb	121	1175605.9	99.04317	ppb
	Sb	123	900750.2	99.04377	ppb
>	Ho	165	1375756.7		ppb
-	Pb	208	6334678.3	103.77927	ppb
	Kr	83	-21515.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Date: Thursday, August 04, 2011 21:16:06

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	44419.3		ppb
-	Be	9	17508.5	50.52622	ppb
-	Sc	45	248251.2		ppb
	Cr	52	569421.4	46.33805	ppb
	Cr	53	107465.8	49.82372	ppb
	Mn	55	860552.8	46.53107	ppb
	Co	59	703604.8	46.524	ppb
	Ni	60	151774.7	49.62735	ppb
	As	75	119563	48.58853	ppb
	Se	77	12810.4	48.00847	ppb
	Se	82	11360.8	47.19838	ppb
>	Rh	103	715258.7		ppb
	Cd	111	167844	49.73832	ppb
-	Cd	114	392855.7	47.17749	ppb
-	Sb	121	574950.1	48.06048	ppb
	Sb	123	442543.4	48.28155	ppb
>	Ho	165	1385832.2		ppb
-	Pb	208	3003501.5	48.7522	ppb
	Kr	83	106.3		mg/L

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Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 7

Sample Date: Thursday, August 04, 2011 21:18:16

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	41113.6		ppb
-	Be	9	336.3	0.98429	ppb
-	Sc	45	221801.3		ppb
	Cr	52	122739.6	11.96841	ppb
	Cr	53	55764.6	23.43595	ppb
	Mn	55	178681.6	12.11953	ppb
	Co	59	253325.8	21.42005	ppb
	Ni	60	52989.7	22.08073	ppb
	As	75	20753.1	10.7835	ppb
	Se	77	7968.8	33.78345	ppb
	Se	82	2005.7	10.59345	ppb
>	Rh	103	558535.6		ppb
	Cd	111	15664	5.90186	ppb
-	Cd	114	41356.4	6.32004	ppb
-	Sb	121	11381.1	1.00047	ppb
	Sb	123	8654.5	0.99398	ppb
>	Ho	165	1258496.2		ppb
-	Pb	208	69553.2	1.06066	ppb
	Kr	83	-124.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 8

Sample Date: Thursday, August 04, 2011 21:20:25

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	56115.4		ppb
-	Be	9	140.3	0.25576	ppb
-	Sc	45	314585.6		ppb
	Cr	52	25657.5	0.55195	ppb
	Cr	53	56704.3	3.93409	ppb
	Mn	55	31046.6	0.99088	ppb
	Co	59	5729.8	0.24359	ppb
	Ni	60	9651.8	2.30516	ppb
	As	75	706.7	0.20381	ppb
	Se	77	6570.4	6.3641	ppb
	Se	82	91.8	0.2036	ppb
>	Rh	103	906012		ppb
	Cd	111	1348.6	0.26749	ppb
-	Cd	114	2907.9	0.2298	ppb
-	Sb	121	4828.3	0.26886	ppb
	Sb	123	3711.4	0.27139	ppb
>	Ho	165	1765975.3		ppb
-	Pb	208	51643.1	0.47309	ppb
	Kr	83	-6.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 9

Sample Date: Thursday, August 04, 2011 21:22:37

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	42786.5		ppb
-	Be	9	14	-0.02376	ppb
-	Sc	45	256140.2		ppb
	Cr	52	47868.1	3.05158	ppb
	Cr	53	49841.3	9.46459	ppb
	Mn	55	465842.9	26.28239	ppb
	Co	59	2847.1	0.14171	ppb
	Ni	60	3045.8	0.85297	ppb
	As	75	2107.7	0.87686	ppb
	Se	77	4935.3	6.31952	ppb
	Se	82	20.4	-0.00882	ppb
>	Rh	103	681569.3		ppb
	Cd	111	1574.3	0.4412	ppb
-	Cd	114	1219.3	0.1073	ppb
-	Sb	121	4940	0.37489	ppb
	Sb	123	3804.1	0.3786	ppb
>	Ho	165	1353435.3		ppb
-	Pb	208	64625.8	0.89095	ppb
	Kr	83	-688.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 10

Sample Date: Thursday, August 04, 2011 21:24:46

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	44274.2		ppb
-	Be	9	5.7	-0.04912	ppb
-	Sc	45	252631.1		ppb
	Cr	52	47905.2	2.99764	ppb
	Cr	53	52335.2	10.8239	ppb
	Mn	55	508125.3	28.30419	ppb
	Co	59	1047.7	0.0159	ppb
	Ni	60	3010.5	0.82681	ppb
	As	75	2331.1	0.95869	ppb
	Se	77	5392.3	8.52043	ppb
	Se	82	10.6	-0.05197	ppb
>	Rh	103	691020.4		ppb
	Cd	111	1348.6	0.3654	ppb
-	Cd	114	746.3	0.04671	ppb
-	Sb	121	4977	0.37632	ppb
	Sb	123	3851.7	0.38191	ppb
>	Ho	165	1359735.3		ppb
-	Pb	208	63563.6	0.86833	ppb
	Kr	83	-596.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Thursday, August 04, 2011 21:26:58

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	43257.3		ppb
-	Be	9	373	1.04075	ppb
-	Sc	45	234377.6		ppb
	Cr	52	29277.7	1.42908	ppb
	Cr	53	53892.9	12.63092	ppb
	Mn	55	26935.2	1.19789	ppb
	Co	59	15709.9	1.0371	ppb
	Ni	60	9993.8	3.25204	ppb
	As	75	2221.1	0.92733	ppb
	Se	77	5976	12.3443	ppb
	Se	82	260.1	1.04068	ppb
>	Rh	103	680519.8		ppb
	Cd	111	3581.2	1.06834	ppb
-	Cd	114	8386.5	1.01352	ppb
-	Sb	121	12427.2	1.04305	ppb
	Sb	123	9563.9	1.04934	ppb
>	Ho	165	1320664.3		ppb
-	Pb	208	84333.5	1.25462	ppb
	Kr	83	-127.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-1fh

Sample Date: Thursday, August 04, 2011 21:29:10

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	42993.7		ppb
-	Be	9	3	-0.05662	ppb
-	Sc	45	230203.1		ppb
	Cr	52	57433.5	3.95378	ppb
	Cr	53	22349	-11.39869	ppb
	Mn	55	236346.6	13.33987	ppb
	Co	59	4076.9	0.23099	ppb
	Ni	60	8109.9	2.63405	ppb
	As	75	122.6	0.02988	ppb
	Se	77	680	-18.01746	ppb
	Se	82	-2.6	-0.10962	ppb
>	Rh	103	672862.5		ppb
	Cd	111	4833.4	1.47576	ppb
-	Cd	114	11070.4	1.36826	ppb
-	Sb	121	2827.8	0.19654	ppb
	Sb	123	2156.9	0.1969	ppb
>	Ho	165	1339806.7		ppb
-	Pb	208	92333	1.36888	ppb
	Kr	83	-93.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-2fh

Sample Date: Thursday, August 04, 2011 21:31:19

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	48640.2		ppb
-	Be	9	12	-0.03293	ppb
-	Sc	45	238755.2		ppb
	Cr	52	117072.6	10.92328	ppb
	Cr	53	22845.4	-8.11447	ppb
	Mn	55	390375.4	25.91467	ppb
	Co	59	6229.5	0.45442	ppb
	Ni	60	13292.7	5.19707	ppb
	As	75	313.1	0.13468	ppb
	Se	77	538	-18.32624	ppb
	Se	82	87.5	0.35135	ppb
>	Rh	103	578856.8		ppb
	Cd	111	4531.2	1.61279	ppb
-	Cd	114	10367.9	1.49389	ppb
-	Sb	121	4852.3	0.40846	ppb
	Sb	123	3672.3	0.40418	ppb
>	Ho	165	1234170.9		ppb
-	Pb	208	91638.4	1.4905	ppb
	Kr	83	-97.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-2fh

Sample Date: Thursday, August 04, 2011 21:33:29

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	51549.1		ppb
-	Be	9	4.7	-0.05394	ppb
-	Sc	45	271554.6		ppb
	Cr	52	126320	10.81031	ppb
	Cr	53	23113.8	-9.60794	ppb
	Mn	55	431034.4	26.28525	ppb
	Co	59	6402.6	0.42493	ppb
	Ni	60	14114.6	5.06016	ppb
	As	75	492.6	0.20526	ppb
	Se	77	517.3	-18.76135	ppb
	Se	82	155.5	0.63694	ppb
>	Rh	103	630512.8		ppb
	Cd	111	4834.4	1.5781	ppb
-	Cd	114	10439.6	1.37877	ppb
-	Sb	121	4969	0.39234	ppb
	Sb	123	3773.7	0.38992	ppb
>	Ho	165	1307557.3		ppb
-	Pb	208	92395.5	1.40832	ppb
	Kr	83	-115.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3fh

Sample Date: Thursday, August 04, 2011 21:35:38

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	61451		ppb
-	Be	9	7.7	-0.04949	ppb
-	Sc	45	367563.8		ppb
	Cr	52	137314.1	8.6116	ppb
	Cr	53	25090.3	-13.18087	ppb
	Mn	55	677106.8	31.05946	ppb
	Co	59	13330.1	0.6955	ppb
	Ni	60	25900.9	7.04366	ppb
	As	75	248.7	0.06345	ppb
	Se	77	587	-19.24739	ppb
	Se	82	58.8	0.11028	ppb
>	Rh	103	839962.8		ppb
	Cd	111	1875.9	0.4254	ppb
-	Cd	114	3155.2	0.27676	ppb
-	Sb	121	8384.5	0.58712	ppb
	Sb	123	6450.7	0.59117	ppb
>	Ho	165	1530387.2		ppb
-	Pb	208	154841.6	2.09748	ppb
	Kr	83	-240.7		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3fh

Sample Date: Thursday, August 04, 2011 21:37:47

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	57940.7		ppb
-	Be	9	20098.5	44.45243	ppb
-	Sc	45	339762.7		ppb
	Cr	52	823173.8	61.10544	ppb
	Cr	53	106607.5	41.94292	ppb
	Mn	55	1727129.9	84.97792	ppb
	Co	59	870149.9	52.1873	ppb
	Ni	60	206577.6	61.30951	ppb
	As	75	114193.6	42.08816	ppb
	Se	77	8475.6	20.03289	ppb
	Se	82	10334.4	38.91824	ppb
>	Rh	103	788630.3		ppb
	Cd	111	162595	43.69542	ppb
-	Cd	114	380584.3	41.44753	ppb
-	Sb	121	581003.4	46.08143	ppb
	Sb	123	444602.3	46.02572	ppb
>	Ho	165	1460453.5		ppb
-	Pb	208	3331441.8	51.32031	ppb
	Kr	83	-273.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Thursday, August 04, 2011 21:39:59

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	46599		ppb
-	Be	9	26	0.00556	ppb
-	Sc	45	283999		ppb
	Cr	52	17697.3	0.2553	ppb
	Cr	53	51334.7	6.62884	ppb
	Mn	55	7573.7	0.0449	ppb
	Co	59	984.4	0.00551	ppb
	Ni	60	699.4	0.02037	ppb
	As	75	-393.7	-0.17324	ppb
	Se	77	6481	11.43681	ppb
	Se	82	31.1	0.02448	ppb
>	Rh	103	757997.5		ppb
	Cd	111	203.3	0.00838	ppb
-	Cd	114	425.6	0.00207	ppb
-	Sb	121	658	0.00552	ppb
	Sb	123	508	0.00743	ppb
>	Ho	165	1413984.5		ppb
-	Pb	208	7207.3	-0.07238	ppb
	Kr	83	86.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Thursday, August 04, 2011 21:42:09

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	44066.8		ppb
-	Be	9	36187.2	105.31254	ppb
-	Sc	45	255501.5		ppb
	Cr	52	1185759.9	97.75664	ppb
	Cr	53	186214	107.50642	ppb
	Mn	55	1805309.7	98.02331	ppb
	Co	59	1471145.1	97.36863	ppb
	Ni	60	318557.2	104.41504	ppb
	As	75	249877.4	101.6126	ppb
	Se	77	23626.7	107.17466	ppb
	Se	82	24347.8	101.29441	ppb
>	Rh	103	714991.3		ppb
	Cd	111	345333.9	102.43244	ppb
-	Cd	114	811452.2	97.53438	ppb
-	Sb	121	1179968.4	99.01109	ppb
	Sb	123	908730.4	99.51749	ppb
>	Ho	165	1381314.3		ppb
-	Pb	208	6235583.1	101.74246	ppb
	Kr	83	-21830.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-4fh

Sample Date: Thursday, August 04, 2011 21:44:21

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	56312.6		ppb
-	Be	9	16.7	-0.02695	ppb
-	Sc	45	239144.3		ppb
	Cr	52	631233.3	58.59087	ppb
	Cr	53	81775.3	39.16477	ppb
	Mn	55	2867811.6	176.92952	ppb
	Co	59	24839.9	1.81158	ppb
	Ni	60	60231.5	22.24708	ppb
	As	75	431.6	0.17761	ppb
	Se	77	429.3	-19.28352	ppb
	Se	82	17.6	-0.0144	ppb
>	Rh	103	630373.6		ppb
	Cd	111	7197	2.37553	ppb
-	Cd	114	15561.3	2.0766	ppb
-	Sb	121	7481.4	0.59613	ppb
	Sb	123	5748.5	0.59946	ppb
>	Ho	165	1347581		ppb
-	Pb	208	296023.4	4.77662	ppb
	Kr	83	-202.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB

Sample Date: Thursday, August 04, 2011 21:46:30

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	52564.7		ppb
-	Be	9	11.7	-0.03711	ppb
-	Sc	45	242661.2		ppb
	Cr	52	158046.3	11.99148	ppb
	Cr	53	27075.1	-9.08214	ppb
	Mn	55	883268	47.58876	ppb
	Co	59	2648.1	0.11879	ppb
	Ni	60	21135.5	6.71646	ppb
	As	75	301.6	0.10004	ppb
	Se	77	485.3	-19.33926	ppb
	Se	82	154.6	0.54316	ppb
>	Rh	103	717928.6		ppb
	Cd	111	2417.9	0.66618	ppb
-	Cd	114	5474.6	0.60948	ppb
-	Sb	121	34632.2	2.78876	ppb
	Sb	123	26727.8	2.81085	ppb
>	Ho	165	1415469.9		ppb
-	Pb	208	1057784	16.68675	ppb
	Kr	83	-120.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB

Sample Date: Thursday, August 04, 2011 21:48:40

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	49959.5		ppb
-	Be	9	15884.2	40.73673	ppb
-	Sc	45	235357.7		ppb
	Cr	52	610249.8	52.52919	ppb
	Cr	53	80453.1	33.28895	ppb
	Mn	55	1286316.2	73.56107	ppb
	Co	59	703453.6	49.06685	ppb
	Ni	60	154805.4	53.41007	ppb
	As	75	91633.8	39.2751	ppb
	Se	77	6189.1	13.69114	ppb
	Se	82	7585.4	33.20653	ppb
>	Rh	103	678090.5		ppb
	Cd	111	136876.3	42.78093	ppb
-	Cd	114	323807.8	41.01083	ppb
-	Sb	121	475090.8	40.79773	ppb
	Sb	123	365394.1	40.95342	ppb
>	Ho	165	1348761.3		ppb
-	Pb	208	3129977.3	52.21339	ppb
	Kr	83	65.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-1bh

Sample Date: Thursday, August 04, 2011 21:50:49

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	59471.6		ppb
-	Be	9	104.7	0.16084	ppb
-	Sc	45	581991.5		ppb
	Cr	52	1226307.7	106.94593	ppb
	Cr	53	152458	89.14085	ppb
	Mn	55	1895947.1	108.83105	ppb
	Co	59	35175.6	2.40673	ppb
	Ni	60	166070.8	57.45373	ppb
	As	75	521.2	0.2022	ppb
	Se	77	932.7	-16.58115	ppb
	Se	82	207.7	0.81714	ppb
>	Rh	103	676415.5		ppb
	Cd	111	117461.3	36.80226	ppb
-	Cd	114	269803.9	34.25141	ppb
-	Sb	121	52012.4	4.27927	ppb
	Sb	123	39949.6	4.29148	ppb
>	Ho	165	1393654		ppb
-	Pb	208	1825878	29.39823	ppb
	Kr	83	-4334.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-2bh

Sample Date: Thursday, August 04, 2011 21:52:58

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	57289.3		ppb
-	Be	9	72	0.09583	ppb
-	Sc	45	319257.8		ppb
	Cr	52	447349.7	38.57514	ppb
	Cr	53	58596.2	16.85302	ppb
	Mn	55	1198272.2	69.14806	ppb
	Co	59	34581.7	2.38112	ppb
	Ni	60	74531.3	25.85527	ppb
	As	75	469.5	0.18013	ppb
	Se	77	881.7	-16.84525	ppb
	Se	82	345.2	1.43186	ppb
>	Rh	103	671804.7		ppb
	Cd	111	154849.5	48.86127	ppb
-	Cd	114	360413.5	46.08277	ppb
-	Sb	121	46413.6	3.87439	ppb
	Sb	123	35845.4	3.90715	ppb
>	Ho	165	1371958.2		ppb
-	Pb	208	867804.5	14.09702	ppb
	Kr	83	-3759.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-2bh

Sample Date: Thursday, August 04, 2011 21:55:08

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	58577.3		ppb
-	Be	9	70	0.08807	ppb
-	Sc	45	324306.9		ppb
	Cr	52	444657.4	38.20505	ppb
	Cr	53	58154.8	16.35459	ppb
	Mn	55	1174268.5	67.53114	ppb
	Co	59	34376.6	2.35916	ppb
	Ni	60	74165.4	25.6403	ppb
	As	75	476.4	0.18326	ppb
	Se	77	880.7	-16.86761	ppb
	Se	82	341.6	1.41109	ppb
>	Rh	103	674001.2		ppb
	Cd	111	153637.2	48.31489	ppb
-	Cd	114	357421.7	45.55371	ppb
-	Sb	121	49448.5	4.06385	ppb
	Sb	123	37712.5	4.04615	ppb
>	Ho	165	1394465.9		ppb
-	Pb	208	864954.5	13.82025	ppb
	Kr	83	-3850.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3bh

Sample Date: Thursday, August 04, 2011 21:57:17

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	60697.9		ppb
-	Be	9	80.3	0.10405	ppb
-	Sc	45	641423.7		ppb
	Cr	52	551021.4	48.52092	ppb
	Cr	53	71390.6	27.65781	ppb
	Mn	55	1306859.5	76.60209	ppb
	Co	59	27317.7	1.89889	ppb
	Ni	60	120218	42.46016	ppb
	As	75	386.3	0.14788	ppb
	Se	77	731.7	-17.65598	ppb
	Se	82	143	0.54623	ppb
>	Rh	103	661684.1		ppb
	Cd	111	4887.1	1.51889	ppb
-	Cd	114	6539.6	0.80397	ppb
-	Sb	121	28838.3	2.45145	ppb
	Sb	123	22365.9	2.48375	ppb
>	Ho	165	1337713.9		ppb
-	Pb	208	1093407.9	18.26938	ppb
	Kr	83	-3548.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3bh

Sample Date: Thursday, August 04, 2011 21:59:27

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	57682.2		ppb
-	Be	9	16340.7	36.29439	ppb
-	Sc	45	577279.7		ppb
	Cr	52	1079727.2	103.2674	ppb
	Cr	53	133900	84.83929	ppb
	Mn	55	2205004.9	138.96	ppb
	Co	59	699845.1	53.68205	ppb
	Ni	60	254838.5	96.83378	ppb
	As	75	80634	38.00601	ppb
	Se	77	5796.2	14.76155	ppb
	Se	82	6691.9	32.21943	ppb
>	Rh	103	616668.3		ppb
	Cd	111	122158.7	41.97952	ppb
-	Cd	114	282716.3	39.37016	ppb
-	Sb	121	499006.6	45.75278	ppb
	Sb	123	384289.6	45.98797	ppb
>	Ho	165	1263328.9		ppb
-	Pb	208	3992640.5	71.17376	ppb
	Kr	83	-3387		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-4bh

Sample Date: Thursday, August 04, 2011 22:01:38

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	58834.9		ppb
-	Be	9	37	0.01533	ppb
-	Sc	45	255172		ppb
	Cr	52	330884.8	27.90386	ppb
	Cr	53	43795.9	4.92158	ppb
	Mn	55	603969.8	34.28712	ppb
	Co	59	6652.1	0.40828	ppb
	Ni	60	30868	10.47249	ppb
	As	75	600.9	0.2355	ppb
	Se	77	345.3	-19.99196	ppb
	Se	82	95.2	0.3197	ppb
>	Rh	103	679478.8		ppb
	Cd	111	236994.8	73.95634	ppb
-	Cd	114	549773.2	69.5197	ppb
-	Sb	121	26867	2.23204	ppb
	Sb	123	20597	2.23473	ppb
>	Ho	165	1366573.7		ppb
-	Pb	208	265624	4.20278	ppb
	Kr	83	-1181.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Thursday, August 04, 2011 22:06:00

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
>	Li	6	46311.6		ppb
-	Be	9	8.3	-0.04227	ppb
-	Sc	45	217631.9		ppb
	Cr	52	11187.9	-0.11586	ppb
	Cr	53	32192.2	-3.0497	ppb
	Mn	55	5684.2	-0.00511	ppb
	Co	59	277.7	-0.03571	ppb
	Ni	60	505.3	-0.01438	ppb
	As	75	184.2	0.05989	ppb
	Se	77	3349.6	-1.95637	ppb
	Se	82	16.5	-0.02231	ppb
>	Rh	103	653732.3		ppb
	Cd	111	153.2	0.00155	ppb
-	Cd	114	308.4	-0.00535	ppb
-	Sb	121	241.3	-0.02598	ppb
	Sb	123	185.7	-0.02438	ppb
>	Ho	165	1268312.8		ppb
-	Pb	208	4669.9	-0.1038	ppb
	Kr	83	77.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Thursday, August 04, 2011 22:08:10

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
>	Li	6	45318.7		ppb
-	Be	9	32867.7	93.00361	ppb
-	Sc	45	214247.8		ppb
	Cr	52	1017037.2	93.80636	ppb
	Cr	53	154450.8	97.7414	ppb
	Mn	55	1521842.7	92.47899	ppb
	Co	59	1303736.3	96.59095	ppb
	Ni	60	282573.3	103.66946	ppb
	As	75	219618.5	99.96273	ppb
	Se	77	19317.8	96.21057	ppb
	Se	82	21033.5	97.9384	ppb
>	Rh	103	638833.1		ppb
	Cd	111	304565.2	101.11339	ppb
-	Cd	114	715122.1	96.20719	ppb
-	Sb	121	1050089.2	96.15132	ppb
	Sb	123	806588.1	96.38971	ppb
>	Ho	165	1265800.7		ppb
-	Pb	208	5889251.4	104.86467	ppb
	Kr	83	-19036.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3bh

Sample Date: Friday, August 05, 2011 12:08:42

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
>	Li	6	42757.4		ppb
-	Be	9	6	-0.04758	ppb
-	Sc	45	210102.4		ppb
	Cr	52	52802	3.87066	ppb
	Cr	53	31094.1	-2.91524	ppb
	Mn	55	206242.7	12.43372	ppb
	Co	59	4675.9	0.29612	ppb
	Ni	60	9633.1	3.40171	ppb
	As	75	206.7	0.07337	ppb
	Se	77	2139.6	-8.68131	ppb
	Se	82	20.1	-0.00205	ppb
>	Rh	103	628722.7		ppb
	Cd	111	698.4	0.18725	ppb
-	Cd	114	1260.3	0.12599	ppb
-	Sb	121	3508.7	0.28064	ppb
	Sb	123	2625.6	0.27432	ppb
>	Ho	165	1237580.5		ppb
-	Pb	208	68200.4	1.05726	ppb
	Kr	83	-28.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3bh

Sample Date: Friday, August 05, 2011 12:10:52

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	45262.1		ppb
-	Be	9	14837.4	42.00105	ppb
-	Sc	45	229228.7		ppb
	Cr	52	564178.5	49.63451	ppb
	Cr	53	91566.9	43.50733	ppb
	Mn	55	969487.3	56.65115	ppb
	Co	59	649953.2	46.38472	ppb
	Ni	60	149812.8	52.88557	ppb
	As	75	94082.6	41.26595	ppb
	Se	77	8336.2	27.18389	ppb
	Se	82	8060.7	36.11874	ppb
>	Rh	103	662662.3		ppb
	Cd	111	132305.2	42.31594	ppb
-	Cd	114	309964.8	40.17133	ppb
-	Sb	121	481370.3	42.97819	ppb
	Sb	123	372520.8	43.41069	ppb
>	Ho	165	1297257.7		ppb
-	Pb	208	2848183.5	49.38985	ppb
	Kr	83	-24.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Friday, August 05, 2011 12:13:04

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	39703		ppb
-	Be	9	6.7	-0.04413	ppb
-	Sc	45	199110.5		ppb
	Cr	52	11789	0.02196	ppb
	Cr	53	42943.5	8.23317	ppb
	Mn	55	4114.9	-0.08002	ppb
	Co	59	241	-0.03713	ppb
	Ni	60	440.7	-0.02561	ppb
	As	75	-156.2	-0.0975	ppb
	Se	77	3849.5	2.81995	ppb
	Se	82	10.1	-0.04798	ppb
>	Rh	103	606642.9		ppb
	Cd	111	60.8	-0.02722	ppb
-	Cd	114	146.7	-0.0254	ppb
-	Sb	121	233.3	-0.02544	ppb
	Sb	123	169.7	-0.0251	ppb
>	Ho	165	1187263.5		ppb
-	Pb	208	4265.7	-0.10611	ppb
	Kr	83	89.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Friday, August 05, 2011 12:15:13

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	37830.2		ppb
-	Be	9	27281.2	92.48915	ppb
-	Sc	45	179789.2		ppb
	Cr	52	871117.2	92.14499	ppb
	Cr	53	144650.5	107.13771	ppb
	Mn	55	1246663.3	86.86989	ppb
	Co	59	1108558.2	94.19871	ppb
	Ni	60	242813.3	102.17776	ppb
	As	75	191301.4	99.87348	ppb
	Se	77	17252.4	99.09826	ppb
	Se	82	17715.2	94.61697	ppb
>	Rh	103	556895.2		ppb
	Cd	111	255284	97.2154	ppb
-	Cd	114	596732.5	92.08541	ppb
-	Sb	121	899903.4	93.36086	ppb
	Sb	123	693168	93.8572	ppb
>	Ho	165	1117116		ppb
-	Pb	208	5163854	104.18753	ppb
	Kr	83	-15944.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3bh

Sample Date: Friday, August 05, 2011 12:36:21

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	42096.1		ppb
-	Be	9	3.3	-0.05535	ppb
-	Sc	45	195980.8		ppb
	Cr	52	26904.1	1.50401	ppb
	Cr	53	40333	5.93225	ppb
	Mn	55	78959.9	4.71915	ppb
	Co	59	1997.6	0.09984	ppb
	Ni	60	4027.2	1.3599	ppb
	As	75	47.4	0.00033	ppb
	Se	77	3179.6	-1.52558	ppb
	Se	82	8.5	-0.0559	ppb
>	Rh	103	607487.1		ppb
	Cd	111	297.1	0.05536	ppb
-	Cd	114	588.5	0.03719	ppb
-	Sb	121	1429.4	0.08931	ppb
	Sb	123	1085.6	0.08961	ppb
>	Ho	165	1205661.2		ppb
-	Pb	208	31785	0.40809	ppb
	Kr	83	31.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-3bh

Sample Date: Friday, August 05, 2011 12:38:30

Sample Description: PACE

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	42603		ppb
-	Be	9	14987.3	45.07821	ppb
-	Sc	45	199111.4		ppb
	Cr	52	486800.6	47.17437	ppb
	Cr	53	93486.9	52.61208	ppb
	Mn	55	760678.2	48.97234	ppb
	Co	59	589655.4	46.40655	ppb
	Ni	60	132816.9	51.70047	ppb
	As	75	92712.9	44.84527	ppb
	Se	77	9368.5	38.95213	ppb
	Se	82	8148.2	40.27278	ppb
>	Rh	103	600921.1		ppb
	Cd	111	128939.6	45.47759	ppb
-	Cd	114	304248.9	43.48463	ppb
-	Sb	121	461904.1	44.84219	ppb
	Sb	123	357448.4	45.29264	ppb
>	Ho	165	1193134.9		ppb
-	Pb	208	2725943	51.40195	ppb
	Kr	83	33.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Friday, August 05, 2011 12:47:05

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6			ppb
-	Be	9			ppb
-	Sc	45			ppb
	Cr	52			ppb
	Cr	53			ppb
	Mn	55			ppb
	Co	59			ppb
	Ni	60			ppb
	As	75			ppb
	Se	77			ppb
	Se	82			ppb
>	Rh	103	514507.9		ppb
	Cd	111			ppb
-	Cd	114			ppb
-	Sb	121			ppb
	Sb	123			ppb
>	Ho	165	1092170.3		ppb
-	Pb	208	5705.7	-0.06932	ppb
	Kr	83	[80.0]		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Friday, August 05, 2011 12:48:42

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6			ppb
-	Be	9			ppb
-	Sc	45			ppb
	Cr	52			ppb
	Cr	53			ppb
	Mn	55			ppb
	Co	59			ppb
	Ni	60			ppb
	As	75			ppb
	Se	77			ppb
	Se	82			ppb
>	Rh	103	473901.6		ppb
	Cd	111			ppb
-	Cd	114			ppb
-	Sb	121			ppb
	Sb	123			ppb
>	Ho	165	1024855.8		ppb
-	Pb	208	4888866.8	107.51339	ppb
	Kr	83 [82.0]			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Date: Monday, August 08, 2011 09:27:08

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	112826.2		ppb
-	Sc	45	423813.8		ppb
	Cr	52	16791.5		ppb
	Cr	53	42101		ppb
	Mn	55	5269.5		ppb
	Co	59	312.3		ppb
	Ni	60	1339.4		ppb
>	Rh	103	887751.8		ppb
	Cd	111	122.2		ppb
-	Cd	114	296		ppb
>	Ho	165	1568747		ppb
	Pb	206	2140.6		ppb
	Pb	207	1709.8		ppb
-	Pb	208	8249.1		ppb
	Kr	83	97.4		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Date: Monday, August 08, 2011 09:28:53

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	117880.1		ppb
-	Sc	45	410787.4		ppb
	Cr	52	38577.7	1.24504	ppb
	Cr	53	45313.7	1.63453	ppb
	Mn	55	39184.7	1.12792	ppb
	Co	59	26759.7	1.19375	ppb
	Ni	60	5945.3	1.03299	ppb
>	Rh	103	881866.8		ppb
	Cd	111	5504.7	1.23228	ppb
-	Cd	114	12912.9	1.20496	ppb
>	Ho	165	1582751		ppb
	Pb	206	23746	1.19554	ppb
	Pb	207	19980.9	1.20792	ppb
-	Pb	208	93148.2	1.18627	ppb
	Kr	83	-271.6		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date: Monday, August 08, 2011 09:30:37

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	118039.7		ppb
	Sc	45	401375.1		ppb
	Cr	52	1723889	99.99755	ppb
	Cr	53	248170.6	99.99365	ppb
	Mn	55	2927780.1	99.99872	ppb
	Co	59	2151626.3	99.99806	ppb
	Ni	60	435054.4	99.99967	ppb
>	Rh	103	856206.6		ppb
	Cd	111	424307.7	99.99768	ppb
	Cd	114	1017036.3	99.99795	ppb
>	Ho	165	1549758.3		ppb
	Pb	206	1770271.7	99.99804	ppb
	Pb	207	1481641.8	99.99792	ppb
	Pb	208	7010190.4	99.99814	ppb
	Kr	83	-29068		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Monday, August 08, 2011 09:34:07

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	121227.6		ppb
	Sc	45	391578.4		ppb
	Cr	52	16298.3	0.00929	ppb
	Cr	53	40723.4	0.12498	ppb
	Mn	55	4899	-0.00569	ppb
	Co	59	314.7	0.00067	ppb
	Ni	60	1271.4	-0.00372	ppb
>	Rh	103	853285.8		ppb
	Cd	111	161.9	0.01049	ppb
	Cd	114	347.6	0.0062	ppb
>	Ho	165	1527616.6		ppb
	Pb	206	2235.3	0.00865	ppb
	Pb	207	1836.2	0.01174	ppb
	Pb	208	8499.2	0.00676	ppb
	Kr	83	82.2		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Monday, August 08, 2011 09:35:52

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	131856.9		ppb
	Sc	45	416165.8		ppb
	Cr	52	35326.2	0.97771	ppb
	Cr	53	43903.8	0.1405	ppb
	Mn	55	33747.2	0.90122	ppb
	Co	59	22943.6	0.97895	ppb
	Ni	60	5547.4	0.89309	ppb
>	Rh	103	919581.5		ppb
	Cd	111	4845.6	1.03619	ppb
	Cd	114	11445.5	1.02045	ppb
>	Ho	165	1638532.7		ppb
	Pb	206	20911.7	0.99961	ppb
	Pb	207	17307.8	0.99266	ppb
	Pb	208	81030.4	0.97873	ppb
	Kr	83	-210		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date: Monday, August 08, 2011 09:37:36

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	126869		ppb
	Sc	45	396228.6		ppb
	Cr	52	4357473	253.93316	ppb
	Cr	53	539412.2	240.01093	ppb
	Mn	55	6902500.7	235.75082	ppb
	Co	59	5073742.6	235.57751	ppb
	Ni	60	1026839.7	236.1765	ppb
>	Rh	103	857078.9		ppb
	Cd	111	1028181.8	242.12104	ppb
	Cd	114	2533413.4	248.89073	ppb
>	Ho	165	1559650.8		ppb
	Pb	206	4426473	248.63638	ppb
	Pb	207	3677220.9	246.78183	ppb
	Pb	208	17093835	242.46378	ppb
	Kr	83	-71546.7		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Monday, August 08, 2011 09:39:22

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	123153.3		ppb
	Sc	45	383196.7		ppb
	Cr	52	1657374.2	99.64279	ppb
	Cr	53	235661.8	98.11119	ppb
	Mn	55	2764164.7	97.84935	ppb
	Co	59	1926480.2	92.79464	ppb
	Ni	60	409277.5	97.4993	ppb
>	Rh	103	826149		ppb
	Cd	111	422934.3	103.30621	ppb
	Cd	114	988012.7	100.68566	ppb
>	Ho	165	1486938.2		ppb
	Pb	206	1710288.6	100.68715	ppb
	Pb	207	1429248.8	100.54096	ppb
	Pb	208	6851077.8	101.86338	ppb
	Kr	83	-28182.1		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Date: Monday, August 08, 2011 09:41:07

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	129184.2		ppb
	Sc	45	394858.7		ppb
	Cr	52	841017.4	47.93681	ppb
	Cr	53	140853.1	47.80086	ppb
	Mn	55	1329108	44.97368	ppb
	Co	59	970155.6	44.75485	ppb
	Ni	60	205597.3	46.7607	ppb
>	Rh	103	862551.5		ppb
	Cd	111	213011	49.82336	ppb
	Cd	114	512172.1	49.97484	ppb
>	Ho	165	1563835.3		ppb
	Pb	206	849989.5	47.51874	ppb
	Pb	207	761084.4	50.84926	ppb
	Pb	208	3424983.4	48.35705	ppb
	Kr	83	81.2		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Da: Monday, August 08, 2011 09:42:53

Sample De: Pace

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
	Li	6	136243.5		ppb
	Sc	45	400156		ppb
	Cr	52	34013.9	0.96099	ppb
	Cr	53	43758.4	0.64713	ppb
	Mn	55	32296.9	0.8854	ppb
	Co	59	22145.6	0.97289	ppb
	Ni	60	5150.1	0.84039	ppb
>	Rh	103	893179.5		ppb
	Cd	111	4767.7	1.04954	ppb
	Cd	114	11262.6	1.03374	ppb
>	Ho	165	1602061.4		ppb
	Pb	206	20486.7	1.00126	ppb
	Pb	207	17179.6	1.00881	ppb
	Pb	208	79947.4	0.9881	ppb
	Kr	83	-206		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-4 FH

Sample Da: Monday, August 08, 2011 09:44:40

Sample De: Pace

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
	Li	6	139601.1		ppb
	Sc	45	494194.3		ppb
	Cr	52	579167.8	28.02589	ppb
	Cr	53	83208.8	14.70426	ppb
	Mn	55	1059317.6	30.79276	ppb
	Co	59	9937.4	0.38074	ppb
	Ni	60	47823.2	9.12287	ppb
>	Rh	103	1002286.3		ppb
	Cd	111	341816	68.84182	ppb
	Cd	114	805022.4	67.62635	ppb
>	Ho	165	1832055.9		ppb
	Pb	206	80039.5	3.70944	ppb
	Pb	207	62730.1	3.47124	ppb
	Pb	208	295048.3	3.448	ppb
	Kr	83	-1888.5		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17096-4 BH

Sample Da: Monday, August 08, 2011 09:46:24

Sample De: Pace

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
	Li	6	140905.8		ppb
	Sc	45	486293		ppb
	Cr	52	1167992.5	58.44174	ppb
	Cr	53	148122.6	42.40234	ppb
	Mn	55	5214495.2	154.74271	ppb
	Co	59	41441.3	1.65872	ppb
	Ni	60	102701.7	20.26301	ppb
>	Rh	103	986023		ppb
	Cd	111	10831.3	2.18936	ppb
	Cd	114	22609.6	1.9032	ppb
>	Ho	165	1860883		ppb
	Pb	206	82342	3.75842	ppb
	Pb	207	69607.2	3.80287	ppb
	Pb	208	321438.6	3.70669	ppb
	Kr	83	-373.4		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Monday, August 08, 2011 09:48:11

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	135553.1		ppb
	Sc	45	386614.8		ppb
	Cr	52	12544.7	-0.1884	ppb
	Cr	53	31464.7	-3.8796	ppb
	Mn	55	4522.1	-0.01389	ppb
	Co	59	272.7	-0.0009	ppb
	Ni	60	1173.7	-0.01808	ppb
>	Rh	103	828006.1		ppb
	Cd	111	160	0.0112	ppb
	Cd	114	328	0.00524	ppb
>	Ho	165	1509456.6		ppb
	Pb	206	2111.6	0.00306	ppb
	Pb	207	1730.5	0.00603	ppb
	Pb	208	8189.8	0.00374	ppb
	Kr	83	69.5		ppb

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Monday, August 08, 2011 09:49:56

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
	Li	6	135762.1		ppb
	Sc	45	367450.6		ppb
	Cr	52	1558823.1	95.5689	ppb
	Cr	53	223694.8	94.38089	ppb
	Mn	55	2624560	94.77399	ppb
	Co	59	1854609.9	91.14156	ppb
	Ni	60	392277.8	95.31846	ppb
>	Rh	103	809768.1		ppb
	Cd	111	414544.8	103.30956	ppb
	Cd	114	982127.7	102.10299	ppb
>	Ho	165	1495810.6		ppb
	Pb	206	1700452	99.52019	ppb
	Pb	207	1433187.3	100.22254	ppb
	Pb	208	6818733.6	100.77978	ppb
	Kr	83	-27934.7		ppb

Pace Analytical Services, Inc.

1700 Elm St. Suite 200
Minneapolis, MN 55414

FHR - ICR
Project # 1108-200

Analytical Report
(0811-19)

EPA Method 26A

Hydrogen fluoride, Hydrogen chloride, and Chloride

EPA CTM-027

Ammonia

EPA OTM-029

Hydrogen cyanide




Enthalpy Analytical, Inc.

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
2202 Ellis Road Durham, NC 27703 - 5518

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 213 pages.


QA Review Performed by – Bonnie L Evans

Report Issued: 09/08/2011



Summary of Results

Company	Pace Analytical Services
Analyst	EO
Parameters	EPA Method 26A

Client #	1108-200
Job #	0811-19
# Samples	3 Samples and 3 blanks

Compound	Sample ID / Catch Weight (ug)		
	M26A-T1 R1	M26A-T1 R2	M26A-T1 R3
Hydrogen fluoride	150 ND	151 ND	152 ND
Hydrogen chloride	7,021	6,722	6,884
	M26A-T1 R0	M26A-T1R00 H2SO4 RB	M26A-T1R00 DI H2O RB
Hydrogen fluoride	85.9 ND	21.5 ND	2.15 ND
Hydrogen chloride	83.9 ND	21.0 ND	2.10 ND

Company	Pace Analytical Services
Analyst	EO
Parameters	EPA Method 26A

Client #	1108-200
Job #	0811-19
# Samples	3 Runs & 2 blanks

Compound	Sample ID / Catch Weight (ug)		
	<i>M26A-T1 R1 Imp 3</i>	<i>M26A-T1 R2 Imp 3</i>	<i>M26A-T1 R3 Imp 3</i>
Chloride	60.0 ND	58.0 ND	60.0 ND
	<i>T1R0I3</i>	<i>T1R00 NaOH RB</i>	
Chloride	67.0 ND	20.4 ND	

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA CTM-027

Client #	1108-200
Job #	0811-19
# Samples	3 Runs & 4 blanks

Compound	Sample ID / Catch Weight (ug)		
Ammonia	M26A-T1 R1 20,484	M26A-T1 R2 19,536	M26A-T1 R3 17,147
Ammonia	M26A-T1 R0 317	T1R00 DI H2O Blank 340	T1R00 H2SO4 Blank 3.43 ND

Company	Pace Analytical Services
Analyst	AMP
Parameters	EPA OTM-029

Client #	1108-200
Job #	0811-19
# Samples	3 Runs, 4 blanks, 1 spike

Compound	Sample ID / Catch Weight (ug)		
Hydrogen cyanide	OTM29-T1R2 4,679	OTM29-T1R3 4,626	OTM29-T1R4 4,496
Hydrogen cyanide	OTM29-T1R0 24.8 ND	OTM29-T1R00-6N 9.78 ND	OTM29-T1R00-0.1N 2.19 ND
Hydrogen cyanide	OTM29-T1R000-Recovery Spike 1,083		

Results

Company	Pace Analytical Services
Analyst	EO
Parameters	EPA Method 26A

Client #	1108-200
Job #	0811-19
# Samples	3 Samples and 3 blanks

MDL 0.0200 (ug/mL) Lower Curve Limit 0.200 (ug/mL)
 LOQ 0.200 (ug/mL) Upper Curve Limit 15.0 (ug/mL)
 Compound Hydrogen fluoride

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Conv Factor	Catch Weight (ug)	Qual
M26A-T1 R1 Imp1,2,PW	008-0901.D	008-0902.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	711	1.053	150	ND
M26A-T1 R2 Imp1,2,PW	011-1201.D	011-1202.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	718	1.053	151	ND
M26A-T1 R3 Imp1,2,PW	012-1301.D	012-1302.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	721	1.053	152	ND
M26A-T1 R0 Imp1,2,PW	013-1401.D	013-1402.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	408	1.053	85.9	ND
M26A-T1R00 H2SO4 RB	020-2301.D	020-2302.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	102	1.053	21.5	ND
M26A-T1R00 DI H2O RB	022-2501.D	022-2502.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	1	102	1.053	2.15	ND
0.01N H2SO4/NaOH RB	007-0801.D	007-0802.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	1	1.00	1.053	0.0211	ND
MS T1R1I1,2,PW	009-1001.D	009-1002.D	HPLC63PG8.M	2.67	2.67	0.0	3.39	3.38	0.3	3.39	1	10.0	1.053	35.7	
													Spike Amount (ug)	31.6	
													Native Amount (ug)	0.00	
													Spike Recovery (%)	113%	
MSD T1R1I1,2,PW	010-1101.D	010-1102.D	HPLC63PG8.M	2.67	2.67	0.0	3.42	3.48	1.0	3.45	1	10.0	1.053	36.3	
													Spike Amount (ug)	31.6	
													Native Amount (ug)	0.00	
													Spike Recovery (%)	115%	
HPLC63pg8 #SS	006-0701.D	006-0702.D	HPLC63PG8.M	2.66	2.66	0.0	1.34	1.33	0.2	1.34	1	1.00	1.053	1.41	
													Spike Amount (ug)	1.32	
													Spike Recovery (%)	107%	

Company	Pace Analytical Services
Analyst	EO
Parameters	EPA Method 26A

Client #	1108-200
Job #	0811-19
# Samples	3 Samples and 3 blanks

MDL 0.0200 (ug/mL) Lower Curve Limit 0.200 (ug/mL)
 LOQ 0.200 (ug/mL) Upper Curve Limit 15.0 (ug/mL)
 Compound Hydrogen chloride

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Conv Factor	Catch Weight (ug)	Qual
M26A-T1 R1 Imp1,2,PW	008-0901.D	008-0902.D	HPLC63PG8.M	3.53	3.53	0.1	0.961	0.960	0.0	0.961	10	711	1.028	7,021	
M26A-T1 R2 Imp1,2,PW	011-1201.D	011-1202.D	HPLC63PG8.M	3.53	3.53	0.1	0.912	0.910	0.1	0.911	10	718	1.028	6,722	
M26A-T1 R3 Imp1,2,PW	012-1301.D	012-1302.D	HPLC63PG8.M	3.53	3.53	0.0	0.930	0.927	0.2	0.929	10	721	1.028	6,884	
M26A-T1 R0 Imp1,2,PW	013-1401.D	013-1402.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	408	1.028	83.9	ND
M26A-T1R00 H2SO4 RB	020-2301.D	020-2302.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	102	1.028	21.0	ND
M26A-T1R00 DI H2O RB	022-2501.D	022-2502.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	1	102	1.028	2.10	ND
0.01N H2SO4/NaOH RB	007-0801.D	007-0802.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	1	1.00	1.028	0.0206	ND
MS T1R1I1,2,PW	009-1001.D	009-1002.D	HPLC63PG8.M	3.53	3.52	0.0	3.81	3.80	0.2	3.80	1	10.0	1.028	39.1	
														Spike Amount (ug)	30.8
														Native Amount (ug)	9.87
														Spike Recovery (%)	94.7%
MSD T1R1I1,2,PW	010-1101.D	010-1102.D	HPLC63PG8.M	3.53	3.52	0.1	3.84	3.89	0.6	3.87	1	10.0	1.028	39.7	
														Spike Amount (ug)	30.8
														Native Amount (ug)	9.87
														Spike Recovery (%)	96.9%
HPLC63pg8 #SS	006-0701.D	006-0702.D	HPLC63PG8.M	3.53	3.53	0.0	2.41	2.41	0.1	2.41	1	1.00	1.028	2.48	
														Spike Amount (ug)	2.57
														Spike Recovery (%)	96.5%

Company	Pace Analytical Services
Analyst	EO
Parameters	EPA Method 26A

Client #	1108-200
Job #	0811-19
# Samples	3 Runs & 2 blanks

MDL 0.0200 (ug/mL)
 LOQ 0.200 (ug/mL)
 Compound Chloride

Lower Curve Limit 0.200 (ug/mL)
 Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
M26A-T1 R1 Imp 3	014-1501.D	014-1502.D	HPLC63PG8CL.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	300	60.0	ND
M26A-T1 R2 Imp 3	017-2001.D	017-2002.D	HPLC63PG8CL.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	290	58.0	ND
M26A-T1 R3 Imp 3	018-2101.D	018-2102.D	HPLC63PG8CL.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	300	60.0	ND
T1R0I3	019-2201.D	019-2202.D	HPLC63PG8CL.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	335	67.0	ND
T1R00 NaOH RB	021-2401.D	021-2402.D	HPLC63PG8CL.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	10	102	20.4	ND
0.01N H2SO4/NaOH RB	007-0801.D	007-0802.D	HPLC63PG8.M	NA	NA	NA	0.0200	0.0200	0.0	0.0200	1	1.00	0.0200	ND
MS T1R1I3	015-1601.D	015-1602.D	HPLC63PG8CL.M	3.50	3.51	0.1	2.85	2.84	0.2	2.85	1	10.0	28.5	
													Spike Amount (ug)	30.0
													Native Amount (ug)	0.00
													Spike Recovery (%)	94.9%
MSD T1R1I3	016-1901.D	016-1902.D	HPLC63PG8CL.M	3.51	3.50	0.0	2.82	2.82	0.1	2.82	1	10.0	28.2	
													Spike Amount (ug)	30.0
													Native Amount (ug)	0.00
													Spike Recovery (%)	94.0%
HPLC63pg8 #SS	006-0701.D	006-0702.D	HPLC63PG8.M	3.53	3.53	0.0	2.41	2.41	0.1	2.41	1	1.00	2.41	
													Spike Amount (ug)	2.50
													Spike Recovery (%)	96.5%

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA CTM-027

Client #	1108-200
Job #	0811-19
# Samples	3 Runs & 4 blanks

MDL 0.0336 (ug/mL)
LOQ 0.235 (ug/mL)
Compound Ammonia

Lower Curve Limit 0.235 (ug/mL)
Upper Curve Limit 11.1 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
M26A-T1 R1 Imp 1, 2	059-3601.D	059-3602.D	HPLC59PG136.M	4.76	4.76	0.0	3.77	3.77	0.1	3.77	10	535	20,157	
M26A-T1 R1 PW	043-1301.D	043-1302.D	HPLC59PG136.M	4.78	4.77	0.4	1.86	1.86	0.0	1.86	1	176	327	
													20,484	
M26A-T1 R2 Imp 1, 2	055-3201.D	055-3202.D	HPLC59PG136.M	4.76	4.75	0.1	7.50	7.49	0.1	7.50	5	510	19,119	
M26A-T1 R2 PW	045-1501.D	045-1502.D	HPLC59PG136.M	4.77	4.76	0.0	2.01	2.00	0.2	2.00	1	208	417	
													19,536	
M26A-T1 R3 Imp 1, 2	056-3301.D	056-3302.D	HPLC59PG136.M	4.75	4.75	0.0	6.51	6.53	0.1	6.52	5	513	16,726	
M26A-T1 R3 PW	047-1701.D	047-1702.D	HPLC59PG136.M	4.77	4.77	0.0	2.03	2.01	0.3	2.02	1	208	420	
													17,147	
M26A-T1 R0 Imp 1, 2	048-2001.D	048-2002.D	HPLC59PG136.M	4.75	4.74	0.0	1.06	1.06	0.1	1.06	1	300	317	
M26A-T1 R0 PW	049-2101.D	049-2102.D	HPLC59PG136.M	NA	NA	NA	0.0336	0.0336	0.0	0.0336	1	108	3.63	ND
													317	
T1R00 DI H2O Blank	050-2201.D	050-2202.D	HPLC59PG136.M	4.78	4.78	0.1	3.35	3.31	0.5	3.33	1	102	340	
T1R00 H2SO4 Blank	051-2301.D	051-2302.D	HPLC59PG136.M	NA	NA	NA	0.0336	0.0336	0.0	0.0336	1	102	3.43	ND
0.04N H2SO4 RB	039-0901.D	039-0902.D	HPLC59PG136.M	NA	NA	NA	0.0336	0.0336	0.0	0.0336	1	1.00	0.0336	ND
0.04N H2SO4 RB	039-2801.D	039-2802.D	HPLC59PG136.M	NA	NA	NA	0.0336	0.0336	0.0	0.0336	1	1.00	0.0336	ND
MS T1R11i,2 *10	060-3901.D	060-3902.D	HPLC59PG136.M	4.77	4.78	0.2	7.34	7.31	0.2	7.33	1	0.800	5.86	
													Spike Amount (ug)	2.83
													Native Amount (ug)	2.90
													Spike Recovery (%)	105%

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA CTM-027

Client #	1108-200
Job #	0811-19
# Samples	3 Runs & 4 blanks

MDL 0.0336 (ug/mL)
LOQ 0.235 (ug/mL)
Compound Ammonia

Lower Curve Limit 0.235 (ug/mL)
Upper Curve Limit 11.1 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
MSD T1R1I1,2 *10	061-4001.D	061-4002.D	HPLC59PG136.M	4.78	4.78	0.1	7.32	7.30	0.2	7.31	1	0.800	5.85	
													Spike Amount (ug)	2.83
													Native Amount (ug)	2.90
													Spike Recovery (%)	104%
HPLC59pg136 #SS	038-0801.D	038-0802.D	HPLC59PG136.M	4.75	4.75	0.0	5.37	5.39	0.2	5.38	1	1.00	5.38	
													Spike Amount (ug)	5.55
													Spike Recovery (%)	96.9%
HPLC59pg136 #SS	038-2701.D	038-2702.D	HPLC59PG136.M	4.76	4.75	0.1	5.00	5.16	1.6	5.08	1	1.00	5.08	
													Spike Amount (ug)	5.55
													Spike Recovery (%)	91.5%

Company	Pace Analytical Services
Analyst	AMP
Parameters	EPA OTM-029

Client #	1108-200
Job #	0811-19
# Samples	3 Runs, 4 blanks, 1 spike

MDL 0.0146 (ug/mL) Lower Curve Limit 0.0998 (ug/mL)
 LOQ 0.0998 (ug/mL) Upper Curve Limit 2.50 (ug/mL)
 Compound Hydrogen cyanide

Sample ID	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
OTM29-T1R2 NaOH Imp 1&2	HCN-method	8.18	8.18	0.0	0.274	0.278	0.7	0.276	20	633	3,496	
OTM29-T1R2 NaOH Imp 3	HCN-method	8.10	8.08	0.2	0.895	0.933	2.1	0.914	5	259	1,183	
											4,679	
OTM29-T1R3 NaOH Imp 1&2	HCN-method	8.12	8.12	0.0	0.268	0.270	0.4	0.269	20	592	3,186	
OTM29-T1R3 NaOH Imp 3	HCN-method	8.10	8.10	0.0	1.01	0.993	0.6	1.00	5	288	1,439	
											4,626	
OTM29-T1R4 NaOH Imp 1&2	HCN-method	8.10	8.12	0.2	0.317	0.321	0.7	0.319	20	537	3,428	
OTM29-T1R4 NaOH Imp 3	HCN-method	8.08	8.08	0.0	0.873	0.843	1.8	0.858	5	249	1,068	
											4,496	
OTM29-T1R0 NaOH Imp 1&2	HCN-method	NA	NA	NA	0.0146	0.0146	0.0	0.0146	5	340	24.8	ND
OTM29-T1R0 NaOH Imp 3	HCN-method	NA	NA	NA	0.0146	0.0146	0.0	0.0146	5	150	11.0	ND
											24.8	ND
OTM29-T1R00-6N NaOH Blank	HCN-method	NA	NA	NA	0.0146	0.0146	0.0	0.0146	5	134	9.78	ND
OTM29-T1R00-0.1N NaOH Blank	HCN-method	NA	NA	NA	0.0146	0.0146	0.0	0.0146	1	150	2.19	ND
OTM29-T1R000-Recovery Spike	HCN-method	8.10	8.10	0.0	0.537	0.520	1.6	0.528	10	205	1,083	
											Spike Amount (ug)	992
											Spike Recovery (%)	109%
Hplc60pg20 #RB	HCN-method	NA	NA	NA	0.0146	0.0146	0.0	0.0146	1	1.00	0.0146	ND

Company	Pace Analytical Services
Analyst	AMP
Parameters	EPA OTM-029

Client #	1108-200
Job #	0811-19
# Samples	3 Runs, 4 blanks, 1 spike

MDL 0.0146 (ug/mL) Lower Curve Limit 0.0998 (ug/mL)
 LOQ 0.0998 (ug/mL) Upper Curve Limit 2.50 (ug/mL)
 Compound Hydrogen cyanide

Sample ID	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
MS/T1R2-6N NaOH Imp 1&2	HCN-method	8.18	8.13	0.6	1.21	1.22	0.2	1.21	1	1.05	1.27	
Spike Amount (ug)											1.25	
Native Amount (ug)											0.276	
Spike Recovery (%)											79.7%	
MSD/T1R2-6N NaOH Imp 1&2	HCN-method	8.12	8.12	0.0	1.21	1.18	1.3	1.19	1	1.05	1.25	
Spike Amount (ug)											1.25	
Native Amount (ug)											0.276	
Spike Recovery (%)											77.9%	
Hplc60pg20 #SS	HCN-method	8.58	8.60	0.2	0.492	0.471	2.1	0.481	1	1.00	0.481	
Spike Amount (ug)											0.440	
Spike Recovery (%)											109%	

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	EO
Parameters	EPA Method 26A

Client #	1108-200
Job #	0811-19
# Samples	3 Runs & 3 blanks

Custody

Lindsey Chatterton of Enthalpy Analytical, Inc. received the samples on 8/2/11 at 19.7°C after being relinquished by Pace Analytical Services, Inc. The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for hydrogen chloride, hydrogen fluoride, and chloride using the analytical procedures in EPA Method 26A, Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources Isokinetic Method (40 CFR Part 60, Appendix A).

The samples were analyzed following the procedures in Section 11.0, Analytical Procedures. All samples and standards were prepared, stored, and analyzed using high-density polyethylene containers.

Proportional aliquots were taken from the *Imp1*, *Imp2*, and *PW* sample fractions and combined for a single analysis.

The Metrohm 861 Compact IC ("Smithers" S/N 1861002007189) was equipped with a Metrohm 861 Conductivity Detector and a Metrosep A Supp 5 - 110/4.0mm (S/N # 7908289) column.

Calibration

The calibration curves are located in the Calibration Curve Chromatograms section of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition method METROHM.M is included in the Calibration Curve Chromatograms section of this report.



Enthalpy Analytical Narrative Summary

(continued)

QC Notes

As required in Section 7.2.2, Absorbing Solution Blanks, client-provided reagent blanks were analyzed. Additionally, a quality control check sample was analyzed at the same time as the blanks and samples. All method required acceptance criteria were met.

Matrix spike samples in duplicate (MS/MSD) were prepared using aliquots of the sample, *T1R1 Imp 1,2, PW*. The recoveries ranged from 94.7% to 115%.

All sample preparation and analytical holding times specified in the method were met. Section 13.2, Sample Stability, specifies an analytical holding time of four weeks.

Reporting Notes

The results presented in this report are representative of the samples as provided to the laboratory.

The sulfuric acid matrix samples were analyzed for chloride and fluoride but are reported as hydrogen chloride and hydrogen fluoride. The results were converted using an acid conversion factor of 1.028 for hydrogen chloride and 1.053 for hydrogen fluoride.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA CTM-027

Client #	1108-200
Job #	0811-19
# Samples	3 Runs & 4 blanks

Custody	Lindsey Chatterton of Enthalpy Analytical, Inc. received the samples on 8/2/11 at 19.7°C after being relinquished by Pace Analytical Services, Inc. The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.
Analysis	<p>The samples were analyzed for ammonia using the analytical procedures in EPA Conditional Test Method 027, Procedure for Collection and Analysis of Ammonia in Stationary Sources.</p> <p>The samples were analyzed following the procedures in Section 4.2, Sample Analysis.</p> <p>Proportional aliquots of the <i>Impinger 1</i> and <i>Impinger 2</i> sample fractions were taken and combined for a single analysis.</p> <p>The Agilent Model 1100, High Performance Liquid Chromatograph ("Curly") was equipped with a Dionex CD20 Conductivity Detector and a Dionex Ion Pac CS12, 4 x 250 mm (S/N 009567) column.</p>
Calibration	<p>The calibration curve is located in the Calibration Curve Chromatograms section of this report and referenced in the Analysis Method column on the Detailed Results page.</p> <p>For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.</p>
Chromatographic Conditions	The acquisition method AMMONIA.M is included in the Calibration Curve Chromatograms section of this report.
QC Notes	Matrix spikes samples in duplicate (MS/MSD) were prepared using an aliquot of the sample, <i>TIR1Imp1,2</i> . The recoveries were 105% and 104% for MS and MSD respectively.

Enthalpy Analytical Narrative Summary

(continued)

QC Notes (continued)

Second source standards were prepared and analyzed as Laboratory Control Samples (LCSs). The recoveries were 96.9% and 91.5%.

All sample preparation and analytical holding times specified in the method were met. In Section 4.1, Sample Preparation, the specified analytical holding time is two weeks from sampling date.

Reporting Notes

The results presented in this report are representative of the samples as provided to the laboratory.

Confirmational analyses were completed for the samples, ***M26A-T1R00 DI H2O Blank*** and ***M26A-T1 R0 Imp1,2***. The data agreed with the initial results. The initial data was reported.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	AMP
Parameters	EPA OTM-029

Client #	1108-200
Job #	0811-19
# Samples	3 Runs, 4 blanks, 1 spike

Custody	Lindsey Chatterton of Enthalpy Analytical, Inc. received the samples on 8/2/11 at 19.7 °C after being relinquished by Pace Analytical Services, Inc. The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.
Analysis	<p>The samples were analyzed for Hydrogen cyanide using the analytical procedures in EPA OTM-029, Sampling and Analysis for Hydrogen Cyanide Emissions from Stationary Sources.</p> <p>The samples were at a pH of 14.</p> <p>The ICS-3000 Ion Chromatograph (Flanders) was equipped with a Electrochemical Detector and a Dionex Ion Pac AS7, 4 x 250 mm (S/N 011640) column.</p>
Calibration	<p>The calibration curve is located in the Calibration Curve Chromatograms section of this report and referenced in the Analysis Method column on the Detailed Results page.</p> <p>For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.</p> <p>The continuing calibration check standards did not meet the method criteria of +/- 10% of the calibration curve. The standards were within 20%.</p>
Chromatographic Conditions	The acquisition method HCN is included in the Calibration Curve Chromatograms section of this report.
QC Notes	<p>The samples were analyzed 11 days outside the method recommended holding time of 30 days.</p> <p>Four blank sample fractions were received and analyzed, no blank adjustment were made to the reported results.</p>

Enthalpy Analytical Narrative Summary

(continued)

QC Notes (continued)

Prior to sample collection, the laboratory prepared and sent to the client aqueous spikes containing 992 µg of HCN. The sample, **OTM29-T1R000-Recovery Spike** exhibited a recovery of 109%.

Duplicate matrix spikes were prepared using aliquots of the sample **T1R2-6N NaOH Imp 1&2**. The recoveries were 79.7% and 77.9%.

Reporting Notes

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. data reports, unless specifically noted otherwise.

- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** following a value indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).
- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two extra spikes are prepared. The extras (randomly chosen) are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection and/or sample transport.



General Reporting Notes

(continued)

- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an “M”. There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations. The peak was *not integrated* by the software “**NI**”, the peak was *integrated incorrectly* by the software “**II**” or the *wrong peak* was integrated by the software “**WP**”. These codes will accompany the analyst’s manual integration stamp placed next to the compound name.

Sample Custody



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A

Required Client Information:

Company: **PACE NW FIELD**
Address: **1700 ELM ST**
MINNEAPOLIS MN 55414

Email To: **SAM@TANONAN.COM**

Phone: **612 759 7510** Fax: **612 607 6444**

Requested Due Date/TAT: **RUSH**

Section B

Required Project Information:

Report To: **T. BORGERDING**
Copy To: **SAM@TANONAN.COM**

Purchase Order No.: **1108-200**

Project Name: **FHR FCC-ICR**

Project Number: **1108-200**

Section C

Invoice Information:

Attention: **C.J. RUIKIE**
Company Name: **PACE NW FIELD**

Address: **1700 ELM ST**

Pace Quote Reference: _____

Pace Project Manager: _____

Pace Profile #: _____

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ Other **USEPA**

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER _____

Section D Required Client Information

SAMPLE ID

One Character per box.

(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes
MATRIX CODE
DRINKING WATER DW
WATER WT
WASTE WATER WW
PRODUCT P
SOIL/SOLID SL
OIL OL
WIPE WP
AIR AR
OTHER OT
TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP
1	FCC (SUDDI) STACK	TIR1	7/28/11
2	↓	TIR2	↓
3	↓	TIR3	↓
4	TRAIN BLANK	TIR4	↓
5	REAGENT BLANK	TIR5	↓
6			
7			
8			
9			
10			
11			
12			

Additional Comments:

RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITION

M. A. McDERMOTT			Rig M. McEntropy	8/2/11	1:35 pm	Temp = 31.7 °N	Y/N
						Reagent Blank	Y/N
							Y/N
							Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

MATTHEW A. McDERMOTT

SIGNATURE OF SAMPLER:

M. A. McDERMOTT

DATE Signed (MM / DD / YY)

7/29/11

FHR Pine Bend

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BC

Temp

Reagent

Blank

on ice

Custody

Sealed

Cooler

Samples

Intact

Pace Analytical
FSD 1108-200

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1
926317

Section A

Required Client Information:

Company: POLEMAN TIRE
Address: 1700 Elm St
Mishawaka, IN 46544
Email To: SAMUEL TRONZANO@PALEPULP.COM
Phone: 612 759 7510 Fax: 612 607 6444
Requested Due Date/TAT: RUSH

Section B

Required Project Information:

Report To: SAMUEL TRONZANO
Copy To: JERRY BUNENHAGEN
Purchase Order No.: 1108-200
Project Name: FARELN
Project Number: 1108-200

Section C

Invoice Information:

Attention: CS KAREE
Company Name: PALEPULP
Address: 1700 Elm St
Pace Quote Reference: _____
Pace Project Manager: _____
Pace Profile #: _____

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ Other: USEPA
SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER: _____

ITEM #	Section D Required Client Information										Valid Matrix Codes		CODE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Filtered (Y/N)	Requested Analysis:	Pace Project Number	Lab I.D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	SAMPLE ID										DRINKING WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	COMPOSITE START				COMPOSITE END/GRAB		Unpreserved	Refrigerated			HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
	8-1-11	1430	CS KAREE Earthlink	8/2/11	1:15pm	Temp: 79.7 °F Analyte: Benzene
						Y/N
						Y/N
						Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SAMUEL TRONZANO
SIGNATURE of SAMPLER:

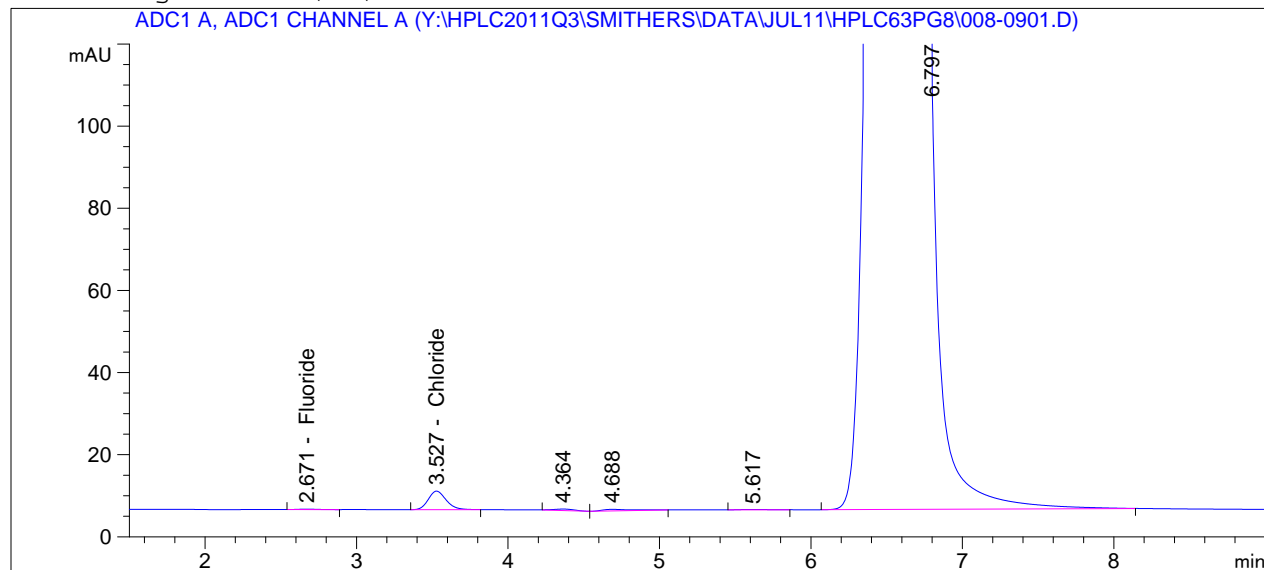
DATE Signed (MM / DD / YY)

8-1-11

FHR Print Legend
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Temp °C
Refrigerated
Custody Sealed Cooler
Samples Intact

Sample Chromatograms

```
=====
Acq. Operator   : EO                               Seq. Line :    9
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 5:54:21 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

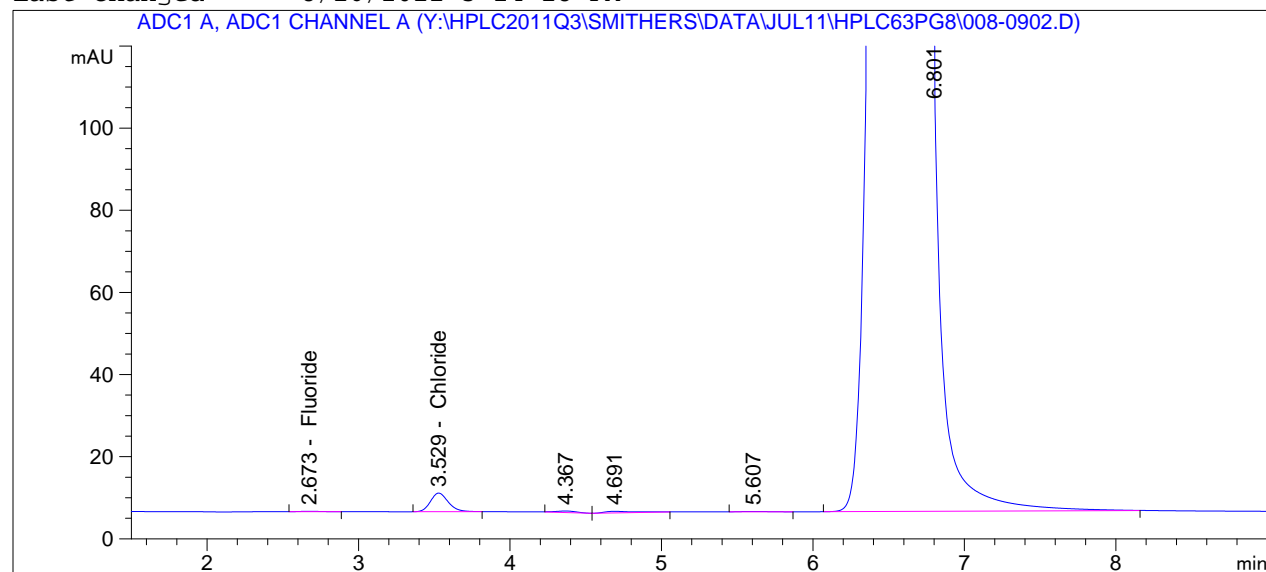
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.671	BB	9.05295e-1	1.56729e-2	1.41886e-2		Fluoride
3.527	BB	37.16477	2.58537e-2	9.60848e-1		Chloride

Totals : 9.75036e-1

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : EO                      Seq. Line :    9
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 6:05:37 PM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

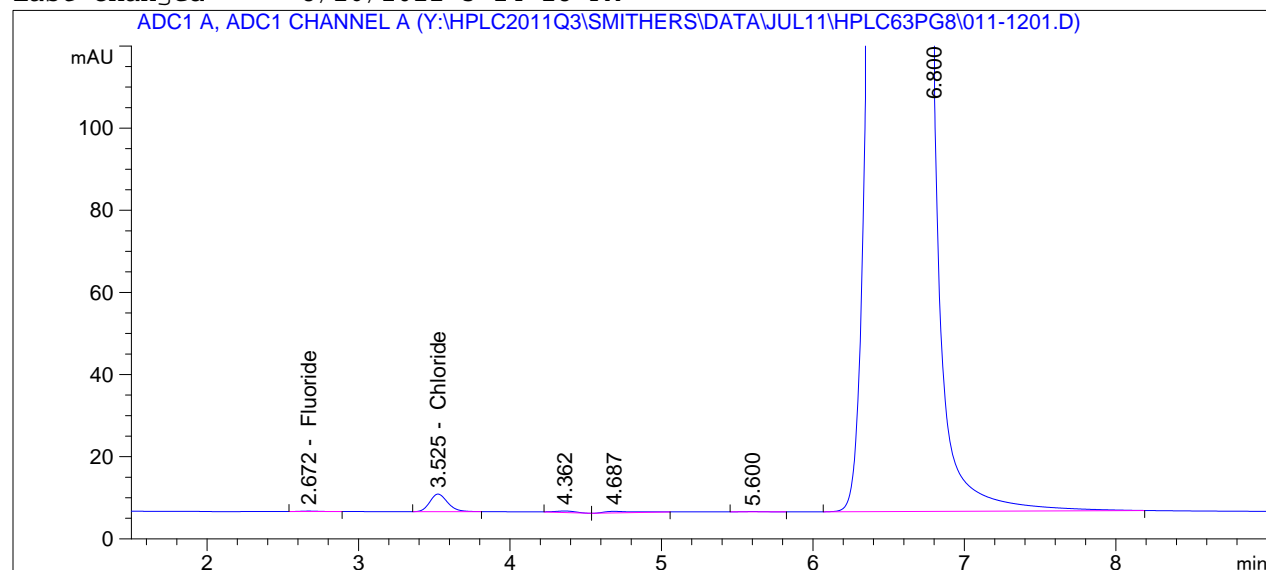
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.673	BB	9.04062e-1	1.56729e-2	1.41692e-2		Fluoride
3.529	BB	37.13827	2.58545e-2	9.60190e-1		Chloride

Totals : 9.74360e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   12
Acq. Instrument : Smithers                 Location  :    -
Injection Date  : 8/15/2011 7:01:58 PM      Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

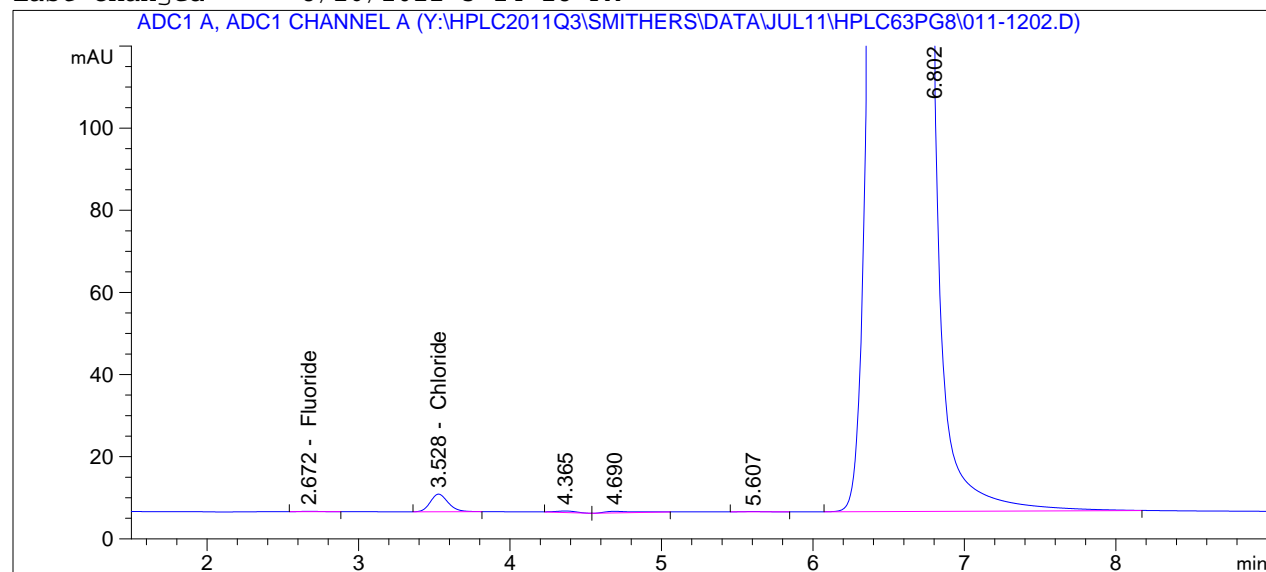
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.672	BB	9.95686e-1	1.56729e-2	1.56052e-2		Fluoride
3.525	BB	35.19096	2.59132e-2	9.11911e-1		Chloride

Totals : 9.27516e-1

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   12
Acq. Instrument : Smithers                 Location  :    -
Injection Date  : 8/15/2011 7:13:14 PM      Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

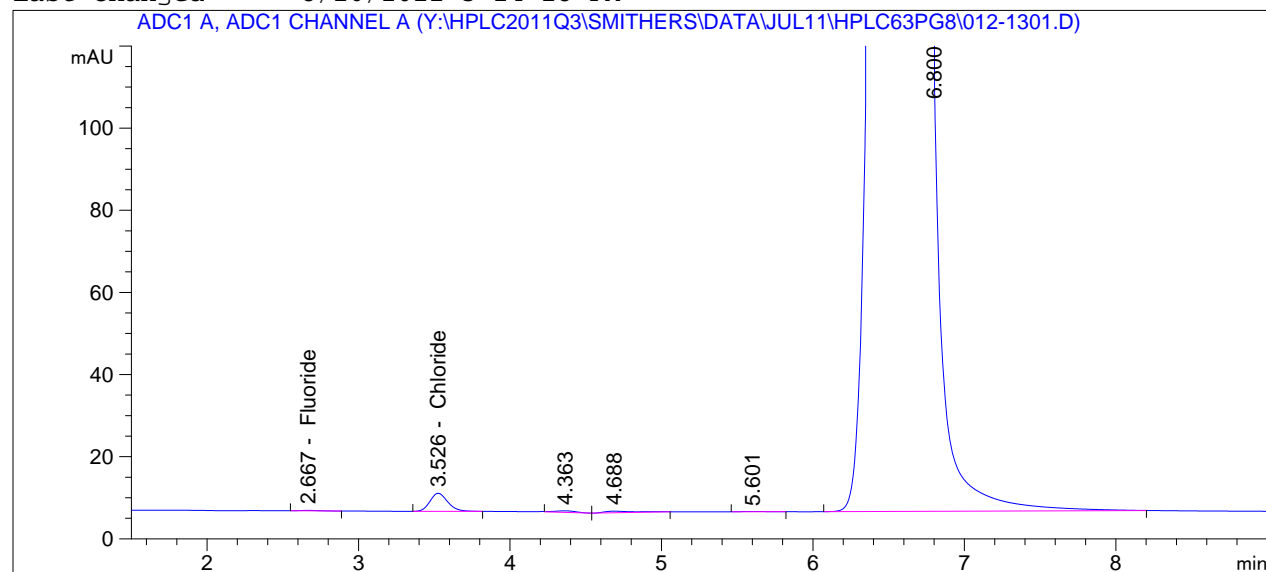
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.672	BB	9.26727e-1	1.56729e-2	1.45245e-2		Fluoride
3.528	BB	35.09555	2.59163e-2	9.09546e-1		Chloride

Totals : 9.24070e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   13
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 7:24:31 PM    Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

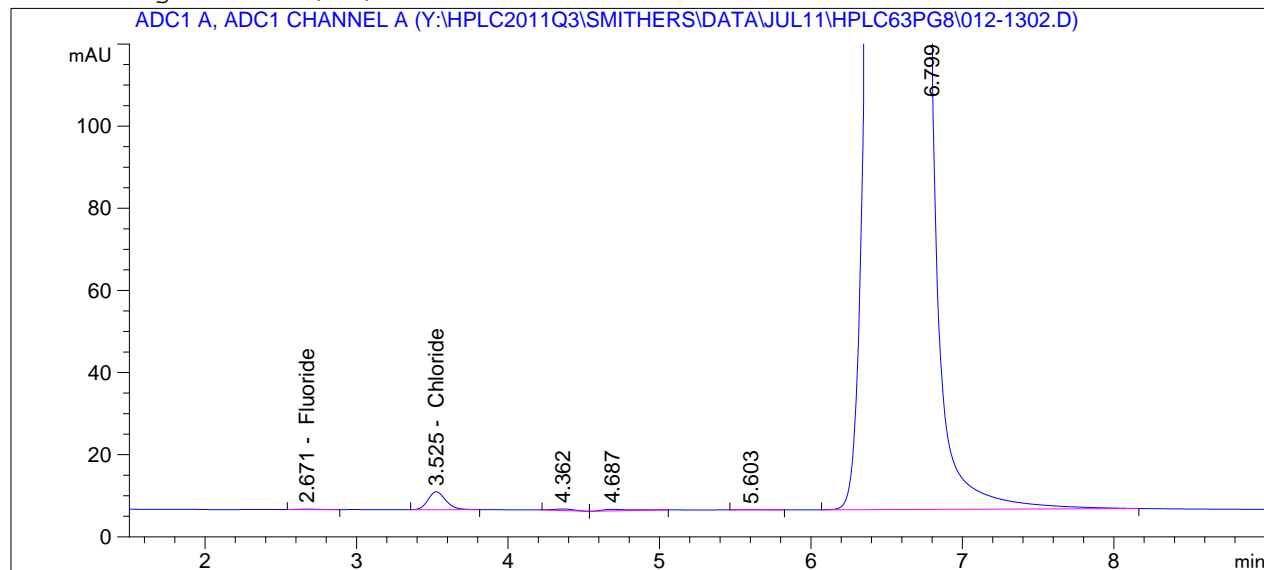
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.667	BB	8.99676e-1	1.56729e-2	1.41005e-2		Fluoride
3.526	BB	35.93797	2.58899e-2	9.30432e-1		Chloride

Totals : 9.44532e-1

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   13
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 7:35:47 PM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

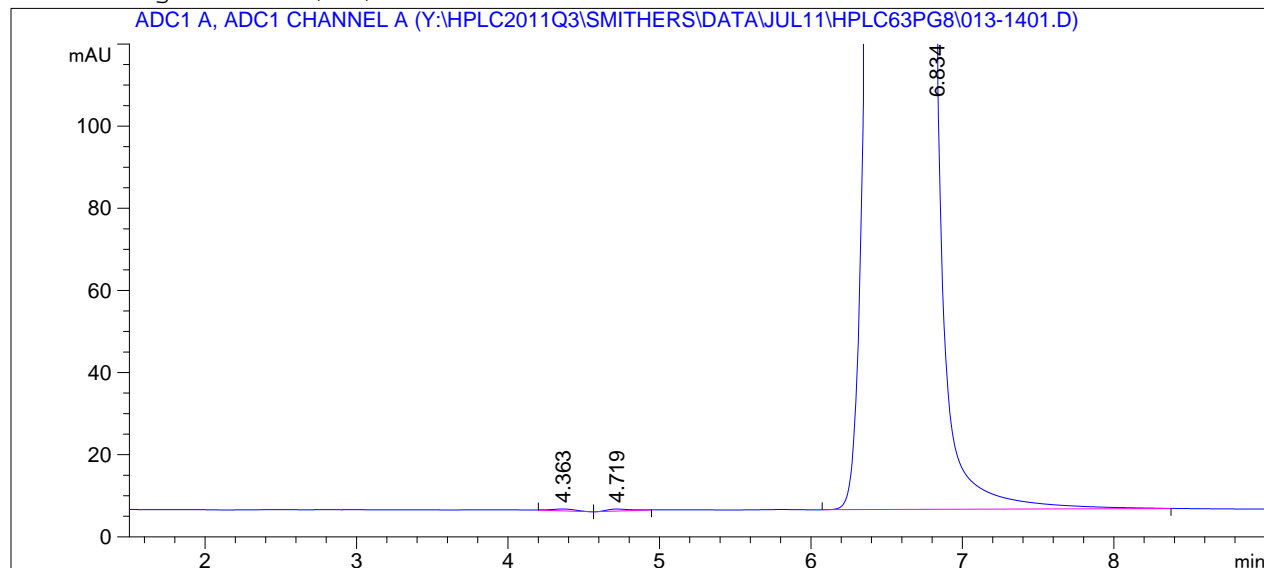
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.671	BB	9.14847e-1	1.56729e-2	1.43383e-2		Fluoride
3.525	BB	35.80262	2.58941e-2	9.27076e-1		Chloride

Totals : 9.41414e-1

*** End of Report ***

```
=====
Acq. Operator   : EO                               Seq. Line :   14
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 7:47:03 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

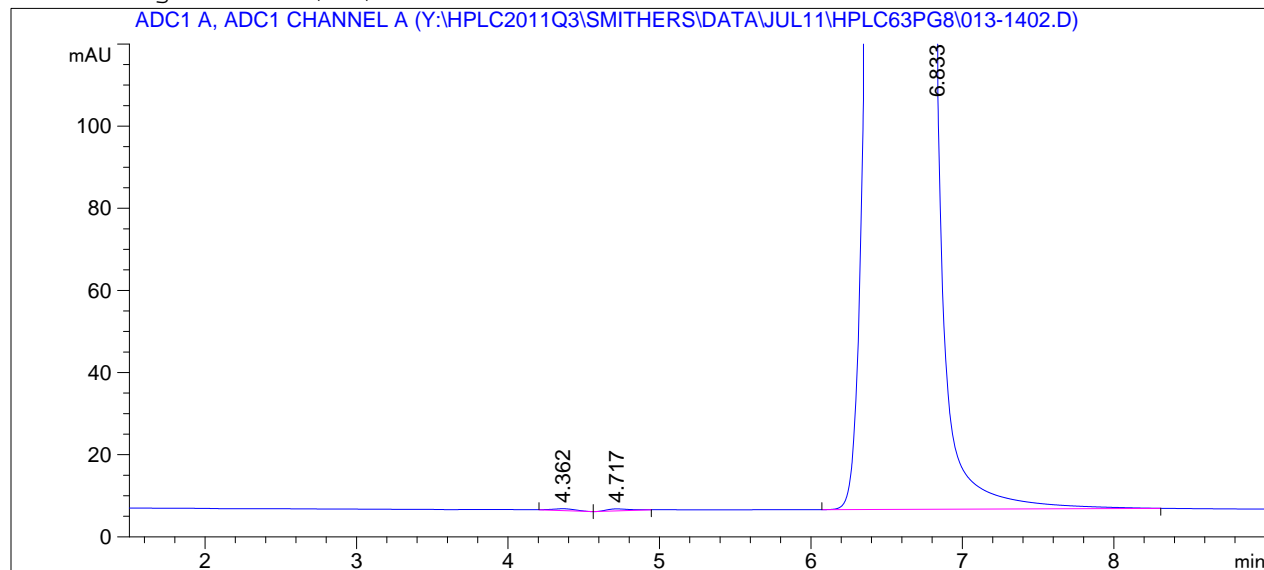
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Area Percent Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                      Seq. Line :   14
Acq. Instrument : Smithers                 Location  :    -
Injection Date  : 8/15/2011 7:58:19 PM      Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

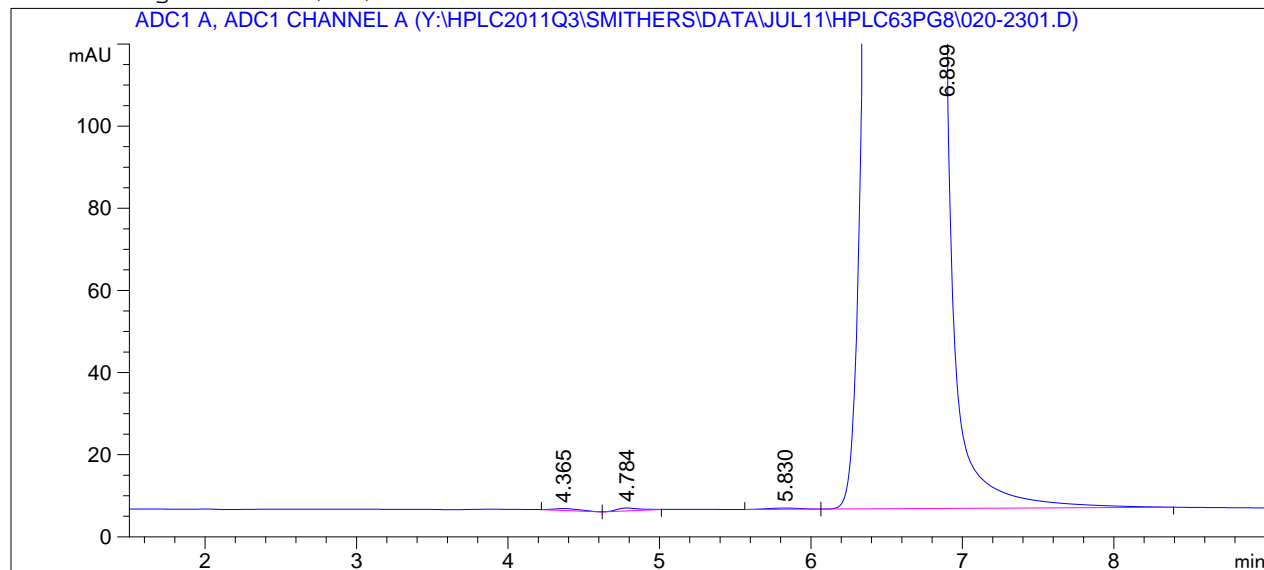
```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Pace Analytical
FSD 1108-200

FHR Pine Bend LLC
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```
=====
Acq. Operator   : EO                      Seq. Line :   23
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 12:16:11 AM    Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Tuesday, August 16, 2011 3:24:11 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

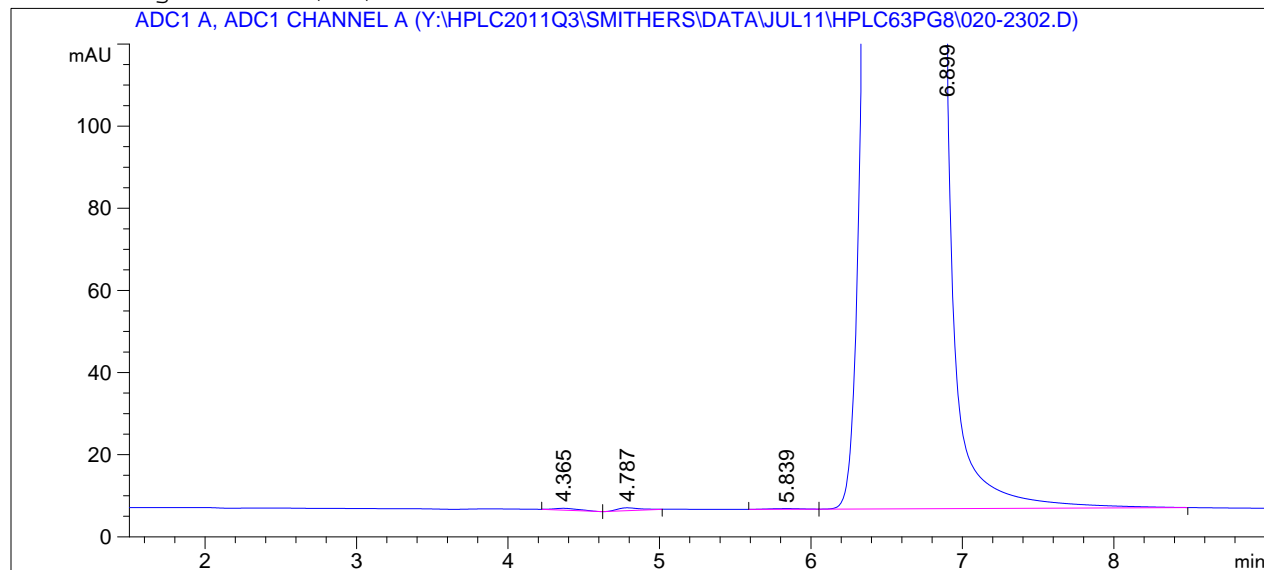
```
=====
                        Area Percent Report
=====
```

Sorted By : Signal
Calib. Data Modified : Tuesday, August 16, 2011 3:24:11 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

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```
=====
Acq. Operator   : EO                      Seq. Line :   23
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 12:27:27 AM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

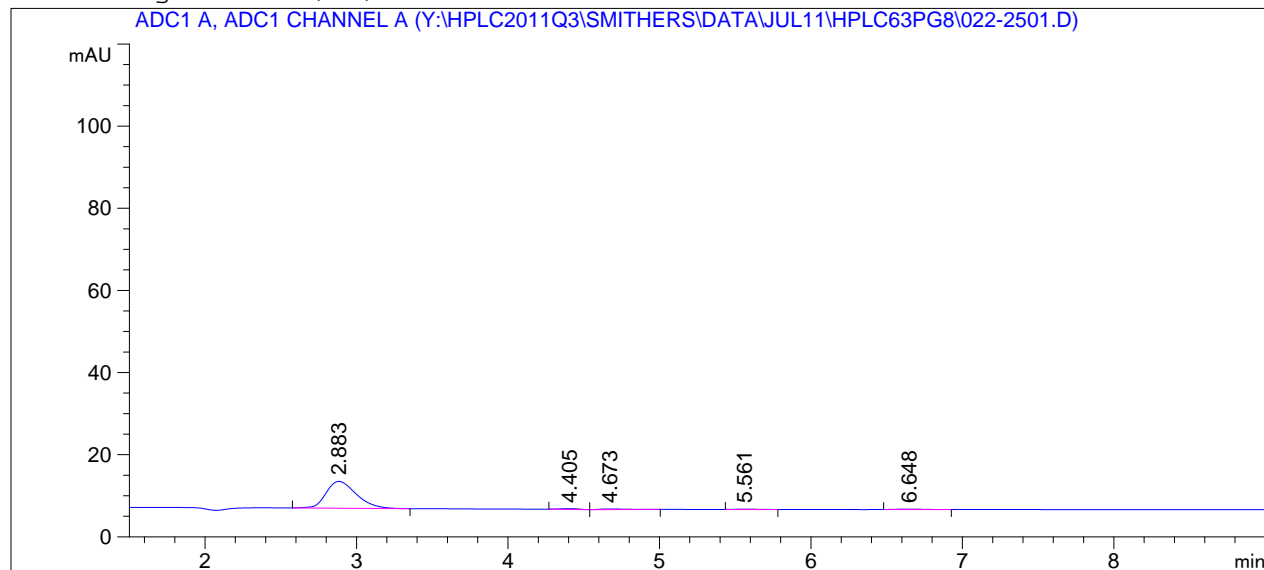
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Area Percent Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                               Seq. Line :   25
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/16/2011 1:12:19 AM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Tuesday, August 16, 2011 3:24:11 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

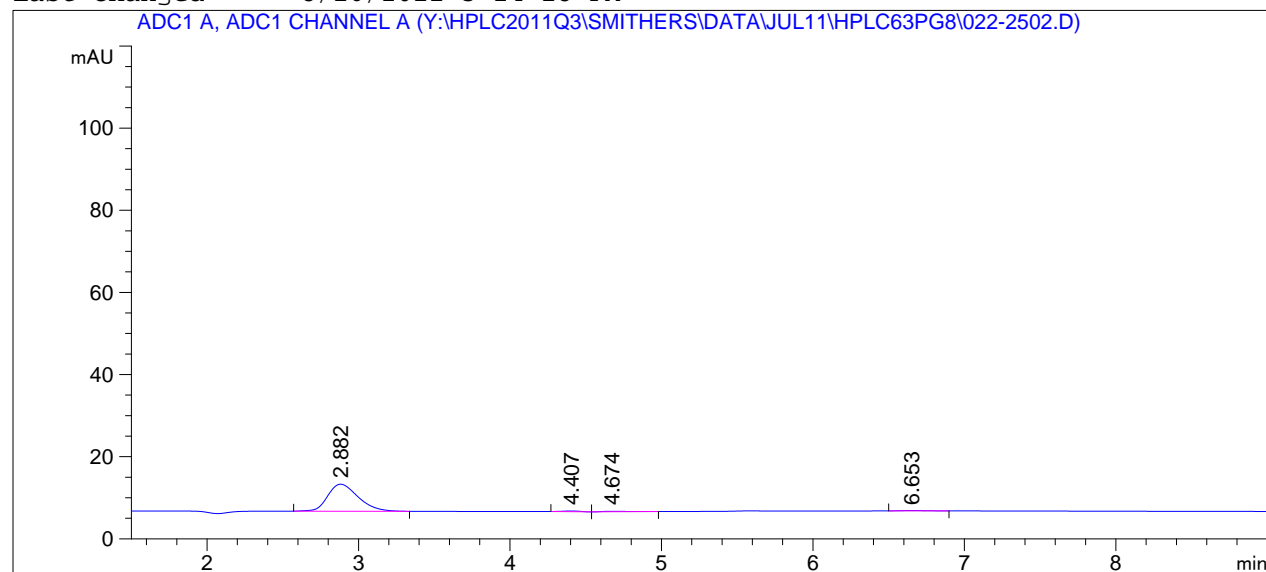
```
=====
                        Area Percent Report
=====
```

Sorted By : Signal
Calib. Data Modified : Tuesday, August 16, 2011 3:24:11 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Pace Analytical
FSD 1108-200

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```
=====
Acq. Operator   : EO                      Seq. Line :   25
Acq. Instrument : Smithers                 Location  :    -
Injection Date  : 8/16/2011 1:23:35 AM      Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

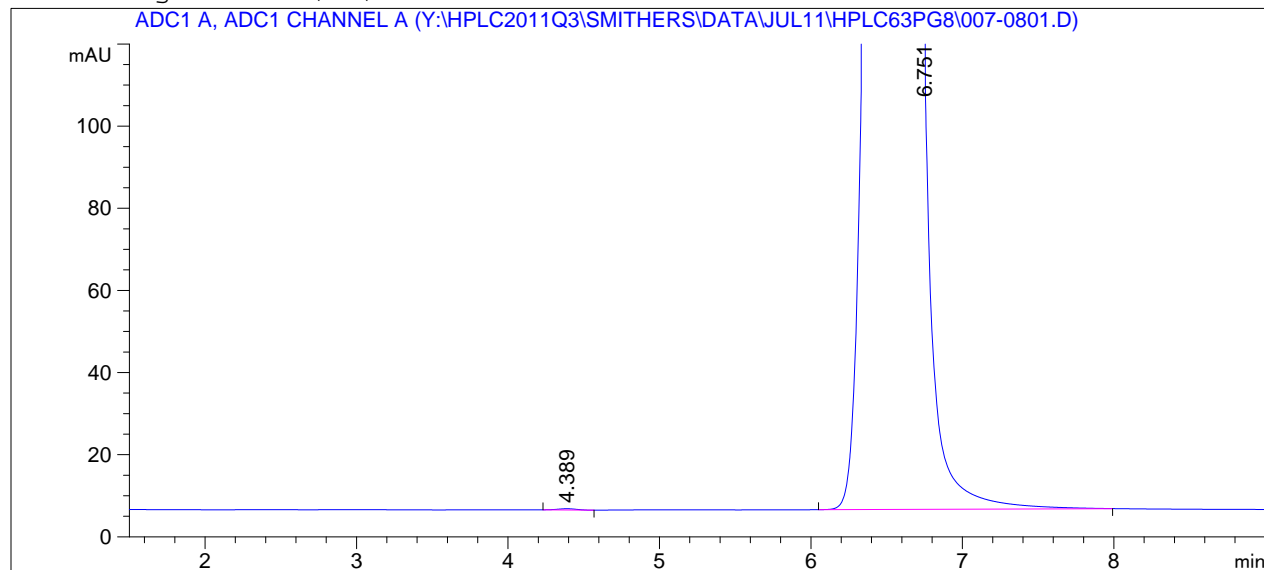
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                      Seq. Line :    8
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 5:31:49 PM    Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

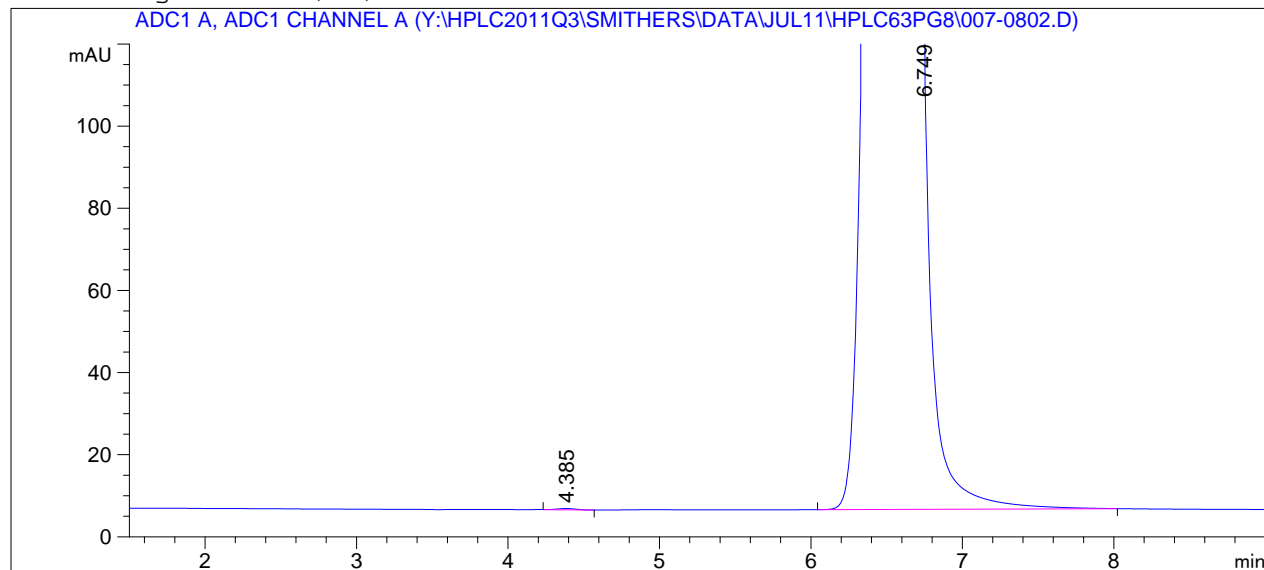
```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

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```
=====
Acq. Operator   : EO                      Seq. Line :    8
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 5:43:05 PM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	-	-	-	-	-	Fluoride
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

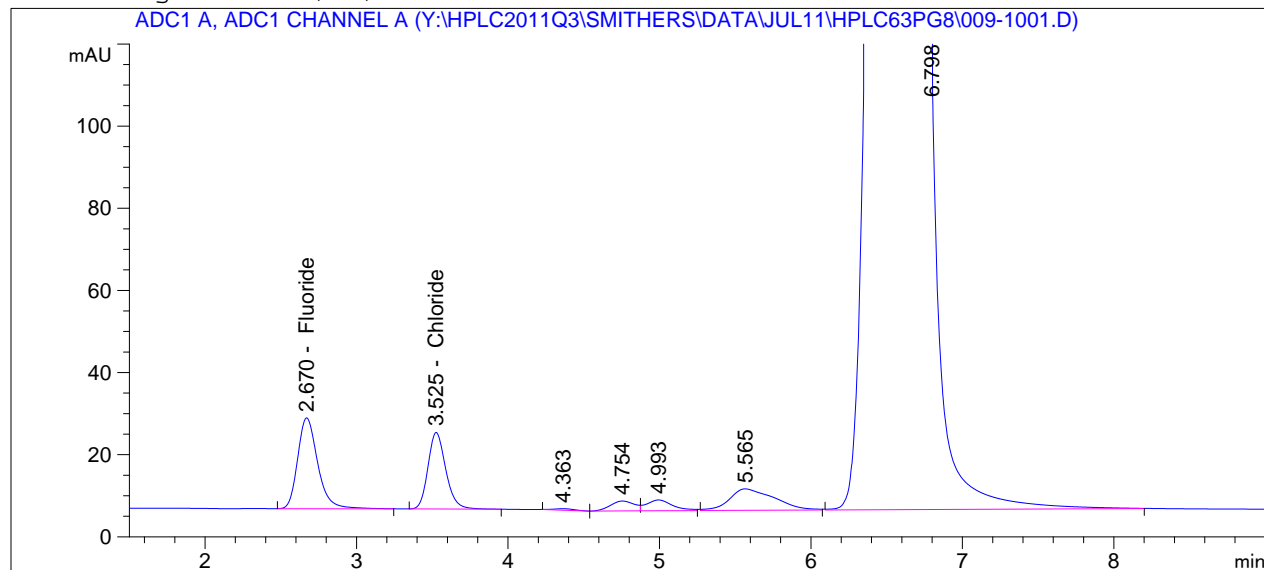
```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

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```
=====
Acq. Operator   : EO                               Seq. Line :   10
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 6:16:54 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Tuesday, August 16, 2011 3:24:11 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

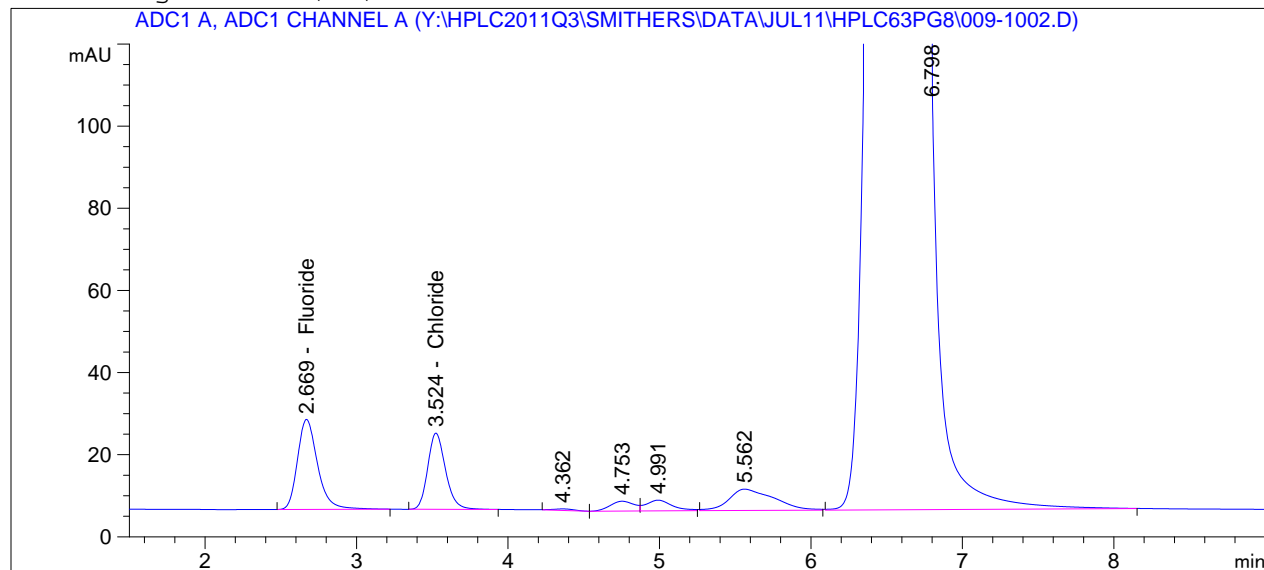
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.670	BB	203.38463	1.66922e-2	3.39493		Fluoride
3.525	BB	152.06441	2.50521e-2	3.80954		Chloride

Totals : 7.20447

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :   10
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 6:28:10 PM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

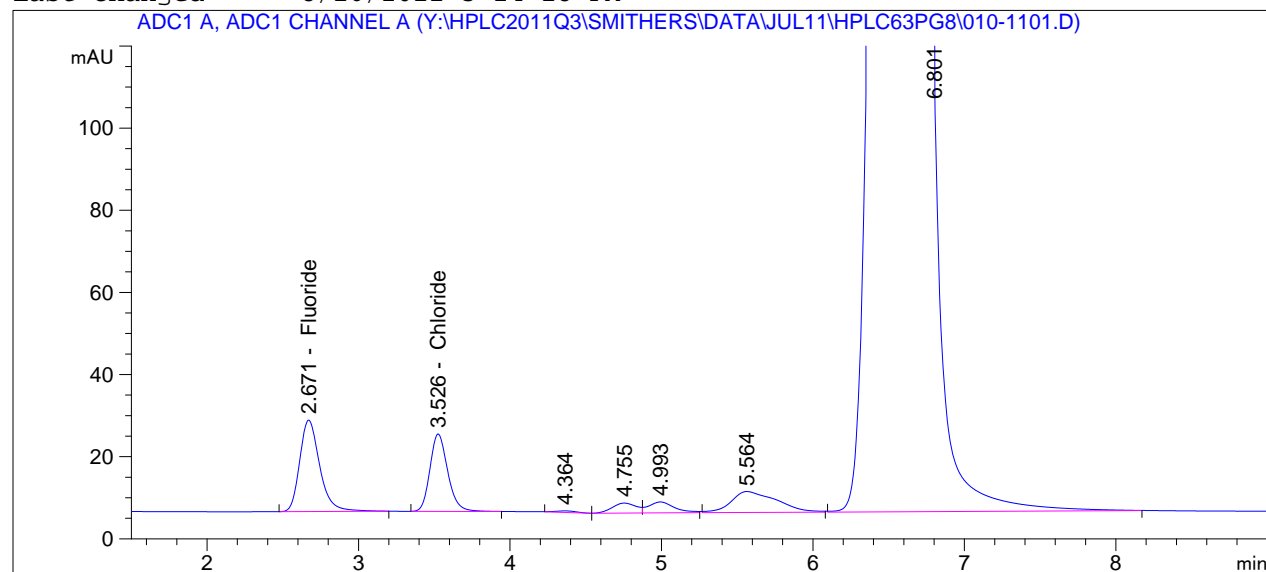
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.669	BB	202.29057	1.66918e-2	3.37660		Fluoride
3.524	BB	151.49280	2.50531e-2	3.79536		Chloride

Totals : 7.17196

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   11
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 6:39:26 PM    Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed     : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

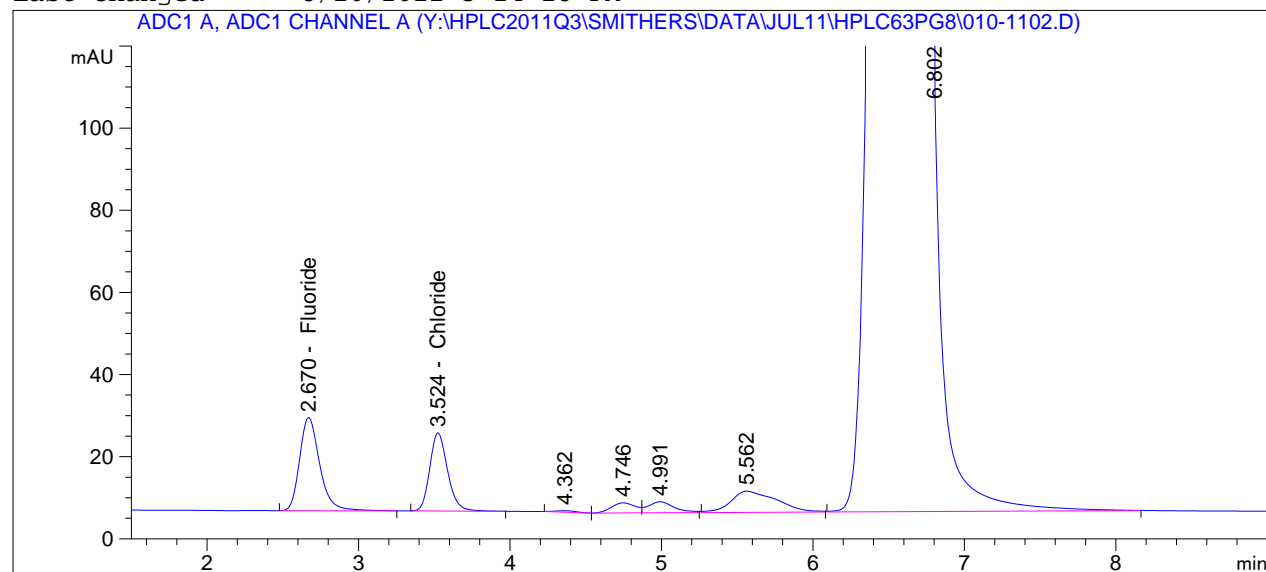
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.671	BB	204.69249	1.66926e-2	3.41685		Fluoride
3.526	BB	153.48805	2.50497e-2	3.84483		Chloride

Totals : 7.26168

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : EO                      Seq. Line :   11
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 6:50:41 PM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

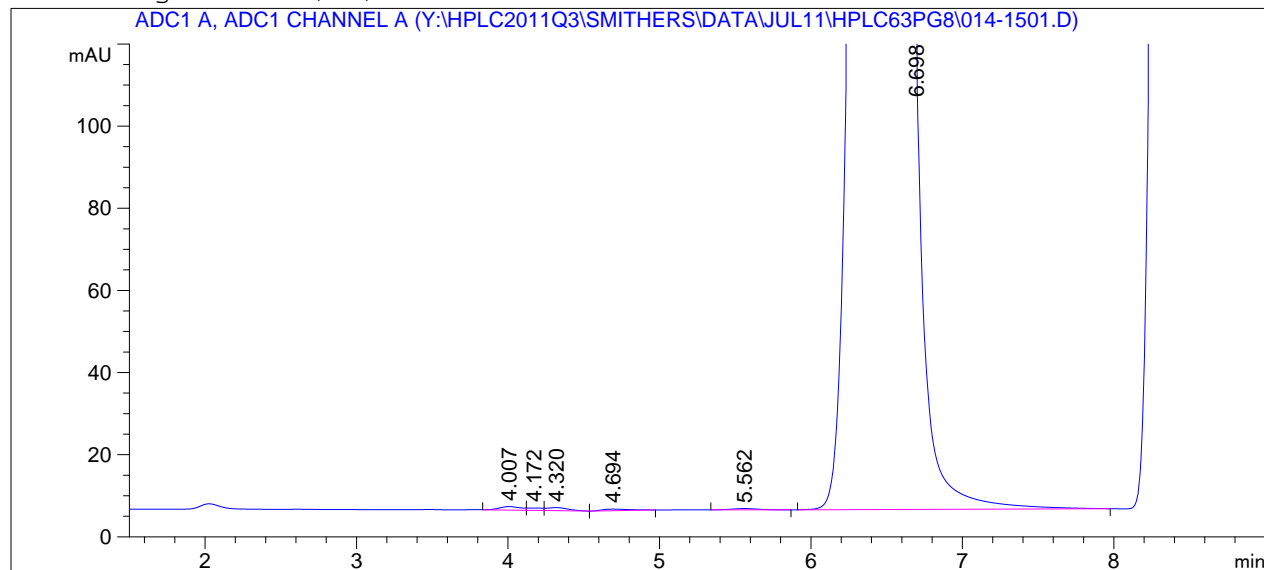
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.670	BB	208.73277	1.66939e-2	3.48457		Fluoride
3.524	BB	155.25116	2.50468e-2	3.88854		Chloride

Totals : 7.37311

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :   15
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 8:09:34 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

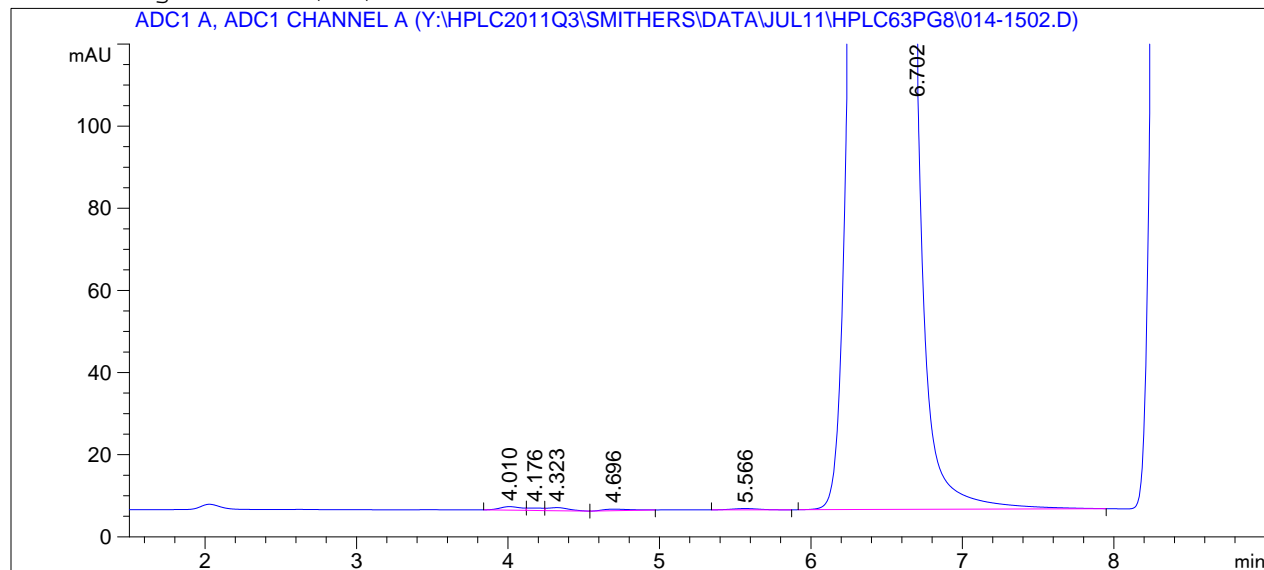
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Area Percent Report

```
Sorted By      :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                               Seq. Line :   15
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 8:26:22 PM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/16/2011 3:31:25 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

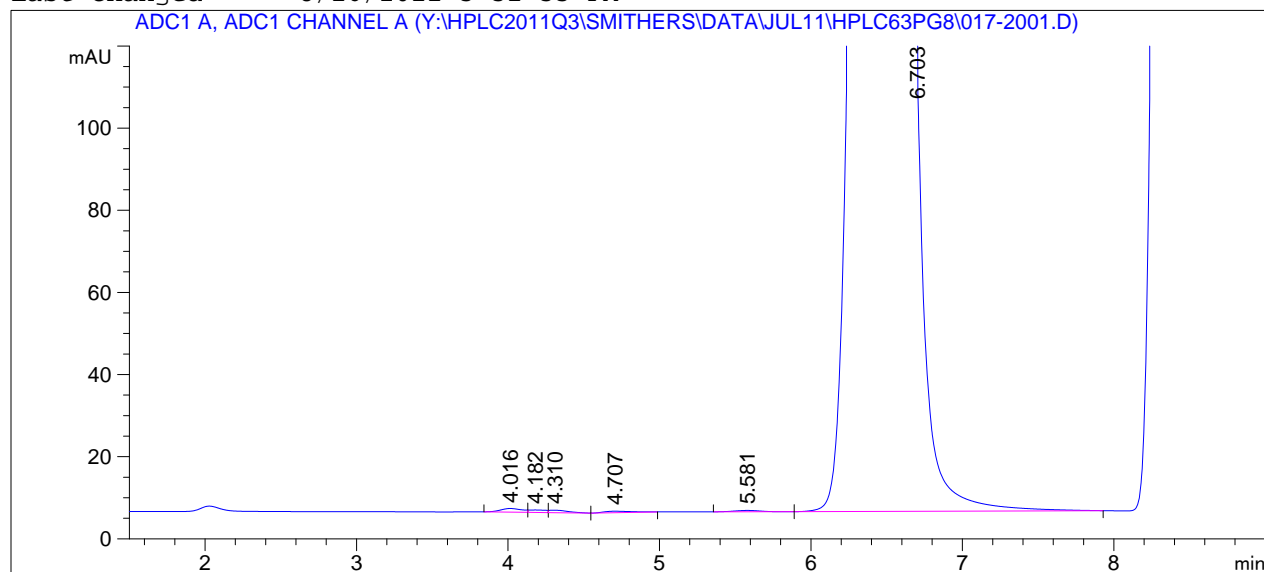
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/16/2011 3:31:25 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```
=====
Acq. Operator   : EO                               Seq. Line :   20
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 10:35:25 PM           Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

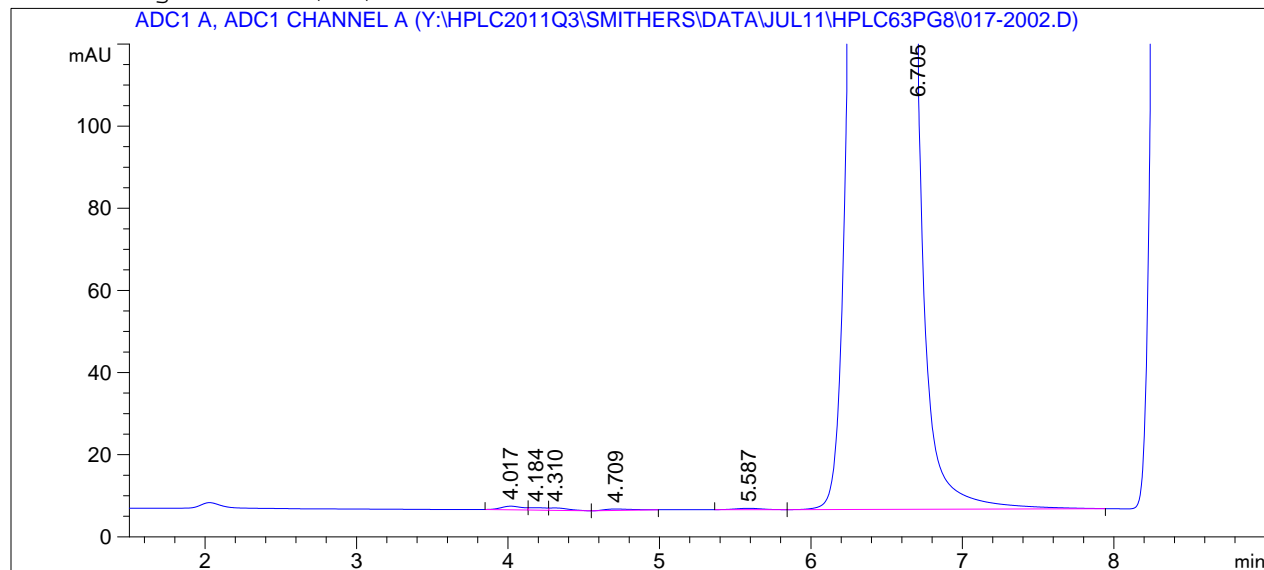
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                               Seq. Line :   20
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 10:52:13 PM           Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/16/2011 3:31:25 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

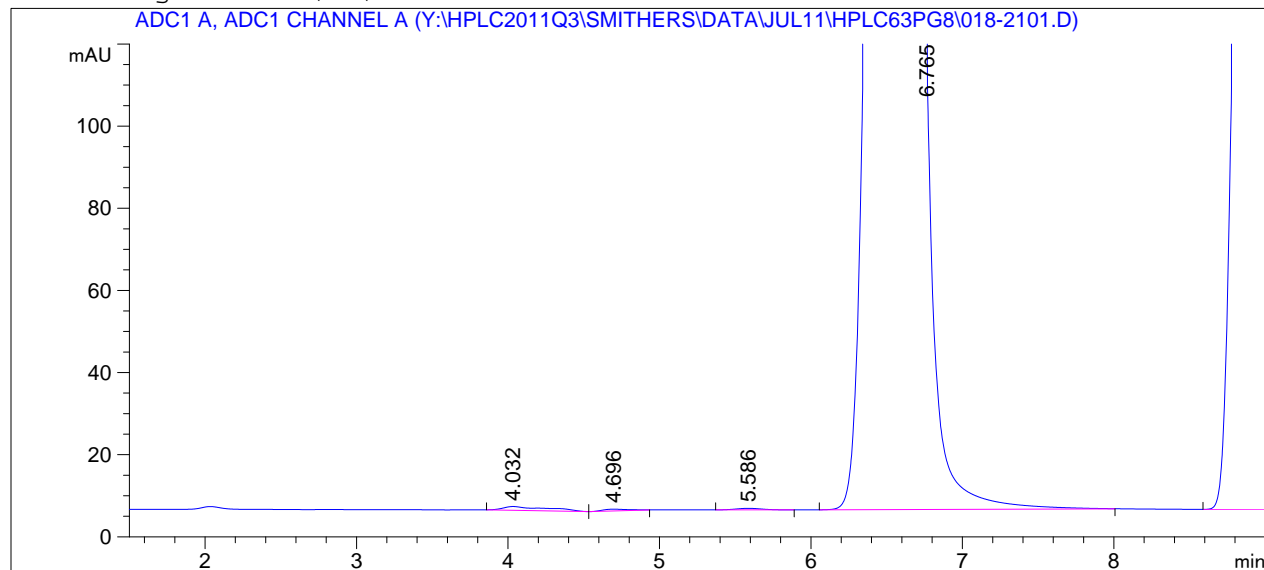
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/16/2011 3:31:25 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```
=====
Acq. Operator   : EO                      Seq. Line :   21
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 11:09:01 PM   Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

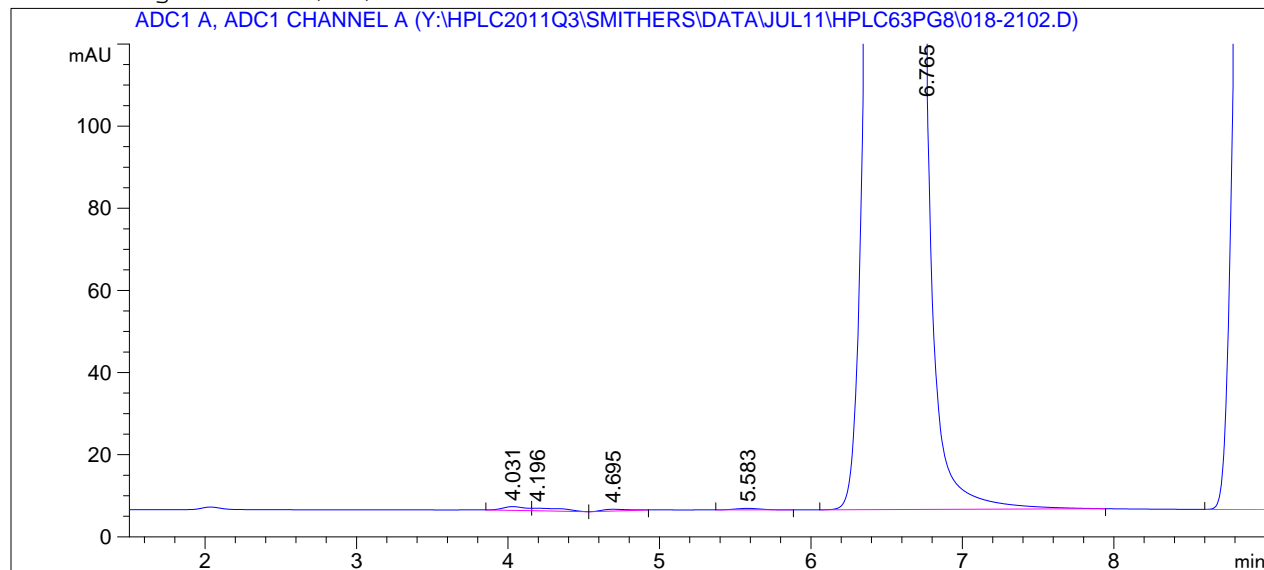
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                               Seq. Line :   21
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 11:25:48 PM           Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/16/2011 3:31:25 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

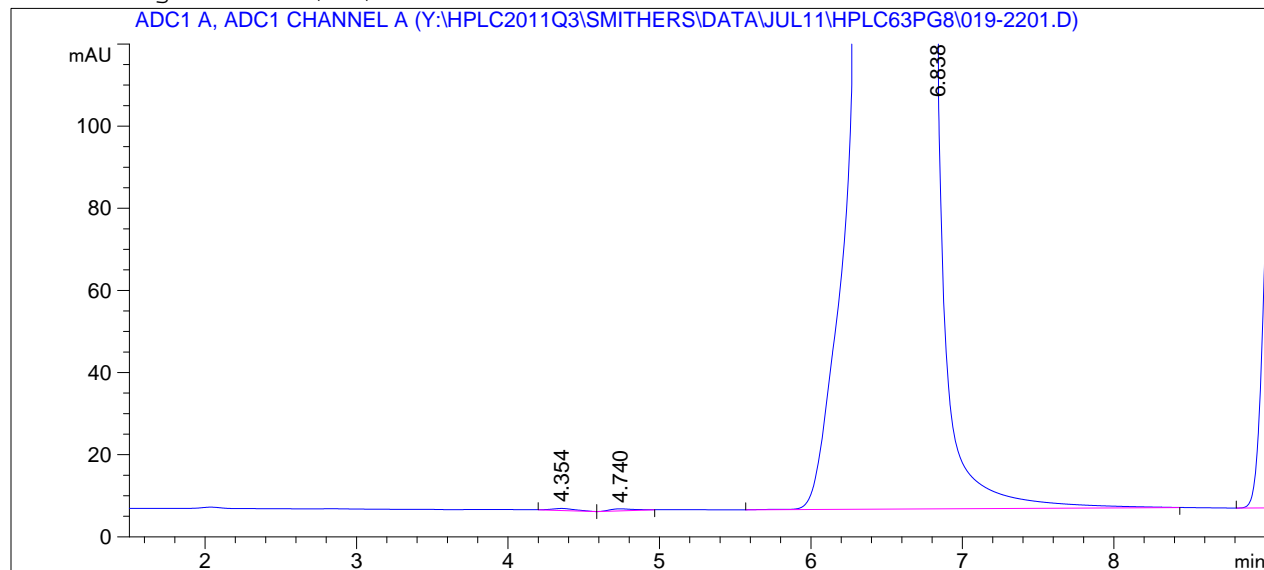
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/16/2011 3:31:25 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```
=====
Acq. Operator   : EO                      Seq. Line :   22
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 11:42:36 PM   Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

1 Warnings or Errors :

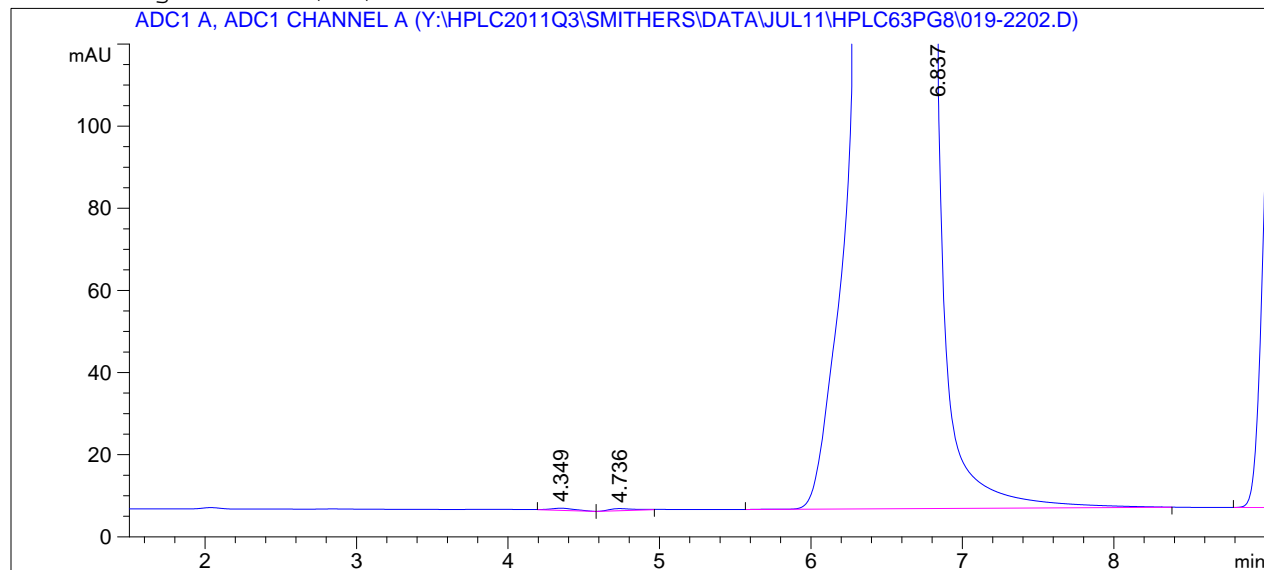
Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```



```
=====
Acq. Operator   : EO                      Seq. Line :   22
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 11:59:24 PM   Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

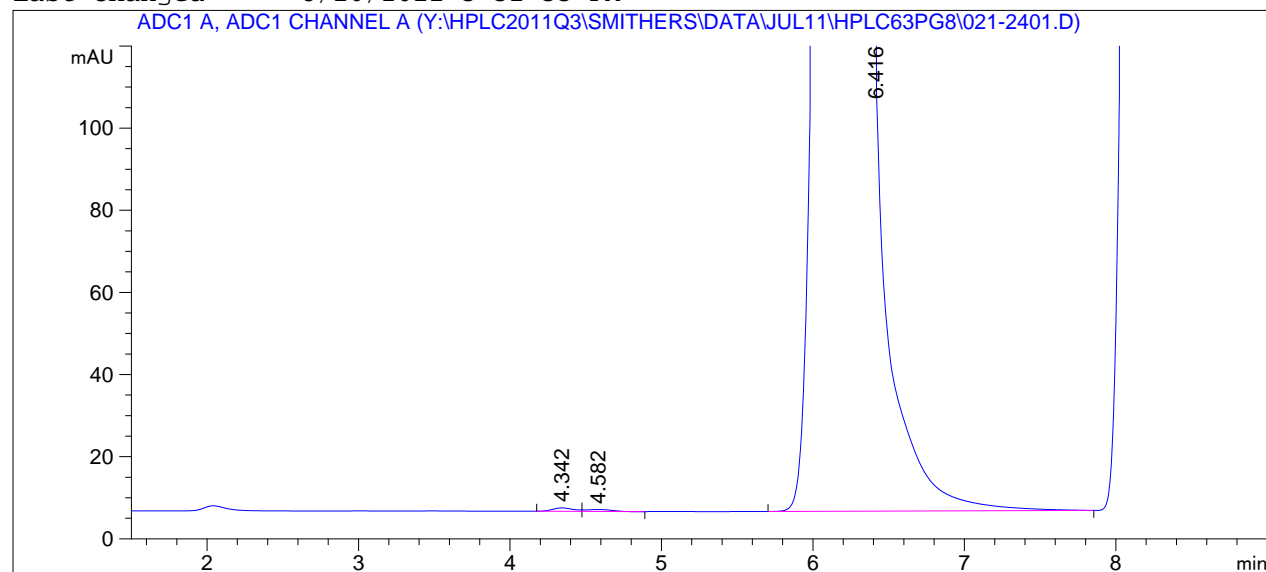
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                      Seq. Line :   24
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 12:38:44 AM    Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method  : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed     : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

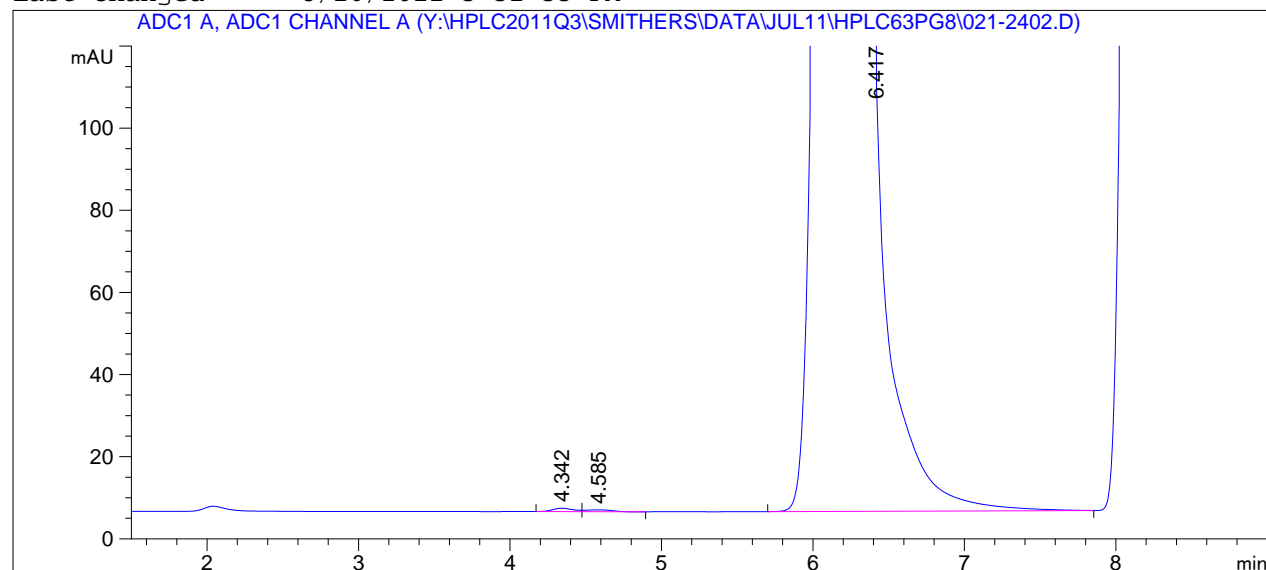
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                      Seq. Line :   24
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 12:55:31 AM   Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.537	-	-	-	-	-	Chloride

Totals : 0.00000

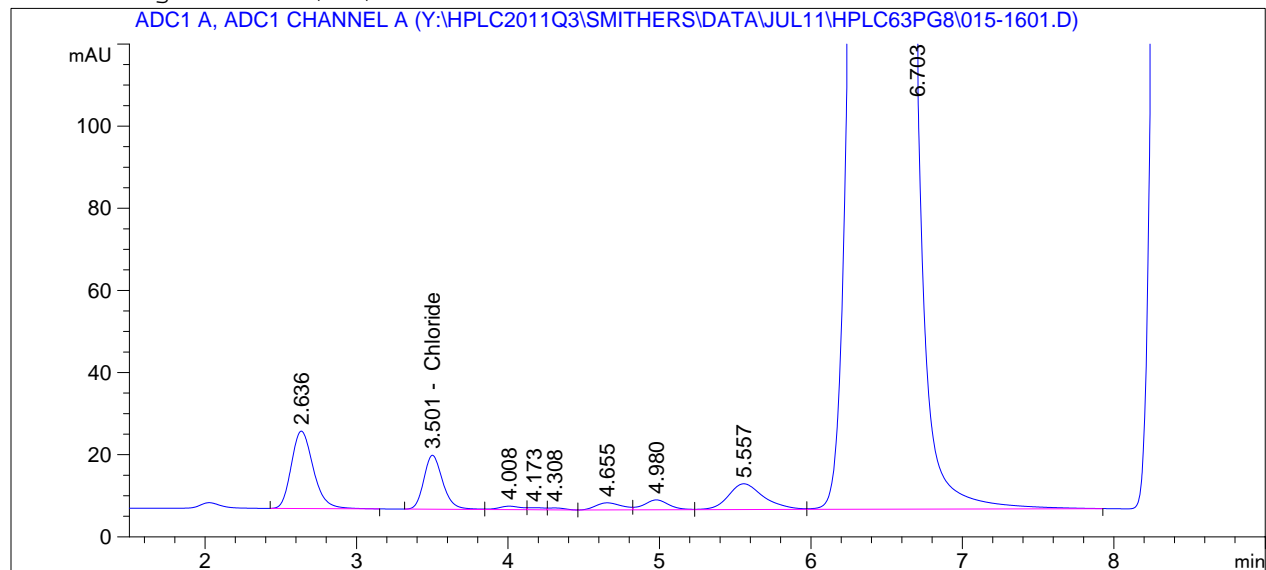
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

```
=====
Acq. Operator   : EO                               Seq. Line :   16
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 8:43:09 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

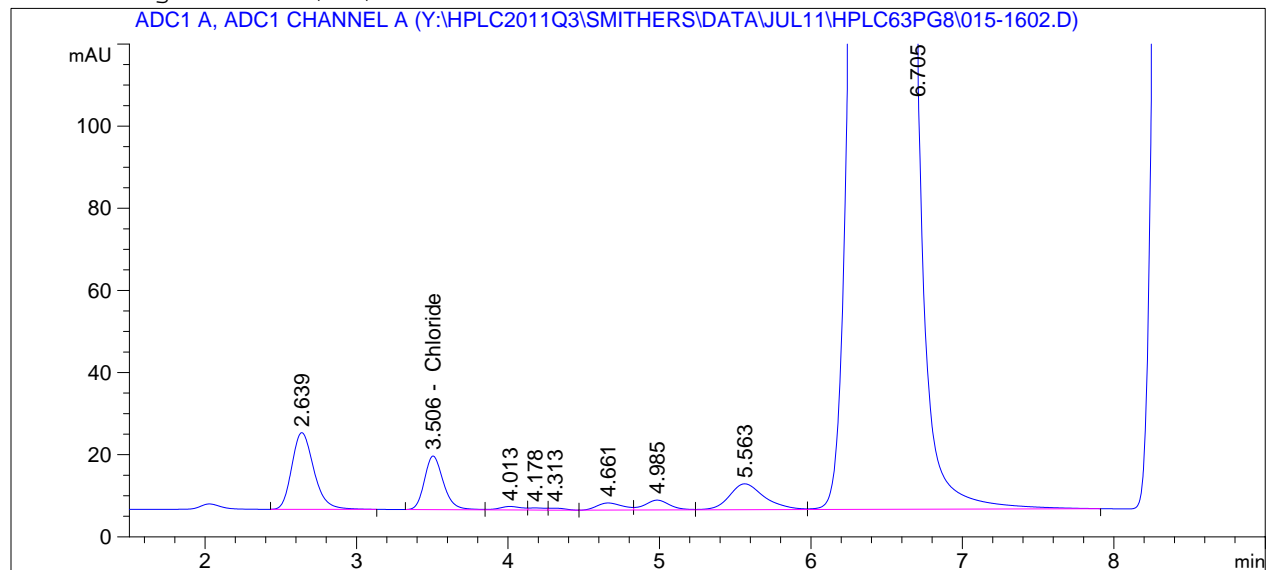
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.501	BB	113.49277	2.51402e-2	2.85324		Chloride

Totals : 2.85324

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :   16
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 8:59:58 PM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

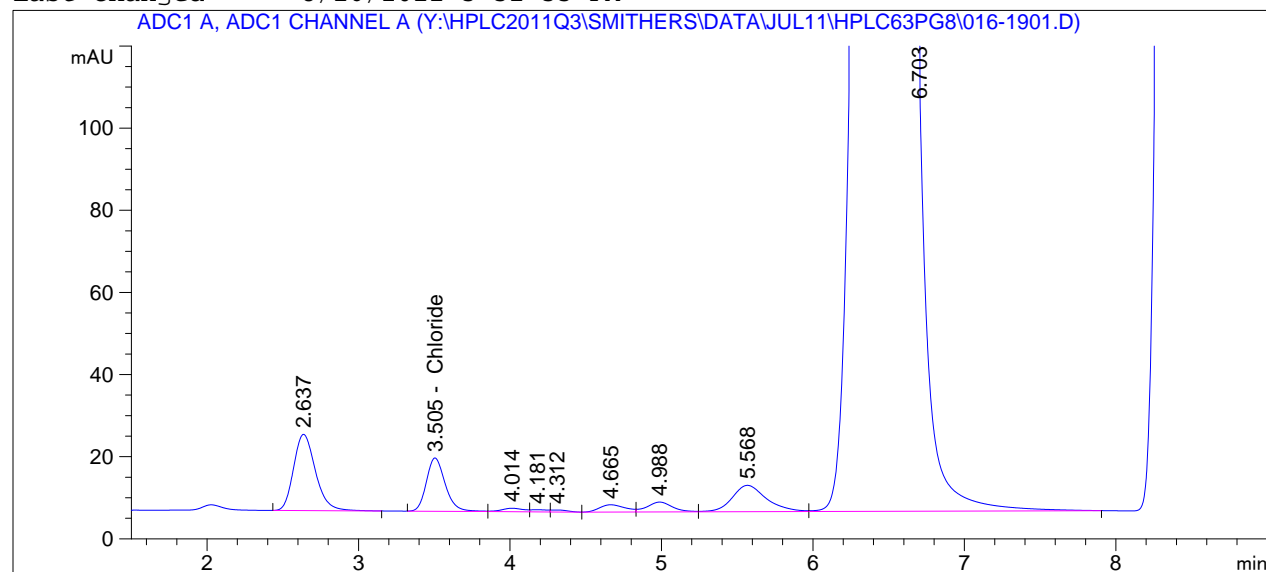
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.506	BB	113.04539	2.51416e-2	2.84214		Chloride

Totals : 2.84214

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :   19
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 10:01:49 PM           Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

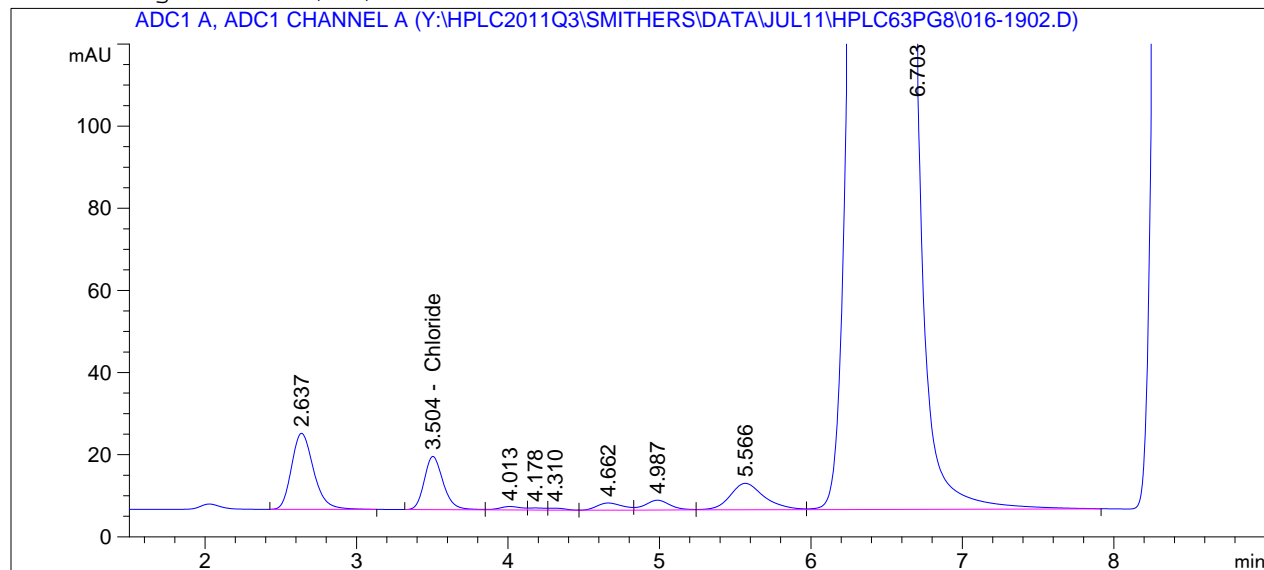
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.505	BB	112.03980	2.51447e-2	2.81721		Chloride

Totals : 2.81721

```
=====
                        *** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :   19
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 10:18:38 PM           Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8CL.M
Last changed    : 8/16/2011 3:31:33 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/16/2011 3:31:25 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.504	BB	112.29218	2.51440e-2	2.82347		Chloride

Totals : 2.82347

```
=====
*** End of Report ***
=====
```

Calibration Curve Chromatograms

=====

Calibration Table

=====

Calib. Data Modified : 8/16/2011 3:31:25 PM

Rel. Reference Window : 10.000 %
 Abs. Reference Window : 0.000 min
 Rel. Non-ref. Window : 10.000 %
 Abs. Non-ref. Window : 0.000 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Linear (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
3.537	1	2.00000e-1	6.91196	2.89354e-2	Chloride
	2	1.00000	36.90529	2.70964e-2	
	3	5.00000	197.19338	2.53558e-2	
	4	10.00000	400.34715	2.49783e-2	
	5	15.00000	609.11885	2.46257e-2	

=====

Peak Sum Table

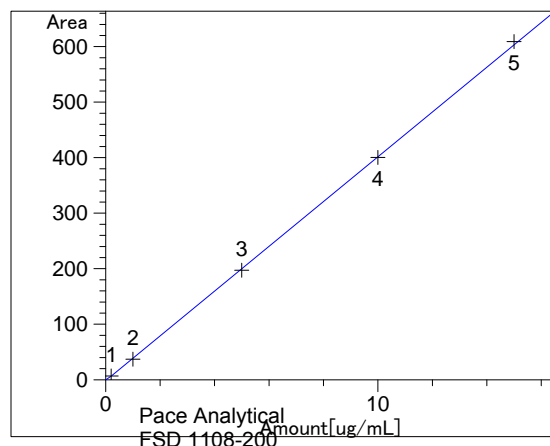
=====

No Entries in table

=====

Calibration Curves

=====



Chloride at exp. RT: 3.537
 ADC1 A, ADC1 CHANNEL A
 Correlation: 0.99991
 Residual Std. Dev.: 3.92947
 Formula: $y = mx + b$
 m: 40.33423
 b: -1.59028
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.2
 Level 3 : 0.04
 Level 4 : 0.02

Level 5 : 0.013333

```

=====
                        Calibration Table
=====

```

Calib. Data Modified : Tuesday, August 16, 2011 3:24:11 PM

Rel. Reference Window : 10.000 %
 Abs. Reference Window : 0.000 min
 Rel. Non-ref. Window : 10.000 %
 Abs. Non-ref. Window : 0.000 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Linear (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: ADC1 A, ADC1 CHANNEL A

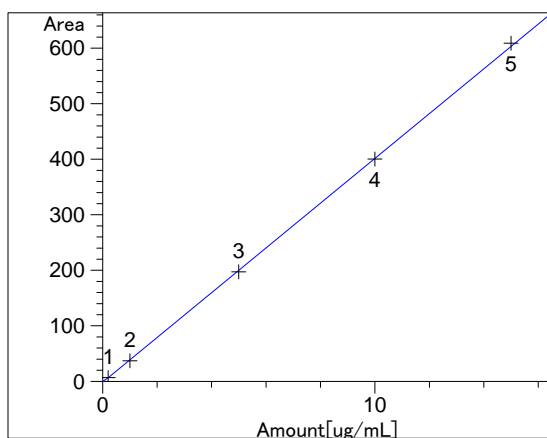
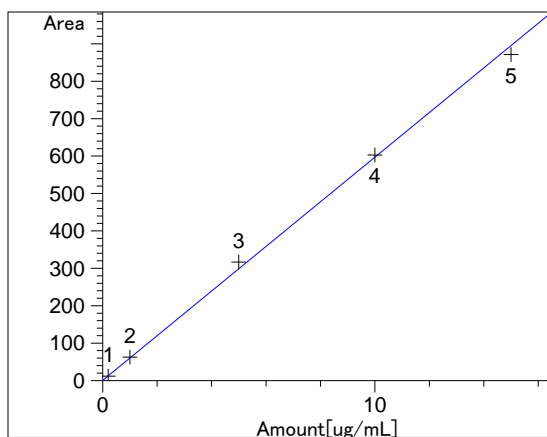
RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
2.692	1 1	2.00000e-1	11.84588	1.68835e-2	Fluoride
	2	1.00000	62.61964	1.59694e-2	
	3	5.00000	316.73998	1.57858e-2	
	4	10.00000	602.97591	1.65844e-2	
	5	15.00000	871.48817	1.72119e-2	
3.537	1 1	2.00000e-1	6.91196	2.89354e-2	Chloride
	2	1.00000	36.90529	2.70964e-2	
	3	5.00000	197.19338	2.53558e-2	
	4	10.00000	400.34715	2.49783e-2	
	5	15.00000	609.11885	2.46257e-2	

```

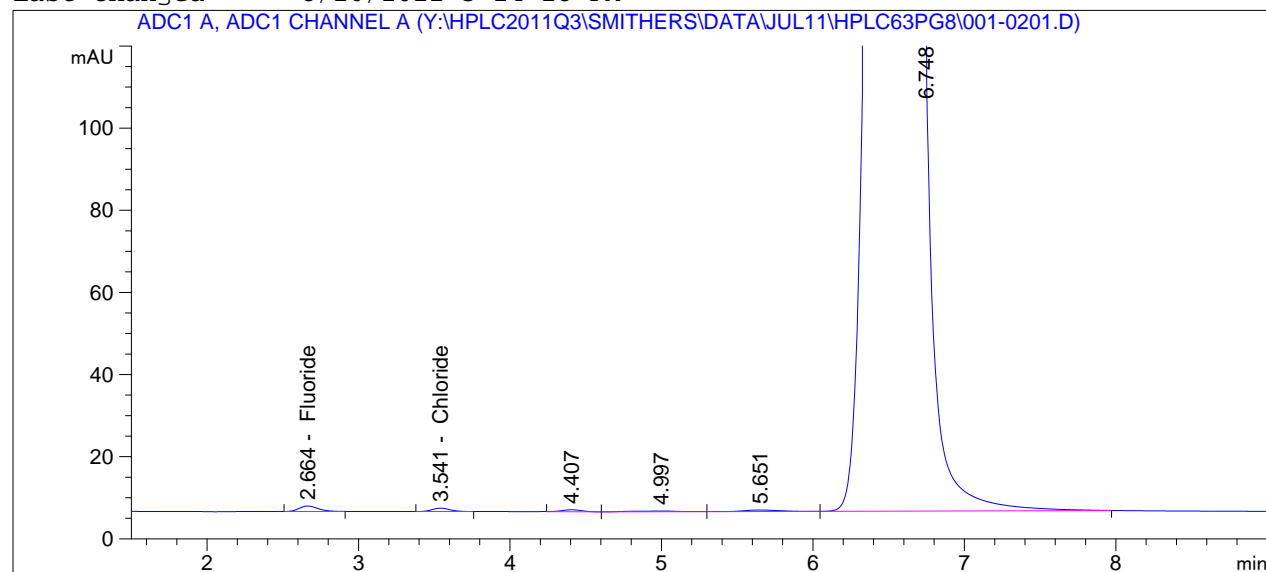
=====
                        Peak Sum Table
=====

```

No Entries in table

=====
Calibration Curves
=====

```
=====
Acq. Operator   : EO                      Seq. Line :    2
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 3:16:35 PM      Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed     : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

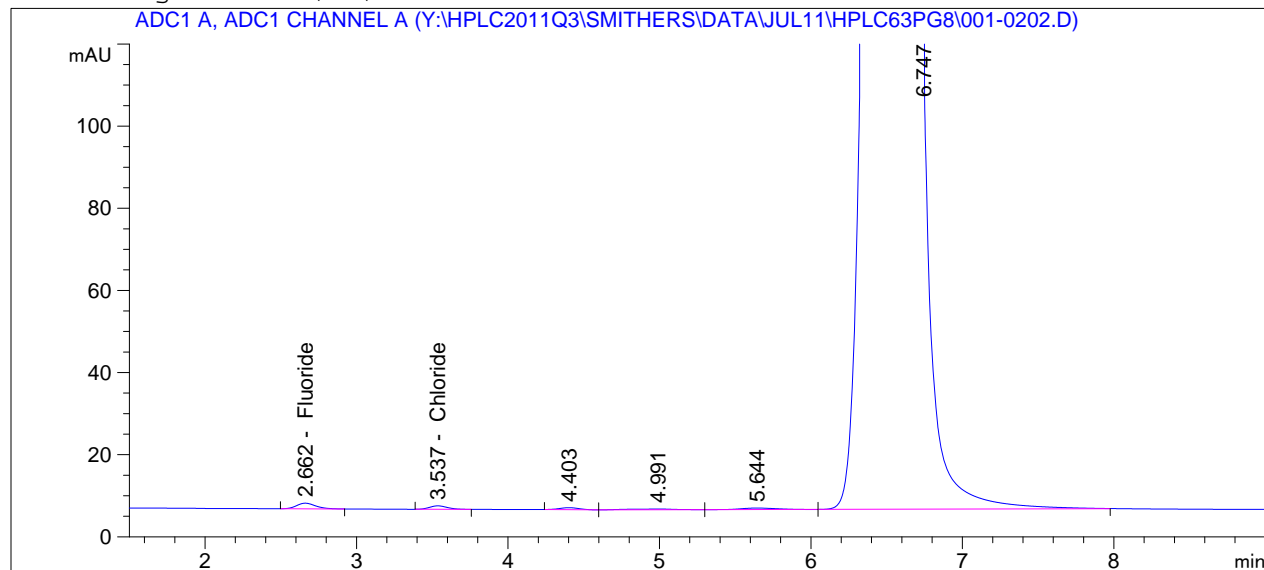
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.664	BB	11.75711	1.56729e-2	1.84268e-1		Fluoride
3.541	BB	6.88671	3.05180e-2	2.10169e-1		Chloride

Totals : 3.94436e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :    2
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 3:27:52 PM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

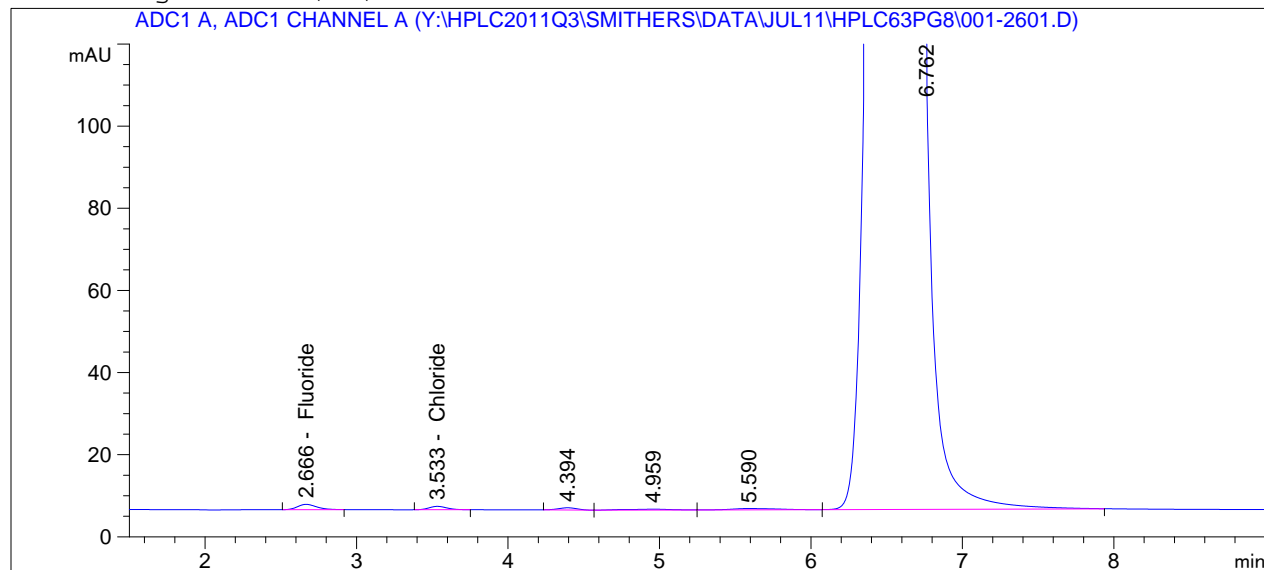
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.662	BB	12.00811	1.56729e-2	1.88201e-1		Fluoride
3.537	BB	6.94227	3.04722e-2	2.11546e-1		Chloride

Totals : 3.99747e-1

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   26
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 1:34:51 AM      Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed     : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

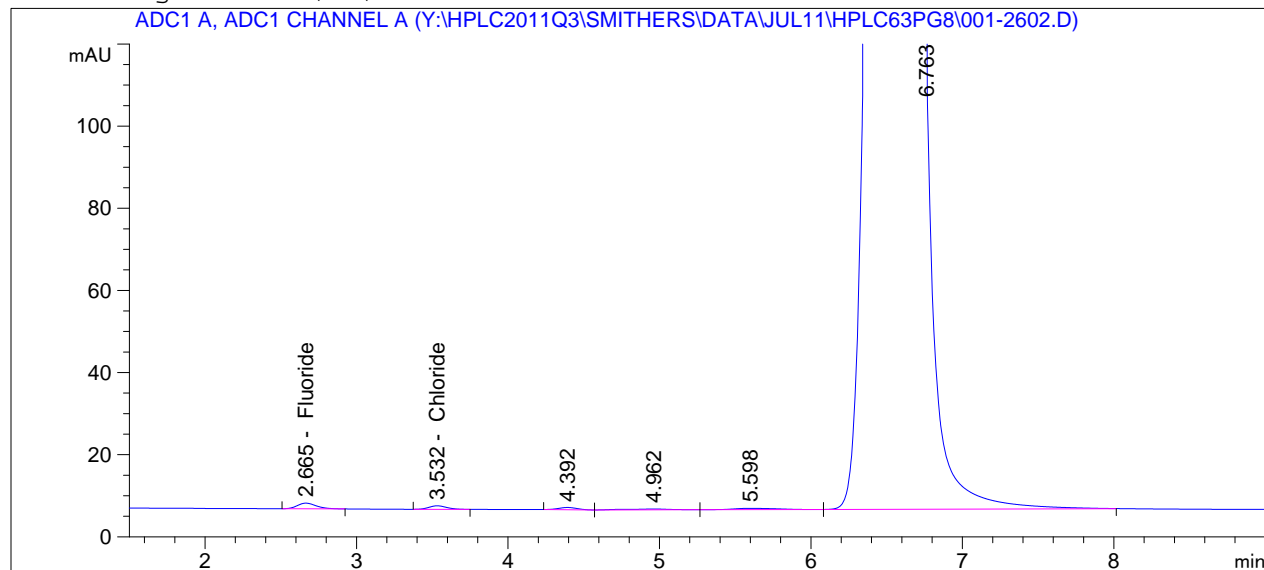
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.666	BB	11.49556	1.56729e-2	1.80168e-1		Fluoride
3.533	BB	6.80296	3.05885e-2	2.08092e-1		Chloride

Totals : 3.88260e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   26
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 1:46:07 AM      Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

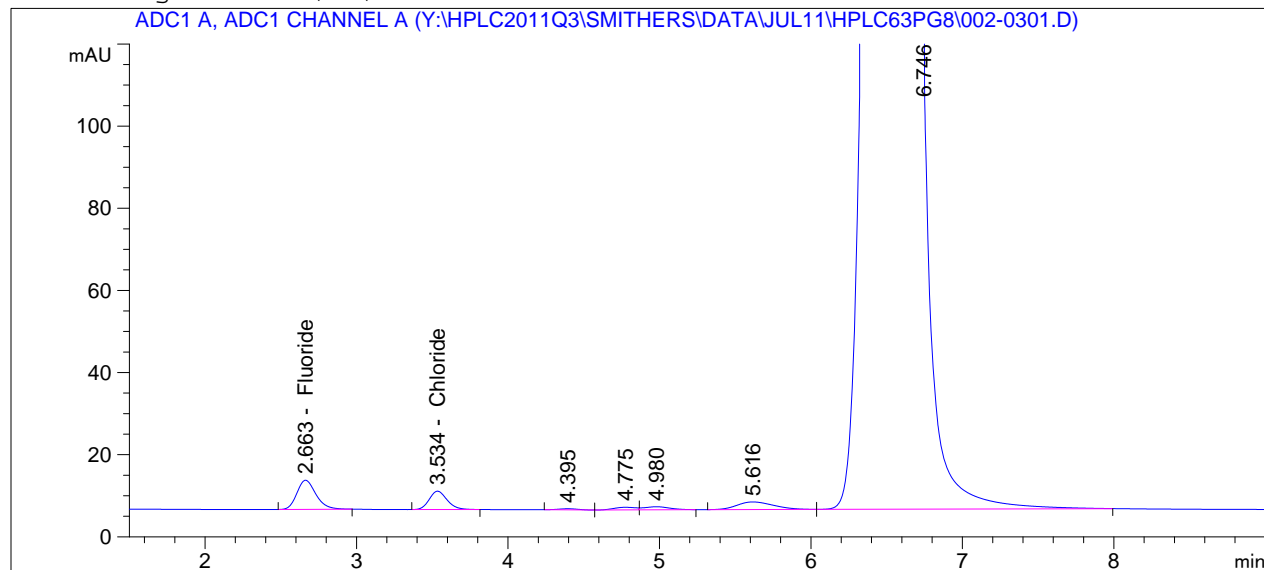
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.665	BB	12.12273	1.56729e-2	1.89998e-1		Fluoride
3.532	BB	7.01589	3.04126e-2	2.13371e-1		Chloride

Totals : 4.03369e-1

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : EO                      Seq. Line :    3
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 3:39:07 PM      Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

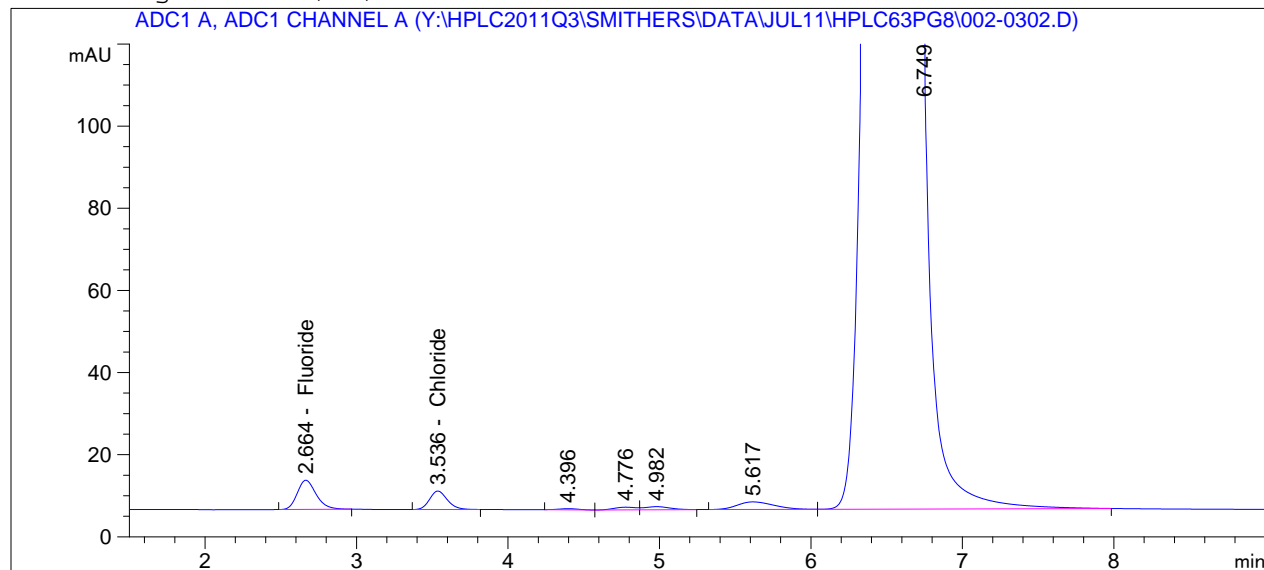
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.663	BB	61.89742	1.65362e-2	1.02355		Fluoride
3.534	BB	36.87478	2.58621e-2	9.53658e-1		Chloride

Totals : 1.97721

*** End of Report ***

```
=====
Acq. Operator   : EO                               Seq. Line :    3
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 3:50:24 PM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

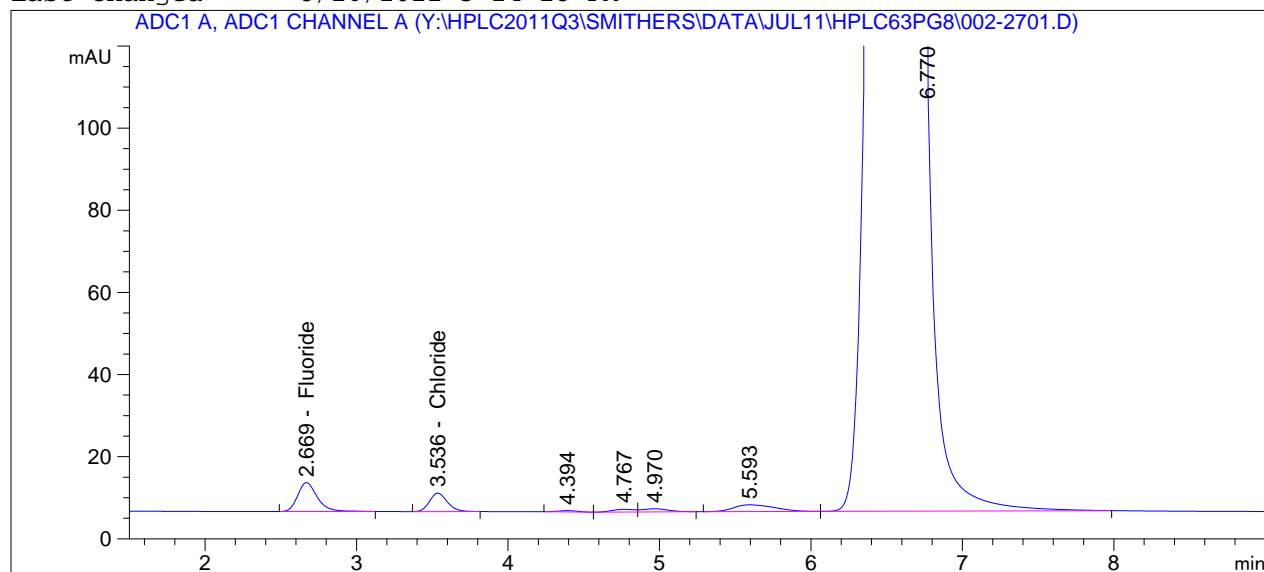
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.664	BB	61.67530	1.65354e-2	1.01983		Fluoride
3.536	BB	36.93197	2.58604e-2	9.55076e-1		Chloride

Totals : 1.97490

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   27
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 1:57:23 AM      Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

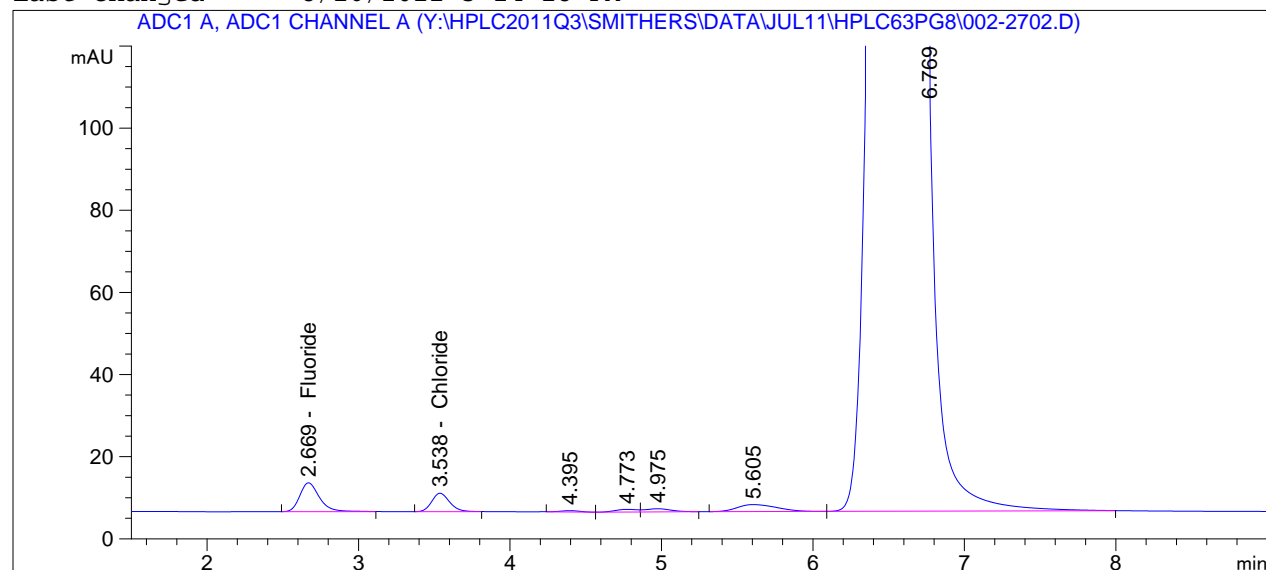
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.669	BB	63.57038	1.65421e-2	1.05159		Fluoride
3.536	BB	36.95866	2.58596e-2	9.55738e-1		Chloride

Totals : 2.00733

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :   27
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/16/2011 2:08:40 AM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

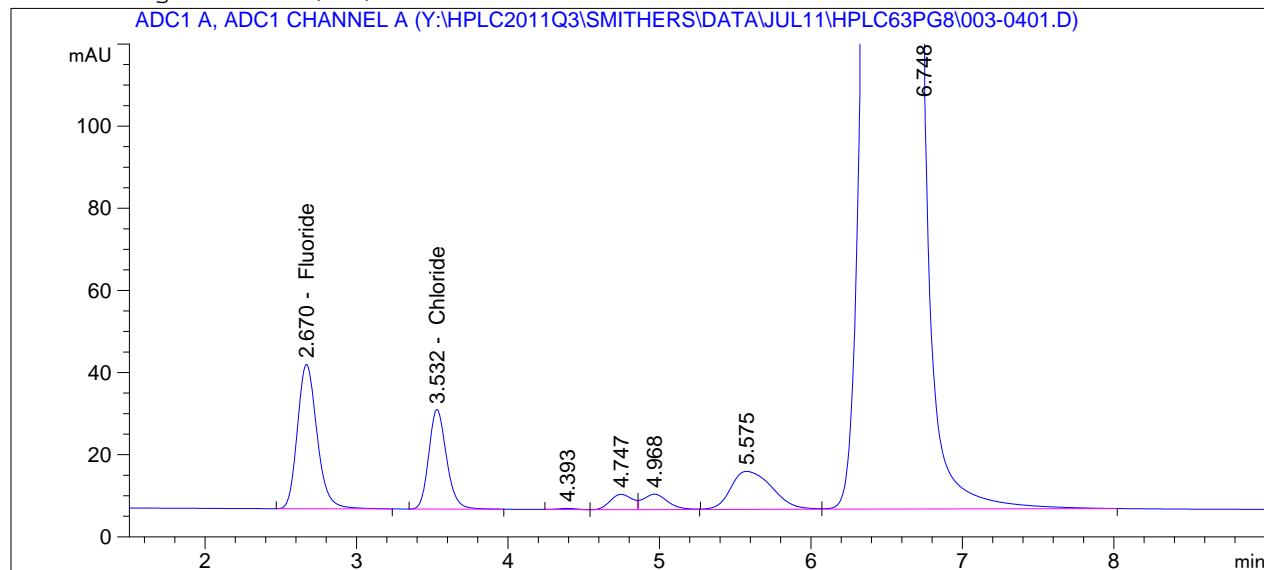
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.669	BB	63.33546	1.65413e-2	1.04765		Fluoride
3.538	BB	36.85574	2.58626e-2	9.53186e-1		Chloride

Totals : 2.00084

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    4
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 4:01:40 PM      Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

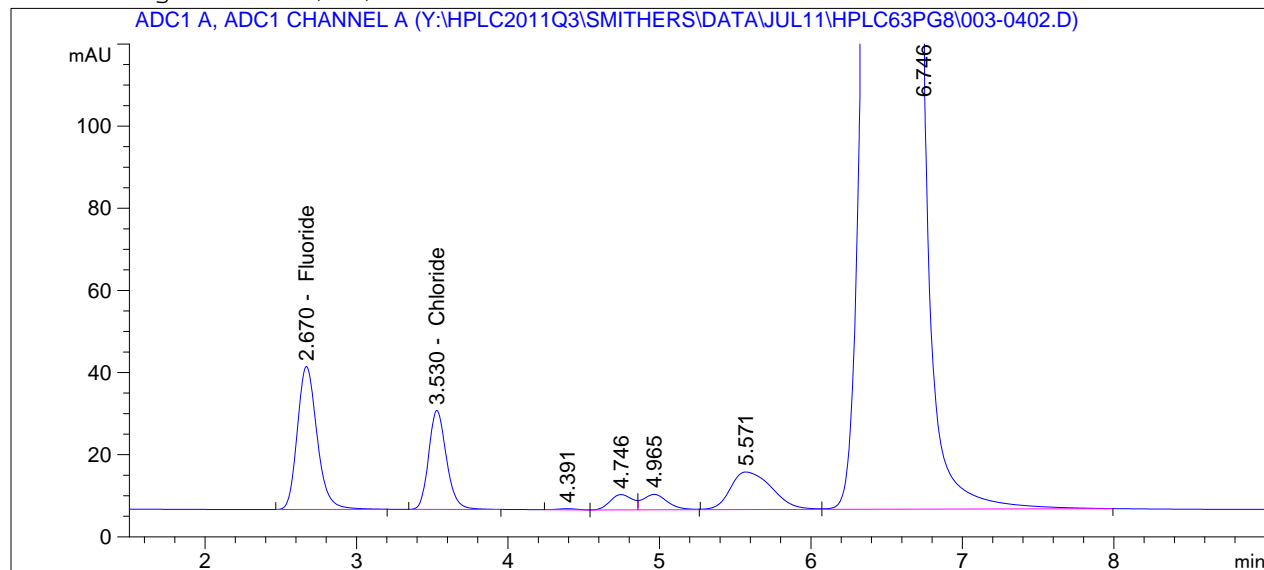
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.670	BB	317.24896	1.67167e-2	5.30335		Fluoride
3.532	BB	197.28696	2.49927e-2	4.93073		Chloride

Totals : 10.23408

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :    4
Acq. Instrument : Smithers                 Location  :    -
Injection Date  : 8/15/2011 4:12:56 PM      Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

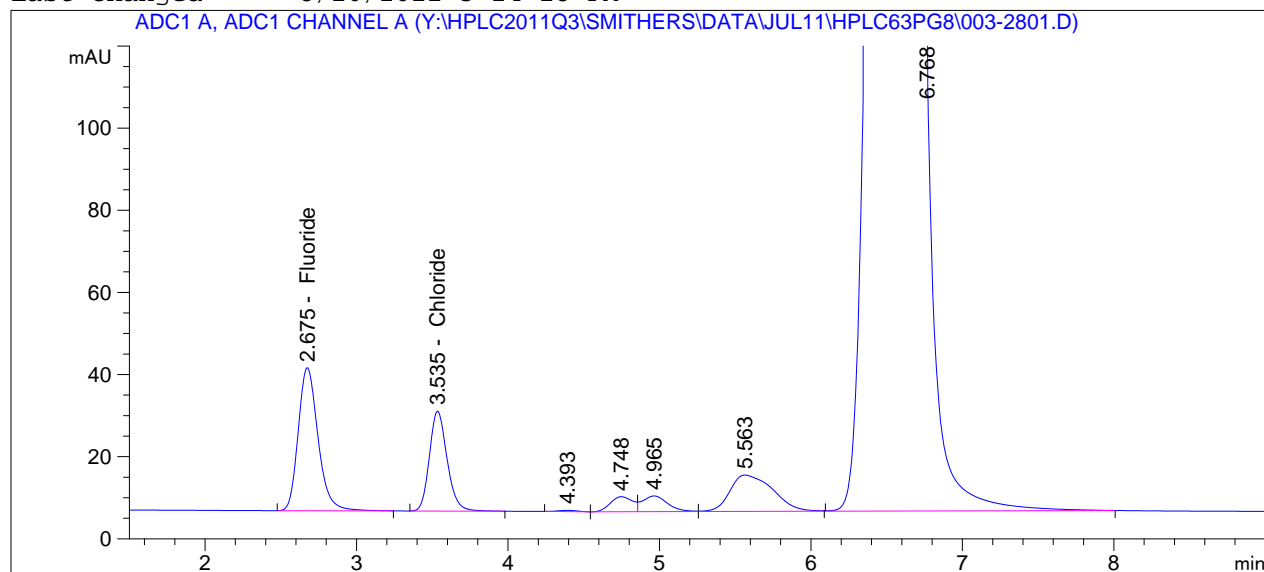
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.670	BB	315.43124	1.67164e-2	5.27288		Fluoride
3.530	BB	196.47299	2.49935e-2	4.91055		Chloride

Totals : 10.18343

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   28
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 2:19:56 AM    Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

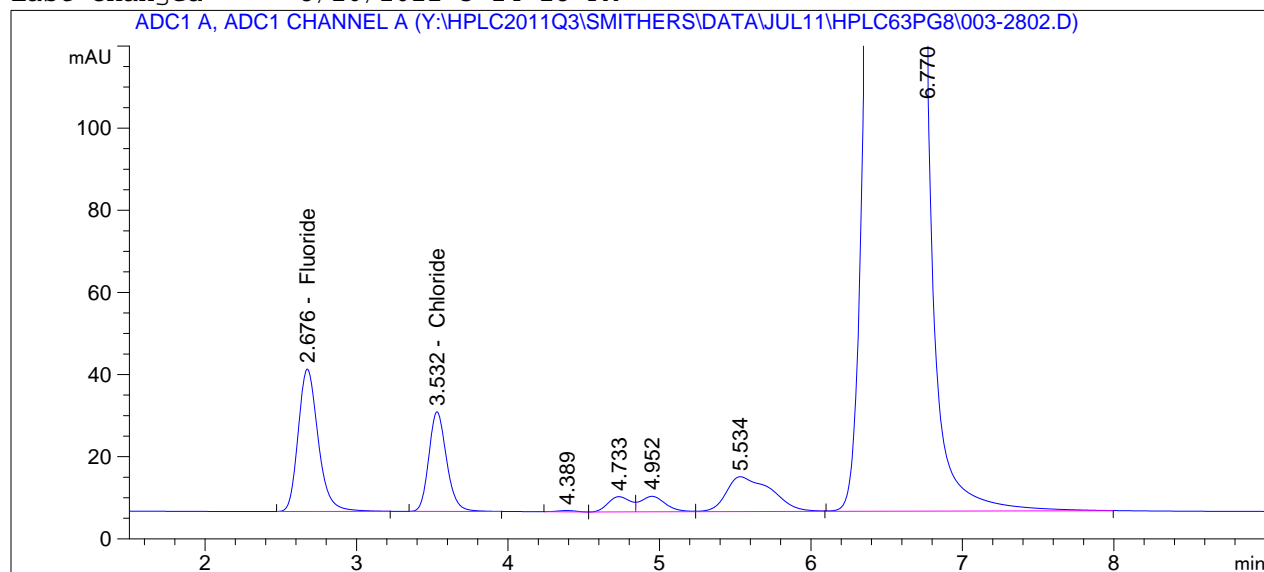
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.675	BB	316.59311	1.67166e-2	5.29235		Fluoride
3.535	BB	197.34268	2.49926e-2	4.93211		Chloride

Totals : 10.22447

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   28
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 2:31:12 AM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed     : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

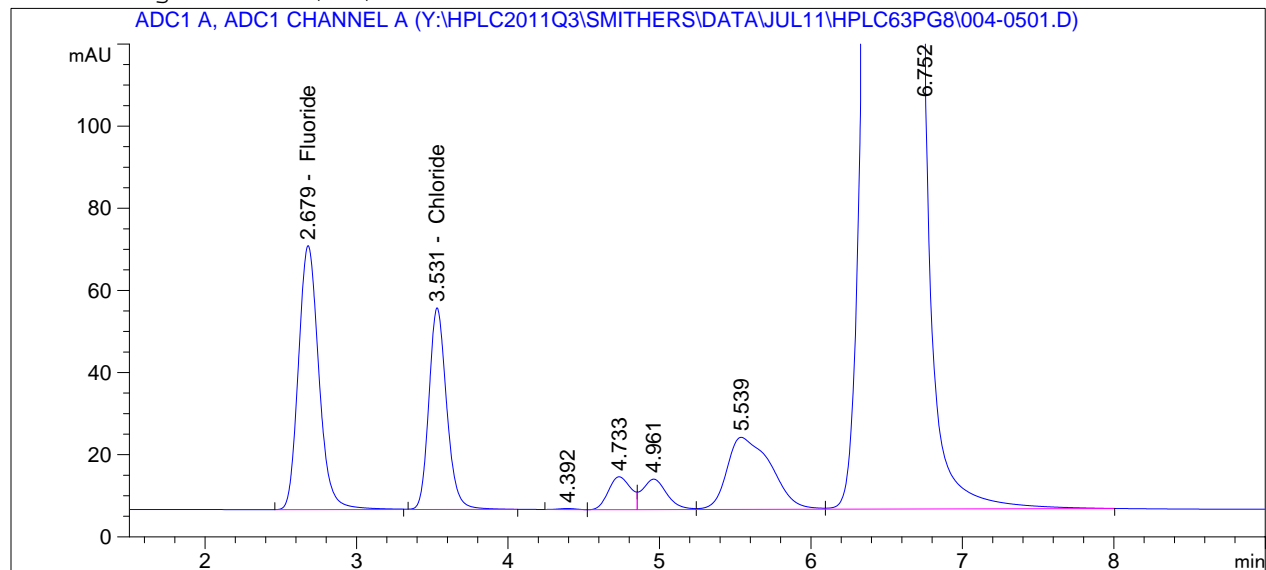
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.676	BB	317.68661	1.67167e-2	5.31068		Fluoride
3.532	BB	197.67088	2.49923e-2	4.94025		Chloride

Totals : 10.25093

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : EO                               Seq. Line :    5
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 4:24:12 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Tuesday, August 16, 2011 3:24:11 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

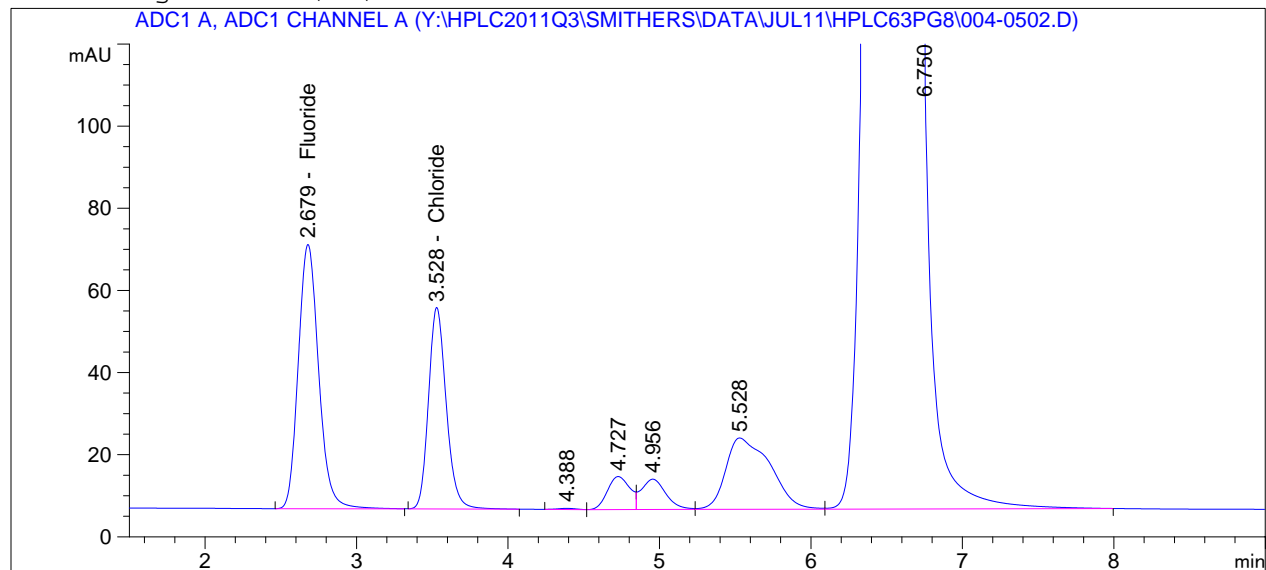
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.679	BB	602.13074	1.67374e-2	10.07808		Fluoride
3.531	BB	399.99234	2.48914e-2	9.95637		Chloride

Totals : 20.03445

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :    5
Acq. Instrument : Smithers                 Location  :    -
Injection Date  : 8/15/2011 4:35:28 PM      Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

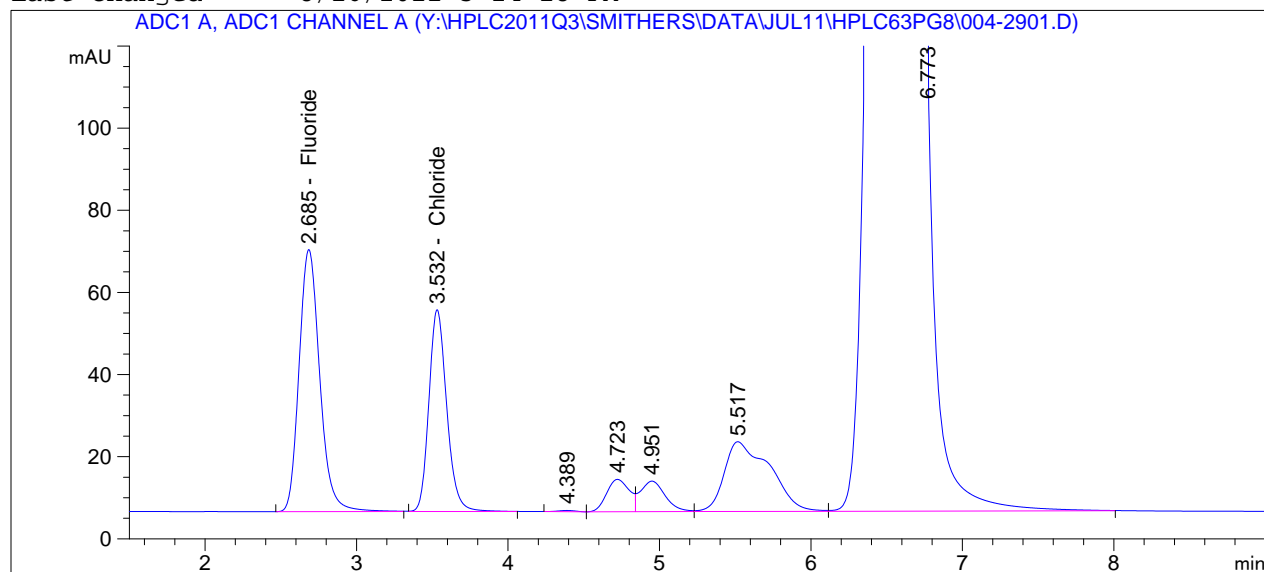
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.679	BB	601.96686	1.67374e-2	10.07533		Fluoride
3.528	BB	399.32040	2.48916e-2	9.93971		Chloride

Totals : 20.01505

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   29
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 2:42:28 AM      Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

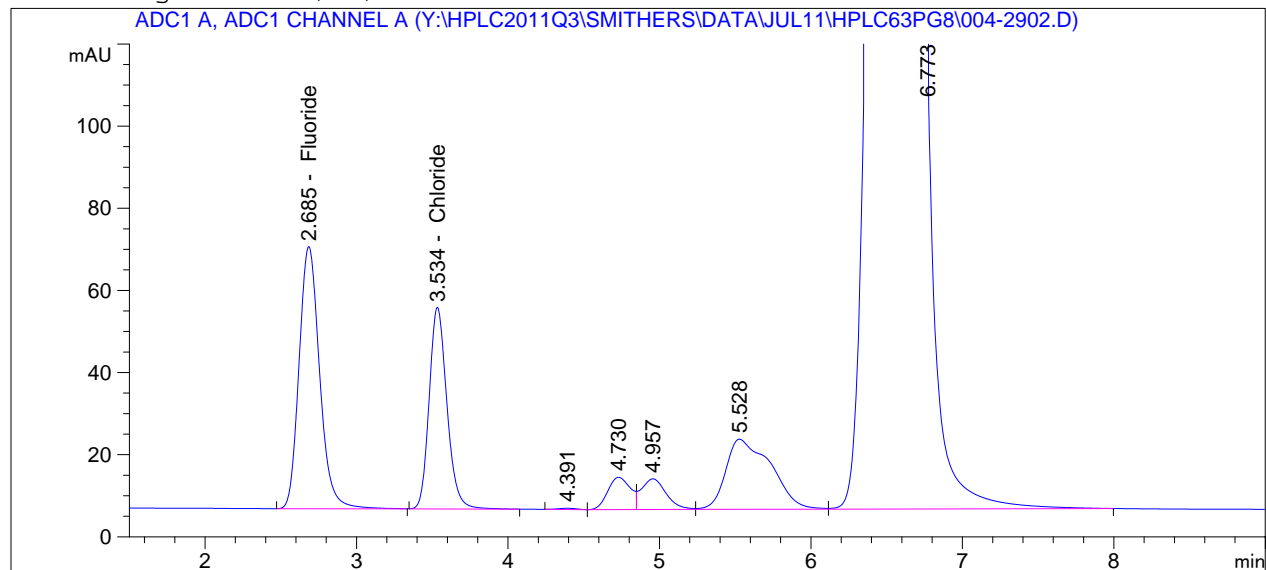
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.685	BB	605.45282	1.67375e-2	10.13376		Fluoride
3.532	BB	401.88330	2.48909e-2	10.00325		Chloride

Totals : 20.13701

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   29
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/16/2011 2:53:44 AM      Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

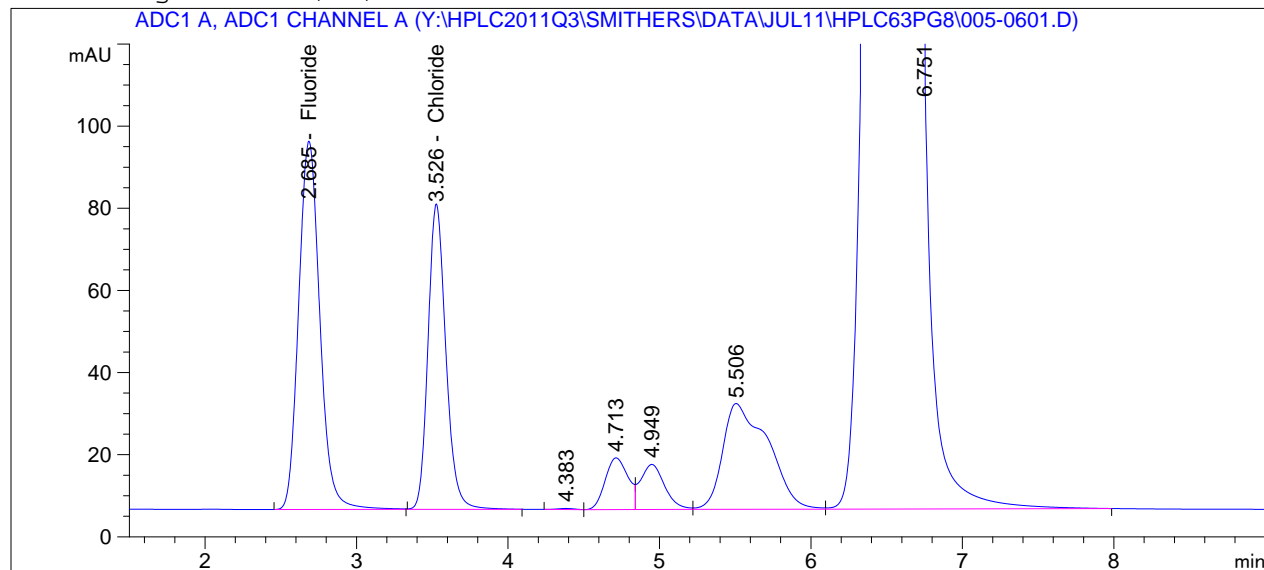
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.685	BB	602.35321	1.67374e-2	10.08181		Fluoride
3.534	BB	400.19257	2.48914e-2	9.96134		Chloride

Totals : 20.04315

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                               Seq. Line :    6
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 4:46:44 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

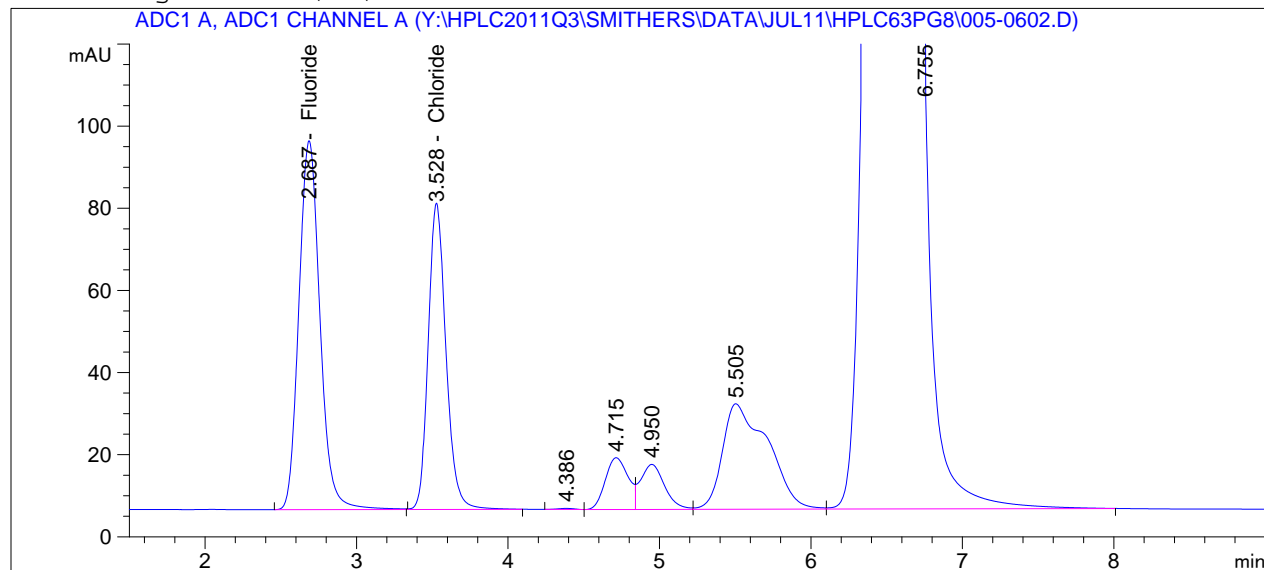
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.685	BB	869.67542	1.67445e-2	14.56224		Fluoride
3.526	BB	607.84564	2.48577e-2	15.10965		Chloride

Totals : 29.67189

*** End of Report ***

```
=====
Acq. Operator   : EO                               Seq. Line :    6
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 4:58:01 PM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

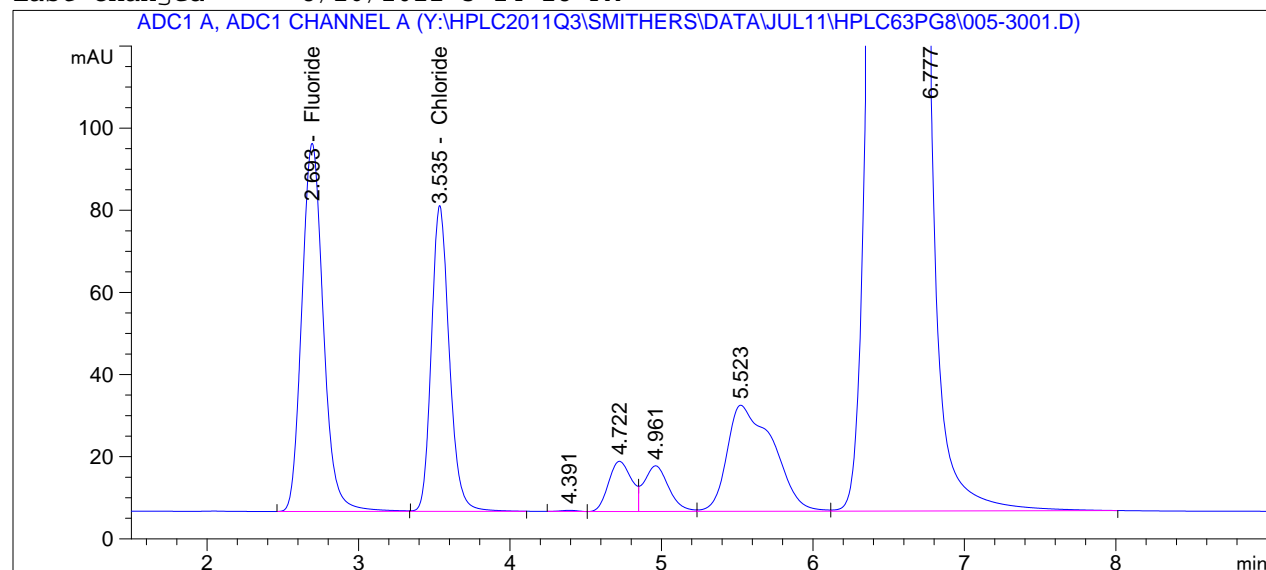
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.687	BB	866.67438	1.67444e-2	14.51194		Fluoride
3.528	BB	606.78931	2.48578e-2	15.08346		Chloride

Totals : 29.59540

*** End of Report ***

```
=====
Acq. Operator   : EO                               Seq. Line :   30
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/16/2011 3:05:01 AM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

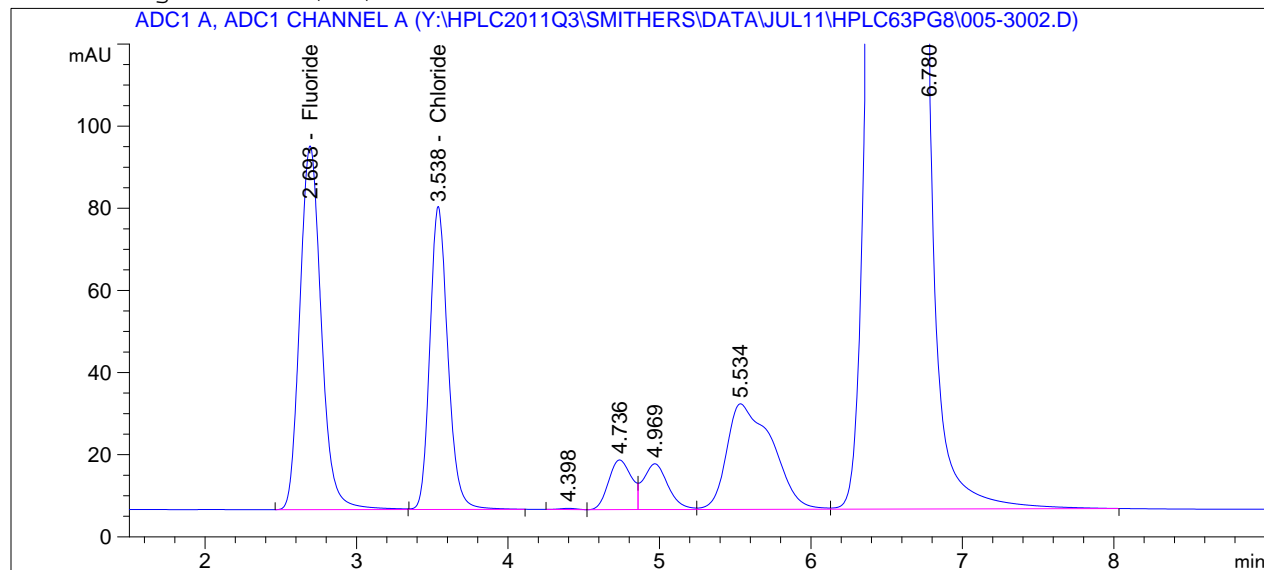
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.693	BB	881.06018	1.67447e-2	14.75305		Fluoride
3.535	BB	613.02332	2.48572e-2	15.23801		Chloride

Totals : 29.99107

*** End of Report ***

```
=====
Acq. Operator   : EO                               Seq. Line :   30
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/16/2011 3:16:17 AM             Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

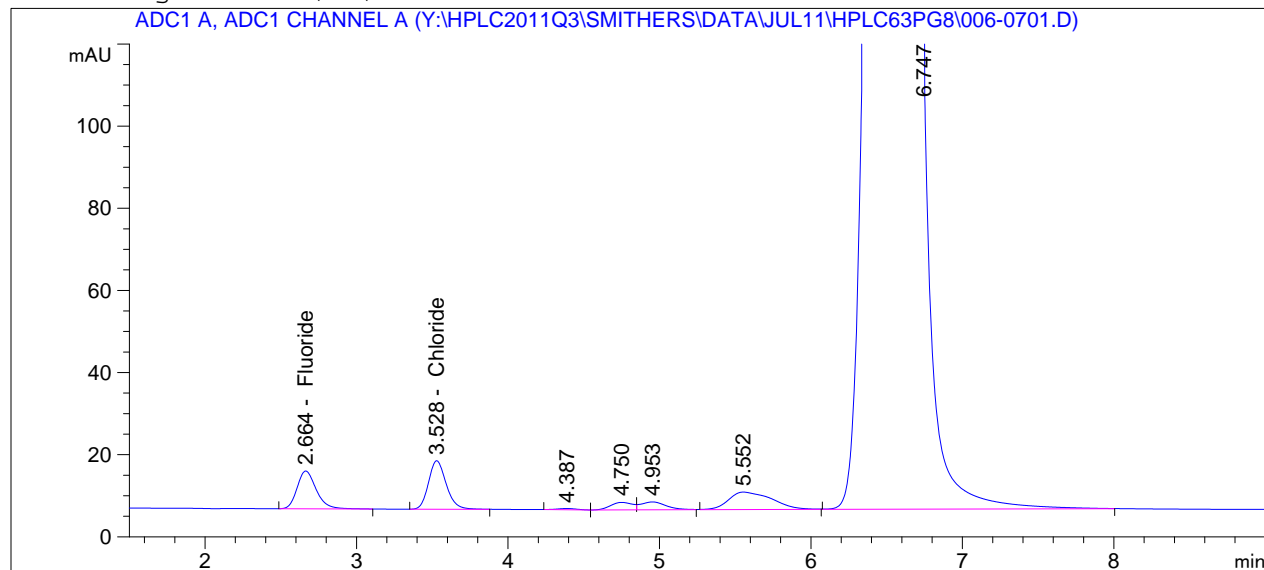
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.693	BB	868.54272	1.67444e-2	14.54326		Fluoride
3.538	BB	608.81714	2.48576e-2	15.13373		Chloride

Totals : 29.67699

*** End of Report ***


```
=====
Acq. Operator   : EO                      Seq. Line :    7
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 5:09:17 PM    Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

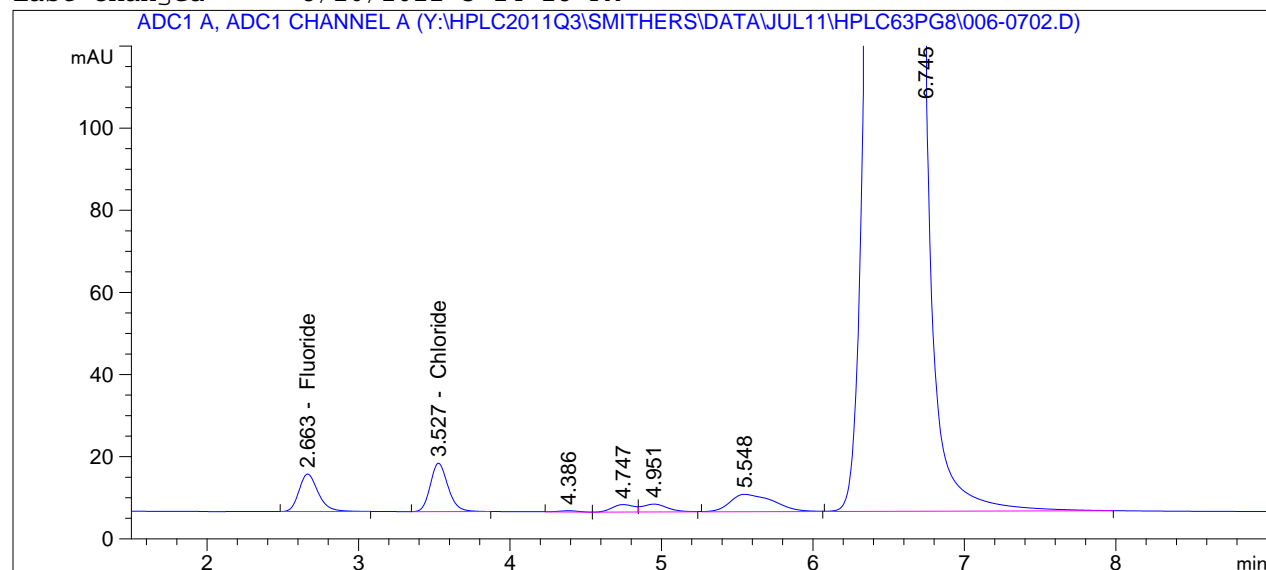
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.664	BB	80.80357	1.65887e-2	1.34042		Fluoride
3.528	BB	95.75636	2.52046e-2	2.41350		Chloride

Totals : 3.75392

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :    7
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 5:20:33 PM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

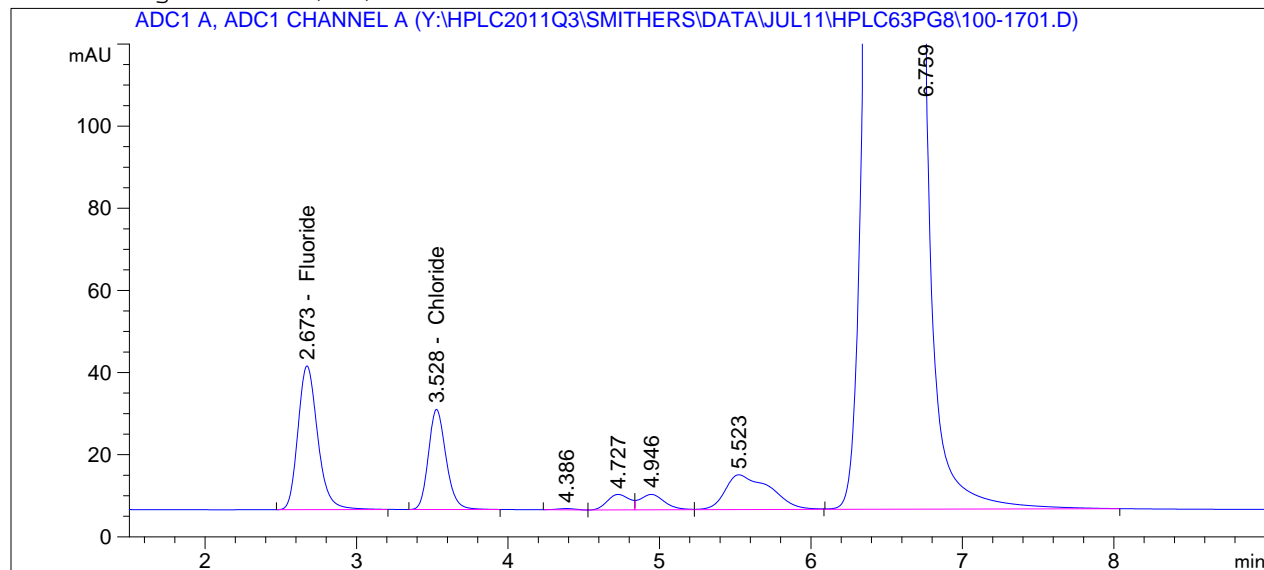
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.663	BB	80.44865	1.65879e-2	1.33447		Fluoride
3.527	BB	95.59711	2.52053e-2	2.40955		Chloride

Totals : 3.74403

*** End of Report ***

```
=====
Acq. Operator   : EO                               Seq. Line :   17
Acq. Instrument : Smithers                         Location  :    -
Injection Date  : 8/15/2011 9:16:45 PM             Inj       :    1
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



External Standard Report

```
=====
Sorted By       :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

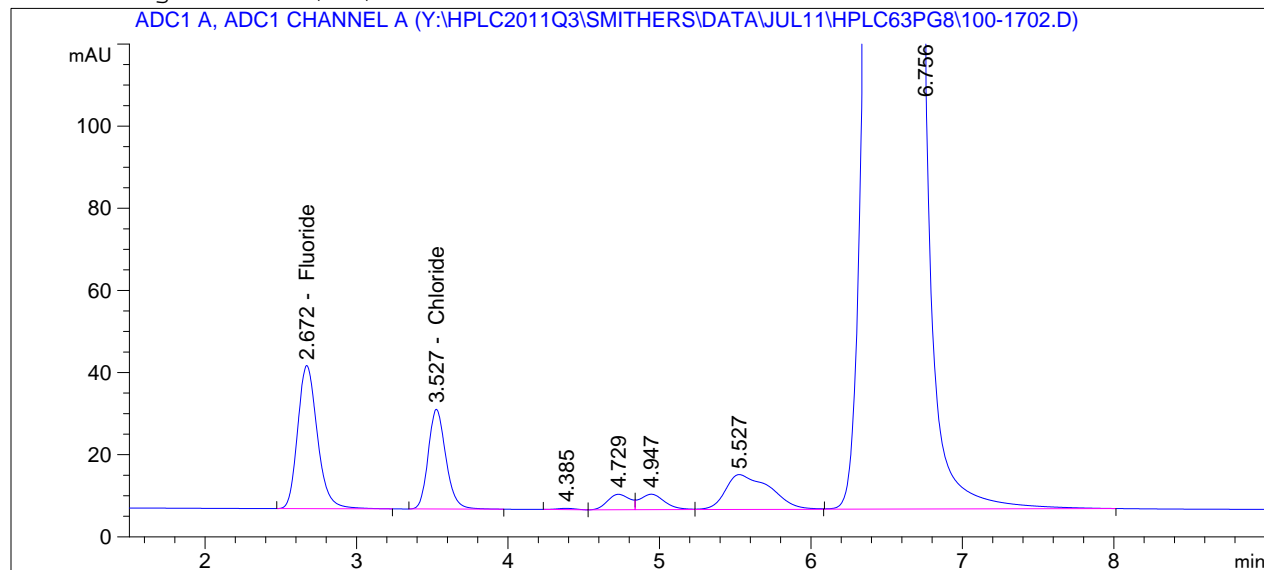
Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.673	BB	316.52286	1.67166e-2	5.29118		Fluoride
3.528	BB	197.00270	2.49930e-2	4.92368		Chloride

Totals : 10.21486

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   17
Acq. Instrument : Smithers                Location  :    -
Injection Date  : 8/15/2011 9:28:02 PM    Inj       :    2
Acq. Method     : C:\HPCHEM\1\METHODS\METROHM.M
Last changed    : 8/8/2011 11:32:47 AM by AMP
Analysis Method : Y:\HPLC2011Q3\SMITHERS\METHODS\HPLC63PG8.M
Last changed    : 8/16/2011 3:24:18 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, August 16, 2011 3:24:11 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1 CHANNEL A

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.672	BB	315.41498	1.67164e-2	5.27261		Fluoride
3.527	BB	196.66872	2.49933e-2	4.91540		Chloride

Totals : 10.18801

```
=====
*** End of Report ***
=====
```

Method Information

Method: U:\HPLC2010Q1\SMITHERS\METHODS\METROHM.M
Modified: 1/13/2010 at 7:06:26 AM

=====

ANALOG DIGITAL CONVERTER

=====

Signal 1

Description: ADC1 A, Metrohm
Source: Signal
Unit: mA
Units/Volt: 100.000
Peakwidth (Data Rate): 0.027 Min (10.00 Hz)
Stop Time: No Limit
Data Storage: All

Start Signal Source: External Device Will Start 35900

Timed Event Table:

<no events>

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
1	Vial 127	DI Rinse	METROHM	4	Sample	
2	Vial 1	HPLC63pg8 #1	METROHM	2	Sample	
3	Vial 2	HPLC63pg8 #2	METROHM	2	Sample	
4	Vial 3	HPLC63pg8 #3	METROHM	2	Sample	
5	Vial 4	HPLC63pg8 #4	METROHM	2	Sample	
6	Vial 5	HPLC63pg8 #5	METROHM	2	Sample	
7	Vial 6	HPLC63pg8 #SS	METROHM	2	Sample	
8	Vial 7	0.01N H2SO4/NaOH RB	METROHM	2	Sample	
9	Vial 8	T1R1I1,2,PW *10 081 1-19	METROHM	2	Sample	
10	Vial 9	MS T1R1I1,2,PW *10 0811-19	METROHM	2	Sample	
11	Vial 10	MSD T1R1I1,2,PW *10 0811-19	METROHM	2	Sample	
12	Vial 11	T1R2I1,2,PW *10 081 1-19	METROHM	2	Sample	
13	Vial 12	T1R3I1,2,PW *10 081 1-19	METROHM	2	Sample	
14	Vial 13	T1R0I1,2,PW *10 081 1-19	METROHM	2	Sample	
15	Vial 14	T1R1I3 *10 0811-19	METROHM	2	Sample	
16	Vial 15	MS T1R1I3 *10 0811- 19	METROHM	2	Sample	
17	Vial 100	HPLC63pg8 #3	METROHM	2	Sample	
18	Vial 101	HPLC63pg8 #4	METROHM	2	Sample	
19	Vial 16	MSD T1R1I3 *10 0811 -19	METROHM	2	Sample	
20	Vial 17	T1R2I3 *10 0811-19	METROHM	2	Sample	
21	Vial 18	T1R3I3 *10 0811-19	METROHM	2	Sample	
22	Vial 19	T1R0I3 *10 0811-19	METROHM	2	Sample	
23	Vial 20	T1R00 H2SO4 RB *10 0811-19	METROHM	2	Sample	

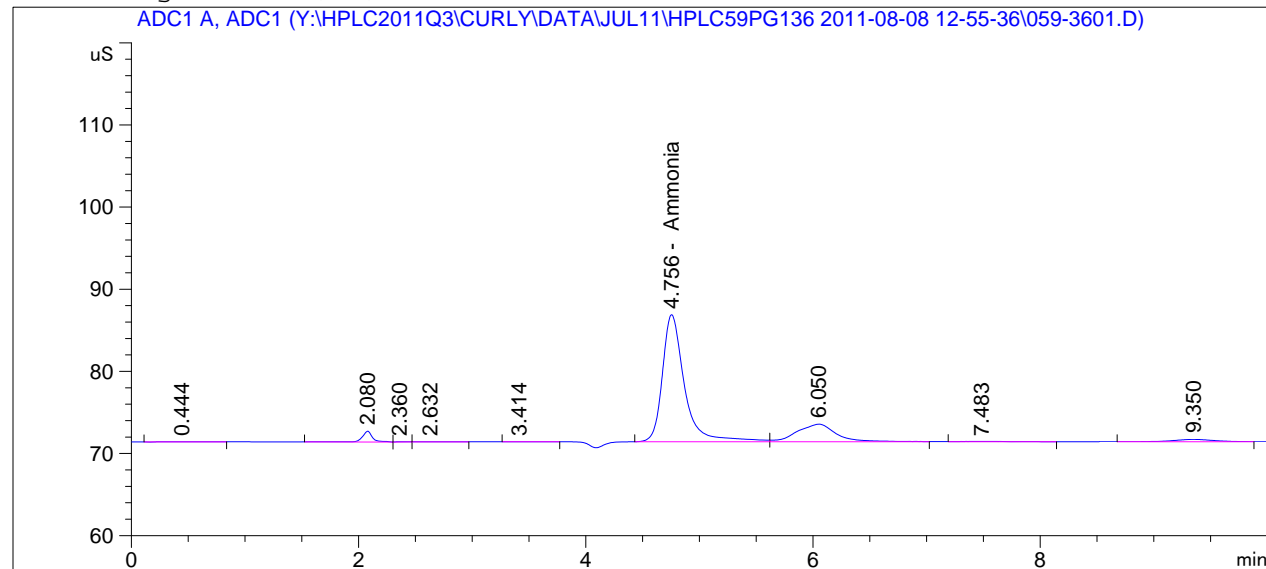
Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
24	Vial 21	T1R00 NaOH RB *10 0 811-19	METROHM	2	Sample	
25	Vial 22	T1R00 DI H2O RB 081 1-19	METROHM	2	Sample	
26	Vial 1	HPLC63pg8 #1	METROHM	2	Sample	
27	Vial 2	HPLC63pg8 #2	METROHM	2	Sample	
28	Vial 3	HPLC63pg8 #3	METROHM	2	Sample	
29	Vial 4	HPLC63pg8 #4	METROHM	2	Sample	
30	Vial 5	HPLC63pg8 #5	METROHM	2	Sample	

Sample Chromatograms


```

=====
Acq. Operator   : EO                      Seq. Line :   36
Acq. Instrument : Curly                  Location  : Vial 59
Injection Date  : 8/9/2011 1:33:05 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.756	BV	209.25006	1.80155e-2	3.76975		Ammonia

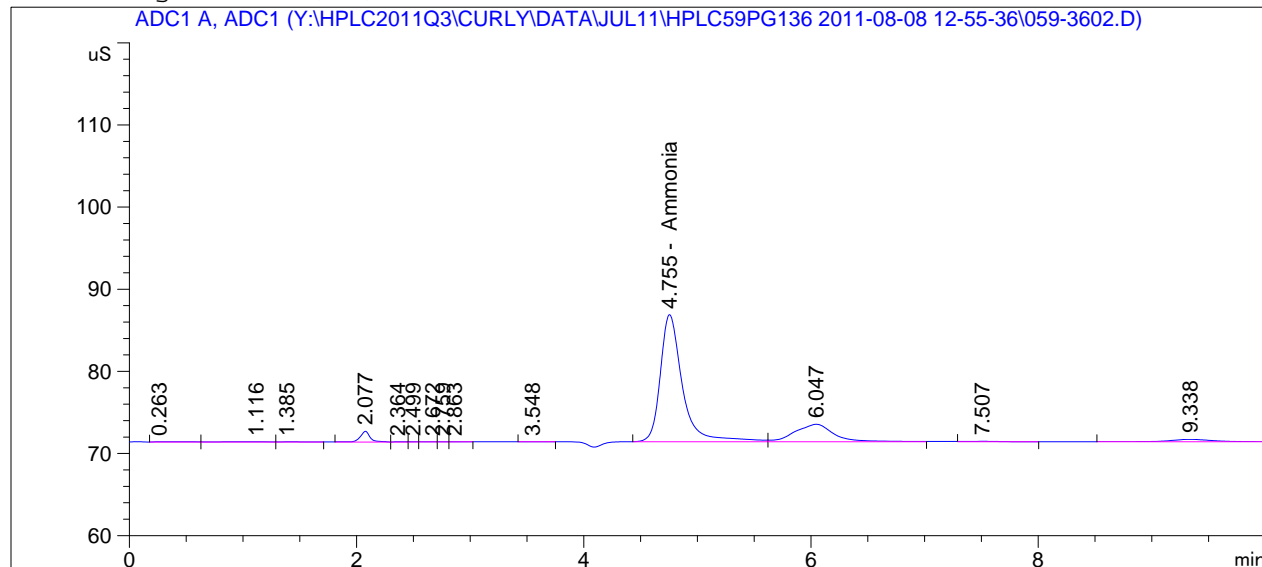
Totals : 3.76975

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   36
Acq. Instrument : Curly                  Location  : Vial 59
Injection Date  : 8/9/2011 1:44:45 PM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

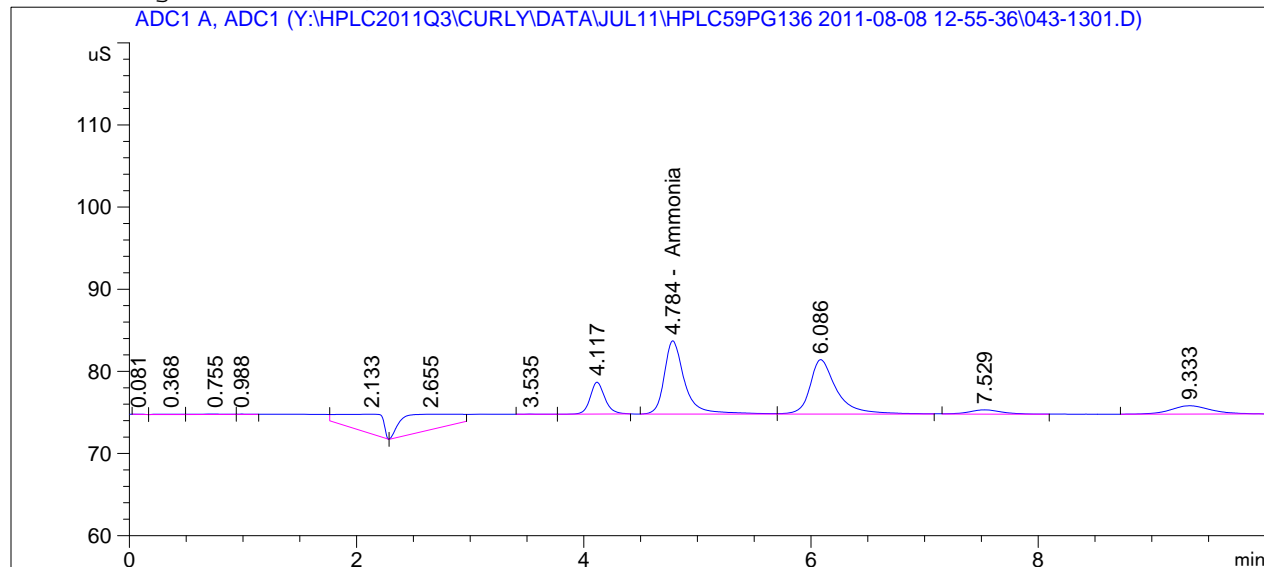
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.755	BV	209.04375	1.80131e-2	3.76552	--	Ammonia

Totals : 3.76552

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   13
Acq. Instrument : Curly                  Location  : Vial 43
Injection Date  : 8/8/2011 5:38:30 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

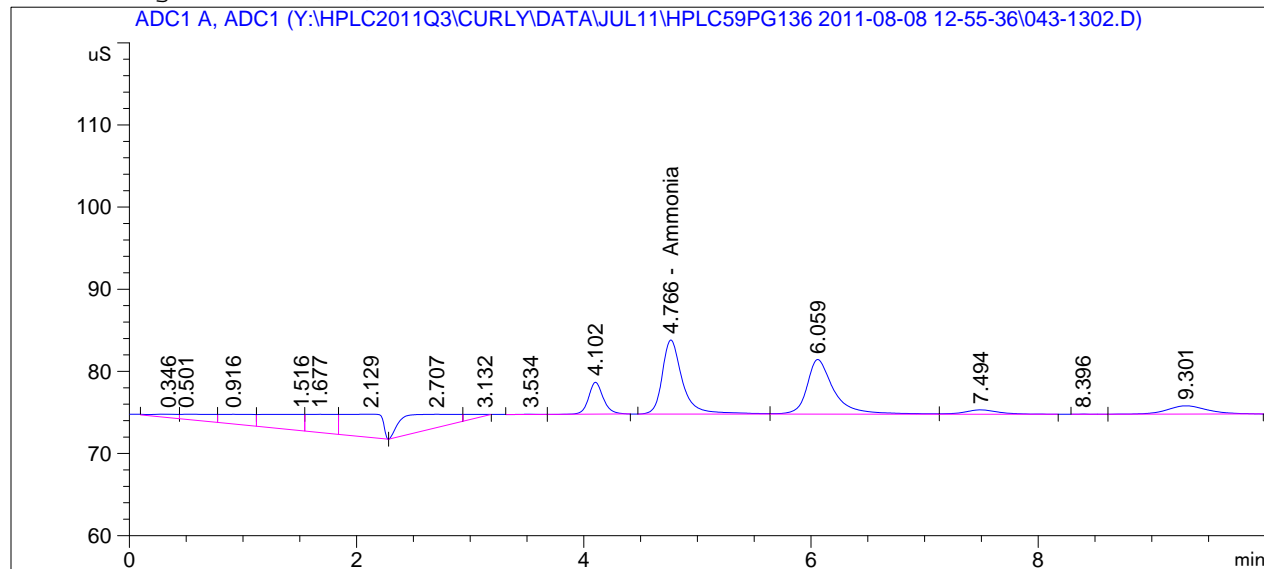
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.784	BV	111.75980	1.66221e-2	1.85768		Ammonia

Totals : 1.85768

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   13
Acq. Instrument : Curly                  Location  : Vial 43
Injection Date  : 8/8/2011 5:50:11 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.766	BV	111.82684	1.66234e-2	1.85894	--	Ammonia

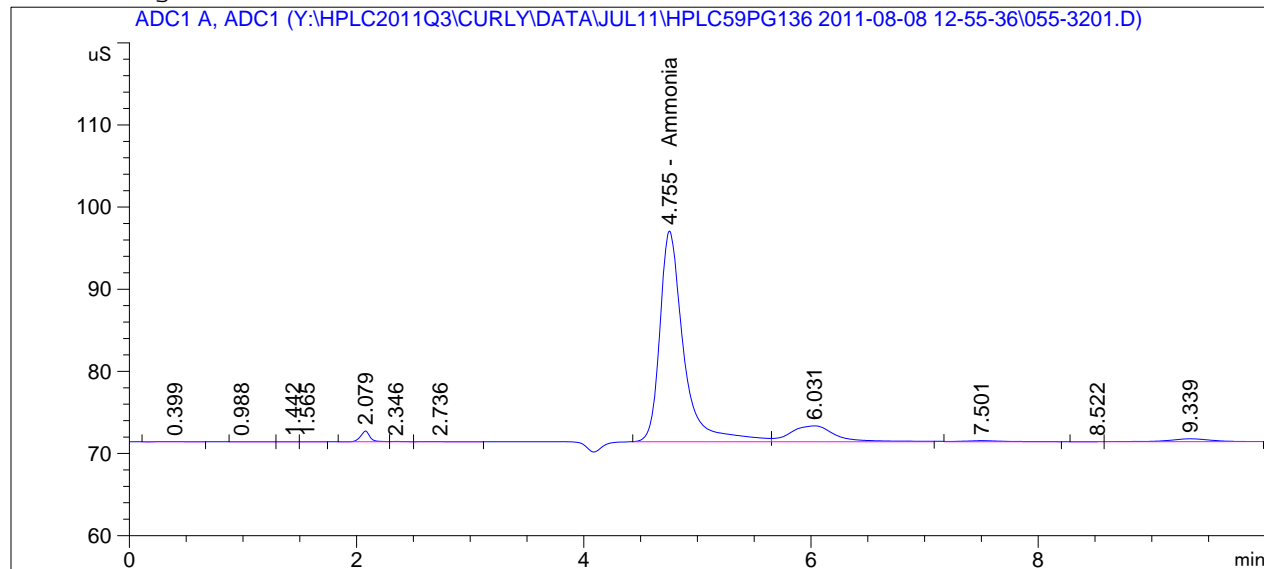
Totals : 1.85894

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   32
Acq. Instrument : Curly                  Location  : Vial 55
Injection Date  : 8/9/2011 11:41:49 AM   Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.755	BV	374.42899	2.00387e-2	7.50307	--	Ammonia

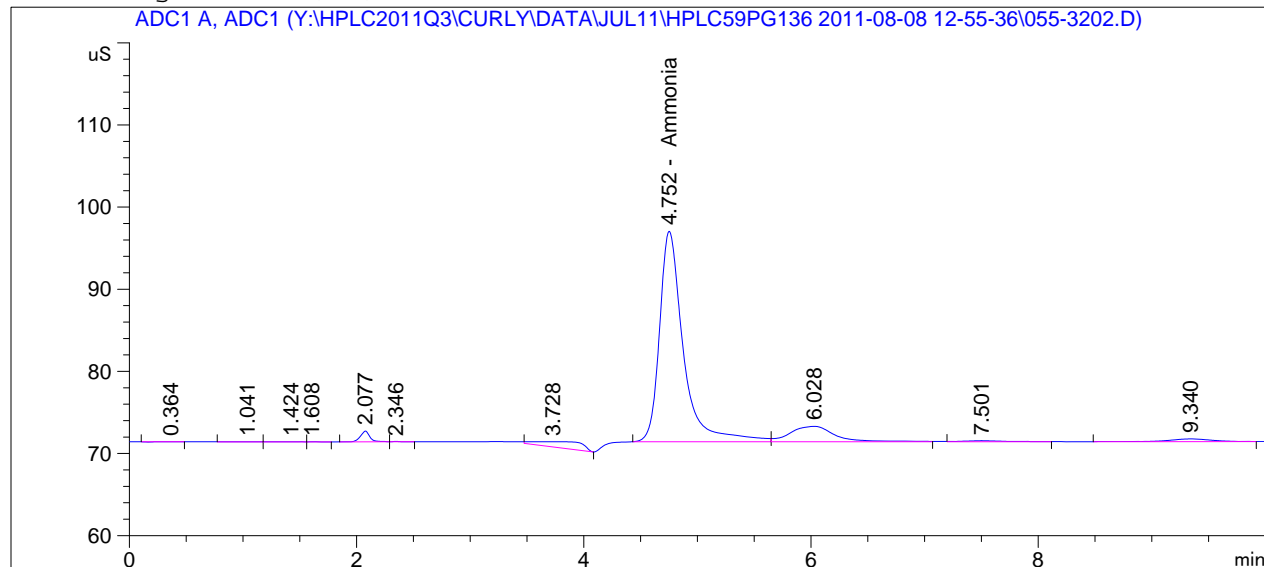
Totals : 7.50307

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   32
Acq. Instrument : Curly                  Location  : Vial 55
Injection Date  : 8/9/2011 11:53:31 AM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

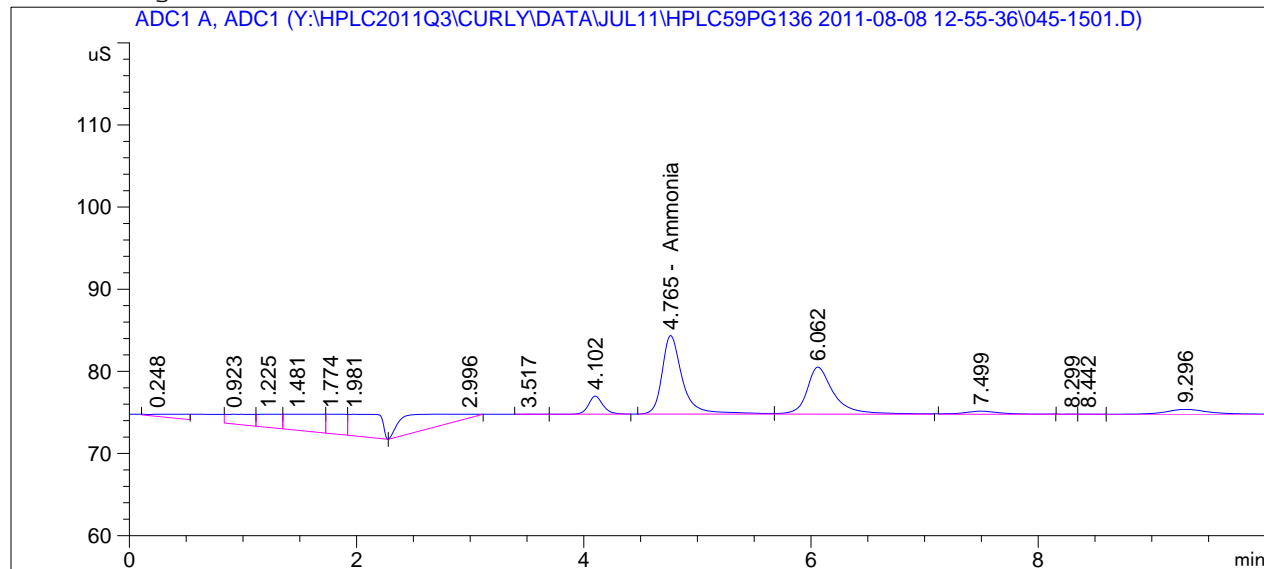
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.752	BV	374.00726	2.00330e-2	7.49247	--	Ammonia

Totals : 7.49247

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   15
Acq. Instrument : Curly                   Location  : Vial 45
Injection Date  : 8/8/2011 6:25:18 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

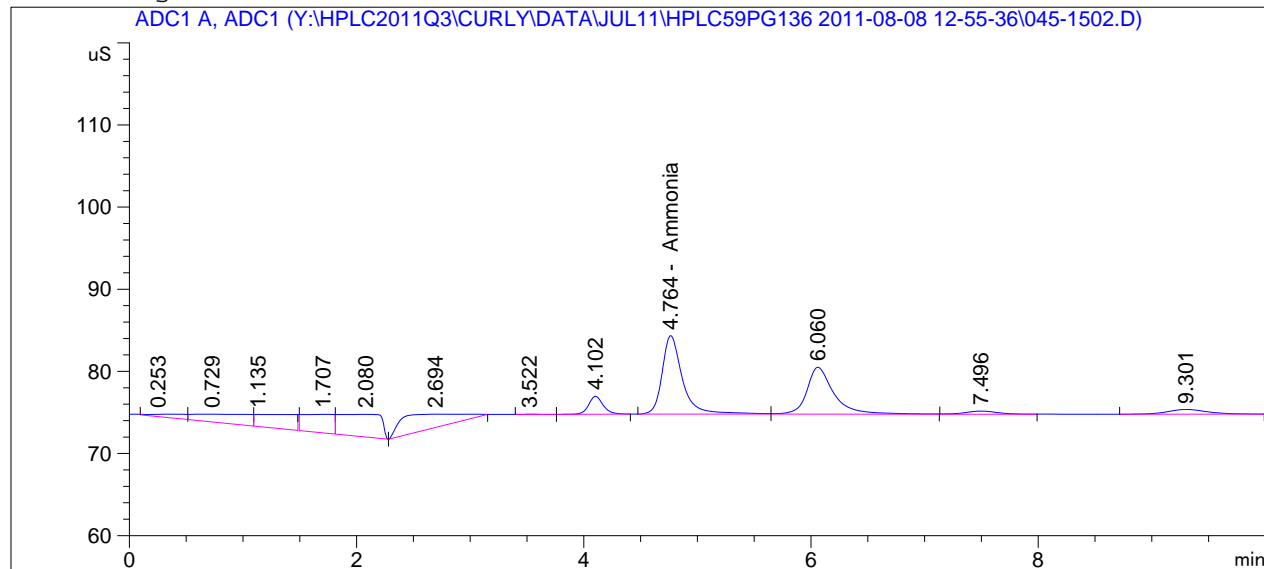
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.765	BV	119.70237	1.67689e-2	2.00728		Ammonia

Totals : 2.00728

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   15
Acq. Instrument : Curly                  Location  : Vial 45
Injection Date  : 8/8/2011 6:36:59 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.764	BV	119.25883	1.67610e-2	1.99890		Ammonia

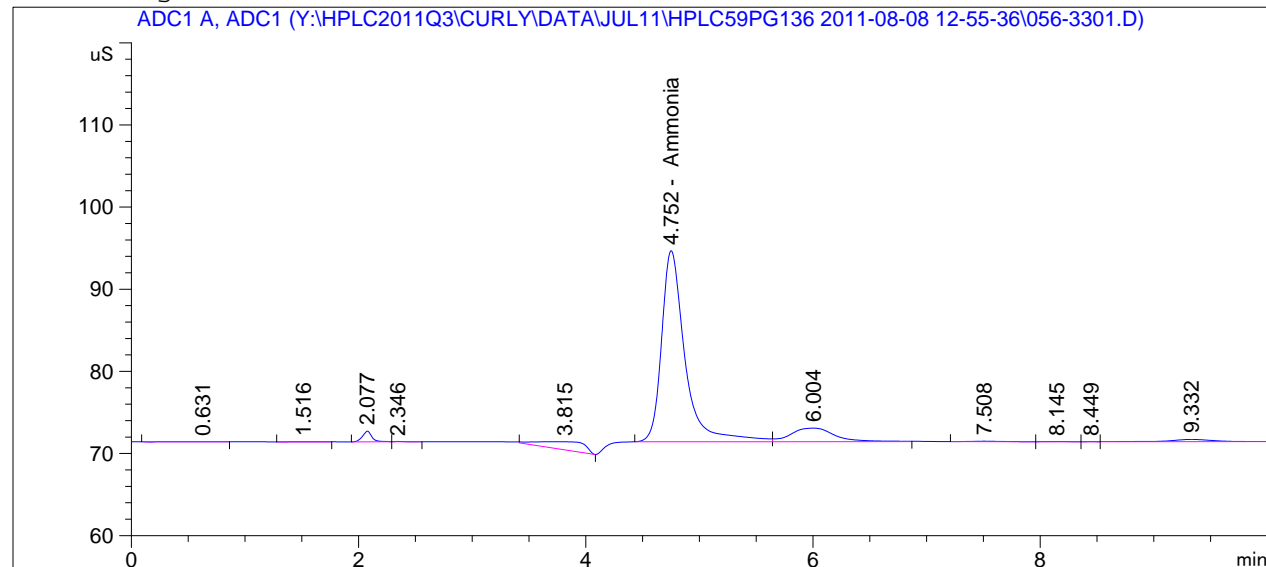
Totals : 1.99890

*** End of Report ***


```

=====
Acq. Operator   : EO                      Seq. Line :   33
Acq. Instrument : Curly                  Location  : Vial 56
Injection Date  : 8/9/2011 12:05:13 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.752	BV	333.92337	1.95084e-2	6.51433		Ammonia

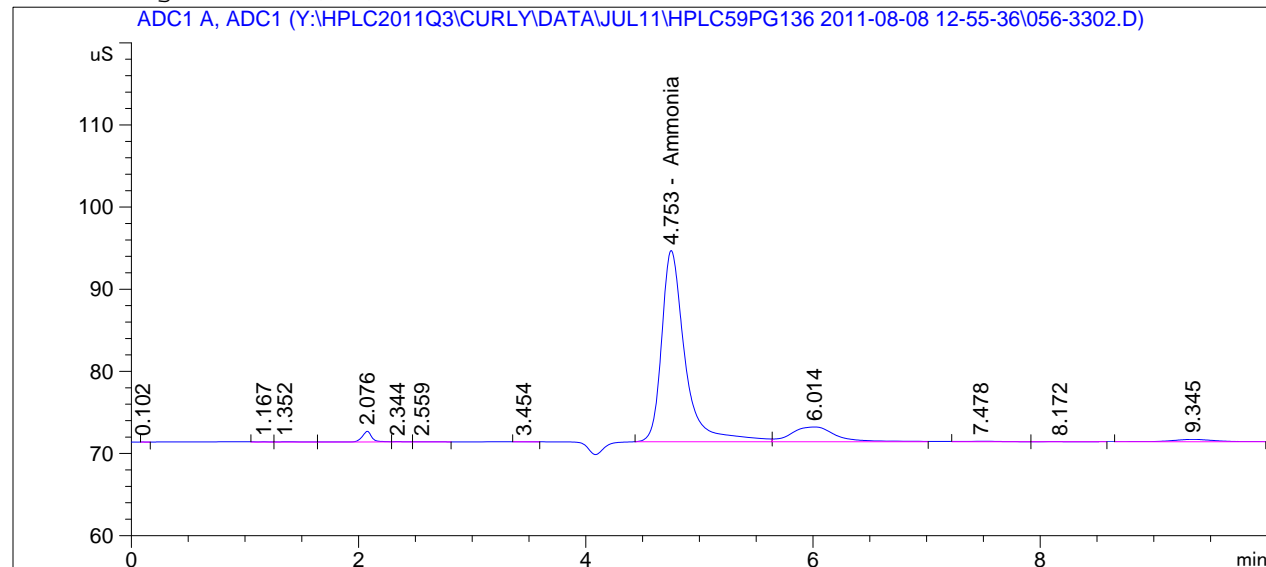
Totals : 6.51433

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   33
Acq. Instrument : Curly                  Location  : Vial 56
Injection Date  : 8/9/2011 12:34:22 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

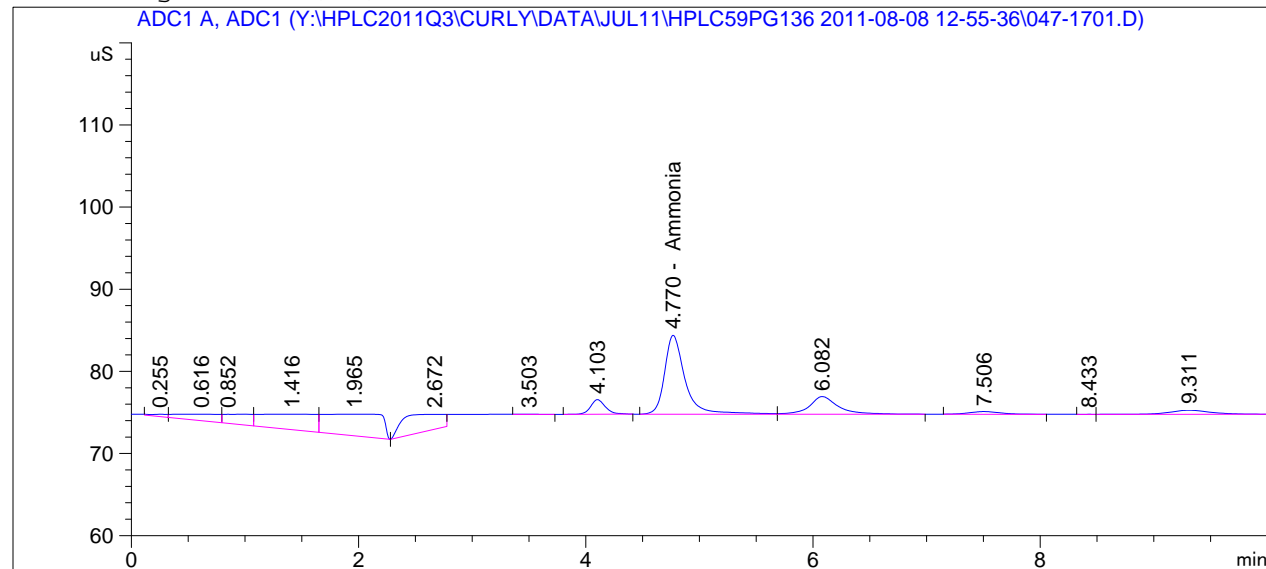
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.753	BV	334.48938	1.95156e-2	6.52776		Ammonia

Totals : 6.52776

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   17
Acq. Instrument : Curly                   Location  : Vial 47
Injection Date  : 8/8/2011 7:12:08 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.770	BV	120.77393	1.67879e-2	2.02754	--	Ammonia

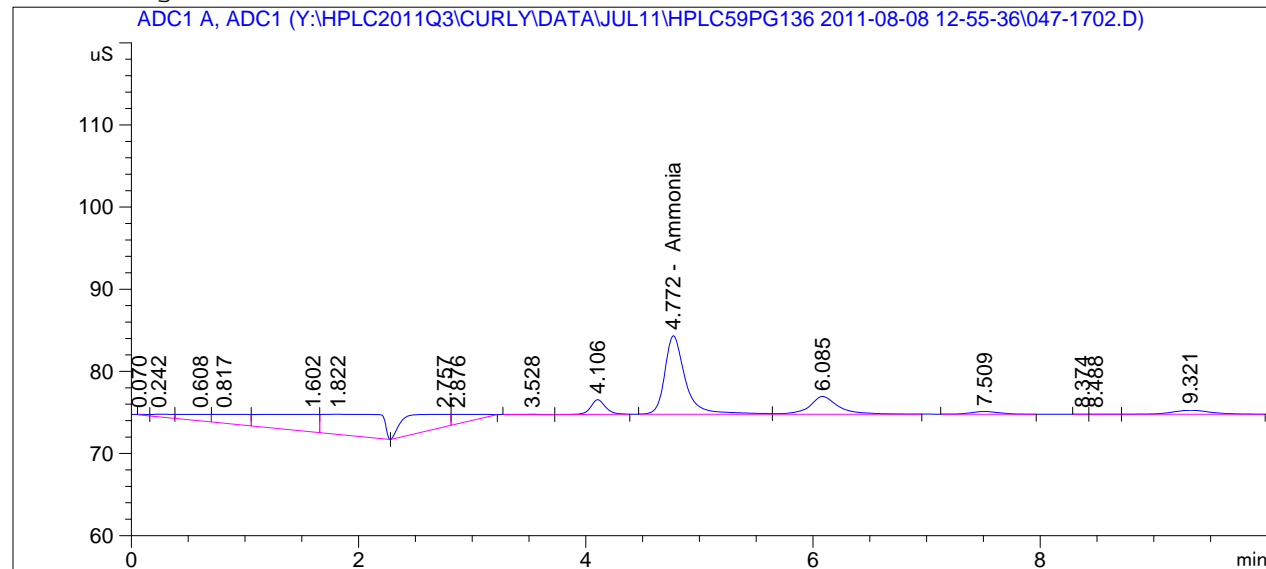
Totals : 2.02754

```
=====
*** End of Report ***
=====
```

```

=====
Acq. Operator   : EO                      Seq. Line :   17
Acq. Instrument : Curly                   Location  : Vial 47
Injection Date  : 8/8/2011 7:23:50 PM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

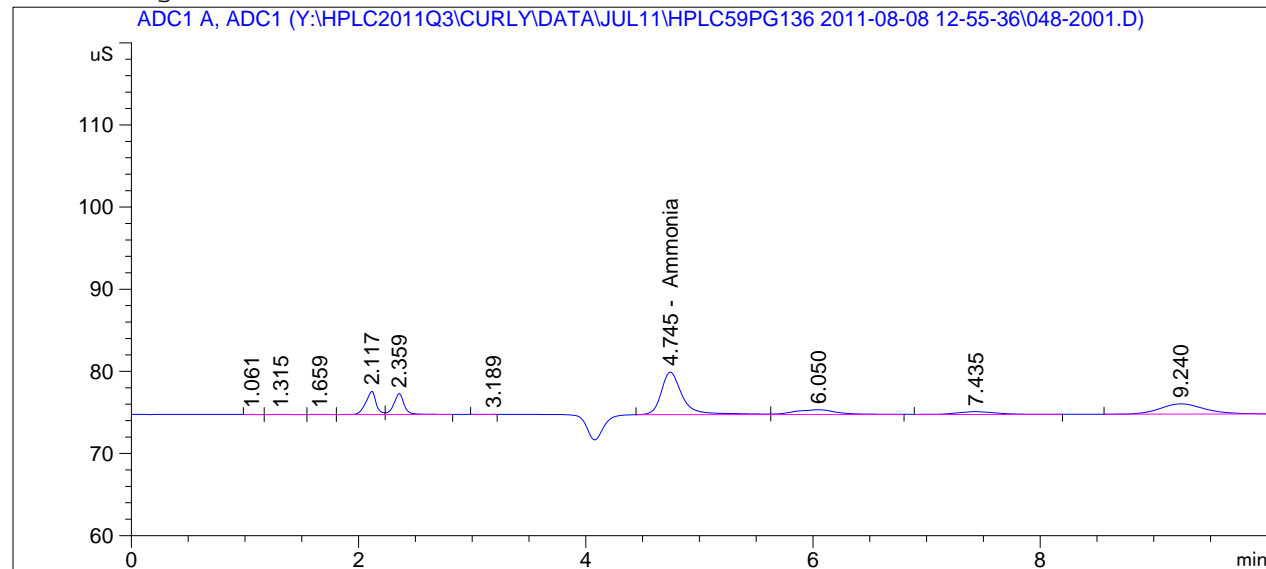
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.772	BV	120.09978	1.67760e-2	2.01479		Ammonia

Totals : 2.01479

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   20
Acq. Instrument : Curly                   Location  : Vial 48
Injection Date  : 8/8/2011 8:22:26 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

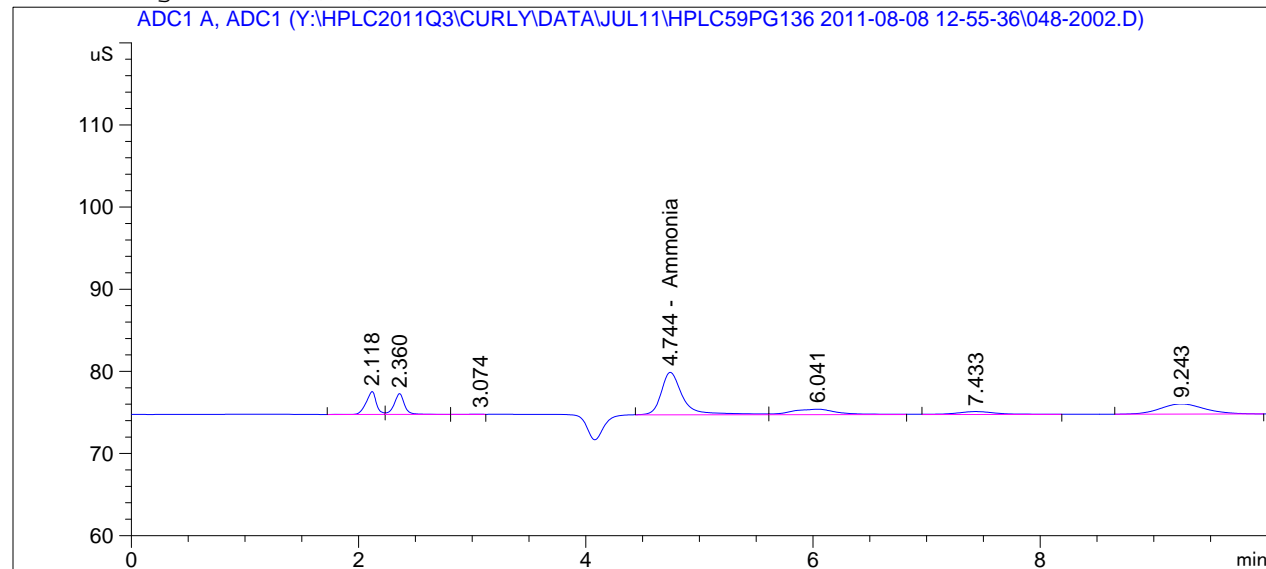
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.745	BV	68.31811	1.54654e-2	1.05657	--	Ammonia

Totals : 1.05657

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   20
Acq. Instrument : Curly                  Location  : Vial 48
Injection Date  : 8/8/2011 8:34:07 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.744	BV	68.46706	1.54712e-2	1.05927		Ammonia

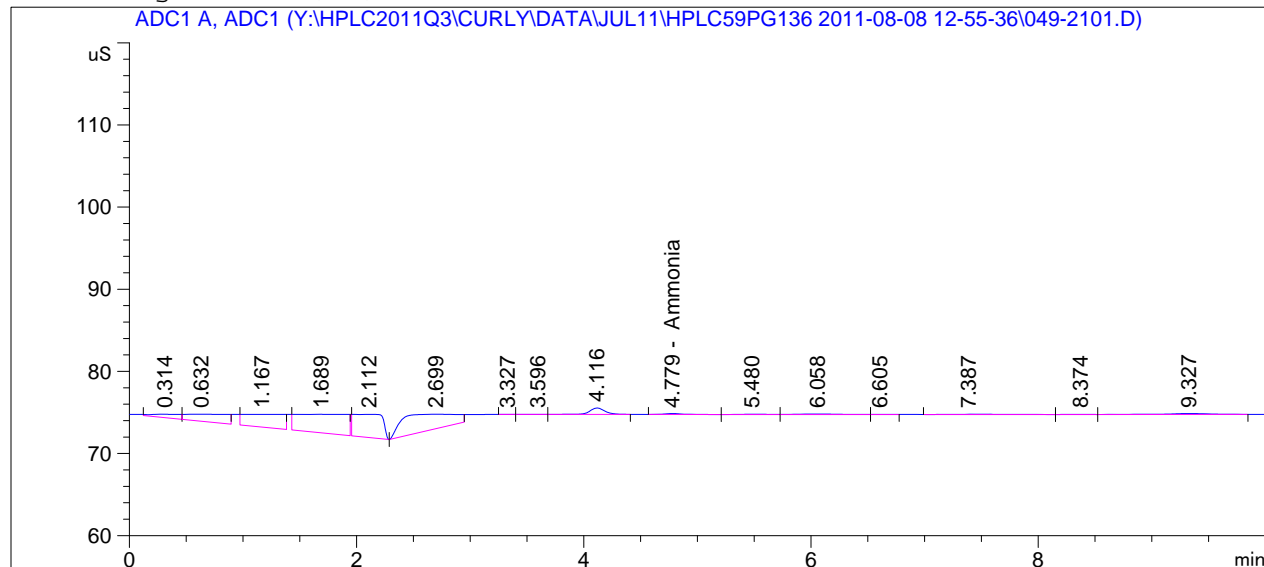
Totals : 1.05927

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   21
Acq. Instrument : Curly                  Location  : Vial 49
Injection Date  : 8/8/2011 8:45:49 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.779	BB	1.15971	1.05975e-2	1.22900e-2		Ammonia

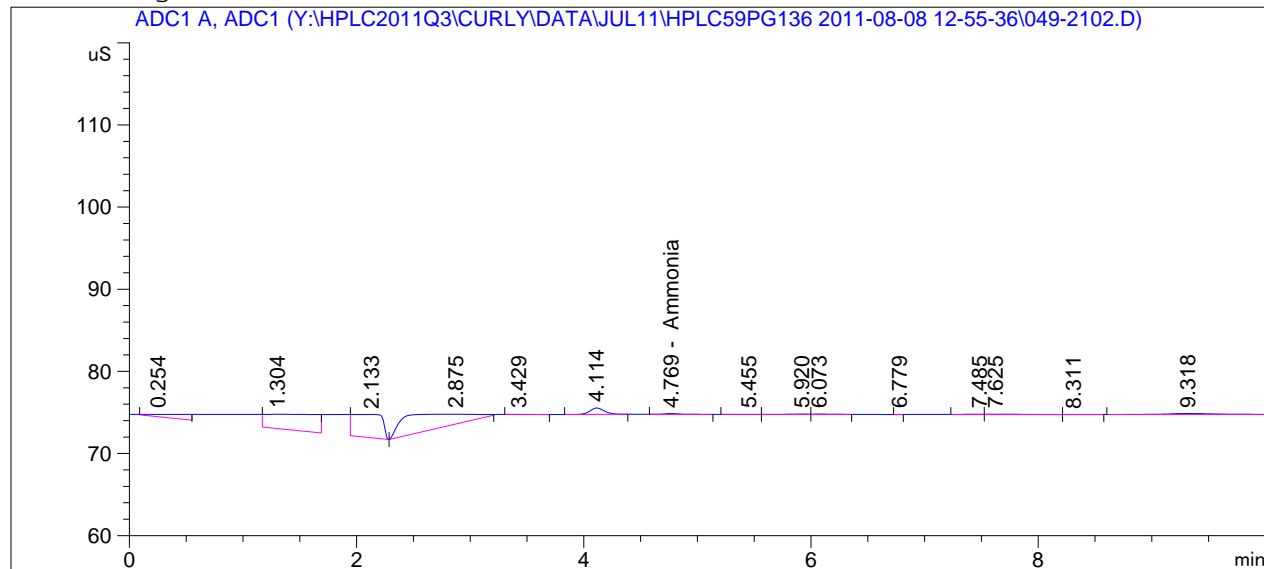
Totals : 1.22900e-2

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   21
Acq. Instrument : Curly                   Location  : Vial 49
Injection Date  : 8/8/2011 8:57:33 PM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

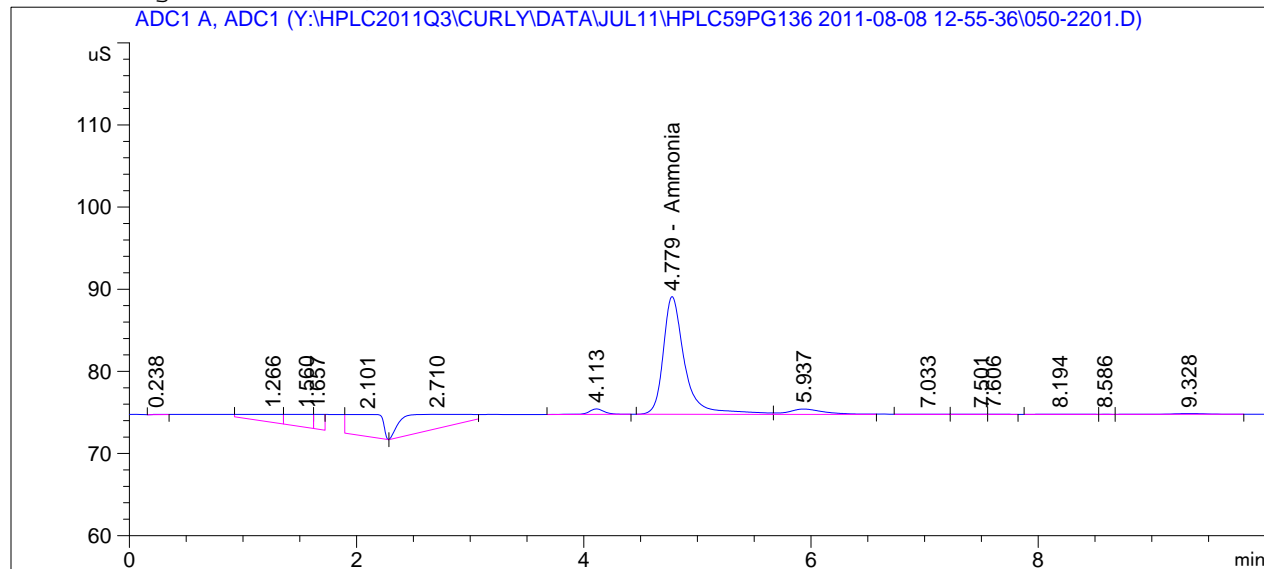
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.769	BB	9.80117e-1	1.05975e-2	1.03868e-2		Ammonia

Totals : 1.03868e-2

*** End of Report ***


```
=====
Acq. Operator   : EO                      Seq. Line :   22
Acq. Instrument : Curly                   Location  : Vial 50
Injection Date  : 8/8/2011 9:09:18 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

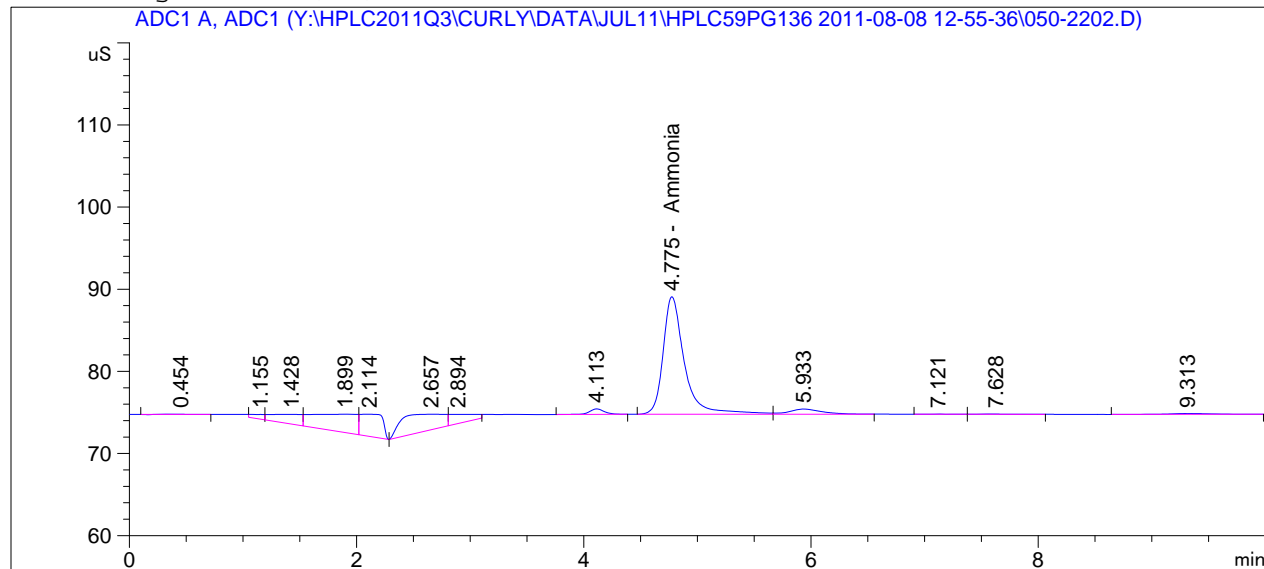
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.779	BV	188.46646	1.77612e-2	3.34739	--	Ammonia

Totals : 3.34739

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   22
Acq. Instrument : Curly                   Location  : Vial 50
Injection Date  : 8/8/2011 9:21:04 PM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

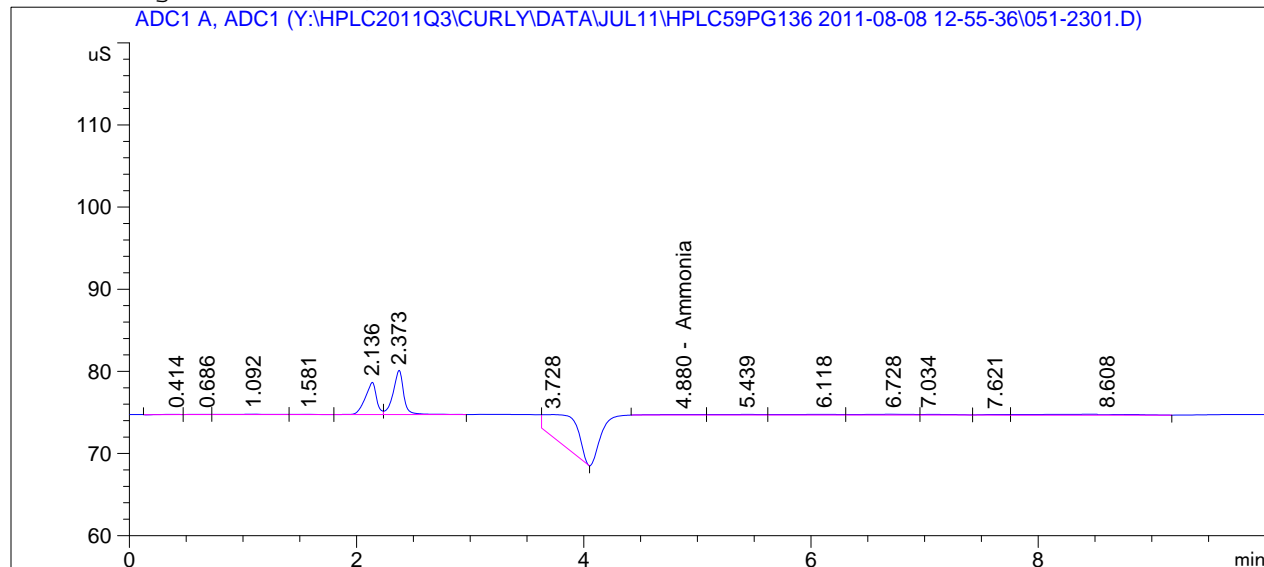
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.775	BV	186.83107	1.77407e-2	3.31452	--	Ammonia

Totals : 3.31452

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   23
Acq. Instrument : Curly                  Location  : Vial 51
Injection Date  : 8/8/2011 9:32:47 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.880	BV	1.85703	1.05975e-2	1.96799e-2		Ammonia

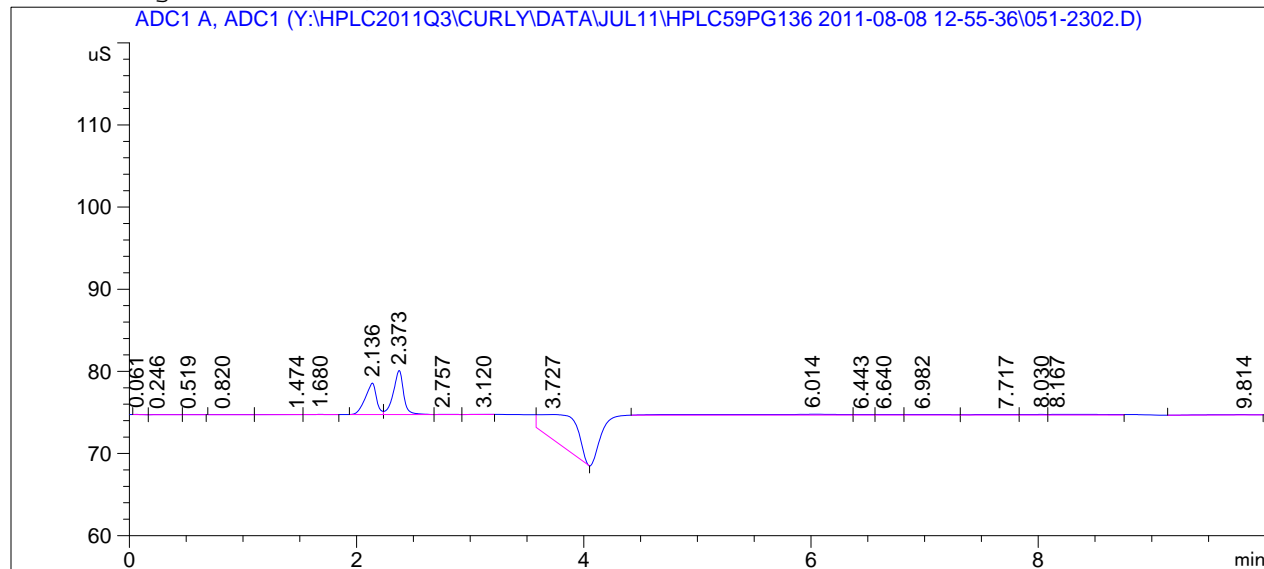
Totals : 1.96799e-2

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   23
Acq. Instrument : Curly                  Location  : Vial 51
Injection Date  : 8/8/2011 9:44:30 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: ADC1 A, ADC1

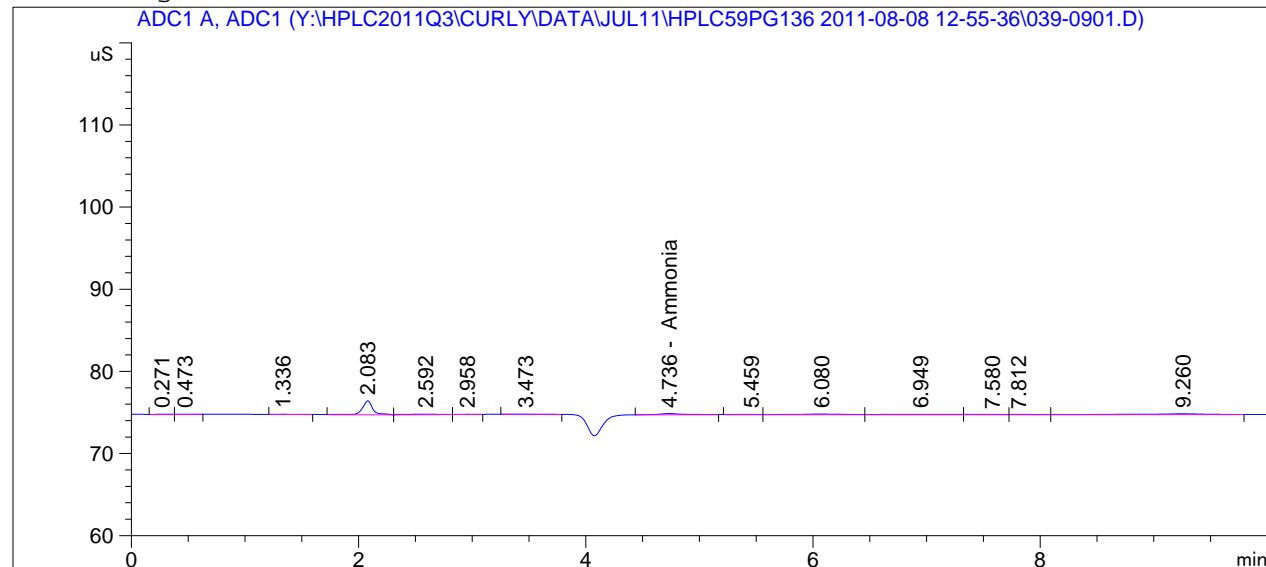
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.748	-	-	-	-	-	Ammonia

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : EO                      Seq. Line :    9
Acq. Instrument : Curly                  Location  : Vial 39
Injection Date  : 8/8/2011 4:04:36 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

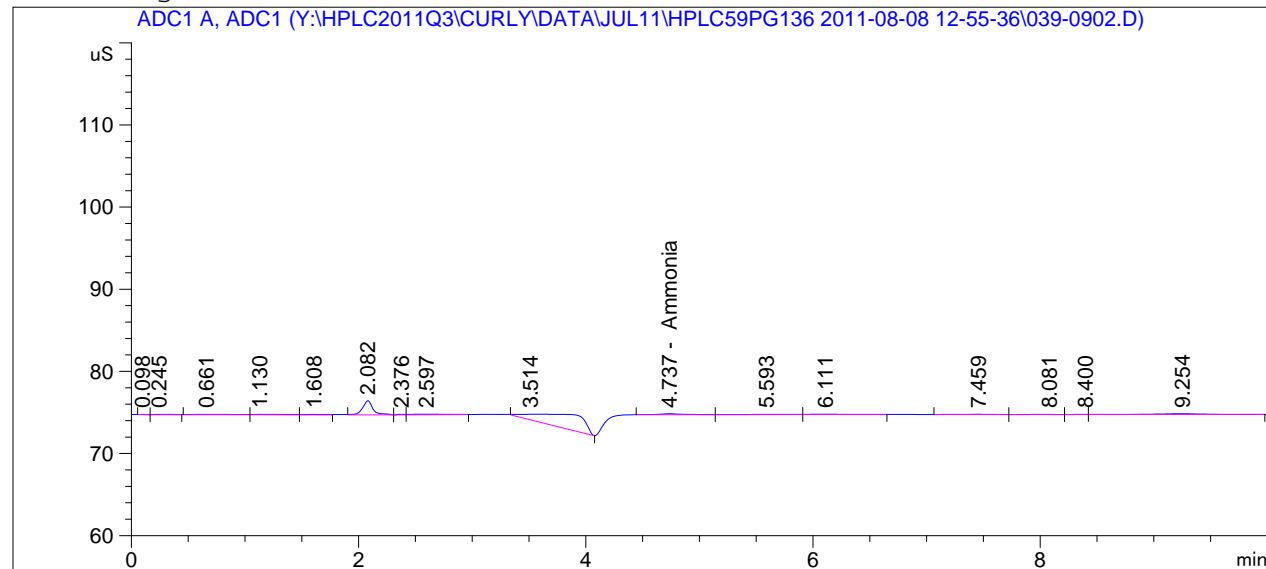
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.736	BB	2.54180	1.05975e-2	2.69368e-2		Ammonia

Totals : 2.69368e-2

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    9
Acq. Instrument : Curly                  Location  : Vial 39
Injection Date  : 8/8/2011 4:16:21 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

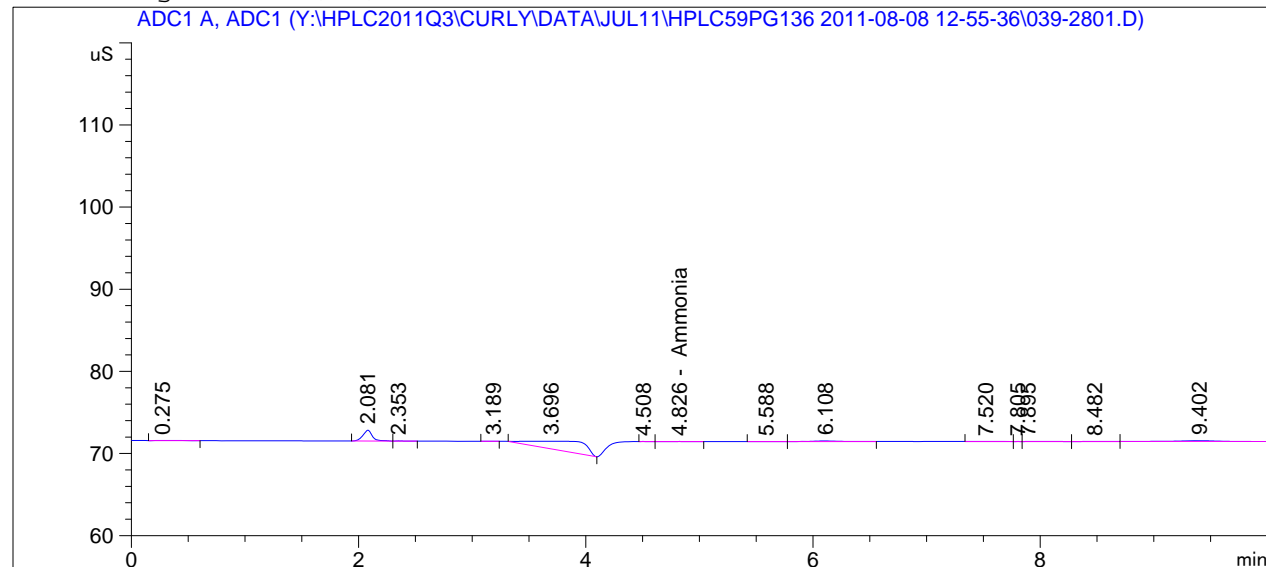
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.737	BV	1.79485	1.05975e-2	1.90210e-2	--	Ammonia

Totals : 1.90210e-2

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   28
Acq. Instrument : Curly                   Location  : Vial 39
Injection Date  : 8/9/2011 10:08:01 AM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.826	VB	1.98194e-1	1.05975e-2	2.10036e-3		Ammonia

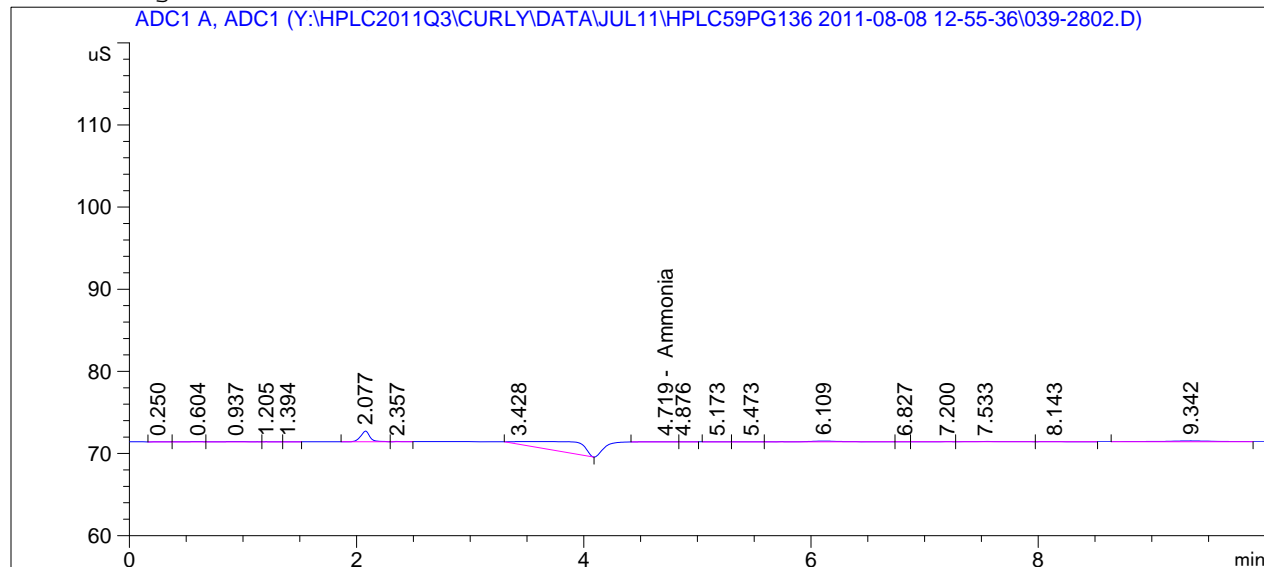
Totals : 2.10036e-3

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   28
Acq. Instrument : Curly                   Location  : Vial 39
Injection Date  : 8/9/2011 10:19:43 AM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By       :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:     :      1.0000
Dilution:       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

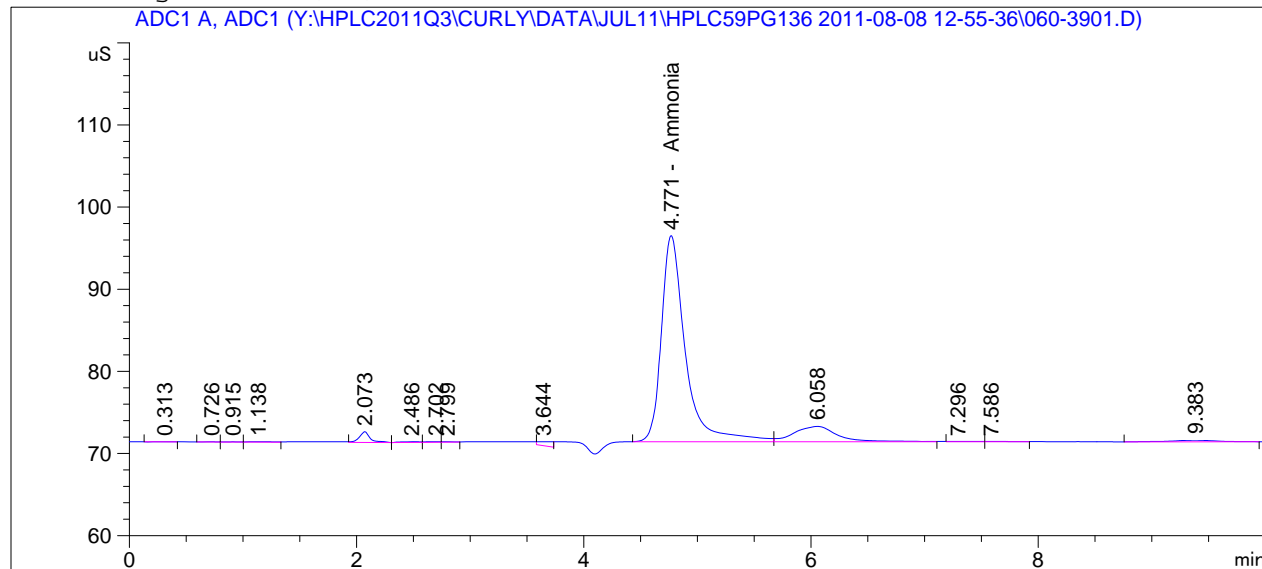
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.719	BV	4.41015e-1	1.05975e-2	4.67367e-3		Ammonia

Totals : 4.67367e-3

*** End of Report ***


```
=====
Acq. Operator   : EO                      Seq. Line :   39
Acq. Instrument : Curly                  Location  : Vial 60
Injection Date  : 8/9/2011 2:43:18 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

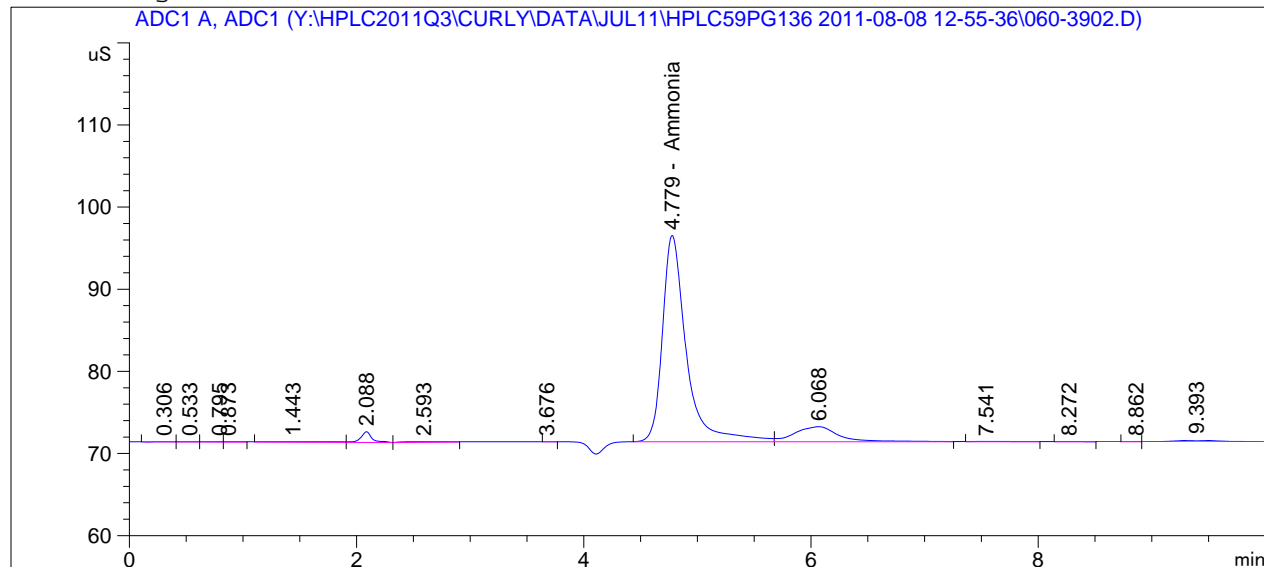
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.771	BV	368.07147	1.99527e-2	7.34403	--	Ammonia

Totals : 7.34403

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   39
Acq. Instrument : Curly                  Location  : Vial 60
Injection Date  : 8/9/2011 2:55:05 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

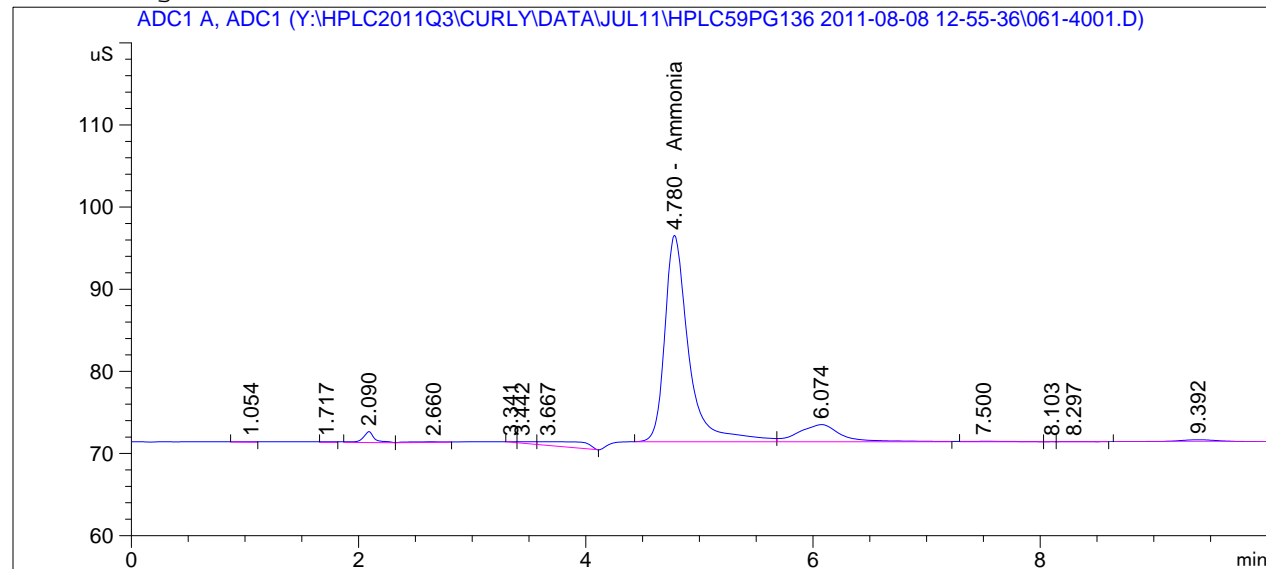
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.779	BV	366.73639	1.99348e-2	7.31083		Ammonia

Totals : 7.31083

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   40
Acq. Instrument : Curly                  Location  : Vial 61
Injection Date  : 8/9/2011 3:06:46 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.780	BV	367.24985	1.99417e-2	7.32359	--	Ammonia

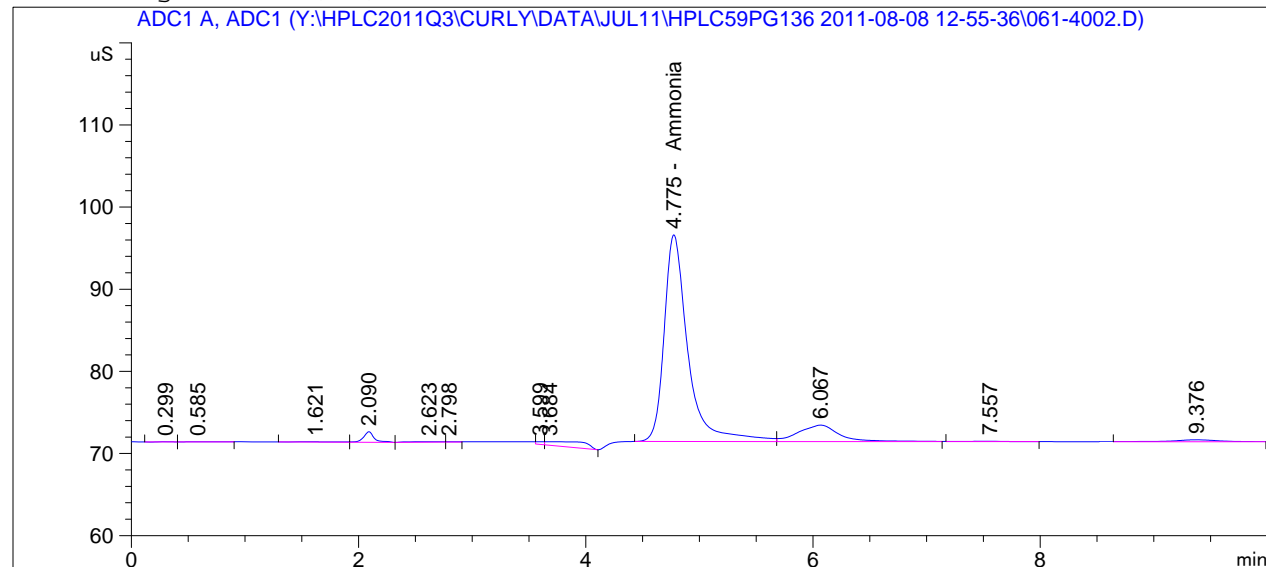
Totals : 7.32359

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   40
Acq. Instrument : Curly                  Location  : Vial 61
Injection Date  : 8/9/2011 3:18:29 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed     : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.775	BV	366.33252	1.99294e-2	7.30079		Ammonia

Totals : 7.30079

*** End of Report ***

Calibration Curve Chromatograms

```

=====
                        Calibration Table
=====

```

Calib. Data Modified : Wednesday, August 10, 2011 8:46:26 AM

Rel. Reference Window : 20.000 %
 Abs. Reference Window : 0.000 min
 Rel. Non-ref. Window : 20.000 %
 Abs. Non-ref. Window : 0.000 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Quadratic
 Origin : Connected
 Weight : Linear (Resp)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: ADC1 A, ADC1

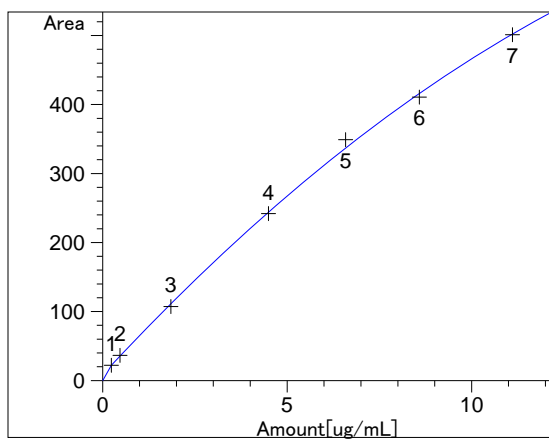
RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
4.748	1 1	2.35000e-1	22.12047	1.06236e-2	Ammonia
	2	4.70000e-1	36.60370	1.28402e-2	
	3	1.85100	107.31789	1.72478e-2	
	4	4.49500	241.86337	1.85849e-2	
	5	6.58600	349.19635	1.88604e-2	
	6	8.58200	410.72517	2.08948e-2	
	7	11.10600	501.11481	2.21626e-2	

```

=====
                        Peak Sum Table
=====

```

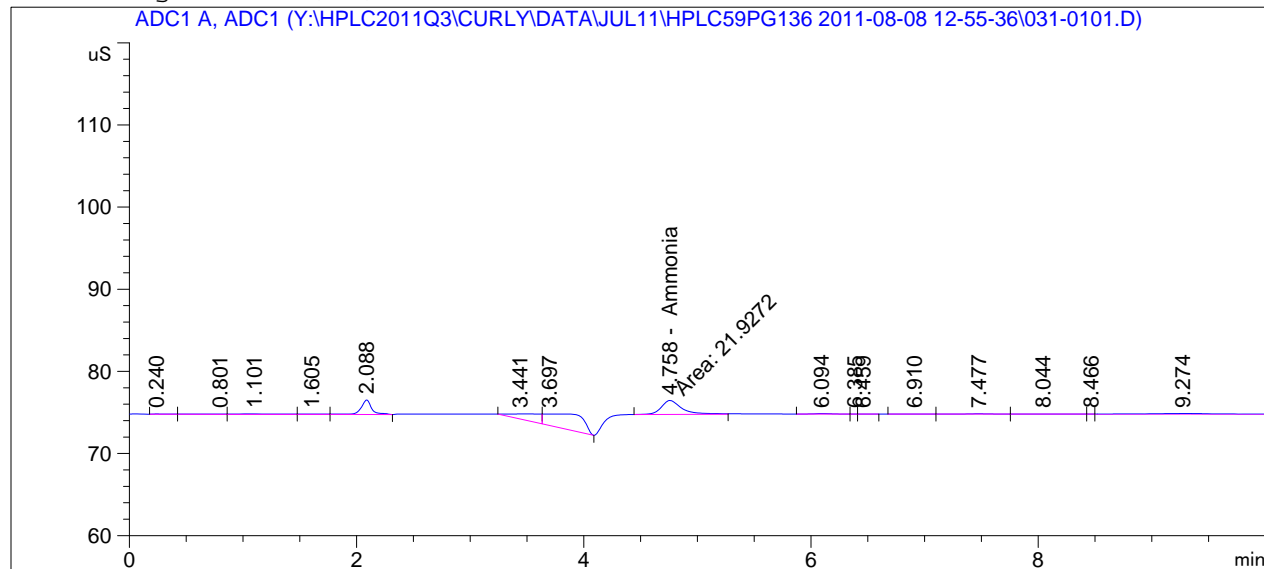
No Entries in table

=====
Calibration Curves
=====

Ammonia at exp. RT: 4.748
ADC1 A, ADC1
Correlation: 0.99969
Residual Std. Dev.: 6.34392
Formula: $y = ax^2 + bx + c$
a: -1.19425
b: 57.70717
c: 8.67976
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.604323
Level 3 : 0.206121
Level 4 : 0.091459
Level 5 : 0.063347
Level 6 : 0.053857
Level 7 : 0.044143

=====

```
=====
Acq. Operator   : EO                      Seq. Line :    1
Acq. Instrument : Curly                  Location  : Vial 31
Injection Date  : 8/8/2011 12:57:17 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

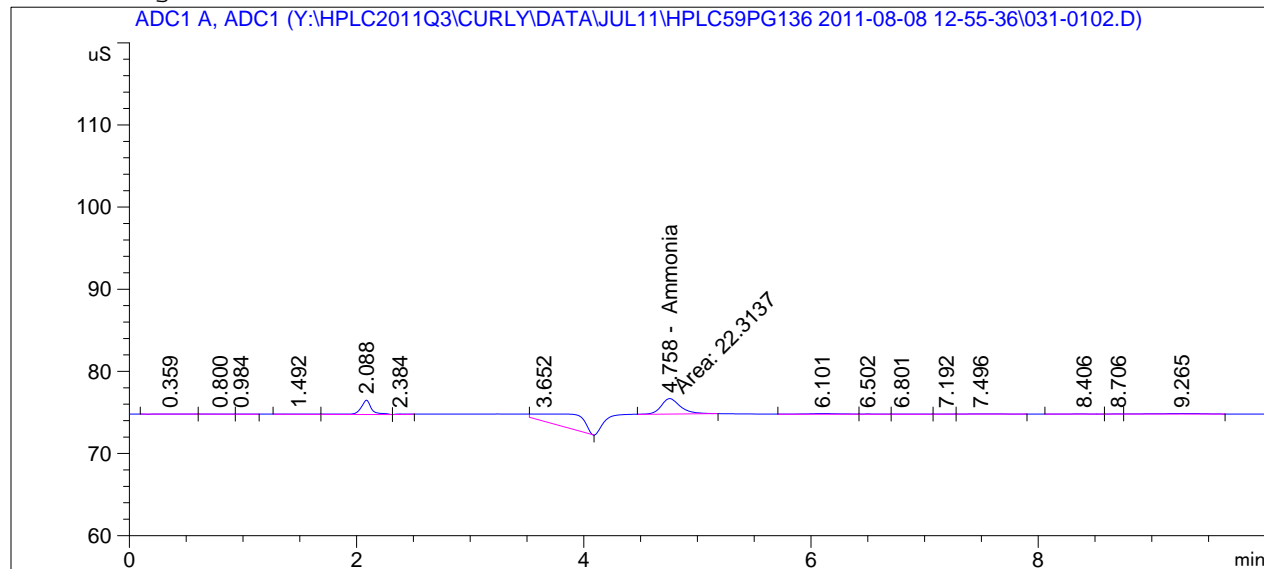
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.758	MM	21.92719	1.05975e-2	2.32374e-1		Ammonia

Manual Int. "IP" (EO)

Totals : 2.32374e-1

*** End of Report ***


```
=====
Acq. Operator   : EO                      Seq. Line :    1
Acq. Instrument : Curly                   Location  : Vial 31
Injection Date  : 8/8/2011 1:08:58 PM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

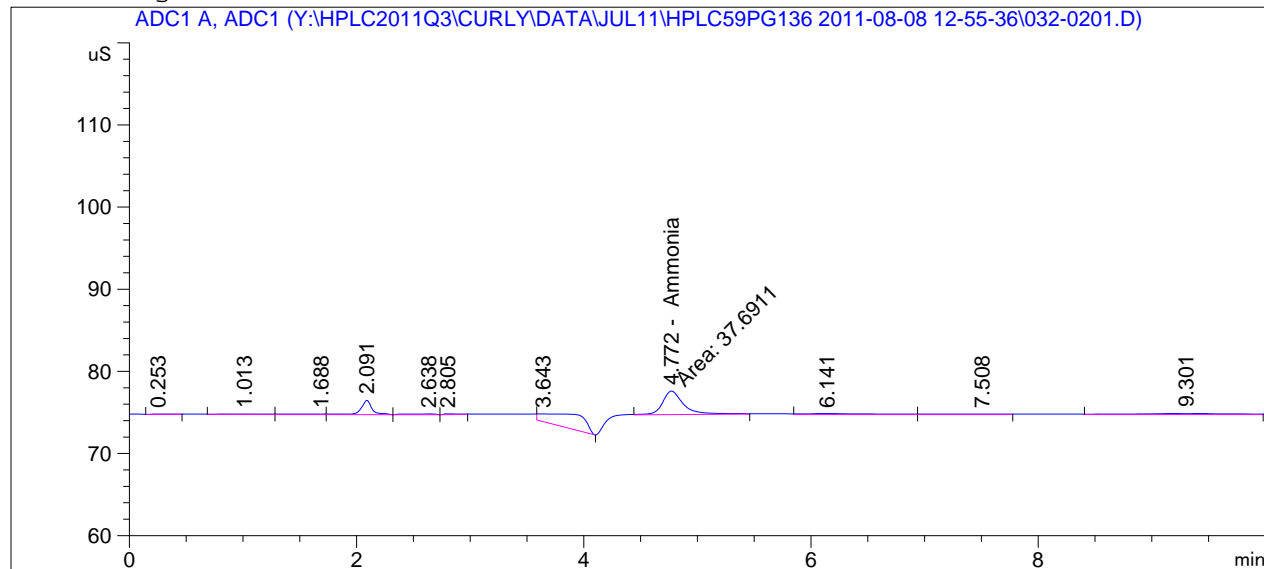
```
=====
Sorted By       :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.758	MM	22.31375	1.06404e-2	2.37428e-1		Ammonia
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Manual Int. "IP" (EO)</div>						
Totals :			2.37428e-1			

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    2
Acq. Instrument : Curly                   Location  : Vial 32
Injection Date  : 8/8/2011 1:20:39 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

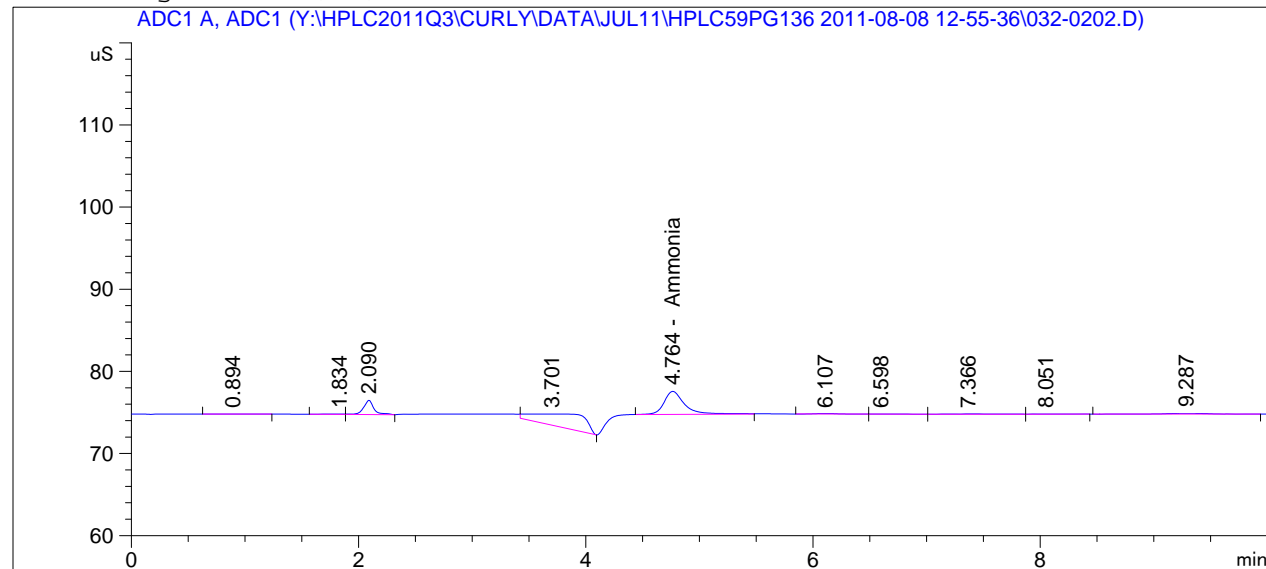
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.772	MM	37.69110	1.34800e-2	5.08076e-1	--	Ammonia

Manual Int. "I" (EO)

Totals : 5.08076e-1

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    2
Acq. Instrument : Curly                  Location  : Vial 32
Injection Date  : 8/8/2011 1:32:21 PM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

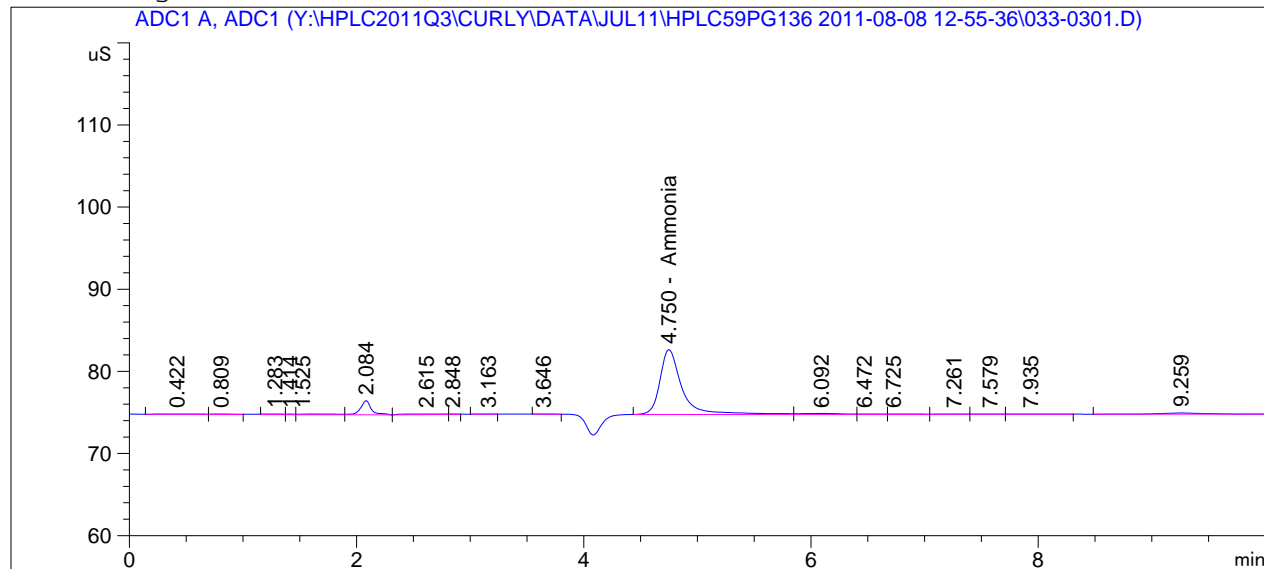
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.764	BB	35.51630	1.32224e-2	4.69611e-1	--	Ammonia

Totals : 4.69611e-1

```
=====
                        *** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :    3
Acq. Instrument : Curly                   Location  : Vial 33
Injection Date  : 8/8/2011 1:44:05 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

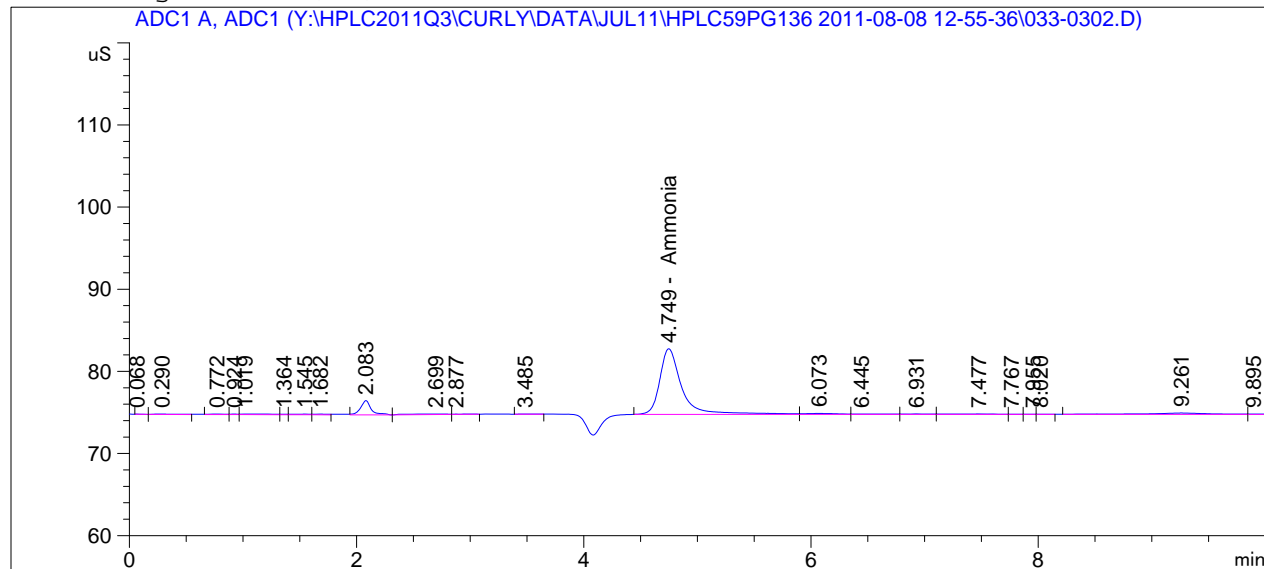
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.750	BB	106.38990	1.65157e-2	1.75710	--	Ammonia

Totals : 1.75710

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    3
Acq. Instrument : Curly                  Location  : Vial 33
Injection Date  : 8/8/2011 1:55:47 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

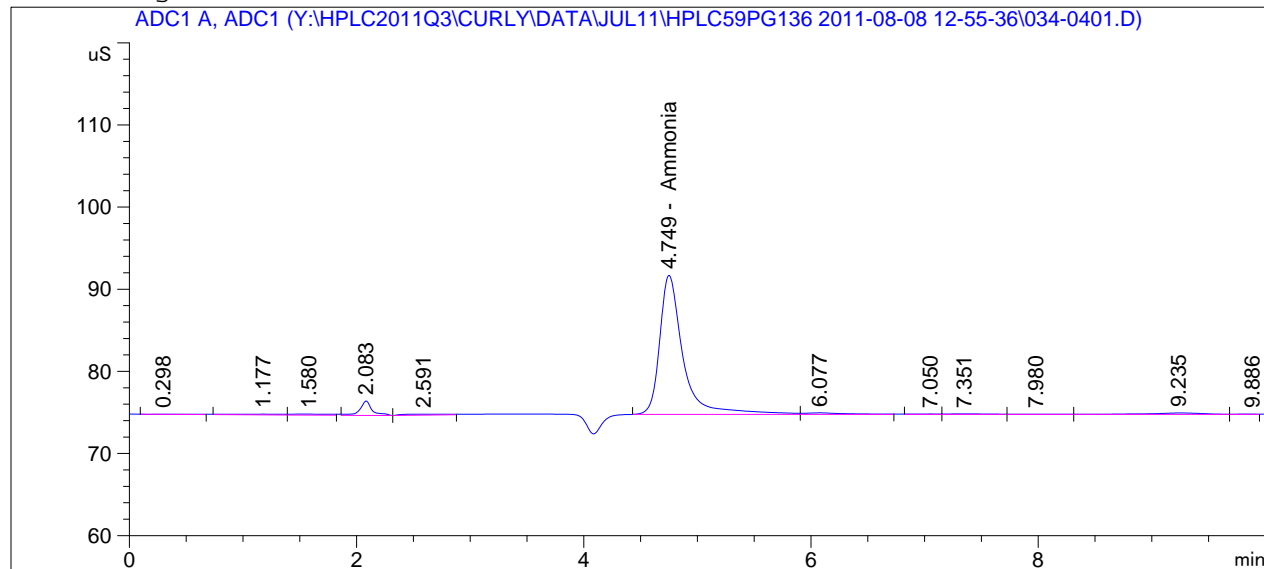
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.749	BV	108.24587	1.65532e-2	1.79181		Ammonia

Totals : 1.79181

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    4
Acq. Instrument : Curly                  Location  : Vial 34
Injection Date  : 8/8/2011 2:07:29 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

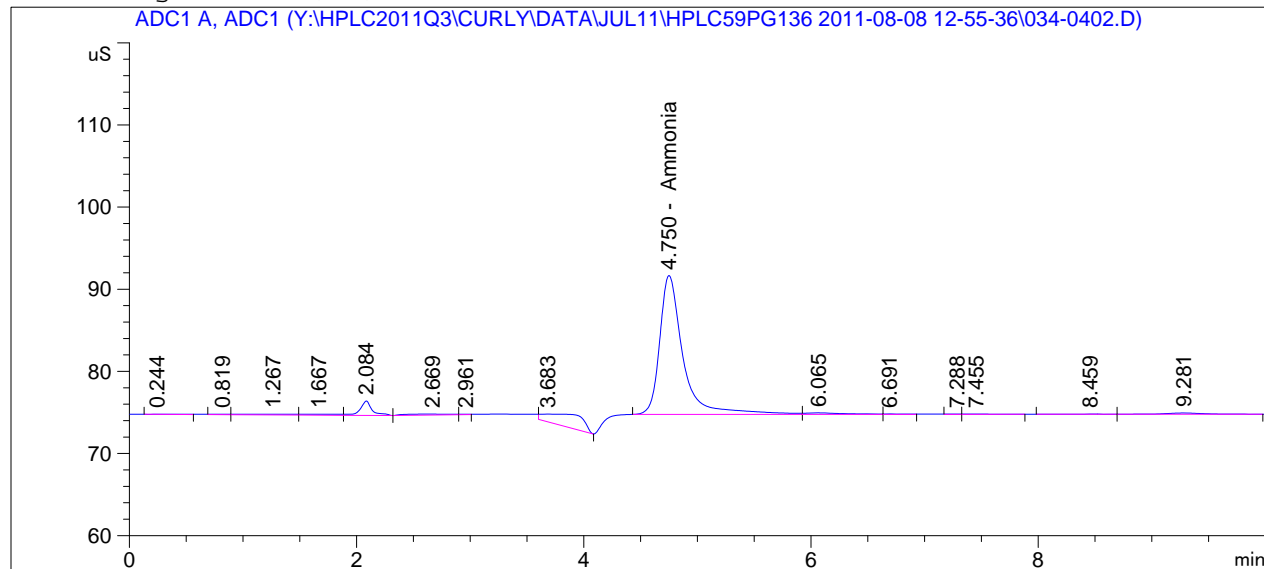
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.749	BV	242.49477	1.84094e-2	4.46418	--	Ammonia

Totals : 4.46418

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :    4
Acq. Instrument : Curly                  Location  : Vial 34
Injection Date  : 8/8/2011 2:19:11 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
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                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

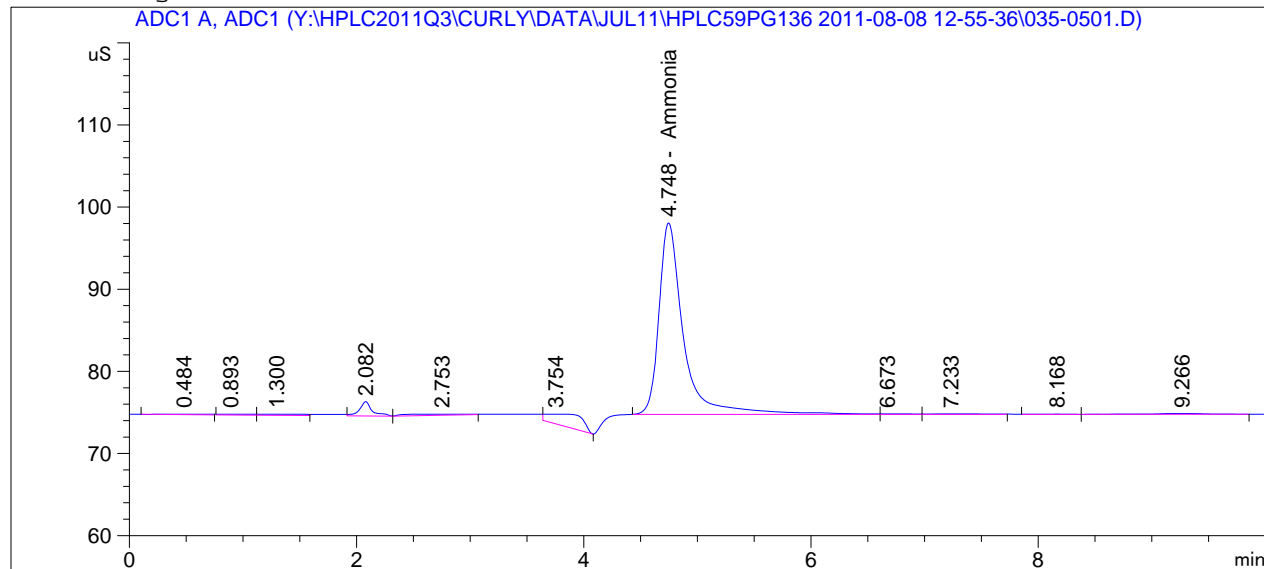
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.750	BB	241.23198	1.83946e-2	4.43735	--	Ammonia

Totals : 4.43735

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :    5
Acq. Instrument : Curly                   Location  : Vial 35
Injection Date  : 8/8/2011 2:30:52 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

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=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.748	BB	351.74533	1.97369e-2	6.94236	--	Ammonia

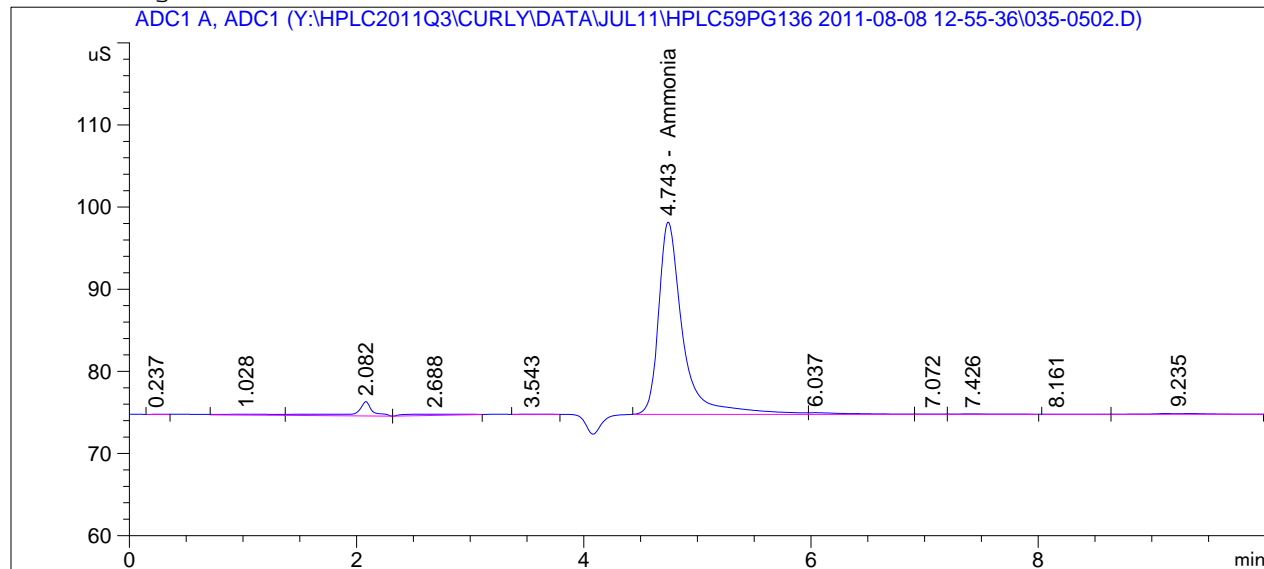
Totals : 6.94236

*** End of Report ***


```

=====
Acq. Operator   : EO                      Seq. Line :    5
Acq. Instrument : Curly                  Location  : Vial 35
Injection Date  : 8/8/2011 2:42:35 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

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=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

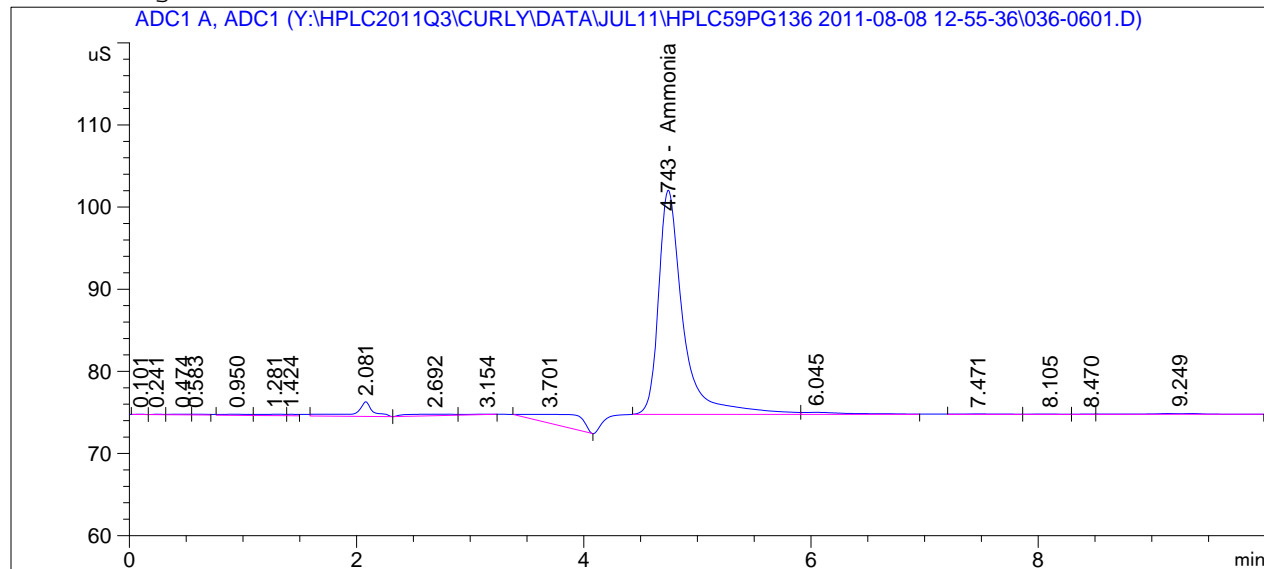
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.743	BB	346.64737	1.96708e-2	6.81884		Ammonia

Totals : 6.81884

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    6
Acq. Instrument : Curly                   Location  : Vial 36
Injection Date  : 8/8/2011 2:54:19 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



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=====
                        External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

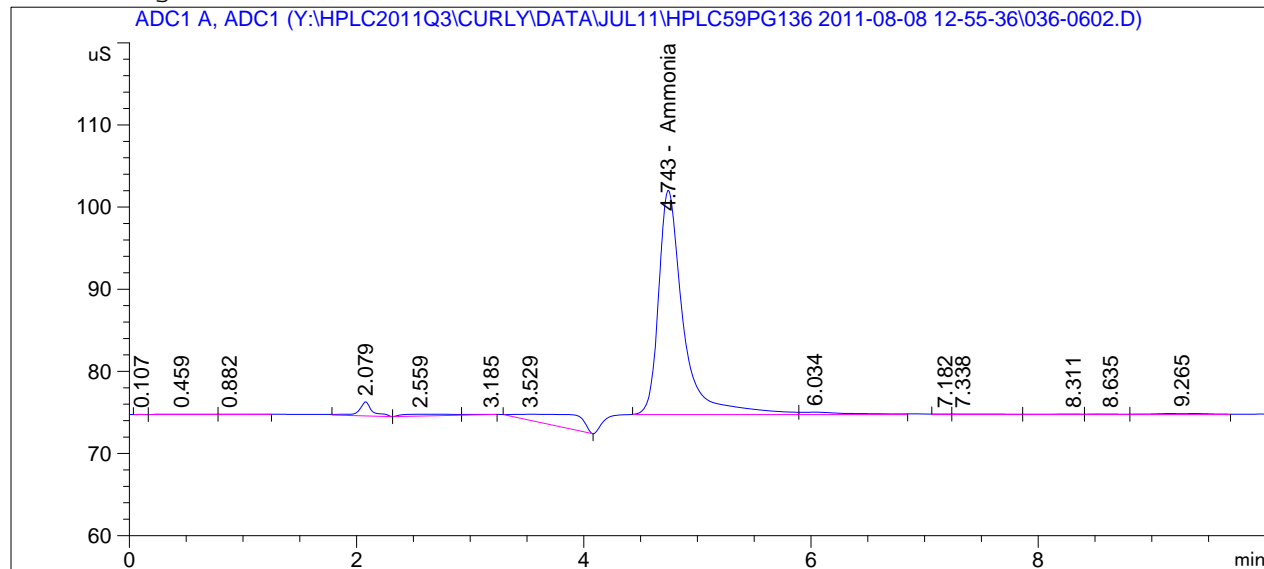
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.743	BV	409.93906	2.05418e-2	8.42088	--	Ammonia

Totals : 8.42088

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :    6
Acq. Instrument : Curly                  Location  : Vial 36
Injection Date  : 8/8/2011 3:06:01 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



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=====
                        External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.743	BV	411.51129	2.05651e-2	8.46275	--	Ammonia

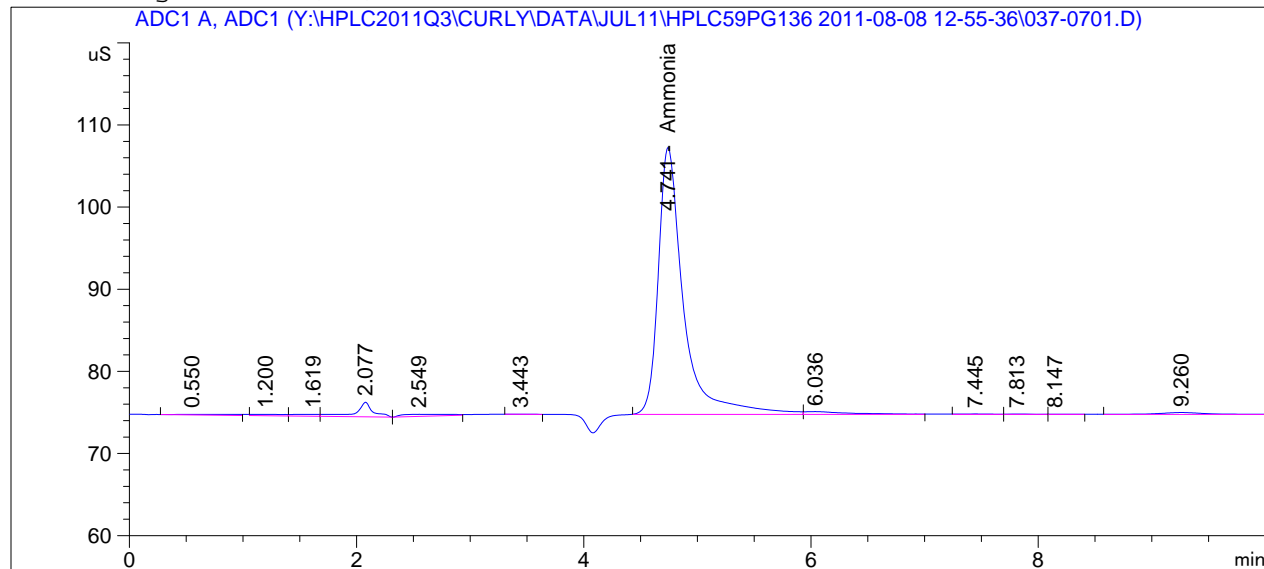
Totals : 8.46275

```
=====
                        *** End of Report ***
=====
```

```

=====
Acq. Operator   : EO                      Seq. Line :    7
Acq. Instrument : Curly                  Location  : Vial 37
Injection Date  : 8/8/2011 3:17:42 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed     : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

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=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

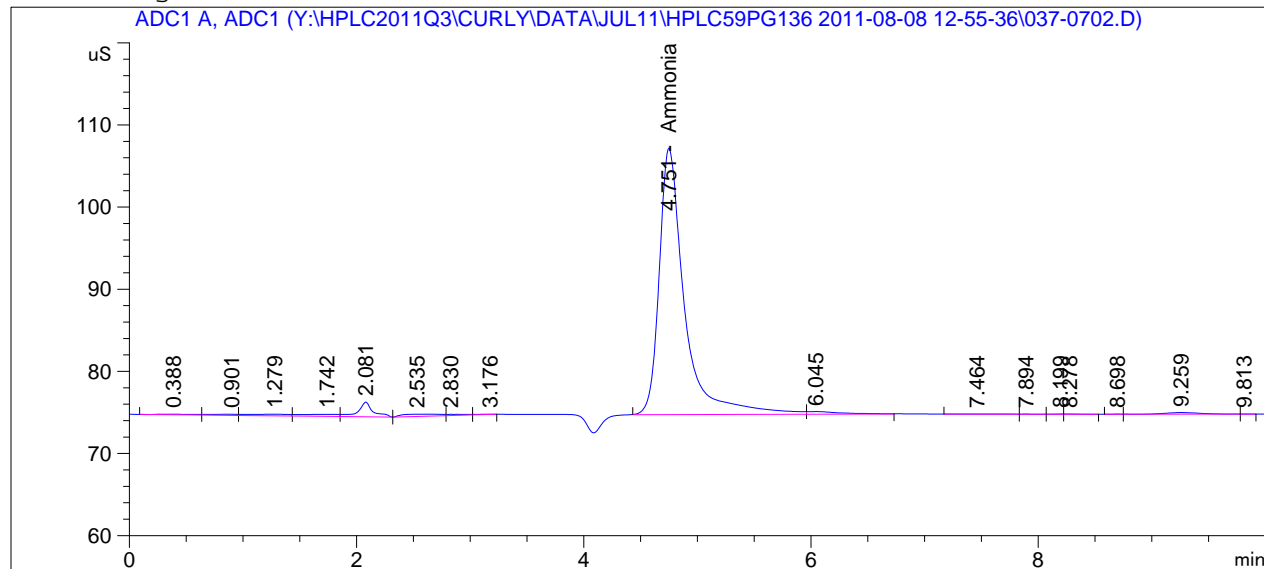
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.741	BV	500.72336	2.20808e-2	11.05640		Ammonia

Totals : 11.05640

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    7
Acq. Instrument : Curly                  Location  : Vial 37
Injection Date  : 8/8/2011 3:29:26 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

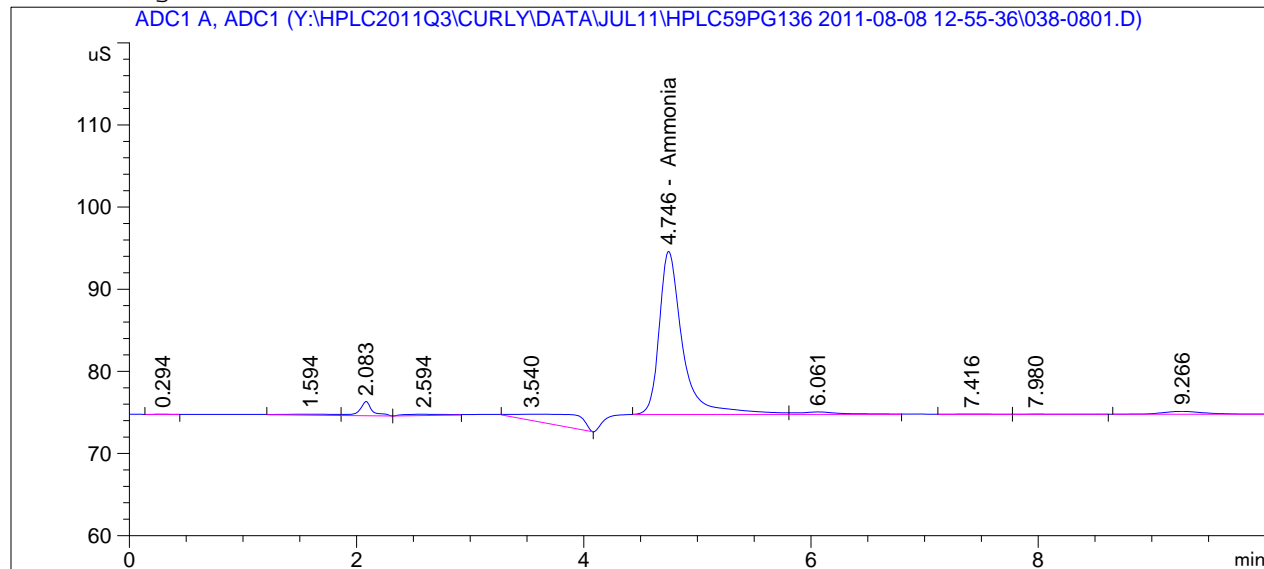
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.751	BV	501.50626	2.20963e-2	11.08143		Ammonia

Totals : 11.08143

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :    8
Acq. Instrument : Curly                  Location  : Vial 38
Injection Date  : 8/8/2011 3:41:11 PM      Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.746	BV	284.28400	1.89017e-2	5.37346	--	Ammonia

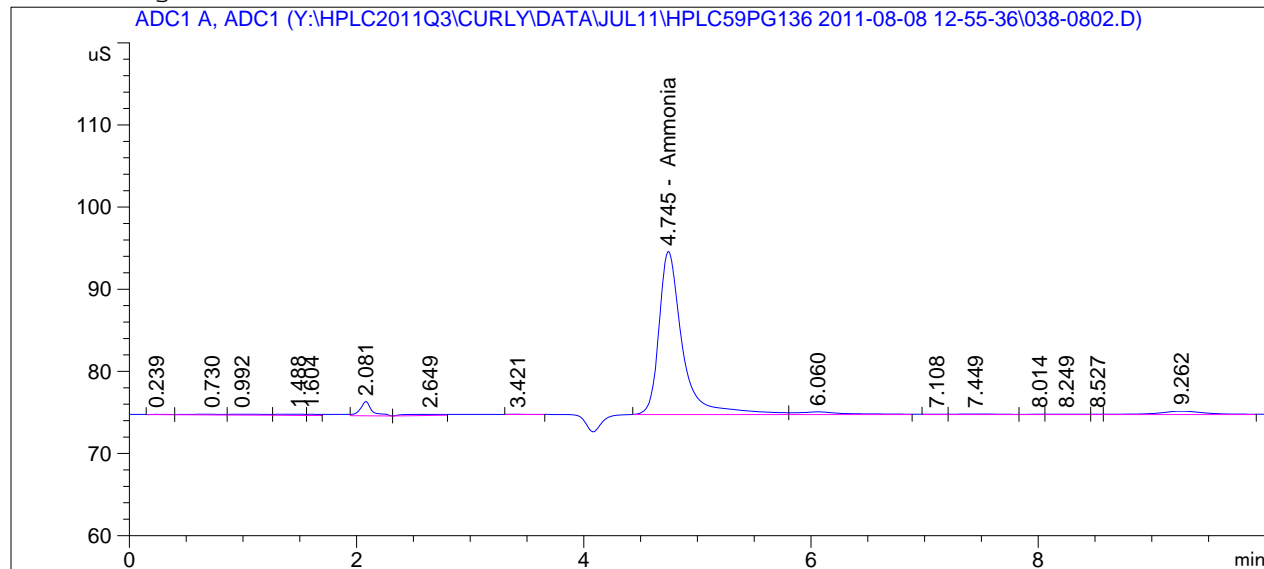
Totals : 5.37346

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :    8
Acq. Instrument : Curly                  Location  : Vial 38
Injection Date  : 8/8/2011 3:52:55 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

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=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

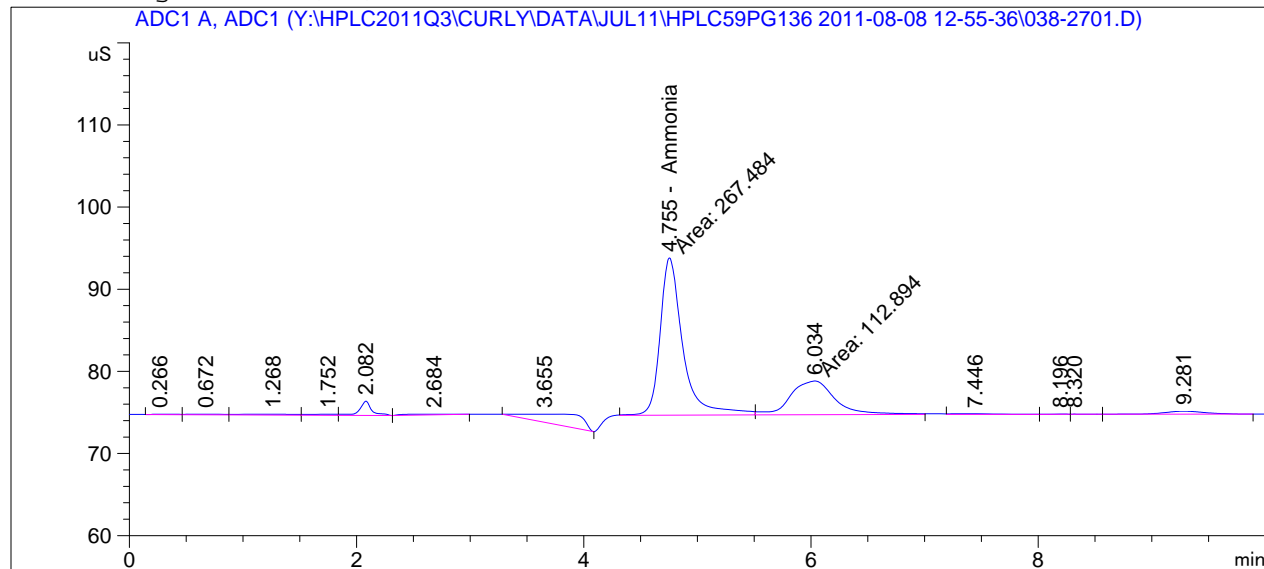
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.745	BV	285.19211	1.89125e-2	5.39371		Ammonia

Totals : 5.39371

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   27
Acq. Instrument : Curly                  Location  : Vial 38
Injection Date  : 8/9/2011 9:44:41 AM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

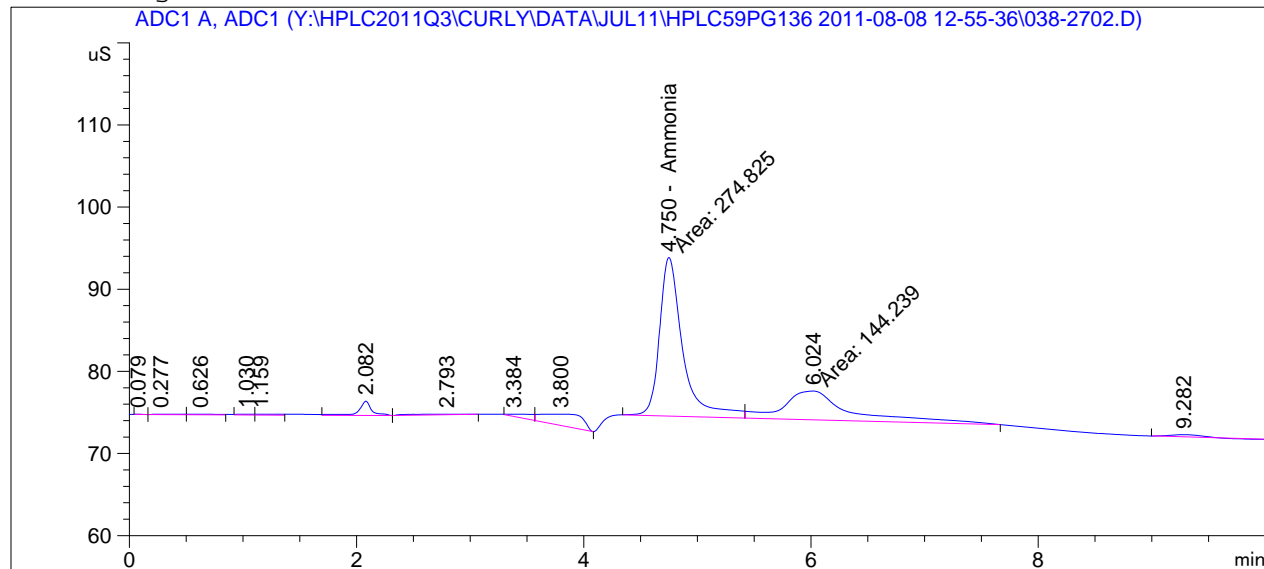
```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.755	MF	267.48370	1.87029e-2	5.00272		Ammonia
<div style="border: 2px solid black; padding: 2px; display: inline-block;">Manual Int. "I" (EO)</div>						
Totals :				5.00272		

*** End of Report ***


```
=====
Acq. Operator   : EO                      Seq. Line :   27
Acq. Instrument : Curly                   Location  : Vial 38
Injection Date  : 8/9/2011 9:56:22 AM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.750	MF	274.82480	1.87895e-2	5.16383	--	Ammonia

Manual Int. "II" (EO)

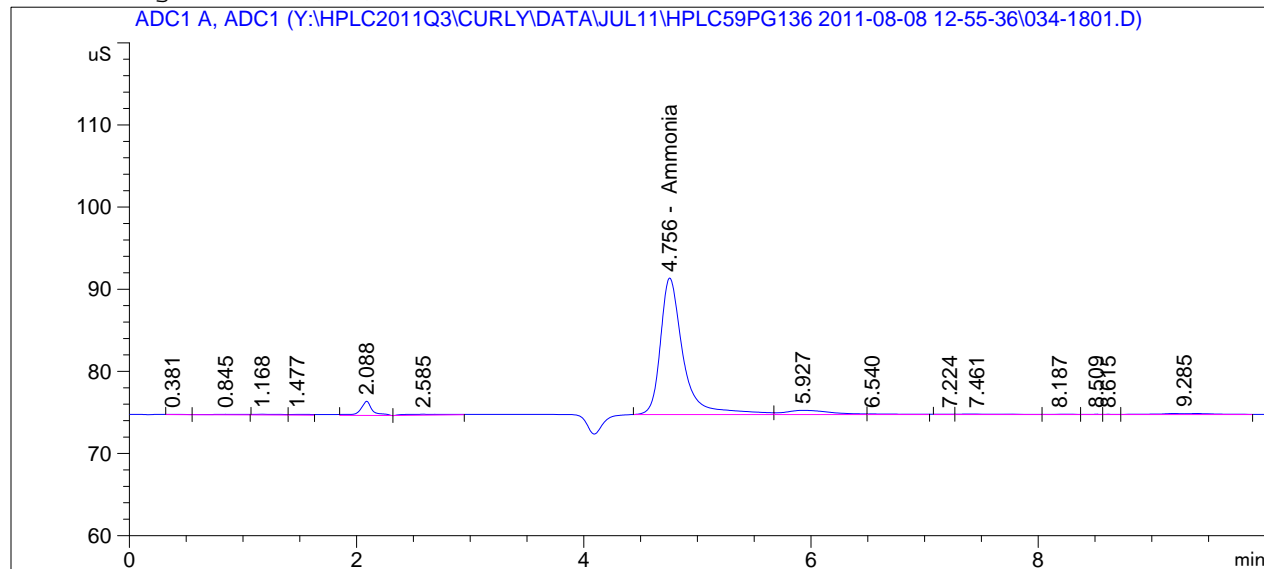
Totals : 5.16383

*** End of Report ***

```

=====
Acq. Operator   : EO                      Seq. Line :   18
Acq. Instrument : Curly                  Location  : Vial 34
Injection Date  : 8/8/2011 7:35:33 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

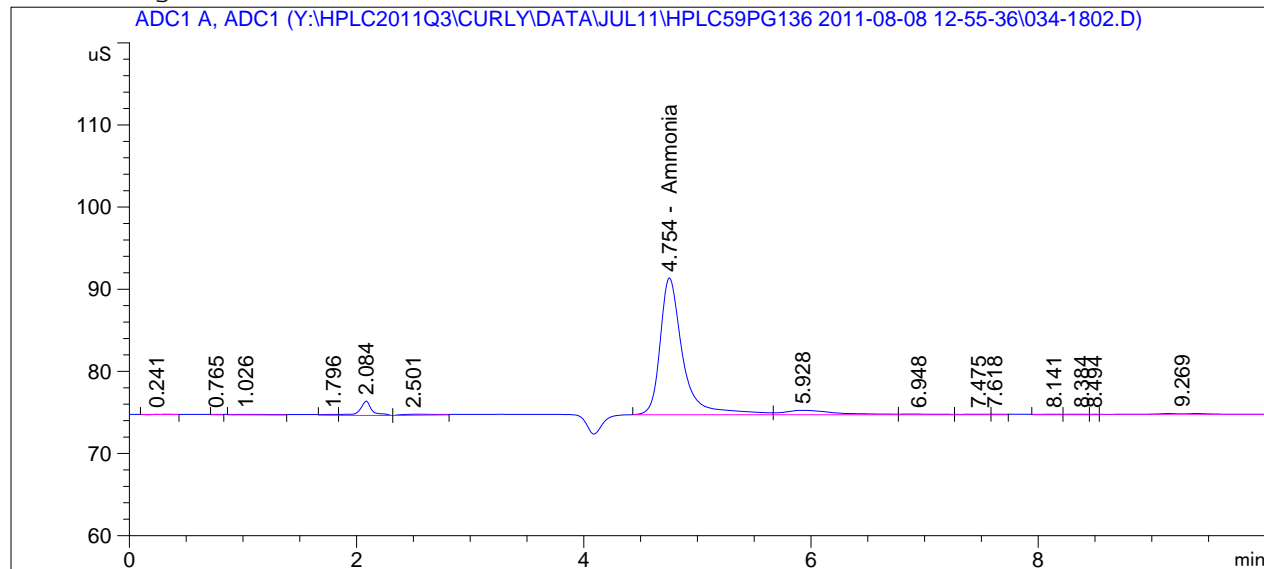
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.756	BV	231.63081	1.82816e-2	4.23459	--	Ammonia

Totals : 4.23459

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   18
Acq. Instrument : Curly                  Location  : Vial 34
Injection Date  : 8/8/2011 7:47:16 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

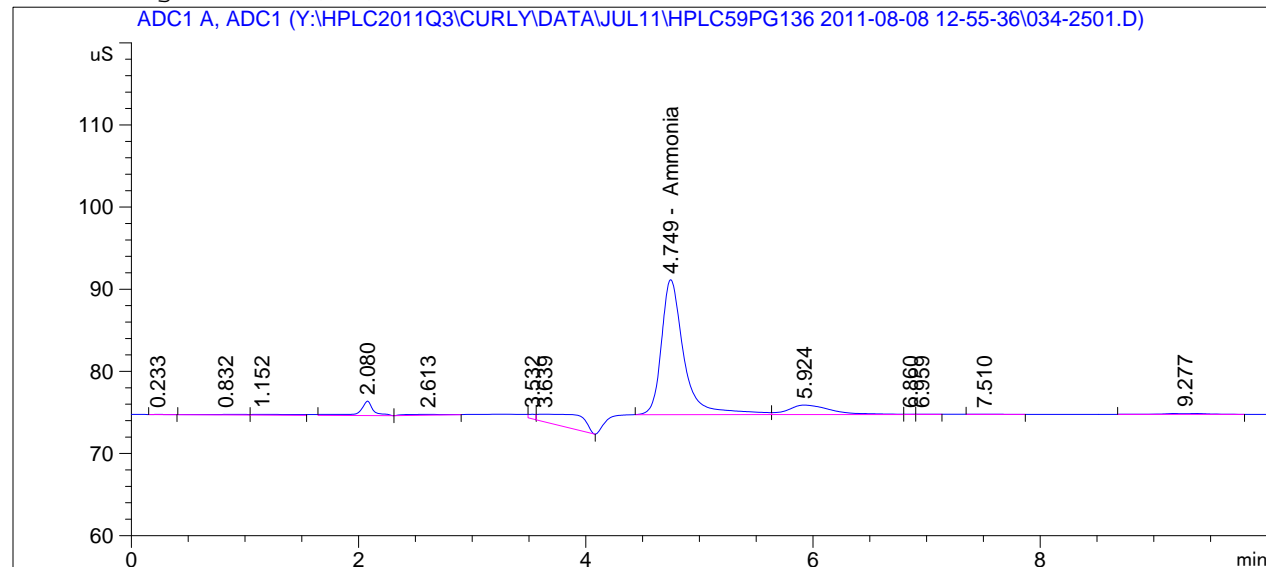
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.754	BV	230.91515	1.82732e-2	4.21956	--	Ammonia

Totals : 4.21956

```
=====
                        *** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   25
Acq. Instrument : Curly                   Location  : Vial 34
Injection Date  : 8/8/2011 11:30:02 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

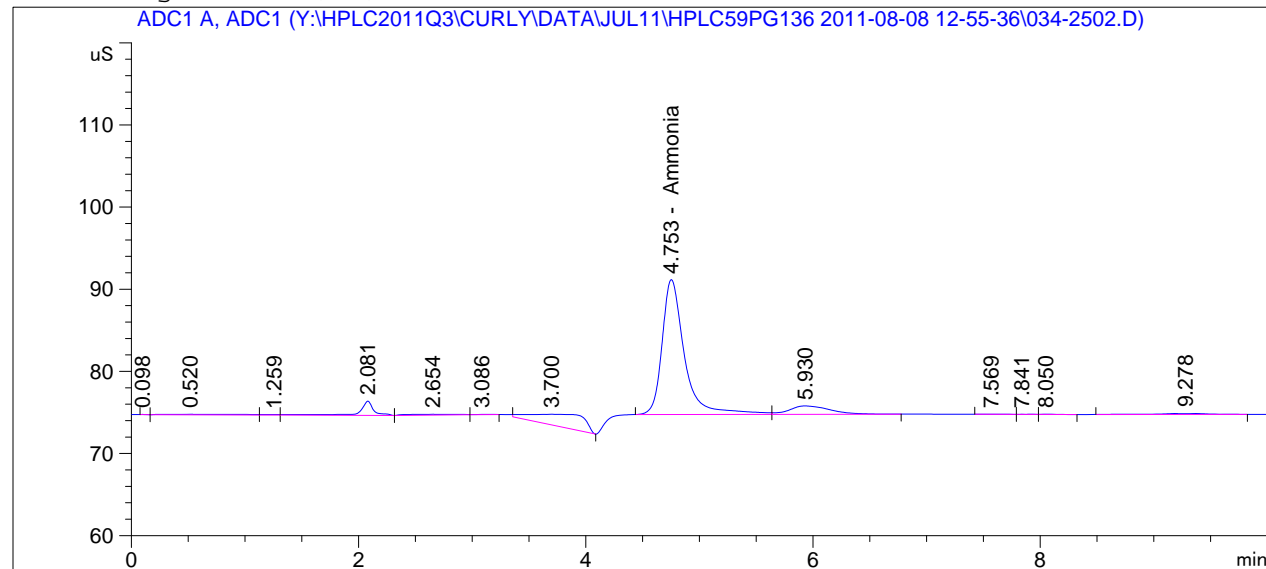
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.749	BV	226.08189	1.82161e-2	4.11833	--	Ammonia

Totals : 4.11833

```
=====
                        *** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   25
Acq. Instrument : Curly                   Location  : Vial 34
Injection Date  : 8/8/2011 11:41:46 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



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=====
                        External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.753	BV	224.71455	1.81999e-2	4.08979	--	Ammonia

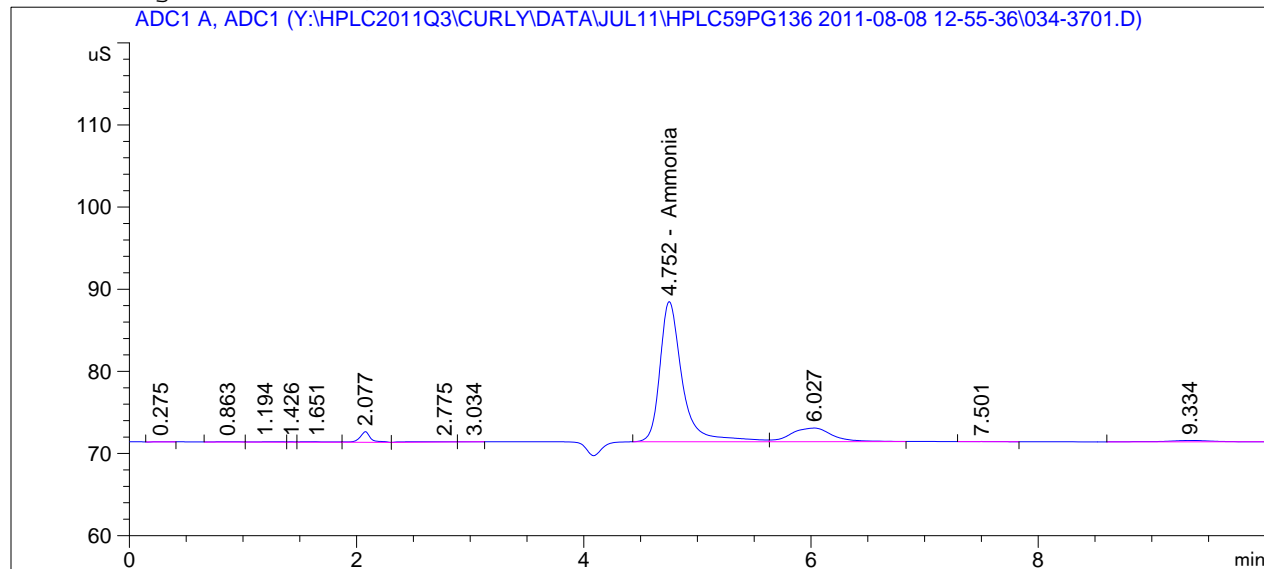
Totals : 4.08979

```
=====
*** End of Report ***
=====
```

```

=====
Acq. Operator   : EO                      Seq. Line :   37
Acq. Instrument : Curly                  Location  : Vial 34
Injection Date  : 8/9/2011 1:56:27 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

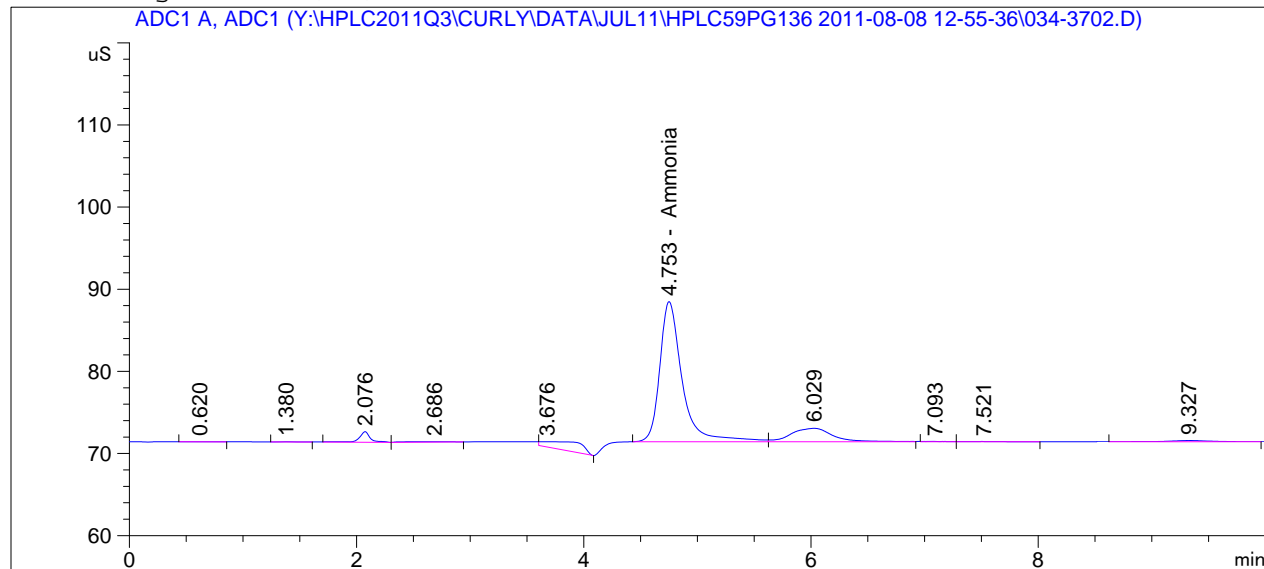
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.752	BV	233.52324	1.83039e-2	4.27439		Ammonia

Totals : 4.27439

*** End of Report ***

```
=====
Acq. Operator   : EO                      Seq. Line :   37
Acq. Instrument : Curly                   Location  : Vial 34
Injection Date  : 8/9/2011 2:08:08 PM      Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



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=====
                        External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

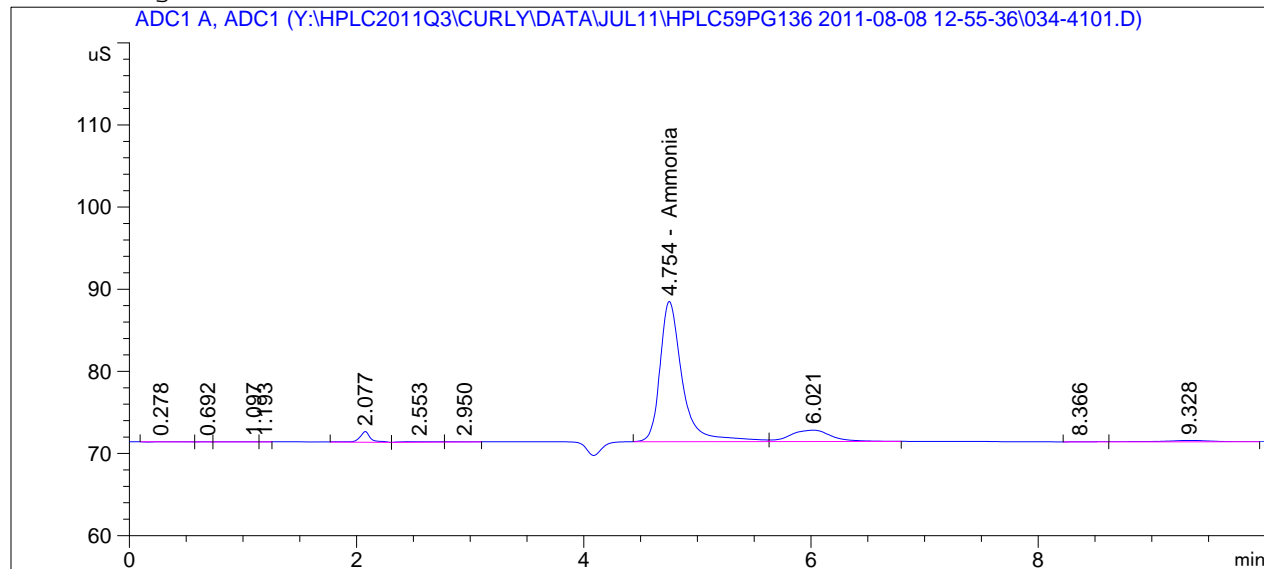
Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.753	BV	234.01398	1.83097e-2	4.28472	--	Ammonia

Totals : 4.28472

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : EO                      Seq. Line :   41
Acq. Instrument : Curly                  Location  : Vial 34
Injection Date  : 8/9/2011 3:30:11 PM    Inj       :    1
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                  AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.754	BV	233.03738	1.82982e-2	4.26416	--	Ammonia

Totals : 4.26416

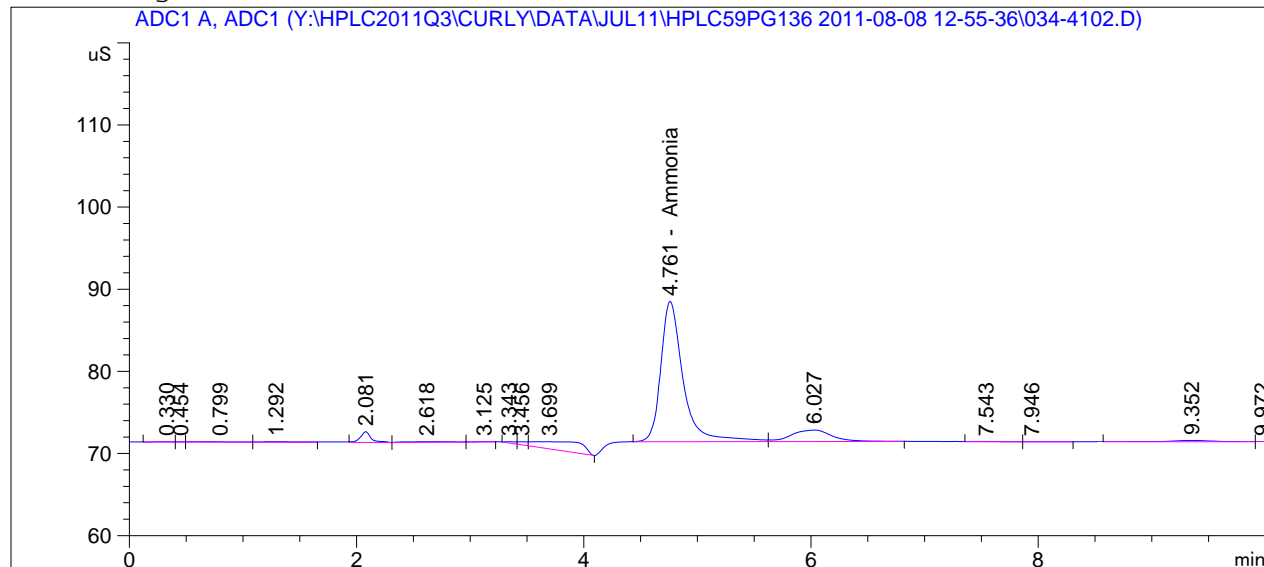
```
=====
                        *** End of Report ***
=====
```



```

=====
Acq. Operator   : EO                      Seq. Line :   41
Acq. Instrument : Curly                  Location  : Vial 34
Injection Date  : 8/9/2011 3:41:52 PM    Inj       :    2
                                           Inj Volume: 25.0 µl
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG136\HPLC59PG136 2011-08-08 12-55-36\
                                           AMMONIA.M
Last changed    : 7/18/2011 11:57:47 AM by EO
Analysis Method : Y:\HPLC2011Q3\CURLY\METHODS\HPLC59PG136.M
Last changed    : 8/10/2011 8:46:30 AM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 10, 2011 8:46:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.761	BV	233.62912	1.83052e-2	4.27662		Ammonia

Totals : 4.27662

*** End of Report ***

Method Information

Method: C:\HPLC2010Q4\CURLY\METHODS\AMMONIA.M
Modified: 2/14/2011 at 4:56:34 PM

Column: Dionex IonPac CS12 (250 mm x 4 mm)
Mobile Phase: 0.02 N MethaneSulfonic Acid
Detection: Suppressed Conductivity
Flow Rate: 1.0 mL/min
Temp: 30C

=====

ANALOG DIGITAL CONVERTER

=====

Signal 1

Description:	Dionex ED40
Source:	Signal
Unit:	uS
Units/Volt:	1000.000
Peakwidth (Data Rate):	0.053 Min (5.00 Hz)
Stop Time:	No Limit
Data Storage:	All

Start Signal Source: External Device Will Start 35900

Timed Event Table:
<no events>

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
1	Vial 31	HPLC59pg136 #1	AMMONIA	2	Sample	
2	Vial 32	HPLC59pg136 #2	AMMONIA	2	Sample	
3	Vial 33	HPLC59pg136 #3	AMMONIA	2	Sample	
4	Vial 34	HPLC59pg136 #4	AMMONIA	2	Sample	
5	Vial 35	HPLC59pg136 #5	AMMONIA	2	Sample	
6	Vial 36	HPLC59pg136 #6	AMMONIA	2	Sample	
7	Vial 37	HPLC59pg136 #7	AMMONIA	2	Sample	
8	Vial 38	HPLC59pg136 #SS	AMMONIA	2	Sample	
9	Vial 39	0.04N H2SO4 RB	AMMONIA	2	Sample	
10	Vial 40	T1R1I1,2 0811-19	AMMONIA	2	Sample	
11	Vial 41	MS T1R1I1,2 0811-19	AMMONIA	2	Sample	
12	Vial 42	MSD T1R1I1,2 0811-1	AMMONIA	2	Sample	
		9				
13	Vial 43	T1R1PW 0811-19	AMMONIA	2	Sample	
14	Vial 44	T1R2I1,2 0811-19	AMMONIA	2	Sample	
15	Vial 45	T1R2PW 0811-19	AMMONIA	2	Sample	
16	Vial 46	T1R3I1,2 0811-19	AMMONIA	2	Sample	
17	Vial 47	T1R3PW 0811-19	AMMONIA	2	Sample	
18	Vial 34	HPLC59pg136 #4	AMMONIA	2	Sample	
19	Vial 35	HPLC59pg136 #5	AMMONIA	2	Sample	
20	Vial 48	T1R0I1,2 0811-19	AMMONIA	2	Sample	
21	Vial 49	T1R0PW 0811-19	AMMONIA	2	Sample	
22	Vial 50	T1R00 DI H2O Blank 0811-19	AMMONIA	2	Sample	
23	Vial 51	T1R00 H2SO4 Blank 811-19	0 AMMONIA	2	Sample	
24	Vial 81	HPLC59pg136 #1	AMMONIA	8	Sample	
25	Vial 34	HPLC59pg136 #4	AMMONIA	2	Sample	
26	Vial 35	HPLC59pg136 #5	AMMONIA	2	Sample	

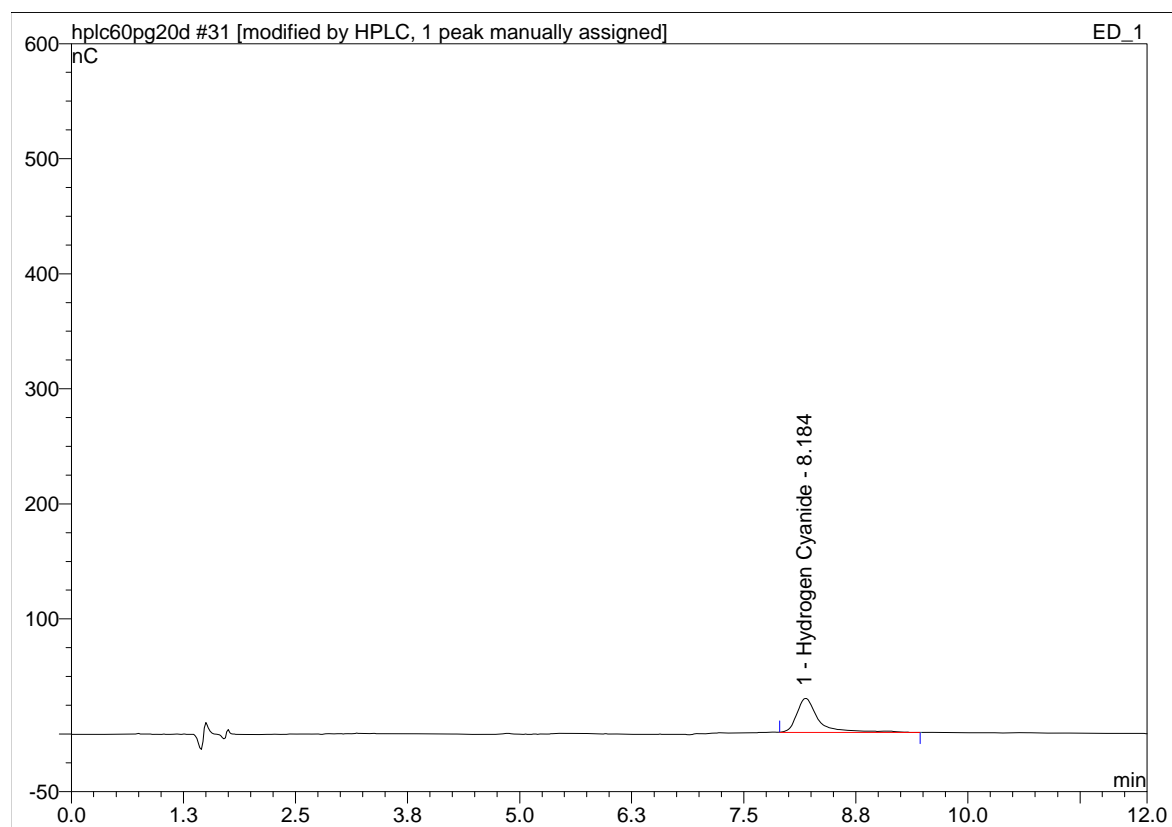
Pace Analytical
FSD 1108-200FHR Pine Bend LLC
Page B-299 of 1576

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
27	Vial 38	HPLC59pg136 #SS	AMMONIA	2	Sample	
28	Vial 39	0.04N H2SO4 RB	AMMONIA	2	Sample	
29	Vial 52	T1R1I1,2 *5 0811-19	AMMONIA	2	Sample	
30	Vial 53	MS T1R1I1,2 *5 0811-19	AMMONIA	2	Sample	
31	Vial 54	MSD T1R1I1,2 *5 0811-19	AMMONIA	2	Sample	
32	Vial 55	T1R2I1,2 *5 0811-19	AMMONIA	2	Sample	
33	Vial 56	T1R3I1,2 *5 0811-19	AMMONIA	2	Sample	
34	Vial 57	T1R0I1,2 0811-19	AMMONIA	2	Sample	
35	Vial 58	T1R00 DI H2O 0811-19	AMMONIA	2	Sample	
36	Vial 59	T1R1I1,2 *10 0811-19	AMMONIA	2	Sample	
37	Vial 34	HPLC59pg136 #4	AMMONIA	2	Sample	
38	Vial 35	HPLC59pg136 #5	AMMONIA	2	Sample	
39	Vial 60	MS T1R1I1,2 *10 0811-19	AMMONIA	2	Sample	
40	Vial 61	MSD T1R1I1,2 *10 0811-19	AMMONIA	2	Sample	
41	Vial 34	HPLC59pg136 #4	AMMONIA	2	Sample	
42	Vial 35	HPLC59pg136 #5	AMMONIA	2	Sample	
43	Vial 82	HPLC59pg136 #1	AMMONIA	8	Sample	
44	Vial 34	HPLC59pg136 #4	AMMONIA	2	Sample	
45	Vial 35	HPLC59pg136 #5	AMMONIA	2	Sample	

Sample Chromatograms

31 T1R2-6N NaOH Imp 1&2*20 0811-19

Injection Name	T1R2-6N NaOH Imp 1&2*20 081	Injection Volume:	100.0
Vial Number:	21	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 10:08		
Run Time (min):	12.00		

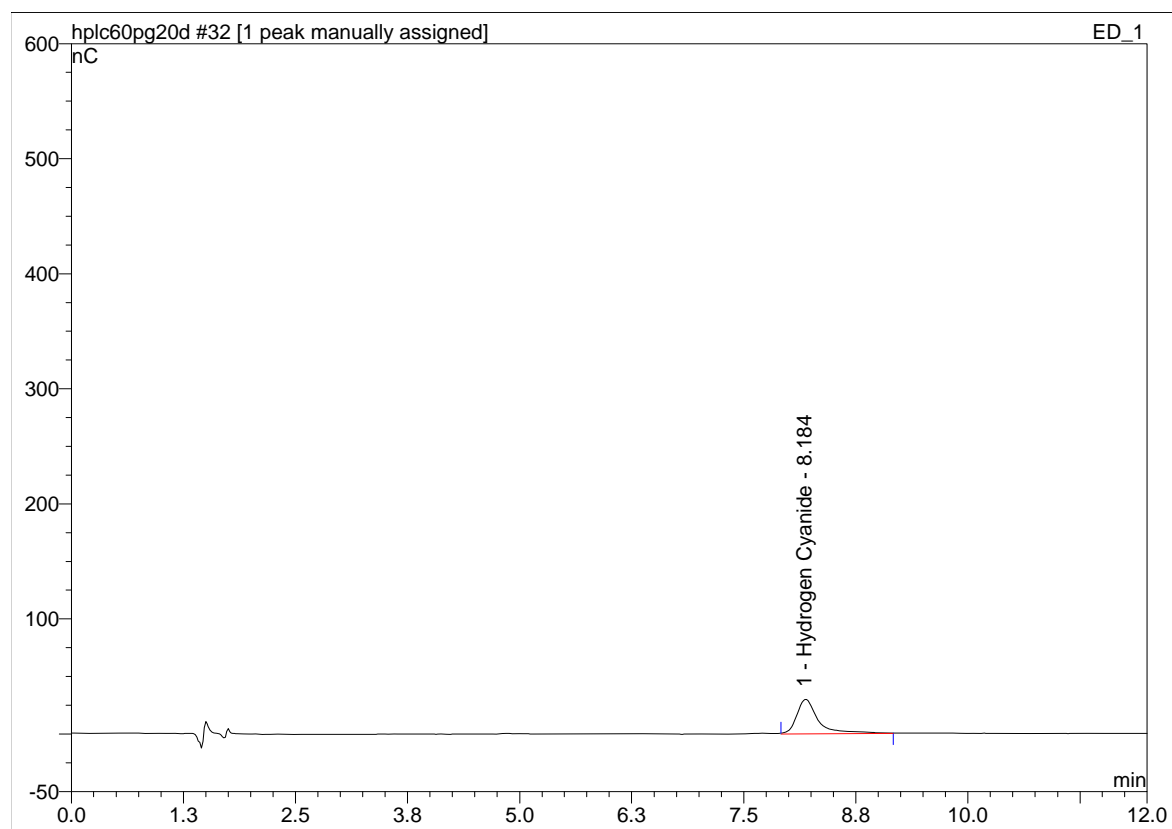


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.18	8.333	100.00	29.473	0.2742

* * * End of Report * * *

32 T1R2-6N NaOH Imp 1&2*20 0811-19

Injection Name	T1R2-6N NaOH Imp 1&2*20 081	Injection Volume:	100.0
Vial Number:	21	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 10:25		
Run Time (min):	12.00		

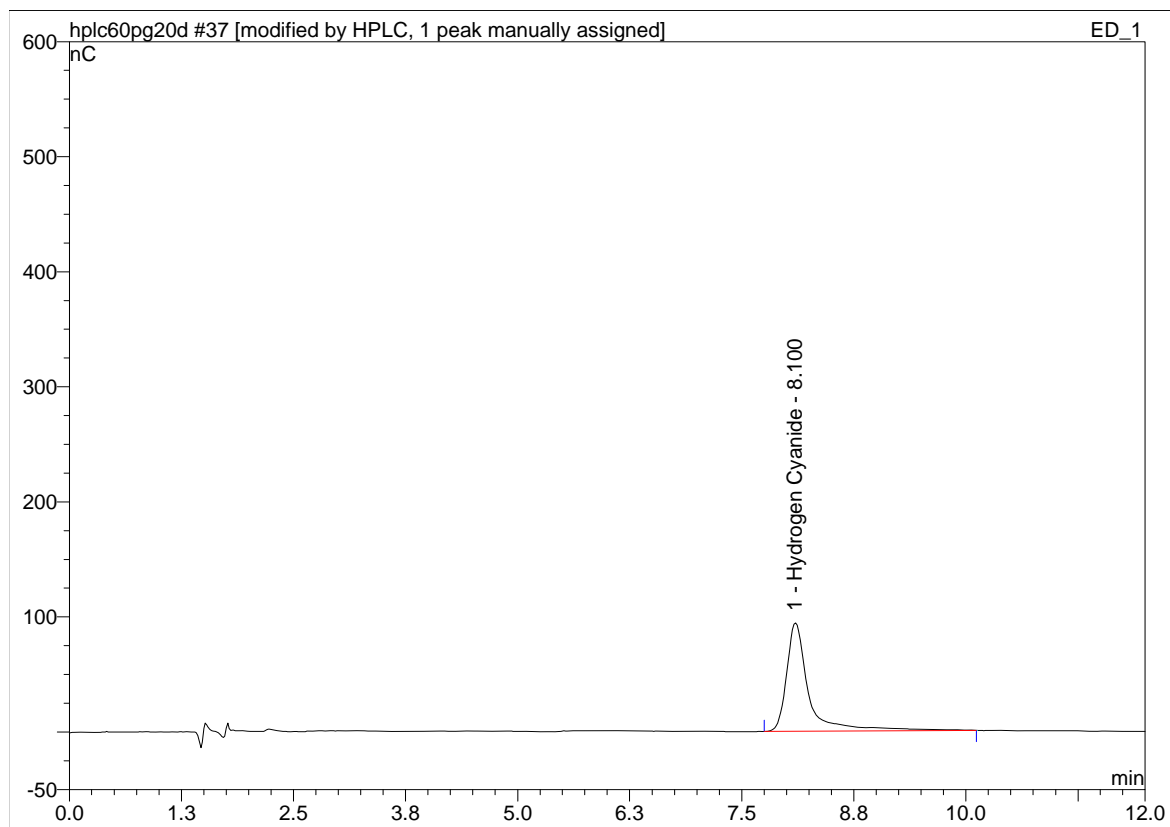


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.18	8.452	100.00	29.981	0.2781

* * * End of Report * * *

37 T1R2-6N NaOH Imp 3*5 0811-19

Injection Name	T1R2-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	24	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 11:49		
Run Time (min):	12.00		

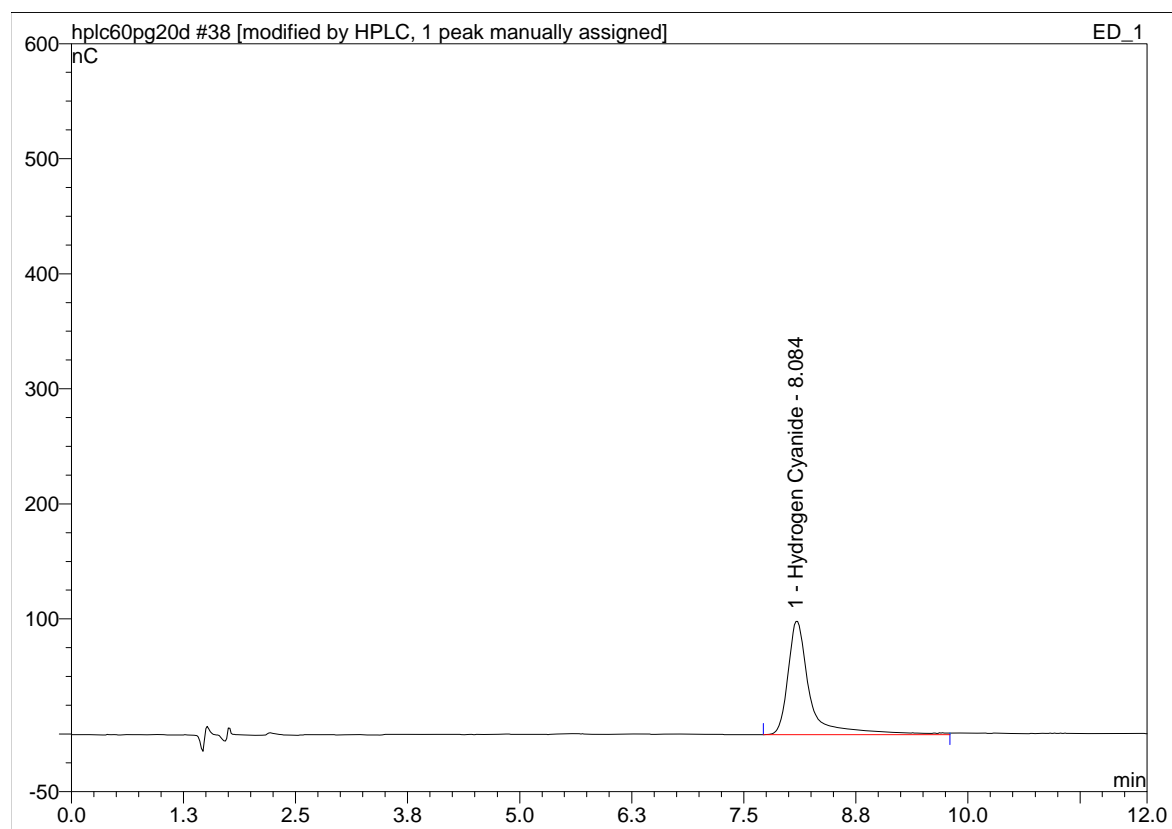


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.10	27.192	100.00	94.349	0.8946

* * * End of Report * * *

38 T1R2-6N NaOH Imp 3*5 0811-19

Injection Name	T1R2-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	24	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 12:06		
Run Time (min):	12.00		

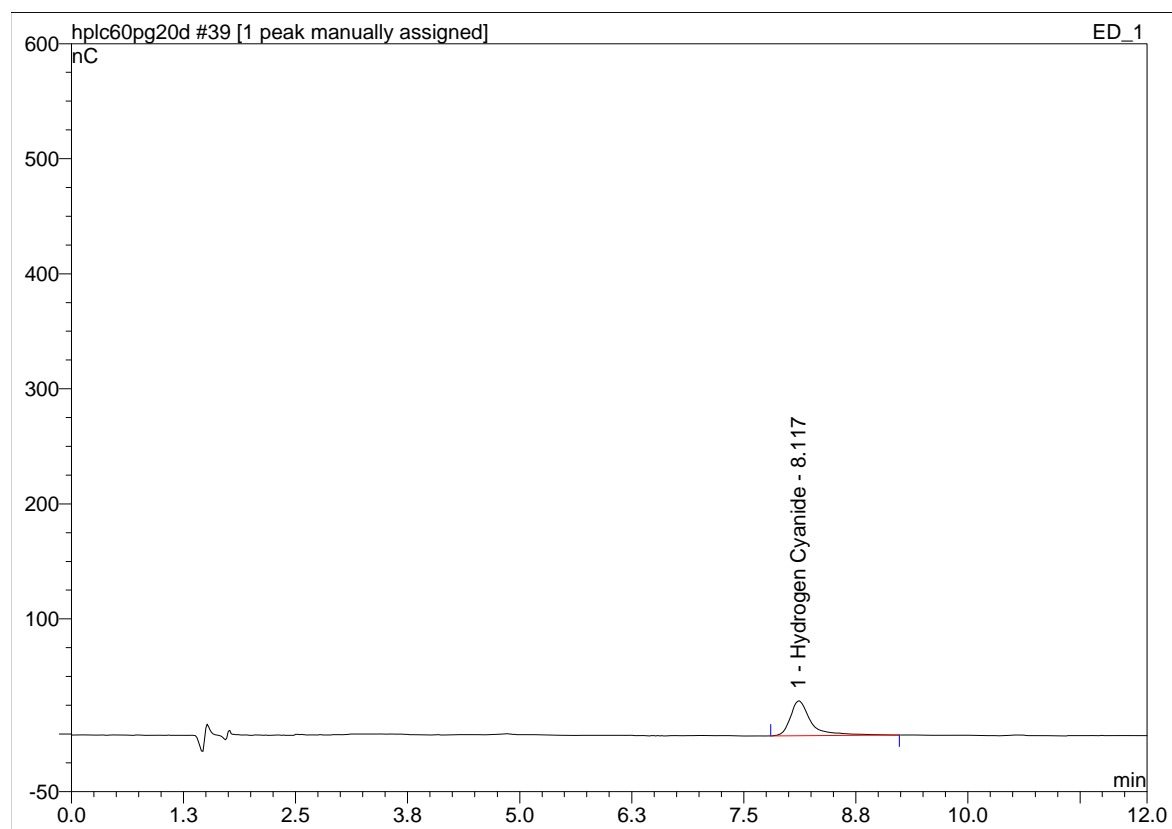


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.08	28.351	100.00	98.541	0.9327

* * * End of Report * * *

39 T1R3-6N NaOH Imp 1&2*20 0811-19

Injection Name	T1R3-6N NaOH Imp 1&2*20 081	Injection Volume:	100.0
Vial Number:	25	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 12:22		
Run Time (min):	12.00		

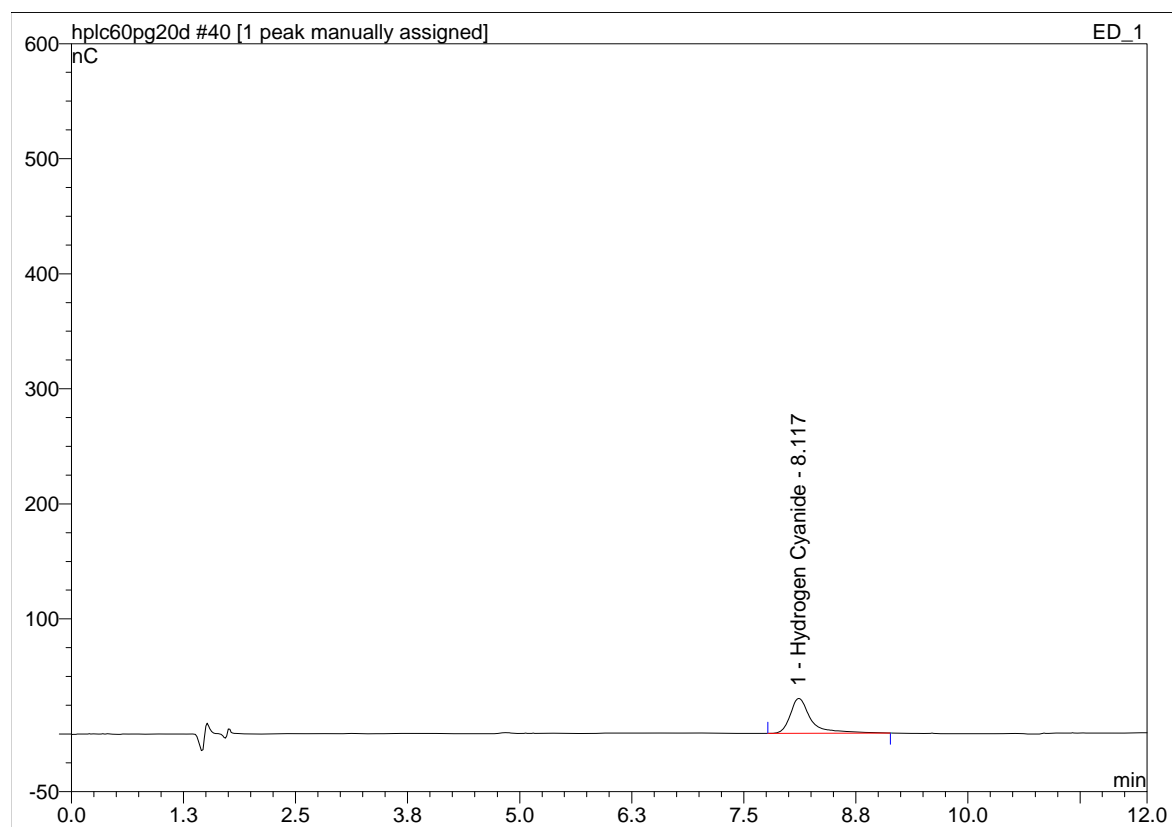


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.12	8.146	100.00	30.262	0.2680

* * * End of Report * * *

40 T1R3-6N NaOH Imp 1&2*20 0811-19

Injection Name	T1R3-6N NaOH Imp 1&2*20 081	Injection Volume:	100.0
Vial Number:	25	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 12:39		
Run Time (min):	12.00		

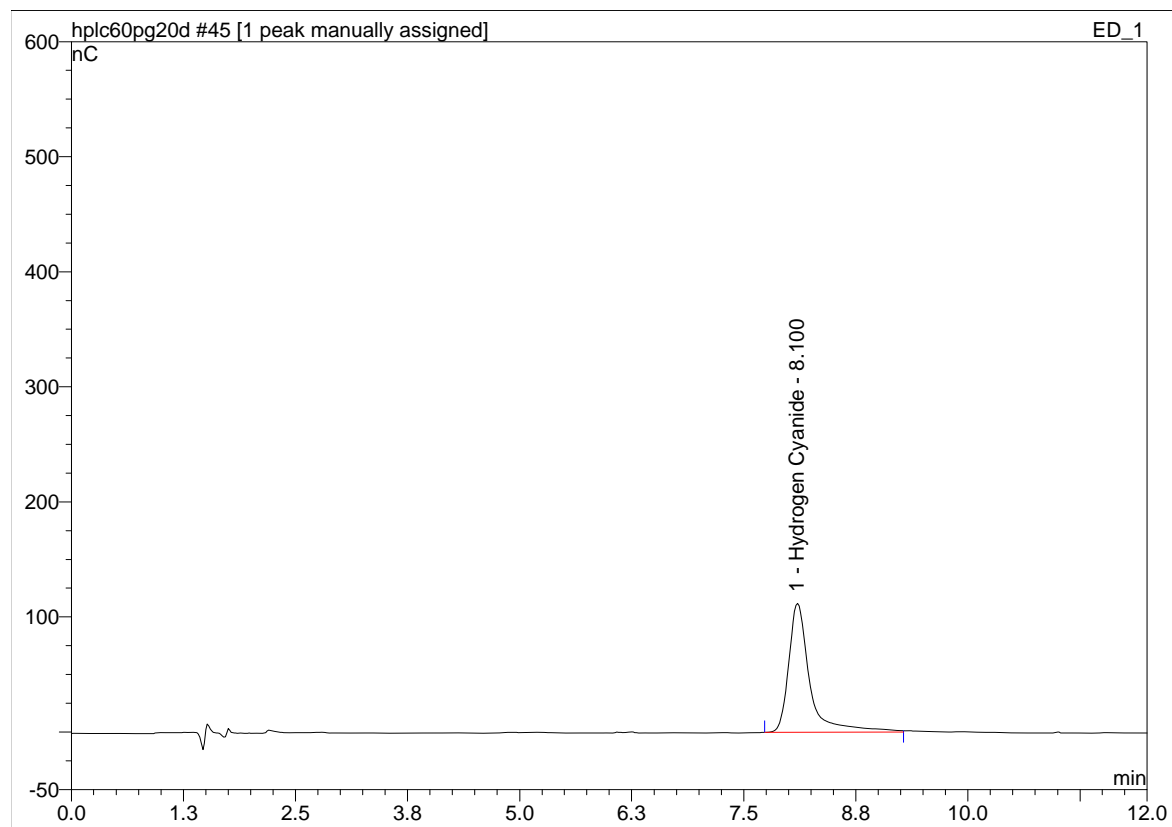


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.12	8.213	100.00	30.363	0.2702

* * * End of Report * * *

45 T1R3-6N NaOH Imp 3*5 0811-19

Injection Name	T1R3-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	26	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 13:31		
Run Time (min):	12.00		

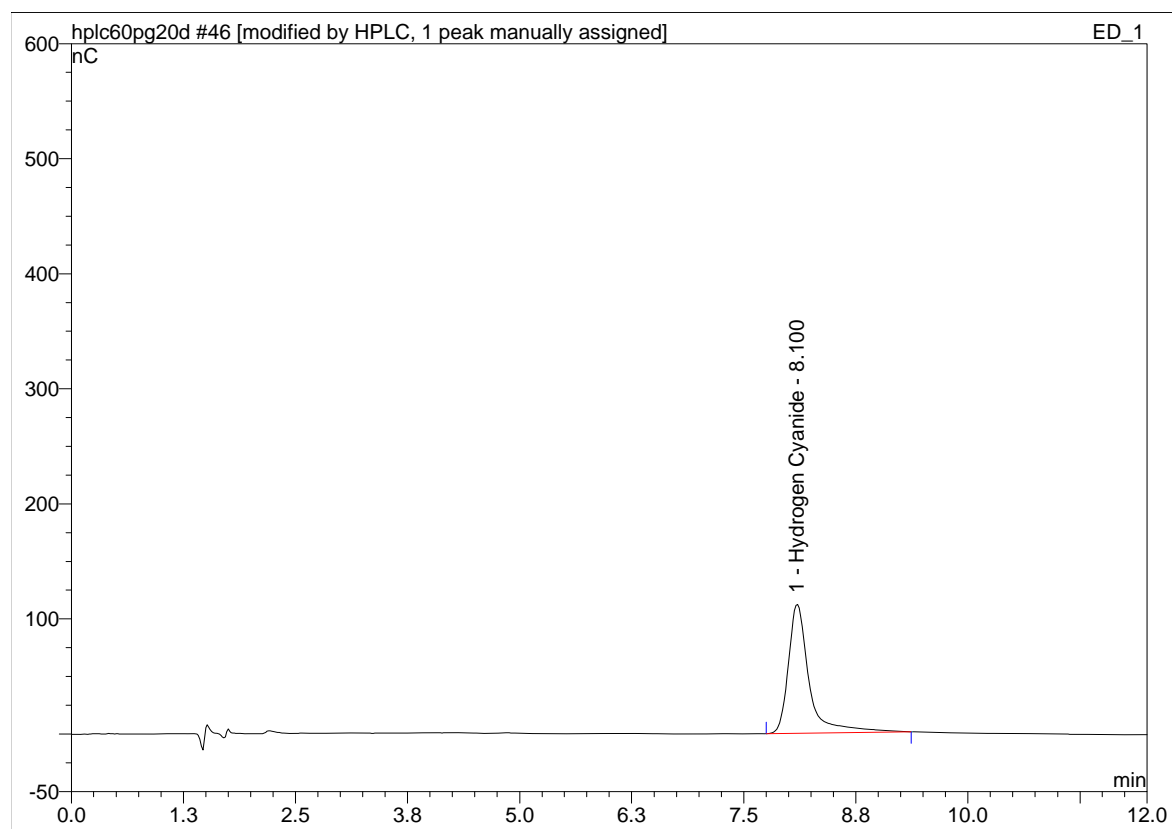


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.10	30.577	100.00	111.809	1.0060

* * * End of Report * * *

46 T1R3-6N NaOH Imp 3*5 0811-19

Injection Name	T1R3-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	26	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 13:48		
Run Time (min):	12.00		

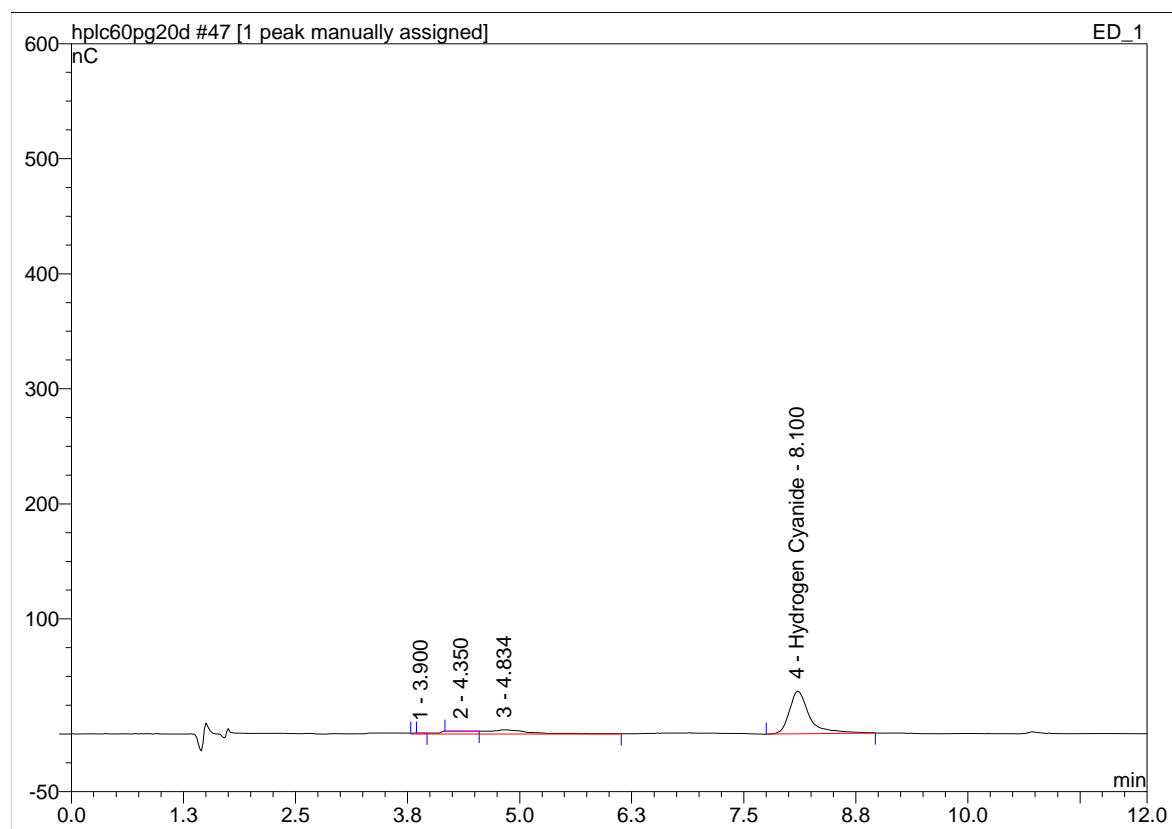


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.10	30.188	100.00	111.862	0.9932

* * * End of Report * * *

47 T1R4-6N NaOH Imp 1&2*20 0811-19

Injection Name	T1R4-6N NaOH Imp 1&2*20 081	Injection Volume:	100.0
Vial Number:	27	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 14:05		
Run Time (min):	12.00		

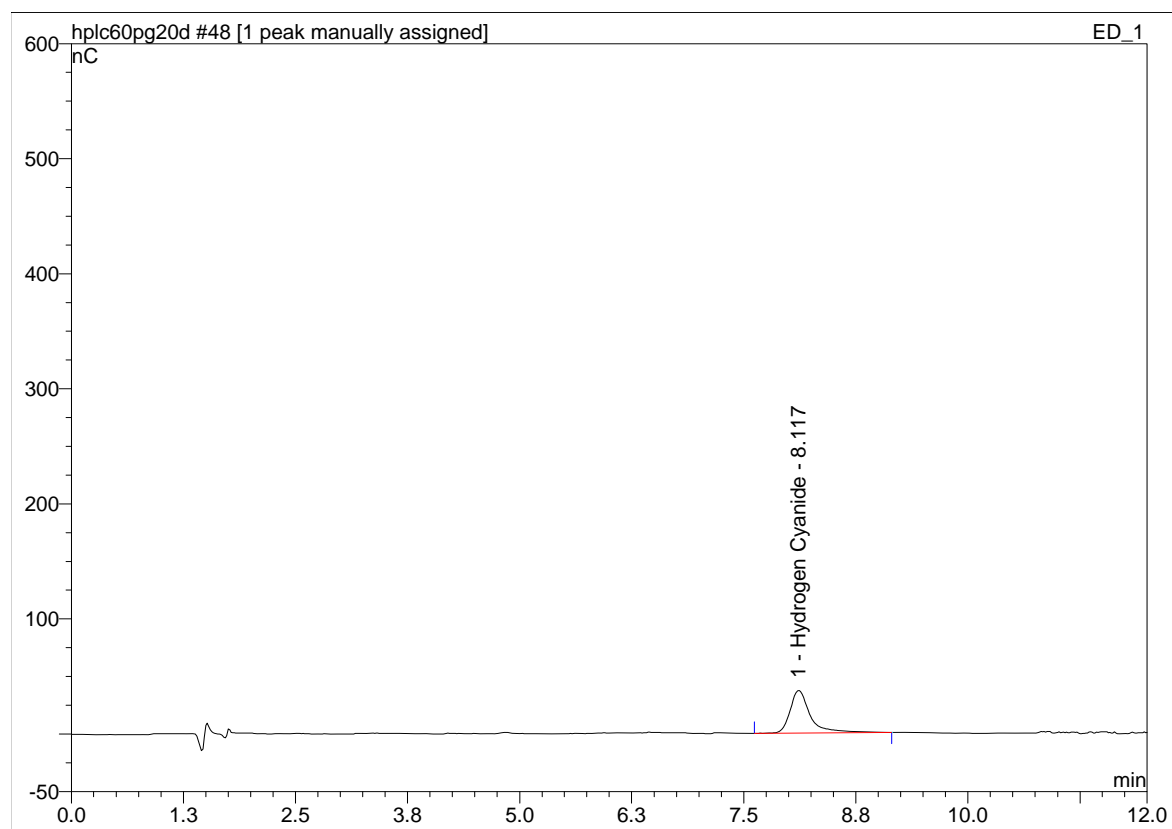


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
4	Hydrogen Cyanide	8.10	9.632	73.59	36.976	0.3169

* * * End of Report * * *

48 T1R4-6N NaOH Imp 1&2*20 0811-19

Injection Name	T1R4-6N NaOH Imp 1&2*20 081	Injection Volume:	100.0
Vial Number:	27	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 14:21		
Run Time (min):	12.00		

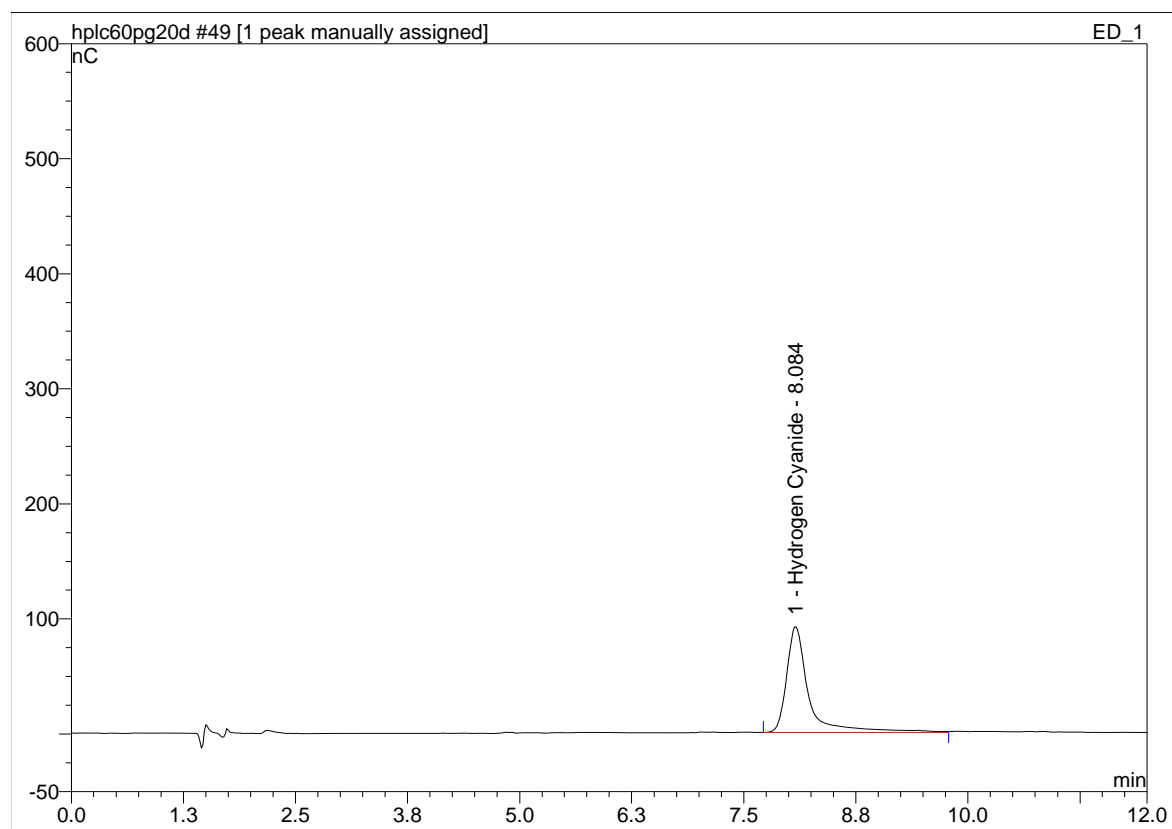


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.12	9.770	100.00	37.038	0.3214

* * * End of Report * * *

49 T1R4-6N NaOH Imp 3*5 0811-19

Injection Name	T1R4-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	28	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 14:44		
Run Time (min):	12.00		

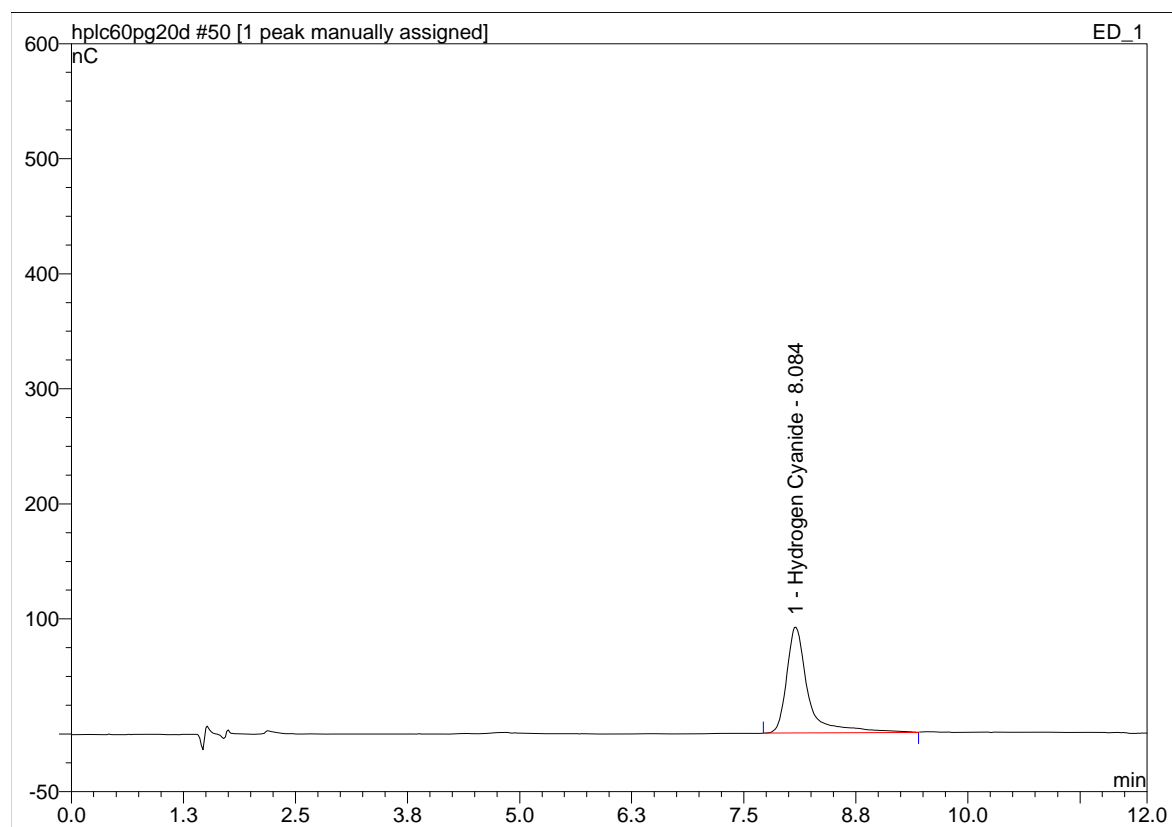


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.08	26.540	100.00	91.961	0.8732

* * * End of Report * * *

50 T1R4-6N NaOH Imp 3*5 0811-19

Injection Name	T1R4-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	28	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 15:20		
Run Time (min):	12.00		

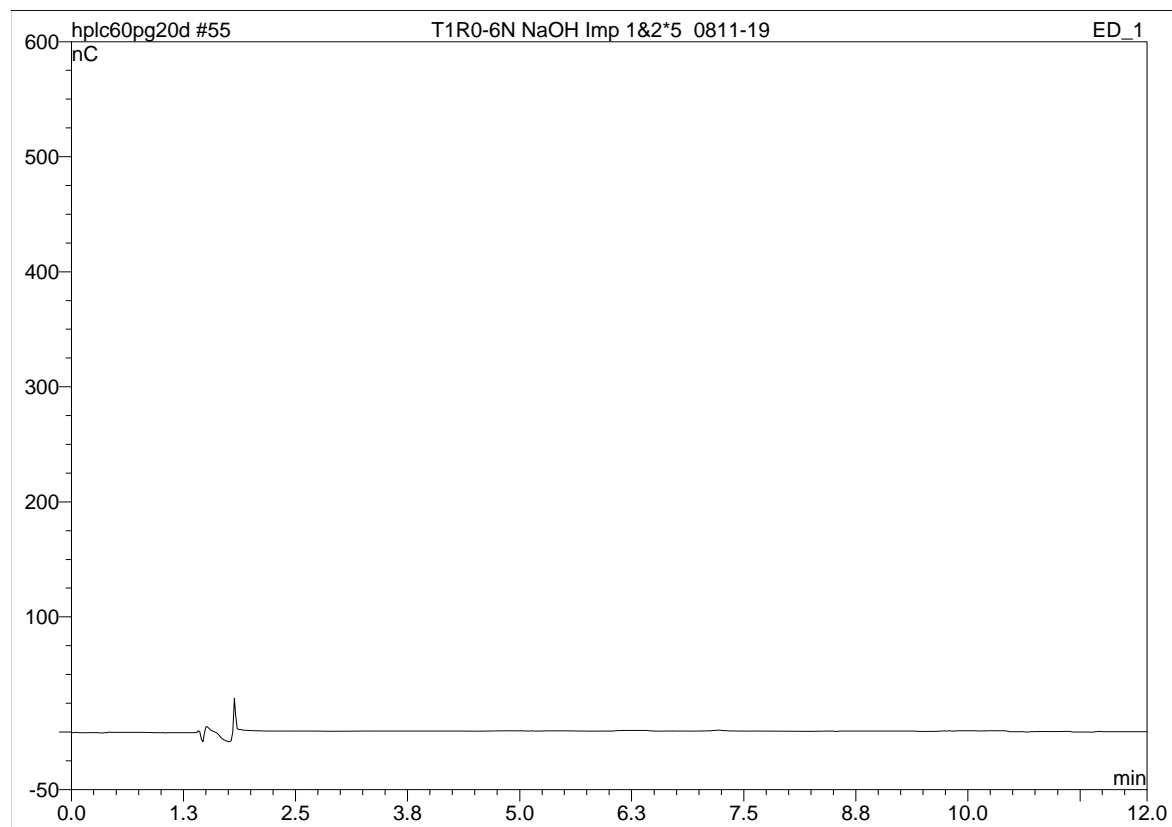


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.08	25.609	100.00	91.998	0.8425

* * * End of Report * * *

55 T1R0-6N NaOH Imp 1&2*5 0811-19

Injection Name	T1R0-6N NaOH Imp 1&2*5 0811	Injection Volume:	100.0
Vial Number:	29	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 16:11		
Run Time (min):	12.00		

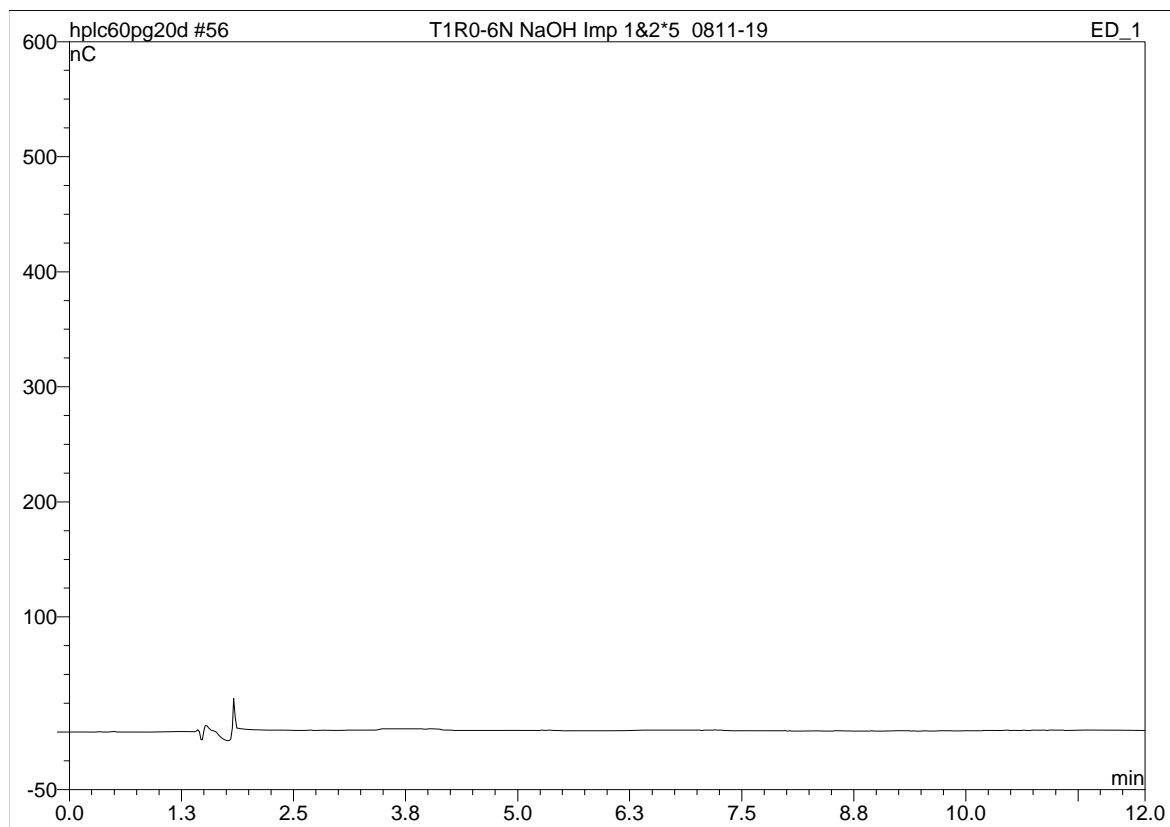


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

56 T1R0-6N NaOH Imp 1&2*5 0811-19

Injection Name	T1R0-6N NaOH Imp 1&2*5 0811	Injection Volume:	100.0
Vial Number:	29	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 16:28		
Run Time (min):	12.00		

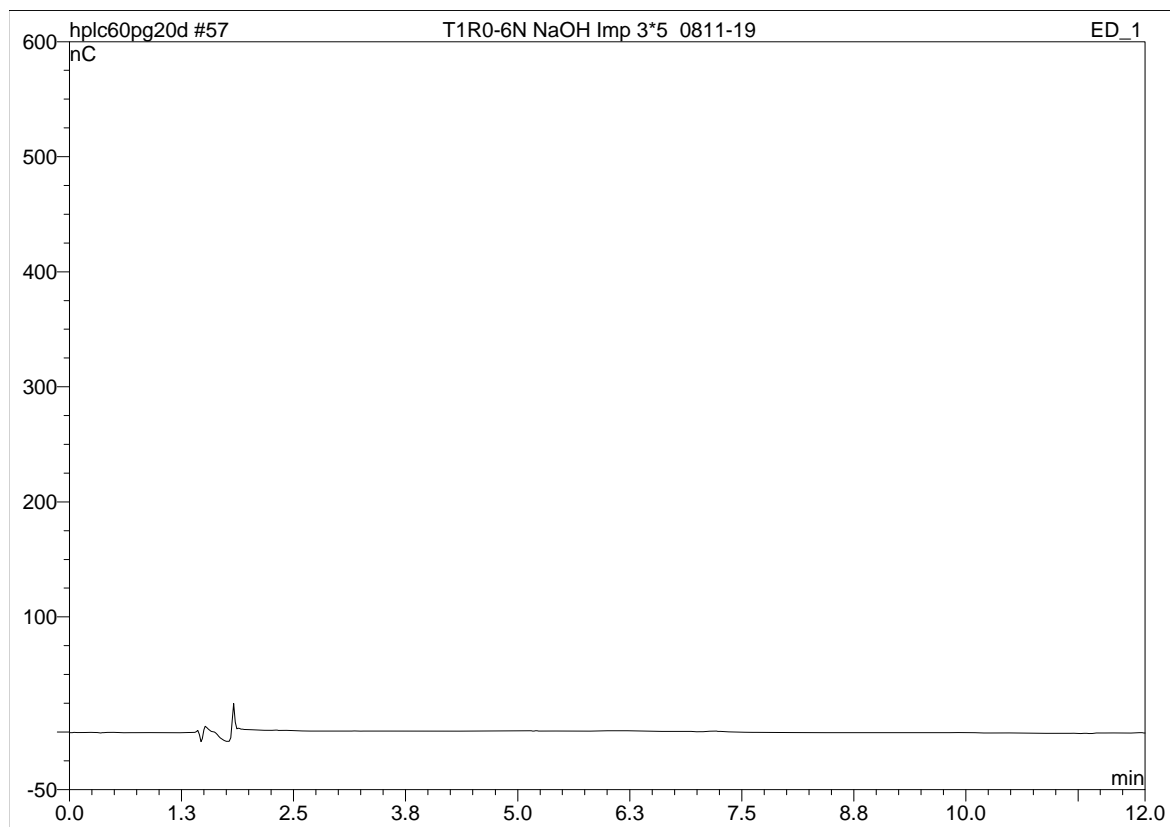


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

57 T1R0-6N NaOH Imp 3*5 0811-19

Injection Name	T1R0-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	30	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 16:45		
Run Time (min):	12.00		

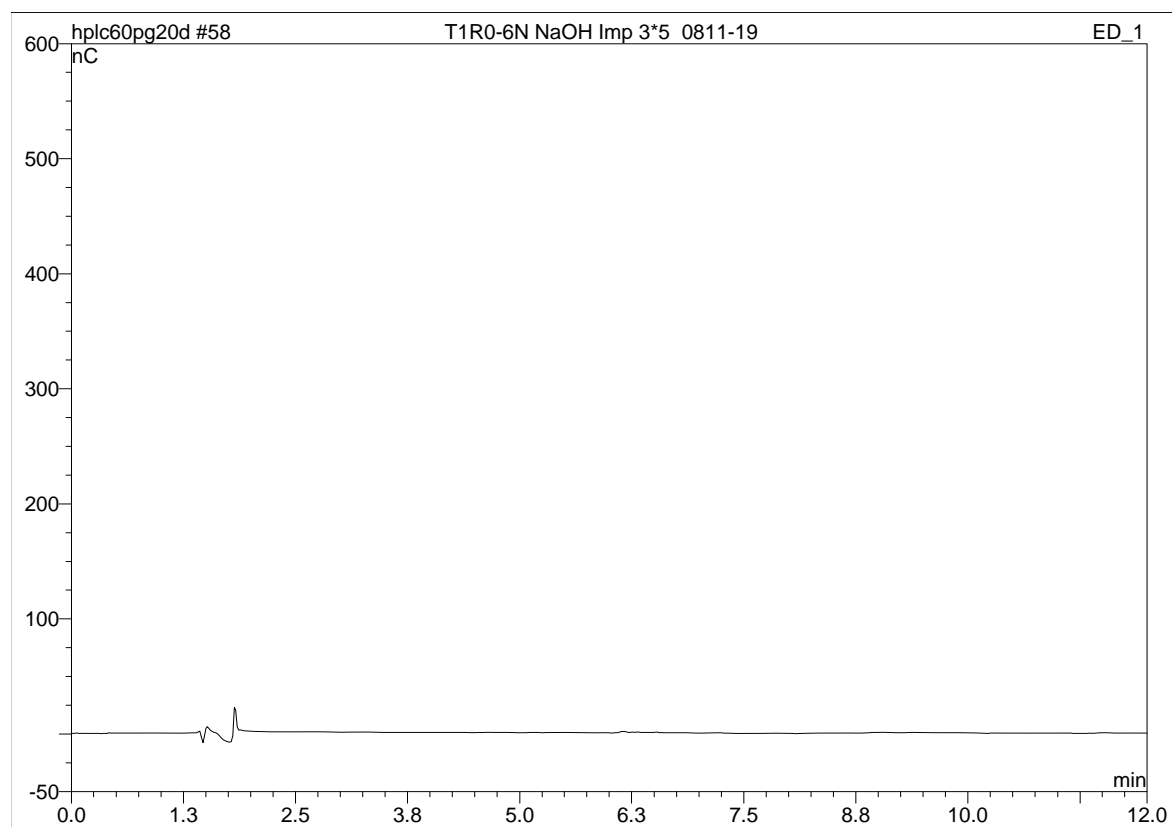


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

58 T1R0-6N NaOH Imp 3*5 0811-19

Injection Name	T1R0-6N NaOH Imp 3*5 0811-19	Injection Volume:	100.0
Vial Number:	30	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 17:02		
Run Time (min):	12.00		

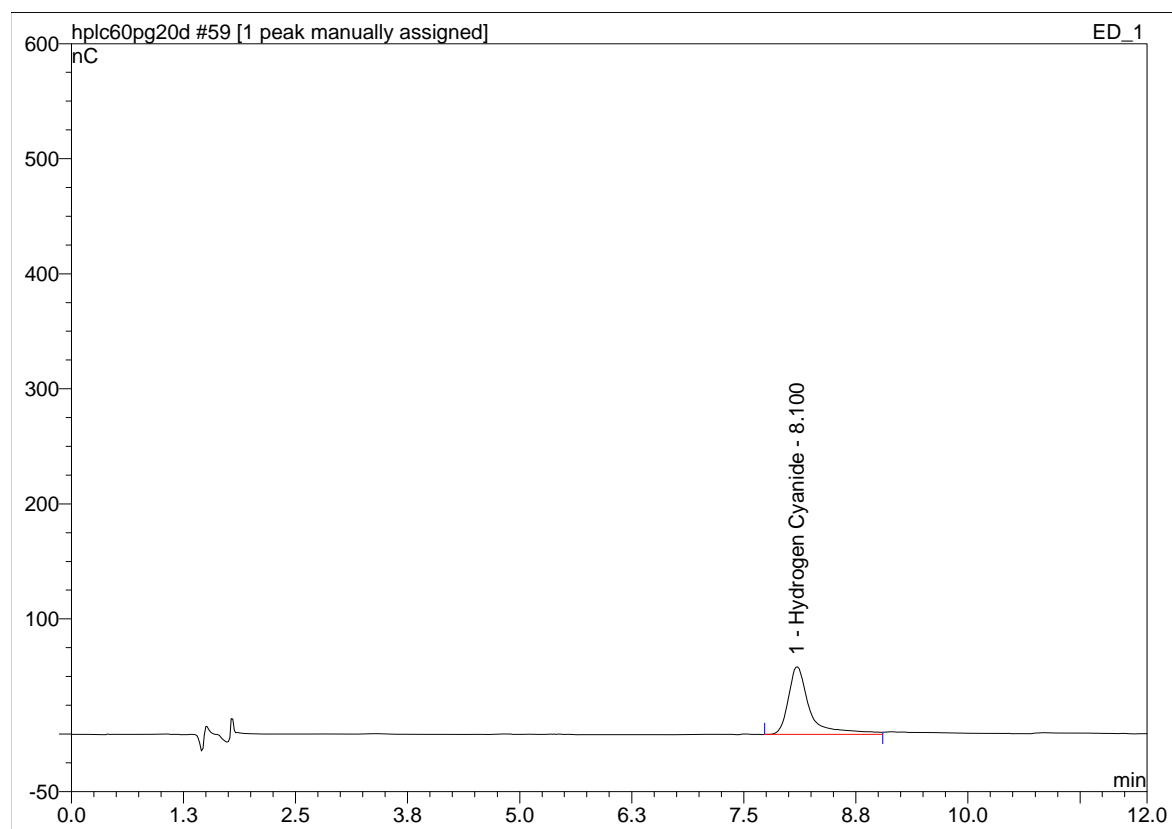


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

59 T1R000-Recovery Spike*10 0811-19

Injection Name	T1R000-Recovery Spike*10 08	Injection Volume:	100.0
Vial Number:	31	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 17:18		
Run Time (min):	12.00		

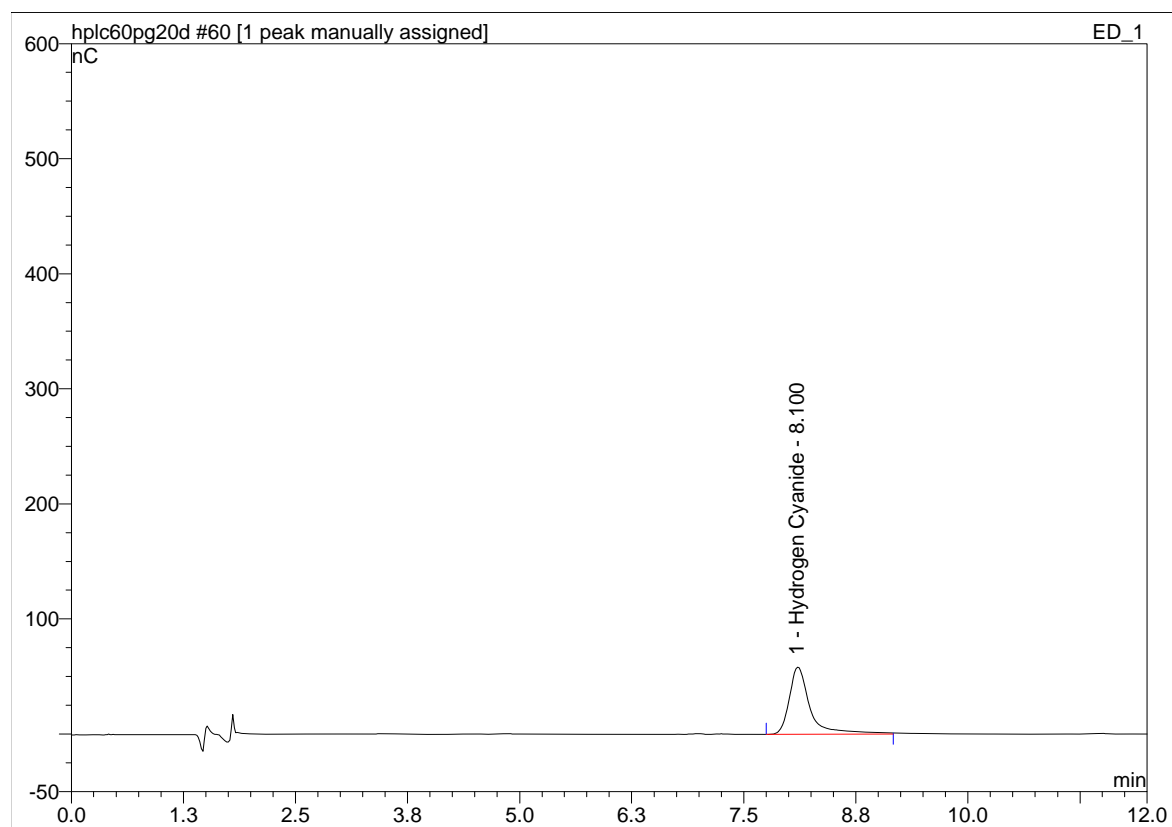


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.10	16.312	100.00	58.840	0.5367

* * * End of Report * * *

60 T1R000-Recovery Spike*10 0811-19

Injection Name	T1R000-Recovery Spike*10 08	Injection Volume:	100.0
Vial Number:	31	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 17:35		
Run Time (min):	12.00		

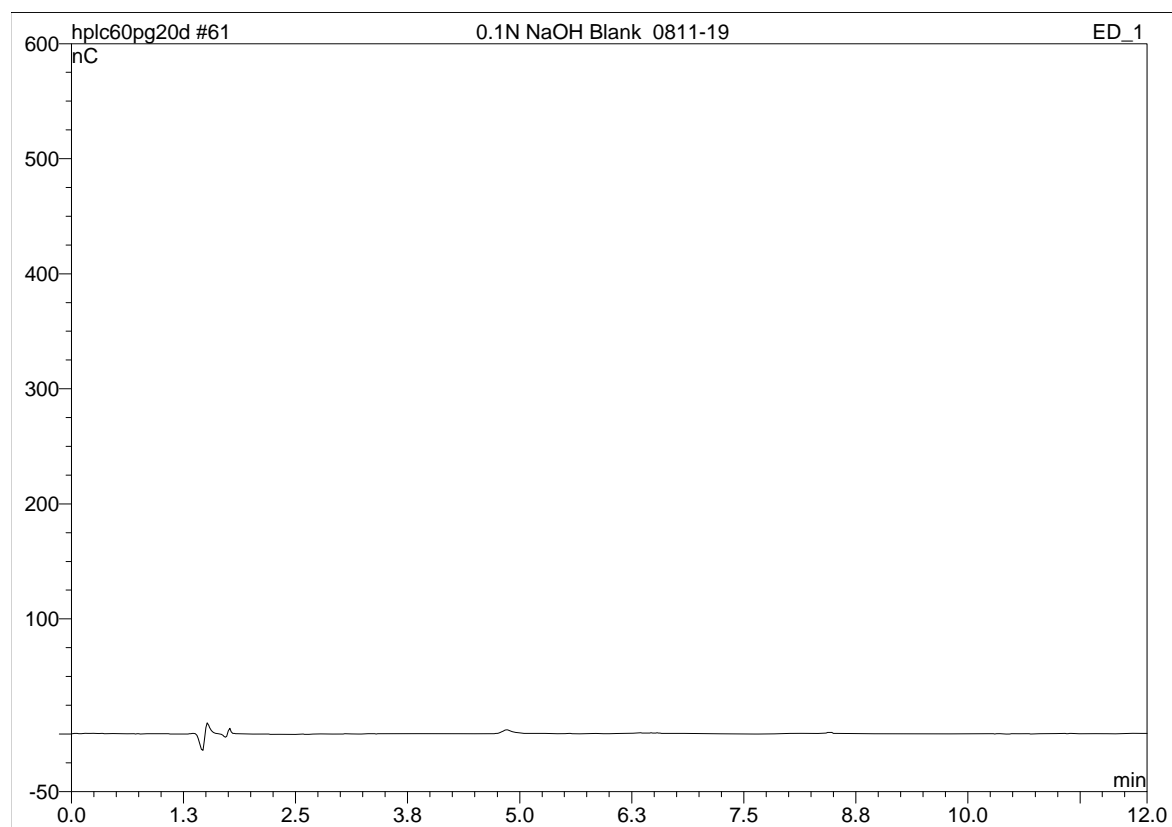


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.10	15.799	100.00	58.479	0.5198

* * * End of Report * * *

61 0.1N NaOH Blank 0811-19

Injection Name	0.1N NaOH Blank 0811-19	Injection Volume:	100.0
Vial Number:	32	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 17:52		
Run Time (min):	12.00		

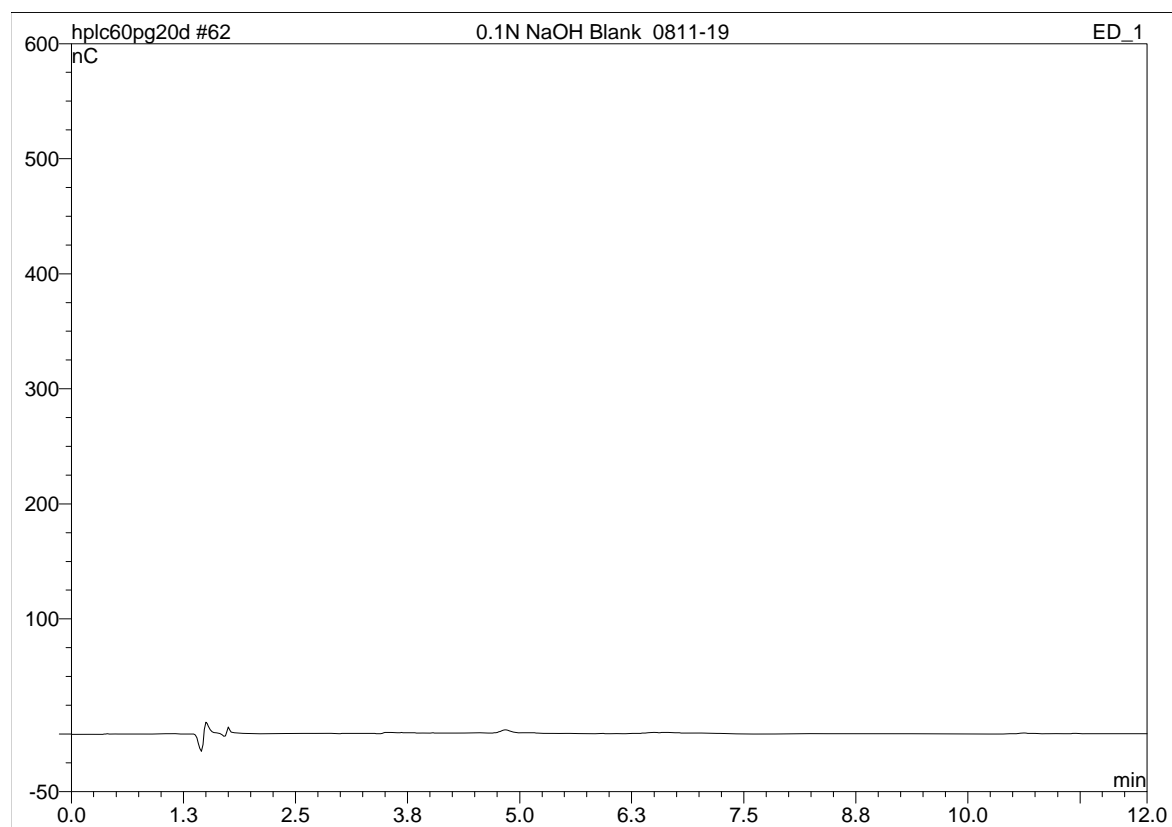


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

62 0.1N NaOH Blank 0811-19

Injection Name	0.1N NaOH Blank 0811-19	Injection Volume:	100.0
Vial Number:	32	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 18:09		
Run Time (min):	12.00		

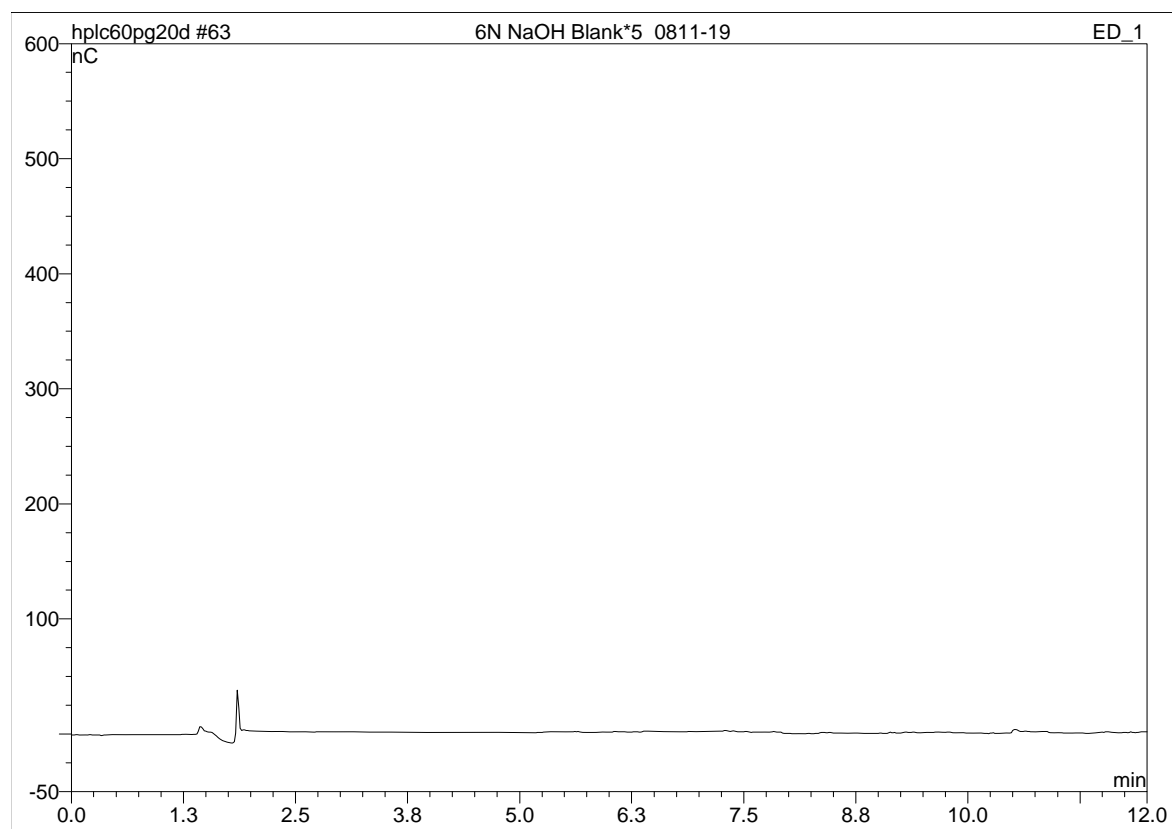


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
-----	-----------	----------------------------	----------------	---------------	--------------	-----------------

* * * End of Report * * *

63 6N NaOH Blank*5 0811-19

Injection Name	6N NaOH Blank*5 0811-19	Injection Volume:	100.0
Vial Number:	33	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 18:25		
Run Time (min):	12.00		

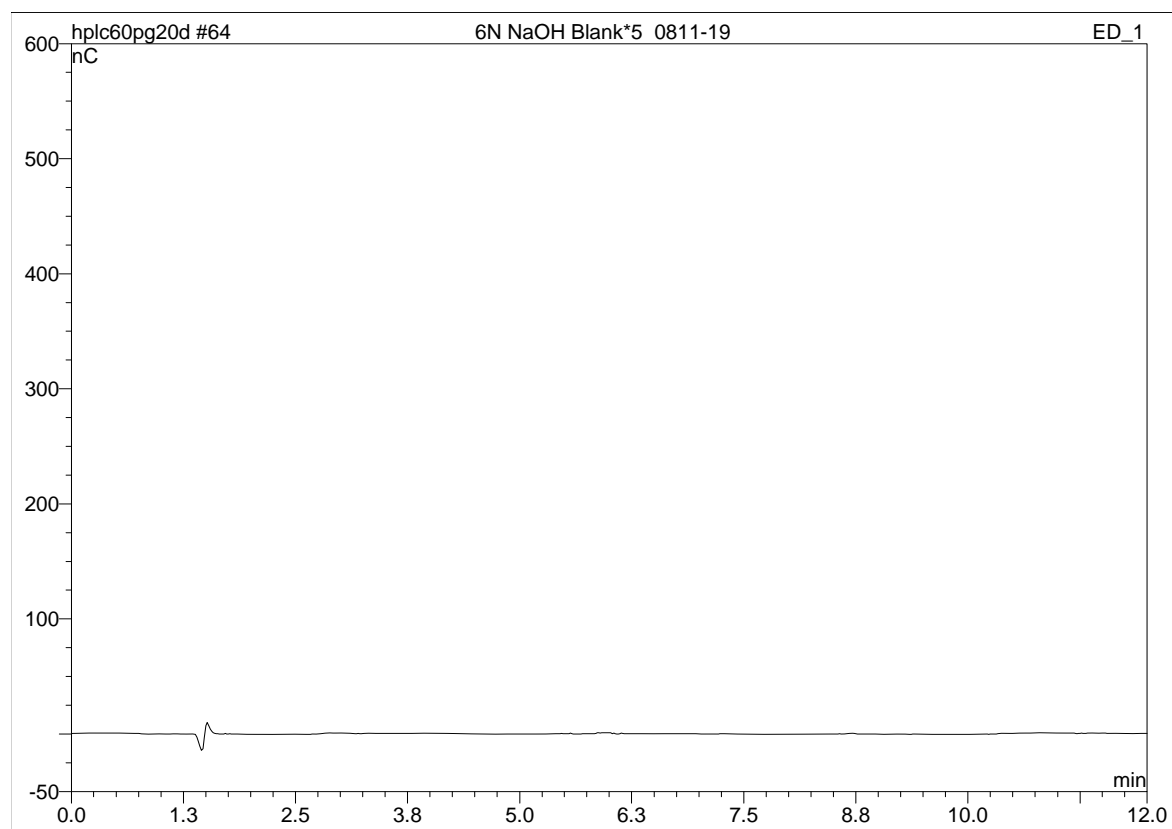


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

64 6N NaOH Blank*5 0811-19

Injection Name	6N NaOH Blank*5 0811-19	Injection Volume:	100.0
Vial Number:	33	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 18:42		
Run Time (min):	12.00		

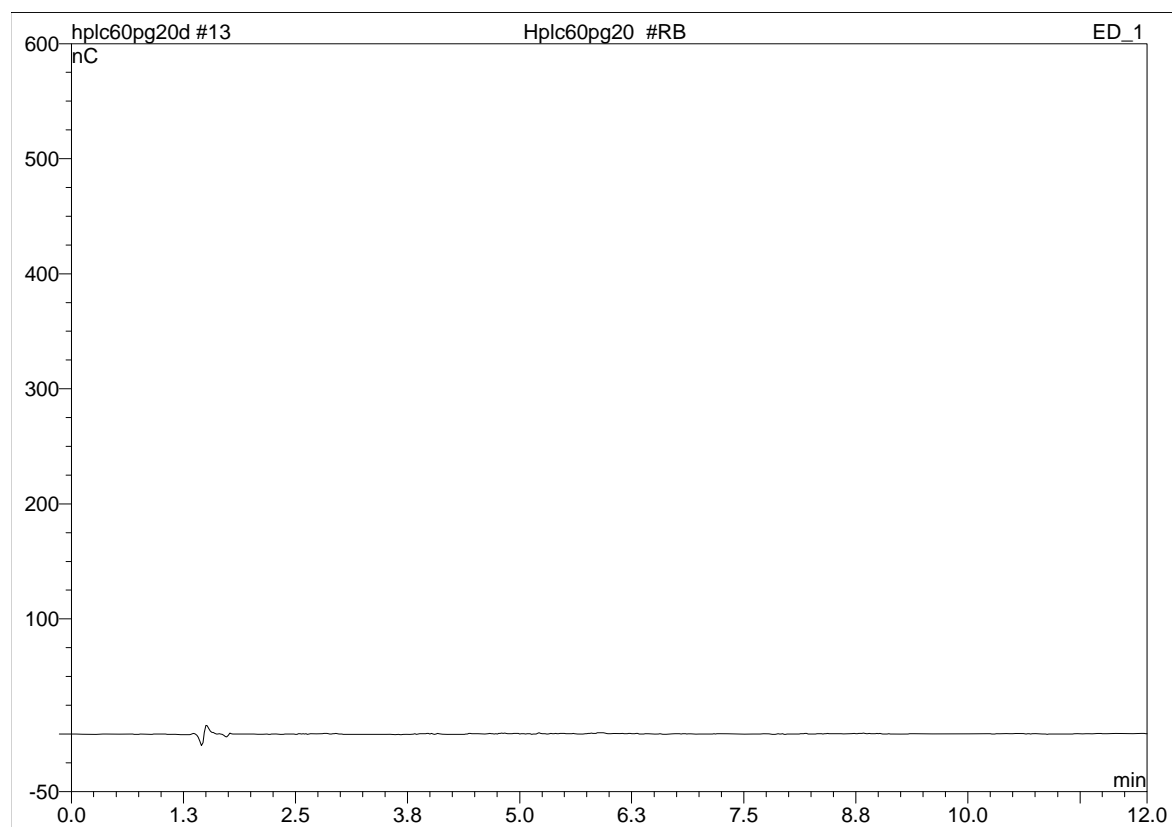


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

13 Hplc60pg20 #RB

Injection Name	Hplc60pg20 #RB	Injection Volume:	100.0
Vial Number:	7	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 14:11		
Run Time (min):	12.00		

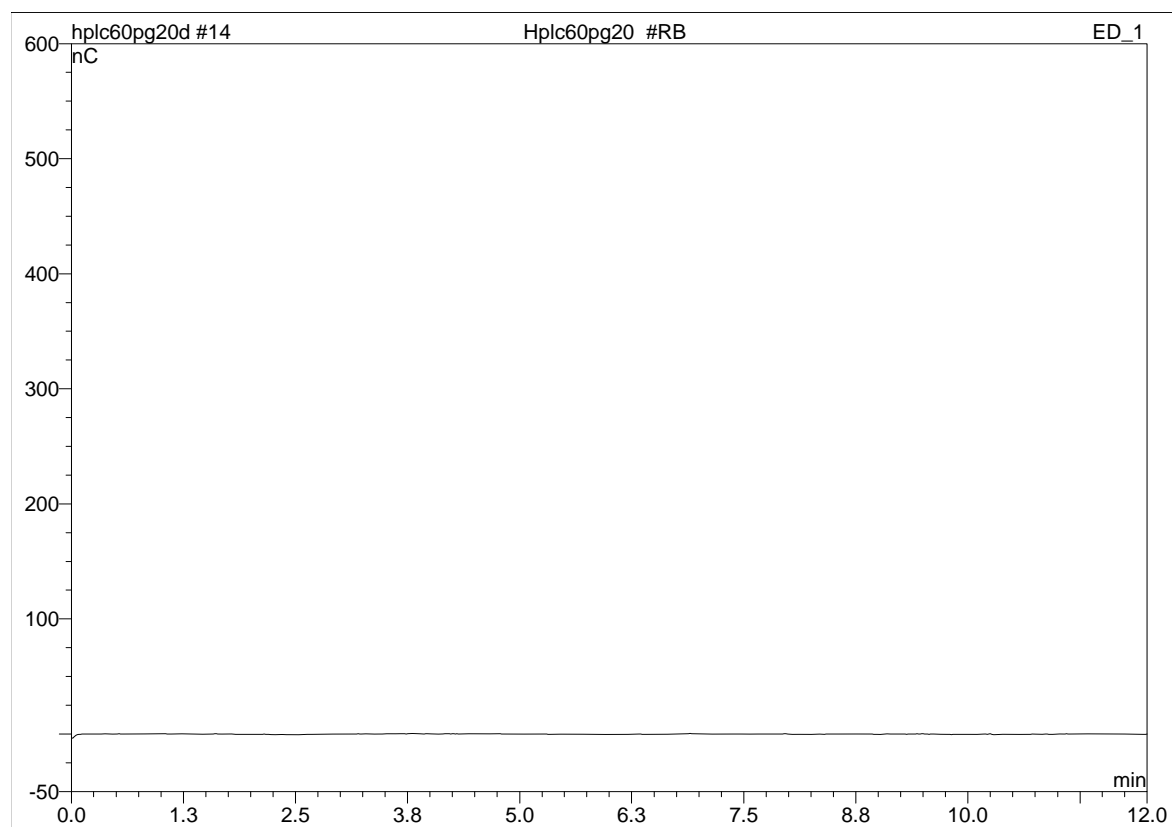


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
-----	-----------	----------------------------	----------------	---------------	--------------	-----------------

* * * End of Report * * *

14 Hplc60pg20 #RB

Injection Name	Hplc60pg20 #RB	Injection Volume:	100.0
Vial Number:	7	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 14:28		
Run Time (min):	12.00		

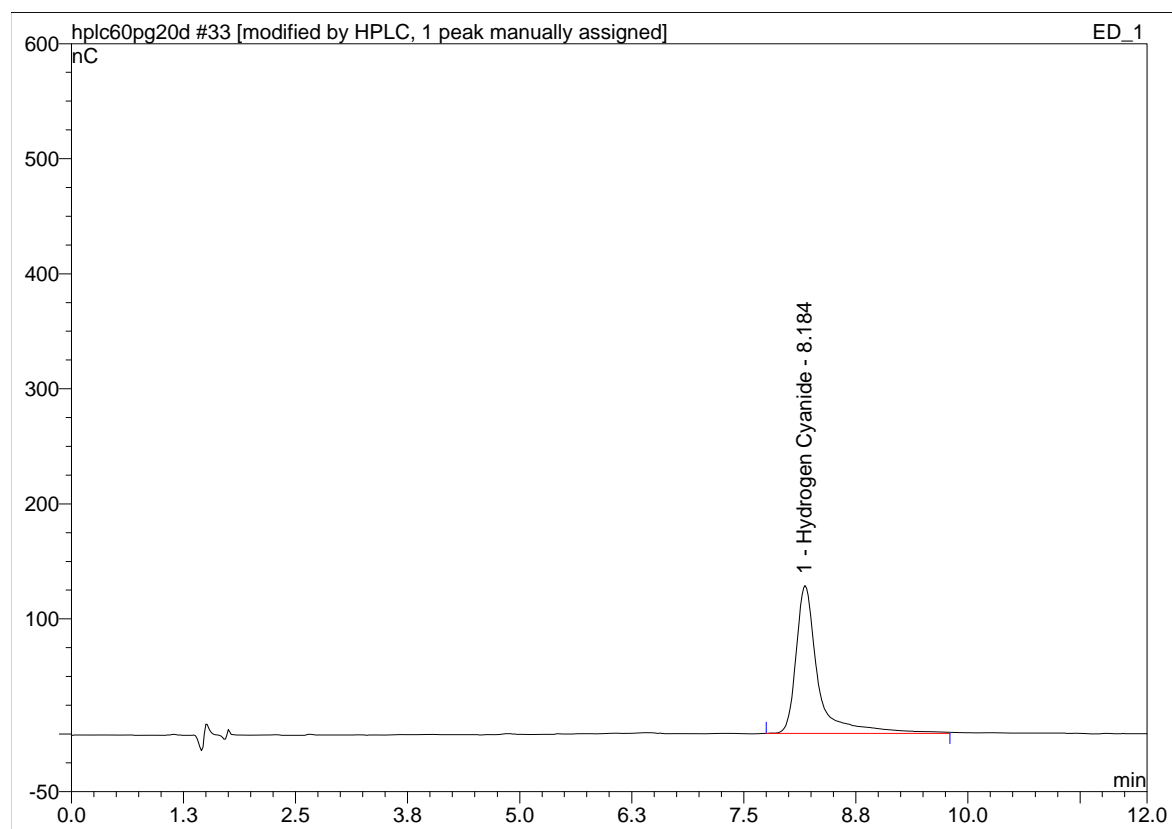


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
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* * * End of Report * * *

33 MS/T1R2-6N NaOH Imp 1&2*20 0811-19

Injection Name **MS/T1R2-6N NaOH Imp 1&2*20** *Injection Volume:* **100.0**
Vial Number: **22** *Channel:* **ED_1**
Sample Type: **unknown**
Control Program: **HCN-Back**
Quantif. Method: **HCN-method**
Recording Time: **9/7/2011 10:42**
Run Time (min): **12.00**

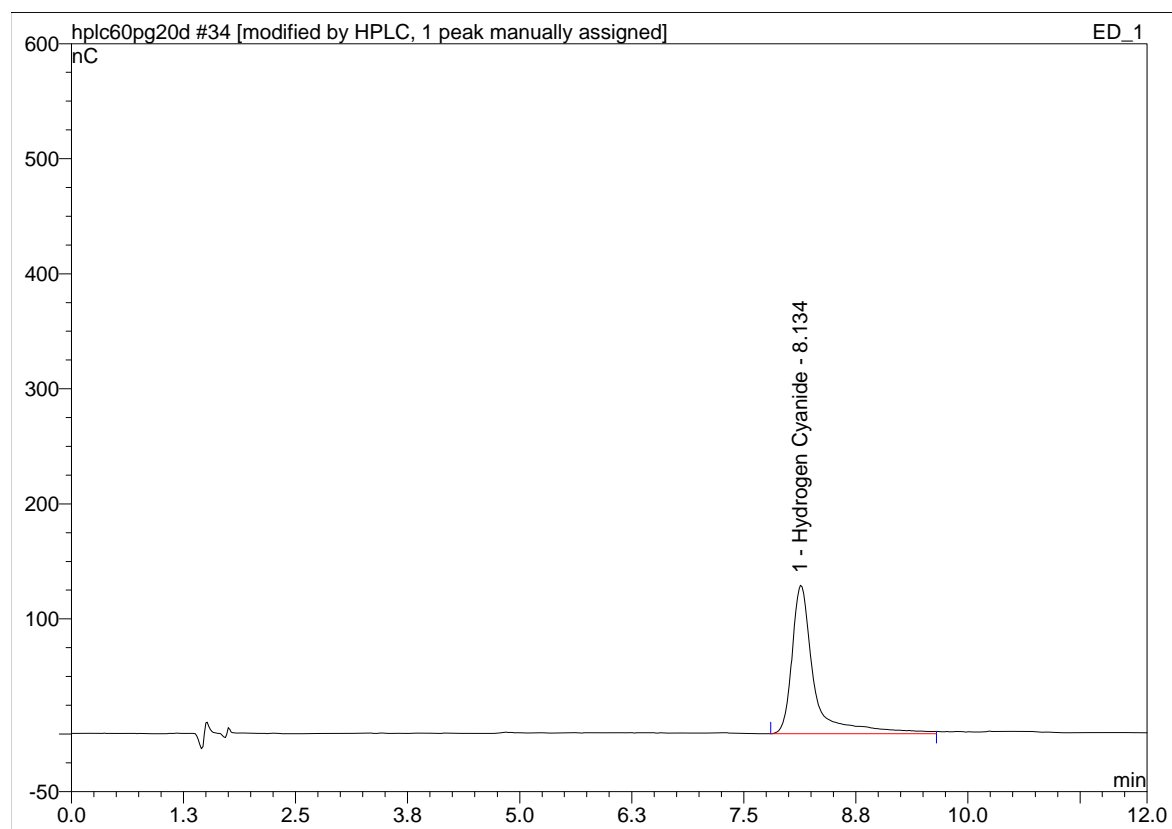


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.18	36.819	100.00	128.469	1.2113

* * * End of Report * * *

34 MS/T1R2-6N NaOH Imp 1&2*20 0811-19

Injection Name	MS/T1R2-6N NaOH Imp 1&2*20	Injection Volume:	100.0
Vial Number:	22	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 10:59		
Run Time (min):	12.00		

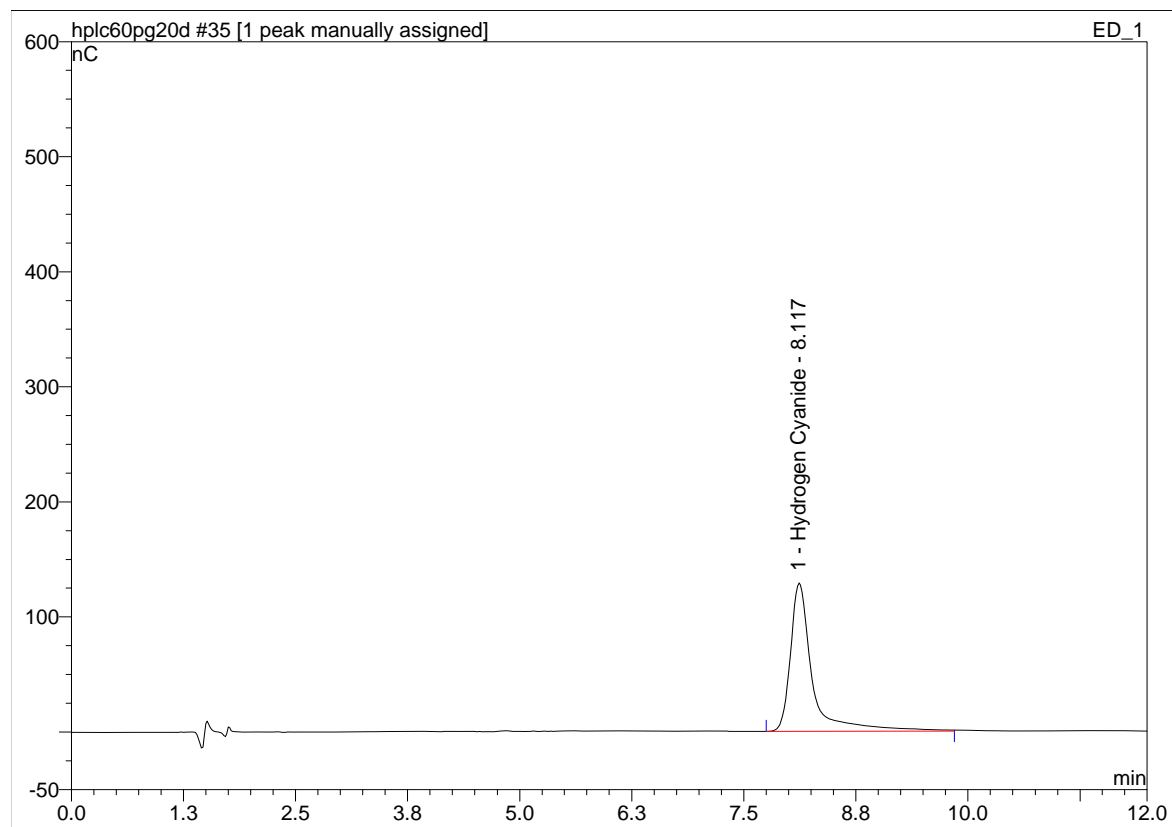


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.13	36.993	100.00	128.981	1.2170

* * * End of Report * * *

35 MSD/T1R2-6N NaOH Imp 1&2*20 0811-19

Injection Name **MSD/T1R2-6N NaOH Imp 1&2*2** *Injection Volume:* **100.0**
Vial Number: **23** *Channel:* **ED_1**
Sample Type: **unknown**
Control Program: **HCN-Back**
Quantif. Method: **HCN-method**
Recording Time: **9/7/2011 11:15**
Run Time (min): **12.00**

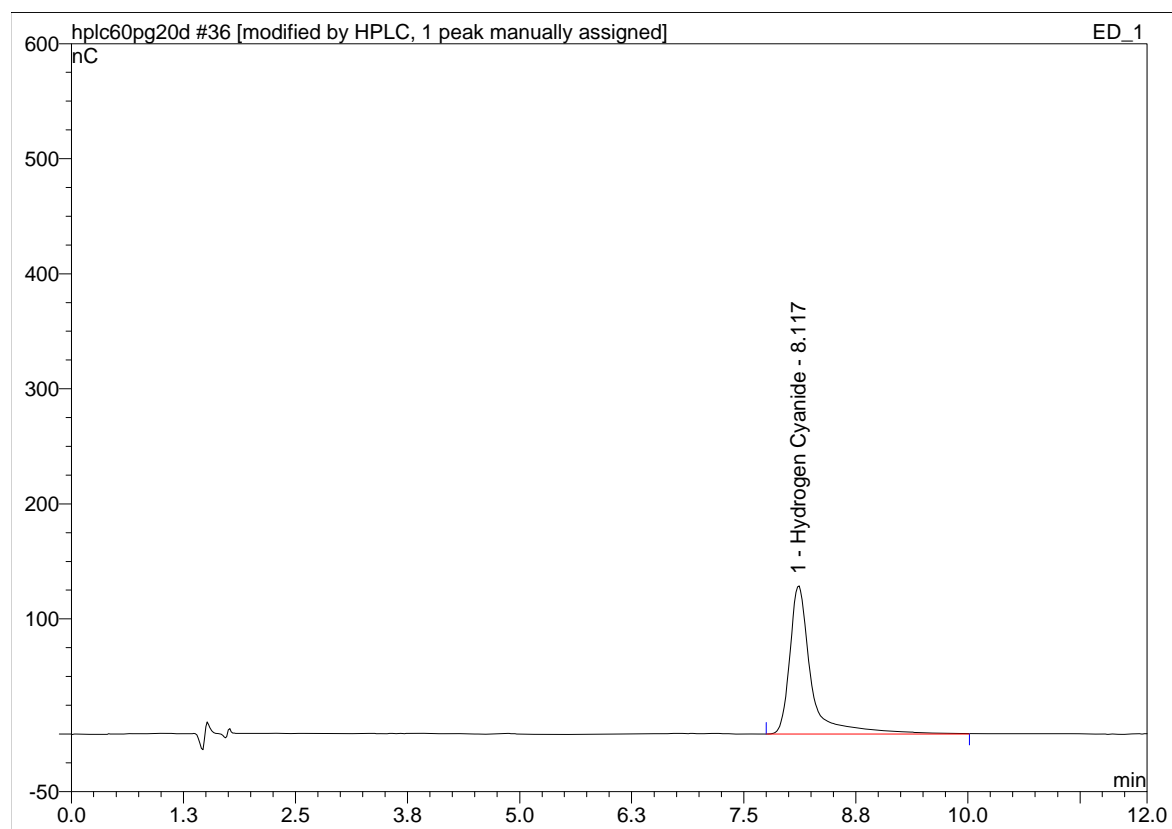


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.12	36.712	100.00	128.934	1.2078

* * * End of Report * * *

36 MSD/T1R2-6N NaOH Imp 1&2*20 0811-19

Injection Name	MSD/T1R2-6N NaOH Imp 1&2*2	Injection Volume:	100.0
Vial Number:	23	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 11:32		
Run Time (min):	12.00		



No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.12	35.744	100.00	128.504	1.1760

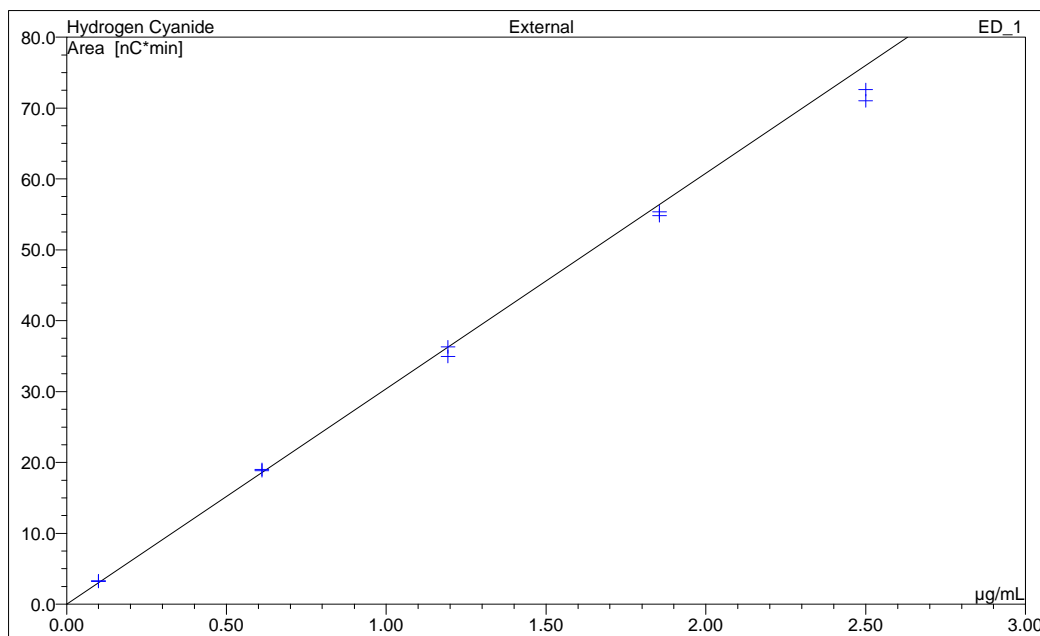
* * * End of Report * * *

Calibration Curve Chromatograms

Flanders-Back\2011 3rd Quarter\hplc60pg20**HCN-method**

Sample Name: **Hplc60pg20 #3**
Vial Number: **90**
Sample Type: **unknown**
Control Program: **HCN-Back**
Quantif. Method: **HCN-method**
Recording Time: **9/7/2011 12:51**
Run Time (min): **9.83**

Injection Volume: **100.0**
Channel: **ED_1**



No.

n.a.

No. min	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Slope
n.a.	n.a.	Hydrogen Cyanide	XXALin	10	99.9690	30.3957
Average:					99.9690	30.3957

Method File: HCN-method
Operator: HPLC

Page 1 of 6
Printed: 9/8/2011 9:00:00 AM

Title: Flanders-HCN-Back

Datasource: EA380-DIONEX_local

Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ

Created: 9/7/2011 8:50:00 AM by HPLC

Last Update: 9/7/2011 1:27:01 PM by HPLC

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Width	0.04 min	ED_1
2	0.000	Maximum Area Reject	2.0 "[Signal]*min"	ED_1
3	0.000	Fronting Sensitivity Factor	2.0	ED_1
4	0.000	Inhibit Integration	On	ED_1
5	2.900	Inhibit Integration	Off	ED_1

Method File: HCN-method
Operator: HPLC

Page 2 of 6
Printed: 9/8/2011 9:00:00 AM

Title: Flanders-HCN-Back

Datasource: EA380-DIONEX_local

Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ

Created: 9/7/2011 8:50:00 AM by HPLC

Last Update: 9/7/2011 1:27:01 PM by HPLC

Peak Table:

Use Recently Detected Retention Times: Off

Peak Retention Time Determination: Absolute

Dead time:

Delay Time of 2'nd Detector: <None>

Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount Standard 1	Amount Standard 2
1	Hydrogen Cyanide	8.450 min	0.200 AG	External	Area	XXALin	Auto		0.099800	0.610900

Method File: HCN-method
Operator: HPLC

Page 3 of 6
Printed: 9/8/2011 9:00:00 AM

Title: Flanders-HCN-Back

Datasource: EA380-DIONEX_local

Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ

Created: 9/7/2011 8:50:00 AM by HPLC

Last Update: 9/7/2011 1:27:01 PM by HPLC

Peak Table:

Use Recently Detected Retention Times: Off

Peak Retention Time Determination: Absolute

Dead time:

Delay Time of 2'nd Detector: <None>

Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount Standard 3	Amount Standard 4	Amount Standard 5	Comment
1	Hydrogen Cyanide	8.450 min	1.193000	1.855000	2.500000	

Method File: HCN-method
Operator: HPLC

Page 4 of 6
Printed: 9/8/2011 9:00:00 AM

Title: Flanders-HCN-Back

Datasource: EA380-DIONEX_local

Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ

Created: 9/7/2011 8:50:00 AM by HPLC

Last Update: 9/7/2011 1:27:01 PM by HPLC

Amount Table:

Dimension of Amounts: µg/mL

Reference volume for amounts: Use inject volume of first standard

Number of Amount Columns: 5

Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Amount Standard 1	Amount Standard 2	Amount Standard 3	Amount Standard 4	Amount Standard 5	Comment
1	Hydrogen Cyanide	8.450 min	1.000000	0.099800	0.610900	1.193000	1.855000	2.500000	

Title: Flanders-HCN-Back

Datasource: EA380-DIONEX_local

Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ

Created: 9/7/2011 8:50:00 AM by HPLC

Last Update: 9/7/2011 1:27:01 PM by HPLC











Calibration:

Calibration Mode: Total

Auto Recalibrate: On

Curve Fitting Model: Normal

Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	<input checked="" type="checkbox"/>	 Hplc60pg20 #1	1	1	100.0	1.0000	1.0000	1.0000	9/6/2011 9:28:54 AM
2	<input checked="" type="checkbox"/>	 Hplc60pg20 #1	2	1	100.0	1.0000	1.0000	1.0000	9/6/2011 9:45:39 AM
3	<input checked="" type="checkbox"/>	 Hplc60pg20 #2	3	2	100.0	1.0000	1.0000	1.0000	9/6/2011 11:21:33 AM
4	<input checked="" type="checkbox"/>	 Hplc60pg20 #2	4	2	100.0	1.0000	1.0000	1.0000	9/6/2011 11:38:18 AM
5	<input checked="" type="checkbox"/>	 Hplc60pg20 #3	5	3	100.0	1.0000	1.0000	1.0000	9/6/2011 11:55:04 AM
6	<input checked="" type="checkbox"/>	 Hplc60pg20 #3	6	3	100.0	1.0000	1.0000	1.0000	9/6/2011 12:11:49 PM
7	<input checked="" type="checkbox"/>	 Hplc60pg20 #4	7	4	100.0	1.0000	1.0000	1.0000	9/6/2011 12:30:53 PM
8	<input checked="" type="checkbox"/>	 Hplc60pg20 #4	8	4	100.0	1.0000	1.0000	1.0000	9/6/2011 12:47:38 PM
9	<input checked="" type="checkbox"/>	 Hplc60pg20 #5	9	5	100.0	1.0000	1.0000	1.0000	9/6/2011 1:04:22 PM
10	<input checked="" type="checkbox"/>	 Hplc60pg20 #5	10	5	100.0	1.0000	1.0000	1.0000	9/6/2011 1:21:07 PM

Title: Flanders-HCN-Back

Datasource: EA380-DIONEX_local

Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ

Created: 9/7/2011 8:50:00 AM by HPLC

Last Update: 9/7/2011 1:27:01 PM by HPLC











Calibration:

Calibration Mode: Total

Auto Recalibrate: On

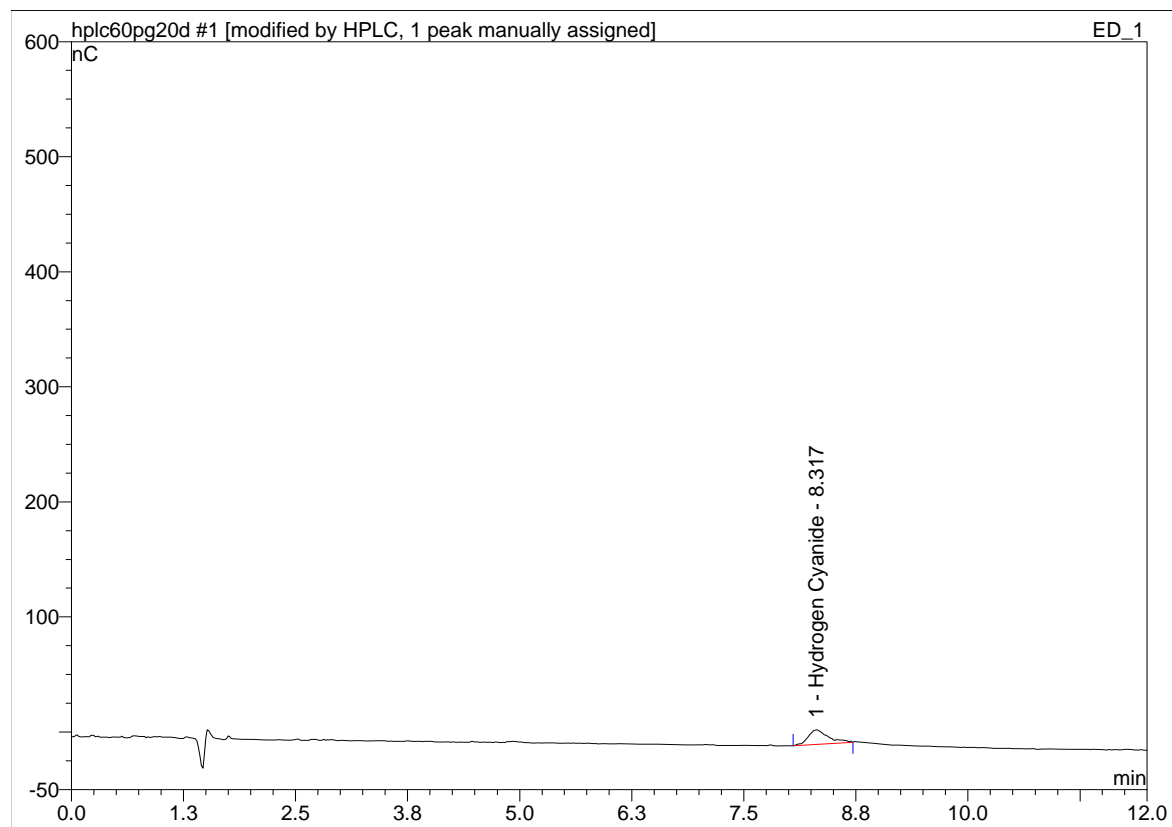
Curve Fitting Model: Normal

Dual-Column Separate Calibration: Off

No.	Enabled	Name	Sample Comment	Calib. Comment
1	<input checked="" type="checkbox"/>	 Hplc60pg20 #1		Ok
2	<input checked="" type="checkbox"/>	 Hplc60pg20 #1		Ok
3	<input checked="" type="checkbox"/>	 Hplc60pg20 #2		Ok
4	<input checked="" type="checkbox"/>	 Hplc60pg20 #2		Ok
5	<input checked="" type="checkbox"/>	 Hplc60pg20 #3		Ok
6	<input checked="" type="checkbox"/>	 Hplc60pg20 #3		Ok
7	<input checked="" type="checkbox"/>	 Hplc60pg20 #4		Ok
8	<input checked="" type="checkbox"/>	 Hplc60pg20 #4		Ok
9	<input checked="" type="checkbox"/>	 Hplc60pg20 #5		Ok
10	<input checked="" type="checkbox"/>	 Hplc60pg20 #5		Ok

1 Hplc60pg20 #1

Injection Name	Hplc60pg20 #1	Injection Volume:	100.0
Vial Number:	1	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 9:28		
Run Time (min):	12.00		

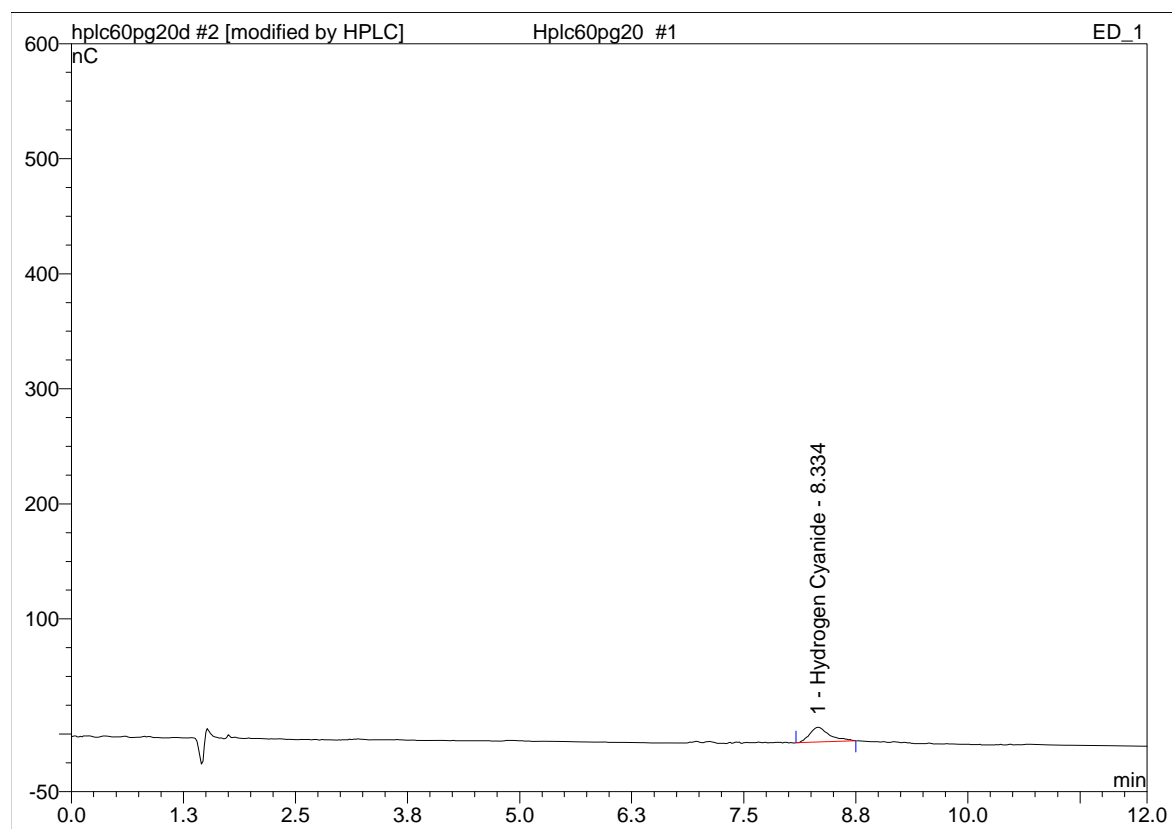


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.32	3.311	100.00	12.493	0.1089

* * * End of Report * * *

2 Hplc60pg20 #1

Injection Name	Hplc60pg20 #1	Injection Volume:	100.0
Vial Number:	1	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 9:45		
Run Time (min):	12.00		

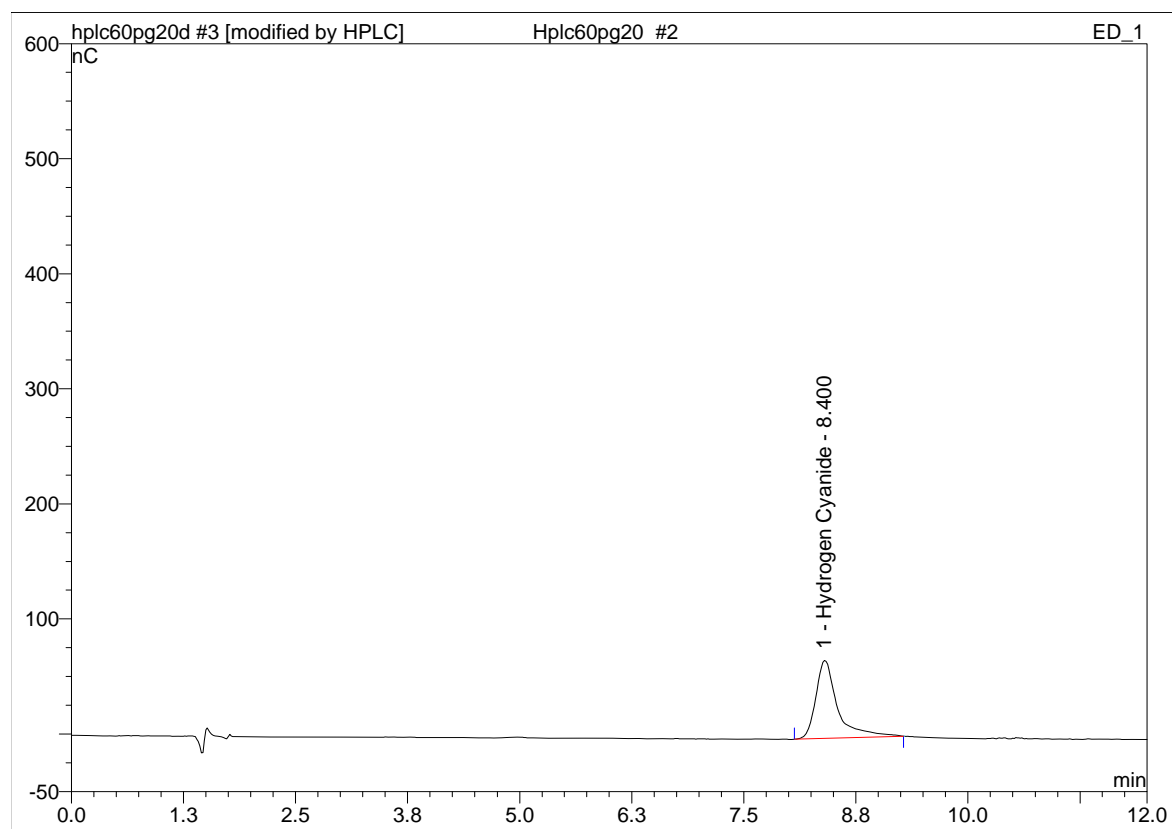


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.33	3.217	100.00	12.705	0.1058

* * * End of Report * * *

3 Hplc60pg20 #2

Injection Name	Hplc60pg20 #2	Injection Volume:	100.0
Vial Number:	2	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 11:21		
Run Time (min):	12.00		

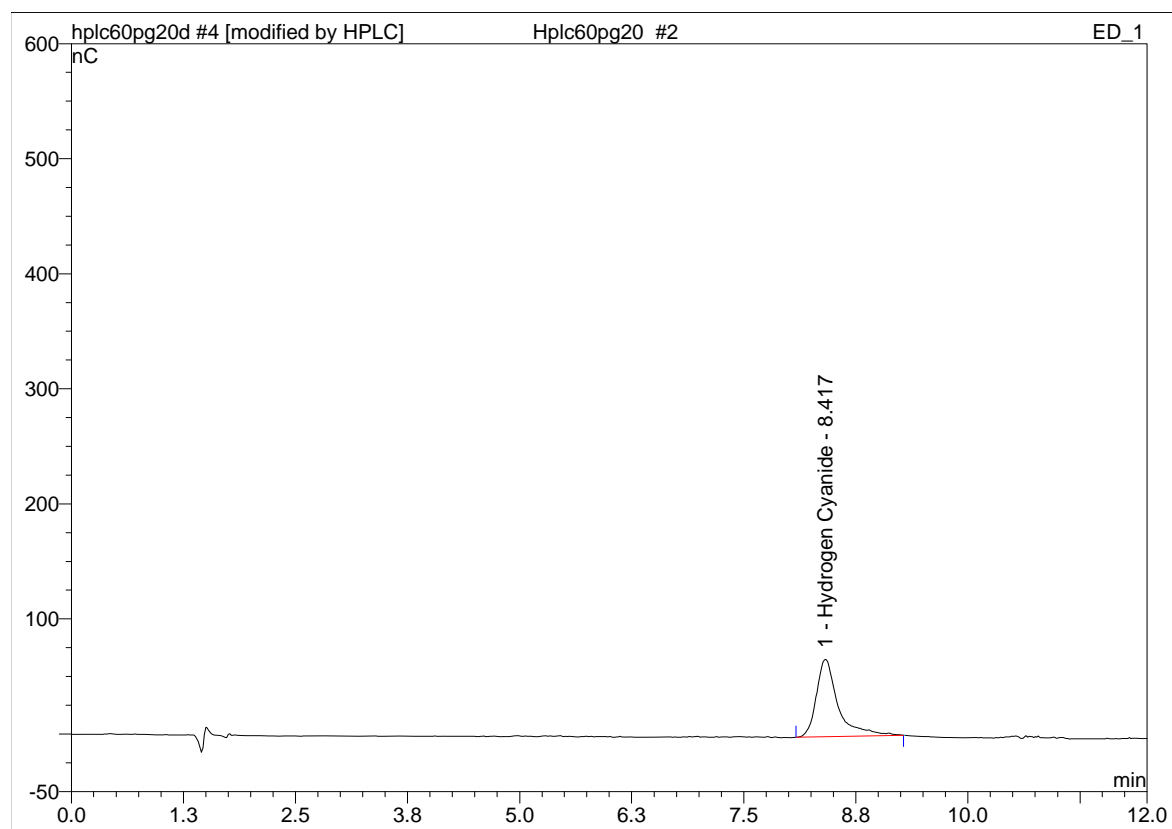


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.40	19.015	100.00	67.718	0.6256

* * * End of Report * * *

4 Hplc60pg20 #2

Injection Name	Hplc60pg20 #2	Injection Volume:	100.0
Vial Number:	2	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 11:38		
Run Time (min):	12.00		

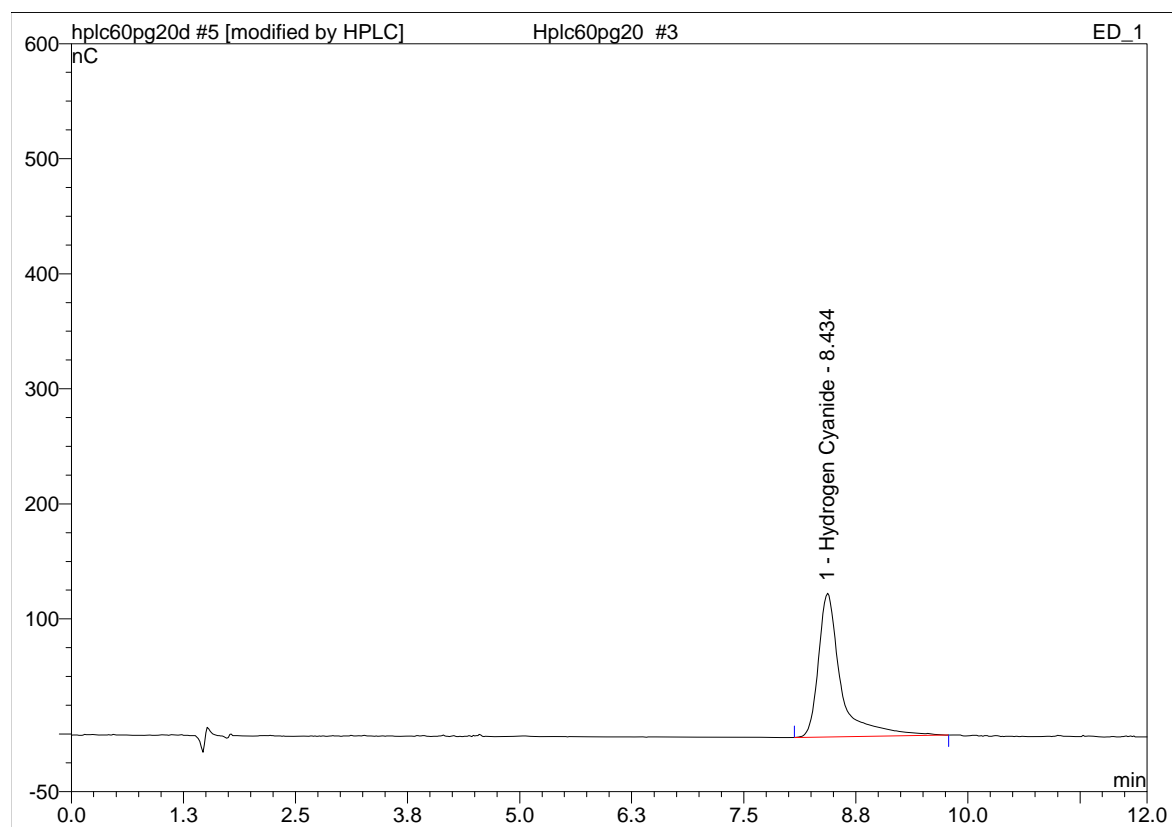


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.42	18.855	100.00	67.062	0.6203

* * * End of Report * * *

5 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	3	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 11:55		
Run Time (min):	12.00		

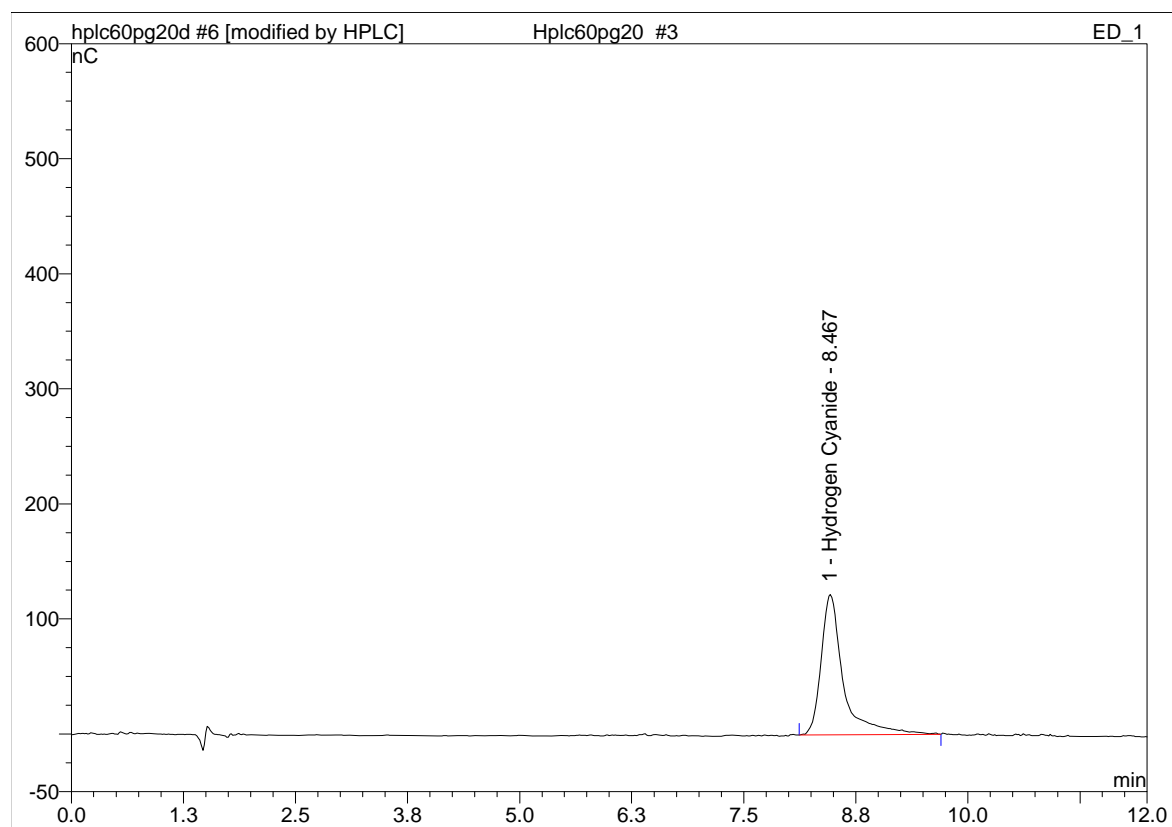


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.43	36.303	100.00	124.773	1.1944

* * * End of Report * * *

6 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	3	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 12:11		
Run Time (min):	12.00		

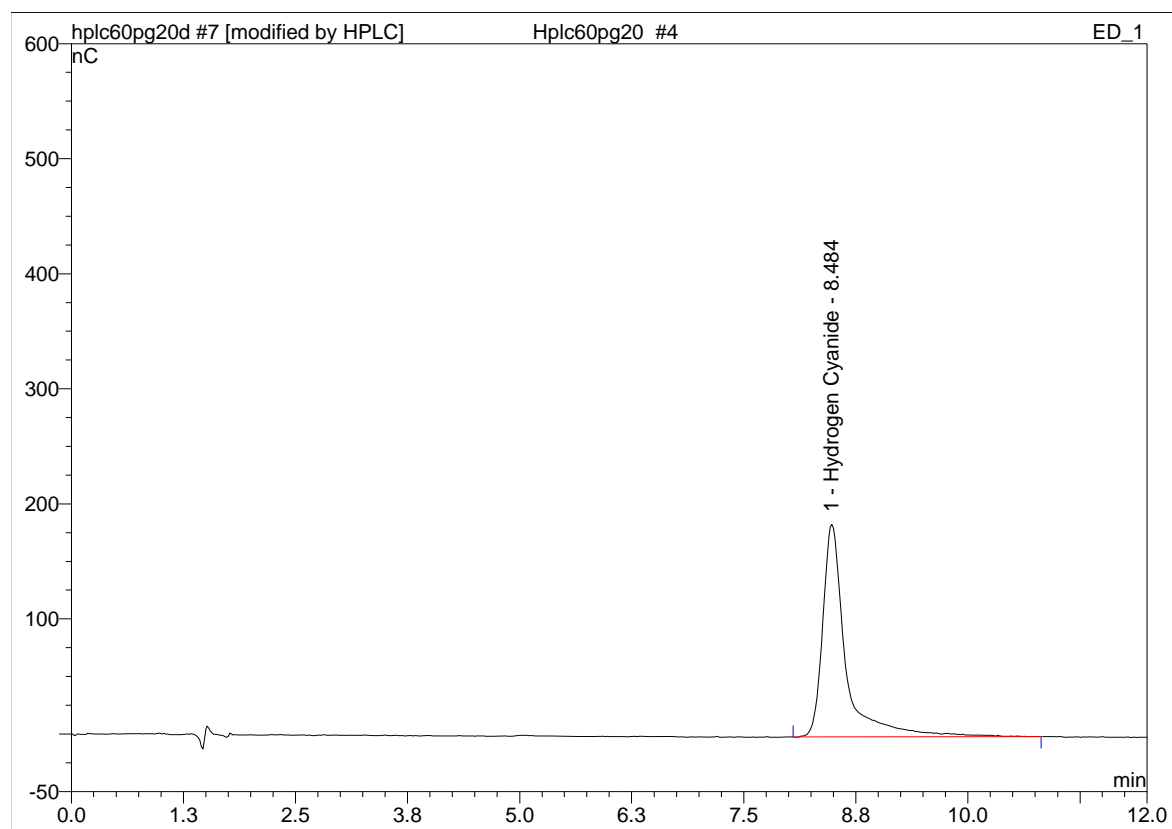


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.47	34.959	100.00	121.933	1.1501

* * * End of Report * * *

7 Hplc60pg20 #4

Injection Name	Hplc60pg20 #4	Injection Volume:	100.0
Vial Number:	4	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 12:30		
Run Time (min):	12.00		

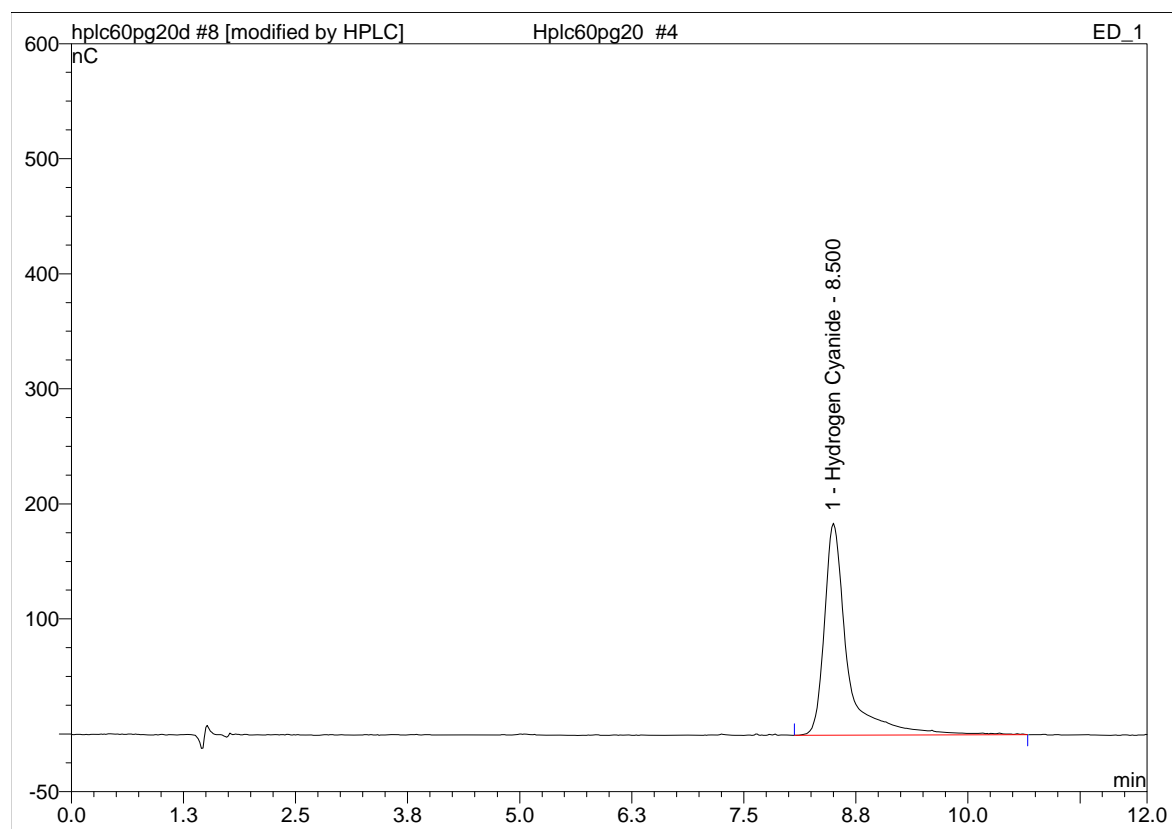


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.48	55.348	100.00	184.712	1.8209

* * * End of Report * * *

8 Hplc60pg20 #4

Injection Name	Hplc60pg20 #4	Injection Volume:	100.0
Vial Number:	4	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 12:47		
Run Time (min):	12.00		

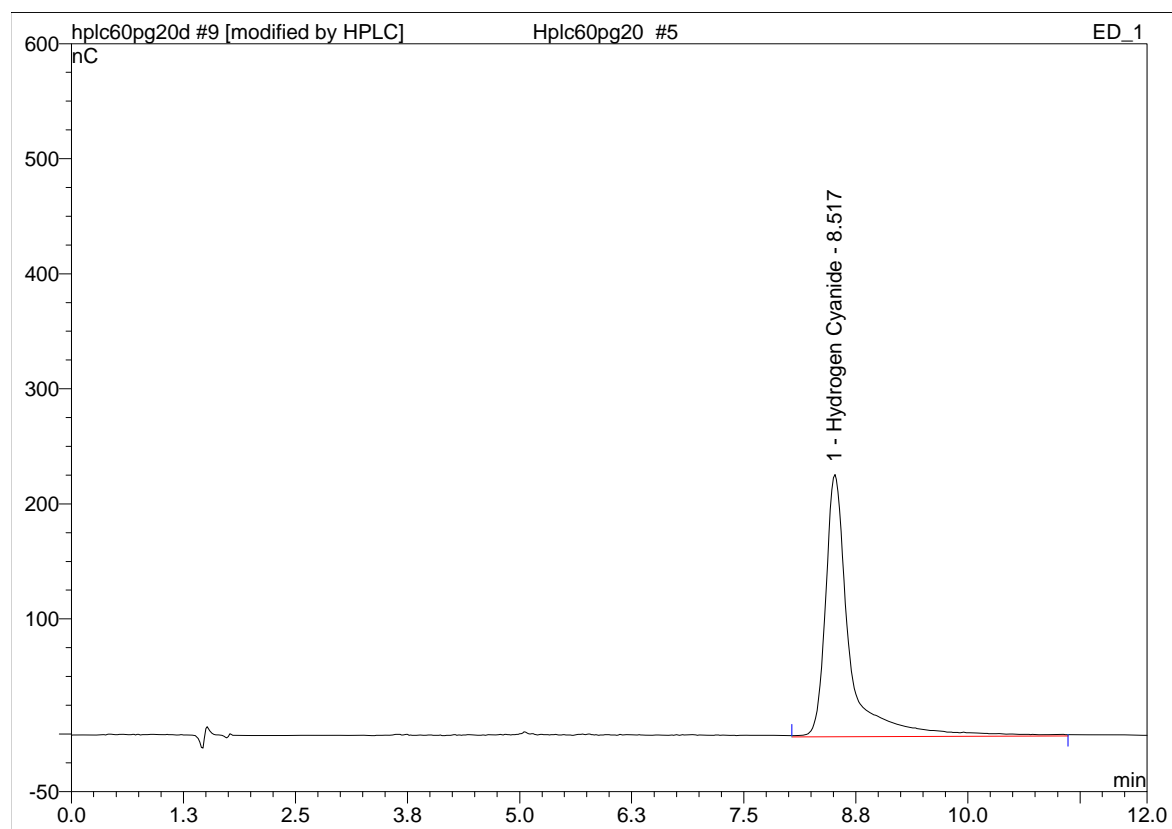


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.50	54.822	100.00	184.256	1.8036

* * * End of Report * * *

9 Hplc60pg20 #5

Injection Name	Hplc60pg20 #5	Injection Volume:	100.0
Vial Number:	5	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 13:04		
Run Time (min):	12.00		

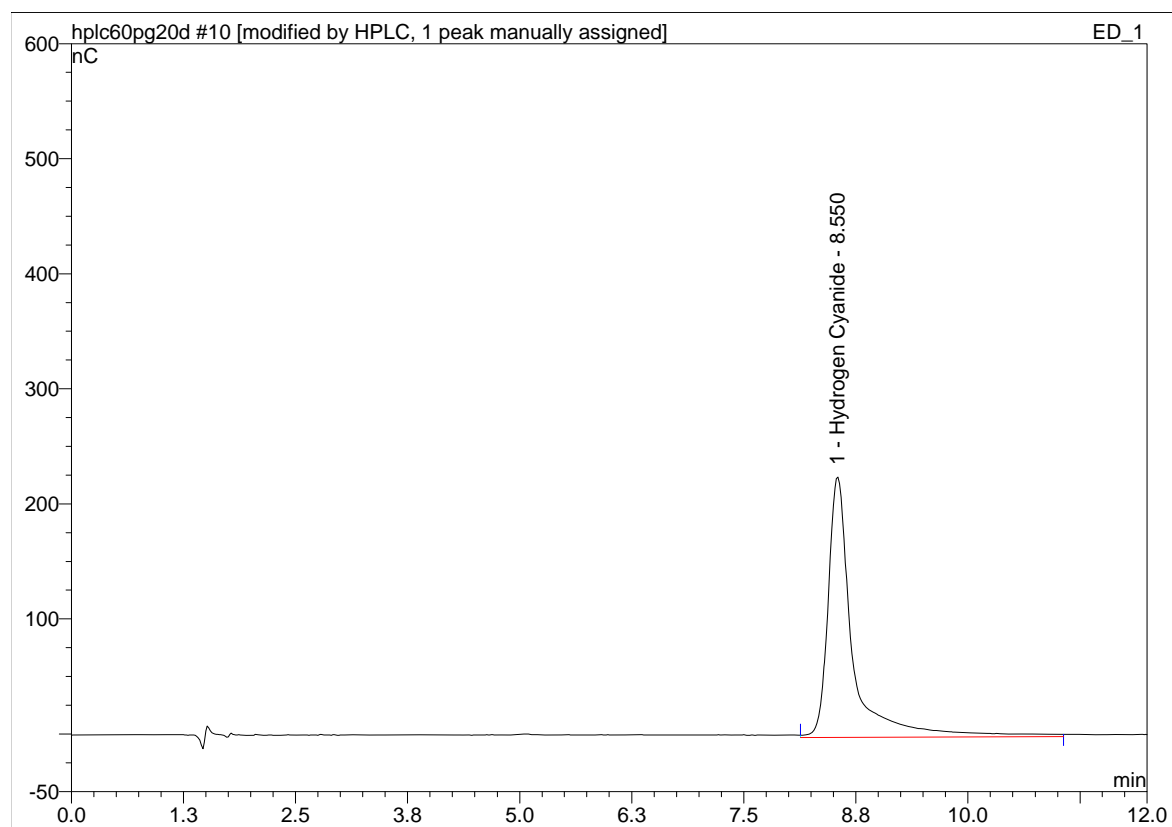


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.52	71.000	100.00	227.891	2.3358

* * * End of Report * * *

10 Hplc60pg20 #5

Injection Name	Hplc60pg20 #5	Injection Volume:	100.0
Vial Number:	5	Channel:	ED_1
Sample Type:	standard		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 13:21		
Run Time (min):	12.00		

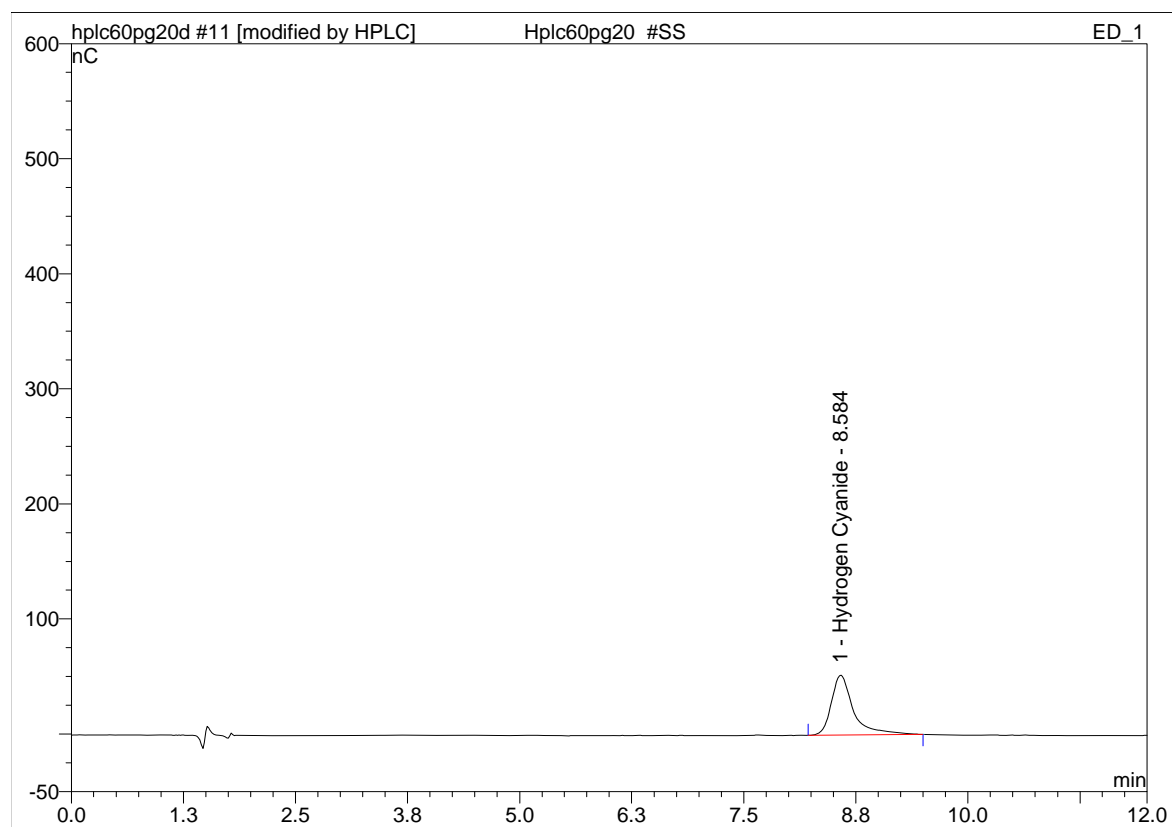


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.55	72.594	100.00	226.226	2.3883

* * * End of Report * * *

11 Hplc60pg20 #SS

Injection Name	Hplc60pg20 #SS	Injection Volume:	100.0
Vial Number:	6	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 13:37		
Run Time (min):	12.00		

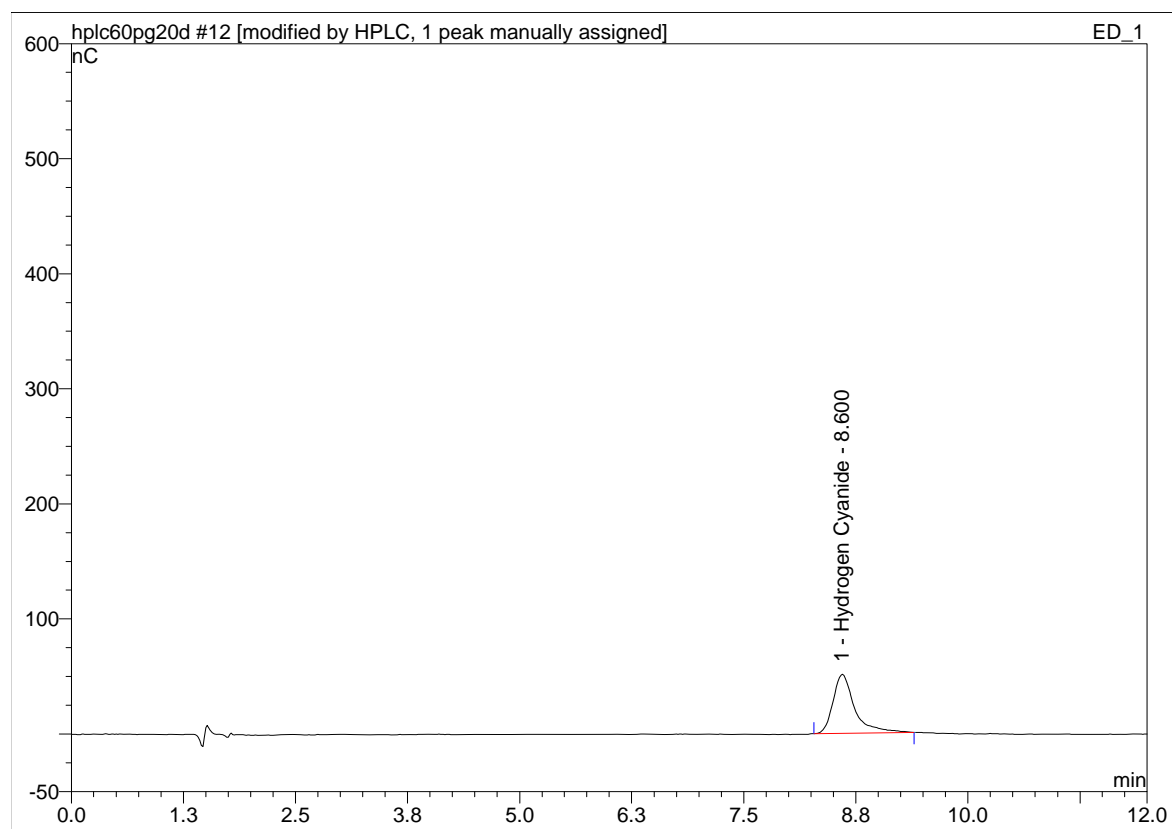


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.58	14.939	100.00	52.120	0.4915

* * * End of Report * * *

12 Hplc60pg20 #SS

Injection Name	Hplc60pg20 #SS	Injection Volume:	100.0
Vial Number:	6	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/6/2011 13:54		
Run Time (min):	12.00		

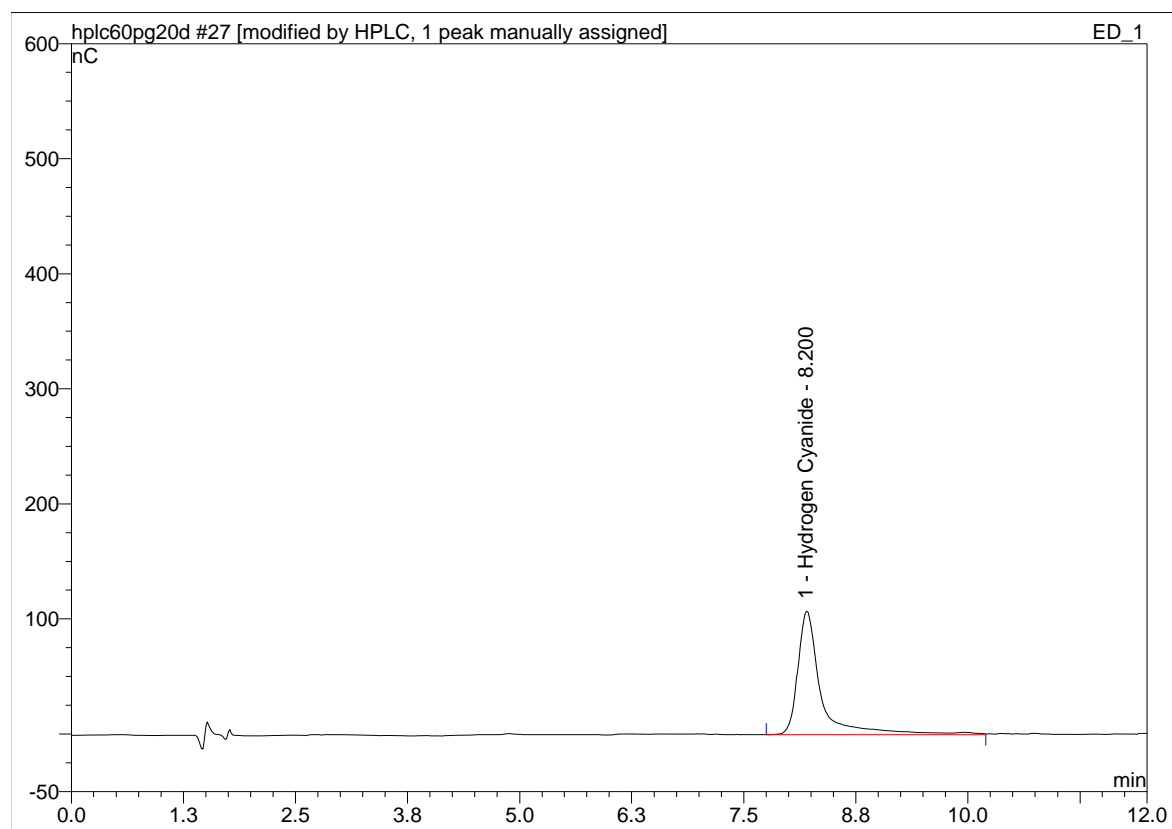


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.60	14.326	100.00	51.323	0.4713

* * * End of Report * * *

27 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	89	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 9:01		
Run Time (min):	12.00		

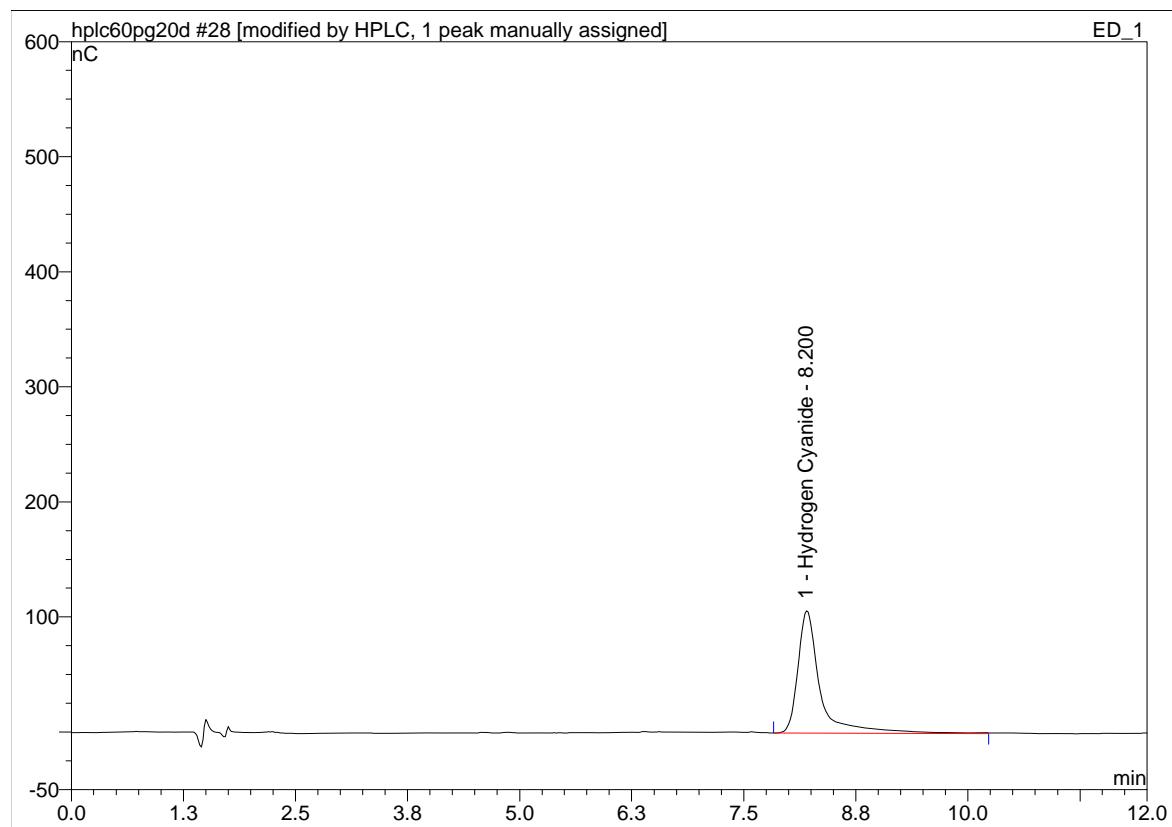


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.20	32.446	100.00	107.267	1.0675

* * * End of Report * * *

28 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	89	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 9:17		
Run Time (min):	12.00		

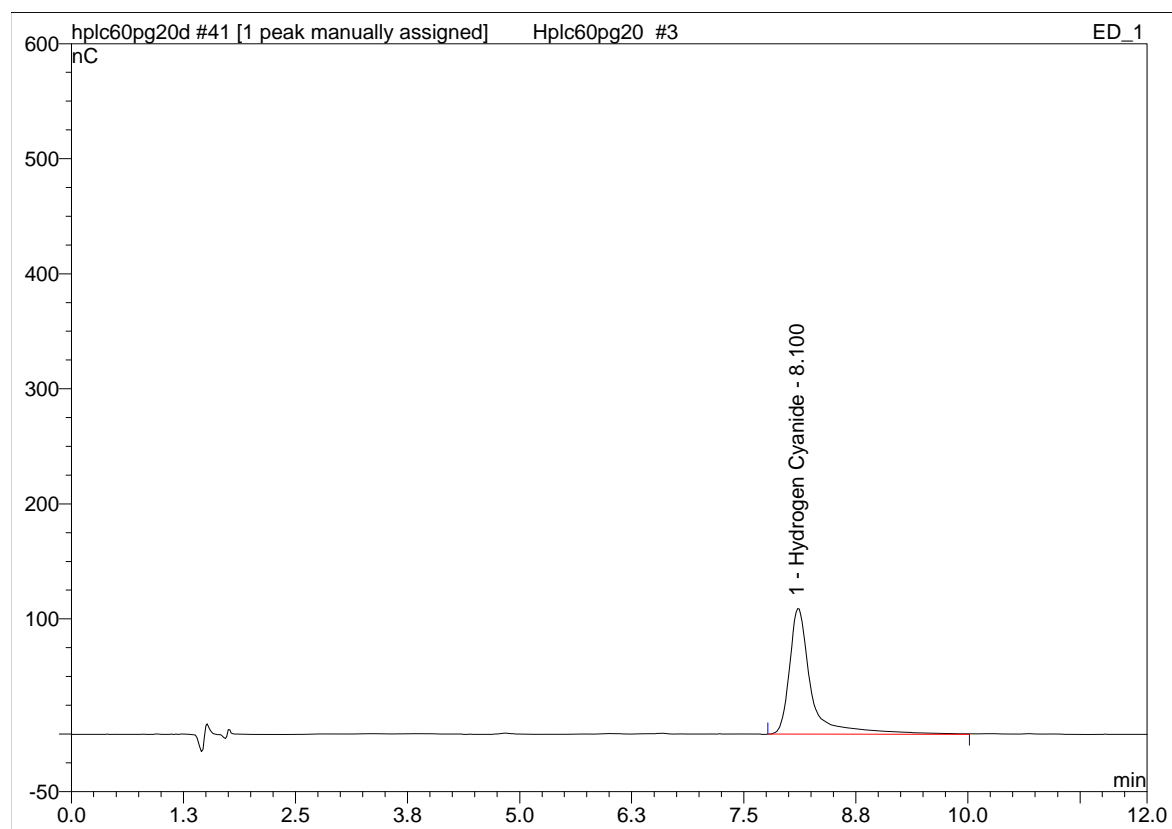


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.20	30.821	100.00	106.406	1.0140

* * * End of Report * * *

41 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	90	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 12:56		
Run Time (min):	12.00		

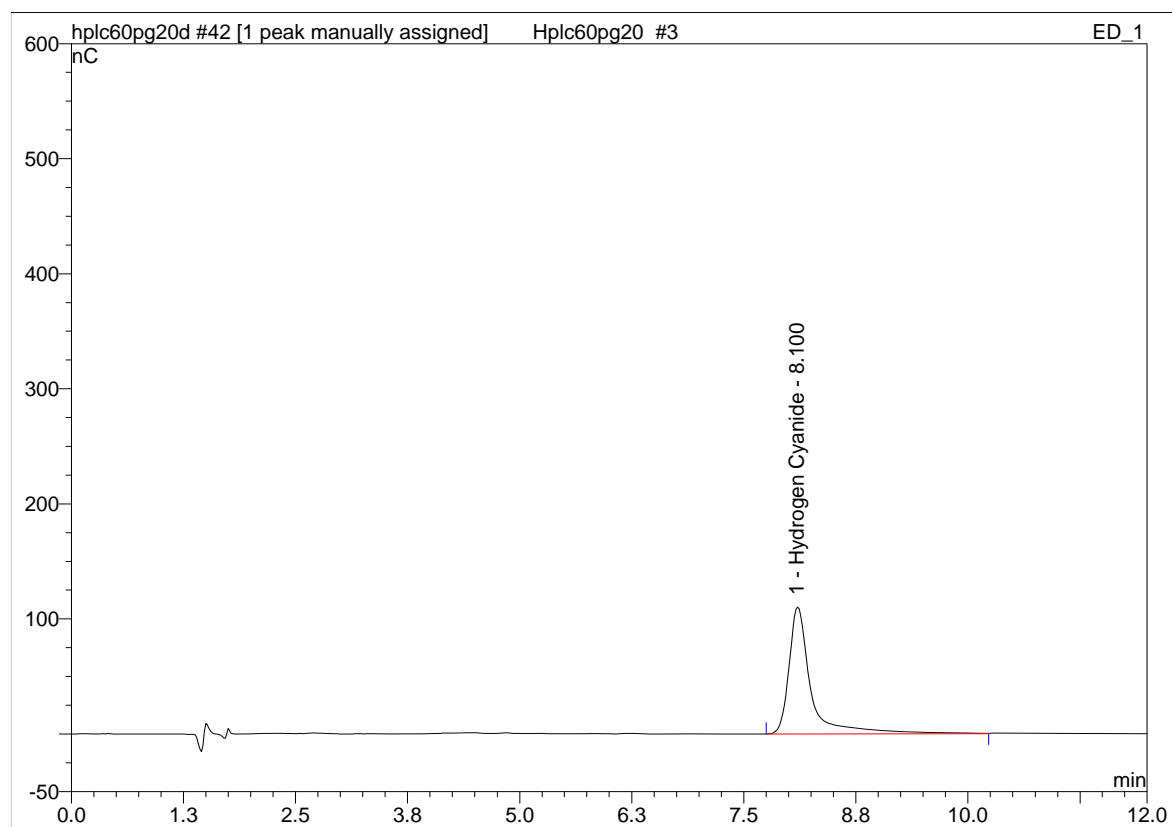


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.10	30.797	100.00	109.248	1.0132

* * * End of Report * * *

42 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	90	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 13:13		
Run Time (min):	12.00		

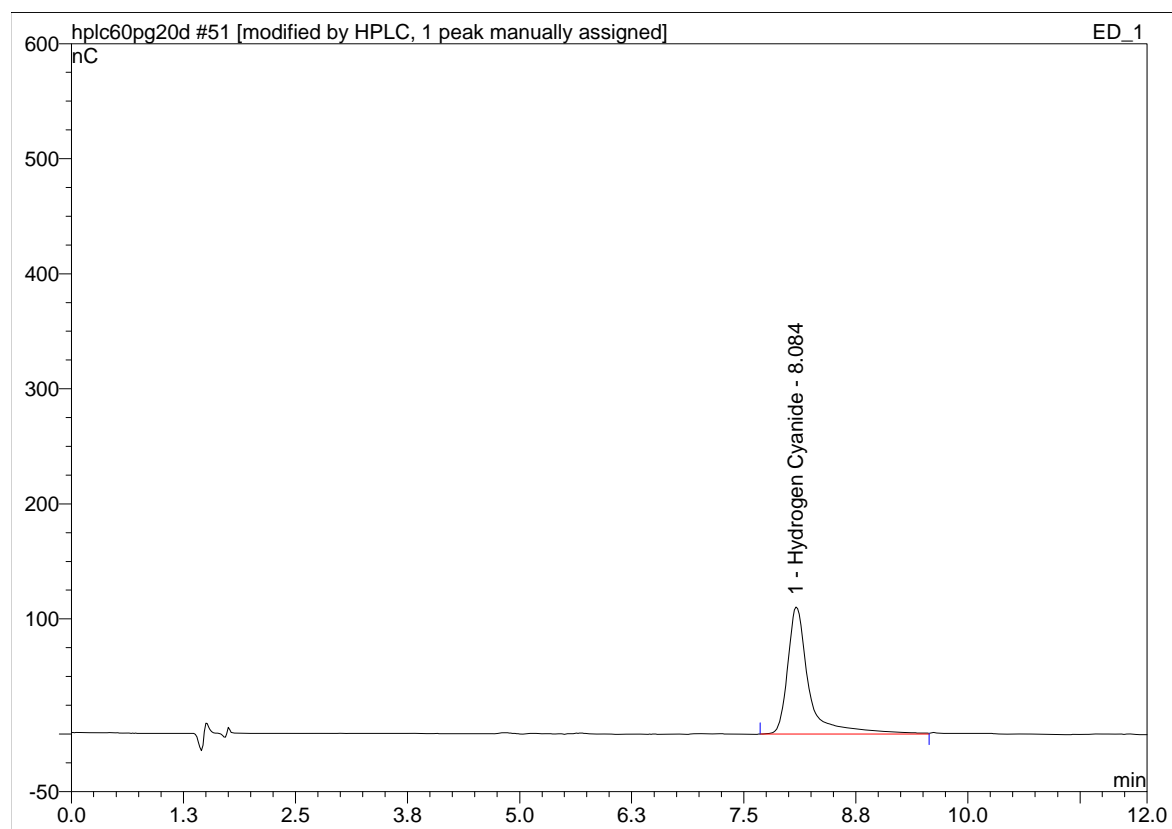


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.10	31.608	100.00	110.209	1.0399

* * * End of Report * * *

51 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	82	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 15:37		
Run Time (min):	12.00		

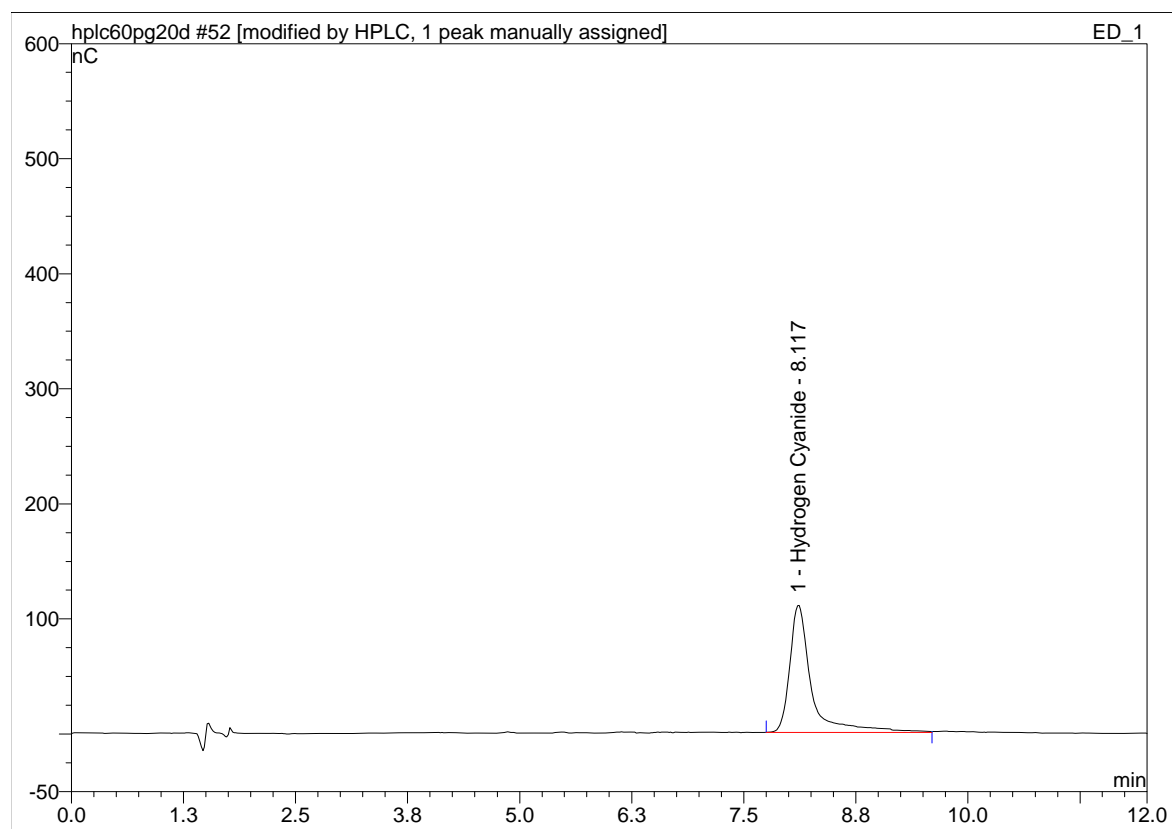


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.08	30.779	100.00	110.416	1.0126

* * * End of Report * * *

52 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	82	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 15:53		
Run Time (min):	12.00		

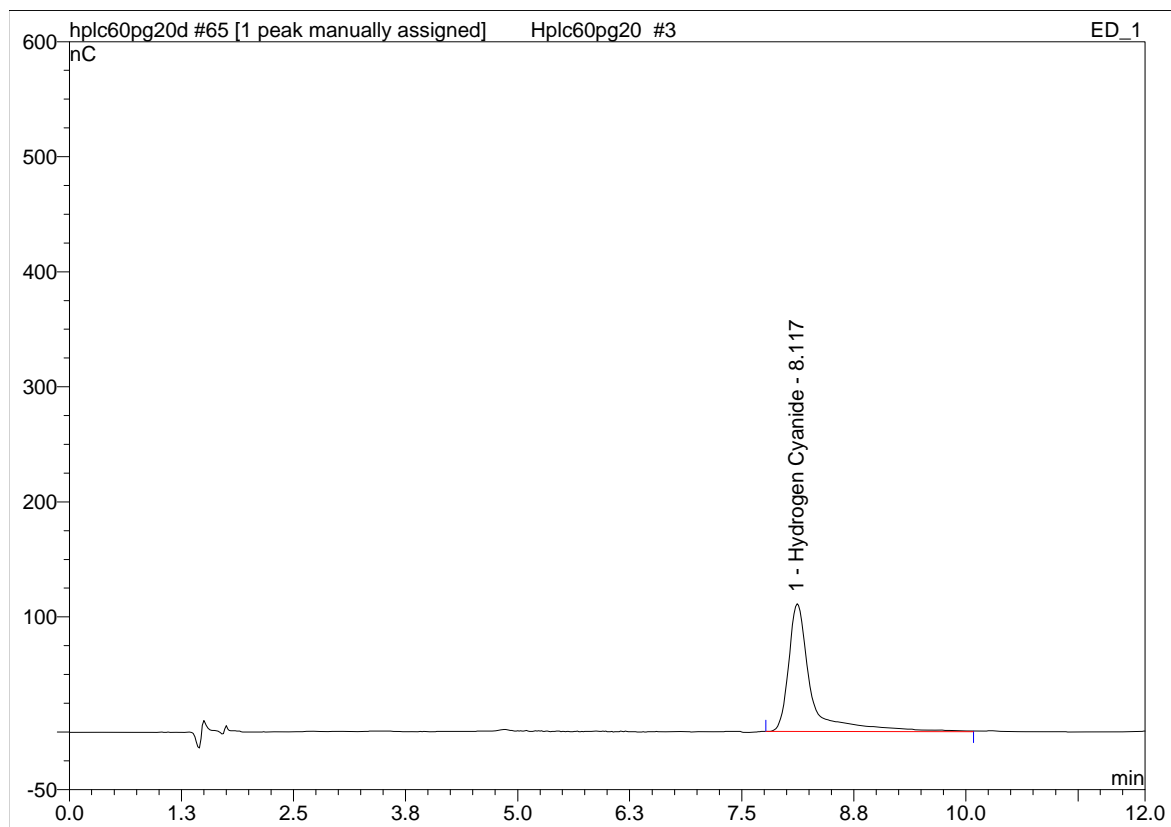


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.12	31.107	100.00	110.336	1.0234

* * * End of Report * * *

65 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	83	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 18:59		
Run Time (min):	12.00		

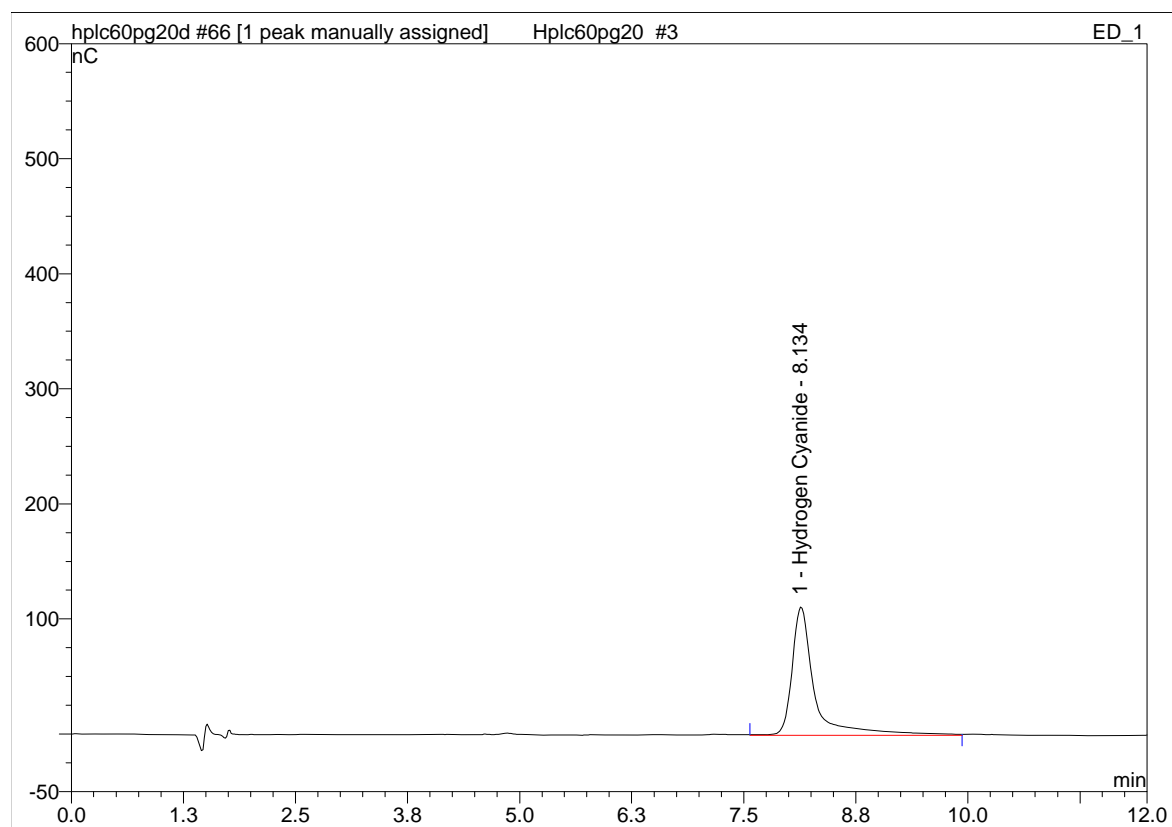


No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.12	32.297	100.00	110.879	1.0625

* * * End of Report * * *

66 Hplc60pg20 #3

Injection Name	Hplc60pg20 #3	Injection Volume:	100.0
Vial Number:	83	Channel:	ED_1
Sample Type:	unknown		
Control Program:	HCN-Back		
Quantif. Method:	HCN-method		
Recording Time:	9/7/2011 19:16		
Run Time (min):	12.00		



No.	Peak Name	Ret.Time (detected) min	Area nC*min	Rel.Area %	Height nC	Amount µg/mL
1	Hydrogen Cyanide	8.13	32.380	100.00	111.306	1.0653

* * * End of Report * * *

Program File: HCN-Back
Operator: HPLC

Commands, Page 1 of 2
Printed: 9/7/2011 1:11:00 PM

Title: HCN-Back
Datasource: EA380-DIONEX_local Created: 9/7/2011 8:50:00 AM by HPLC
Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ
Timebase: Flanders-Back

```
Sampler.AcquireExclusiveAccess
Sampler_DiverterValve.Position_1
Flush                               Volume = 250
Wait                               FlushState
Column_TC.AcquireExclusiveAccess
Compartment_TC.AcquireExclusiveAccess
Pressure.LowerLimit =              200 [psi]
Pressure.UpperLimit =             3000 [psi]
MaximumFlowRamp =                 1.00 [ml/min2]
%A.Equate =                       "%A"
%B.Equate =                       "%B"
%C.Equate =                       "0.1N NaOH/0.5M Sodium
Acetate"
%D.Equate =                       "%D"
NeedleHeight =                    2 [mm]
CutSegmentVolume =                15 [µl]
SyringeSpeed =                    4
CycleTime =                      0 [min]
WaitForTemperature =              False
Pump_1_Pressure.Step =            Auto
Pump_1_Pressure.Average =         On
EDet1.Mode =                     IntAmp
EDet1.CellControl =               = On
Data_Collection_Rate =           1.00 [Hz]
pH.UpperLimit =                  13.00
pH.LowerLimit =                  10.00
WaveformName = "HCN"
WaveformDescription = "HCN"
Electrode = AgCl
Waveform Time = 0.000, Potential = -0.100, GainRegion = Off,
Ramp = On, Integration = Off
Waveform Time = 0.093, Potential = -0.100, GainRegion = Off,
Ramp = On, Integration = Off
Waveform Time = 0.200, Potential = -0.100, GainRegion = On,
Ramp = On, Integration = On
Waveform Time = 0.900, Potential = -0.100, GainRegion = On,
Ramp = On, Integration = On
Waveform Time = 0.910, Potential = -1.250, GainRegion = Off,
Ramp = On, Integration = Off
Waveform Time = 0.930, Potential = -0.300, GainRegion = Off,
Ramp = On, Integration = Off
Waveform Time = 1.000, Potential = -0.300, GainRegion = Off,
Ramp = On, Integration = Off, LastStep = On
Flow =                            1.000 [ml/min]
```

Program File: HCN-Back
Operator: HPLC

Commands, Page 2 of 2
Printed: 9/7/2011 1:11:00 PM

Title: HCN-Back
Datasource: EA380-DIONEX_local Created: 9/7/2011 8:50:00 AM by HPLC
Location: Flanders-Back\2011 3rd Quarter\hplc60pg20\hplc60pg20d.SEQ
Timebase: Flanders-Back

```
%B = 0.0 [%]
%C = 100.0 [%]
%D = 0.0 [%]
Curve = 5
Column_TC.Mode = Off
Compartment_TC.Mode = Off
Wait SampleReady

0.000 EDet1.Autozero
      Load
      Wait CycleTimeState
      Inject
      Wait InjectState
      Pump_1_Pressure.AcqOn
      ED_1.AcqOn
      Sampler.ReleaseExclusiveAccess

12.000 Pump_1_Pressure.AcqOff
        ED_1.AcqOff
        Compartment_TC.ReleaseExclusiveAccess
        Column_TC.ReleaseExclusiveAccess

      End
```

**This Is The Last Page
Of This Report.**

Pace Analytical Services, Inc.

1700 Elm St. Suite 200
Minneapolis, MN 55414

FHR - ICR
Client # 1108-200

Analytical Report **(0811-18)**

EPA Method 202
Condensible Particulate Matter

EPA Method 201A
Particulate Matter



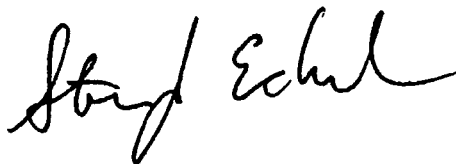
Enthalpy Analytical, Inc.

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
2202 Ellis Road Durham, NC 27703 - 5518

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 19 pages.



QA Review performed by: Steven J. Eckard

Report Issued: 08/26/2011



Summary of Results

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 201A

Client #	1108-200
Job #	0811-18
# Samples	3 Runs + Blanks

Compound	Sample ID / Particulate Matter (PM) Weight (mg)		
	T1R1	T1R2	T1R3
Net Filter Catch	10.6	7.6	6.2
Net Front Rinse	1.7	2.5	0.2
Total Particulate	12.3	10.2	6.4
	T1R0	T1R00	
Net Filter Catch	0.8	1.0	
Net Front Rinse	0.1	0.0	
Total Particulate	1.0	1.0	

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 202

Client #	1108-200
Job #	0811-18
# Samples	3 + Blanks

Compound	Sample ID / Condensible Particulate Matter (CPM) Weight (mg)		
	T1R1	T1R2	T1R3
Net Organic Catch	1.1	43.7	1.7
Corrected Inorganic	80.1	140.0	83.3
TB Corrected CPM	79.1	181.6	83.0
	T1R00		
Net Organic Catch	0.3		
Corrected Inorganic	1.2		
Non-TB Corrected CPM	1.5		
	Train Blank		
Organic Catch	2.3	If Train Blank Corrected CPM is >2.0 mg, then sample correction is 2.0 mg.	
Inorganic Catch	1.8		
CPM	4.2		

Results

EPA Method 201A - Particulate Determination - Data Analysis

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 201A

Client #	1108-200
Job #	0811-18
# Samples	3 + Blanks

Analysis of Particulate Recovery

Sample ID	T1R1		T1R2		T1R3		T1R0		T1R00	
Filter ID	<i>P6696</i>		<i>P6705</i>		<i>P6713</i>		<i>P6712</i>		<i>P6711</i>	
Filter tare (g)	0.1134		0.1123		0.1125		0.1125		0.1134	
Total tare (g)	0.1134	Dates	0.1123	Dates	0.1125	Dates	0.1125	Dates	0.1134	Dates
Final wt. (g) 1st	0.1241	8/16/11 A	0.1200	8/16/11 A	0.1187	8/16/11 A	0.1134	8/16/11 A	0.1145	8/16/11 A
Final wt. (g) 2nd	0.1240	8/16/11 P	0.1199	8/16/11 P	0.1187	8/16/11 P	0.1133	8/16/11 P	0.1144	8/16/11 P
Net filter catch (mg)	10.6		7.6		6.2		0.8		1.0	
Beaker number	<i>2145</i>	Dates	<i>2146</i>	Dates	<i>2147</i>	Dates	<i>2148</i>	Dates	<i>2149</i>	Dates
Final wt (g) 1st	2.2394	8/16/11 A	2.2618	8/16/11 A	2.2686	8/16/11 A	2.2598	8/16/11 A	2.2432	8/16/11 A
Final wt (g) 2nd	2.2393	8/16/11 P	2.2618	8/16/11 P	2.2685	8/16/11 P	2.2598	8/16/11 P	2.2432	8/16/11 P
Beaker tare (g)	2.2376		2.2593		2.2683		2.2596		2.2432	
Acetone blank (g)	0.0000		0.0000		0.0000		0.0000		0.0000	
Acetone vol (mL)	18.0		71.0		50.0		49.0		148	
Net front rinse (mg)	1.7		2.5		0.2		0.1		0.0	
Total particulate (mg)	12.3		10.2		6.4		1.0		1.0	

In-House Blank Acetone Analysis

Blank beaker number	2144	Dates		
Blank volume (mL)	200	Final wt (g) 1st	2.2556	8/16/11 A
Beaker tare (g)	2.2544	Final wt (g) 2nd	2.2556	8/16/11 P
Max acetone residue (g)	0.0016	Acetone residue (g)	0.0012	

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 202

Client #	1108-200
Job #	0811-18
# Samples	3 Runs + Blanks

Analysis of Condensible Particulate Recovery

Sample ID Number	Train Blank		T1R1		T1R2		T1R3	
Organic								
Beaker Number	2141		2138		2139		2140	
Initial Hexane/Acetone Volume, mL	98.0		184		224		178	
Lab Hexane Volume, mL	165	Dates	165	Dates	165	Dates	165	Dates
Final Weight, g	2.2424	8/16/11 A	2.2524	8/16/11 A	2.2957	8/16/11 A	2.2457	8/16/11 A
Reweigh, Final, g	2.2424	8/16/11 P	2.2524	8/16/11 P	2.2957	8/16/11 P	2.2457	8/16/11 P
Beaker Tare, g	2.2401	8/9/11	2.2513	8/9/11	2.2521	8/9/11	2.2440	8/9/11
Net Organic Catch, mg	2.3		1.1		43.7		1.7	
Inorganic								
Beaker Number	2228	Dates	2225	Dates	2226	Dates	2227	Dates
Final Weight, g	2.2526	8/16/11 A	2.3326	8/16/11 A	2.3850	8/16/11 A	2.3517	8/16/11 A
Reweigh, Final, g	2.2526	8/16/11 P	2.3326	8/16/11 P	2.3853	8/16/11 P	2.3517	8/16/11 P
Beaker Tare, g	2.2508	8/12/11	2.2530	8/12/11	2.2461	8/12/11	2.2689	8/12/11
Sample H2O volume, mL	225		370		445		365	
Added H2O, Filter Extraction, mL	75.0		75.0		75.0		75.0	
Removed Pre-aliquot, mL	0.5		0.5		0.5		0.5	
Pre-aliquot CF	1.002		1.001		1.001		1.001	
Resuspended Volume, mL	100		100		100		100	
Removed Post-aliquot, mL	0.5		0.5		0.5		0.5	
Post-aliquot CF	1.01		1.01		1.01		1.01	
Net Inorganic, mg	1.8		80.1		140.1		83.3	
Ammonium Correction, mg	0.0		0.0		0.1		0.0	
Corrected Inorganic, mg	1.8		80.1		140.0		83.3	
Condensible Particulate Matter, mg	4.2		81.1		183.6		85.0	
TB Corrected CPM, mg			79.1		181.6		83.0	

-----In-House Blank Analyses-----

Type Blank	Hexane		Type Blank	H2O Blank		Type Blank	Acetone	
Beaker Number	2143	Dates	Beaker Number	2230	Dates	Beaker Number	2144	Dates
Tare weight, g	2.2553	8/9/11	Tare weight, g	2.2508	8/12/11	Tare weight, g	2.2544	8/9/11
Dry Residue Weight, g	2.2567	8/16/11 A	Dry Residue Weight, g	2.2517	8/16/11 A	Dry Residue Weight, g	2.2556	8/16/11 A
Reweigh, Final, g	2.2567	8/16/11 P	Reweigh, Final, g	2.2517	8/16/11 P	Reweigh, Final, g	2.2556	8/16/11 P
Hexane Residue, g	0.0014		Water Residue, g	0.0009		Acetone Residue, g	0.0012	
Hexane Volume, mL	225		Water Volume, mL	250		Acetone Volume, mL	200	
Max. Hexane Residue, g	0.0022		Max. Water Residue, g	0.0025		Max. Acetone Residue, g	0.0016	

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 202

Client #	1108-200
Job #	0811-18
PO #	3 Runs + Blanks

Analysis of Condensible Particulate Recovery

Sample ID Number	T1R00	
<i>Organic</i>		
Beaker Number	2142	
Initial Hexane/Acetone Volume, mL	240	
Lab Hexane Volume, mL	165	Dates
Final Weight, g	2.2521	8/16/11 A
Reweigh, Final, g	2.2521	8/16/11 P
Beaker Tare, g	2.2518	8/9/11
Net Organic Catch, mg	0.3	
<i>Inorganic</i>		
Beaker Number	2229	Dates
Final Weight, g	2.2558	8/16/11 A
Reweigh, Final, g	2.2557	8/16/11 P
Beaker Tare, g	2.2546	8/12/11
Sample H2O volume, mL	340	
Added H2O, Filter Extraction, mL	75.0	
Removed Pre-aliquot, mL	0.5	
Pre-aliquot CF	1.001	
Resuspended Volume, mL	100	
Removed Post-aliquot, mL	0.5	
Post-aliquot CF	1.01	
Net Inorganic, mg	1.2	
Ammonium Correction, mg	0.0	
Corrected Inorganic, mg	1.2	
Condensible Particulate Matter, mg	1.5	
TB Corrected CPM, mg	-0.5	

-----In-House Blank Analyses-----

Type Blank	Hexane		Type Blank	H2O Blank		Type Blank	Acetone	
Beaker Number	2143	Dates	Beaker Number	2230	Dates	Beaker Number	2144	Dates
Tare weight, g	2.2553	8/9/11	Tare weight, g	2.2508	8/12/11	Tare weight, g	2.2544	8/9/11
Dry Residue Weight, g	2.2567	8/16/11 A	Dry Residue Weight, g	2.2517	8/16/11 A	Dry Residue Weight, g	2.2556	8/16/11 A
Reweigh, Final, g	2.2567	8/16/11 P	Reweigh, Final, g	2.2517	8/16/11 P	Reweigh, Final, g	2.2556	8/16/11 P
Hexane Residue, g	0.0014		Water Residue, g	0.0009		Acetone Residue, g	0.0012	
Hexane Volume, mL	225		Water Volume, mL	250		Acetone Volume, mL	200	
Max. Hexane Residue, g	0.0022		Max. Water Residue, g	0.0025		Max. Acetone Residue, g	0.0016	

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 202

Client #	1108-200
Job #	0811-18
# Samples	3 Runs + Blanks

MDL 0.09 (mg Ammonium)

MDL 0.26 (mg Sulfate)

Blank titrant amount (Vtb) 0.05

NH4OH normality 0.1

Lot # Sigma Aldrich 318620

Sample ID.	Volume Resuspended (mL)	Titration Aliquot Vol (mL)	NH ₄ OH Titration Vol (mL)	Aliquot Factor (mL rec'd/aliq mL)	SO ₄ Catch (mg)	Ammonium equivalent (mg)
Train Blank	100	99.5	0.06	1.01	0.26 ND	0.09 ND
T1R1	100	99.5	0.10	1.01	0.26 ND	0.09 ND
T1R2	100	99.5	0.12	1.01	0.34	0.12
T1R3	100	99.5	0.10	1.01	0.26 ND	0.09 ND
T1R00	100	99.5	0.05	1.01	0.26 ND	0.09 ND

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 201A

Client #	1108-200
Job #	0811-18
# Samples	3 runs and blanks

Custody

Lindsey Chatterton of Enthalpy Analytical, Inc. received the samples on 8/2/11 at 19.7°C after being relinquished by Pace Analytical Services, Inc. No apparent container problems were noted upon receipt. Prior to analysis, the samples were kept under lock with access only to authorized personnel of Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for particulate matter using the analytical procedures in EPA Method 201A, Determination of Particulate Matter (PM₁₀ and PM_{2.5}) Emissions from Stationary Sources.

The filter fractions were weighed on Balance 2 (Mettler Model AB265-S, serial # 1125163272) certified by Mettler Toledo through July 30, 2012.

The acetone fractions were weighed on Balance 8 (Sartorius Model ME 5-F, Serial # 23104965) certified by Mettler Toledo through July 30, 2012.

QC Notes

Two acetone blanks and two filter blanks were received and analyzed with these samples.

The catch weights are adjusted by a corresponding reagent blank correction value. A mathematically determined (theoretical) maximum value is calculated and compared with the actual value measured for the blank. The lower of the two values is used as the blank correction value, which is then factored by the sample volume divided by the blank volume, and subtracted from the sample catch weight.

All sample preparation and analytical holding times specified in the method were met.

Reporting Notes

Gravimetric analyses are typically accurate to ± 0.5 mg. Therefore, negative catch weights between 0 and -0.5 mg are set to zero and no investigation is undertaken. Negative catch weights < -0.5 mg are investigated.

These analyses met the requirements of the NELAC Standard. Any deviations from the requirements of the reference method and/or the NELAC Standard have been previously noted in this narrative. The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	KTH
Parameters	EPA Method 202

Client #	1108-200
Job #	0811-18
# Samples	3 Runs and Blanks

Custody

Lindsey Chatterton of Enthalpy Analytical, Inc. received the samples on 8/2/11 at 19.7°C after being relinquished by Pace Analytical Services, Inc. The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for Condensable Particulate Matter using the analytical procedures in EPA Method 202, Dry Impinger Method for Determining Condensible Particulate Emissions from Stationary Sources.

All samples were weighed on Balance 8 (Sartorius Model ME 5-F, Serial # 23104965) certified by Mettler Toledo through July 30, 2012.

QC Notes

A train blank was received with these samples.

The method specifies blank corrections are accomplished by subtracting the particulate mass determined in the 'Field Train Blank' or 2 mg (whichever is less) from the sample weight.

The inorganic results for the samples were corrected for the ammonium ions used to precipitate the sulfate, per the formula in the Method (Section 12.2.1).

When the pH of the samples was measured to be 7.0 or greater with the pH meter, no titrant was added.

Reporting Notes

Enthalpy Analytical, Inc. considers gravimetric analyses to be accurate to ± 0.5 mg. Therefore, negative catch weights between 0 and negative 0.5 mg are set to zero and no investigation is undertaken. Negative catch weights less than negative 0.5 mg are investigated.

These analyses met the requirements of the NELAC Standard. Any deviations from the requirements of the reference method and/or the NELAC Standard have been previously noted in this narrative.

The results presented in this report are representative of the samples as provided to the laboratory.



General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. data reports, unless specifically noted otherwise.

- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** following a value indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).
- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two extra spikes are prepared. The extras (randomly chosen) are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection and/or sample transport.



General Reporting Notes

(continued)

- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an “M”. There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations. The peak was *not integrated* by the software “**NI**”, the peak was *integrated incorrectly* by the software “**II**” or the *wrong peak* was integrated by the software “**WP**”. These codes will accompany the analyst’s manual integration stamp placed next to the compound name.

Sample Custody

**This Is The Last Page
Of This Report.**

Pace Analytical Services, Inc.

1700 Elm St. Suite 200
Minneapolis, MN 55414

FHR - ICR
Client #1108-200
PO #1108-200

Analytical Report
(0711-79)

EPA Method 8270C

SW-846 Method 8270C - SCAN Mode
PAHs - Selective Ion Mode



Enthalpy Analytical, Inc.

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
2202 Ellis Road Durham, NC 27703 - 5518

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 49 pages.



QA Review Performed by: Michael Steven Schapira

Report Issued: 9/9/11



Results (Scan)

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R1 *5**
Data File: W1102043.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	38.6	ND
Pyridine	79	NA	0	10.5	526	ND
Phenol (CCC)	94	NA	0	0.649	32.5	ND
Aniline	66	NA	0	0.694	34.7	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	39.4	ND
2-Chlorophenol	128	NA	0	0.624	31.2	ND
1,3-Dichlorobenzene	146	NA	0	0.558	27.9	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	26.4	ND
Benzyl alcohol	108	NA	0	0.700	35.0	ND
1,2-Dichlorobenzene	146	NA	0	0.558	27.9	ND
2-Methylphenol	107	NA	0	0.677	33.9	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	49.1	ND
3/4-Methylphenol	107	NA	0	0.591	29.5	ND
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	41.6	ND
o-Toluidine	106	NA	0	1.00	50.0	ND
Hexachloroethane	117	NA	0	0.632	31.6	ND
Nitrobenzene	77	NA	0	0.816	40.8	ND
Isophorone	82	NA	0	0.748	37.4	ND
2,4-Dimethylphenol	107	NA	0	0.729	36.4	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	33.5	ND
Benzoic acid	105	NA	0	11.6	578	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	36.6	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	32.6	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	50.0	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	30.9	ND
4-Chloroaniline	65	NA	0	0.849	42.4	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	30.5	ND
Quinoline	129	NA	0	1.00	50.0	ND
1,4-Phenylenediamine	108	NA	0	1.00	50.0	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	33.1	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	406	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	36.9	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	27.0	ND
Biphenyl	154	NA	0	1.00	50.0	ND
2-Chloronaphthalene	162	NA	0	0.652	32.6	ND
2-Nitroaniline	65	NA	0	0.966	48.3	ND
1,4-Dinitrobenzene	168	NA	0	0.672	33.6	ND
Dimethylphthalate	163	NA	0	0.809	40.5	ND
1,3-Dinitrobenzene	168	NA	0	0.819	40.9	ND
2,6-Dinitrotoluene	165	NA	0	0.775	38.8	ND
1,2-Dinitrobenzene	168	NA	0	0.777	38.9	ND
3-Nitroaniline	138	NA	0	0.816	40.8	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	253	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	289	ND
2,4-Dinitrotoluene	165	NA	0	0.804	40.2	ND
Dibenzofuran	168	NA	0	0.688	34.4	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	38.0	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	35.0	ND
Diethylphthalate	149	NA	0	1.02	51.0	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	37.7	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R1 *5**
Data File: W1102043.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	47.2	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	258	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	35.8	ND
Azobenzene	77	NA	0	0.991	49.6	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	33.5	ND
Hexachlorobenzene	284	NA	0	0.546	27.3	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	28.3	ND
Carbazole	167	NA	0	0.705	35.3	ND
Di-n-butylphthalate	149	NA	0	1.04	51.9	ND
Benzidine	184	NA	0	22.8	1,138	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	50.0	ND
Butylbenzylphthalate	149	NA	0	0.810	40.5	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	539	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	43.7	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	50.0	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	87.1	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	468	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	32.2	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	337,274	40.0	N/A		
Naphthalene-d8 (I)	136	7.63	1,240,681	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	510,099	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	698,275	40.0	N/A		
Chrysene-d12 (I)	240	18.9	843,695	40.0	N/A		
Perylene-d12 (I)	264	21.6	688,491	40.0	N/A		
2-Fluorophenol (surr)	112	5.03	20,740	2.00	50.0	200	PASS
Phenol-d5 (surr)	99	5.71	15,102	1.11	27.9	200	PASS
Nitrobenzene-d5 (surr)	82	6.70	13,731	1.00	50.1	100	PASS
2-Fluorobiphenyl (surr)	172	9.29	26,392	1.76	88.2	100	PASS
2,4,6-Tribromophenol (surr)	330	12.1	1,044	0.818	20.4	200	PASS
Terphenyl-d14 (surr)	244	16.7	21,680	2.00	100	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	459,264	337,274	Pass
Naphthalene-d8 (I)	7.64	7.63	1,700,058	1,240,681	Pass
Acenaphthene-d10 (I)	10.55	10.54	902,337	510,099	Pass
Phenanthrene-d10 (I)	13.45	13.44	1,461,904	698,275	Fail
Chrysene-d12 (I)	18.87	18.86	1,171,259	843,695	Pass
Perylene-d12 (I)	21.61	21.60	861,825	688,491	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R2 *5**
Data File: W1102034.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	38.6	ND
Pyridine	79	NA	0	10.5	526	ND
Phenol (CCC)	94	5.72	20,241	1.23	61.4	J
Aniline	66	NA	0	0.694	34.7	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	39.4	ND
2-Chlorophenol	128	NA	0	0.624	31.2	ND
1,3-Dichlorobenzene	146	NA	0	0.558	27.9	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	26.4	ND
Benzyl alcohol	108	NA	0	0.700	35.0	ND
1,2-Dichlorobenzene	146	NA	0	0.558	27.9	ND
2-Methylphenol	107	NA	0	0.677	33.9	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	49.1	ND
3/4-Methylphenol	107	6.45	11,476	0.891	44.5	J
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	41.6	ND
o-Toluidine	106	NA	0	1.00	50.0	ND
Hexachloroethane	117	NA	0	0.632	31.6	ND
Nitrobenzene	77	NA	0	0.816	40.8	ND
Isophorone	82	NA	0	0.748	37.4	ND
2,4-Dimethylphenol	107	NA	0	0.729	36.4	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	33.5	ND
Benzoic acid	105	NA	0	11.6	578	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	36.6	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	32.6	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	50.0	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	30.9	ND
4-Chloroaniline	65	NA	0	0.849	42.4	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	30.5	ND
Quinoline	129	NA	0	1.00	50.0	ND
1,4-Phenylenediamine	108	NA	0	1.00	50.0	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	33.1	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	406	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	36.9	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	27.0	ND
Biphenyl	154	NA	0	1.00	50.0	ND
2-Chloronaphthalene	162	NA	0	0.652	32.6	ND
2-Nitroaniline	65	NA	0	0.966	48.3	ND
1,4-Dinitrobenzene	168	NA	0	0.672	33.6	ND
Dimethylphthalate	163	NA	0	0.809	40.5	ND
1,3-Dinitrobenzene	168	NA	0	0.819	40.9	ND
2,6-Dinitrotoluene	165	NA	0	0.775	38.8	ND
1,2-Dinitrobenzene	168	NA	0	0.777	38.9	ND
3-Nitroaniline	138	NA	0	0.816	40.8	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	253	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	289	ND
2,4-Dinitrotoluene	165	NA	0	0.804	40.2	ND
Dibenzofuran	168	NA	0	0.688	34.4	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	38.0	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	35.0	ND
Diethylphthalate	149	NA	0	1.02	51.0	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	37.7	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R2 *5**
Data File: W1102034.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	47.2	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	258	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	35.8	ND
Azobenzene	77	NA	0	0.991	49.6	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	33.5	ND
Hexachlorobenzene	284	NA	0	0.546	27.3	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	28.3	ND
Carbazole	167	NA	0	0.705	35.3	ND
Di-n-butylphthalate	149	NA	0	1.04	51.9	ND
Benzidine	184	NA	0	22.8	1,138	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	50.0	ND
Butylbenzylphthalate	149	NA	0	0.810	40.5	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	539	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	43.7	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	50.0	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	87.1	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	468	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	32.2	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	399,493	40.0	N/A		
Naphthalene-d8 (I)	136	7.63	1,446,341	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	676,101	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	995,871	40.0	N/A		
Chrysene-d12 (I)	240	18.9	897,032	40.0	N/A		
Perylene-d12 (I)	264	21.6	772,578	40.0	N/A		
2-Fluorophenol (surr)	112	5.03	27,664	2.25	56.3	200	PASS
Phenol-d5 (surr)	99	5.70	26,283	1.64	40.9	200	PASS
Nitrobenzene-d5 (surr)	82	6.70	12,372	0.763	38.1	100	FAIL
2-Fluorobiphenyl (surr)	172	9.29	21,013	1.06	53.0	100	PASS
2,4,6-Tribromophenol (surr)	330	12.1	2,976	1.63	40.9	200	PASS
Terphenyl-d14 (surr)	244	16.7	14,634	0.947	47.3	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	459,264	399,493	Pass
Naphthalene-d8 (I)	7.64	7.63	1,700,058	1,446,341	Pass
Acenaphthene-d10 (I)	10.55	10.54	902,337	676,101	Pass
Phenanthrene-d10 (I)	13.45	13.45	1,461,904	995,871	Pass
Chrysene-d12 (I)	18.87	18.86	1,171,259	897,032	Pass
Perylene-d12 (I)	21.61	21.61	861,825	772,578	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R3 *5**
Data File: W1102035.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	38.6	ND
Pyridine	79	NA	0	10.5	526	ND
Phenol (CCC)	94	NA	0	0.649	32.5	ND
Aniline	66	NA	0	0.694	34.7	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	39.4	ND
2-Chlorophenol	128	NA	0	0.624	31.2	ND
1,3-Dichlorobenzene	146	NA	0	0.558	27.9	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	26.4	ND
Benzyl alcohol	108	NA	0	0.700	35.0	ND
1,2-Dichlorobenzene	146	NA	0	0.558	27.9	ND
2-Methylphenol	107	NA	0	0.677	33.9	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	49.1	ND
3/4-Methylphenol	107	NA	0	0.591	29.5	ND
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	41.6	ND
o-Toluidine	106	NA	0	1.00	50.0	ND
Hexachloroethane	117	NA	0	0.632	31.6	ND
Nitrobenzene	77	NA	0	0.816	40.8	ND
Isophorone	82	NA	0	0.748	37.4	ND
2,4-Dimethylphenol	107	NA	0	0.729	36.4	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	33.5	ND
Benzoic acid	105	NA	0	11.6	578	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	36.6	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	32.6	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	50.0	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	30.9	ND
4-Chloroaniline	65	NA	0	0.849	42.4	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	30.5	ND
Quinoline	129	NA	0	1.00	50.0	ND
1,4-Phenylenediamine	108	NA	0	1.00	50.0	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	33.1	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	406	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	36.9	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	27.0	ND
Biphenyl	154	NA	0	1.00	50.0	ND
2-Chloronaphthalene	162	NA	0	0.652	32.6	ND
2-Nitroaniline	65	NA	0	0.966	48.3	ND
1,4-Dinitrobenzene	168	NA	0	0.672	33.6	ND
Dimethylphthalate	163	NA	0	0.809	40.5	ND
1,3-Dinitrobenzene	168	NA	0	0.819	40.9	ND
2,6-Dinitrotoluene	165	NA	0	0.775	38.8	ND
1,2-Dinitrobenzene	168	NA	0	0.777	38.9	ND
3-Nitroaniline	138	NA	0	0.816	40.8	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	253	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	289	ND
2,4-Dinitrotoluene	165	NA	0	0.804	40.2	ND
Dibenzofuran	168	NA	0	0.688	34.4	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	38.0	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	35.0	ND
Diethylphthalate	149	NA	0	1.02	51.0	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	37.7	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R3 *5**
Data File: W1102035.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	47.2	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	258	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	35.8	ND
Azobenzene	77	NA	0	0.991	49.6	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	33.5	ND
Hexachlorobenzene	284	NA	0	0.546	27.3	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	28.3	ND
Carbazole	167	NA	0	0.705	35.3	ND
Di-n-butylphthalate	149	NA	0	1.04	51.9	ND
Benzidine	184	NA	0	22.8	1,138	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	50.0	ND
Butylbenzylphthalate	149	NA	0	0.810	40.5	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	539	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	43.7	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	50.0	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	87.1	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	468	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	32.2	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	356,647	40.0	N/A		
Naphthalene-d8 (I)	136	7.63	1,211,634	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	609,785	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	995,854	40.0	N/A		
Chrysene-d12 (I)	240	18.9	968,986	40.0	N/A		
Perylene-d12 (I)	264	21.6	785,346	40.0	N/A		
2-Fluorophenol (surr)	112	5.03	23,911	2.18	54.5	200	PASS
Phenol-d5 (surr)	99	5.71	19,041	1.33	33.2	200	PASS
Nitrobenzene-d5 (surr)	82	6.71	8,350	0.577	28.8	100	FAIL
2-Fluorobiphenyl (surr)	172	9.29	14,245	0.796	39.8	100	FAIL
2,4,6-Tribromophenol (surr)	330	12.1	2,282	1.25	31.3	200	PASS
Terphenyl-d14 (surr)	244	16.7	14,497	0.938	46.9	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	459,264	356,647	Pass
Naphthalene-d8 (I)	7.64	7.63	1,700,058	1,211,634	Pass
Acenaphthene-d10 (I)	10.55	10.54	902,337	609,785	Pass
Phenanthrene-d10 (I)	13.45	13.45	1,461,904	995,854	Pass
Chrysene-d12 (I)	18.87	18.86	1,171,259	968,986	Pass
Perylene-d12 (I)	21.61	21.61	861,825	785,346	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R3 *5 LD**
Data File: W1102036.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	% Diff
N-Nitrosodimethylamine	74	NA	0	0.772	38.6	ND	0.0
Pyridine	79	NA	0	10.5	526	ND	0.0
Phenol (CCC)	94	NA	0	0.649	32.5	ND	0.0
Aniline	66	NA	0	0.694	34.7	ND	0.0
bis(2-Chloroethyl)ether	63	NA	0	0.788	39.4	ND	0.0
2-Chlorophenol	128	NA	0	0.624	31.2	ND	0.0
1,3-Dichlorobenzene	146	NA	0	0.558	27.9	ND	0.0
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	26.4	ND	0.0
Benzyl alcohol	108	NA	0	0.700	35.0	ND	0.0
1,2-Dichlorobenzene	146	NA	0	0.558	27.9	ND	0.0
2-Methylphenol	107	NA	0	0.677	33.9	ND	0.0
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	49.1	ND	0.0
3/4-Methylphenol	107	NA	0	0.591	29.5	ND	0.0
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	41.6	ND	0.0
o-Toluidine	106	NA	0	1.00	50.0	ND	0.0
Hexachloroethane	117	NA	0	0.632	31.6	ND	0.0
Nitrobenzene	77	NA	0	0.816	40.8	ND	0.0
Isophorone	82	NA	0	0.748	37.4	ND	0.0
2,4-Dimethylphenol	107	NA	0	0.729	36.4	ND	0.0
2-Nitrophenol (CCC)	139	NA	0	0.669	33.5	ND	0.0
Benzoic acid	105	NA	0	11.6	578	ND	0.0
bis(2-Chloroethoxy)methane	93	NA	0	0.732	36.6	ND	0.0
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	32.6	ND	0.0
a,a-Dimethylphenethylamine	58	NA	0	1.00	50.0	ND	0.0
1,2,4-Trichlorobenzene	180	NA	0	0.617	30.9	ND	0.0
4-Chloroaniline	65	NA	0	0.849	42.4	ND	0.0
Hexachlorobutadiene (CCC)	225	NA	0	0.609	30.5	ND	0.0
Quinoline	129	NA	0	1.00	50.0	ND	0.0
1,4-Phenylenediamine	108	NA	0	1.00	50.0	ND	0.0
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	33.1	ND	0.0
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	406	ND	0.0
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	36.9	ND	0.0
2,4,5-Trichlorophenol	196	NA	0	0.541	27.0	ND	0.0
Biphenyl	154	NA	0	1.00	50.0	ND	0.0
2-Chloronaphthalene	162	NA	0	0.652	32.6	ND	0.0
2-Nitroaniline	65	NA	0	0.966	48.3	ND	0.0
1,4-Dinitrobenzene	168	NA	0	0.672	33.6	ND	0.0
Dimethylphthalate	163	NA	0	0.809	40.5	ND	0.0
1,3-Dinitrobenzene	168	NA	0	0.819	40.9	ND	0.0
2,6-Dinitrotoluene	165	NA	0	0.775	38.8	ND	0.0
1,2-Dinitrobenzene	168	NA	0	0.777	38.9	ND	0.0
3-Nitroaniline	138	NA	0	0.816	40.8	ND	0.0
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	253	ND	0.0
4-Nitrophenol (SPCC)	139	NA	0	5.78	289	ND	0.0
2,4-Dinitrotoluene	165	NA	0	0.804	40.2	ND	0.0
Dibenzofuran	168	NA	0	0.688	34.4	ND	0.0
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	38.0	ND	0.0
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	35.0	ND	0.0
Diethylphthalate	149	NA	0	1.02	51.0	ND	0.0
4-Chlorophenyl-phenylether	204	NA	0	0.754	37.7	ND	0.0

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **R3 *5 LD**
Data File: W1102036.D
Tank/Misc ID: 0711-79

DF: 5.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	% Diff
4-Nitroaniline	138	NA	0	0.943	47.2	ND	0.0
4,6-Dinitro2-methylphenol	198	NA	0	5.16	258	ND	0.0
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	35.8	ND	0.0
Azobenzene	77	NA	0	0.991	49.6	ND	0.0
4-Bromophenyl-phenylether	248	NA	0	0.671	33.5	ND	0.0
Hexachlorobenzene	284	NA	0	0.546	27.3	ND	0.0
Pentachlorophenol (CCC)	266	NA	0	0.565	28.3	ND	0.0
Carbazole	167	NA	0	0.705	35.3	ND	0.0
Di-n-butylphthalate	149	NA	0	1.04	51.9	ND	0.0
Benzidine	184	NA	0	22.8	1,138	ND	0.0
4-Dimethylaminoazobenzene	120	NA	0	1.00	50.0	ND	0.0
Butylbenzylphthalate	149	NA	0	0.810	40.5	ND	0.0
3,3-Dimethylbenzidine	212	NA	0	10.8	539	ND	0.0
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	43.7	ND	0.0
3,3-Dimethoxybenzidine	244	NA	0	1.00	50.0	ND	0.0
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	87.1	ND	0.0
3,3'-Dichlorobenzidine	252	NA	0	9.36	468	ND	0.0
Di-n-octylphthalate (CCC)	149	NA	0	0.644	32.2	ND	0.0

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	387,045	40.0	N/A		
Naphthalene-d8 (I)	136	7.63	1,375,927	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	684,491	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	1,032,729	40.0	N/A		
Chrysene-d12 (I)	240	18.9	1,013,151	40.0	N/A		
Perylene-d12 (I)	264	21.6	857,842	40.0	N/A		
2-Fluorophenol (surr)	112	5.03	26,225	2.20	55.1	200	PASS
Phenol-d5 (surr)	99	5.70	21,817	1.40	35.1	200	PASS
Nitrobenzene-d5 (surr)	82	6.71	9,188	0.585	29.2	100	FAIL
2-Fluorobiphenyl (surr)	172	9.28	16,718	0.833	41.6	100	PASS
2,4,6-Tribromophenol (surr)	330	12.0	2,385	1.26	31.6	200	PASS
Terphenyl-d14 (surr)	244	16.7	15,211	0.949	47.5	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	459,264	387,045	Pass
Naphthalene-d8 (I)	7.64	7.63	1,700,058	1,375,927	Pass
Acenaphthene-d10 (I)	10.55	10.54	902,337	684,491	Pass
Phenanthrene-d10 (I)	13.45	13.45	1,461,904	1,032,729	Pass
Chrysene-d12 (I)	18.87	18.86	1,171,259	1,013,151	Pass
Perylene-d12 (I)	21.61	21.61	861,825	857,842	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **RO**
Data File: W1102030.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	3.86	ND
Pyridine	79	NA	0	10.5	52.6	ND
Phenol (CCC)	94	NA	0	0.649	3.25	ND
Aniline	66	NA	0	0.694	3.47	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	3.94	ND
2-Chlorophenol	128	NA	0	0.624	3.12	ND
1,3-Dichlorobenzene	146	NA	0	0.558	2.79	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	2.64	ND
Benzyl alcohol	108	NA	0	0.700	3.50	ND
1,2-Dichlorobenzene	146	NA	0	0.558	2.79	ND
2-Methylphenol	107	NA	0	0.677	3.39	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	4.91	ND
3/4-Methylphenol	107	NA	0	0.591	2.95	ND
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	4.16	ND
o-Toluidine	106	NA	0	1.00	5.00	ND
Hexachloroethane	117	NA	0	0.632	3.16	ND
Nitrobenzene	77	NA	0	0.816	4.08	ND
Isophorone	82	NA	0	0.748	3.74	ND
2,4-Dimethylphenol	107	NA	0	0.729	3.64	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	3.35	ND
Benzoic acid	105	NA	0	11.6	57.8	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	3.66	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	3.26	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	5.00	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	3.09	ND
4-Chloroaniline	65	NA	0	0.849	4.24	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	3.05	ND
Quinoline	129	NA	0	1.00	5.00	ND
1,4-Phenylenediamine	108	NA	0	1.00	5.00	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	3.31	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	40.6	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	3.69	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	2.70	ND
Biphenyl	154	NA	0	1.00	5.00	ND
2-Chloronaphthalene	162	NA	0	0.652	3.26	ND
2-Nitroaniline	65	NA	0	0.966	4.83	ND
1,4-Dinitrobenzene	168	NA	0	0.672	3.36	ND
Dimethylphthalate	163	NA	0	0.809	4.05	ND
1,3-Dinitrobenzene	168	NA	0	0.819	4.09	ND
2,6-Dinitrotoluene	165	NA	0	0.775	3.88	ND
1,2-Dinitrobenzene	168	NA	0	0.777	3.89	ND
3-Nitroaniline	138	NA	0	0.816	4.08	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	25.3	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	28.9	ND
2,4-Dinitrotoluene	165	NA	0	0.804	4.02	ND
Dibenzofuran	168	NA	0	0.688	3.44	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	3.80	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	3.50	ND
Diethylphthalate	149	NA	0	1.02	5.10	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	3.77	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **RO**
Data File: W1102030.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	4.72	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	25.8	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	3.58	ND
Azobenzene	77	NA	0	0.991	4.96	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	3.35	ND
Hexachlorobenzene	284	NA	0	0.546	2.73	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	2.83	ND
Carbazole	167	NA	0	0.705	3.53	ND
Di-n-butylphthalate	149	NA	0	1.04	5.19	ND
Benzidine	184	NA	0	22.8	114	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	5.00	ND
Butylbenzylphthalate	149	NA	0	0.810	4.05	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	53.9	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	4.37	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	5.00	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	8.71	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	46.8	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	3.22	ND

					Spk Rec. (%)	Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.14	165,789	40.0	N/A		
Naphthalene-d8 (I)	136	7.64	75,728	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	143,336	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	757,034	40.0	N/A		
Chrysene-d12 (I)	240	18.9	879,667	40.0	N/A		
Perylene-d12 (I)	264	21.6	839,189	40.0	N/A		
2-Fluorophenol (surr)	112	0.00	0	0.0100	0.0250	200	FAIL
Phenol-d5 (surr)	99	0.00	0	0.0100	0.0250	200	FAIL
Nitrobenzene-d5 (surr)	82	6.71	3,075	0.457	2.28	100	FAIL
2-Fluorobiphenyl (surr)	172	9.29	7,768	1.85	9.24	100	FAIL
2,4,6-Tribromophenol (surr)	330	12.1	45,110	32.6	81.5	200	PASS
Terphenyl-d14 (surr)	244	16.7	218,304	18.6	92.9	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.14	459,264	165,789	Fail
Naphthalene-d8 (I)	7.64	7.64	1,700,058	75,728	Fail
Acenaphthene-d10 (I)	10.55	10.54	902,337	143,336	Fail
Phenanthrene-d10 (I)	13.45	13.44	1,461,904	757,034	Pass
Chrysene-d12 (I)	18.87	18.86	1,171,259	879,667	Pass
Perylene-d12 (I)	21.61	21.61	861,825	839,189	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **RO (Conf)**
Data File: W1102041.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	3.86	ND
Pyridine	79	NA	0	10.5	52.6	ND
Phenol (CCC)	94	NA	0	0.649	3.25	ND
Aniline	66	NA	0	0.694	3.47	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	3.94	ND
2-Chlorophenol	128	NA	0	0.624	3.12	ND
1,3-Dichlorobenzene	146	NA	0	0.558	2.79	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	2.64	ND
Benzyl alcohol	108	NA	0	0.700	3.50	ND
1,2-Dichlorobenzene	146	NA	0	0.558	2.79	ND
2-Methylphenol	107	NA	0	0.677	3.39	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	4.91	ND
3/4-Methylphenol	107	NA	0	0.591	2.95	ND
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	4.16	ND
o-Toluidine	106	NA	0	1.00	5.00	ND
Hexachloroethane	117	NA	0	0.632	3.16	ND
Nitrobenzene	77	NA	0	0.816	4.08	ND
Isophorone	82	NA	0	0.748	3.74	ND
2,4-Dimethylphenol	107	NA	0	0.729	3.64	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	3.35	ND
Benzoic acid	105	NA	0	11.6	57.8	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	3.66	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	3.26	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	5.00	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	3.09	ND
4-Chloroaniline	65	NA	0	0.849	4.24	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	3.05	ND
Quinoline	129	NA	0	1.00	5.00	ND
1,4-Phenylenediamine	108	NA	0	1.00	5.00	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	3.31	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	40.6	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	3.69	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	2.70	ND
Biphenyl	154	NA	0	1.00	5.00	ND
2-Chloronaphthalene	162	NA	0	0.652	3.26	ND
2-Nitroaniline	65	NA	0	0.966	4.83	ND
1,4-Dinitrobenzene	168	NA	0	0.672	3.36	ND
Dimethylphthalate	163	NA	0	0.809	4.05	ND
1,3-Dinitrobenzene	168	NA	0	0.819	4.09	ND
2,6-Dinitrotoluene	165	NA	0	0.775	3.88	ND
1,2-Dinitrobenzene	168	NA	0	0.777	3.89	ND
3-Nitroaniline	138	NA	0	0.816	4.08	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	25.3	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	28.9	ND
2,4-Dinitrotoluene	165	NA	0	0.804	4.02	ND
Dibenzofuran	168	NA	0	0.688	3.44	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	3.80	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	3.50	ND
Diethylphthalate	149	NA	0	1.02	5.10	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	3.77	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **RO (Conf)**
Data File: W1102041.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	4.72	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	25.8	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	3.58	ND
Azobenzene	77	NA	0	0.991	4.96	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	3.35	ND
Hexachlorobenzene	284	NA	0	0.546	2.73	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	2.83	ND
Carbazole	167	NA	0	0.705	3.53	ND
Di-n-butylphthalate	149	NA	0	1.04	5.19	ND
Benzidine	184	NA	0	22.8	114	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	5.00	ND
Butylbenzylphthalate	149	NA	0	0.810	4.05	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	53.9	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	4.37	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	5.00	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	8.71	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	46.8	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	3.22	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.14	230,957	40.0	N/A		
Naphthalene-d8 (I)	136	7.64	92,655	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	105,994	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	736,847	40.0	N/A		
Chrysene-d12 (I)	240	18.9	870,746	40.0	N/A		
Perylene-d12 (I)	264	21.6	726,204	40.0	N/A		
2-Fluorophenol (surr)	112	5.07	3,234	0.455	1.14	200	FAIL
Phenol-d5 (surr)	99	5.73	3,238	0.349	0.872	200	FAIL
Nitrobenzene-d5 (surr)	82	6.71	8,968	0.956	4.78	100	FAIL
2-Fluorobiphenyl (surr)	172	9.29	15,815	5.09	25.4	100	FAIL
2,4,6-Tribromophenol (surr)	330	12.0	47,125	35.0	87.4	200	PASS
Terphenyl-d14 (surr)	244	16.7	263,630	23.1	115	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.14	459,264	230,957	Pass
Naphthalene-d8 (I)	7.64	7.64	1,700,058	92,655	Fail
Acenaphthene-d10 (I)	10.55	10.54	902,337	105,994	Fail
Phenanthrene-d10 (I)	13.45	13.44	1,461,904	736,847	Pass
Chrysene-d12 (I)	18.87	18.86	1,171,259	870,746	Pass
Perylene-d12 (I)	21.61	21.61	861,825	726,204	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 MB-1**
Data File: W1102023.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	3.86	ND
Pyridine	79	NA	0	10.5	52.6	ND
Phenol (CCC)	94	NA	0	0.649	3.25	ND
Aniline	66	NA	0	0.694	3.47	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	3.94	ND
2-Chlorophenol	128	NA	0	0.624	3.12	ND
1,3-Dichlorobenzene	146	NA	0	0.558	2.79	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	2.64	ND
Benzyl alcohol	108	NA	0	0.700	3.50	ND
1,2-Dichlorobenzene	146	NA	0	0.558	2.79	ND
2-Methylphenol	107	NA	0	0.677	3.39	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	4.91	ND
3/4-Methylphenol	107	NA	0	0.591	2.95	ND
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	4.16	ND
o-Toluidine	106	NA	0	1.00	5.00	ND
Hexachloroethane	117	NA	0	0.632	3.16	ND
Nitrobenzene	77	NA	0	0.816	4.08	ND
Isophorone	82	NA	0	0.748	3.74	ND
2,4-Dimethylphenol	107	NA	0	0.729	3.64	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	3.35	ND
Benzoic acid	105	NA	0	11.6	57.8	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	3.66	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	3.26	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	5.00	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	3.09	ND
4-Chloroaniline	65	NA	0	0.849	4.24	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	3.05	ND
Quinoline	129	NA	0	1.00	5.00	ND
1,4-Phenylenediamine	108	NA	0	1.00	5.00	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	3.31	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	40.6	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	3.69	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	2.70	ND
Biphenyl	154	NA	0	1.00	5.00	ND
2-Chloronaphthalene	162	NA	0	0.652	3.26	ND
2-Nitroaniline	65	NA	0	0.966	4.83	ND
1,4-Dinitrobenzene	168	NA	0	0.672	3.36	ND
Dimethylphthalate	163	NA	0	0.809	4.05	ND
1,3-Dinitrobenzene	168	NA	0	0.819	4.09	ND
2,6-Dinitrotoluene	165	NA	0	0.775	3.88	ND
1,2-Dinitrobenzene	168	NA	0	0.777	3.89	ND
3-Nitroaniline	138	NA	0	0.816	4.08	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	25.3	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	28.9	ND
2,4-Dinitrotoluene	165	NA	0	0.804	4.02	ND
Dibenzofuran	168	NA	0	0.688	3.44	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	3.80	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	3.50	ND
Diethylphthalate	149	NA	0	1.02	5.10	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	3.77	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 MB-1**
Data File: W1102023.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	4.72	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	25.8	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	3.58	ND
Azobenzene	77	NA	0	0.991	4.96	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	3.35	ND
Hexachlorobenzene	284	NA	0	0.546	2.73	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	2.83	ND
Carbazole	167	NA	0	0.705	3.53	ND
Di-n-butylphthalate	149	NA	0	1.04	5.19	ND
Benzidine	184	NA	0	22.8	114	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	5.00	ND
Butylbenzylphthalate	149	NA	0	0.810	4.05	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	53.9	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	4.37	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	5.00	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	8.71	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	46.8	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	3.22	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	429,772	40.0	N/A		
Naphthalene-d8 (I)	136	7.63	1,512,685	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	812,771	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	774,970	40.0	N/A		
Chrysene-d12 (I)	240	18.9	918,976	40.0	N/A		
Perylene-d12 (I)	264	21.6	831,520	40.0	N/A		
2-Fluorophenol (surr)	112	5.03	392,858	29.7	74.3	200	PASS
Phenol-d5 (surr)	99	5.70	464,795	26.9	67.3	200	PASS
Nitrobenzene-d5 (surr)	82	6.70	247,124	14.2	70.8	100	PASS
2-Fluorobiphenyl (surr)	172	9.29	428,557	18.0	89.9	100	PASS
2,4,6-Tribromophenol (surr)	330	12.0	32,022	22.6	56.5	200	PASS
Terphenyl-d14 (surr)	244	16.7	286,733	23.8	119	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	409,866	429,772	Pass
Naphthalene-d8 (I)	7.64	7.63	1,483,698	1,512,685	Pass
Acenaphthene-d10 (I)	10.55	10.54	727,745	812,771	Pass
Phenanthrene-d10 (I)	13.45	13.45	1,167,067	774,970	Pass
Chrysene-d12 (I)	18.87	18.86	1,040,272	918,976	Pass
Perylene-d12 (I)	21.61	21.61	820,599	831,520	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **CH2CI2 SCN BLK**
Data File: W1102021.D
Tank/Misc ID:

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	3.86	ND
Pyridine	79	NA	0	10.5	52.6	ND
Phenol (CCC)	94	NA	0	0.649	3.25	ND
Aniline	66	NA	0	0.694	3.47	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	3.94	ND
2-Chlorophenol	128	NA	0	0.624	3.12	ND
1,3-Dichlorobenzene	146	NA	0	0.558	2.79	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	2.64	ND
Benzyl alcohol	108	NA	0	0.700	3.50	ND
1,2-Dichlorobenzene	146	NA	0	0.558	2.79	ND
2-Methylphenol	107	NA	0	0.677	3.39	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	4.91	ND
3/4-Methylphenol	107	NA	0	0.591	2.95	ND
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	4.16	ND
o-Toluidine	106	NA	0	1.00	5.00	ND
Hexachloroethane	117	NA	0	0.632	3.16	ND
Nitrobenzene	77	NA	0	0.816	4.08	ND
Isophorone	82	NA	0	0.748	3.74	ND
2,4-Dimethylphenol	107	NA	0	0.729	3.64	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	3.35	ND
Benzoic acid	105	NA	0	11.6	57.8	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	3.66	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	3.26	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	5.00	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	3.09	ND
4-Chloroaniline	65	NA	0	0.849	4.24	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	3.05	ND
Quinoline	129	NA	0	1.00	5.00	ND
1,4-Phenylenediamine	108	NA	0	1.00	5.00	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	3.31	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	40.6	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	3.69	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	2.70	ND
Biphenyl	154	NA	0	1.00	5.00	ND
2-Chloronaphthalene	162	NA	0	0.652	3.26	ND
2-Nitroaniline	65	NA	0	0.966	4.83	ND
1,4-Dinitrobenzene	168	NA	0	0.672	3.36	ND
Dimethylphthalate	163	NA	0	0.809	4.05	ND
1,3-Dinitrobenzene	168	NA	0	0.819	4.09	ND
2,6-Dinitrotoluene	165	NA	0	0.775	3.88	ND
1,2-Dinitrobenzene	168	NA	0	0.777	3.89	ND
3-Nitroaniline	138	NA	0	0.816	4.08	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	25.3	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	28.9	ND
2,4-Dinitrotoluene	165	NA	0	0.804	4.02	ND
Dibenzofuran	168	NA	0	0.688	3.44	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	3.80	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	3.50	ND
Diethylphthalate	149	NA	0	1.02	5.10	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	3.77	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **CH2CI2 SCN BLK**
Data File: W1102021.D
Tank/Misc ID:

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	4.72	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	25.8	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	3.58	ND
Azobenzene	77	NA	0	0.991	4.96	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	3.35	ND
Hexachlorobenzene	284	NA	0	0.546	2.73	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	2.83	ND
Carbazole	167	NA	0	0.705	3.53	ND
Di-n-butylphthalate	149	NA	0	1.04	5.19	ND
Benzidine	184	NA	0	22.8	114	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	5.00	ND
Butylbenzylphthalate	149	NA	0	0.810	4.05	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	53.9	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	4.37	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	5.00	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	8.71	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	46.8	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	3.22	ND

					Spk Rec. (%)	Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	405,166	40.0	N/A		
Naphthalene-d8 (I)	136	7.63	1,410,688	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	767,905	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	764,821	40.0	N/A		
Chrysene-d12 (I)	240	18.9	966,785	40.0	N/A		
Perylene-d12 (I)	264	21.6	874,129	40.0	N/A		

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	409,866	405,166	Pass
Naphthalene-d8 (I)	7.64	7.63	1,483,698	1,410,688	Pass
Acenaphthene-d10 (I)	10.55	10.54	727,745	767,905	Pass
Phenanthrene-d10 (I)	13.45	13.45	1,167,067	764,821	Pass
Chrysene-d12 (I)	18.87	18.86	1,040,272	966,785	Pass
Perylene-d12 (I)	21.61	21.61	820,599	874,129	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **CH2CI2 SCN BLK**
Data File: W1102029.D
Tank/Misc ID:

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
N-Nitrosodimethylamine	74	NA	0	0.772	3.86	ND
Pyridine	79	NA	0	10.5	52.6	ND
Phenol (CCC)	94	NA	0	0.649	3.25	ND
Aniline	66	NA	0	0.694	3.47	ND
bis(2-Chloroethyl)ether	63	NA	0	0.788	3.94	ND
2-Chlorophenol	128	NA	0	0.624	3.12	ND
1,3-Dichlorobenzene	146	NA	0	0.558	2.79	ND
1,4-Dichlorobenzene (CCC)	146	NA	0	0.528	2.64	ND
Benzyl alcohol	108	NA	0	0.700	3.50	ND
1,2-Dichlorobenzene	146	NA	0	0.558	2.79	ND
2-Methylphenol	107	NA	0	0.677	3.39	ND
bis(2-Chloroisopropyl) ether	45	NA	0	0.982	4.91	ND
3/4-Methylphenol	107	NA	0	0.591	2.95	ND
N-Nitroso-di-n-propylamine (SPCC)	70	NA	0	0.832	4.16	ND
o-Toluidine	106	NA	0	1.00	5.00	ND
Hexachloroethane	117	NA	0	0.632	3.16	ND
Nitrobenzene	77	NA	0	0.816	4.08	ND
Isophorone	82	NA	0	0.748	3.74	ND
2,4-Dimethylphenol	107	NA	0	0.729	3.64	ND
2-Nitrophenol (CCC)	139	NA	0	0.669	3.35	ND
Benzoic acid	105	NA	0	11.6	57.8	ND
bis(2-Chloroethoxy)methane	93	NA	0	0.732	3.66	ND
2,4-Dichlorophenol (CCC)	162	NA	0	0.652	3.26	ND
a,a-Dimethylphenethylamine	58	NA	0	1.00	5.00	ND
1,2,4-Trichlorobenzene	180	NA	0	0.617	3.09	ND
4-Chloroaniline	65	NA	0	0.849	4.24	ND
Hexachlorobutadiene (CCC)	225	NA	0	0.609	3.05	ND
Quinoline	129	NA	0	1.00	5.00	ND
1,4-Phenylenediamine	108	NA	0	1.00	5.00	ND
4-Chloro-3 methylphenol (CCC)	107	NA	0	0.661	3.31	ND
Hexachlorocyclopentadiene (SPCC)	237	NA	0	8.12	40.6	ND
2,4,6-Trichlorophenol (CCC)	196	NA	0	0.738	3.69	ND
2,4,5-Trichlorophenol	196	NA	0	0.541	2.70	ND
Biphenyl	154	NA	0	1.00	5.00	ND
2-Chloronaphthalene	162	NA	0	0.652	3.26	ND
2-Nitroaniline	65	NA	0	0.966	4.83	ND
1,4-Dinitrobenzene	168	NA	0	0.672	3.36	ND
Dimethylphthalate	163	NA	0	0.809	4.05	ND
1,3-Dinitrobenzene	168	NA	0	0.819	4.09	ND
2,6-Dinitrotoluene	165	NA	0	0.775	3.88	ND
1,2-Dinitrobenzene	168	NA	0	0.777	3.89	ND
3-Nitroaniline	138	NA	0	0.816	4.08	ND
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	25.3	ND
4-Nitrophenol (SPCC)	139	NA	0	5.78	28.9	ND
2,4-Dinitrotoluene	165	NA	0	0.804	4.02	ND
Dibenzofuran	168	NA	0	0.688	3.44	ND
2,3,5,6-Tetrachlorophenol	232	NA	0	0.761	3.80	ND
2,3,4,6-Tetrachlorophenol	232	NA	0	0.701	3.50	ND
Diethylphthalate	149	NA	0	1.02	5.10	ND
4-Chlorophenyl-phenylether	204	NA	0	0.754	3.77	ND

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **CH2CI2 SCN BLK**
Data File: W1102029.D
Tank/Misc ID:

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags
4-Nitroaniline	138	NA	0	0.943	4.72	ND
4,6-Dinitro2-methylphenol	198	NA	0	5.16	25.8	ND
N-Nitrosodiphenylamine (CCC)	169	NA	0	0.716	3.58	ND
Azobenzene	77	NA	0	0.991	4.96	ND
4-Bromophenyl-phenylether	248	NA	0	0.671	3.35	ND
Hexachlorobenzene	284	NA	0	0.546	2.73	ND
Pentachlorophenol (CCC)	266	NA	0	0.565	2.83	ND
Carbazole	167	NA	0	0.705	3.53	ND
Di-n-butylphthalate	149	NA	0	1.04	5.19	ND
Benzidine	184	NA	0	22.8	114	ND
4-Dimethylaminoazobenzene	120	NA	0	1.00	5.00	ND
Butylbenzylphthalate	149	NA	0	0.810	4.05	ND
3,3-Dimethylbenzidine	212	NA	0	10.8	53.9	ND
bis(2-Ethylhexyl)adipate	129	NA	0	0.874	4.37	ND
3,3-Dimethoxybenzidine	244	NA	0	1.00	5.00	ND
bis(2-Ethylhexyl)phthalate	149	NA	0	1.74	8.71	ND
3,3'-Dichlorobenzidine	252	NA	0	9.36	46.8	ND
Di-n-octylphthalate (CCC)	149	NA	0	0.644	3.22	ND

					Spk	Flags
					Rec. (%)	Amt
1,4-Dichlorobenzene-d4 (I)	152	6.13	395,710	40.0	N/A	
Naphthalene-d8 (I)	136	7.63	1,417,998	40.0	N/A	
Acenaphthene-d10 (I)	164	10.5	757,211	40.0	N/A	
Phenanthrene-d10 (I)	188	13.4	780,366	40.0	N/A	
Chrysene-d12 (I)	240	18.9	863,784	40.0	N/A	
Perylene-d12 (I)	264	21.6	778,310	40.0	N/A	

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	459,264	395,710	Pass
Naphthalene-d8 (I)	7.64	7.63	1,700,058	1,417,998	Pass
Acenaphthene-d10 (I)	10.55	10.54	902,337	757,211	Pass
Phenanthrene-d10 (I)	13.45	13.44	1,461,904	780,366	Pass
Chrysene-d12 (I)	18.87	18.86	1,171,259	863,784	Pass
Perylene-d12 (I)	21.61	21.61	861,825	778,310	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 LCS-1**
Data File: W1102019.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	Tag Value (ug)	% Rec
N-Nitrosodimethylamine	74	4.07	184,740	17.0	85.2		100	85.2
Pyridine	79	4.13	250,632	13.3	66.4		100	66.4
Phenol (CCC)	94	5.72	327,980	17.7	88.5		100	88.5
Aniline	66	5.81	167,967	16.3	81.7		100	81.7
bis(2-Chloroethyl)ether	63	5.82	271,876	18.8	94.2		100	94.2
2-Chlorophenol	128	5.93	255,656	17.9	89.5		100	89.5
1,3-Dichlorobenzene	146	6.08	252,022	16.1	80.4		100	80.4
1,4-Dichlorobenzene (CCC)	146	6.14	255,692	16.1	80.6		100	80.6
Benzyl alcohol	108	6.22	171,561	19.6	98.1		100	98.1
1,2-Dichlorobenzene	146	6.31	250,307	17.2	86.1		100	86.1
2-Methylphenol	107	6.30	221,638	18.9	94.4		100	94.4
bis(2-Chloroisopropyl) ether	45	6.34	564,247	19.1	95.4		100	95.4
3/4-Methylphenol	107	6.45	290,865	20.1	100		100	100.3
N-Nitroso-di-n-propylamine (SPCC)	70	6.48	239,470	20.1	101		100	100.7
o-Toluidine	106	6.55	429,677	18.1	90.4		100	90.4
Hexachloroethane	117	6.69	95,936	15.3	76.6		100	76.6
Nitrobenzene	77	6.72	326,309	19.0	94.9		100	94.9
Isophorone	82	6.98	582,643	20.3	102		100	101.7
2,4-Dimethylphenol	107	7.08	270,770	19.8	99.1		100	99.1
2-Nitrophenol (CCC)	139	7.11	133,787	18.4	91.8		100	91.8
Benzoic acid	105	NA	0	11.6	57.8	ND	200	0.0
bis(2-Chloroethoxy)methane	93	7.20	342,043	19.6	98.1		100	98.1
2,4-Dichlorophenol (CCC)	162	7.40	196,481	19.5	97.7		100	97.7
a,a-Dimethylphenethylamine	58	NA	0	1.00	5.00	ND	100	0.0
1,2,4-Trichlorobenzene	180	7.54	220,662	17.3	86.5		100	86.5
Naphthalene	128	7.66	805,426	19.4	96.8		100	96.8
4-Chloroaniline	65	7.69	100,844	16.9	84.6		100	84.6
Hexachlorobutadiene (CCC)	225	7.81	107,703	16.0	80.1		100	80.1
Quinoline	129	8.14	433,631	17.6	87.9		100	87.9
1,4-Phenylenediamine	108	NA	0	1.00	5.00	ND	100	0.0
4-Chloro-3 methylphenol (CCC)	107	8.36	194,821	18.2	90.8		100	90.8
2-Methylnaphthalene	142	8.69	472,172	18.9	94.4		100	94.4
1-Methylnaphthalene	142	8.87	472,198	19.8	99.0		100	99.0
Hexachlorocyclopentadiene (SPCC)	237	8.96	69,923	14.9	74.5		100	74.5
2,4,6-Trichlorophenol (CCC)	196	9.15	119,149	18.1	90.6		100	90.6
2,4,5-Trichlorophenol	196	9.21	119,004	17.4	87.0		100	87.0
Biphenyl	154	9.4696	564,062	19.6	98.1		100	98.1
2-Chloronaphthalene	162	9.53	442,637	19.9	99.5		100	99.5
2-Nitroaniline	65	9.68	155,567	19.1	95.3		100	95.3
1,4-Dinitrobenzene	168	9.90	68,959	19.3	96.7		100	96.7
Dimethylphthalate	163	9.97	497,291	20.5	102		100	102.4
1,3-Dinitrobenzene	168	10.0	86,932	20.3	101		100	101.3
2,6-Dinitrotoluene	165	10.1	118,384	20.2	101		100	100.8

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 LCS-1**
Data File: W1102019.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	Tag Value (ug)	% Rec
1,2-Dinitrobenzene	168	10.2	58,162	20.4	102		100	102.2
Acenaphthylene	152	10.3	674,681	19.1	95.7		100	95.7
3-Nitroaniline	138	10.4	111,334	18.9	94.7		100	94.7
Acenaphthene (CCC)	154	10.6	399,544	18.6	93.1		100	93.1
2,4-Dinitrophenol (SPCC)	184	10.6	16,694	6.34	31.7	J	100	31.7
4-Nitrophenol (SPCC)	139	10.7	60,624	14.0	69.9		100	69.9
2,4-Dinitrotoluene	165	10.9	149,967	20.6	103		100	103.2
Dibenzofuran	168	10.9	580,592	19.6	98.2		100	98.2
2,3,5,6-Tetrachlorophenol	232	11.1	96,754	20.4	102		100	102.1
2,3,4,6-Tetrachlorophenol	232	11.1	99,302	18.2	90.9		100	90.9
Diethylphthalate	149	11.3	516,674	21.4	107		100	107.2
4-Chlorophenyl-phenylether	204	11.6	216,879	19.7	98.5		100	98.5
Fluorene	166	11.6	481,713	19.9	99.4		100	99.4
4-Nitroaniline	138	11.6	98,684	18.1	90.6		100	90.6
4,6-Dinitro2-methylphenol	198	11.7	53,421	13.8	68.8		100	68.8
N-Nitrosodiphenylamine (CCC)	169	11.8	435,152	21.0	105		100	104.8
Azobenzene	77	11.9	604,351	20.1	101		100	100.7
4-Bromophenyl-phenylether	248	12.5	121,198	18.8	93.8		100	93.8
Hexachlorobenzene	284	12.7	127,258	19.2	95.8		100	95.8
Pentachlorophenol (CCC)	266	13.1	54,593	14.1	70.3		100	70.3
Phenanthrene	178	13.5	699,791	19.9	99.4		100	99.4
Anthracene	178	13.6	693,561	19.8	98.8		100	98.8
Carbazole	167	13.9	599,032	19.6	97.9		100	97.9
Di-n-butylphthalate	149	14.6	878,302	20.8	104		100	103.8
Fluoranthene (CCC)	202	15.9	726,268	20.2	101		100	101.0
Benzidine	184	NA	0	22.8	114	ND	100	0.0
Pyrene	202	16.4	732,993	19.6	98.1		100	98.1
4-Dimethylaminoazobenzene	120	17.0	214,216	19.8	99.1		100	99.1
Butylbenzylphthalate	149	17.7	346,268	21.1	106		100	105.7
3,3-Dimethylbenzidine	212	NA	0	10.8	53.9	ND	100	0.0
bis(2-Ethylhexyl)adipate	129	17.8	322,381	22.4	112		100	112.1
3,3-Dimethoxybenzidine	244	18.7	9,051	1.10	5.52	J	100	0.0
bis(2-Ethylhexyl)phthalate	149	18.8	469,344	21.7	108		100	108.3
3,3'-Dichlorobenzidine	252	18.8	151,183	14.8	73.8		100	73.8
Benzo(a)anthracene	228	18.8	589,902	20.1	101		100	100.6
Chrysene	228	18.9	554,659	19.8	98.9		100	98.9
Di-n-octylphthalate (CCC)	149	20.1	661,061	20.1	101		100	100.6
7,12-Dimethylbenz(a)anthracene	256	20.9	188,643	16.6	83.1		100	83.1
Benzo(b)fluoranthene	252	20.9	468,688	19.5	97.4		100	97.4
Benzo(k)fluoranthene	252	21.0	421,258	18.5	92.7		100	92.7
Benzo(e)pyrene	252	21.4	366,895	18.6	92.9		100	92.9
Benzo(a)pyrene (CCC)	252	21.5	386,984	19.2	96.2		100	96.2

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 LCS-1**
Data File: W1102019.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	Tag Value (ug)	% Rec
Perylene	252	21.7	388,647	18.9	94.3		100	94.3
3-Methylcholanthrene	268	22.1	182,931	17.3	86.4		100	86.4
Indeno(1,2,3-cd)pyrene	276	23.8	306,093	18.1	90.5		100	90.5
Dibenz(a,h)anthracene	278	23.8	253,552	17.8	88.9		100	88.9
Benzo(g,h,i)perylene	276	24.4	256,776	19.6	97.8		100	97.8
Dibenzo(a,e)pyrene	302	29.0	97,030	15.1	75.6		100	75.6

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	449,656	40.0	N/A		
Naphthalene-d8 (I)	136	7.63	1,664,149	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	877,177	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	1,469,403	40.0	N/A		
Chrysene-d12 (I)	240	18.9	1,190,902	40.0	N/A		
Perylene-d12 (I)	264	21.6	819,914	40.0	N/A		
2-Fluorophenol (surr)	112	5.03	458,049	33.1	82.8	200	PASS
Phenol-d5 (surr)	99	5.71	588,083	32.6	81.4	200	PASS
Nitrobenzene-d5 (surr)	82	6.70	338,298	18.5	92.6	100	PASS
2-Fluorobiphenyl (surr)	172	9.29	539,567	21.0	105	100	PASS
2,4,6-Tribromophenol (surr)	330	12.1	101,033	37.6	94.0	200	PASS
Terphenyl-d14 (surr)	244	16.7	467,408	20.5	102	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	409,866	449,656	Pass
Naphthalene-d8 (I)	7.64	7.63	1,483,698	1,664,149	Pass
Acenaphthene-d10 (I)	10.55	10.55	727,745	877,177	Pass
Phenanthrene-d10 (I)	13.45	13.45	1,167,067	1,469,403	Pass
Chrysene-d12 (I)	18.87	18.86	1,040,272	1,190,902	Pass
Perylene-d12 (I)	21.61	21.61	820,599	819,914	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 LCS-2**
Data File: W1102020.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	Tag Value (ug)	% Rec
N-Nitrosodimethylamine	74	4.07	153,364	14.8	74.2		100	74.2
Pyridine	79	NA	0	10.5	52.6	ND	100	0.0
Phenol (CCC)	94	5.72	259,816	14.7	73.5		100	73.5
Aniline	66	5.81	113,048	11.5	57.7		100	57.7
bis(2-Chloroethyl)ether	63	5.82	217,977	15.8	79.2		100	79.2
2-Chlorophenol	128	5.93	206,877	15.2	76.0		100	76.0
1,3-Dichlorobenzene	146	6.08	206,536	13.8	69.1		100	69.1
1,4-Dichlorobenzene (CCC)	146	6.15	213,951	14.2	70.8		100	70.8
Benzyl alcohol	108	6.22	130,540	15.7	78.3		100	78.3
1,2-Dichlorobenzene	146	6.31	203,080	14.7	73.3		100	73.3
2-Methylphenol	107	6.29	172,415	15.4	77.1		100	77.1
bis(2-Chloroisopropyl) ether	45	6.34	468,045	16.6	83.0		100	83.0
3/4-Methylphenol	107	6.45	218,648	15.8	79.1		100	79.1
N-Nitroso-di-n-propylamine (SPCC)	70	6.48	178,953	15.8	79.0		100	79.0
o-Toluidine	106	6.55	324,490	14.3	71.6		100	71.6
Hexachloroethane	117	6.69	78,547	13.2	65.8		100	65.8
Nitrobenzene	77	6.72	249,234	15.2	76.0		100	76.0
Isophorone	82	6.98	423,408	16.0	79.8		100	79.8
2,4-Dimethylphenol	107	7.08	204,387	16.2	80.8		100	80.8
2-Nitrophenol (CCC)	139	7.11	95,547	14.2	70.8		100	70.8
Benzoic acid	105	NA	0	11.6	57.8	ND	200	0.0
bis(2-Chloroethoxy)methane	93	7.20	253,598	15.7	78.5		100	78.5
2,4-Dichlorophenol (CCC)	162	7.40	142,855	15.3	76.7		100	76.7
a,a-Dimethylphenethylamine	58	NA	0	1.00	5.00	ND	100	0.0
1,2,4-Trichlorobenzene	180	7.54	169,305	14.3	71.6		100	71.6
Naphthalene	128	7.67	616,822	16.0	80.1		100	80.1
4-Chloroaniline	65	7.69	72,268	13.1	65.4		100	65.4
Hexachlorobutadiene (CCC)	225	7.82	80,959	13.0	65.0		100	65.0
Quinoline	129	8.14	291,696	12.8	63.9		100	63.9
1,4-Phenylenediamine	108	NA	0	1.00	5.00	ND	100	0.0
4-Chloro-3 methylphenol (CCC)	107	8.36	143,636	14.5	72.3		100	72.3
2-Methylnaphthalene	142	8.70	336,970	14.5	72.7		100	72.7
1-Methylnaphthalene	142	8.87	343,938	15.6	77.8		100	77.8
Hexachlorocyclopentadiene (SPCC)	237	8.96	56,086	12.9	64.5		100	64.5
2,4,6-Trichlorophenol (CCC)	196	9.15	83,379	14.6	73.1		100	73.1
2,4,5-Trichlorophenol	196	9.21	76,659	12.9	64.5		100	64.5
Biphenyl	154	9.4697	432,751	17.3	86.7		100	86.7
2-Chloronaphthalene	162	9.53	316,279	16.4	81.9		100	81.9
2-Nitroaniline	65	9.68	99,454	14.0	70.2		100	70.2
1,4-Dinitrobenzene	168	9.90	40,499	13.1	65.5		100	65.5
Dimethylphthalate	163	9.98	318,191	15.1	75.5		100	75.5
1,3-Dinitrobenzene	168	10.0	52,127	14.0	69.9		100	69.9
2,6-Dinitrotoluene	165	10.1	76,081	14.9	74.6		100	74.6

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 LCS-2**

Data File: W1102020.D

Tank/Misc ID: 0711-51/79

DF: 1.00

Aliquot Factor: 1.00

Extraction Vol (mL): 5.00

ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	Tag Value (ug)	% Rec
1,2-Dinitrobenzene	168	10.2	35,048	14.2	70.9		100	70.9
Acenaphthylene	152	10.3	471,690	15.4	77.1		100	77.1
3-Nitroaniline	138	10.4	66,095	13.0	64.8		100	64.8
Acenaphthene (CCC)	154	10.6	282,854	15.2	75.9		100	75.9
2,4-Dinitrophenol (SPCC)	184	NA	0	5.05	25.3	ND	100	0.0
4-Nitrophenol (SPCC)	139	10.7	36,615	9.72	48.6		100	48.6
2,4-Dinitrotoluene	165	10.9	91,836	14.6	72.8		100	72.8
Dibenzofuran	168	10.9	393,048	15.3	76.6		100	76.6
2,3,5,6-Tetrachlorophenol	232	11.1	55,720	13.5	67.7		100	67.7
2,3,4,6-Tetrachlorophenol	232	11.2	59,018	12.4	62.2		100	62.2
Diethylphthalate	149	11.3	329,403	15.7	78.7		100	78.7
4-Chlorophenyl-phenylether	204	11.6	136,963	14.3	71.7		100	71.7
Fluorene	166	11.6	308,995	14.7	73.4		100	73.4
4-Nitroaniline	138	11.6	57,570	12.2	60.9		100	60.9
4,6-Dinitro2-methylphenol	198	11.7	28,478	8.45	42.3	J	100	42.3
N-Nitrosodiphenylamine (CCC)	169	11.8	266,647	14.8	74.0		100	74.0
Azobenzene	77	11.9	392,706	15.1	75.4		100	75.4
4-Bromophenyl-phenylether	248	12.5	75,988	15.3	76.6		100	76.6
Hexachlorobenzene	284	12.7	77,179	15.1	75.7		100	75.7
Pentachlorophenol (CCC)	266	13.1	31,133	10.4	52.2		100	52.2
Phenanthrene	178	13.5	445,556	16.5	82.4		100	82.4
Anthracene	178	13.6	437,643	16.2	81.2		100	81.2
Carbazole	167	13.9	396,448	16.9	84.4		100	84.4
Di-n-butylphthalate	149	14.6	563,446	17.3	86.7		100	86.7
Fluoranthene (CCC)	202	15.9	488,416	17.7	88.4		100	88.4
Benzidine	184	NA	0	22.8	114	ND	100	0.0
Pyrene	202	16.4	496,641	17.3	86.6		100	86.6
4-Dimethylaminoazobenzene	120	17.0	161,372	16.5	82.3		100	82.3
Butylbenzylphthalate	149	17.7	251,733	16.9	84.7		100	84.7
3,3-Dimethylbenzidine	212	NA	0	10.8	53.9	ND	100	0.0
bis(2-Ethylhexyl)adipate	129	17.8	222,097	17.0	85.1		100	85.1
3,3-Dimethoxybenzidine	244	NA	0	1.00	5.00	ND	100	0.0
bis(2-Ethylhexyl)phthalate	149	18.8	350,289	17.8	89.1		100	89.1
3,3'-Dichlorobenzidine	252	18.8	115,475	12.4	62.2		100	62.2
Benzo(a)anthracene	228	18.8	461,535	17.4	86.8		100	86.8
Chrysene	228	18.9	433,783	17.1	85.3		100	85.3
Di-n-octylphthalate (CCC)	149	20.1	513,670	17.2	86.2		100	86.2
7,12-Dimethylbenz(a)anthracene	256	20.9	175,345	14.6	73.2		100	73.2
Benzo(b)fluoranthene	252	20.9	410,416	16.1	80.7		100	80.7
Benzo(k)fluoranthene	252	21.0	388,466	16.2	80.9		100	80.9
Benzo(e)pyrene	252	21.4	360,433	17.3	86.4		100	86.4
Benzo(a)pyrene (CCC)	252	21.5	359,989	16.9	84.7		100	84.7

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/7/2011

Sample ID: **0711-51/79 LCS-2**
Data File: W1102020.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ug/mL)	Catch Weight (ug)	Flags	Tag Value (ug)	% Rec
Perylene	252	21.7	385,278	17.7	88.4		100	88.4
3-Methylcholanthrene	268	22.1	191,576	17.1	85.6		100	85.6
Indeno(1,2,3-cd)pyrene	276	23.8	338,323	18.9	94.7		100	94.7
Dibenz(a,h)anthracene	278	23.8	271,393	18.0	90.0		100	90.0
Benzo(g,h,i)perylene	276	24.4	278,304	20.1	100		100	100.4
Dibenzo(a,e)pyrene	302	29.0	117,984	17.4	87.0		100	87.0

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.13	428,642	40.0	N/A		
Naphthalene-d8 (I)	136	7.64	1,541,460	40.0	N/A		
Acenaphthene-d10 (I)	164	10.5	761,425	40.0	N/A		
Phenanthrene-d10 (I)	188	13.4	1,128,256	40.0	N/A		
Chrysene-d12 (I)	240	18.9	1,080,050	40.0	N/A		
Perylene-d12 (I)	264	21.6	866,170	40.0	N/A		
2-Fluorophenol (surr)	112	5.03	396,118	30.0	75.1	200	PASS
Phenol-d5 (surr)	99	5.71	491,857	28.6	71.4	200	PASS
Nitrobenzene-d5 (surr)	82	6.70	252,624	14.5	72.6	100	PASS
2-Fluorobiphenyl (surr)	172	9.29	389,465	17.4	87.2	100	PASS
2,4,6-Tribromophenol (surr)	330	12.0	62,550	30.3	75.8	200	PASS
Terphenyl-d14 (surr)	244	16.7	326,075	18.6	93.1	100	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.13	6.13	409,866	428,642	Pass
Naphthalene-d8 (I)	7.64	7.64	1,483,698	1,541,460	Pass
Acenaphthene-d10 (I)	10.55	10.54	727,745	761,425	Pass
Phenanthrene-d10 (I)	13.45	13.45	1,167,067	1,128,256	Pass
Chrysene-d12 (I)	18.87	18.86	1,040,272	1,080,050	Pass
Perylene-d12 (I)	21.61	21.61	820,599	866,170	Pass

Results (SIM)

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **R1**
Data File: W1101913.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	7.55	22,828	359	3,593	
2-Methylnaphthalene	142	8.58	800	20.8	208	
1-Methylnaphthalene	142	NA	0	10.0	100	ND
Acenaphthylene	152	NA	0	10.0	100	ND
Acenaphthene (CCC)	154	NA	0	10.0	100	ND
Fluorene	166	NA	0	10.0	100	ND
Phenanthrene	178	13.3	1,199	16.4	164	
Anthracene	178	NA	0	10.0	100	ND
Fluoranthene (CCC)	202	15.8	1,210	22.1	221	
Pyrene	202	16.2	2,564	44.6	446	
Benzo(a)anthracene	228	NA	0	10.0	100	ND
Chrysene	228	NA	0	10.0	100	ND
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	200	ND
Benzo(b)fluoranthene	252	NA	0	10.0	100	ND
Benzo(k)fluoranthene	252	NA	0	10.0	100	ND
Benzo(e)pyrene	252	NA	0	10.0	100	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	100	ND
Perylene	252	NA	0	10.0	100	ND
3-Methylcholanthrene	268	NA	0	50.0	500	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	100	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	100	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	100	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	500	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	11,337	400	N/A		
Naphthalene-d8 (I)	136	7.53	25,633	400	N/A		
Acenaphthene-d10 (I)	164	10.4	17,512	400	N/A		
Phenanthrene-d10 (I)	188	13.3	26,869	400	N/A		
Chrysene-d12 (I)	240	18.7	18,436	400	N/A		
Perylene-d12 (I)	264	21.4	12,164	400	N/A		
Fluorene-d10 (surr)	176	11.4	7,084	172	86.1	2000	PASS
Pyrene-d10 (surr)	212	16.2	9,489	194	96.9	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	12,447	11,337	Pass
Naphthalene-d8 (I)	7.52	7.53	36,025	25,633	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,858	17,512	Pass
Phenanthrene-d10 (I)	13.29	13.29	22,806	26,869	Pass
Chrysene-d12 (I)	18.68	18.68	10,428	18,436	Pass
Perylene-d12 (I)	21.40	21.40	4,554	12,164	Fail

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **R1 (Conf)**
Data File: W1101957.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 3

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	7.54	19,482	344	3,444	
2-Methylnaphthalene	142	8.57	828	24.2	242	
1-Methylnaphthalene	142	NA	0	10.0	100	ND
Acenaphthylene	152	NA	0	10.0	100	ND
Acenaphthene (CCC)	154	NA	0	10.0	100	ND
Fluorene	166	NA	0	10.0	100	ND
Phenanthrene	178	13.3	1,084	14.8	148	
Anthracene	178	NA	0	10.0	100	ND
Fluoranthene (CCC)	202	15.7	1,281	23.4	234	
Pyrene	202	16.2	2,689	46.7	467	
Benzo(a)anthracene	228	NA	0	10.0	100	ND
Chrysene	228	NA	0	10.0	100	ND
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	200	ND
Benzo(b)fluoranthene	252	NA	0	10.0	100	ND
Benzo(k)fluoranthene	252	NA	0	10.0	100	ND
Benzo(e)pyrene	252	NA	0	10.0	100	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	100	ND
Perylene	252	NA	0	10.0	100	ND
3-Methylcholanthrene	268	NA	0	50.0	500	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	100	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	100	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	100	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	500	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.02	11,331	400	N/A		
Naphthalene-d8 (I)	136	7.51	22,817	400	N/A		
Acenaphthene-d10 (I)	164	10.4	18,022	400	N/A		
Phenanthrene-d10 (I)	188	13.3	26,924	400	N/A		
Chrysene-d12 (I)	240	18.7	21,685	400	N/A		
Perylene-d12 (I)	264	21.4	12,956	400	N/A		
Fluorene-d10 (surr)	176	11.4	6,842	162	80.8	2000	PASS
Pyrene-d10 (surr)	212	16.2	9,755	199	99.5	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.02	6.02	12,697	11,331	Pass
Naphthalene-d8 (I)	7.51	7.51	37,495	22,817	Pass
Acenaphthene-d10 (I)	10.39	10.40	17,214	18,022	Pass
Phenanthrene-d10 (I)	13.28	13.28	22,206	26,924	Pass
Chrysene-d12 (I)	18.66	18.66	10,387	21,685	Fail
Perylene-d12 (I)	21.37	21.37	6,108	12,956	Fail

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **R2**
Data File: W1101914.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	7.56	47,452	521	5,213	
2-Methylnaphthalene	142	8.59	40,089	727	7,273	
1-Methylnaphthalene	142	8.75	51,359	955	9,546	
Acenaphthylene	152	10.1	1,592	26.5	265	
Acenaphthene (CCC)	154	10.5	1,175	27.5	275	
Fluorene	166	11.5	11,758	262	2,623	
Phenanthrene	178	13.3	6,710	79.0	790	
Anthracene	178	13.4	1,117	16.7	167	
Fluoranthene (CCC)	202	15.7	2,948	46.3	463	
Pyrene	202	16.2	15,373	229	2,294	
Benzo(a)anthracene	228	18.6	7,034	168	1,680	
Chrysene	228	18.7	7,339	101	1,014	
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	200	ND
Benzo(b)fluoranthene	252	20.7	891	20.7	207	
Benzo(k)fluoranthene	252	20.8	1,250	20.3	203	
Benzo(e)pyrene	252	NA	0	10.0	100	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	100	ND
Perylene	252	NA	0	10.0	100	ND
3-Methylcholanthrene	268	NA	0	50.0	500	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	100	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	100	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	100	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	500	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	11,768	400	N/A		
Naphthalene-d8 (I)	136	7.53	36,721	400	N/A		
Acenaphthene-d10 (I)	164	10.4	16,676	400	N/A		
Phenanthrene-d10 (I)	188	13.3	31,324	400	N/A		
Chrysene-d12 (I)	240	18.7	23,636	400	N/A		
Perylene-d12 (I)	264	21.4	17,058	400	N/A		
Fluorene-d10 (surr)	176	11.4	8,530	218	109	2000	PASS
Pyrene-d10 (surr)	212	16.2	9,574	168	83.9	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	12,447	11,768	Pass
Naphthalene-d8 (I)	7.52	7.53	36,025	36,721	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,858	16,676	Pass
Phenanthrene-d10 (I)	13.29	13.29	22,806	31,324	Pass
Chrysene-d12 (I)	18.68	18.68	10,428	23,636	Fail
Perylene-d12 (I)	21.40	21.40	4,554	17,058	Fail

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **R2 (conf)**
Data File: W1101926.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	7.56	38,814	429	4,292	
2-Methylnaphthalene	142	8.58	37,570	686	6,860	
1-Methylnaphthalene	142	8.75	47,903	896	8,962	
Acenaphthylene	152	10.1	1,407	25.4	254	
Acenaphthene (CCC)	154	NA	0	10.0	100	ND
Fluorene	166	11.5	12,561	304	3,042	
Phenanthrene	178	13.3	5,857	77.7	777	
Anthracene	178	13.4	933	15.8	158	
Fluoranthene (CCC)	202	15.7	2,111	37.4	374	
Pyrene	202	16.2	13,859	233	2,330	
Benzo(a)anthracene	228	18.6	6,522	177	1,771	
Chrysene	228	18.7	6,548	103	1,028	
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	200	ND
Benzo(b)fluoranthene	252	20.7	767	20.9	209	
Benzo(k)fluoranthene	252	20.8	904	17.2	172	
Benzo(e)pyrene	252	NA	0	10.0	100	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	100	ND
Perylene	252	NA	0	10.0	100	ND
3-Methylcholanthrene	268	NA	0	50.0	500	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	100	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	100	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	100	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	500	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	11,030	400	N/A		
Naphthalene-d8 (I)	136	7.53	36,483	400	N/A		
Acenaphthene-d10 (I)	164	10.4	15,360	400	N/A		
Phenanthrene-d10 (I)	188	13.3	27,793	400	N/A		
Chrysene-d12 (I)	240	18.7	20,796	400	N/A		
Perylene-d12 (I)	264	21.4	14,524	400	N/A		
Fluorene-d10 (surr)	176	11.4	6,324	175	87.6	2000	PASS
Pyrene-d10 (surr)	212	16.2	8,013	158	79.1	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	11,620	11,030	Pass
Naphthalene-d8 (I)	7.52	7.53	35,923	36,483	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,412	15,360	Pass
Phenanthrene-d10 (I)	13.29	13.29	23,200	27,793	Pass
Chrysene-d12 (I)	18.68	18.68	12,831	20,796	Pass
Perylene-d12 (I)	21.40	21.40	6,147	14,524	Fail

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **R3**
Data File: W1101921.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	7.56	64,723	833	8,331	
2-Methylnaphthalene	142	8.58	91,444	1,944	19,438	
1-Methylnaphthalene	142	8.75	104,689	2,280	22,800	
Acenaphthylene	152	10.1	2,189	36.0	360	
Acenaphthene (CCC)	154	NA	0	10.0	100	ND
Fluorene	166	NA	0	10.0	100	ND
Phenanthrene	178	13.3	15,816	191	1,909	
Anthracene	178	13.4	50,743	780	7,795	
Fluoranthene (CCC)	202	15.7	9,345	150	1,505	
Pyrene	202	16.2	37,554	575	5,746	
Benzo(a)anthracene	228	18.7	4,784	118	1,184	
Chrysene	228	18.7	15,597	223	2,233	
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	200	ND
Benzo(b)fluoranthene	252	NA	0	10.0	100	ND
Benzo(k)fluoranthene	252	20.8	2,199	40.2	402	
Benzo(e)pyrene	252	21.2	892	17.7	177	
Benzo(a)pyrene (CCC)	252	21.3	1,599	34.7	347	
Perylene	252	21.5	1,284	23.1	231	
3-Methylcholanthrene	268	NA	0	50.0	500	ND
Indeno(1,2,3-cd)pyrene	276	23.5	572	19.0	190	
Dibenz(a,h)anthracene	278	NA	0	10.0	100	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	100	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	500	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	10,138	400	N/A		
Naphthalene-d8 (I)	136	7.53	31,339	400	N/A		
Acenaphthene-d10 (I)	164	10.4	16,866	400	N/A		
Phenanthrene-d10 (I)	188	13.3	30,543	400	N/A		
Chrysene-d12 (I)	240	18.7	22,811	400	N/A		
Perylene-d12 (I)	264	21.4	15,163	400	N/A		
Fluorene-d10 (surr)	176	11.4	5,908	149	74.5	2000	PASS
Pyrene-d10 (surr)	212	16.2	9,081	163	81.6	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	11,620	10,138	Pass
Naphthalene-d8 (I)	7.52	7.53	35,923	31,339	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,412	16,866	Pass
Phenanthrene-d10 (I)	13.29	13.29	23,200	30,543	Pass
Chrysene-d12 (I)	18.68	18.69	12,831	22,811	Pass
Perylene-d12 (I)	21.40	21.40	6,147	15,163	Fail

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **R3 LD**
Data File: W1101922.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 10.0
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags	% Diff
Naphthalene	128	7.56	64,491	810	8,098		2.8
2-Methylnaphthalene	142	8.58	93,903	1,947	19,472		0.2
1-Methylnaphthalene	142	8.75	108,770	2,311	23,109		1.4
Acenaphthylene	152	10.1	2,151	35.6	356		1.3
Acenaphthene (CCC)	154	NA	0	10.0	100	ND	0.0
Fluorene	166	NA	0	10.0	100	ND	0.0
Phenanthrene	178	13.3	16,054	187	1,868		2.1
Anthracene	178	13.4	53,443	792	7,916		1.5
Fluoranthene (CCC)	202	15.7	10,210	158	1,585		5.3
Pyrene	202	16.2	40,325	595	5,949		3.5
Benzo(a)anthracene	228	18.7	5,043	123	1,227		3.6
Chrysene	228	18.7	16,084	226	2,263		1.3
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	200	ND	0.0
Benzo(b)fluoranthene	252	NA	0	10.0	100	ND	0.0
Benzo(k)fluoranthene	252	20.8	2,282	41.2	412		2.6
Benzo(e)pyrene	252	21.2	1,031	20.2	202		14.2
Benzo(a)pyrene (CCC)	252	21.3	1,625	34.9	349		0.4
Perylene	252	21.4	1,190	21.1	211		8.4
3-Methylcholanthrene	268	NA	0	50.0	500	ND	0.0
Indeno(1,2,3-cd)pyrene	276	23.5	574	18.8	188		0.8
Dibenz(a,h)anthracene	278	NA	0	10.0	100	ND	0.0
Benzo(g,h,i)perylene	276	NA	0	10.0	100	ND	0.0
Dibenzo(a,e)pyrene	302	NA	0	50.0	500	ND	0.0

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.04	11,377	400	N/A		
Naphthalene-d8 (I)	136	7.53	32,126	400	N/A		
Acenaphthene-d10 (I)	164	10.4	16,784	400	N/A		
Phenanthrene-d10 (I)	188	13.3	31,679	400	N/A		
Chrysene-d12 (I)	240	18.7	23,215	400	N/A		
Perylene-d12 (I)	264	21.4	15,343	400	N/A		
Fluorene-d10 (surr)	176	11.4	6,157	156	78.0	2000	PASS
Pyrene-d10 (surr)	212	16.2	9,382	163	81.3	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.04	11,620	11,377	Pass
Naphthalene-d8 (I)	7.52	7.53	35,923	32,126	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,412	16,784	Pass
Phenanthrene-d10 (I)	13.29	13.29	23,200	31,679	Pass
Chrysene-d12 (I)	18.68	18.68	12,831	23,215	Pass
Perylene-d12 (I)	21.40	21.40	6,147	15,343	Fail

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **RO**
Data File: W1101903.D
Tank/Misc ID: 0711-79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	7.55	57,711	588	2,941	
2-Methylnaphthalene	142	8.58	1,438	24.2	121	
1-Methylnaphthalene	142	NA	0	10.0	50.0	ND
Acenaphthylene	152	NA	0	10.0	50.0	ND
Acenaphthene (CCC)	154	NA	0	10.0	50.0	ND
Fluorene	166	NA	0	10.0	50.0	ND
Phenanthrene	178	NA	0	10.0	50.0	ND
Anthracene	178	NA	0	10.0	50.0	ND
Fluoranthene (CCC)	202	NA	0	10.0	50.0	ND
Pyrene	202	NA	0	10.0	50.0	ND
Benzo(a)anthracene	228	NA	0	10.0	50.0	ND
Chrysene	228	NA	0	10.0	50.0	ND
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	100	ND
Benzo(b)fluoranthene	252	NA	0	10.0	50.0	ND
Benzo(k)fluoranthene	252	NA	0	10.0	50.0	ND
Benzo(e)pyrene	252	NA	0	10.0	50.0	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	50.0	ND
Perylene	252	NA	0	10.0	50.0	ND
3-Methylcholanthrene	268	NA	0	50.0	250	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	50.0	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	50.0	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	50.0	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	250	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	13,155	400	N/A		
Naphthalene-d8 (I)	136	7.52	39,580	400	N/A		
Acenaphthene-d10 (I)	164	10.4	19,153	400	N/A		
Phenanthrene-d10 (I)	188	13.3	27,287	400	N/A		
Chrysene-d12 (I)	240	18.7	16,634	400	N/A		
Perylene-d12 (I)	264	21.4	8,578	400	N/A		
Fluorene-d10 (surr)	176	11.4	15,528	345	86.2	2000	PASS
Pyrene-d10 (surr)	212	16.2	19,935	401	100	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	12,447	13,155	Pass
Naphthalene-d8 (I)	7.52	7.52	36,025	39,580	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,858	19,153	Pass
Phenanthrene-d10 (I)	13.29	13.29	22,806	27,287	Pass
Chrysene-d12 (I)	18.68	18.68	10,428	16,634	Pass
Perylene-d12 (I)	21.40	21.40	4,554	8,578	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **MB-1 GC/MS**
Data File: W1101902.D
Tank/Misc ID: 0711-51/79

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 5.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	7.55	101,782	1,000	4,998	
2-Methylnaphthalene	142	8.58	2,189	35.5	177	
1-Methylnaphthalene	142	8.75	729	12.1	60.6	
Acenaphthylene	152	NA	0	10.0	50.0	ND
Acenaphthene (CCC)	154	NA	0	10.0	50.0	ND
Fluorene	166	NA	0	10.0	50.0	ND
Phenanthrene	178	NA	0	10.0	50.0	ND
Anthracene	178	NA	0	10.0	50.0	ND
Fluoranthene (CCC)	202	NA	0	10.0	50.0	ND
Pyrene	202	NA	0	10.0	50.0	ND
Benzo(a)anthracene	228	NA	0	10.0	50.0	ND
Chrysene	228	NA	0	10.0	50.0	ND
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	100	ND
Benzo(b)fluoranthene	252	NA	0	10.0	50.0	ND
Benzo(k)fluoranthene	252	NA	0	10.0	50.0	ND
Benzo(e)pyrene	252	NA	0	10.0	50.0	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	50.0	ND
Perylene	252	NA	0	10.0	50.0	ND
3-Methylcholanthrene	268	NA	0	50.0	250	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	50.0	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	50.0	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	50.0	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	250	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	13,593	400	N/A		
Naphthalene-d8 (I)	136	7.52	41,080	400	N/A		
Acenaphthene-d10 (I)	164	10.4	19,412	400	N/A		
Phenanthrene-d10 (I)	188	13.3	27,458	400	N/A		
Chrysene-d12 (I)	240	18.7	13,503	400	N/A		
Perylene-d12 (I)	264	21.4	5,857	400	N/A		
Fluorene-d10 (surr)	176	11.4	14,711	322	80.6	2000	PASS
Pyrene-d10 (surr)	212	16.2	16,255	325	81.3	2000	PASS

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	12,447	13,593	Pass
Naphthalene-d8 (I)	7.52	7.52	36,025	41,080	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,858	19,412	Pass
Phenanthrene-d10 (I)	13.29	13.29	22,806	27,458	Pass
Chrysene-d12 (I)	18.68	18.68	10,428	13,503	Pass
Perylene-d12 (I)	21.40	21.40	4,554	5,857	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **CH2CI2 SCN BLK**
Data File: W1101896.D
Tank/Misc ID:

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 1.00
ConCal 1

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	NA	0	10.0	10.0	ND
2-Methylnaphthalene	142	NA	0	10.0	10.0	ND
1-Methylnaphthalene	142	NA	0	10.0	10.0	ND
Acenaphthylene	152	NA	0	10.0	10.0	ND
Acenaphthene (CCC)	154	NA	0	10.0	10.0	ND
Fluorene	166	NA	0	10.0	10.0	ND
Phenanthrene	178	NA	0	10.0	10.0	ND
Anthracene	178	NA	0	10.0	10.0	ND
Fluoranthene (CCC)	202	NA	0	10.0	10.0	ND
Pyrene	202	NA	0	10.0	10.0	ND
Benzo(a)anthracene	228	NA	0	10.0	10.0	ND
Chrysene	228	NA	0	10.0	10.0	ND
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	20.0	ND
Benzo(b)fluoranthene	252	NA	0	10.0	10.0	ND
Benzo(k)fluoranthene	252	NA	0	10.0	10.0	ND
Benzo(e)pyrene	252	NA	0	10.0	10.0	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	10.0	ND
Perylene	252	NA	0	10.0	10.0	ND
3-Methylcholanthrene	268	NA	0	50.0	50.0	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	10.0	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	10.0	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	10.0	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	50.0	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	12,636	400	N/A		
Naphthalene-d8 (I)	136	7.52	36,069	400	N/A		
Acenaphthene-d10 (I)	164	10.4	15,748	400	N/A		
Phenanthrene-d10 (I)	188	13.3	20,202	400	N/A		
Chrysene-d12 (I)	240	18.7	7,750	400	N/A		
Perylene-d12 (I)	264	21.4	3,304	400	N/A		

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	12,447	12,636	Pass
Naphthalene-d8 (I)	7.52	7.52	36,025	36,069	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,858	15,748	Pass
Phenanthrene-d10 (I)	13.29	13.30	22,806	20,202	Pass
Chrysene-d12 (I)	18.68	18.68	10,428	7,750	Pass
Perylene-d12 (I)	21.40	21.40	4,554	3,304	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **CH2CI2 SCN BLK**
Data File: W1101920.D
Tank/Misc ID:

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 1.00
ConCal 2

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	NA	0	10.0	10.0	ND
2-Methylnaphthalene	142	NA	0	10.0	10.0	ND
1-Methylnaphthalene	142	NA	0	10.0	10.0	ND
Acenaphthylene	152	NA	0	10.0	10.0	ND
Acenaphthene (CCC)	154	NA	0	10.0	10.0	ND
Fluorene	166	NA	0	10.0	10.0	ND
Phenanthrene	178	NA	0	10.0	10.0	ND
Anthracene	178	NA	0	10.0	10.0	ND
Fluoranthene (CCC)	202	NA	0	10.0	10.0	ND
Pyrene	202	NA	0	10.0	10.0	ND
Benzo(a)anthracene	228	NA	0	10.0	10.0	ND
Chrysene	228	NA	0	10.0	10.0	ND
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	20.0	ND
Benzo(b)fluoranthene	252	NA	0	10.0	10.0	ND
Benzo(k)fluoranthene	252	NA	0	10.0	10.0	ND
Benzo(e)pyrene	252	NA	0	10.0	10.0	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	10.0	ND
Perylene	252	NA	0	10.0	10.0	ND
3-Methylcholanthrene	268	NA	0	50.0	50.0	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	10.0	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	10.0	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	10.0	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	50.0	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.03	11,661	400	N/A		
Naphthalene-d8 (I)	136	7.52	35,411	400	N/A		
Acenaphthene-d10 (I)	164	10.4	15,499	400	N/A		
Phenanthrene-d10 (I)	188	13.3	22,260	400	N/A		
Chrysene-d12 (I)	240	18.7	10,881	400	N/A		
Perylene-d12 (I)	264	21.4	4,791	400	N/A		

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.03	6.03	11,620	11,661	Pass
Naphthalene-d8 (I)	7.52	7.52	35,923	35,411	Pass
Acenaphthene-d10 (I)	10.41	10.41	16,412	15,499	Pass
Phenanthrene-d10 (I)	13.29	13.30	23,200	22,260	Pass
Chrysene-d12 (I)	18.68	18.68	12,831	10,881	Pass
Perylene-d12 (I)	21.40	21.40	6,147	4,791	Pass

Company	Pace Analytical Services
Analyst	TDD
Parameters	EPA Method 8270C
# Samples	3 Runs & 1 Blank

Client #	1108-200
Job #	0711-79
PO #	1108-200
Report Date	9/8/2011

Sample ID: **CH2C12 SIM BLK**
Data File: W1101946.D
Tank/Misc ID:

DF: 1.00
Aliquot Factor: 1.00
Extraction Vol (mL): 1.00
ConCal 3

Compound	Quant	Ret. Time (min)	Area	Conc. (ng/mL)	Catch Weight (ng)	Flags
Naphthalene	128	NA	0	10.0	10.0	ND
2-Methylnaphthalene	142	NA	0	10.0	10.0	ND
1-Methylnaphthalene	142	NA	0	10.0	10.0	ND
Acenaphthylene	152	NA	0	10.0	10.0	ND
Acenaphthene (CCC)	154	NA	0	10.0	10.0	ND
Fluorene	166	NA	0	10.0	10.0	ND
Phenanthrene	178	NA	0	10.0	10.0	ND
Anthracene	178	NA	0	10.0	10.0	ND
Fluoranthene (CCC)	202	NA	0	10.0	10.0	ND
Pyrene	202	NA	0	10.0	10.0	ND
Benzo(a)anthracene	228	NA	0	10.0	10.0	ND
Chrysene	228	NA	0	10.0	10.0	ND
7,12-Dimethylbenz(a)anthracene	256	NA	0	20.0	20.0	ND
Benzo(b)fluoranthene	252	NA	0	10.0	10.0	ND
Benzo(k)fluoranthene	252	NA	0	10.0	10.0	ND
Benzo(e)pyrene	252	NA	0	10.0	10.0	ND
Benzo(a)pyrene (CCC)	252	NA	0	10.0	10.0	ND
Perylene	252	NA	0	10.0	10.0	ND
3-Methylcholanthrene	268	NA	0	50.0	50.0	ND
Indeno(1,2,3-cd)pyrene	276	NA	0	10.0	10.0	ND
Dibenz(a,h)anthracene	278	NA	0	10.0	10.0	ND
Benzo(g,h,i)perylene	276	NA	0	10.0	10.0	ND
Dibenzo(a,e)pyrene	302	NA	0	50.0	50.0	ND

					Rec. (%)	Spk Amt	Flags
1,4-Dichlorobenzene-d4 (I)	152	6.02	13,305	400	N/A		
Naphthalene-d8 (I)	136	7.51	38,597	400	N/A		
Acenaphthene-d10 (I)	164	10.4	17,948	400	N/A		
Phenanthrene-d10 (I)	188	13.3	23,159	400	N/A		
Chrysene-d12 (I)	240	18.7	10,394	400	N/A		
Perylene-d12 (I)	264	21.4	5,013	400	N/A		

Internal Standard Acceptance Criteria (Area -50%/+100%, RT +/- 30 sec.)

Internal Standard Name	Concal RT	Sample RT	Concal IS Area	Sample IS Area	Flag
1,4-Dichlorobenzene-d4 (I)	6.02	6.02	12,697	13,305	Pass
Naphthalene-d8 (I)	7.51	7.51	37,495	38,597	Pass
Acenaphthene-d10 (I)	10.39	10.39	17,214	17,948	Pass
Phenanthrene-d10 (I)	13.28	13.28	22,206	23,159	Pass
Chrysene-d12 (I)	18.66	18.66	10,387	10,394	Pass
Perylene-d12 (I)	21.37	21.37	6,108	5,013	Pass

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services, Inc.
Analyst	TDD
Parameters	EPA SW-846 Method 8270C (SV)

Client #	1108-200
Job #	0711-79
# Samples	3 Runs & 1 Blank

Custody

Heather Tarjeft received the samples on 7/28/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at 23.1°C and in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for Polyaromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM) and for Semi-Volatile ICR target analytes by scan using the analytical procedures in EPA SW-846 Method 8270C, *Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)*.

The Agilent Technologies Model 6890N, Gas Chromatograph ("Wiley" S/N CN10244010) was equipped with a 5973N Mass Selective Detector and a Restek Rxi-5Sil MS, 30 m x 0.25 mm x 0.5 µm (SN 1040180) capillary column for these analyses.

Each sample train consisted of five fractions: Filter, FH Rinse, XAD-2 Trap, BH Rinse, and KO Rinse. The Filter, XAD-2 Trap contents, and FH/BH rinses for each sample run were combined and soxhlet extracted. The KO Rinse was solvent and combined at KD concentration.

Prior to sample collection, the XAD-2 traps were spiked with a BN Surrogate Mix that consisted of 100 µg of nitrobenzene-d₅, 2-fluorobiphenyl, and terphenyl-d₁₄.

Each sample was spiked with 200 µg of the acid extraction surrogates (2-fluorophenol, phenol-d₅, and 2,4,6-tribromophenol) and with 2 µg of the SIM PAH extraction surrogates (fluorene-d₁₀ and pyrene-d₁₀), 50% spiked into the Filter/XAD-2 and 50% into the KO Rinse.

Each filter/XAD-2 fraction was Soxhlet extracted for 18 hours. The FH and BH rinse fractions were added to the flat bottom flask and used to extract the corresponding filter/XAD-2 fractions.

The KO Rinse was solvent and combined with the corresponding Filter/XAD-2 extract and concentrated to a 5 mL final volume, except samples **R1**, **R2**, and **R3** which were concentrated to 10 mL.



Enthalpy Analytical Narrative Summary (continued)

Analysis (continued)	<p>Laboratory method blanks and Laboratory Control Samples (LCSs) were prepared and analyzed with these samples. These laboratory QC samples were spiked as noted above.</p> <p>A 100 µL aliquot of each sample extract was spiked with SVOA internal standard spiking solution such that the final concentration of the internal standards were 40 µg/mL prior to scan analyses, and 400 ng/mL prior to SIM analysis.</p>
Calibration	<p>The analytes of interest met the 15% mean RSD initial calibration requirement. All SPCC and CCC criteria were met in the initial and continuing calibrations. All other compounds in the continuing calibration met the 50% difference in-house requirements.</p>
Chromatographic Conditions	<p>The acquisition methods M8270SCN.m, PAHSIM.m, and DFTPP-1.m are available upon request, but have not been included in this reduced format report.</p>
QC Notes	<p>All internal standard responses in the Scan analyses met QC criteria, except phenanthrene-d10 in sample R1 and 1,2-dichlorobenzene-d4, naphthalene-d8, and acenaphthene-d10 in sample R0. All internal standard responses in the SIM analyses met QC criteria, except perylene-d12 in samples R1 and R3 and chrysene-d12 and perylene-d12 in sample R2. Reanalysis of the samples confirmed failing internal standard responses.</p> <p>All surrogates met QC criteria in the SIM analyses. All surrogates met QC criteria in the Scan analyses, except nitrobenzene-d5 in sample R2, nitrobenzene-d5 and 2-fluorobiphenyl in sample R3, and 2-fluorophenol, phenol-d5, nitrobenzene-d5 and 2-fluorobiphenyl in sample R0. A second aliquot of sample R3 was analyzed as a lab duplicate and confirmed low recoveries. A confirmation analysis of a second aliquot of R0 was also analyzed and surrogate standard recover values failed in a similar manner. The method blank associated with these samples exhibited low level naphthalene contamination in the SIM analysis.</p> <p>A second aliquot of sample R3 was prepared as a lab duplicate for the scan and SIM analyses and met the QC duplicate analysis criterion of <20% difference.</p>

Enthalpy Analytical Narrative Summary (continued)

QC Notes (continued)

The LCSs were spiked with each analyte of interest and analyzed with these samples. The spiked compounds exhibited recovery values within acceptance limits, except for benzoic acid, a,a-dimethylphenethylamine, 1,4-phenylenediamine, 2,4-dinitrophenol, benzidine, 3,3-dimethylbenzidine, 3,3-dimethoxybenzidine in *LCS-1* and pyridine, benzoic acid, a,a-dimethylphenethylamine, 1,4-phenylenediamine, 2,4-dinitrophenol, benzidine, 3,3-dimethylbenzidine, 3,3-dimethoxybenzidine, 4-nitrophenol, and 4,6-dinitro-2-methylphenol in *LCS-2*.

Reporting Notes

Due to sample matrix issues observed during the SIM analysis samples ***R1***, ***R2***, and ***R3*** were analyzed at a 5-fold GC/MS analytical dilution for the scan analysis.

All final results are reported as total 'Catch weight' values. The reporting units are µg for all scan analyses and ng for all SIM analyses.

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. data reports, unless specifically noted otherwise.

- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** following a value indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).
- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two extra spikes are prepared. The extras (randomly chosen) are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection and/or sample transport.

General Reporting Notes

(continued)

- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an “M”. There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations. The peak was *not integrated* by the software “NI”, the peak was *integrated incorrectly* by the software “II” or the *wrong peak* was integrated by the software “WP”. These codes will accompany the analyst’s manual integration stamp placed next to the compound name.

Sample Custody

ALLQ020rev.3.31Mar05



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2
925967

Section A

Required Client Information:

Company: **PACE ANALYTICAL**
Address: **1700 ELM ST**
MEMPHIS, TN 38114
Email To: **JAMES.THOMPSON@PACEANAL.COM**
Phone: **612 759 7510** Fax: **612 607 6444**
Requested Due Date/TAT: **RUSH**

Section B

Required Project Information:

Report To: **JAMES THOMPSON**
Copy To: **TERRY BOWEN**
Purchase Order No.: **1108-200**
Project Name: **FHR-FUR**
Project Number: **1108-200**

Section C

Invoice Information:

Attention: **CS RICHES**
Company Name: **PACE FIELD**
Address: **1700 ELM ST**
Pace Quote Reference: _____
Pace Project Manager: _____
Pace Profile #: _____

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ Other: **USEPA**

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER: _____

Section D

Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes
MATRIX CODE
DRINKING WATER DW
WATER WT
WASTE WATER WW
PRODUCT P
SOIL/SOLID SL
OIL OL
WIPE WP
AIR AR
OTHER OT
TISSUE TS

MATRIX CODE

SAMPLE TYPE
G=GRAB C=COMP

COLLECTED

COMPOSITE START DATE TIME COMPOSITE END/GRAB DATE TIME

SAMPLE TEMP
AT COLLECTION

OF
CONTAINERS

Unpreserved W/L

Preservatives

NO PRESERVATIVES

NO PRESERVATIVES

NO PRESERVATIVES

NO PRESERVATIVES

NO PRESERVATIVES

NO PRESERVATIVES

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NO PRESERVATIVES

NO PRESERVATIVES

NO PRESERVATIVES

NO PRESERVATIVES

NO PRESERVATIVES

Filtered (Y/N)

Requested Analysis:

Pace Project Number
Lab I.D.

Additional Comments:

* RUSH

RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITION

JAMES THOMPSON 7-26-11 8:00 PM [Signature] 7-26-11 12:50 PM
MOU10 Temp = 23.1°C Analytical grade Y/N Y/N Y/N
MOU18 Temp = 9°C Analytical grade Y/N Y/N Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

TERRY BOWEN

SIGNATURE of SAMPLER:

[Signature]

DATE Signed (MM/DD/YY)

7-26-11

FHR Pine Bend
Page 8 of 42

Tested by [Signature]
Required by [Signature]
Custody Sealed Cooler
Samples Intact

Pace Analytical
FSD 1108-200

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

ALL0020rev.3,31Mar05

**This Is The Last Page
Of This Report.**

Pace Analytical Services, Inc.

1700 Elm St. Suite 200
Minneapolis, MN 55414

FHR - ICR
Project # 1108-200
PO # 1108-200

Analytical Report (0711-80)

EPA SW-846 Method 0011
Formaldehyde, Acetaldehyde, and Propionaldehyde



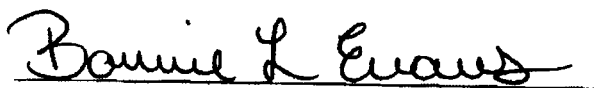
Enthalpy Analytical, Inc.

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
2202 Ellis Road Durham, NC 27703 - 5518

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 79 pages.


QA Review Performed by – Bonnie L Evans

Report Issued: 08/09/2011



Summary of Results

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

Compound	Sample ID / Catch Weight (ug)		
	M0011 T1R1	M0011 T1R2	M0011 T1R3
Formaldehyde	86.6	10.7 J	6.64 J
Acetaldehyde	1.89 ND	1.68 ND	1.28 ND
Propionaldehyde	1.87 ND	1.66 ND	1.26 ND
	M0011 T1R4 Matrix Spike	M0011 Blank	M0011 T1R0 Rec Spike
Formaldehyde	592	0.305 ND	787
Acetaldehyde	1.05 ND	0.504 ND	1.15 ND
Propionaldehyde	1.03 ND	0.497 ND	1.13 ND

Results

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

MDL 0.00271 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Formaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Vol (mL)	Aliquot Factor	Catch Weight (ug)	Qual
M0011 T1R1	022-1301.D	HPLC54PG120ICR.M	5.01	0.205	1	211	2	86.6	
M0011 T1R1	022-1401.D	HPLC54PG120ICR.M	5.01	0.205	1	211	2	86.3	
% Difference								0.3%	
LD/M0011 T1R1	023-1501.D	HPLC54PG120ICR.M	5.01	0.191	1	214	2	81.8	
% Difference								5.5%	
M0011 T1R2	024-1601.D	HPLC54PG120ICR.M	5.02	0.0284	1	188	2	10.7	J
M0011 T1R3	025-1701.D	HPLC54PG120ICR.M	5.01	0.0232	1	286	1	6.64	J
M0011 T1R4 Matrix Spike	026-1801.D	HPLC54PG120ICR.M	5.01	2.53	1	234	1	592	
M0011 Blank	027-1901.D	HPLC54PG120ICR.M	NA	0.00271	1	112	1	0.305	ND
M0011 T1R0 Rec Spike	021-1201.D	HPLC54PG120ICR.M	5.01	3.07	1	257	1	787	
Spike Amount (ug)								1,002	
Spike Recovery (%)								78.6%	
MB-2	017-0901.D	HPLC54PG120ICR.M	NA	0.00271	1	133	1	0.360	ND
MB-1	033-0601.D	HPLC54PG120ICR.M	NA	0.00271	1	133	1	0.360	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00271	1	1.00	1	0.00271	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00271	1	1.00	1	0.00271	ND
MS/M0011 T1R2	031-0401.D	HPLC54PG120ICR.M	5.00	1.71	1	128	1	218	
Spike Amount (ug)								301	
Native Amount (ug)								1.78	
Spike Recovery (%)								71.7%	
MSD/M0011 T1R2	032-0501.D	HPLC54PG120ICR.M	5.00	1.88	1	123	1	231	
Spike Amount (ug)								301	
Native Amount (ug)								1.78	
Spike Recovery (%)								76.3%	
LCS-2	018-1001.D	HPLC54PG120ICR.M	5.01	1.87	1	139	1	260	
Spike Amount (ug)								301	
Spike Recovery (%)								86.5%	
LCS-1	034-0701.D	HPLC54PG120ICR.M	5.01	1.19	1	138	1	164	
Spike Amount (ug)								301	
Spike Recovery (%)								54.6%	

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

MDL 0.00271 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Formaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Vol (mL)	Aliquot Factor	Catch Weight (ug)	Qual
RB/100% ACN	008-0901.D	HPLC54PG120.M	NA	0.00271	1	1.00	1	0.00271	ND
RB/100% ACN	008-0902.D	HPLC54PG120.M	NA	0.00271	1	1.00	1	0.00271	ND
RB/100% ACN	008-0903.D	HPLC54PG120.M	NA	0.00271	1	1.00	1	0.00271	ND
hplc54pg120 #SS	007-0801.D	HPLC54PG120.M	5.06	3.07	1	1.00	1	3.07	
Spike Conc (ug/mL)								2.90	
Spike Recovery (%)								106%	

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

MDL 0.00448 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Acetaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Vol (mL)	Aliquot Factor	Catch Weight (ug)	Qual
M0011 T1R1	022-1301.D	HPLC54PG120ICR.M	NA	0.00448	1	211	2	1.89	ND
M0011 T1R1	022-1401.D	HPLC54PG120ICR.M	NA	0.00448	1	211	2	1.89	ND
% Difference								NA	
LD/M0011 T1R1	023-1501.D	HPLC54PG120ICR.M	NA	0.00448	1	214	2	1.92	ND
% Difference								NA	
M0011 T1R2	024-1601.D	HPLC54PG120ICR.M	NA	0.00448	1	188	2	1.68	ND
M0011 T1R3	025-1701.D	HPLC54PG120ICR.M	NA	0.00448	1	286	1	1.28	ND
M0011 T1R4 Matrix Spike	026-1801.D	HPLC54PG120ICR.M	NA	0.00448	1	234	1	1.05	ND
M0011 Blank	027-1901.D	HPLC54PG120ICR.M	NA	0.00448	1	112	1	0.504	ND
M0011 T1R0 Rec Spike	021-1201.D	HPLC54PG120ICR.M	NA	0.00448	1	257	1	1.15	ND
MB-2	017-0901.D	HPLC54PG120ICR.M	NA	0.00448	1	133	1	0.595	ND
MB-1	033-0601.D	HPLC54PG120ICR.M	NA	0.00448	1	133	1	0.596	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00448	1	1.00	1	0.00448	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00448	1	1.00	1	0.00448	ND
MS/M0011 T1R2	031-0401.D	HPLC54PG120ICR.M	6.30	1.91	1	128	1	244	
Spike Amount (ug)								306	
Native Amount (ug)								0.00	
Spike Recovery (%)								79.8%	
MSD/M0011 T1R2	032-0501.D	HPLC54PG120ICR.M	6.31	2.15	1	123	1	265	
Spike Amount (ug)								306	
Native Amount (ug)								0.00	
Spike Recovery (%)								86.5%	
LCS-2	018-1001.D	HPLC54PG120ICR.M	6.30	2.91	1	139	1	404	
Spike Amount (ug)								306	
Spike Recovery (%)								132%	
LCS-1	034-0701.D	HPLC54PG120ICR.M	6.31	1.29	1	138	1	179	
Spike Amount (ug)								306	
Spike Recovery (%)								58.4%	

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

MDL 0.00448 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Acetaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Vol (mL)	Aliquot Factor	Catch Weight (ug)	Qual
RB/100% ACN	008-0901.D	HPLC54PG120.M	NA	0.00448	1	1.00	1	0.00448	ND
RB/100% ACN	008-0902.D	HPLC54PG120.M	NA	0.00448	1	1.00	1	0.00448	ND
RB/100% ACN	008-0903.D	HPLC54PG120.M	NA	0.00448	1	1.00	1	0.00448	ND
hplc54pg120 #SS	007-0801.D	HPLC54PG120.M	6.39	3.11	1	1.00	1	3.11	
Spike Conc (ug/mL)								2.90	
Spike Recovery (%)								107%	

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

MDL 0.00442 (ug/mL)
 LOQ 0.0746 (ug/mL)
 Compound Propionaldehyde

Lower Curve Limit 0.0746 (ug/mL)
 Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Vol (mL)	Aliquot Factor	Catch Weight (ug)	Qual
M0011 T1R1	022-1301.D	HPLC54PG120ICR.M	NA	0.00442	1	211	2	1.87	ND
M0011 T1R1	022-1401.D	HPLC54PG120ICR.M	NA	0.00442	1	211	2	1.87	ND
% Difference								NA	
LD/M0011 T1R1	023-1501.D	HPLC54PG120ICR.M	NA	0.00442	1	214	2	1.89	ND
% Difference								NA	
M0011 T1R2	024-1601.D	HPLC54PG120ICR.M	NA	0.00442	1	188	2	1.66	ND
M0011 T1R3	025-1701.D	HPLC54PG120ICR.M	NA	0.00442	1	286	1	1.26	ND
M0011 T1R4 Matrix Spike	026-1801.D	HPLC54PG120ICR.M	NA	0.00442	1	234	1	1.03	ND
M0011 Blank	027-1901.D	HPLC54PG120ICR.M	NA	0.00442	1	112	1	0.497	ND
M0011 T1R0 Rec Spike	021-1201.D	HPLC54PG120ICR.M	NA	0.00442	1	257	1	1.13	ND
MB-2	017-0901.D	HPLC54PG120ICR.M	NA	0.00442	1	133	1	0.587	ND
MB-1	033-0601.D	HPLC54PG120ICR.M	NA	0.00442	1	133	1	0.588	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00442	1	1.00	1	0.00442	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00442	1	1.00	1	0.00442	ND
MS/M0011 T1R2	031-0401.D	HPLC54PG120ICR.M	8.55	1.68	1	128	1	214	
Spike Amount (ug)								289	
Native Amount (ug)								0.00	
Spike Recovery (%)								74.1%	
MSD/M0011 T1R2	032-0501.D	HPLC54PG120ICR.M	8.55	1.88	1	123	1	231	
Spike Amount (ug)								289	
Native Amount (ug)								0.00	
Spike Recovery (%)								80.1%	
LCS-2	018-1001.D	HPLC54PG120ICR.M	8.56	1.82	1	139	1	253	
Spike Amount (ug)								289	
Spike Recovery (%)								87.8%	
LCS-1	034-0701.D	HPLC54PG120ICR.M	8.57	1.13	1	138	1	157	
Spike Amount (ug)								289	
Spike Recovery (%)								54.3%	

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

MDL 0.00442 (ug/mL)
 LOQ 0.0746 (ug/mL)
 Compound Propionaldehyde

Lower Curve Limit 0.0746 (ug/mL)
 Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Vol (mL)	Aliquot Factor	Catch Weight (ug)	Qual
RB/100% ACN	008-0901.D	HPLC54PG120.M	NA	0.00442	1	1.00	1	0.00442	ND
RB/100% ACN	008-0902.D	HPLC54PG120.M	NA	0.00442	1	1.00	1	0.00442	ND
RB/100% ACN	008-0903.D	HPLC54PG120.M	NA	0.00442	1	1.00	1	0.00442	ND
hplc54pg120 #SS	007-0801.D	HPLC54PG120.M	8.62	3.08	1	1.00	1	3.08	
								Spike Conc (ug/mL)	2.90
								Spike Recovery (%)	106%

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	1108-200
Job #	0711-80
# Samples	3 Runs, 1 blank, 2 spikes

Custody	Heather Tarjeft of Enthalpy Analytical, Inc. received the samples on 7/28/11 at 21.8°C after being relinquished by Pace Analytical Services, Inc. The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.
Analysis	The samples were analyzed for formaldehyde, acetaldehyde, and propionaldehyde using the analytical procedures in EPA SW-846 Method 0011, Sampling for Selected Aldehyde and Ketone Emissions from Stationary Sources. The Agilent Model 1100, High Performance Liquid Chromatograph ("Bart") was equipped with an Ultraviolet (UV) Detector operating at 360 nm and a Restek Ultra C18, 150 x 4 mm (S/N 100316P) column.
Calibration	The calibration curves are located in the Calibration Curve Chromatograms section of this report and referenced in the Analysis Method column on the Detailed Results page. For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.
Chromatographic Conditions	The acquisition method 8315ICR.M is included in the Calibration Curve Chromatograms section of this report.
QC Notes	During sample preparation, M0011 T1R1 was split in two equal halves. The first half was extracted and analyzed as M0011 T1R1 . The second half was extracted and analyzed as LD/ M0011 T1R1 . To determine the catch weights, this splitting is compensated for by use of the 'Aliquot Factor' (2) shown in the detailed results spreadsheet. The percent difference value of the formaldehyde analysis from the initial result was 5.5%; The acetaldehyde and propionaldehyde LD and initial results were below the MDL.

Enthalpy Analytical Narrative Summary (continued)

QC Notes (continued)

A replicate injection was made of the sample ***M0011 T1R1*** and the difference between the results of the replicate was 0.3%.

M0011 T1R2 was also split in half. The first half was analyzed as the sample, and has an aliquot factor of two. The remaining half was split in thirds for use as the Matrix Spike (MS), Matrix Spike Duplicate (MSD), and an archive fraction. These spikes do not have an aliquot factor, and their results are calculated on the basis of what was prepared. Therefore the native amount of the sample used in determining the spike recovery values was 1/6 the calculated final result for the sample itself. The MS and MSD exhibited recovery values of 71.7% and 76.3% for formaldehyde, 79.8% and 86.5% for acetaldehyde, and 74.1% and 80.1% for propionaldehyde.

The target analytes were not identified above the MDL in the analyses of the laboratory method blanks, laboratory acetonitrile blanks, and the client blank.

Prior to sample collection, five aqueous spikes were prepared from a spike solution; three were shipped to the client. The spikes contained 1,002 µg of formaldehyde.

The ***M0011 T1R0 Recovery Spike*** sample collected in the field using an aqueous spike described above was analyzed. The recovery value was 78.6%.

Reporting Notes

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. data reports, unless specifically noted otherwise.

- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** following a value indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).
- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two extra spikes are prepared. The extras (randomly chosen) are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection and/or sample transport.



General Reporting Notes

(continued)

- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an “M”. There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations. The peak was *not integrated* by the software “**NI**”, the peak was *integrated incorrectly* by the software “**II**” or the *wrong peak* was integrated by the software “**WP**”. These codes will accompany the analyst’s manual integration stamp placed next to the compound name.

Sample Custody

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

925966

Section A

Required Client Information:

Company: **PACE ANALYTICAL**
 Address: **1700 ELM ST**
MINNEAPOLIS, MN 55414
 Email To: **JAMES.TROWBRODGE@PACEANAL.COM**
 Phone: **612.759.7510** Fax: **612.602.6444**
 Requested Due Date/TAT: **RUSH**

Section B

Required Project Information:

Report To: **JAMES TROWBRODGE**
 Copy To: **TERRY BOWLENDEN**
 Purchase Order No.: **1108-200**
 Project Name: **FHR-ELN**
 Project Number: **1108-200**

Section C

Invoice Information:

Attention: **C S RUTLEDGE**
 Company Name: **PACE FIELD**
 Address: **1700 ELM ST**
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input checked="" type="checkbox"/> Other US EPA

SITE LOCATION	
<input type="checkbox"/> GA	<input type="checkbox"/> IL <input type="checkbox"/> IN <input type="checkbox"/> MI <input checked="" type="checkbox"/> MN <input type="checkbox"/> NC
<input type="checkbox"/> OH	<input type="checkbox"/> SC <input type="checkbox"/> WI <input type="checkbox"/> OTHER _____

ITEM #	Section D Required Client Information												MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	ANALYTICAL PARAMETERS							Pace Project Number Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE														COMPOSITE START		COMPOSITE END/GRAB				Unpreserved VCL	pH	XAD TSS	HACH CHLOROPHYLL a+b	HACH 2,4-DINITRO PHENOL	NaOH	Na ₂ S ₂ O ₃		Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Additional Comments:

* RUSH
 * Preserved MOOI Data Blank
 MOOI H₂O Blank
 MOOI Methanol Blank
 FSD 1108-200

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION		
JAMES TROWBRODGE	7-26-11	800PM	Debra Mon	7/26/11	12:15PM		Y/N	Y/N
			MOOI Temp = 21.8°C				Y/N	Y/N
			MI8 Temp = 9°C				Y/N	Y/N
							Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

TERRY BOWLENDEN

SIGNATURE of SAMPLER:

[Signature]

DATE Signed (MM/DD/YY)

7-26-11

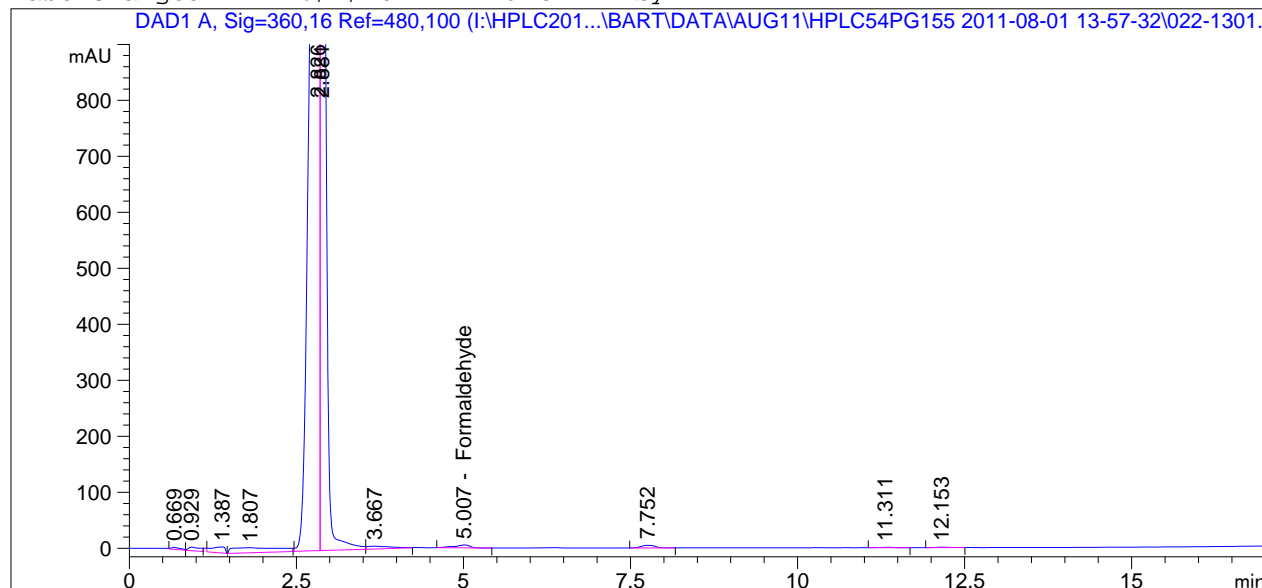
FHR Pine Bend LLC
 Page 486 of 528
 Temp °C
 Requested on 7/26/11
 Custody Sealed Cooler
 Samples Intact

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Sample Chromatograms

=====
Acq. Operator : Kristen Bounds Seq. Line : 13
Acq. Instrument : Bart Location : Vial 22
Injection Date : 8/1/2011 6:17:07 PM Inj : 1
Inj Volume : 15.0 µl
Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB
=====



=====
External Standard Report
=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.007	BB	84.61915	2.42472e-3	2.05178e-1		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 2.05178e-1

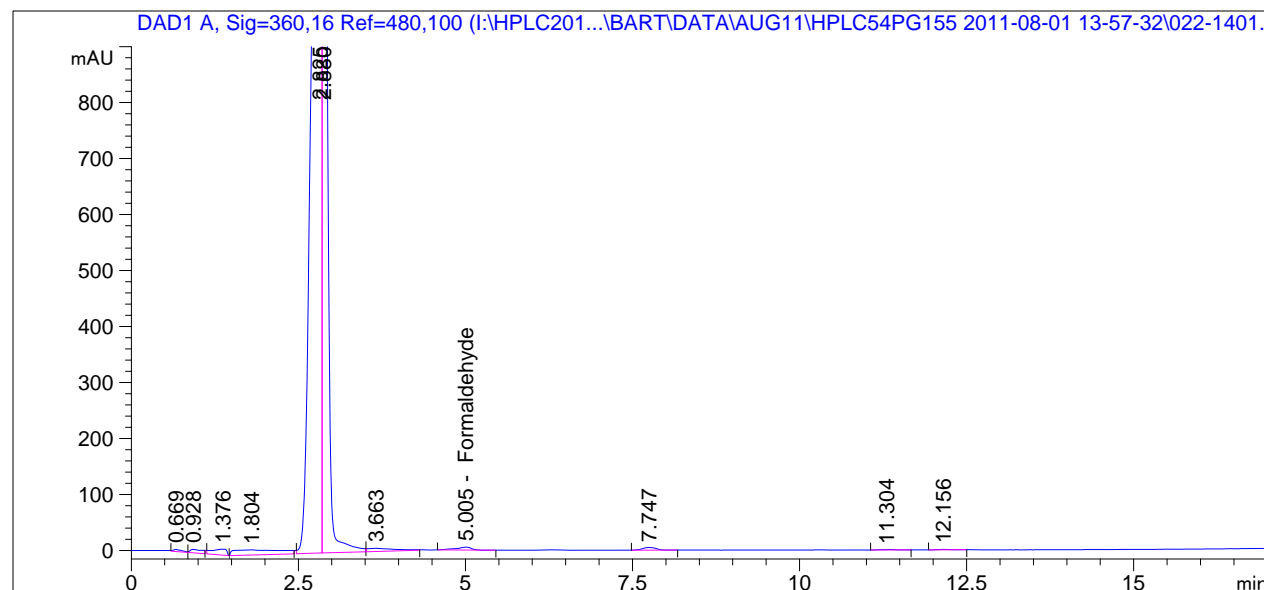
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***
=====

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 14
Acq. Instrument	: Bart	Location	: Vial 22
Injection Date	: 8/1/2011 6:38:34 PM	Inj	: 1
		Inj Volume	: 15.0 µl
Acq. Method	: C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M		
Last changed	: 6/23/2011 6:03:33 PM by System		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M		
Last changed	: 6/7/2011 11:29:37 AM by KHB		
Sample Info	: Duplicate Injection		



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.005	BB	84.34030	2.42472e-3	2.04502e-1		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 2.04502e-1

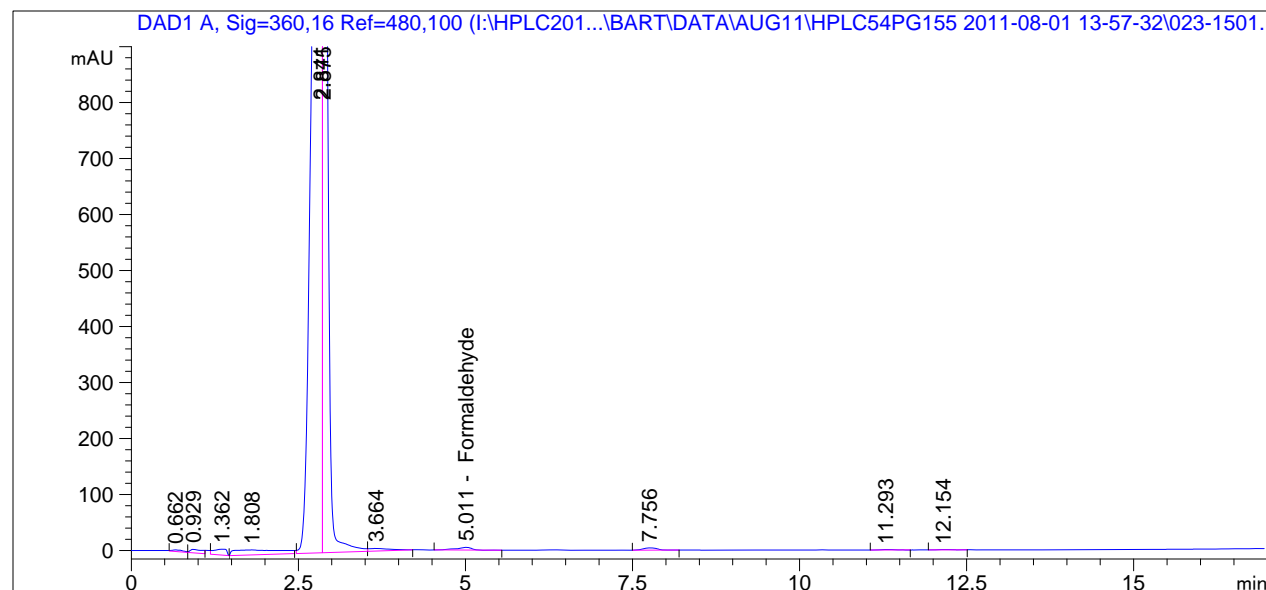
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

*** End of Report ***

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   15
Acq. Instrument : Bart                               Location  : Vial 23
Injection Date  : 8/1/2011 7:00:06 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
Sample Info     : Lab Duplicate Sample
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.011	BB	78.69384	2.42472e-3	1.90810e-1		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 1.90810e-1

2 Warnings or Errors :

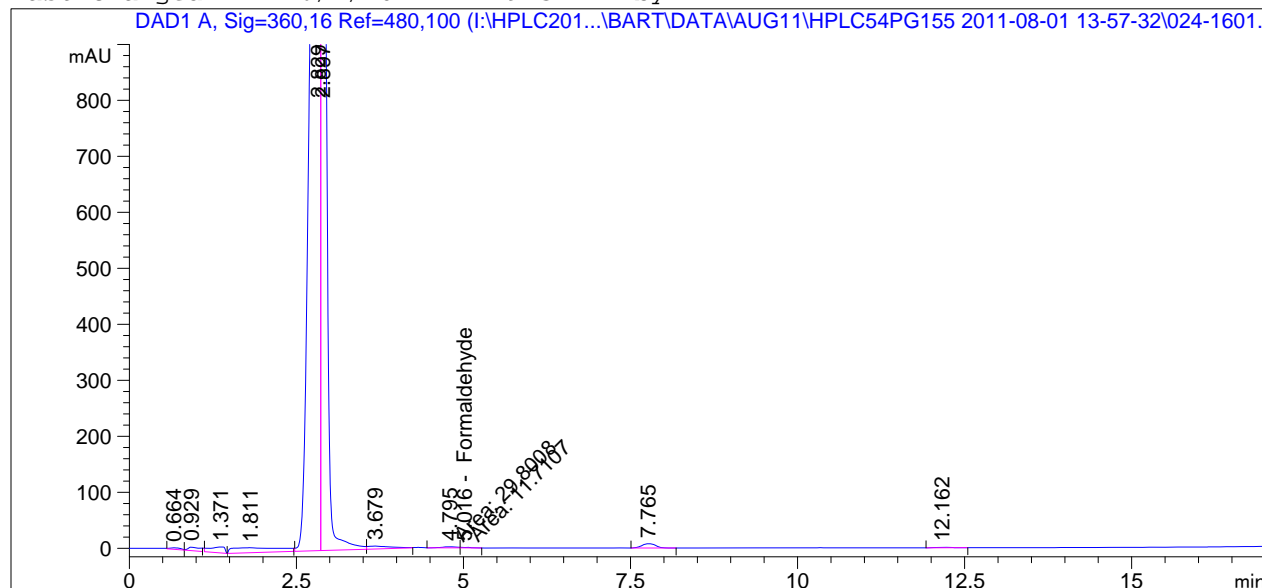
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
```

```

=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   16
Acq. Instrument : Bart                               Location  : Vial 24
Injection Date  : 8/1/2011 7:21:31 PM                 Inj       :    1
                                                    Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.016	FM	11.71074	2.42472e-3	2.83953e-2		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Manual Int. "IT" (KHB)

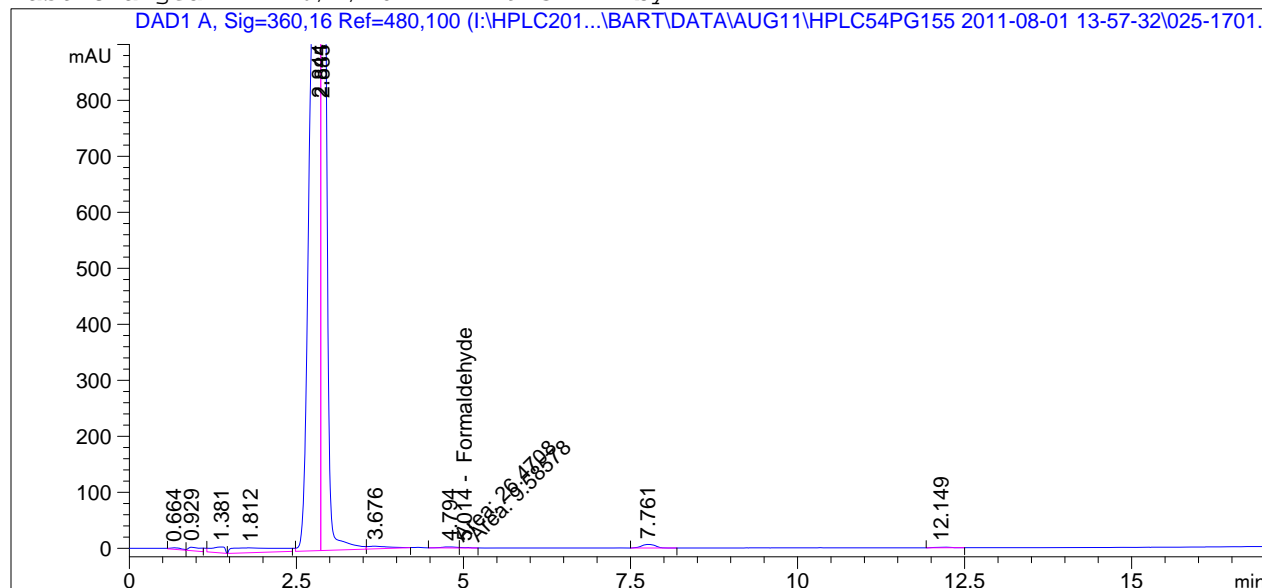
Totals : 2.83953e-2

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   17
Acq. Instrument : Bart                               Location  : Vial 25
Injection Date  : 8/1/2011 7:42:58 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier          : 1.0000
Dilution            : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.014	FM	9.58578	2.42472e-3	2.32428e-2		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Manual Int. "II" (KHB)

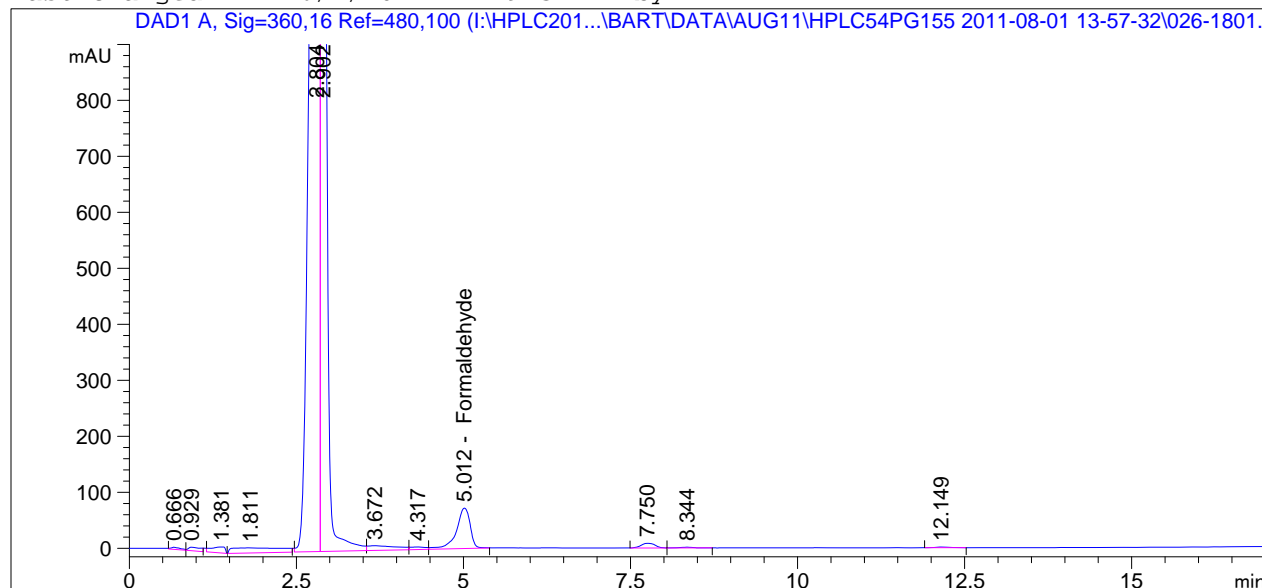
Totals : 2.32428e-2

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   18
Acq. Instrument : Bart                               Location  : Vial 26
Injection Date  : 8/1/2011 8:04:24 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.012	VB	1044.20740	2.42472e-3	2.53191		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

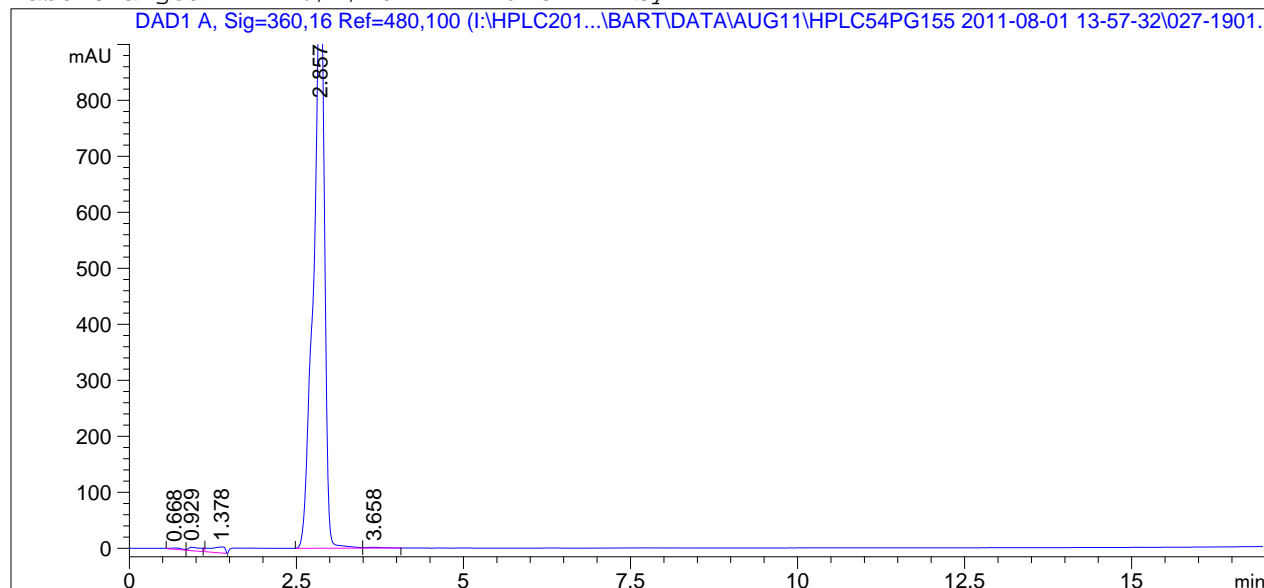
Totals : 2.53191

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   19
Acq. Instrument : Bart                               Location  : Vial 27
Injection Date  : 8/1/2011 8:25:53 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

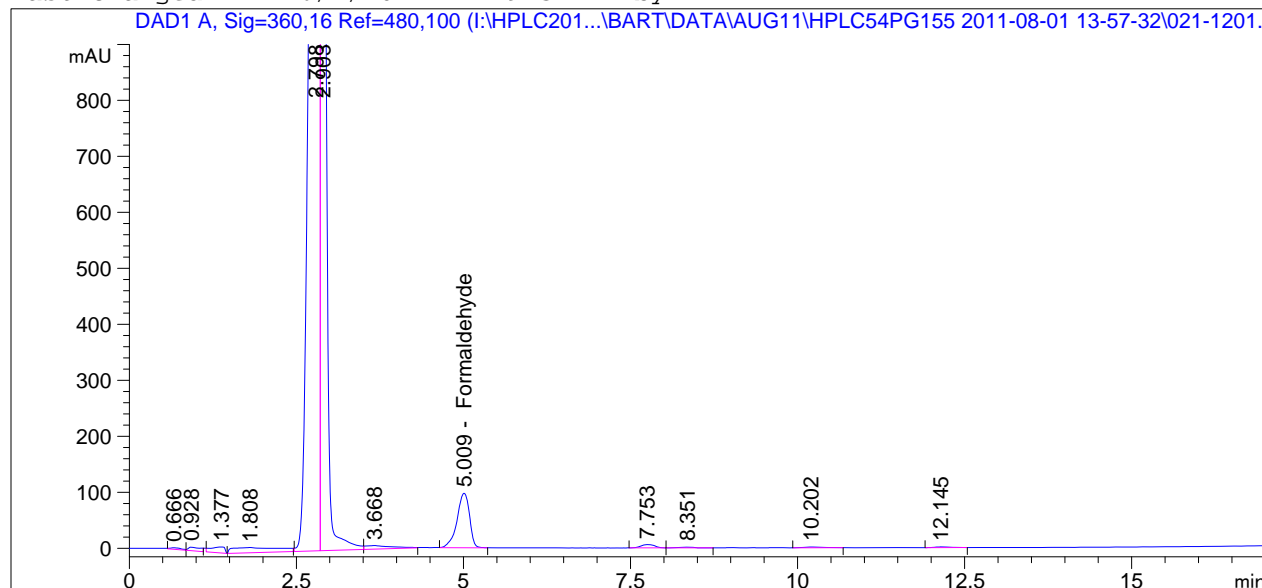
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   12
Acq. Instrument : Bart                               Location  : Vial 21
Injection Date  : 8/1/2011 5:55:38 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.009	BB	1265.35864	2.42472e-3	3.06814		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

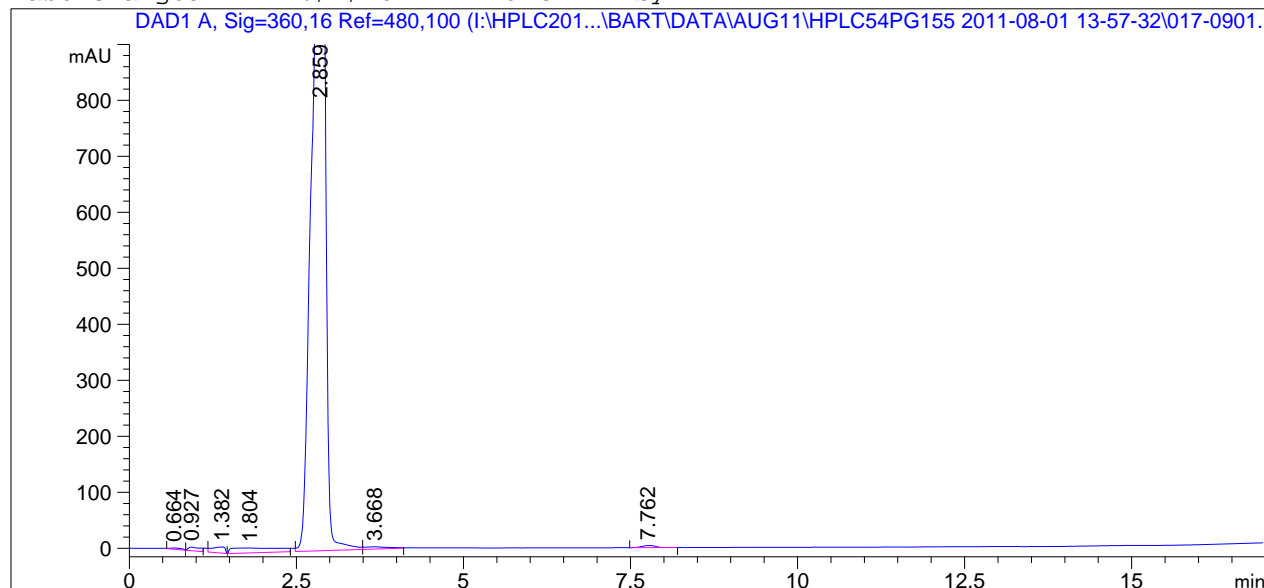
Totals : 3.06814

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    9
Acq. Instrument : Bart                               Location  : Vial 17
Injection Date  : 8/1/2011 4:51:08 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

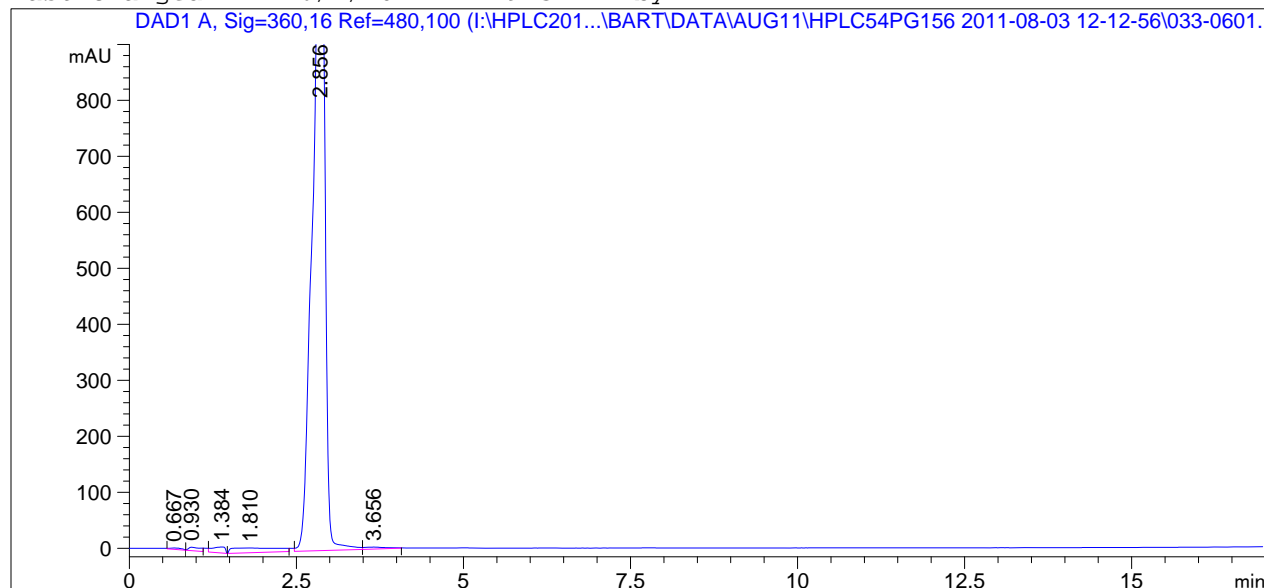
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found


```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    6
Acq. Instrument : Bart                               Location  : Vial 33
Injection Date  : 8/3/2011 2:02:05 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG156 2011-08-03 12-12-56\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

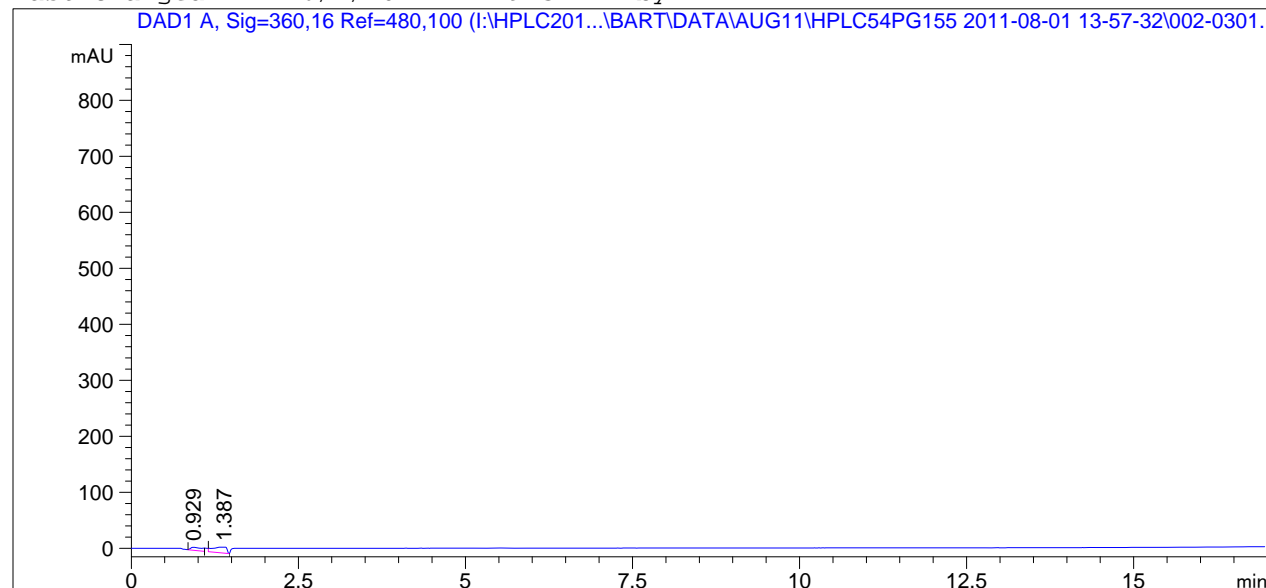
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    3
Acq. Instrument : Bart                               Location  : Vial 2
Injection Date  : 8/1/2011 2:42:21 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

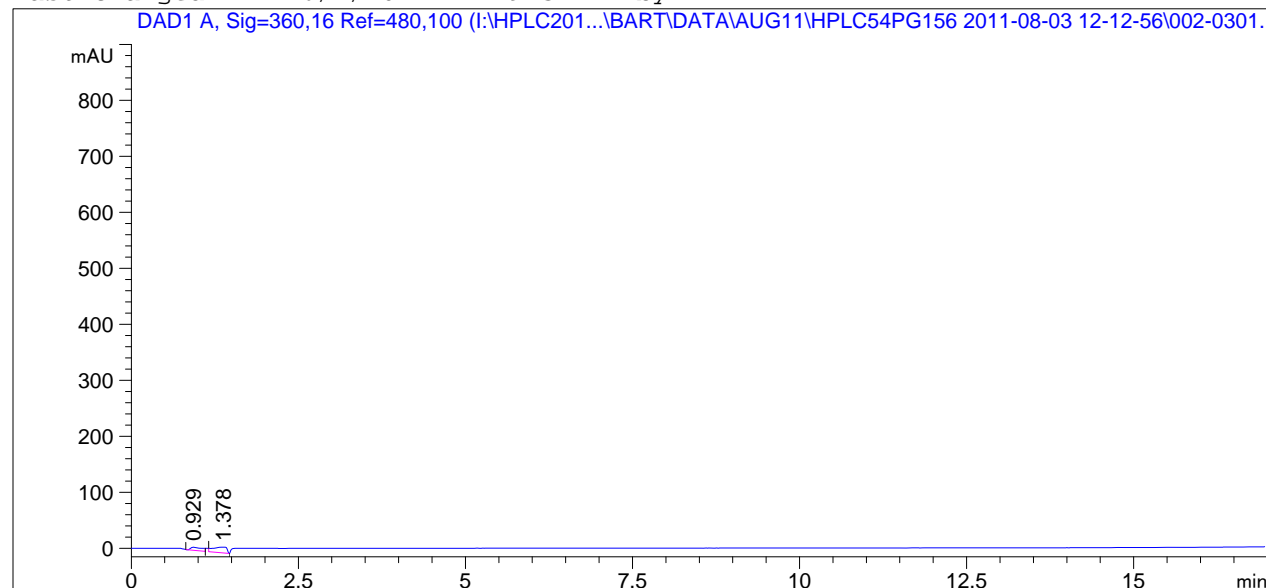
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    3
Acq. Instrument : Bart                               Location  : Vial 2
Injection Date  : 8/3/2011 12:57:38 PM                Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG156 2011-08-03 12-12-56\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

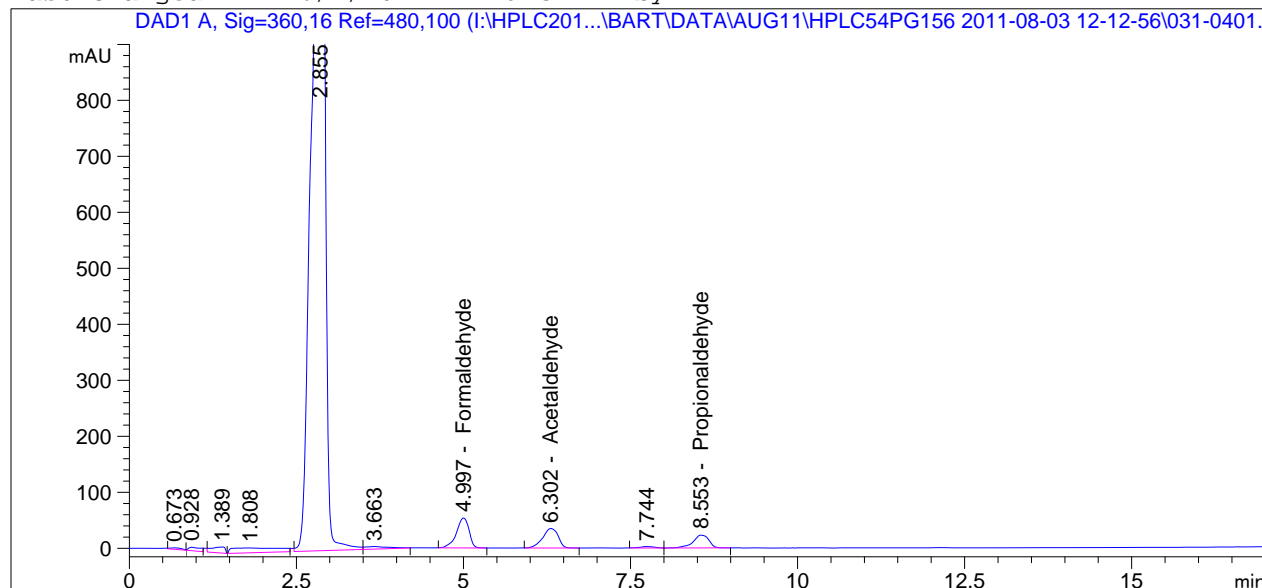
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    4
Acq. Instrument : Bart                               Location  : Vial 31
Injection Date  : 8/3/2011 1:19:07 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG156 2011-08-03 12-12-56\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.997	BB	703.58630	2.42472e-3	1.70600		Formaldehyde
6.302	BB	560.14679	3.41603e-3	1.91348		Acetaldehyde
8.553	VB	379.36218	4.41958e-3	1.67662		Propionaldehyde

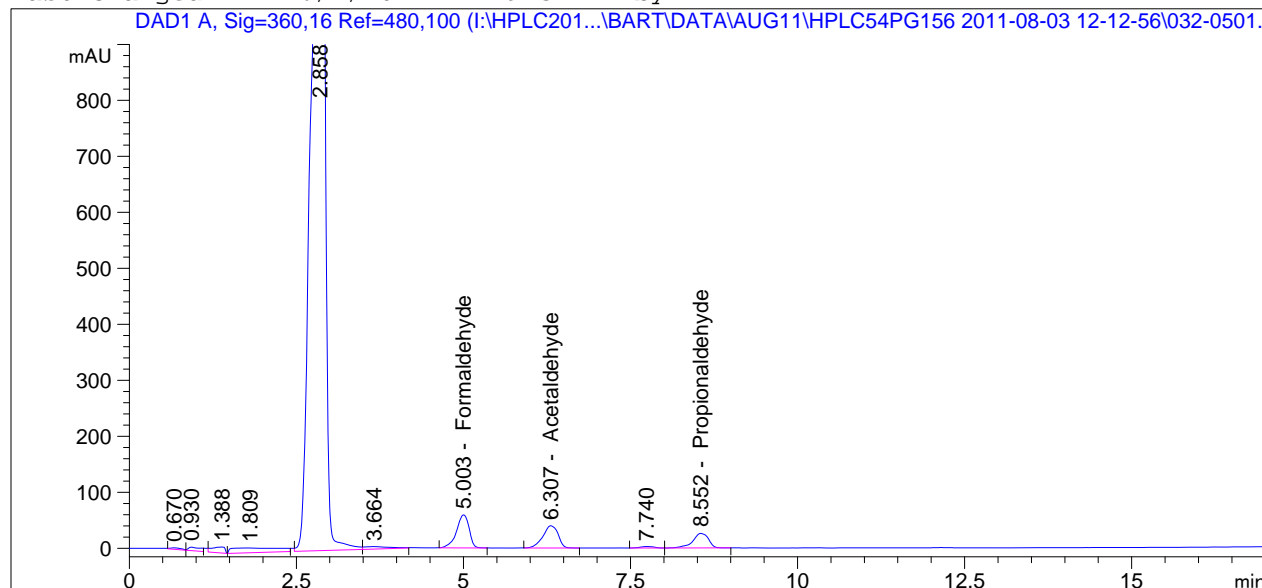
Totals : 5.29610

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    5
Acq. Instrument : Bart                               Location  : Vial 32
Injection Date  : 8/3/2011 1:40:39 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG156 2011-08-03 12-12-56\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.003	BB	775.55237	2.42472e-3	1.88050		Formaldehyde
6.307	BB	629.67773	3.41603e-3	2.15100		Acetaldehyde
8.552	VB	425.15265	4.41958e-3	1.87900		Propionaldehyde

Totals : 5.91049

1 Warnings or Errors :

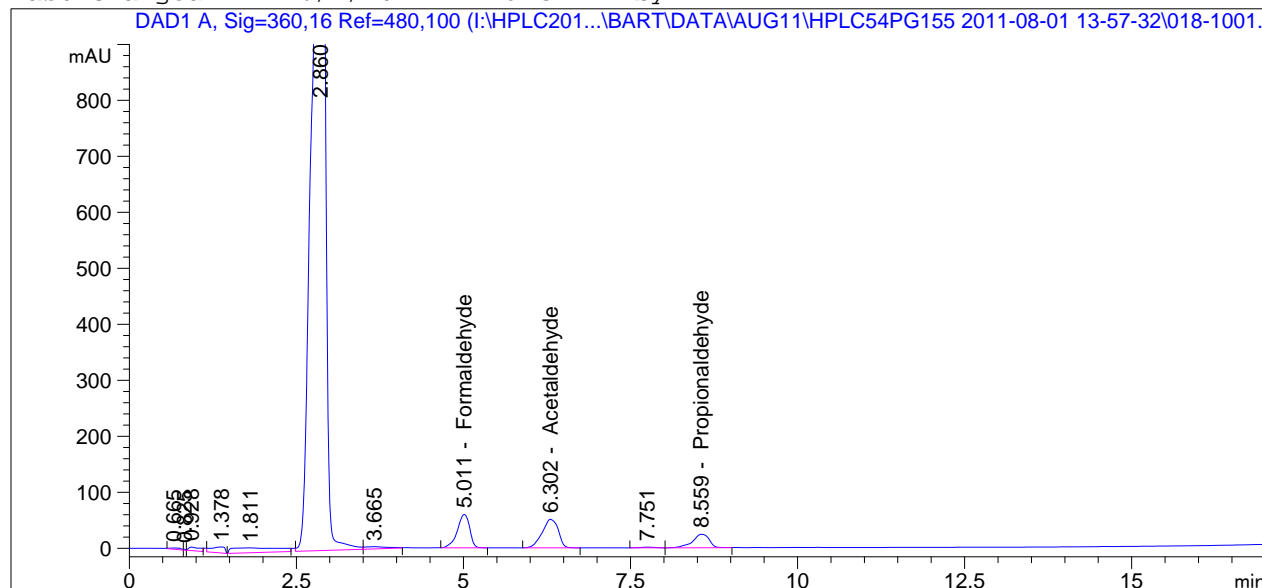
Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```

=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   10
Acq. Instrument : Bart                               Location  : Vial 18
Injection Date  : 8/1/2011 5:12:36 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.011	BB	771.04132	2.42472e-3	1.86956		Formaldehyde
6.302	BB	851.58392	3.41603e-3	2.90904		Acetaldehyde
8.559	VB	412.31650	4.41958e-3	1.82227		Propionaldehyde

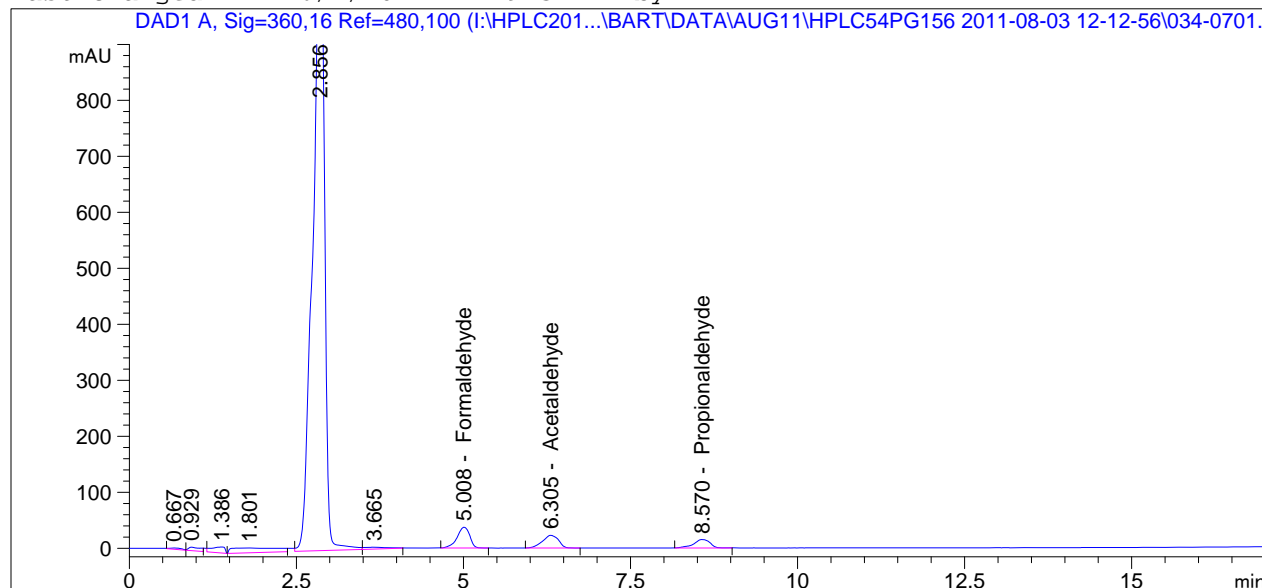
Totals : 6.60086

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    7
Acq. Instrument : Bart                               Location  : Vial 34
Injection Date  : 8/3/2011 2:23:32 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG156 2011-08-03 12-12-56\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.008	BB	490.79730	2.42472e-3	1.19005		Formaldehyde
6.305	BB	379.02081	3.41603e-3	1.29475		Acetaldehyde
8.570	BB	256.79666	4.41958e-3	1.13493		Propionaldehyde

Totals : 3.61973

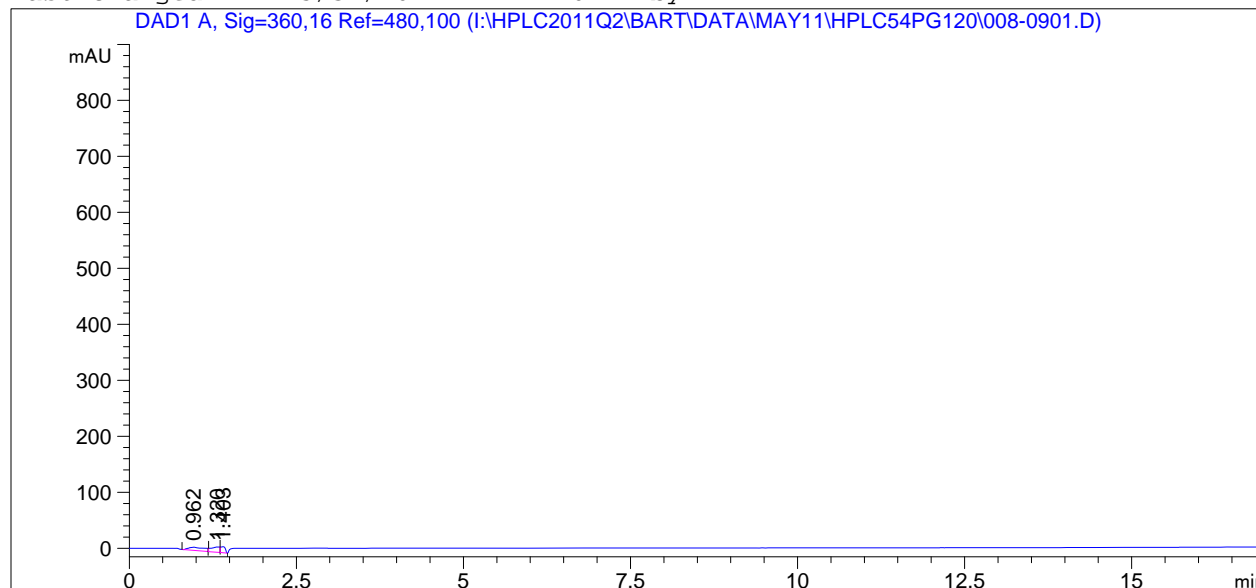
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : KHB                      Seq. Line :    9
Acq. Instrument : Bart                     Location  : Vial 8
Injection Date  : 5/27/2011 11:24:14 PM    Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
7.788	-	-	-	-	-	Acetone
8.093	-	-	-	-	-	Acrolein
8.604	-	-	-	-	-	Propionaldehyde

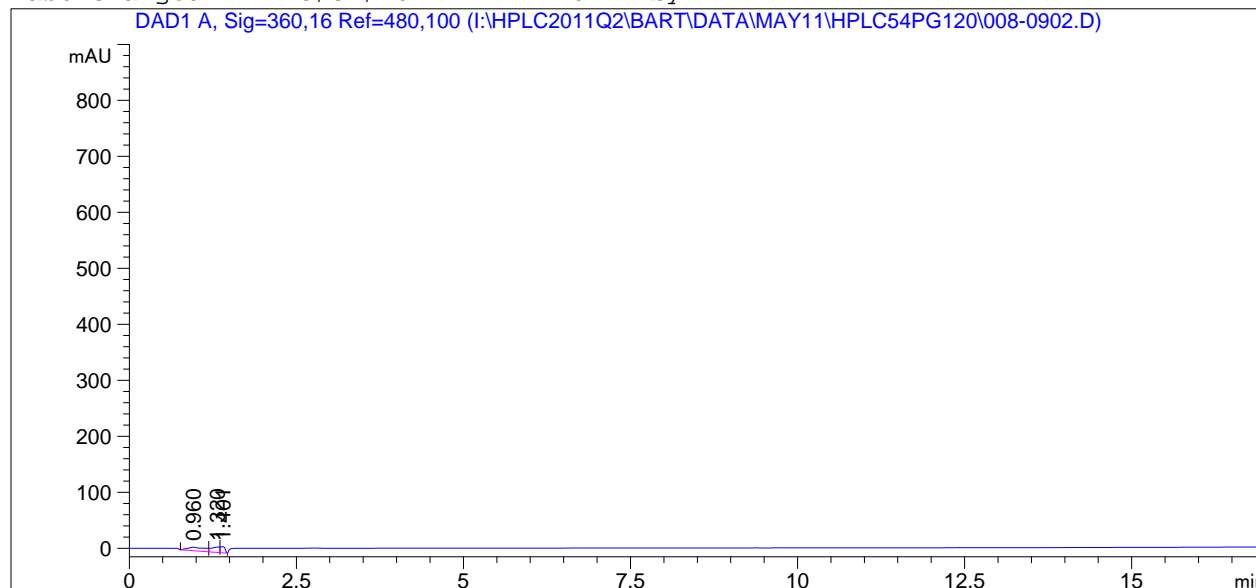
Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found


```
=====
Acq. Operator   : KHB                      Seq. Line :    9
Acq. Instrument : Bart                     Location  : Vial 8
Injection Date  : 5/27/2011 11:45:53 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
7.788	-	-	-	-	-	Acetone
8.093	-	-	-	-	-	Acrolein
8.604	-	-	-	-	-	Propionaldehyde

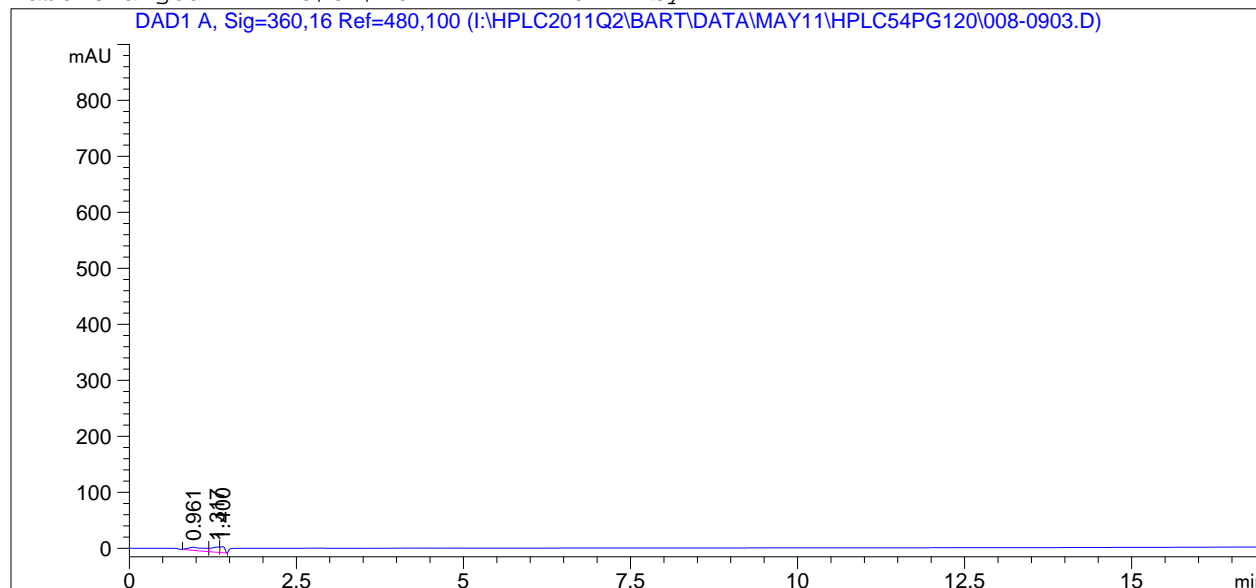
Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : KHB                      Seq. Line :    9
Acq. Instrument : Bart                    Location  : Vial 8
Injection Date  : 5/28/2011 12:07:30 AM    Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
7.788	-	-	-	-	-	Acetone
8.093	-	-	-	-	-	Acrolein
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Calibration Curve Chromatograms

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : 6/7/2011 11:27:58 AM

Rel. Reference Window : 5.000 %
 Abs. Reference Window : 0.000 min
 Rel. Non-ref. Window : 5.000 %
 Abs. Non-ref. Window : 0.000 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Average Response/Amount
 Origin : Ignored
 Weight : Equal

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
5.057	1	7.47000e-2	30.61963	2.43961e-3	Formaldehyde
	2	7.15000e-1	310.99482	2.29907e-3	
	3	2.50000	1000.60588	2.49849e-3	
	4	5.00000	2049.16028	2.44002e-3	
	5	9.01000	3688.39754	2.44280e-3	
	6	15.00000	6153.18799	2.43776e-3	
6.380	1	7.47000e-2	21.60617	3.45735e-3	Acetaldehyde
	2	7.15000e-1	220.44158	3.24349e-3	
	3	2.50000	712.11804	3.51065e-3	
	4	5.01000	1458.37695	3.43533e-3	
	5	9.01000	2621.98153	3.43633e-3	
	6	15.00000	4378.88102	3.42553e-3	
8.604	1	7.46000e-2	16.01441	4.65831e-3	Propionaldehyde
	2	7.14000e-1	171.99996	4.15116e-3	
	3	2.50000	553.96212	4.51294e-3	
	4	5.00000	1133.32080	4.41181e-3	
	5	9.00000	2038.95015	4.41404e-3	
	6	15.00000	3408.43978	4.40084e-3	

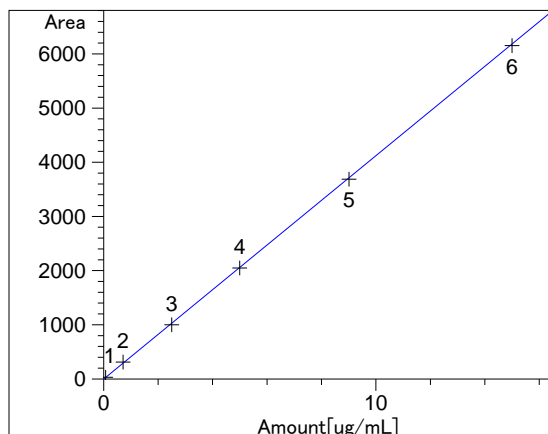
1 Warnings or Errors :

Warning : Overlapping peak time windows at 8.604 min, signal 1

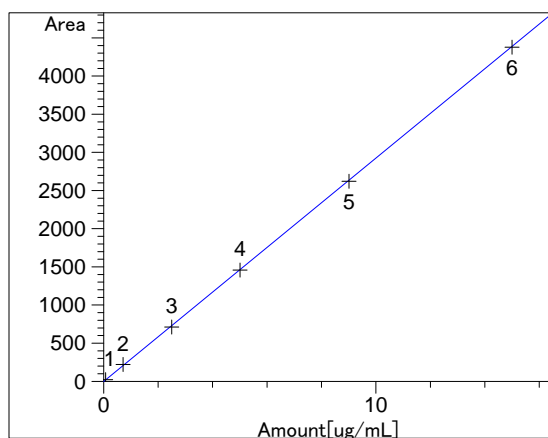
```
=====
                        Peak Sum Table
=====
```

No Entrees in table
 Page Analytical
 FSD 1108-200

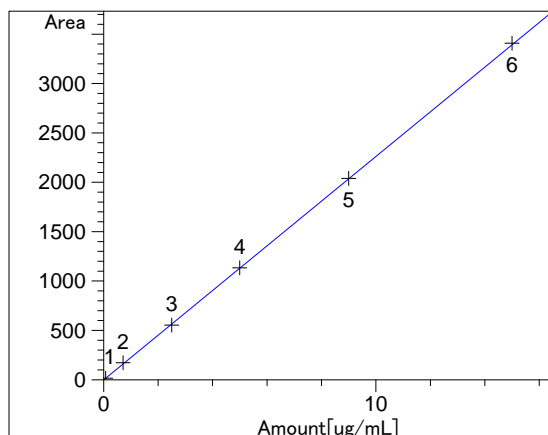
FHR Pine Bend LLC
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=====
=====
Calibration Curves
=====

Formaldehyde at exp. RT: 5.057
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 28.30642
Formula: $y = mx$
m: 412.41885
x: Amount
y: Area



Acetaldehyde at exp. RT: 6.380
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 15.58800
Formula: $y = mx$
m: 292.73714
x: Amount
y: Area



Propionaldehyde at exp. RT: 8.604
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 10.79580
Formula: $y = mx$
m: 226.26583
x: Amount
y: Area

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM

Rel. Reference Window : 5.000 %
 Abs. Reference Window : 0.000 min
 Rel. Non-ref. Window : 5.000 %
 Abs. Non-ref. Window : 0.000 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Average Response/Amount
 Origin : Ignored
 Weight : Equal

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
5.057	1	7.47000e-2	30.61963	2.43961e-3	Formaldehyde
	2	7.15000e-1	310.99482	2.29907e-3	
	3	2.50000	1000.60588	2.49849e-3	
	4	5.00000	2049.16028	2.44002e-3	
	5	9.01000	3688.39754	2.44280e-3	
	6	15.00000	6153.18799	2.43776e-3	
6.380	1	7.47000e-2	21.60617	3.45735e-3	Acetaldehyde
	2	7.15000e-1	220.44158	3.24349e-3	
	3	2.50000	712.11804	3.51065e-3	
	4	5.01000	1458.37695	3.43533e-3	
	5	9.01000	2621.98153	3.43633e-3	
	6	15.00000	4378.88102	3.42553e-3	
7.788	1	7.47000e-2	16.62340	4.49366e-3	Acetone
	2	7.15000e-1	165.24312	4.32696e-3	
	3	2.50000	533.17934	4.68885e-3	
	4	5.00000	1092.29525	4.57752e-3	
	5	9.01000	1967.45394	4.57952e-3	
	6	15.00000	3276.86100	4.57755e-3	
8.093	1	7.47000e-2	20.19522	3.69889e-3	Acrolein
	2	7.15000e-1	195.41486	3.65888e-3	
	3	2.50000	629.92090	3.96875e-3	
	4	5.01000	1287.60856	3.89093e-3	
	5	9.01000	2315.26774	3.89156e-3	
	6	15.00000	3867.90869	3.87806e-3	
8.604	1	7.46000e-2	16.01441	4.65831e-3	Propionaldehyde
	2	7.14000e-1	171.99996	4.15116e-3	
	3	2.50000	553.96212	4.51294e-3	
	5	9.00000	1133.32080	4.41181e-3	

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 FSD 1108-200

FHR Pine Bend LLC
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RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
5		9.00000	2038.95015	4.41404e-3	
6		15.00000	3408.43978	4.40084e-3	

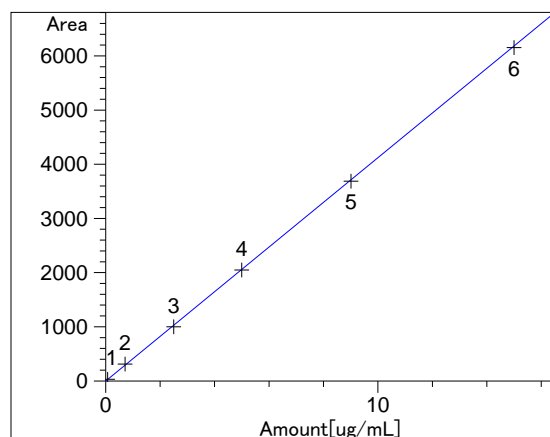
1 Warnings or Errors :

Warning : Overlapping peak time windows at 7.788 min, signal 1

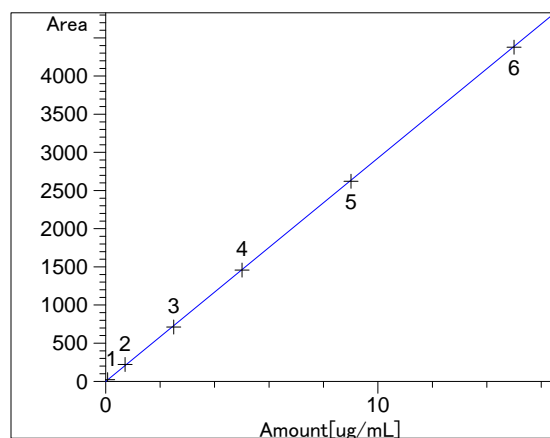
Peak Sum Table

No Entries in table

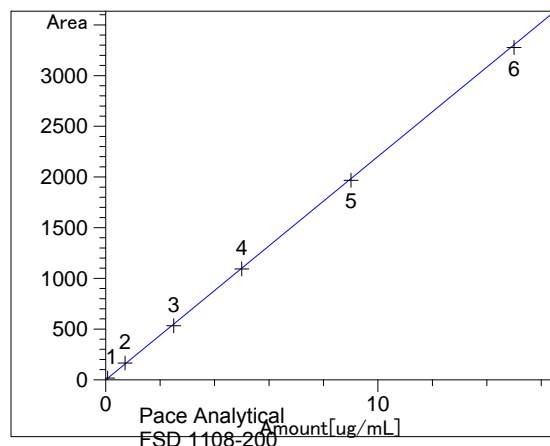
Calibration Curves



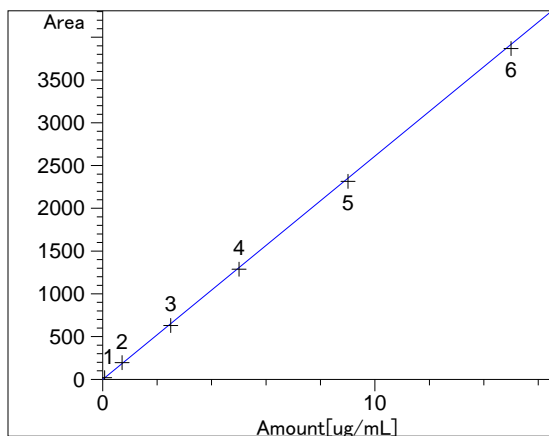
Formaldehyde at exp. RT: 5.057
 DAD1 A, Sig=360,16 Ref=480,100
 Correlation: 0.99998
 Residual Std. Dev.: 28.30642
 Formula: $y = mx$
 m: 412.41885
 x: Amount
 y: Area



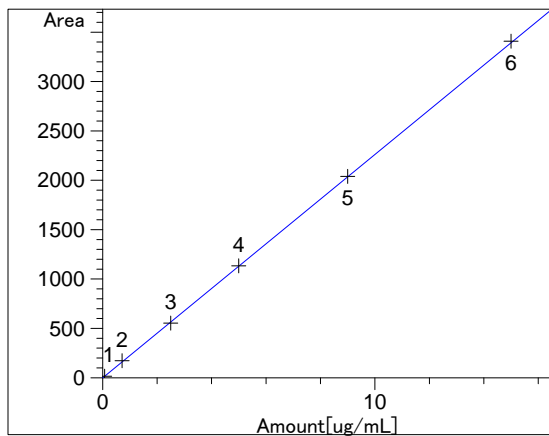
Acetaldehyde at exp. RT: 6.380
 DAD1 A, Sig=360,16 Ref=480,100
 Correlation: 0.99998
 Residual Std. Dev.: 15.58800
 Formula: $y = mx$
 m: 292.73714
 x: Amount
 y: Area



Acetone at exp. RT: 7.788
 DAD1 A, Sig=360,16 Ref=480,100
 Correlation: 0.99998
 Residual Std. Dev.: 20.06094
 Formula: $y = mx$
 m: 220.36606
 x: Amount
 y: Area



Acrolein at exp. RT: 8.093
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 35.78804
Formula: $y = mx$
m: 261.24361
x: Amount
y: Area



Propionaldehyde at exp. RT: 8.604
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 10.79580
Formula: $y = mx$
m: 226.26583
x: Amount
y: Area

=====

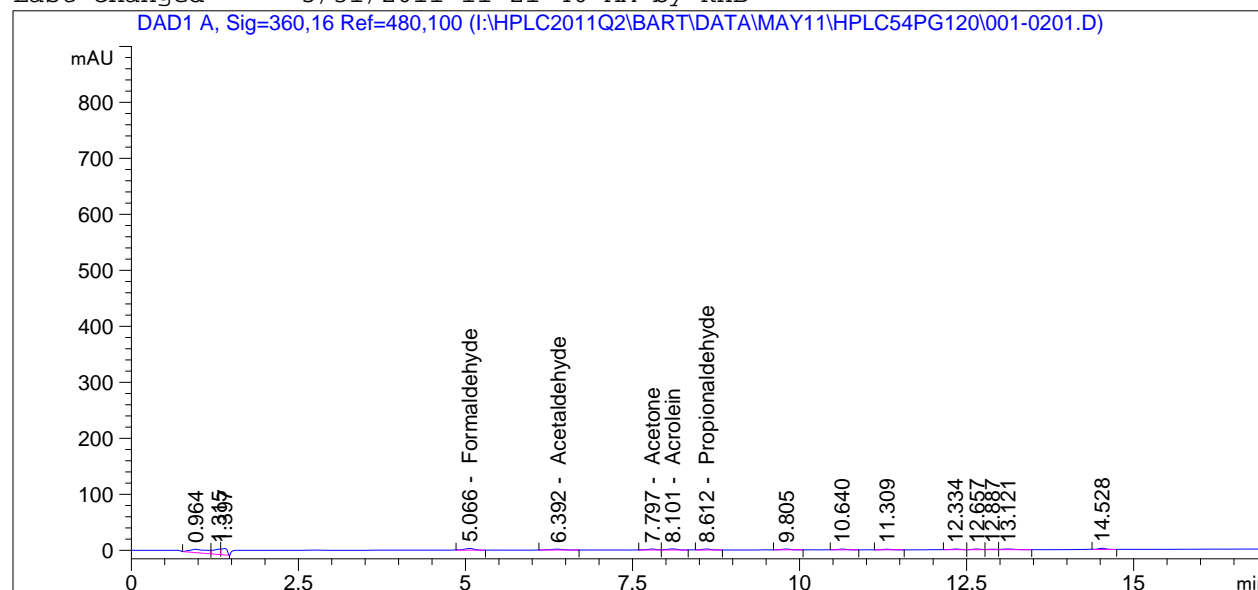
Sample Name: hplc54pg120 #1

```

=====
Acq. Operator   : KHB                      Seq. Line :    2
Acq. Instrument : Bart                    Location  : Vial 1
Injection Date  : 5/27/2011 3:49:47 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



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=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.066	BB	29.63630	2.42472e-3	7.18597e-2		Formaldehyde
6.392	BB	22.03458	3.41603e-3	7.52709e-2		Acetaldehyde
7.797	BV	16.60152	4.53790e-3	7.53361e-2		Acetone
8.101	VB	20.15335	3.82784e-3	7.71439e-2		Acrolein
8.612	BB	16.10484	4.41958e-3	7.11766e-2		Propionaldehyde

Totals : 3.70787e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

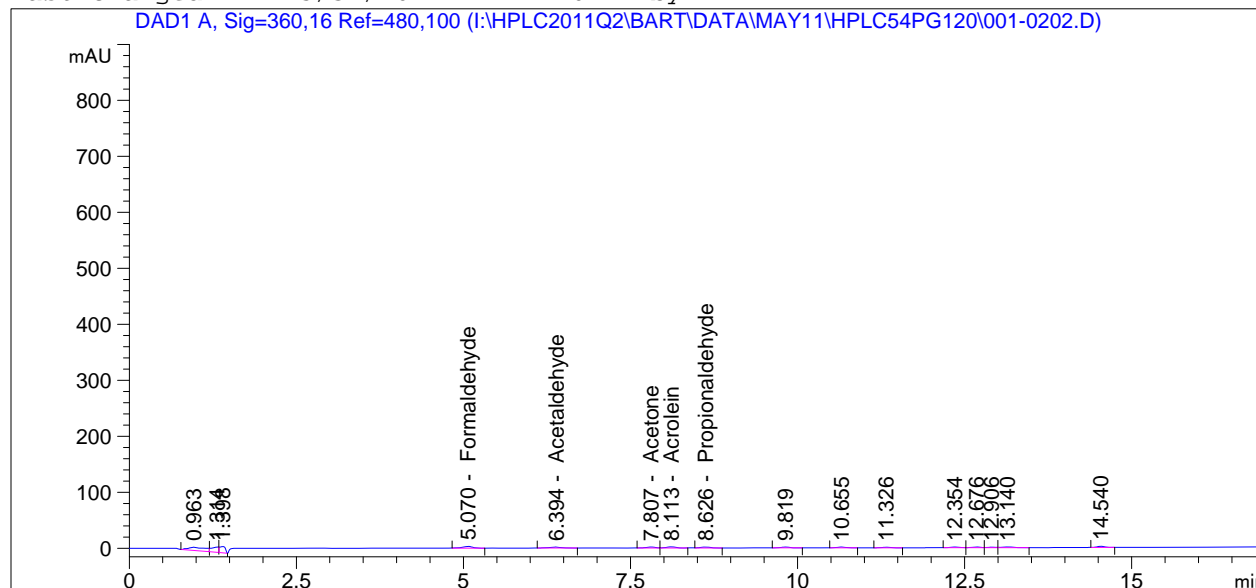
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : KHB                      Seq. Line :    2
Acq. Instrument : Bart                    Location  : Vial 1
Injection Date  : 5/27/2011 4:11:25 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.070	BB	31.00495	2.42472e-3	7.51783e-2		Formaldehyde
6.394	BB	21.29319	3.41603e-3	7.27383e-2		Acetaldehyde
7.807	BV	16.89919	4.53790e-3	7.66869e-2		Acetone
8.113	VB	20.30722	3.82784e-3	7.77329e-2		Acrolein
8.626	BB	16.01859	4.41958e-3	7.07955e-2		Propionaldehyde

Totals : 3.73132e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

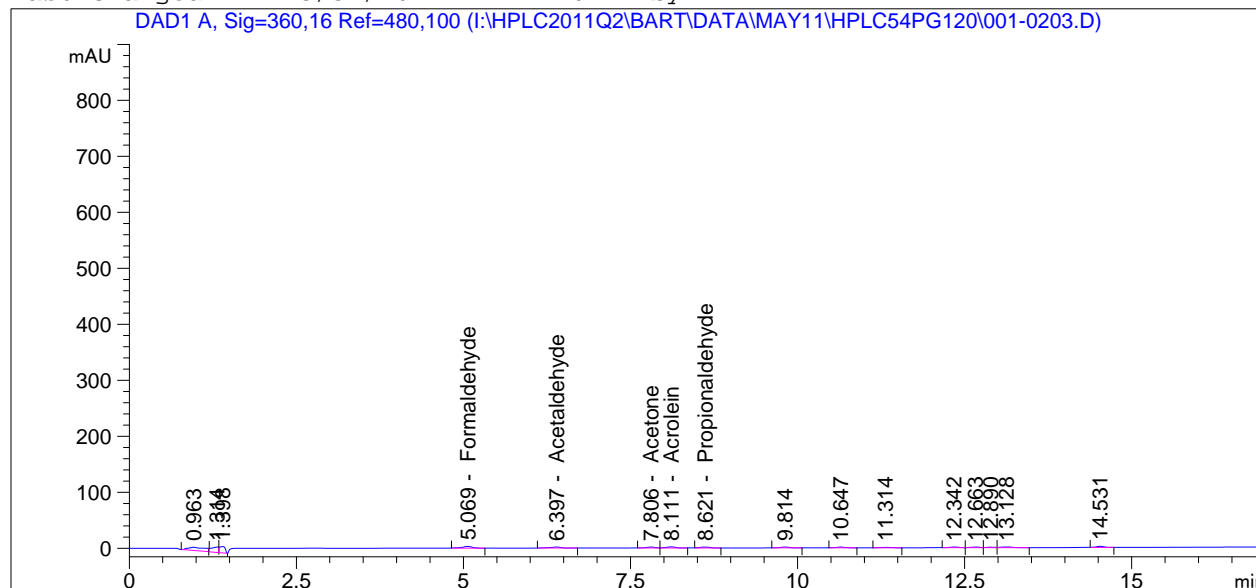
Sample Name: hplc54pg120 #1

```

=====
Acq. Operator   : KHB                      Seq. Line :    2
Acq. Instrument : Bart                    Location  : Vial 1
Injection Date  : 5/27/2011 4:33:05 PM      Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.069	BB	31.21763	2.42472e-3	7.56940e-2		Formaldehyde
6.397	BB	21.49072	3.41603e-3	7.34130e-2		Acetaldehyde
7.806	BV	16.36949	4.53790e-3	7.42832e-2		Acetone
8.111	VB	20.12511	3.82784e-3	7.70358e-2		Acrolein
8.621	BB	15.91979	4.41958e-3	7.03588e-2		Propionaldehyde

Totals : 3.70785e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

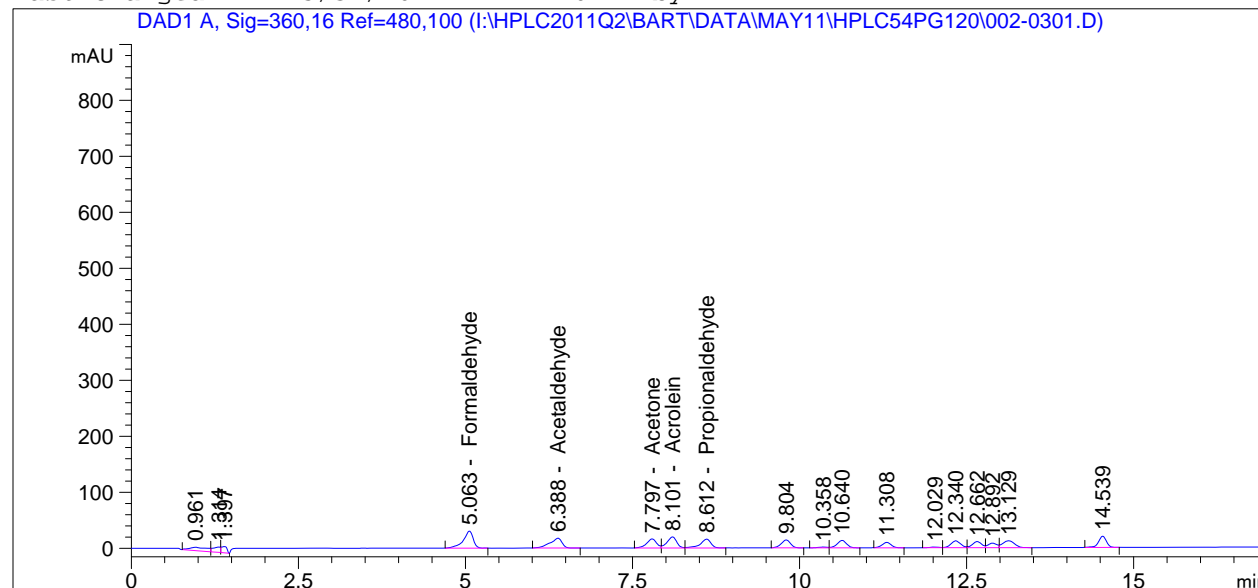
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : KHB                      Seq. Line :    3
Acq. Instrument : Bart                    Location  : Vial 2
Injection Date  : 5/27/2011 4:54:43 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	311.51663	2.42472e-3	7.55340e-1		Formaldehyde
6.388	BB	221.01292	3.41603e-3	7.54988e-1		Acetaldehyde
7.797	BV	166.06204	4.53790e-3	7.53574e-1		Acetone
8.101	VV	195.89969	3.82784e-3	7.49874e-1		Acrolein
8.612	VB	172.74652	4.41958e-3	7.63467e-1		Propionaldehyde

Totals : 3.77724

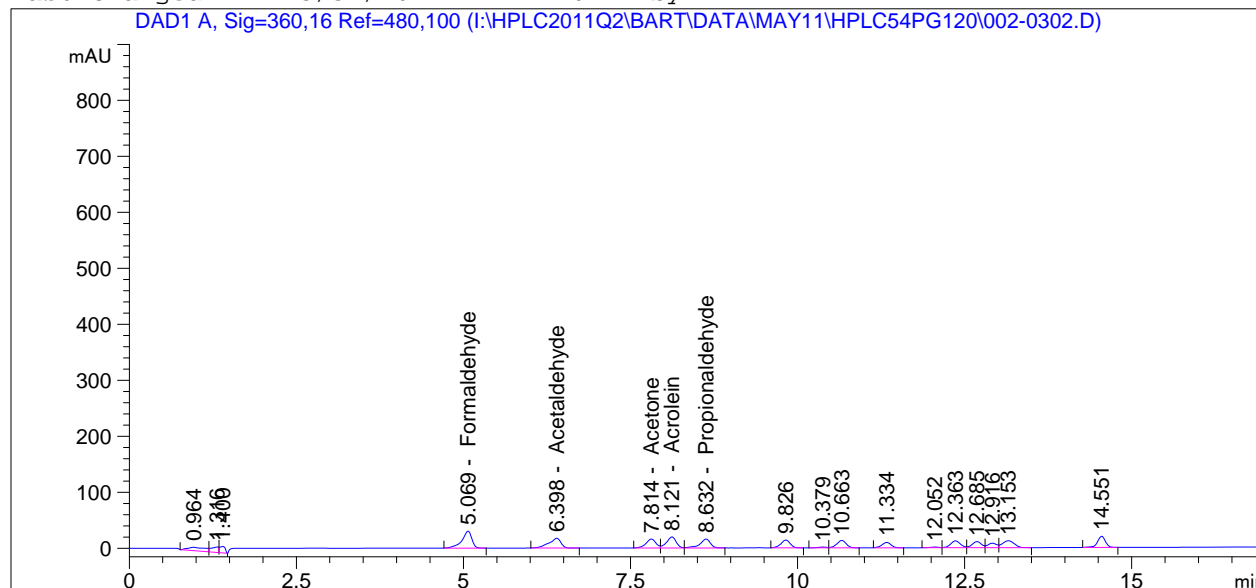
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : KHB                      Seq. Line :    3
Acq. Instrument : Bart                     Location  : Vial 2
Injection Date  : 5/27/2011 5:16:23 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.069	BB	310.92529	2.42472e-3	7.53907e-1		Formaldehyde
6.398	BB	220.41605	3.41603e-3	7.52949e-1		Acetaldehyde
7.814	BV	164.85385	4.53790e-3	7.48091e-1		Acetone
8.121	VV	195.58609	3.82784e-3	7.48673e-1		Acrolein
8.632	VB	171.94592	4.41958e-3	7.59929e-1		Propionaldehyde

Totals : 3.76355

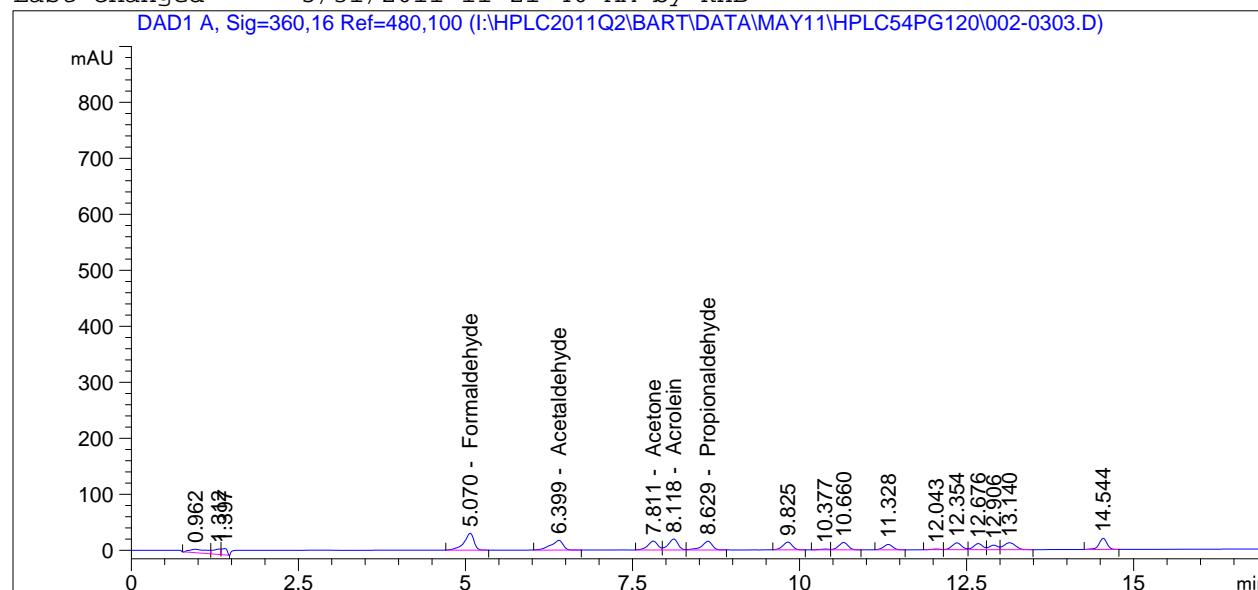
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : KHB                      Seq. Line :    3
Acq. Instrument : Bart                    Location  : Vial 2
Injection Date  : 5/27/2011 5:38:01 PM      Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.070	BB	310.54254	2.42472e-3	7.52979e-1		Formaldehyde
6.399	BB	219.89577	3.41603e-3	7.51171e-1		Acetaldehyde
7.811	BV	164.81348	4.53790e-3	7.47908e-1		Acetone
8.118	VV	194.75879	3.82784e-3	7.45506e-1		Acrolein
8.629	VB	171.30743	4.41958e-3	7.57107e-1		Propionaldehyde

Totals : 3.75467

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

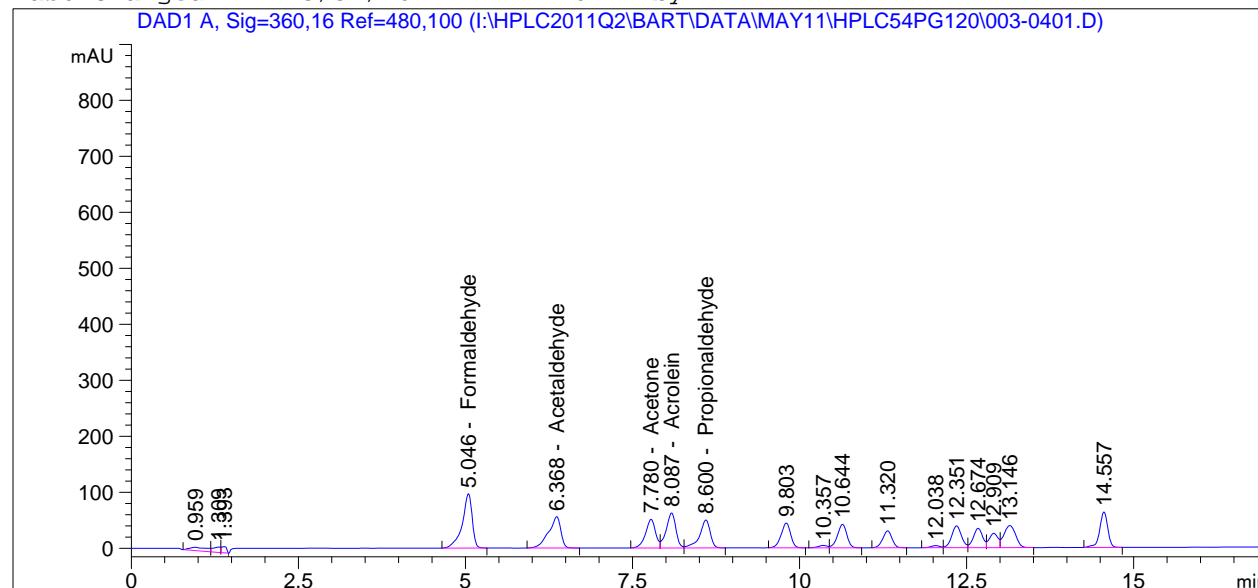
Sample Name: hplc54pg120 #3

```

=====
Acq. Operator   : KHB                      Seq. Line :    4
Acq. Instrument : Bart                    Location  : Vial 3
Injection Date  : 5/27/2011 5:59:39 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.046	BB	998.41003	2.42472e-3	2.42086		Formaldehyde
6.368	BB	709.74158	3.41603e-3	2.42450		Acetaldehyde
7.780	BV	531.52472	4.53790e-3	2.41201		Acetone
8.087	VV	627.80054	3.82784e-3	2.40312		Acrolein
8.600	VB	551.54254	4.41958e-3	2.43759		Propionaldehyde

Totals : 12.09808

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

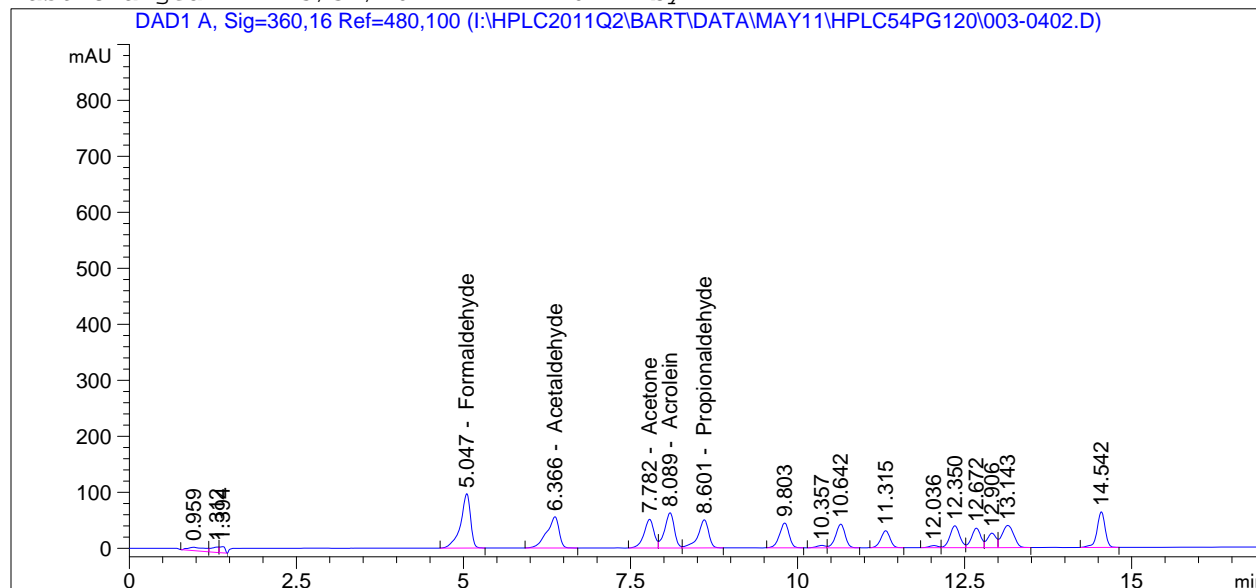
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : KHB                      Seq. Line :    4
Acq. Instrument : Bart                    Location  : Vial 3
Injection Date  : 5/27/2011 6:21:18 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.047	BB	1000.59607	2.42472e-3	2.42616		Formaldehyde
6.366	BB	712.76935	3.41603e-3	2.43484		Acetaldehyde
7.782	BV	534.88556	4.53790e-3	2.42726		Acetone
8.089	VV	630.79639	3.82784e-3	2.41459		Acrolein
8.601	VB	555.57050	4.41958e-3	2.45539		Propionaldehyde

Totals : 12.15825

1 Warnings or Errors :

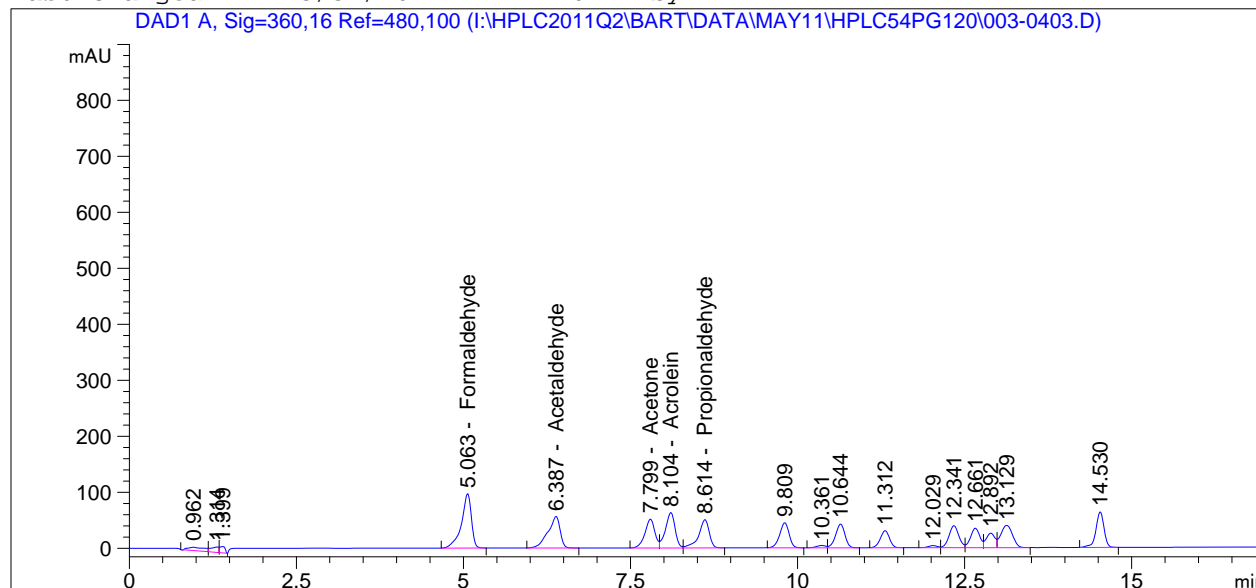
Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : KHB                      Seq. Line :    4
Acq. Instrument : Bart                     Location  : Vial 3
Injection Date  : 5/27/2011 6:42:57 PM      Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	1002.81152	2.42472e-3	2.43154		Formaldehyde
6.387	BB	713.84320	3.41603e-3	2.43851		Acetaldehyde
7.799	BV	533.12775	4.53790e-3	2.41928		Acetone
8.104	VV	631.16577	3.82784e-3	2.41600		Acrolein
8.614	VB	554.77332	4.41958e-3	2.45187		Propionaldehyde

Totals : 12.15720

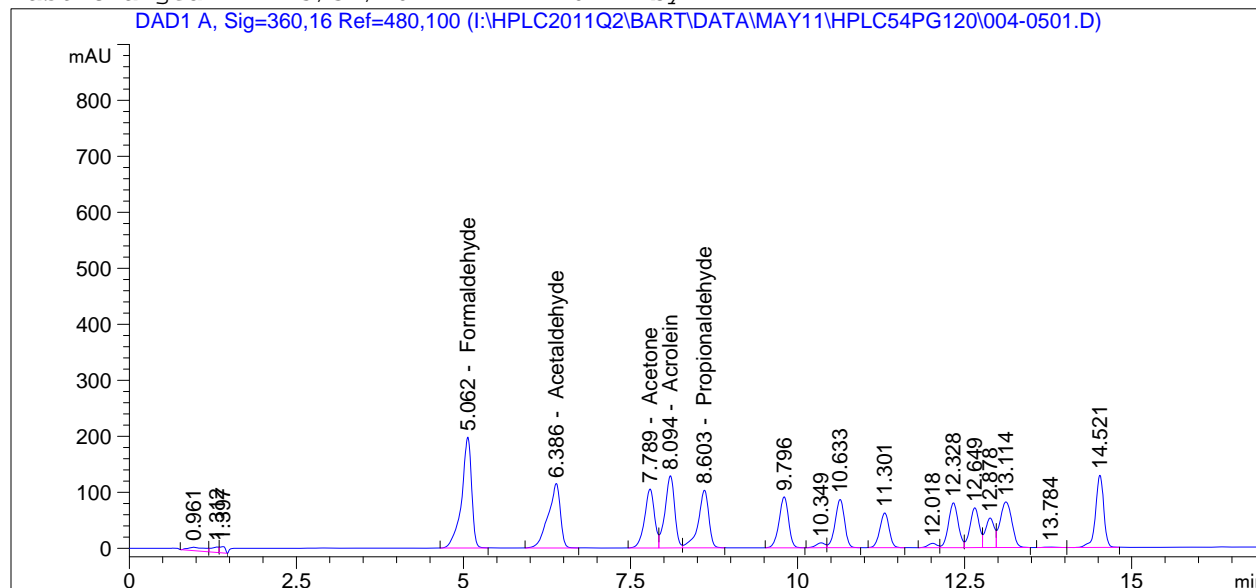
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

```
=====
Acq. Operator   : KHB                      Seq. Line :    5
Acq. Instrument : Bart                     Location  : Vial 4
Injection Date  : 5/27/2011 7:04:36 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.062	BB	2044.54797	2.42472e-3	4.95746		Formaldehyde
6.386	BB	1454.89929	3.41603e-3	4.96999		Acetaldehyde
7.789	BV	1085.05432	4.53790e-3	4.92387		Acetone
8.094	VV	1287.47888	3.82784e-3	4.92827		Acrolein
8.603	VB	1130.24646	4.41958e-3	4.99522		Propionaldehyde

Totals : 24.77480

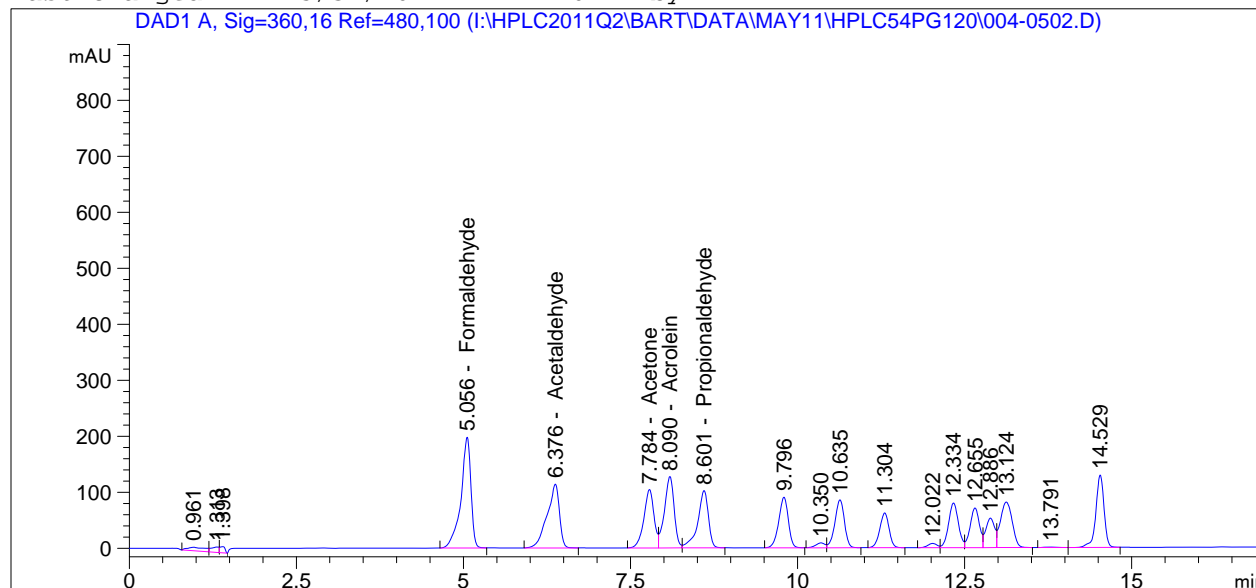
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : KHB                      Seq. Line :    5
Acq. Instrument : Bart                     Location  : Vial 4
Injection Date  : 5/27/2011 7:26:13 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.056	BB	2051.84546	2.42472e-3	4.97515		Formaldehyde
6.376	BB	1460.14539	3.41603e-3	4.98791		Acetaldehyde
7.784	BV	1094.21240	4.53790e-3	4.96543		Acetone
8.090	VV	1288.81555	3.82784e-3	4.93339		Acrolein
8.601	VB	1135.35559	4.41958e-3	5.01780		Propionaldehyde

Totals : 24.87967

1 Warnings or Errors :

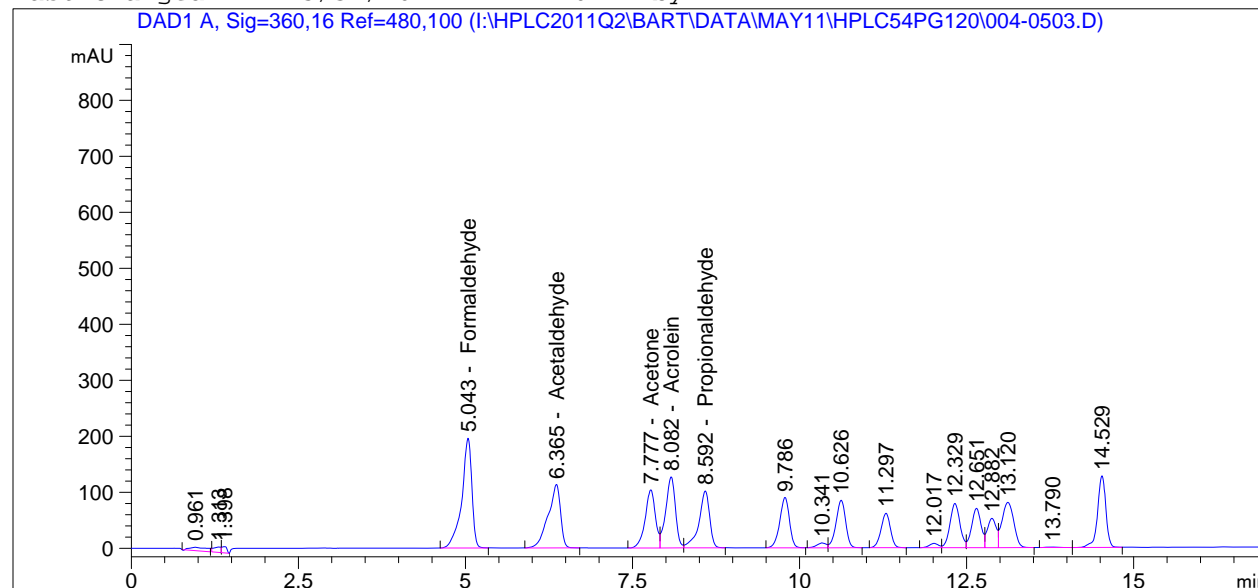
Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

Sample Name: hplc54pg120 #4

```
=====
Acq. Operator   : KHB                      Seq. Line :    5
Acq. Instrument : Bart                    Location  : Vial 4
Injection Date  : 5/27/2011 7:47:52 PM      Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.043	BB	2051.08740	2.42472e-3	4.97331		Formaldehyde
6.365	BB	1460.08618	3.41603e-3	4.98770		Acetaldehyde
7.777	BV	1097.61902	4.53790e-3	4.98089		Acetone
8.082	VV	1286.53125	3.82784e-3	4.92464		Acrolein
8.592	VB	1134.36035	4.41958e-3	5.01340		Propionaldehyde

Totals : 24.87994

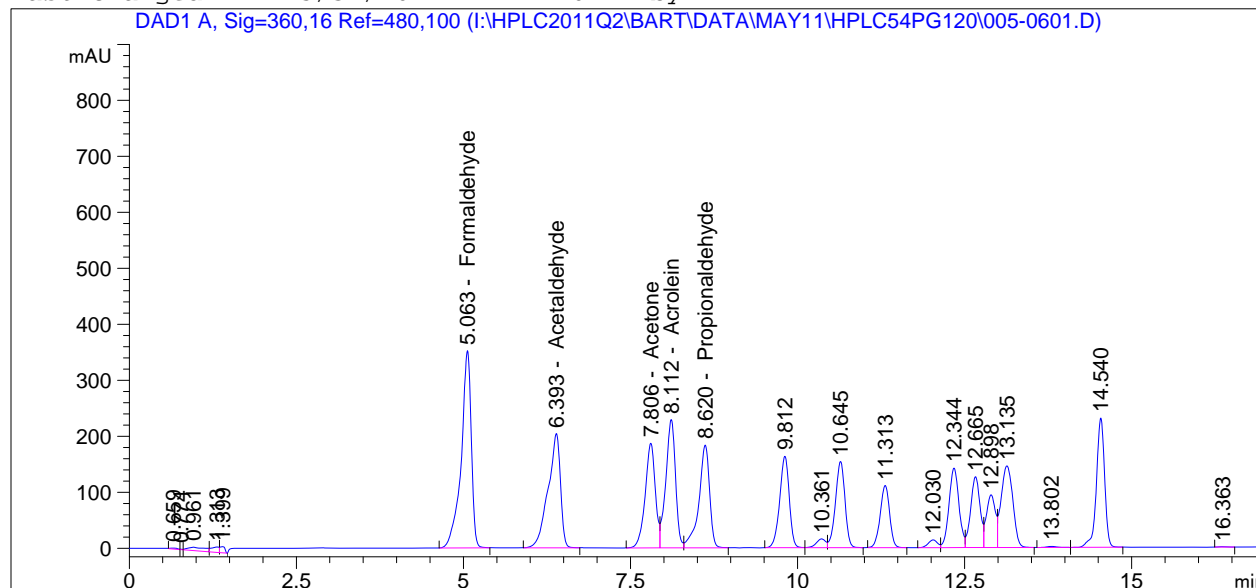
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : KHB                      Seq. Line :    6
Acq. Instrument : Bart                    Location  : Vial 5
Injection Date  : 5/27/2011 8:09:31 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	3694.70972	2.42472e-3	8.95863		Formaldehyde
6.393	BB	2628.70581	3.41603e-3	8.97975		Acetaldehyde
7.806	BV	1967.23157	4.53790e-3	8.92711		Acetone
8.112	VV	2322.37964	3.82784e-3	8.88971		Acrolein
8.620	VB	2043.09290	4.41958e-3	9.02961		Propionaldehyde

Totals : 44.78481

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

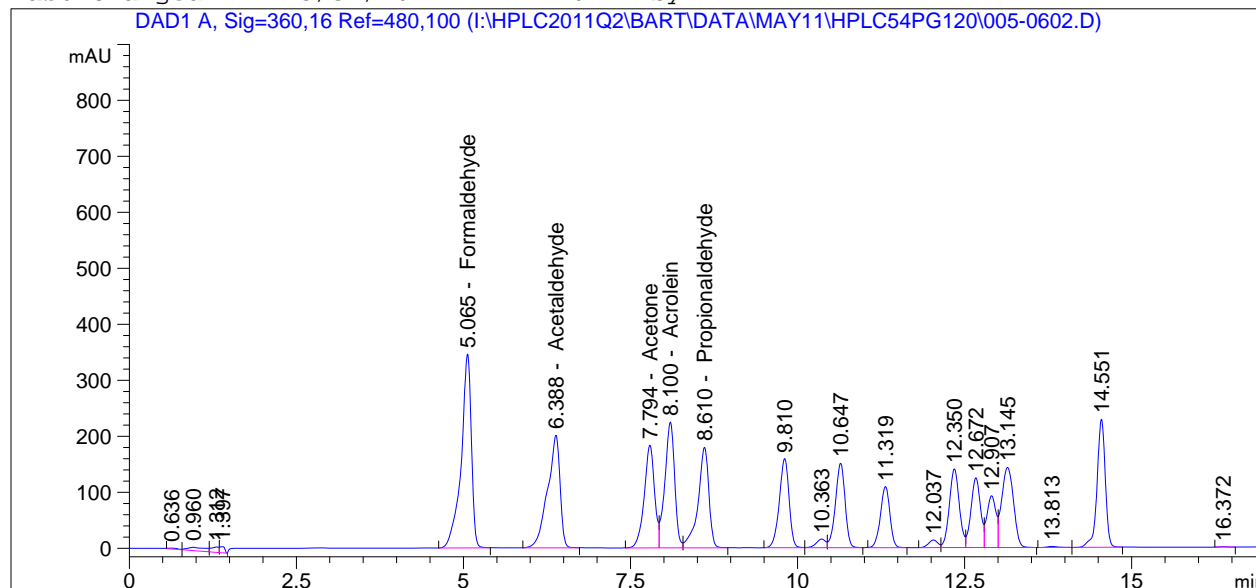
Sample Name: hplc54pg120 #5

```

=====
Acq. Operator   : KHB                      Seq. Line :    6
Acq. Instrument : Bart                    Location  : Vial 5
Injection Date  : 5/27/2011 8:31:10 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.065	BB	3663.10767	2.42472e-3	8.88201		Formaldehyde
6.388	BB	2602.87476	3.41603e-3	8.89151		Acetaldehyde
7.794	BV	1958.41614	4.53790e-3	8.88710		Acetone
8.100	VV	2293.68091	3.82784e-3	8.77985		Acrolein
8.610	VB	2025.27539	4.41958e-3	8.95087		Propionaldehyde

Totals : 44.39134

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

=====
*** End of Report ***
=====

```

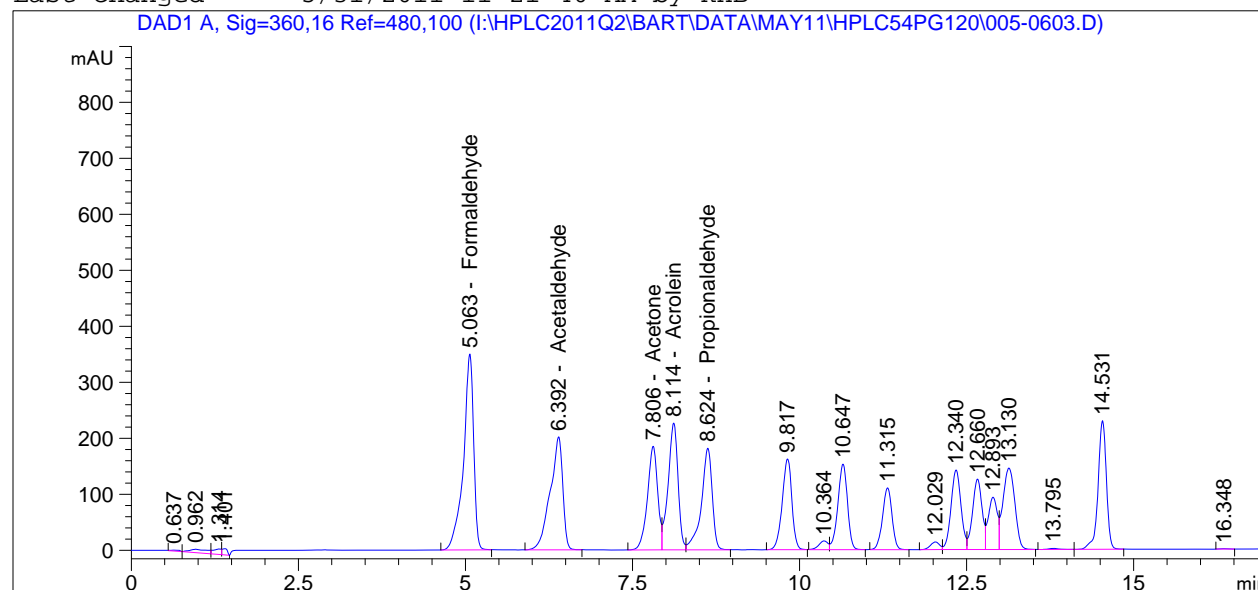
Sample Name: hplc54pg120 #5

```

=====
Acq. Operator   : KHB                      Seq. Line :    6
Acq. Instrument : Bart                    Location  : Vial 5
Injection Date  : 5/27/2011 8:52:48 PM      Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	3707.37524	2.42472e-3	8.98934		Formaldehyde
6.392	BB	2634.36401	3.41603e-3	8.99908		Acetaldehyde
7.806	BV	1976.71411	4.53790e-3	8.97014		Acetone
8.114	VV	2329.74268	3.82784e-3	8.91789		Acrolein
8.624	VB	2048.48218	4.41958e-3	9.05343		Propionaldehyde

Totals : 44.92989

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

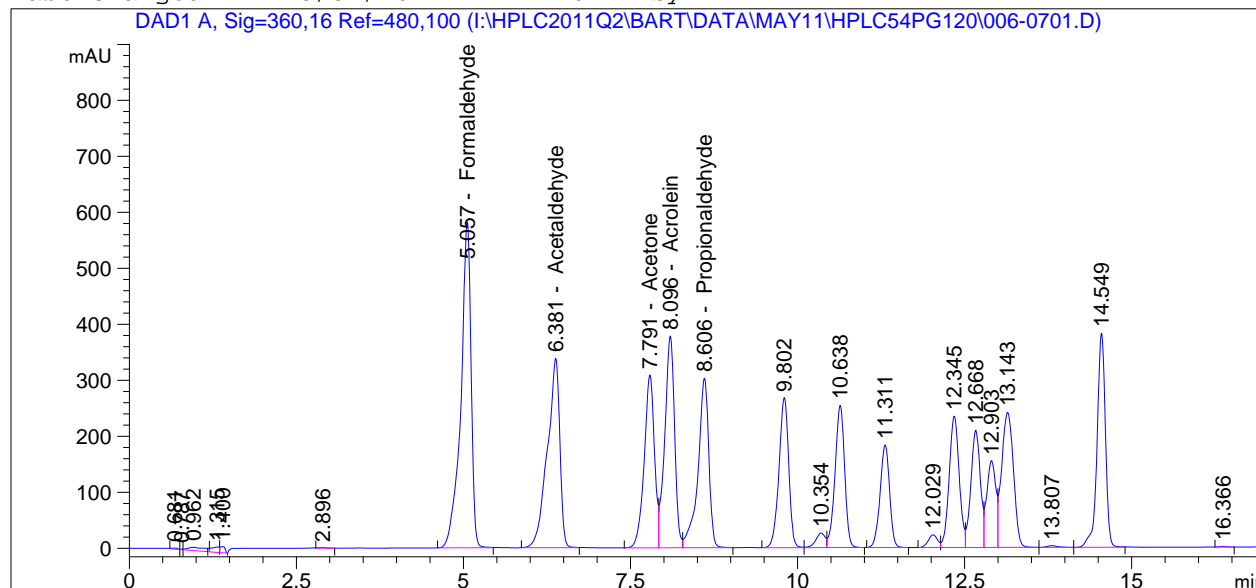
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : KHB                      Seq. Line :    7
Acq. Instrument : Bart                     Location  : Vial 6
Injection Date  : 5/27/2011 9:14:25 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	BB	6163.41943	2.42472e-3	14.94456		Formaldehyde
6.381	BB	4384.52734	3.41603e-3	14.97769		Acetaldehyde
7.791	BV	3290.95898	4.53790e-3	14.93406		Acetone
8.096	VV	3868.78564	3.82784e-3	14.80911		Acrolein
8.606	VB	3406.74805	4.41958e-3	15.05640		Propionaldehyde

Totals : 74.72182

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

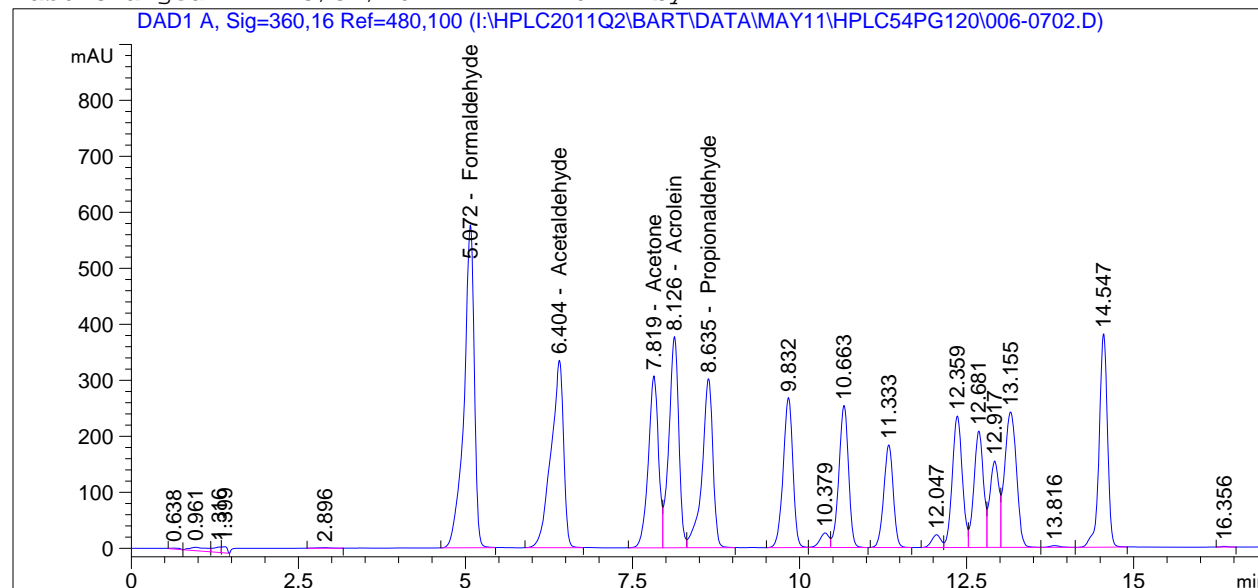

Sample Name: hplc54pg120 #6

```

=====
Acq. Operator   : KHB                      Seq. Line :    7
Acq. Instrument : Bart                    Location  : Vial 6
Injection Date  : 5/27/2011 9:36:05 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.072	BB	6128.59717	2.42472e-3	14.86013		Formaldehyde
6.404	BB	4362.37842	3.41603e-3	14.90203		Acetaldehyde
7.819	BV	3252.63745	4.53790e-3	14.76016		Acetone
8.126	VV	3856.25903	3.82784e-3	14.76116		Acrolein
8.635	VB	3395.85425	4.41958e-3	15.00825		Propionaldehyde

Totals : 74.29173

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

=====
*** End of Report ***
=====

```

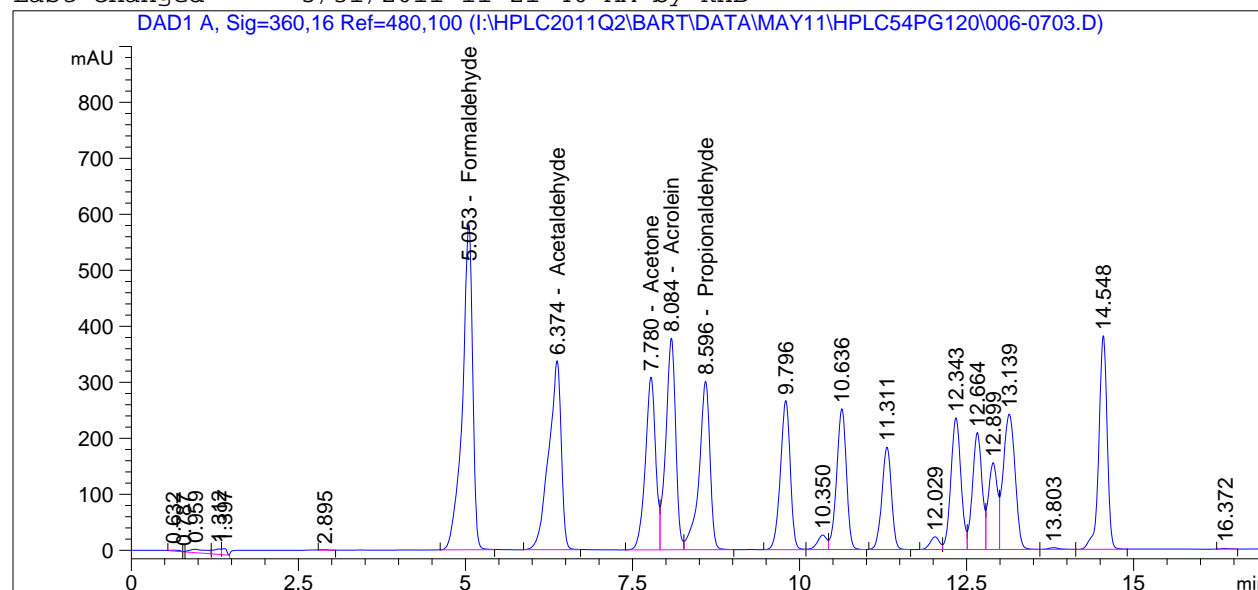
Sample Name: hplc54pg120 #6

```

=====
Acq. Operator   : KHB                      Seq. Line :    7
Acq. Instrument : Bart                    Location  : Vial 6
Injection Date  : 5/27/2011 9:57:44 PM      Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.053	BB	6167.54736	2.42472e-3	14.95457		Formaldehyde
6.374	BB	4389.73730	3.41603e-3	14.99549		Acetaldehyde
7.780	BV	3286.98657	4.53790e-3	14.91603		Acetone
8.084	VV	3878.68140	3.82784e-3	14.84699		Acrolein
8.596	VB	3422.71704	4.41958e-3	15.12697		Propionaldehyde

Totals : 74.84006

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

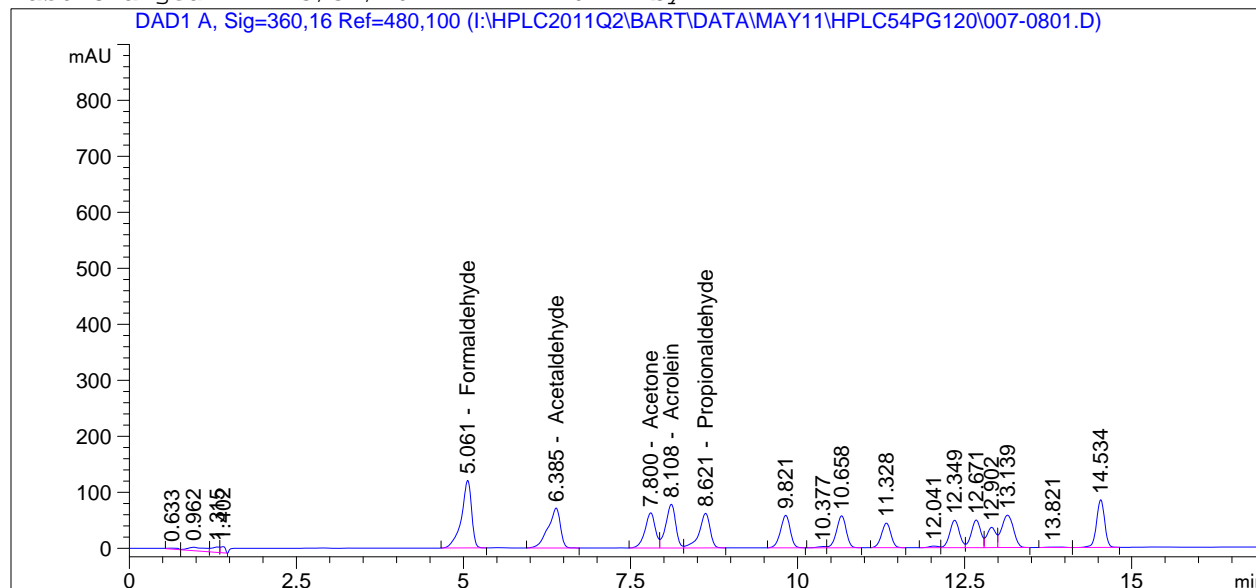
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : KHB                      Seq. Line :    8
Acq. Instrument : Bart                    Location  : Vial 7
Injection Date  : 5/27/2011 10:19:22 PM    Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.061	BB	1265.50842	2.42472e-3	3.06850		Formaldehyde
6.385	BB	910.46594	3.41603e-3	3.11018		Acetaldehyde
7.800	BV	673.00220	4.53790e-3	3.05402		Acetone
8.108	VV	804.38818	3.82784e-3	3.07907		Acrolein
8.621	VB	697.69531	4.41958e-3	3.08352		Propionaldehyde

Totals : 15.39530

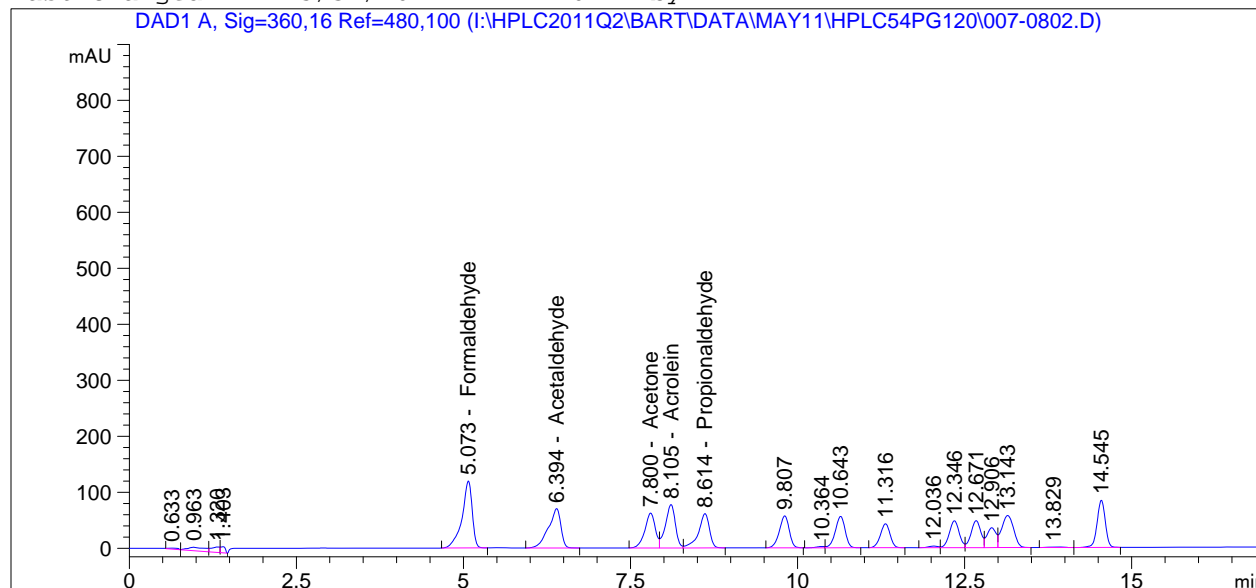
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : KHB                      Seq. Line :    8
Acq. Instrument : Bart                    Location  : Vial 7
Injection Date  : 5/27/2011 10:40:59 PM    Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.073	BB	1264.89819	2.42472e-3	3.06702		Formaldehyde
6.394	BB	909.70721	3.41603e-3	3.10759		Acetaldehyde
7.800	BV	676.37134	4.53790e-3	3.06931		Acetone
8.105	VV	800.74591	3.82784e-3	3.06513		Acrolein
8.614	VB	697.62158	4.41958e-3	3.08319		Propionaldehyde

Totals : 15.39225

1 Warnings or Errors :

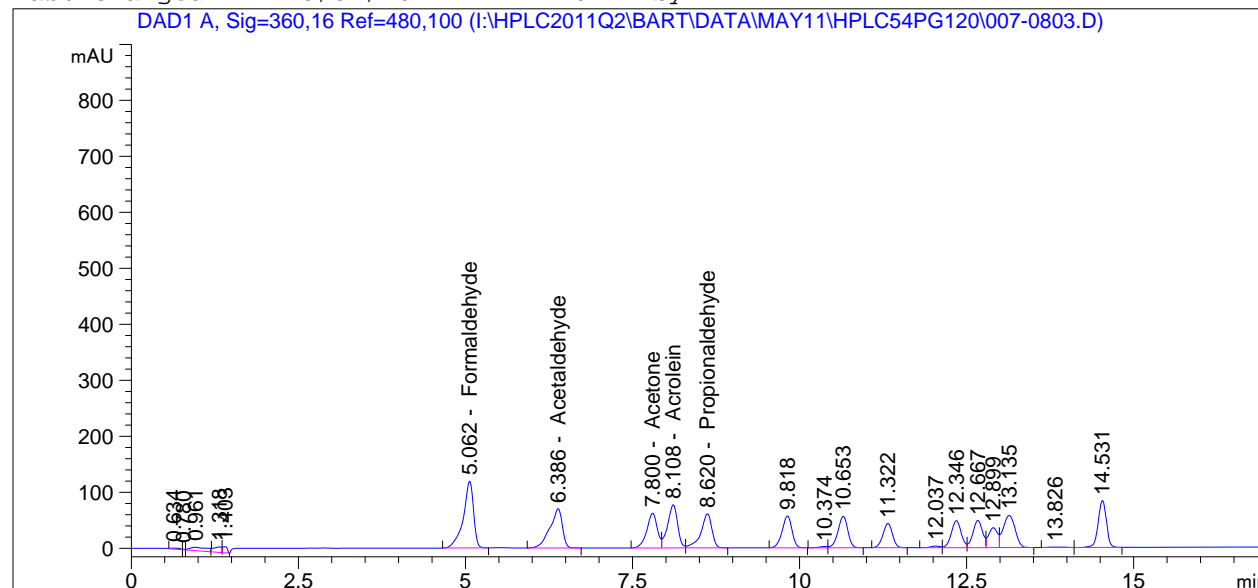
Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

Sample Name: hplc54pg120 #SS

```
=====
Acq. Operator   : KHB                      Seq. Line :    8
Acq. Instrument : Bart                     Location  : Vial 7
Injection Date  : 5/27/2011 11:02:36 PM    Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.062	BB	1263.88220	2.42472e-3	3.06456	--	Formaldehyde
6.386	BB	908.57458	3.41603e-3	3.10372	--	Acetaldehyde
7.800	BV	674.59912	4.53790e-3	3.06127	--	Acetone
8.108	VV	800.84680	3.82784e-3	3.06552	--	Acrolein
8.620	VB	695.49054	4.41958e-3	3.07378	--	Propionaldehyde

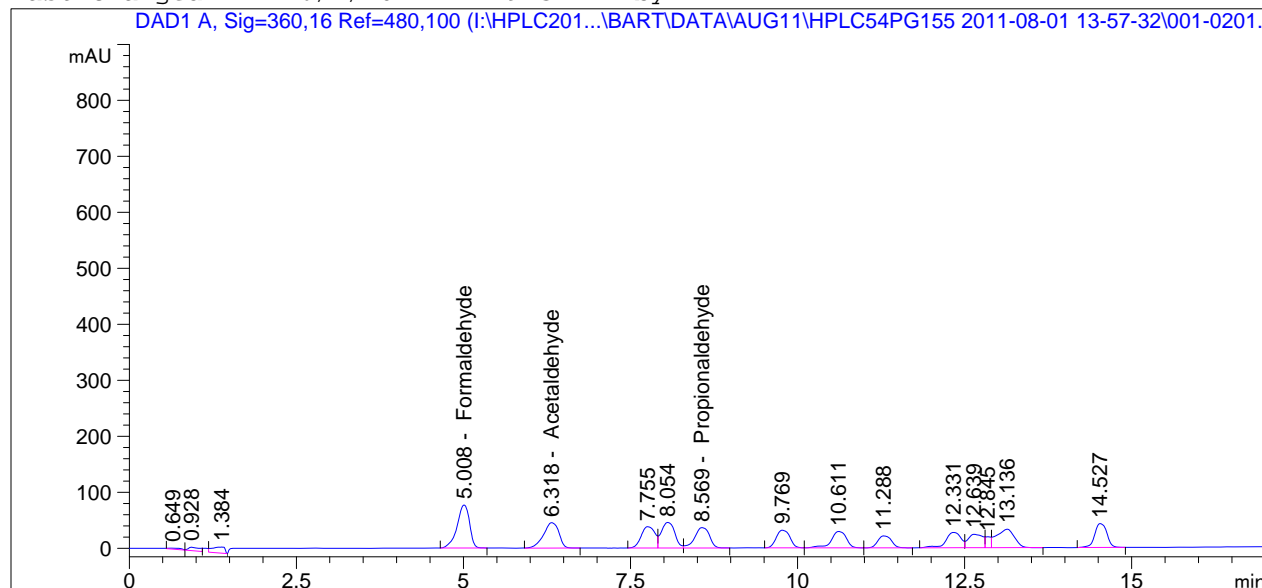
Totals : 15.36884

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    2
Acq. Instrument : Bart                               Location  : Vial 1
Injection Date  : 8/1/2011 2:20:50 PM                 Inj       :    1
                                                    Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.008	BB	994.75671	2.42472e-3	2.41201		Formaldehyde
6.318	BB	725.12817	3.41603e-3	2.47706		Acetaldehyde
8.569	VB	557.34271	4.41958e-3	2.46322		Propionaldehyde

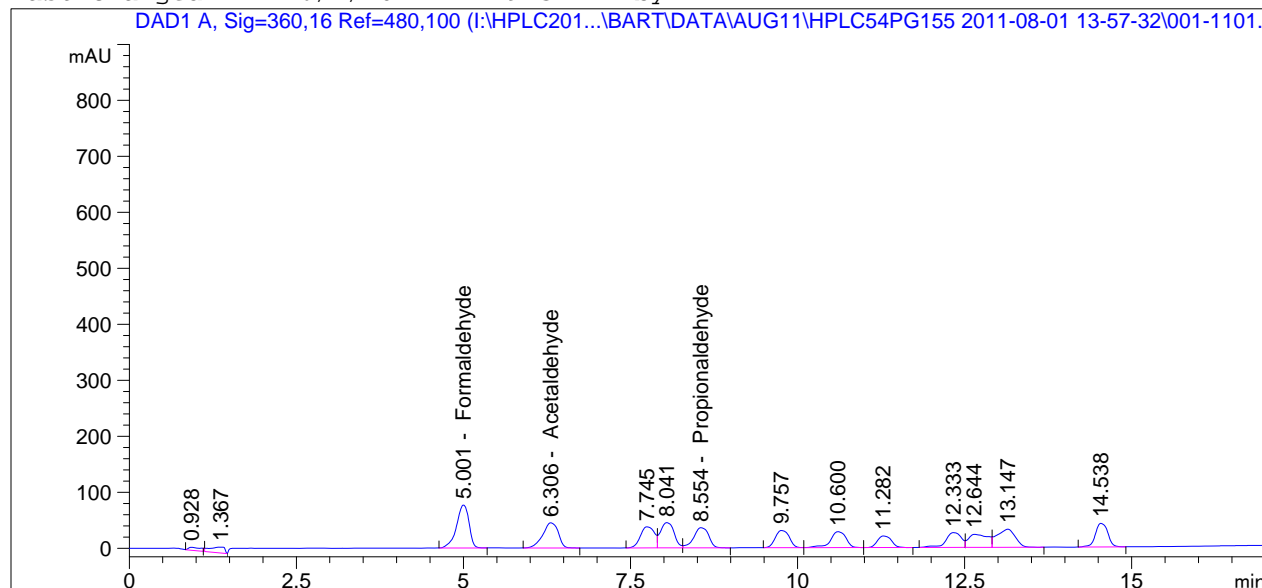
Totals : 7.35229

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   11
Acq. Instrument : Bart                               Location  : Vial 1
Injection Date  : 8/1/2011 5:34:06 PM                 Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.001	BB	997.95258	2.42472e-3	2.41975		Formaldehyde
6.306	BB	726.28284	3.41603e-3	2.48101		Acetaldehyde
8.554	VB	559.24512	4.41958e-3	2.47163		Propionaldehyde

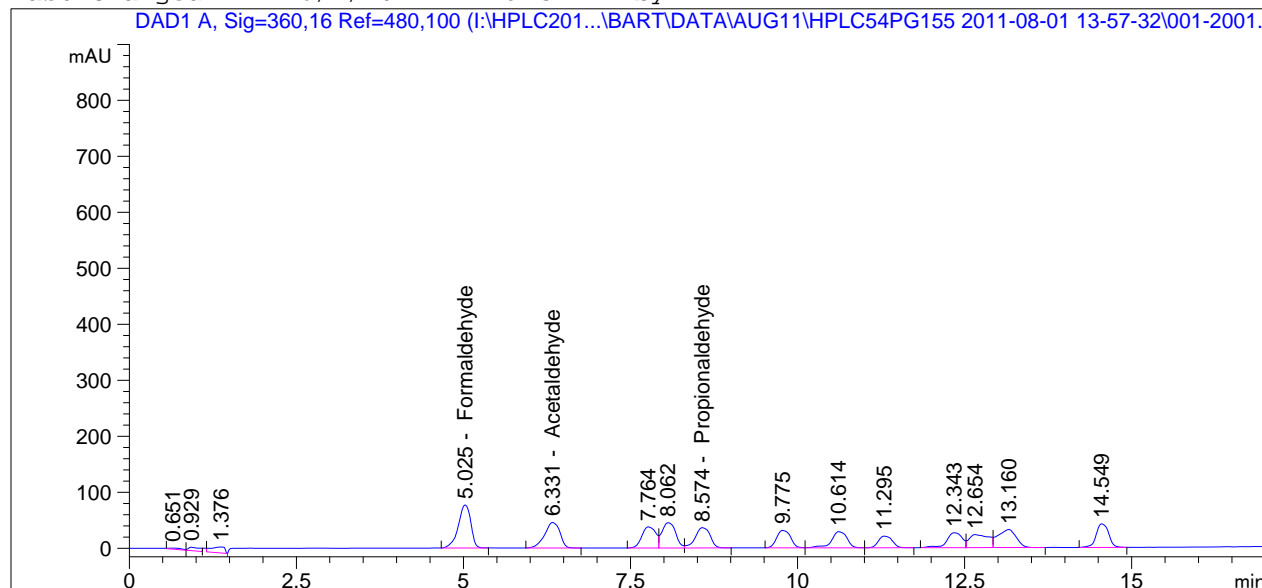
Totals : 7.37239

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :   20
Acq. Instrument : Bart                               Location  : Vial 1
Injection Date  : 8/1/2011 8:47:25 PM                 Inj       :    1
                                                    Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG155 2011-08-01 13-57-32\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.025	BB	999.45746	2.42472e-3	2.42340		Formaldehyde
6.331	BB	725.52216	3.41603e-3	2.47841		Acetaldehyde
8.574	VB	559.50378	4.41958e-3	2.47277		Propionaldehyde

Totals : 7.37458

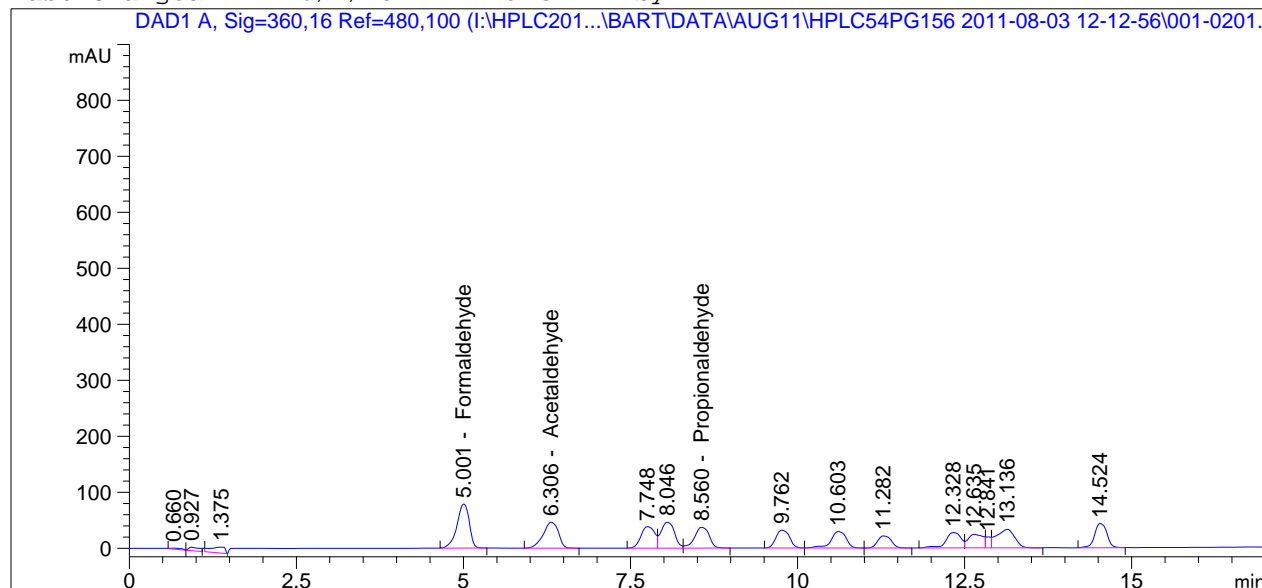
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    2
Acq. Instrument : Bart                               Location  : Vial 1
Injection Date  : 8/3/2011 12:36:07 PM                Inj       :    1
                                                Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG156 2011-08-03 12-12-56\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.001	BB	1008.92792	2.42472e-3	2.44637		Formaldehyde
6.306	BB	735.02783	3.41603e-3	2.51088		Acetaldehyde
8.560	VB	565.69141	4.41958e-3	2.50012		Propionaldehyde

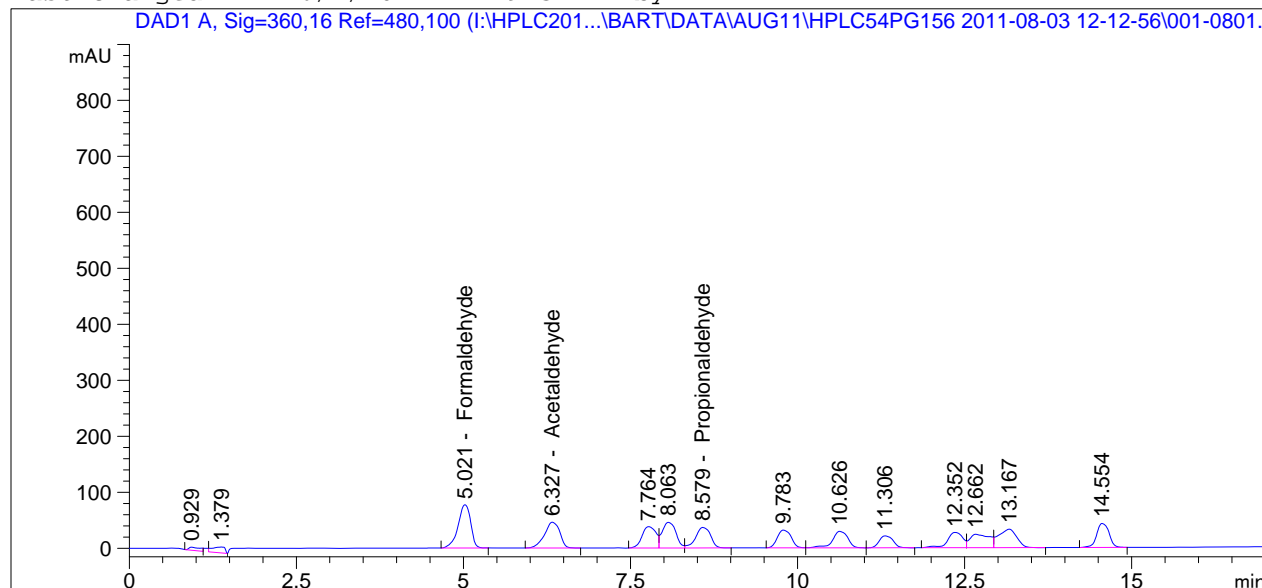
Totals : 7.45737

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    8
Acq. Instrument : Bart                               Location  : Vial 1
Injection Date  : 8/3/2011 2:45:02 PM                 Inj       :    1
                                                    Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG156 2011-08-03 12-12-56\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.021	BB	1011.37964	2.42472e-3	2.45231		Formaldehyde
6.327	BB	735.79803	3.41603e-3	2.51351		Acetaldehyde
8.579	VB	565.89374	4.41958e-3	2.50101		Propionaldehyde

Totals : 7.46684

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

Method Information

Method: H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Modified: 5/27/2011 at 3:16:54 PM

Column: Restek Ultra C18, 4*150mm
Mobile Phase: 59:30:10:1 DIUF H2O:ACN:THF:IPA to 100% ACN on a
gradient
Flow rate: 1.2 mL/min
UV Detection at 360 nm

=====

Agilent 1100/1200 Quaternary Pump 1

=====

Control

Column Flow : 1.200 ml/min
Stoptime : 17.00 min
Posttime : 3.00 min

Solvents

Solvent A : 100.0 % (59:30:10:1 DI:ACN:THF:IPA)
Solvent B : 0.0 % (100% ACN)
Solvent C : Off
Solvent D : Off

PressureLimits

Minimum Pressure : 0 bar
Maximum Pressure : 400 bar

Auxiliary

Maximal Flow Ramp : 100.00 ml/min^2
Primary Channel : Auto
Compressibility : 83×10^{-6} /bar
Minimal Stroke : Auto

Store Parameters

Store Ratio A : Yes
Store Ratio B : Yes
Store Ratio C : Yes
Store Ratio D : Yes
Store Flow : Yes
Store Pressure : Yes

Agilent Contacts Option

=====

Contact 1 : Open
Contact 2 : Open
Contact 3 : Open
Contact 4 : Open

Timetable

Time	Solv.B	Solv.C	Solv.D	Flow	Pressure
0.00	0.0	0.0	0.0		
0.10	0.0	0.0	0.0		
12.00	50.0	0.0	0.0		
17.00	100.0	0.0	0.0		

Agilent Contacts Option Timetable

=====

Timetable is empty

=====

Agilent 1100/1200 Diode Array Detector 1

=====

Signals

Signal	Store	Signal,Bw	Reference,Bw	[nm]
A:	Yes	360 16	480 100	
B:	No	254 16	360 100	
C:	No	218 8	360 100	
D:	No	230 16	360 100	
E:	No	280 16	360 100	

Spectrum

Store Spectra : None

Time

Stoptime : As pump
Posttime : Off

Required Lamps

UV lamp required : Yes
Vis lamp required : Yes

Autobalance

Prerun balancing : Yes
Postrun balancing : No
Margin for negative Absorbance: 100 mAU

Peakwidth : > 0.1 min
Slit : 4 nm

Analog Outputs

Zero offset ana. out. 1: 5 %
Zero offset ana. out. 2: 5 %
Attenuation ana. out. 1: 1000 mAU
Attenuation ana. out. 2: 1000 mAU

Agilent Contacts Option

=====

Contact 1 : Open
Contact 2 : Open
Contact 3 : Open
Contact 4 : Open

=====

Agilent 1100 Autosampler 1

Injection

Injection Mode : Needle Wash
Injector volume : 15.00 µl
Wash Vial : 100
Optimization : Prefetch Sample Vial
8.00 min. after Injection

Auxiliary

Drawspeed : 100 µl/min
Ejectspeed : 1000 µl/min
Draw position : 2.0 mm

Time

Stoptime : As Pump
Posttime : Off

=====

Agilent 1100/1200 Column Thermostat 1

=====

Temperature settings

Left temperature : 30.0°C
Right temperature : Same as left
Enable analysis : When Temp. is within setpoint +/- 0.8°C
Store left temperature : No
Store right temperature: No

Time

Stoptime : As pump
Posttime : Off

Column Switching Valve : Column 1

Timetable is empty

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
1	Vial 8	RB/100% ACN	8315ICR	1	Sample	
2	Vial 1	hplc54pg120 #1	8315ICR	3	Sample	
3	Vial 2	hplc54pg120 #2	8315ICR	3	Sample	
4	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
5	Vial 4	hplc54pg120 #4	8315ICR	3	Sample	
6	Vial 5	hplc54pg120 #5	8315ICR	3	Sample	
7	Vial 6	hplc54pg120 #6	8315ICR	3	Sample	
8	Vial 7	hplc54pg120 #SS	8315ICR	3	Sample	
9	Vial 8	RB/100% ACN	8315ICR	3	Sample	
10	Vial 11	052011-0011U-1-1 05 11-68	8315ICR	1	Sample	
11	Vial 11	052011-0011U-1-1 05 11-68	8315ICR	1	Sample	
12	Vial 12	052011-0011U-1-1 LD 0511-68	8315ICR	1	Sample	
13	Vial 13	052011-0011U-1-2 05 11-68	8315ICR	1	Sample	
14	Vial 14	052011-0011U-1-3 05 11-68	8315ICR	1	Sample	
15	Vial 15	052011-0011S-1-1 05 11-68	8315ICR	1	Sample	
16	Vial 16	052011-0011-FieldSpi ke 0511-68	8315ICR	1	Sample	
17	Vial 17	052011-0011-Sample B L 0511-68	8315ICR	1	Sample	
18	Vial 18	052011-0011-DM/H2O B L 0511-68	8315ICR	1	Sample	
19	Vial 19	MB-1 0511-68	8315ICR	1	Sample	
20	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
21	Vial 20	LCS-1 0511-68	8315ICR	1	Sample	
22	Vial 21	ZRT LCS-1	8315ICR	1	Sample	
23	Vial 22	ZRT LCS-2	8315ICR	1	Sample	

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
24	Vial 23	ZRT LCS-3	8315ICR	1	Sample	
25	Vial 24	ZRT LCS-4	8315ICR	1	Sample	
26	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
27	Vial 9	hplc54pg120 #MDL 1	8315ICR	8	Sample	
28	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
29	Vial 9	hplc54pg120 #MDL 1	8315ICR	8	Sample	
30	Vial 10	hplc54pg120 #MDL 2	8315ICR	8	Sample	
31	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
1	Vial 2	RB/100% ACN	8315ICR	1	Sample	
2	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	
3	Vial 2	RB/100% ACN	8315ICR	1	Sample	
4	Vial 12	Archive MS/R2 0711-25	8315ICR	1	Sample	
5	Vial 13	MS/M0011-Cont 1-R2 0711-41	8315ICR	1	Sample	
6	Vial 14	MSD/M0011-Cont 1-R2 0711-41	8315ICR	1	Sample	
7	Vial 15	MS/EXM-DCU-R2 0611-122	8315ICR	1	Sample	
8	Vial 16	MSD/EXM-DCU-R2 0611-122	8315ICR	1	Sample	
9	Vial 17	MB-2 0611-122	8315ICR	1	Sample	
10	Vial 18	LCS-2 0611-122	8315ICR	1	Sample	
11	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	
12	Vial 21	M0011 T1R0 Recovery Spike 0711-81	8315ICR	1	Sample	
13	Vial 22	M0011 T1R1 0711-81	8315ICR	1	Sample	
14	Vial 22	M0011 T1R1 0711-81	8315ICR	1	Sample	
15	Vial 23	LD/M0011 T1R1 0711-81	8315ICR	1	Sample	
16	Vial 24	M0011 T1R2 0711-81	8315ICR	1	Sample	
17	Vial 25	M0011 T1R3 0711-81	8315ICR	1	Sample	
18	Vial 26	M0011 T1R4 Matrix Spike 0711-81	8315ICR	1	Sample	
19	Vial 27	M0011 Blank 0711-81	8315ICR	1	Sample	
20	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
====	=====	=====	=====	=====	=====	=====
1	Vial 2	RB/100% ACN	8315ICR	1	Sample	
2	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	
3	Vial 2	RB/100% ACN	8315ICR	1	Sample	
4	Vial 31	MS/M0011 T1R2 0711-80	8315ICR	1	Sample	
5	Vial 32	MSD/M0011 T1R2 0711-80	8315ICR	1	Sample	
6	Vial 33	MB-1 0711-80	8315ICR	1	Sample	
7	Vial 34	LCS-1 0711-80	8315ICR	1	Sample	
8	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	

**This Is The Last Page
Of This Report.**

Pace Analytical Services, Inc.

1700 Elm St. Suite 200
Minneapolis, MN 55414

FHR - ICR

Project # 1108-200
PO # 1108-200

Analytical Report (0711-81)

EPA Method 18 Bags

1,3-Butadiene, Acrolein, Acetone, Pentane, Dichloromethane,
Hexane, Benzene, Trichloroethene, Toluene,
1,2-Dibromoethane, Tetrachloroethene,
Carbon disulfide
Ethane, Methane

EPA Method 18 Adsorbents

2,2,4-Trimethylpentane, 2-Nitropropane, Acetonitrile, Acrylonitrile,
Chlorobenzene, Cumene, Ethylbenzene, Methyl isobutyl ketone,
Methyl t-butyl ether, m-Xylene, Nitrobenzene, o-Xylene, p-Xylene, Styrene

EPA Method 308

Methanol



Enthalpy Analytical, Inc.

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
800-1 Capitola Drive Durham, NC 27713

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 1,053 pages.



QA Review Performed by: Michael Steven Schapira

Report Issued: 9/9/11



Summary of Results

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs

Compound	Sample ID / Adjusted Concentration (ppm)		
	<i>T1R1 M18 Bag</i>	<i>T1R2 M18 Bag</i>	<i>T1R3 M18 Bag</i>
1,3-Butadiene *	0.282 ND	0.282 ND	0.282 ND
Acrolein	0.277 ND	0.277 ND	0.277 ND
Acetone	0.356 ND	0.356 ND	0.638 J
Pentane #	0.257 ND	0.257 ND	0.257 ND
Methylene chloride	1.01 ND	1.01 ND	1.32 J
Hexane	0.231 ND	0.231 ND	0.300 J
Benzene	0.236 ND	0.236 ND	0.236 ND
Trichloroethene	0.346 ND	0.346 ND	0.346 ND
Toluene	0.229 ND	0.229 ND	0.229 ND
1,2-Dibromoethane #	0.257 ND	0.257 ND	0.257 ND
Tetrachloroethene #	0.291 ND	0.291 ND	0.291 ND
<p>* Recovery % failed criteria and results are not adjusted.</p> <p># These compounds were not spiked and results are not adjusted.</p>			

Company	Pace Analytical Services
Analyst	STG
Parameters	EPA Method 18 Bags FPD

Client #	1108-200
Job #	0711-81
# Samples	3 Bags

Compound	Sample ID / Sample Concentration (ppm)		
	<i>T1R1 M18 bag</i>	<i>T1R2 M18 bag</i>	<i>T1R3 M18 bag</i>
Carbon disulfide	0.169 J	0.0430 ND	0.0430 ND
	<i>Blank</i>		
Carbon disulfide	0.0430 ND		

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Cond FID

Client #	1108-200
Job #	0711-81
# Samples	3 Bags Condensates, 1 Blank

Compound	Sample ID / Catch Weight (ug)		
	<i>T1R1 Bag Dry Imp</i>	<i>T1R2 Bag Dry Imp</i>	<i>T1R3 Bag Dry Imp</i>
1,3-Butadiene	12.9 ND	12.9 ND	12.9 ND
Pentane	20.2 ND	20.2 ND	20.2 ND
Acrolein	12.8 ND	12.8 ND	12.8 ND
Acetone	17.0 J	20.2 J	21.0 J
Dichloromethane	23.2 J	22.3 ND	22.3 ND
Hexane	9.24 ND	9.24 ND	9.24 ND
Benzene	11.0 ND	11.0 ND	11.0 ND
Trichloroethylene	12.5 ND	12.5 ND	12.5 ND
Toluene	21.6 ND	21.6 ND	21.6 ND
Tetrachloroethylene	59.4 ND	59.4 ND	59.4 ND
1,2-Dibromoethane	29.9 ND	29.9 ND	29.9 ND
	<i>T1R0 Bag Dry Imp</i>		
1,3-Butadiene	12.9 ND		
Pentane	20.2 ND		
Acrolein	12.8 ND		
Acetone	20.5 J		
Dichloromethane	41.8 J		
Hexane	9.24 ND		
Benzene	11.0 ND		
Trichloroethylene	12.5 ND		
Toluene	21.6 ND		
Tetrachloroethylene	59.4 ND		
1,2-Dibromoethane	29.9 ND		

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bag Cond FPD

Client #	1108-200
Job #	0711-81
# Samples	3 Bags Condensates, 1 Blank

Compound	Sample ID / Catch Weight (ug)		
	<i>T1R1 Bag Dry Imp</i>	<i>T1R2 Bag Dry Imp</i>	<i>T1R3 Bag Dry Imp</i>
Carbon disulfide	4.28 ND	4.28 ND	4.28 ND
	<i>T1R0 Bag Dry Imp</i>		
Carbon disulfide	4.28 ND		

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags

Client #	1108-200
Job #	0711-81
# Samples	3 Runs

Compound	Sample ID / Adjusted Concentration (ppm)		
	<i>T1R1 M18 Bag</i>	<i>T1R2 M18 Bag</i>	<i>T1R3 M18 Bag</i>
Methane	0.922 J	0.651 J	0.870 J
Ethane	0.424 ND	0.424 ND	0.424 ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorb.

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blank

Compound	Sample ID / Adjusted Catch Weight (ug)		
	FHR - ICR		
	T1 R1	T1 R2	T1 R3
Acetonitrile #	6.53 ND	6.53 ND	6.53 ND
Acrylonitrile	5.38 ND	5.38 ND	5.38 ND
MTBE	1.11 ND	1.11 ND	1.11 ND
2-Nitropropane	10.3 ND	10.3 ND	10.3 ND
Isooctane	0.949 ND	0.949 ND	0.949 ND
MIBK	1.17 ND	1.17 ND	1.17 ND
Chlorobenzene	1.53 ND	1.53 ND	1.53 ND
Ethylbenzene	1.13 ND	1.13 ND	1.13 ND
m/p-Xylene	1.10 ND	1.10 ND	1.10 ND
Styrene	1.22 ND	1.22 ND	1.22 ND
o-Xylene	1.14 ND	1.14 ND	1.14 ND
Cumene	1.11 ND	1.11 ND	1.11 ND
Nitrobenzene	1.68 ND	1.68 ND	1.68 ND
	M18 T1R0 UnSpkd	M18 T1R0 UnSpkd	
	Cond. FB CS2 #	Cond. FB Raff. #	
Acetonitrile	0.972 ND	6.53 ND	
Acrylonitrile	0.972 ND	6.53 ND	
MTBE	0.913 ND		
2-Nitropropane	1.20 ND	8.05 ND	
Isooctane	0.852 ND		
MIBK	0.985 ND		
Chlorobenzene	1.41 ND		
Ethylbenzene	1.07 ND		
m/p-Xylene	1.06 ND		
Styrene	1.12 ND		
o-Xylene	1.09 ND		
Cumene	1.07 ND		
Nitrobenzene	1.49 ND		
	# Results Not Adjusted.		

Company	Pace Analytical
Analyst	CJT / KLM
Parameters	EPA Method 308

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 2 Blanks

Compound	Sample ID / Catch Weight (ug)		
	M308 T1R1	M308 T1R2	M308 T1R3
Methanol	33.2 ND	33.2 ND	33.2 ND
	M308 T1R0 WC FB	M308 T1R0 SG FB	
Methanol	33.2 ND	0.805 ND	

Results

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.282 (ppm)
LOQ 2.57 (ppm)
Compound 1,3-Butadiene

Lower Curve Limit 2.57 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.282	0.282	0.282	0.0	0.282	1	100	0.282	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.282	0.282	0.282	0.0	0.282	1	100	0.282	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.282	0.282	0.282	0.0	0.282	1	100	0.282	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.282	0.282	0.282	0.0	0.282	1	100	0.282	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	2.61	2.62	2.62	0.2	3.91	3.89	3.82	1.3	3.88	1	100	3.88	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	2.62	2.62	2.62	0.1	96.9	96.5	96.8	0.2	96.7	1	100	96.7	
														Spike Amount (ppm)		103	
														Spike Recovery (%)		94.1%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.283 (ppm)
LOQ 2.57 (ppm)
Compound Acrolein

Lower Curve Limit 2.57 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.283	0.283	0.283	0.0	0.283	1	102	0.277	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.283	0.283	0.283	0.0	0.283	1	102	0.277	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.283	0.283	0.283	0.0	0.283	1	102	0.277	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.283	0.283	0.283	0.0	0.283	1	100	0.283	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	3.58	3.59	3.59	0.2	6.38	6.69	6.14	4.5	6.40	1	100	6.40	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	3.59	3.59	3.59	0.0	92.4	92.3	92.4	0.0	92.4	1	100	92.4	
														Spike Amount (ppm)		103	
														Spike Recovery (%)		89.8%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.415 (ppm)
LOQ 4.99 (ppm)
Compound Acetone

Lower Curve Limit 4.99 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.415	0.415	0.415	0.0	0.415	1	117	0.356	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.415	0.415	0.415	0.0	0.415	1	117	0.356	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	3.71	3.71	NA	NA	1.28	0.539	0.415	71.8	0.744	1	117	0.638	J
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.415	0.415	0.415	0.0	0.415	1	100	0.415	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	3.69	3.70	3.70	0.2	7.29	7.45	6.94	3.9	7.23	1	100	7.23	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	3.70	3.70	3.70	0.0	93.4	93.6	93.3	0.2	93.4	1	100	93.4	
														Spike Amount (ppm)		103	
														Spike Recovery (%)		90.9%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.257 (ppm)
LOQ 2.57 (ppm)
Compound Pentane

Lower Curve Limit 2.57 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	4.19	4.19	4.19	0.0	97.6	97.6	97.8	0.2	97.7	1	97.7	
													Spike Amount (ppm)	103		
													Spike Recovery (%)	95.0%		

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.958 (ppm)
LOQ 2.57 (ppm)
Compound Methylene chloride

Lower Curve Limit 2.57 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.958	0.958	0.958	0.0	0.96	1	94.9	1.01	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.958	0.958	0.958	0.0	0.958	1	94.9	1.01	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	4.51	4.51	NA	NA	1.67	1.13	0.958	33.5	1.253	1	94.9	1.32	J
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.958	0.958	0.958	0.0	0.958	1	100	0.958	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	4.49	4.50	4.50	0.2	6.02	5.70	6.10	4.1	5.94	1	100	5.94	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	4.51	4.51	4.50	0.0	96.1	96.6	96.7	0.3	96.4	1	100	96.4	
														Spike Amount (ppm)		103	
														Spike Recovery (%)		93.8%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.259 (ppm)
LOQ 2.57 (ppm)
Compound Hexane

Lower Curve Limit 2.57 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.259	0.259	0.259	0.0	0.259	1	112	0.231	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.259	0.259	0.259	0.0	0.259	1	112	0.231	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	5.79	NA	NA	NA	0.491	0.259	0.259	45.9	0.336	1	112	0.300	J
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.259	0.259	0.259	0.0	0.259	1	100	0.259	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	5.77	5.78	5.78	0.1	7.13	7.06	6.87	2.2	7.02	1	100	7.02	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	5.78	5.78	5.78	0.0	98.2	98.4	97.6	0.5	98.1	1	100	98.1	
														Spike Amount (ppm)		103	
														Spike Recovery (%)		95.4%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.256 (ppm)
LOQ 2.56 (ppm)
Compound Benzene

Lower Curve Limit 2.56 (ppm)
Upper Curve Limit 256 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	109	0.236	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	109	0.236	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	109	0.236	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	100	0.256	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	6.49	6.49	6.49	0.1	6.93	6.90	6.78	1.3	6.87	1	100	6.87	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	6.50	6.50	6.50	0.0	97.2	97.1	97.4	0.2	97.2	1	100	97.2	
														Spike Amount (ppm)		102	
														Spike Recovery (%)		94.9%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.401 (ppm)
LOQ 4.97 (ppm)
Compound Trichloroethene

Lower Curve Limit 4.97 (ppm)
Upper Curve Limit 256 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.401	0.401	0.401	0.0	0.401	1	116	0.346	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.401	0.401	0.401	0.0	0.401	1	116	0.346	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.401	0.401	0.401	0.0	0.401	1	116	0.346	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.401	0.401	0.401	0.0	0.401	1	100	0.401	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	6.88	6.89	6.89	0.0	7.55	7.31	7.24	2.5	7.36	1	100	7.36	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	6.89	6.89	6.89	0.0	93.9	93.8	93.9	0.1	93.9	1	100	93.9	
																Spike Amount (ppm)	102
																Spike Recovery (%)	91.7%

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.256 (ppm)
LOQ 4.97 (ppm)
Compound Toluene

Lower Curve Limit 4.97 (ppm)
Upper Curve Limit 256 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	112	0.229	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	112	0.229	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	112	0.229	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.256	0.256	0.256	0.0	0.256	1	100	0.256	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	7.56	7.56	7.56	0.0	7.33	7.07	6.94	3.0	7.11	1	100	7.11	
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	7.57	7.56	7.56	0.0	93.1	92.9	93.1	0.2	93.0	1	100	93.0	
														Spike Amount (ppm)		102	
														Spike Recovery (%)		90.8%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.257 (ppm)
LOQ 4.99 (ppm)
Compound 1,2-Dibromoethane

Lower Curve Limit 4.99 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	0.257	ND
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	7.84	7.84	7.84	0.0	90.7	90.4	90.5	0.2	90.6	1	90.6	
													Spike Amount (ppm)	103		
													Spike Recovery (%)	88.1%		

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.291 (ppm)
LOQ 4.99 (ppm)
Compound Tetrachloroethene

Lower Curve Limit 4.99 (ppm)
Upper Curve Limit 257 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.291	0.291	0.291	0.0	0.291	1	0.291	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.291	0.291	0.291	0.0	0.291	1	0.291	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.291	0.291	0.291	0.0	0.291	1	0.291	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.291	0.291	0.291	0.0	0.291	1	0.291	ND
T1R1 M18 Bag S&R	018B0101.D	018B0102.D	018B0103.D	GC114P176R_ICR.M	NA	NA	NA	NA	0.291	0.291	0.291	0.0	0.291	1	0.291	ND
gc119p176 #I4 LCS	026B1401.D	026B1402.D	026B1403.D	GC114P176R_ICR.M	7.98	7.98	7.98	0.0	93.6	93.4	93.7	0.2	93.5	1	93.5	
													Spike Amount (ppm)	103		
													Spike Recovery (%)	91.0%		

Company	Pace Analytical Services
Analyst	MGM
Parameters	Bag Spike & Recovery

Client #	1108-200
Job #	0711-81
Unspiked Sample ID	T1R1 M18 Bag

$$\% \text{ Recovery} = (T - U) / S \times 100$$

T = after spike concentration

U = before spike concentration

S = theoretical spike concentration

What was the conc of the bag before spiking?

U' (before spiking)

What was added to the bag?

Gas Spike #1

Volume Added (mL)

Total Vol (mL) vaporized
Total Vol (mL) added as gas
Other volume (mL) Added

1,3-Butadiene			
MW	54.09		
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	
0.00	0.00	0.00	
Avg ppm	0.00		
Conc. ppm	Pbar (inHg)	T (F)	
508	29.79	70.5	
60	Total ug	67.9	
0.0			
60			
80			

Acrolein			
MW	56.06		
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	
0.00	0.00	0.00	
Avg ppm	0.00		
Conc. ppm	Pbar (inHg)	T (F)	
501	29.79	70.5	
60	Total ug	69.4	
0.0			
60			
80			

Acetone			
MW	58.08		
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	
0.00	0.00	0.00	
Avg ppm	0.00		
Conc. ppm	Pbar (inHg)	T (F)	
495	29.79	70.5	
60	Total ug	71.0	
0.0			
60			
80			

What volume was in the bag before spiking?

Wedge Volume	4.607	(L)	Sampled	7/26/11 9:00 AM	Hours	27:04:36
			Analyzed	7/27/11 12:04 PM	Delta	
			Spiked	7/27/11 4:15 PM	Hours	43:39:33
			Spike Analyzed	7/29/11 11:54 AM	Delta	
Total Vol. After Spiking	4,747	(mL)	Spike hold equal to or greater than original hold		YES	

Ending Volume in Bag (mL)
Original volume in the bag (mL)
Total volume added (mL)
Dilution Factor caused by addition
Dilution Adjusted Base Conc (ppm) "U"

Theoretical Spike Conc (ppm) "S"

4,747
4,607
140
1.03
0.00

4,607
140
1.03
0.00

4,607
140
1.03
0.00

What was the conc of the bag after spiking?

Final Concentration (ppm) "T"

RECOVERY %

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
3.91	3.89	3.82
Avg ppm	3.88	
60.9	%	

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
6.38	6.69	6.14
Avg ppm	6.40	
102	%	

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
7.29	7.45	6.94
Avg ppm	7.23	
117	%	

What was the conc of the bag before spiking?

U' (before spiking)

What was added to the bag?

Gas Spike #1

Volume Added (mL)

Total Vol (mL) vaporized
Total Vol (mL) added as gas
Other volume (mL) Added

Methylene chloride			
MW	84.93		
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	
0.00	0.00	0.00	
Avg ppm	0.00		
Conc. ppm	Pbar (inHg)	T (F)	
500	29.79	70.5	
60	Total ug	105	
0.0			
60			
80			

Hexane			
MW	86.18		
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	
0.00	0.00	0.00	
Avg ppm	0.000		
Conc. ppm	Pbar (inHg)	T (F)	
501	29.79	70.5	
60	Total ug	107	
0.0			
60			
80			

Benzene			
MW	78.11		
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	
0.00	0.00	0.00	
Avg ppm	0.00		
Conc. ppm	Pbar (inHg)	T (F)	
505	29.79	70.5	
60	Total ug	97.5	
0.0			
60			
80			

Ending Volume in Bag (mL)
Original volume in the bag (mL)
Total volume added (mL)
Dilution Factor caused by addition
Dilution Adjusted Base Conc (ppm) "U"

Theoretical Spike Conc (ppm) "S"

4,607
140
1.03
0.00

4,607
140
1.03
0.00

4,607
140
1.03
0.00

What was the conc of the bag after spiking?

Final Concentration (ppm) "T"

RECOVERY %

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
6.02	5.70	6.10
Avg ppm	5.94	
94.9	%	

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
7.13	7.06	6.87
Avg ppm	7.02	
112	%	

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
6.93	6.90	6.78
Avg ppm	6.87	
109	%	

Company	Pace Analytical Services
Analyst	MGM
Parameters	Bag Spike & Recovery

Client #	1108-200
Job #	0711-81
Unspiked Sample ID	T1R1 M18 Bag

$$\% \text{ Recovery} = (T - U) / S \times 100$$

T = after spike concentration

U = before spike concentration

S = theoretical spike concentration

What was the conc of the bag before spiking?	Trichloroethene			Toluene		
	MW	131.39		MW	92.14	
	Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
	0.00	0.00	0.00	0.00	0.00	0.00
U' (before spiking)	Avg ppm		0.0	Avg ppm		0.00
What was added to the bag?	Conc. ppm	Pbar (inHg)	T (F)	Conc. ppm	Pbar (inHg)	T (F)
	507	29.79	70.5	508	29.79	70.5
	Total ug		165	Total ug		116
	Volume Added (mL)		60	Volume Added (mL)		60
Total Vol (mL) vaporized	0.0			0.0		
Total Vol (mL) added as gas	60			60		
Other volume (mL) Added	80			80		

What volume was in the bag before spiking?

Wedge Volume	4.607	(L)	Sampled	7/26/11 9:00 AM	Hours	
			Analyzed	7/27/11 12:04 PM	Delta	27:04:36
			Spiked	7/27/11 4:15 PM	Hours	
					Delta	43:39:33
Total Vol. After Spiking	4,747	(mL)	Spike Analyzed	7/29/11 11:54 AM		
			Spike hold equal to or greater than original hold			YES

Ending Volume in Bag (mL)	4,747		
Original volume in the bag (mL)	4,607		4,607
Total volume added (mL)	140		140
Dilution Factor caused by addition	1.03		1.03
Dilution Adjusted Base Conc (ppm) "U"	0.00		0.00
Theoretical Spike Conc (ppm) "S"	6.35		6.36

What was the conc of the bag after spiking?	Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)	Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
	7.55	7.31	7.24	7.33	7.07	6.94
	Avg ppm		7.36	Avg ppm		7.11
	Final Concentration (ppm) "T"			Final Concentration (ppm) "T"		
RECOVERY %	116		%	112		%

Company	Pace Analytical Services
Analyst	STG
Parameters	EPA Method 18 Bags FPD

Client #	1108-200
Job #	0711-81
# Samples	3 Runs

MDL 0.0430 (ppm)
LOQ 0.626 (ppm)
Compound Carbon disulfide

Lower Curve Limit 0.626 (ppm)
Upper Curve Limit 7.80 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Sample Conc (ppm)	Qual
T1R1 M18 bag	007B0601.D	007B0602.D	007B0603.D	GC125P031_POST_CS2.M	5.51	5.53	5.52	0.3	0.189	0.177	0.142	15.9	0.169	1	0.169	J
T1R2 M18 bag	007B0701.D	007B0702.D	007B0703.D	GC125P031_POST_CS2.M	NA	NA	NA	NA	0.0430	0.0430	0.0430	0.0	0.0430	1	0.0430	ND
T1R3 M18 bag	006B0801.D	006B0802.D	006B0803.D	GC125P031_POST_CS2.M	NA	NA	NA	NA	0.0430	0.0430	0.0430	0.0	0.0430	1	0.0430	ND
Blank	007B0201.D	007B0202.D	007B0203.D	GC125P031_POST_CS2.M	NA	NA	NA	NA	0.0430	0.0430	0.0430	0.0	0.0430	1	0.0430	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.301 (ug/mL)
LOQ 2.20 (ug/mL)
Compound 1,3-Butadiene

Lower Curve Limit 2.20 (ug/mL)
Upper Curve Limit 183 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.301	0.301	0.301	0.0	0.301	1	42.8	12.9	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.301	0.301	0.301	0.0	0.301	1	42.8	12.9	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.301	0.301	0.301	0.0	0.301	1	42.8	12.9	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.301	0.301	0.301	0.0	0.301	1	42.8	12.9	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	4.46	4.46	4.46	0.0	11.0	10.9	11.0	0.2	11.0	1	2.14	23.5	
													Spike Amount (ug)				
													Native Amount (ug)				
													Spike Recovery (%)				
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.301	0.301	0.301	0.0	0.301	1	1.00	0.301	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.301	0.301	0.301	0.0	0.301	1	1.00	0.301	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.473 (ug/mL)
LOQ 1.25 (ug/mL)
Compound Pentane

Lower Curve Limit 1.25 (ug/mL)
Upper Curve Limit 104 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.473	0.473	0.473	0.0	0.473	1	42.8	20.2	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.473	0.473	0.473	0.0	0.473	1	42.8	20.2	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.473	0.473	0.473	0.0	0.473	1	42.8	20.2	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.473	0.473	0.473	0.0	0.473	1	42.8	20.2	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	5.47	5.47	5.47	0.0	5.93	6.14	5.95	2.3	6.01	1	2.14	12.9	
														Spike Amount (ug)		12.5	
														Native Amount (ug)		0.0	
														Spike Recovery (%)		103%	
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.473	0.473	0.473	0.0	0.473	1	1.00	0.473	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.473	0.473	0.473	0.0	0.473	1	1.00	0.473	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.300 (ug/mL)
LOQ 1.65 (ug/mL)
Compound Acrolein

Lower Curve Limit 1.65 (ug/mL)
Upper Curve Limit 138 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.300	0.300	0.300	0.0	0.300	1	42.8	12.8	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.300	0.300	0.300	0.0	0.300	1	42.8	12.8	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.300	0.300	0.300	0.0	0.300	1	42.8	12.8	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.300	0.300	0.300	0.0	0.300	1	42.8	12.8	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	6.00	6.00	6.00	0.0	8.97	8.87	8.98	0.8	8.94	1	2.14	19.1	
													Spike Amount (ug)	16.5			
													Native Amount (ug)	0.00			
													Spike Recovery (%)	116%			
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.300	0.300	0.300	0.0	0.300	1	1.00	0.300	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.300	0.300	0.300	0.0	0.300	1	1.00	0.300	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.178 (ug/mL)
LOQ 1.58 (ug/mL)
Compound Acetone

Lower Curve Limit 1.58 (ug/mL)
Upper Curve Limit 132 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	6.16	6.16	6.16	0.0	0.394	0.399	0.398	0.7	0.397	1	42.8	17.0	J
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	6.16	6.16	6.16	0.0	0.467	0.475	0.472	0.9	0.471	1	42.8	20.2	J
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	6.16	6.16	6.16	0.0	0.497	0.500	0.475	3.1	0.491	1	42.8	21.0	J
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	6.16	6.16	6.15	0.1	0.503	0.481	0.450	5.9	0.478	1	42.8	20.5	J
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	6.16	6.16	6.16	0.0	6.78	6.74	6.80	0.4	6.77	1	2.14	14.5	
														Spike Amount (ug)		15.8	
														Native Amount (ug)		0.842	
														Spike Recovery (%)		86.4%	
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.178	0.178	0.178	0.0	0.178	1	1.00	0.178	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.178	0.178	0.178	0.0	0.178	1	1.00	0.178	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.522 (ug/mL)
LOQ 2.64 (ug/mL)
Compound Dichloromethane

Lower Curve Limit 2.64 (ug/mL)
Upper Curve Limit 221 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	6.59	NA	0.522	0.522	0.580	7.1	0.541	1	42.8	23.2	J
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.522	0.522	0.522	0.0	0.522	1	42.8	22.3	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.522	0.522	0.522	0.0	0.522	1	42.8	22.3	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	6.59	6.59	6.59	0.0	0.986	1.00	0.946	3.2	0.977	1	42.8	41.8	J
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	6.59	6.59	6.59	0.0	13.9	13.9	14.0	0.4	13.9	1	2.14	29.8	
														Spike Amount (ug)		26.5	
														Native Amount (ug)		1.15	
														Spike Recovery (%)		108%	
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.522	0.522	0.522	0.0	0.522	1	1.00	0.522	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.522	0.522	0.522	0.0	0.522	1	1.00	0.522	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.216 (ug/mL)
LOQ 1.31 (ug/mL)
Compound Hexane

Lower Curve Limit 1.31 (ug/mL)
Upper Curve Limit 109 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.216	0.216	0.216	0.0	0.216	1	42.8	9.24	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.216	0.216	0.216	0.0	0.216	1	42.8	9.24	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.216	0.216	0.216	0.0	0.216	1	42.8	9.24	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.216	0.216	0.216	0.0	0.216	1	42.8	9.24	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	6.95	6.95	6.95	0.0	3.93	4.33	4.13	4.8	4.13	1	2.14	8.84	
													Spike Amount (ug)	13.1			
													Native Amount (ug)	0.00			
													Spike Recovery (%)	67.4%			
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.216	0.216	0.216	0.0	0.216	1	1.00	0.216	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.216	0.216	0.216	0.0	0.216	1	1.00	0.216	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.257 (ug/mL)
LOQ 1.74 (ug/mL)
Compound Benzene

Lower Curve Limit 1.74 (ug/mL)
Upper Curve Limit 146 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	42.8	11.0	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	42.8	11.0	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	42.8	11.0	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	42.8	11.0	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	8.41	8.41	8.41	0.0	8.80	8.81	8.86	0.5	8.82	1	2.14	18.9	
													Spike Amount (ug)				
													Native Amount (ug)				
													Spike Recovery (%)				
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	1.00	0.257	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.257	0.257	0.257	0.0	0.257	1	1.00	0.257	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.292 (ug/mL)
LOQ 2.92 (ug/mL)
Compound Trichloroethylene

Lower Curve Limit 2.92 (ug/mL)
Upper Curve Limit 244 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.292	0.292	0.292	0.0	0.292	1	42.8	12.5	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.292	0.292	0.292	0.0	0.292	1	42.8	12.5	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.292	0.292	0.292	0.0	0.292	1	42.8	12.5	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.292	0.292	0.292	0.0	0.292	1	42.8	12.5	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	8.88	8.88	8.88	0.0	14.2	14.2	14.3	0.5	14.2	1	2.14	30.5	
													Spike Amount (ug)				
													Native Amount (ug)				
													Spike Recovery (%)				
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.292	0.292	0.292	0.0	0.292	1	1.00	0.292	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.292	0.292	0.292	0.0	0.292	1	1.00	0.292	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.504 (ug/mL)
LOQ 1.72 (ug/mL)
Compound Toluene

Lower Curve Limit 1.72 (ug/mL)
Upper Curve Limit 144 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.504	0.504	0.504	0.0	0.504	1	42.8	21.6	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.504	0.504	0.504	0.0	0.504	1	42.8	21.6	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.504	0.504	0.504	0.0	0.504	1	42.8	21.6	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.504	0.504	0.504	0.0	0.504	1	42.8	21.6	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	9.86	9.86	9.86	0.0	7.91	7.94	7.97	0.4	7.94	1	2.14	17.0	
														Spike Amount (ug)		17.3	
														Native Amount (ug)		0.00	
														Spike Recovery (%)		98.4%	
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.504	0.504	0.504	0.0	0.504	1	1.00	0.504	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.504	0.504	0.504	0.0	0.504	1	1.00	0.504	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 1.39 (ug/mL)
LOQ 3.22 (ug/mL)
Compound Tetrachloroethylene

Lower Curve Limit 3.22 (ug/mL)
Upper Curve Limit 269 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	1.39	1.39	1.39	0.0	1.39	1	42.8	59.4	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	1.39	1.39	1.39	0.0	1.39	1	42.8	59.4	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	1.39	1.39	1.39	0.0	1.39	1	42.8	59.4	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	1.39	1.39	1.39	0.0	1.39	1	42.8	59.4	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	10.28	10.28	10.28	0.0	14.5	14.6	14.6	0.5	14.5	1	2.14	31.1	
													Spike Amount (ug)				
													Native Amount (ug)				
													Spike Recovery (%)				
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	1.39	1.39	1.39	0.0	1.39	1	1.00	1.39	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	1.39	1.39	1.39	0.0	1.39	1	1.00	1.39	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.699 (ug/mL)
LOQ 4.31 (ug/mL)
Compound 1,2-Dibromoethane

Lower Curve Limit 4.31 (ug/mL)
Upper Curve Limit 360 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	029F4301.D	029F4302.D	029F4303.D	GC118P140.M	NA	NA	NA	NA	0.699	0.699	0.699	0.0	0.699	1	42.8	29.9	ND
T1R2 Bag Dry Imp	030F4401.D	030F4402.D	030F4403.D	GC118P140.M	NA	NA	NA	NA	0.699	0.699	0.699	0.0	0.699	1	42.8	29.9	ND
T1R3 Bag Dry Imp	034F4801.D	034F4802.D	034F4803.D	GC118P140.M	NA	NA	NA	NA	0.699	0.699	0.699	0.0	0.699	1	42.8	29.9	ND
T1R0 Bag Dry Imp	028F4201.D	028F4202.D	028F4203.D	GC118P140.M	NA	NA	NA	NA	0.699	0.699	0.699	0.0	0.699	1	42.8	29.9	ND
T1R1 Bag Dry Imp #MS	095F1303.D	095F1304.D	095F1305.D	GC118P140.M	10.70	10.70	10.70	0.0	21.0	21.1	21.2	0.5	21.1	1	2.14	45.1	
														Spike Amount (ug)		43.2	
														Native Amount (ug)		0.00	
														Spike Recovery (%)		105%	
RB H2O	020F3401.D	020F3402.D	020F3403.D	GC118P140.M	NA	NA	NA	NA	0.699	0.699	0.699	0.0	0.699	1	1.00	0.699	ND
RB H2O	033F4703.D	033F4704.D	033F4705.D	GC118P140.M	NA	NA	NA	NA	0.699	0.699	0.699	0.0	0.699	1	1.00	0.699	ND

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bags Condensate FPD

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

MDL 0.100 (ug/mL)
LOQ 0.503 (ug/mL)
Compound Carbon disulfide

Lower Curve Limit 0.503 (ug/mL)
Upper Curve Limit 9.88 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
T1R1 Bag Dry Imp	043B4301.D	043B4302.D	043B4303.D	GC116P46.M	NA	NA	NA	NA	0.100	0.100	0.100	0.0	0.100	1	42.8	4.28	ND
T1R2 Bag Dry Imp	044B4401.D	044B4402.D	044B4403.D	GC116P46.M	NA	NA	NA	NA	0.100	0.100	0.100	0.0	0.100	1	42.8	4.28	ND
T1R3 Bag Dry Imp	045B4501.D	045B4502.D	045B4503.D	GC116P46.M	NA	NA	NA	NA	0.100	0.100	0.100	0.0	0.100	1	42.8	4.28	ND
T1R0 Bag Dry Imp	042B4201.D	042B4202.D	042B4203.D	GC116P46.M	NA	NA	NA	NA	0.100	0.100	0.100	0.0	0.100	1	42.8	4.28	ND
RB H2O	041B4101.D	041B4102.D	041B4103.D	GC116P46.M	NA	NA	NA	NA	0.100	0.100	0.100	0.0	0.100	1	1.00	0.100	ND
T1R1 Bag COND #MS	046B4603.D	046B4604.D	046B4605.D	GC116P46.M	1.69	1.69	1.68	0.4	1.86	1.86	1.93	2.6	1.88	1	2.14	4.03	
													Spike Amount (ug)	5.04			
													Native Amount (ug)	0.00			
													Spike Recovery (%)	80.0%			
gc116p46 #3ss	007B0703.D	007B0704.D	007B0705.D	GC116P46.M	1.59	1.59	1.60	0.6	2.20	2.16	2.15	1.5	2.17	1	1.00	2.17	
													Spike Amount (ug)	2.01			
													Spike Recovery (%)	108%			

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.284 (ppm)
LOQ 2.00 (ppm)
Compound Methane

Lower Curve Limit 2.00 (ppm)
Upper Curve Limit 80,000 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P172R_0711-81.M	1.41	1.41	1.41	0.1	0.910	0.728	0.708	16.3	0.782	1	84.8	0.922	J
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P172R_0711-81.M	1.41	1.41	1.41	0.6	0.532	0.556	0.569	3.6	0.552	1	84.8	0.651	J
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P172R_0711-81.M	1.40	1.40	1.40	0.1	0.710	0.802	0.701	8.8	0.738	1	84.8	0.870	J
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P172R_0711-81.M	NA	NA	NA	NA	0.284	0.284	0.284	0.0	0.284	1	100	0.284	ND
T1R1 M18 Bag S&R	023B1201.D	023B1202.D	023B1203.D	GC114P172R_0711-81.M	1.40	1.40	1.40	0.1	5.49	5.20	5.32	2.8	5.34	1	100	5.34	
gc119p172 #C5 LCS	022B1601.D	022B1602.D	022B1603.D	GC114P172R_0711-81.M	1.40	1.40	1.40	0.0	95.9	94.7	94.8	0.8	95.2	1	100	95.2	
													Spike Amount (ppm)				
													Spike Recovery (%)				

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 S&R

MDL 0.311 (ppm)
LOQ 2.00 (ppm)
Compound Ethane

Lower Curve Limit 2.00 (ppm)
Upper Curve Limit 49,660 (ppm)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ppm)	Conc # 2 (ppm)	Conc # 3 (ppm)	% Diff Conc	Avg Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
T1R1 M18 Bag	019B1001.D	019B1002.D	019B1003.D	GC114P172R_0711-81.M	NA	NA	NA	NA	0.311	0.311	0.311	0.0	0.311	1	73.4	0.424	ND
T1R2 M18 Bag	020B1101.D	020B1102.D	020B1103.D	GC114P172R_0711-81.M	NA	NA	NA	NA	0.311	0.311	0.311	0.0	0.311	1	73.4	0.424	ND
T1R3 M18 Bag	021B1201.D	021B1202.D	021B1203.D	GC114P172R_0711-81.M	NA	NA	NA	NA	0.311	0.311	0.311	0.0	0.311	1	73.4	0.424	ND
N2 Blank	017B1301.D	017B1302.D	017B1303.D	GC114P172R_0711-81.M	NA	NA	NA	NA	0.311	0.311	0.311	0.0	0.311	1	100	0.311	ND
T1R1 M18 Bag S&R	023B1201.D	023B1202.D	023B1203.D	GC114P172R_0711-81.M	1.53	1.53	1.53	0.1	3.97	4.00	3.88	1.8	3.95	1	100	3.95	
gc119p172 #C5 LCS	022B1601.D	022B1602.D	022B1603.D	GC114P172R_0711-81.M	1.53	1.53	1.53	0.0	96.5	95.3	95.4	0.8	95.7	1	100	95.7	
													Spike Amount (ppm)				
													Spike Recovery (%)				

Company	Pace Analytical Services
Analyst	MGM
Parameters	Bag Spike & Recovery

Client #	1108-200
Job #	0711-81
Unspiked Sample ID	T1R1 M18 Bag

$$\% \text{ Recovery} = (T - U) / S \times 100$$

T = after spike concentration

U = before spike concentration

S = theoretical spike concentration

What was the conc of the bag before spiking?

U' (before spiking)

Methane		
MW	16.04	
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
0.910	0.728	0.708
Avg ppm	0.782	

Ethane		
MW	30.07	
Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
0.00	0.00	0.00
Avg ppm	0.00	

What was added to the bag?

Gas Spike #1

Volume Added (mL)

Conc. ppm	Pbar (inHg)	T (F)
323	29.79	70.5
80.0	Total ug	17.1

Conc. ppm	Pbar (inHg)	T (F)
322	29.79	70.5
80.0	Total ug	31.9

Total Vol (mL) vaporized
Total Vol (mL) added as gas
Other volume (mL) Added

0.0		
80.0		
60.0		

0.0		
80.0		
60.0		

What volume was in the bag before spiking?

Wedge Volume	4.607	(L)	Sampled	7/26/11 9:00 AM	Hours	
			Analyzed	7/27/11 12:04 PM	Delta	27:04:36
			Spiked	7/27/11 4:15 PM	Hours	
					Delta	27:48:23
Total Vol. After Spiking	4,747	(mL)	Spike Analyzed	7/28/11 8:03 PM		
			Spike hold equal to or greater than original hold			YES

Ending Volume in Bag (mL)
Original volume in the bag (mL)
Total volume added (mL)
Dilution Factor caused by addition
Dilution Adjusted Base Conc (ppm) "U"

4,747
4,607
140
1.03
0.759

4,607
140
1.03
0.00

Theoretical Spike Conc (ppm) "S"

5.40

5.38

What was the conc of the bag after spiking?

Final Concentration (ppm) "T"

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
5.49	5.20	5.32
Avg ppm	5.34	

Inj 1 (ppm)	Inj 2 (ppm)	Inj 3 (ppm)
3.97	4.00	3.88
Avg ppm	3.95	

RECOVERY %

84.8	%
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73.4	%
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Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.157 (ug/mL)
LOQ 3.13 (ug/mL)
Compound Acetonitrile

Lower Curve Limit 3.13 (ug/mL)
Upper Curve Limit 261 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
M18 T1R1 UnSpkd Cond. Raff.	015B1101.D	015B1102.D	015B1103.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
																6.53	ND

M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
M18 T1R1 Spkd Cond. Raff.	016B1201.D	016B1202.D	016B1203.D	GC122P042.M	3.78	3.78	3.78	0.0	2.43	2.52	2.50	2.2	2.49	1.24	33.6	103	J
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	2.69	2.69	2.69	0.1	3.51	3.50	3.01	9.8	3.34	1	5.00	16.7	
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
																120	

M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
M18 T1R2 UnSpkd Cond. Raff.	018B1401.D	018B1402.D	018B1403.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R2 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
																6.53	ND

M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
M18 T1R2 Spkd Cond. Raff.	019B1501.D	019B1502.D	019B1503.D	GC122P042.M	3.78	3.78	3.78	0.1	2.07	2.09	2.06	0.8	2.07	1.24	33.6	86.2	J
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	2.69	2.69	2.69	0.0	4.20	4.58	4.72	6.7	4.50	1	5.00	22.5	
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
																109	

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.157 (ug/mL)
LOQ 3.13 (ug/mL)
Compound Acetonitrile

Lower Curve Limit 3.13 (ug/mL)
Upper Curve Limit 261 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Qual
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
M18 T1R3 UnSpkd Cond. Raff.	020B1601.D	020B1602.D	020B1603.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
																6.53	ND

M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
M18 T1R3 Spkd Cond. Raff.	021B1901.D	021B1902.D	021B1903.D	GC122P042.M	3.78	3.78	3.78	0.1	2.13	2.40	2.42	7.9	2.32	1.24	33.6	96.4	J
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	2.69	2.69	2.69	0.1	3.64	3.56	4.17	10.0	3.79	1	5.00	18.9	
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
																115	

CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	1.00	0.157	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.157 (ug/mL)
LOQ 3.13 (ug/mL)
Compound Acetonitrile

Lower Curve Limit 3.13 (ug/mL)
Upper Curve Limit 261 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Qual
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	NA	NA	2.69	NA	0.157	0.157	1.37	NA	0.560	1	5.00	2.80	J
% Difference																NA	
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	2.69	2.69	2.69	0.0	3.28	3.35	3.76	8.7	3.46	1	5.00	17.3	
% Difference																3.7%	
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	ND
% Difference																NA	
M18 T1R1 Spkd Cond. Raff. LD	017B1301.D	017B1302.D	017B1303.D	GC122P042.M	3.78	3.78	3.78	0.1	2.51	2.43	2.43	2.2	2.46	1.24	33.6	102	J
% Difference																1.1%	
M18 T1R0 UnSpkd Cond. FB Raff.	014B1001.D	014B1002.D	014B1003.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	ND
M18 H2O RB Raff.	013B0901.D	013B0902.D	013B0903.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	35.0	5.50	ND
M18 AQ LCS 1	011B0701.D	011B0702.D	011B0703.D	GC122P042.M	3.77	3.77	3.78	0.1	20.5	20.5	21.1	2.0	20.7	1	10.0	207	
Spike Amount (ug)																235	
Spike Recovery (%)																88.0%	
M18 AQ LCS 2	012B0801.D	012B0802.D	012B0803.D	GC122P042.M	3.77	3.77	3.77	0.1	20.3	20.1	20.6	1.3	20.4	1	10.0	204	
Spike Amount (ug)																235	
Spike Recovery (%)																86.5%	

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.157 (ug/mL)
LOQ 1.57 (ug/mL)
Compound Acrylonitrile

Lower Curve Limit 1.57 (ug/mL)
Upper Curve Limit 262 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	121	0.801	ND
M18 T1R1 UnSpkd Cond. Raff.	015B1101.D	015B1102.D	015B1103.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	121	5.38	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
																		5.38	ND

M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	3.18	3.18	3.18	0.1	1.70	1.66	1.74	2.5	1.70	1.24	5.00	10.5	100	10.5	
M18 T1R1 Spkd Cond. Raff.	016B1201.D	016B1202.D	016B1203.D	GC122P042.M	3.90	3.90	3.90	0.0	4.53	4.63	4.48	1.9	4.55	1.24	33.6	189	100	189	
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	3.17	3.17	3.17	0.0	11.9	12.0	12.0	0.5	12.0	1	5.00	59.8	100	59.8	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	3.18	3.17	3.18	0.1	2.37	1.84	2.01	14.4	2.07	1	5.00	10.4	100	10.4	
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	3.17	3.17	3.17	0.0	2.36	2.23	2.18	4.5	2.26	1	5.00	11.3	100	11.3	
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	100	0.785	ND
																		281	

M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	121	0.801	ND
M18 T1R2 UnSpkd Cond. Raff.	018B1401.D	018B1402.D	018B1403.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	121	5.38	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R2 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
																		5.38	ND

M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	3.18	3.18	3.18	0.1	1.34	1.38	1.42	3.1	1.38	1.24	5.00	8.55	100	8.55	J
M18 T1R2 Spkd Cond. Raff.	019B1501.D	019B1502.D	019B1503.D	GC122P042.M	3.90	3.90	3.90	0.1	4.31	4.49	4.44	2.3	4.41	1.24	33.6	184	100	184	
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	3.17	3.17	3.17	0.0	11.2	10.5	10.7	3.8	10.8	1	5.00	54.1	100	54.1	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	3.18	3.18	3.18	0.0	3.05	2.84	2.64	7.1	2.84	1	5.00	14.2	100	14.2	
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	3.17	3.17	3.17	0.0	2.96	3.32	3.09	6.2	3.12	1	5.00	15.6	100	15.6	
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	100	0.785	ND
																		276	

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.157 (ug/mL)
LOQ 1.57 (ug/mL)
Compound Acrylonitrile

Lower Curve Limit 1.57 (ug/mL)
Upper Curve Limit 262 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	121	0.801	ND
M18 T1R3 UnSpkd Cond. Raff.	020B1601.D	020B1602.D	020B1603.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	121	5.38	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	121	0.647	ND
																		5.38	ND

M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	3.18	3.18	3.18	0.0	1.51	1.42	1.53	4.4	1.49	1.24	5.00	9.21	100	9.21	J
M18 T1R3 Spkd Cond. Raff.	021B1901.D	021B1902.D	021B1903.D	GC122P042.M	3.90	3.90	3.91	0.1	4.55	4.69	4.96	4.9	4.73	1.24	33.6	197	100	197	
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	3.17	3.17	3.17	0.0	13.3	13.2	13.7	2.2	13.4	1	5.00	67.1	100	67.1	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	3.18	3.18	3.18	0.0	2.35	2.41	2.06	9.5	2.27	1	5.00	11.4	100	11.4	
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	3.18	3.18	3.18	0.0	2.96	2.87	3.69	16.3	3.17	1	5.00	15.9	100	15.9	
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	100	0.785	ND
																		300	

CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	1.00	0.157	100	0.157	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	5.00	0.972	100	0.972	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	100	0.785	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	100	0.785	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	5.00	0.785	100	0.785	ND
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	3.17	3.17	3.17	0.1	11.7	11.1	11.6	3.1	11.5	1	5.00	57.3	100	57.3	
																% Difference		4.2%	
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	3.17	3.18	3.17	0.1	2.11	2.16	2.38	7.2	2.22	1	5.00	11.1	100	11.1	
																% Difference		1.7%	
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	3.18	3.18	3.18	0.0	2.05	1.79	1.95	7.2	1.93	1.24	5.00	11.9	100	11.9	
																% Difference		13.5%	
M18 T1R1 Spkd Cond. Raff. LD	017B1301.D	017B1302.D	017B1303.D	GC122P042.M	3.90	3.90	3.90	0.1	4.54	4.57	4.45	1.5	4.52	1.24	33.6	188	121	155	
																% Difference		18.0%	
M18 T1R0 UnSpkd Cond. FB Raff.	014B1001.D	014B1002.D	014B1003.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1.24	33.6	6.53	100	6.53	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.157 (ug/mL)
LOQ 1.57 (ug/mL)
Compound Acrylonitrile

Lower Curve Limit 1.57 (ug/mL)
Upper Curve Limit 262 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 H2O RB Raff.	013B0901.D	013B0902.D	013B0903.D	GC122P042.M	NA	NA	NA	NA	0.157	0.157	0.157	0.0	0.157	1	35.0	5.50	100	5.50	ND
M18 AQ LCS 1	011B0701.D	011B0702.D	011B0703.D	GC122P042.M	3.90	3.90	3.90	0.0	21.4	21.4	22.0	1.6	21.6	1	10.0	216	100	216	
																Spike Amount (ug)		236	
																Spike Recovery (%)		91.7%	
M18 AQ LCS 2	012B0801.D	012B0802.D	012B0803.D	GC122P042.M	3.90	3.90	3.90	0.0	21.7	21.9	22.5	2.0	22.0	1	10.0	220	100	220	
																Spike Amount (ug)		236	
																Spike Recovery (%)		93.4%	

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.193 (ug/mL)
LOQ 1.93 (ug/mL)
Compound 2-Nitropropane

Lower Curve Limit 1.93 (ug/mL)
Upper Curve Limit 323 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	77.8	1.54	ND
M18 T1R1 UnSpkd Cond. Raff.	015B1101.D	015B1102.D	015B1103.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	77.8	10.3	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
																		10.3	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	100	1.20	ND
M18 T1R1 Spkd Cond. Raff.	016B1201.D	016B1202.D	016B1203.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	100	8.05	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	5.28	5.28	5.28	0.0	4.74	4.99	4.77	3.3	4.83	1	5.00	24.2	100	24.2	ND
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
																		24.2	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	77.8	1.54	ND
M18 T1R2 UnSpkd Cond. Raff.	018B1401.D	018B1402.D	018B1403.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	77.8	10.3	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R2 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
																		10.3	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	100	1.20	ND
M18 T1R2 Spkd Cond. Raff.	019B1501.D	019B1502.D	019B1503.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	100	8.05	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	5.28	5.28	5.28	0.0	4.17	4.19	4.21	0.6	4.19	1	5.00	21.0	100	21.0	ND
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
																		21.0	

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.193 (ug/mL)
LOQ 1.93 (ug/mL)
Compound 2-Nitropropane

Lower Curve Limit 1.93 (ug/mL)
Upper Curve Limit 323 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	77.8	1.54	ND
M18 T1R3 UnSpkd Cond. Raff.	020B1601.D	020B1602.D	020B1603.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	77.8	10.3	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	77.8	1.24	ND
																		10.3	ND

M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	100	1.20	ND
M18 T1R3 Spkd Cond. Raff.	021B1901.D	021B1902.D	021B1903.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	100	8.05	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	5.28	5.28	5.28	0.0	4.52	4.54	4.52	0.3	4.53	1	5.00	22.6	100	22.6	ND
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
																		22.6	

CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	1.00	0.193	100	0.193	ND
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M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	100	1.20	ND
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M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
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XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
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CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
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LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	5.28	5.28	5.28	0.0	5.05	4.97	4.71	4.1	4.91	1	5.00	24.5	100	24.5	
																		Spike Amount (ug)	29.1
																		Spike Recovery (%)	84.5%

LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	5.28	5.28	5.28	0.0	4.92	4.91	4.71	2.9	4.85	1	5.00	24.2	100	24.2	
																		Spike Amount (ug)	29.1
																		Spike Recovery (%)	83.4%

M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	5.28	5.28	5.28	0.0	4.63	4.63	4.72	1.3	4.66	1	5.00	23.3	100	23.3	
																		% Difference	3.6%

M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	5.00	0.967	100	0.967	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.193 (ug/mL)
LOQ 1.93 (ug/mL)
Compound 2-Nitropropane

Lower Curve Limit 1.93 (ug/mL)
Upper Curve Limit 323 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	5.00	1.20	100	1.20	ND
% Difference																		NA	
M18 T1R1 Spkd Cond. Raff. LD	017B1301.D	017B1302.D	017B1303.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	100	8.05	ND
% Difference																		NA	
M18 T1R0 UnSpkd Cond. FB Raff.	014B1001.D	014B1002.D	014B1003.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1.24	33.6	8.05	100	8.05	ND
M18 H2O RB Raff.	013B0901.D	013B0902.D	013B0903.D	GC122P042.M	NA	NA	NA	NA	0.193	0.193	0.193	0.0	0.193	1	35.0	6.77	100	6.77	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.148 (ug/mL)
LOQ 1.48 (ug/mL)
Compound MTBE

Lower Curve Limit 1.48 (ug/mL)
Upper Curve Limit 246 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	82.3	1.11	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
																		1.11	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	100	0.913	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	4.05	4.05	4.05	0.0	3.82	3.94	3.97	2.4	3.91	1	5.00	19.5	100	19.5	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
																		19.5	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	82.3	1.11	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R1 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
																		1.11	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	100	0.913	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	4.05	4.05	4.05	0.0	3.23	3.06	3.10	3.2	3.13	1	5.00	15.7	100	15.7	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
																		15.7	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	82.3	1.11	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	82.3	0.896	ND
																		1.11	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.148 (ug/mL)
LOQ 1.48 (ug/mL)
Compound MTBE

Lower Curve Limit 1.48 (ug/mL)
Upper Curve Limit 246 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	100	0.913	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	4.05	4.05	4.05	0.0	3.72	3.81	4.13	6.3	3.89	1	5.00	19.4	100	19.4	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
																		19.4	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	1.00	0.148	100	0.148	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	100	0.913	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	4.05	4.05	4.05	0.0	4.11	4.57	3.84	9.6	4.17	1	5.00	20.9	100	20.9	
																		Spike Amount (ug)	22.1
																		Spike Recovery (%)	94.3%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	4.05	4.05	4.05	0.0	3.95	4.31	3.76	7.6	4.01	1	5.00	20.0	100	20.0	
																		Spike Amount (ug)	22.1
																		Spike Recovery (%)	90.5%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	4.05	4.05	4.05	0.1	3.80	3.68	3.95	3.7	3.81	1	5.00	19.0	100	19.0	
																		% Difference	2.6%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1	5.00	0.738	100	0.738	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.148	0.148	0.148	0.0	0.148	1.24	5.00	0.913	100	0.913	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.138 (ug/mL)
LOQ 1.38 (ug/mL)
Compound Isooctane

Lower Curve Limit 1.38 (ug/mL)
Upper Curve Limit 230 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	89.8	0.949	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
																		0.949	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	100	0.852	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	5.49	5.49	5.49	0.0	4.68	4.76	4.52	2.9	4.66	1	5.00	23.3	100	23.3	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
																		23.3	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	89.8	0.949	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R2 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
																		0.949	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	100	0.852	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	5.49	5.49	5.49	0.0	4.10	4.09	4.14	0.7	4.11	1	5.00	20.6	100	20.6	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
																		20.6	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	89.8	0.949	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	89.8	0.766	ND
																		0.949	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.138 (ug/mL)
LOQ 1.38 (ug/mL)
Compound Isooctane

Lower Curve Limit 1.38 (ug/mL)
Upper Curve Limit 230 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	100	0.852	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	5.49	5.49	5.49	0.0	4.19	4.22	4.24	0.6	4.21	1	5.00	21.1	100	21.1	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
																		21.1	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	1.00	0.138	100	0.138	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	100	0.852	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	5.49	5.49	5.49	0.0	4.54	4.42	4.24	3.6	4.40	1	5.00	22.0	100	22.0	
																		Spike Amount (ug)	24.1
																		Spike Recovery (%)	91.3%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	5.49	5.49	5.49	0.0	4.35	4.34	4.26	1.3	4.32	1	5.00	21.6	100	21.6	
																		Spike Amount (ug)	24.1
																		Spike Recovery (%)	89.6%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	5.49	5.49	5.49	0.0	4.47	4.34	4.52	2.3	4.44	1	5.00	22.2	100	22.2	
																		% Difference	4.6%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1	5.00	0.688	100	0.688	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.138	0.138	0.138	0.0	0.138	1.24	5.00	0.852	100	0.852	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.159 (ug/mL)
LOQ 1.59 (ug/mL)
Compound MIBK

Lower Curve Limit 1.59 (ug/mL)
Upper Curve Limit 265 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	84.5	1.17	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
																		1.17	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	100	0.985	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	5.79	5.79	5.79	0.0	4.31	4.40	4.09	4.1	4.27	1	5.00	21.3	100	21.3	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
																		21.3	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	84.5	1.17	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R1 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
																		1.17	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	100	0.985	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	5.79	5.79	5.79	0.0	3.91	3.87	4.01	2.1	3.93	1	5.00	19.7	100	19.7	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
																		19.7	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	84.5	1.17	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	84.5	0.941	ND
																		1.17	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.159 (ug/mL)
LOQ 1.59 (ug/mL)
Compound MIBK

Lower Curve Limit 1.59 (ug/mL)
Upper Curve Limit 265 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	100	0.985	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	5.79	5.79	5.79	0.0	3.89	3.96	3.89	1.2	3.91	1	5.00	19.6	100	19.6	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
																		19.6	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	1.00	0.159	100	0.159	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	100	0.985	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	5.79	5.79	5.79	0.0	4.35	4.15	4.07	3.8	4.19	1	5.00	21.0	100	21.0	
																		Spike Amount (ug)	23.9
																		Spike Recovery (%)	87.7%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	5.79	5.79	5.79	0.0	4.16	4.09	4.08	1.3	4.11	1	5.00	20.6	100	20.6	
																		Spike Amount (ug)	23.9
																		Spike Recovery (%)	86.0%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	5.79	5.79	5.79	0.0	4.16	3.95	4.19	3.6	4.10	1	5.00	20.5	100	20.5	
																		% Difference	4.0%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1	5.00	0.796	100	0.796	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.159	0.159	0.159	0.0	0.159	1.24	5.00	0.985	100	0.985	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.227 (ug/mL)
LOQ 2.21 (ug/mL)
Compound Chlorobenzene

Lower Curve Limit 2.21 (ug/mL)
Upper Curve Limit 369 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	91.8	1.53	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
																		1.53	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	100	1.41	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	6.92	6.92	6.92	0.0	6.16	6.11	5.99	1.6	6.09	1	5.00	30.4	100	30.4	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
																		30.4	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	91.8	1.53	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R1 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
																		1.53	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	100	1.41	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	6.92	6.92	6.92	0.0	6.05	6.13	6.79	7.4	6.33	1	5.00	31.6	100	31.6	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
																		31.6	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	91.8	1.53	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	91.8	1.24	ND
																		1.53	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.227 (ug/mL)
LOQ 2.21 (ug/mL)
Compound Chlorobenzene

Lower Curve Limit 2.21 (ug/mL)
Upper Curve Limit 369 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	100	1.41	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	6.92	6.92	6.92	0.0	5.59	6.01	5.97	4.6	5.86	1	5.00	29.3	100	29.3	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
																		29.3	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	1.00	0.227	100	0.227	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	100	1.41	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	6.92	6.92	6.92	0.0	6.32	6.33	5.84	5.2	6.16	1	5.00	30.8	100	30.8	
																		Spike Amount (ug)	33.2
																		Spike Recovery (%)	92.9%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	6.92	6.92	6.92	0.0	5.92	6.45	5.75	6.8	6.04	1	5.00	30.2	100	30.2	
																		Spike Amount (ug)	33.2
																		Spike Recovery (%)	91.0%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	6.92	6.92	6.92	0.0	5.91	5.55	6.01	4.6	5.82	1	5.00	29.1	100	29.1	
																		% Difference	4.3%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1	5.00	1.14	100	1.14	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.227	0.227	0.227	0.0	0.227	1.24	5.00	1.41	100	1.41	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.173 (ug/mL)
LOQ 1.73 (ug/mL)
Compound Ethylbenzene

Lower Curve Limit 1.73 (ug/mL)
Upper Curve Limit 289 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	94.4	1.13	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
																		1.13	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	7.05	7.05	7.05	0.0	4.95	4.95	4.83	1.5	4.91	1	5.00	24.5	100	24.5	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
																		24.5	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	94.4	1.13	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R1 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
																		1.13	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	7.05	7.05	7.05	0.0	4.91	4.93	5.37	5.9	5.07	1	5.00	25.3	100	25.3	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
																		25.3	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	94.4	1.13	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	94.4	0.916	ND
																		1.13	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.173 (ug/mL)
LOQ 1.73 (ug/mL)
Compound Ethylbenzene

Lower Curve Limit 1.73 (ug/mL)
Upper Curve Limit 289 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	7.05	7.05	7.05	0.0	4.49	4.83	4.89	5.2	4.74	1	5.00	23.7	100	23.7	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
																		23.7	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	1.00	0.173	100	0.173	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	7.05	7.05	7.05	0.0	5.03	5.03	4.66	5.0	4.91	1	5.00	24.5	100	24.5	
																		Spike Amount (ug)	26.0
																		Spike Recovery (%)	94.5%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	7.05	7.05	7.05	0.0	4.75	5.07	4.56	5.8	4.79	1	5.00	24.0	100	24.0	
																		Spike Amount (ug)	26.0
																		Spike Recovery (%)	92.2%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	7.05	7.05	7.05	0.0	4.74	4.50	4.87	4.4	4.70	1	5.00	23.5	100	23.5	
																		% Difference	4.2%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.865	100	0.865	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.172 (ug/mL)
LOQ 1.72 (ug/mL)
Compound m/p-Xylene

Lower Curve Limit 1.72 (ug/mL)
Upper Curve Limit 286 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	96.5	1.10	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
																		1.10	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	100	1.06	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	7.12	7.12	7.12	0.0	8.43	8.46	8.16	2.3	8.35	1	5.00	41.8	100	41.8	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
																		41.8	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	96.5	1.10	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R2 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
																		1.10	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	100	1.06	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	7.12	7.12	7.12	0.0	8.23	8.30	8.84	4.6	8.46	1	5.00	42.3	100	42.3	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
																		42.3	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	96.5	1.10	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	96.5	0.890	ND
																		1.10	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.172 (ug/mL)
LOQ 1.72 (ug/mL)
Compound m/p-Xylene

Lower Curve Limit 1.72 (ug/mL)
Upper Curve Limit 286 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	100	1.06	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	7.12	7.12	7.12	0.0	7.62	8.23	8.32	5.4	8.06	1	5.00	40.3	100	40.3	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
																		40.3	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	1.00	0.172	100	0.172	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	100	1.06	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	7.12	7.12	7.12	0.0	8.49	8.43	7.80	5.3	8.24	1	5.00	41.2	100	41.2	
																		Spike Amount (ug)	43.0
																		Spike Recovery (%)	95.9%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	7.12	7.12	7.12	0.0	7.99	8.30	7.62	4.4	7.97	1	5.00	39.9	100	39.9	
																		Spike Amount (ug)	43.0
																		Spike Recovery (%)	92.8%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	7.12	7.12	7.12	0.0	7.98	7.65	8.26	3.9	7.97	1	5.00	39.8	100	39.8	
																		% Difference	4.6%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1	5.00	0.859	100	0.859	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.172	0.172	0.172	0.0	0.172	1.24	5.00	1.06	100	1.06	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.181 (ug/mL)
LOQ 1.81 (ug/mL)
Compound Styrene

Lower Curve Limit 1.81 (ug/mL)
Upper Curve Limit 302 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	92.0	1.22	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
																		1.22	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	100	1.12	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	7.27	7.27	7.27	0.0	5.05	5.11	4.87	2.8	5.01	1	5.00	25.0	100	25.0	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
																		25.0	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	92.0	1.22	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R2 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
																		1.22	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	100	1.12	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	7.27	7.27	7.27	0.0	4.97	5.03	5.20	2.6	5.07	1	5.00	25.3	100	25.3	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
																		25.3	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	92.0	1.22	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	92.0	0.983	ND
																		1.22	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.181 (ug/mL)
LOQ 1.81 (ug/mL)
Compound Styrene

Lower Curve Limit 1.81 (ug/mL)
Upper Curve Limit 302 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	100	1.12	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	7.27	7.27	7.27	0.0	4.62	5.00	5.10	5.9	4.91	1	5.00	24.5	100	24.5	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
																		24.5	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	1.00	0.181	100	0.181	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	100	1.12	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	7.27	7.27	7.27	0.0	5.30	5.18	4.82	5.5	5.10	1	5.00	25.5	100	25.5	
																		Spike Amount (ug)	27.2
																		Spike Recovery (%)	94.0%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	7.27	7.27	7.27	0.0	4.95	5.06	4.72	3.9	4.91	1	5.00	24.5	100	24.5	
																		Spike Amount (ug)	27.2
																		Spike Recovery (%)	90.4%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	7.27	7.27	7.27	0.0	4.76	4.61	4.95	3.7	4.78	1	5.00	23.9	100	23.9	
																		% Difference	4.6%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1	5.00	0.904	100	0.904	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.181	0.181	0.181	0.0	0.181	1.24	5.00	1.12	100	1.12	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.176 (ug/mL)
LOQ 1.76 (ug/mL)
Compound o-Xylene

Lower Curve Limit 1.76 (ug/mL)
Upper Curve Limit 283 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	94.9	1.14	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
																		1.14	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	100	1.09	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	7.32	7.32	7.32	0.0	5.06	5.12	4.87	2.9	5.02	1	5.00	25.1	100	25.1	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
																		25.1	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	94.9	1.14	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R1 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
																		1.14	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	100	1.09	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	7.32	7.32	7.32	0.0	4.96	5.05	5.19	2.4	5.07	1	5.00	25.3	100	25.3	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
																		25.3	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	94.9	1.14	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	94.9	0.924	ND
																		1.14	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.176 (ug/mL)
LOQ 1.76 (ug/mL)
Compound o-Xylene

Lower Curve Limit 1.76 (ug/mL)
Upper Curve Limit 283 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	100	1.09	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	7.32	7.32	7.32	0.0	4.62	5.01	5.14	6.1	4.93	1	5.00	24.6	100	24.6	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
																		24.6	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	1.00	0.176	100	0.176	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	100	1.09	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	7.32	7.32	7.32	0.0	5.23	5.09	4.73	5.8	5.02	1	5.00	25.1	100	25.1	
																		Spike Amount (ug)	26.4
																		Spike Recovery (%)	95.2%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	7.32	7.32	7.32	0.0	4.87	4.96	4.63	4.0	4.82	1	5.00	24.1	100	24.1	
																		Spike Amount (ug)	26.4
																		Spike Recovery (%)	91.5%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	7.32	7.32	7.32	0.0	4.79	4.62	4.95	3.5	4.79	1	5.00	23.9	100	23.9	
																		% Difference	4.6%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1	5.00	0.878	100	0.878	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.176	0.176	0.176	0.0	0.176	1.24	5.00	1.09	100	1.09	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.173 (ug/mL)
LOQ 1.73 (ug/mL)
Compound Cumene

Lower Curve Limit 1.73 (ug/mL)
Upper Curve Limit 289 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	96.4	1.11	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
																		1.11	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	7.56	7.56	7.56	0.0	5.05	5.16	4.84	3.5	5.02	1	5.00	25.1	100	25.1	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
																		25.1	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	96.4	1.11	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R1 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
																		1.11	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	7.56	7.56	7.56	0.0	4.99	5.14	5.12	1.9	5.08	1	5.00	25.4	100	25.4	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
																		25.4	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	96.4	1.11	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	96.4	0.898	ND
																		1.11	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.173 (ug/mL)
LOQ 1.73 (ug/mL)
Compound Cumene

Lower Curve Limit 1.73 (ug/mL)
Upper Curve Limit 289 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	7.56	7.56	7.56	0.0	4.66	5.07	5.11	5.8	4.95	1	5.00	24.7	100	24.7	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
																		24.7	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	1.00	0.173	100	0.173	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	7.56	7.56	7.56	0.0	5.34	5.06	4.73	6.3	5.04	1	5.00	25.2	100	25.2	
																		Spike Amount (ug)	26.0
																		Spike Recovery (%)	97.0%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	7.56	7.56	7.56	0.0	4.90	4.82	4.65	2.8	4.79	1	5.00	24.0	100	24.0	
																		Spike Amount (ug)	26.0
																		Spike Recovery (%)	92.1%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	7.56	7.56	7.56	0.0	4.75	4.66	4.92	3.0	4.78	1	5.00	23.9	100	23.9	
																		% Difference	4.7%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1	5.00	0.866	100	0.866	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.173	0.173	0.173	0.0	0.173	1.24	5.00	1.07	100	1.07	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.240 (ug/mL)
LOQ 2.40 (ug/mL)
Compound Nitrobenzene

Lower Curve Limit 2.40 (ug/mL)
Upper Curve Limit 401 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R1 UnSpkd Cond. CS2	001F4601.D	001F4602.D	001F4603.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	88.6	1.68	ND
M18 T1R1 U XAD FH	015F1401.D	015F1402.D	015F1403.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R1 U XAD BH	016F1501.D	016F1502.D	016F1503.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R1 U CT FH	017F1601.D	017F1602.D	017F1603.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R1 U CT BH	018F1701.D	018F1702.D	018F1703.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
																		1.68	ND
M18 T1R1 Spkd Cond. CS2	002F4701.D	002F4702.D	002F4703.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	100	1.49	ND
M18 T1R1 Sp XAD FH	019F1801.D	019F1802.D	019F1803.D	GC121P093.M	8.71	8.71	8.71	0.0	6.99	6.84	6.07	8.4	6.63	1	5.00	33.2	100	33.2	
M18 T1R1 Sp XAD BH	021F2201.D	021F2202.D	021F2203.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
M18 T1R1 Sp CT FH	022F2301.D	022F2302.D	022F2303.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
M18 T1R1 Sp CT BH	024F2501.D	024F2502.D	024F2503.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
																		33.2	
M18 T1R2 UnSpkd Cond. CS2	004F4901.D	004F4902.D	004F4903.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	88.6	1.68	ND
M18 T1R2 U XAD FH	025F2601.D	025F2602.D	025F2603.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R2 U XAD BH	026F2701.D	026F2702.D	026F2703.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R2 U CT FH	027F2801.D	027F2802.D	027F2803.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R2 U CT BH	028F2901.D	028F2902.D	028F2903.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
																		1.68	ND
M18 T1R2 Spkd Cond. CS2	005F5001.D	005F5002.D	005F5003.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	100	1.49	ND
M18 T1R2 Sp	029F3001.D	029F3002.D	029F3003.D	GC121P093.M	8.71	8.71	8.71	0.0	6.39	6.31	6.44	1.1	6.38	1	5.00	31.9	100	31.9	
M18 T1R2 Sp	030F3101.D	030F3102.D	030F3103.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
M18 T1R2 Sp CT FH	031F3401.D	031F3402.D	031F3403.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
M18 T1R2 Sp CT BH	032F3501.D	032F3502.D	032F3503.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
																		31.9	
M18 T1R3 UnSpkd Cond. CS2	006F5101.D	006F5102.D	006F5103.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	88.6	1.68	ND
M18 T1R3 U XAD FH	033F3601.D	033F3602.D	033F3603.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R3 U XAD BH	034F3701.D	034F3702.D	034F3703.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R3 U CT FH	035F3801.D	035F3802.D	035F3803.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
M18 T1R3 U CT BH	036F3901.D	036F3902.D	036F3903.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	88.6	1.35	ND
																		1.68	ND

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Spikes, 3 Blanks

MDL 0.240 (ug/mL)
LOQ 2.40 (ug/mL)
Compound Nitrobenzene

Lower Curve Limit 2.40 (ug/mL)
Upper Curve Limit 401 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Lab ID # 3	Analysis Method	Ret Time (min)	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	Conc # 3 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	Aliquot Factor / DF	Vol (mL)	Catch Weight (ug)	Rec Eff (%)	Adj Catch Weight (ug)	Qual
M18 T1R3 Spkd Cond. CS2	007F5201.D	007F5202.D	007F5203.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	100	1.49	ND
M18 T1R3 Sp XAD FH	037F4001.D	037F4002.D	037F4003.D	GC121P093.M	8.71	8.71	8.71	0.0	6.26	6.29	5.93	3.8	6.16	1	5.00	30.8	100	30.8	
M18 T1R3 Sp XAD BH	038F4101.D	038F4102.D	038F4103.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
M18 T1R3 Sp CT FH	039F4201.D	039F4202.D	039F4203.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
M18 T1R3 Sp CT BH	040F4301.D	040F4302.D	040F4303.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
																		30.8	
CS2 blank	008F0701.D	008F0702.D	008F0703.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	1.00	0.240	100	0.240	ND
M18 T1R0 UnSpkd Cond. FB CS2	008F5301.D	008F5302.D	008F5303.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	100	1.49	ND
M18 H2O RB CS2	009F5401.D	009F5402.D	009F5403.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
XAD MB	011F1001.D	011F1002.D	011F1003.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
CT MB	012F1101.D	012F1102.D	012F1103.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
LCS1 XAD	009F0801.D	009F0802.D	009F0803.D	GC121P093.M	8.71	8.71	8.71	0.0	6.59	6.33	6.41	2.3	6.44	1	5.00	32.2	100	32.2	
																		Spike Amount (ug)	36.1
																		Spike Recovery (%)	89.4%
LCS CT	010F0901.D	010F0902.D	010F0903.D	GC121P093.M	8.71	8.71	8.71	0.0	6.20	5.99	6.56	5.0	6.25	1	5.00	31.2	100	31.2	
																		Spike Amount (ug)	36.1
																		Spike Recovery (%)	86.7%
M18 T1R1 Sp XAD FH LD	020F1901.D	020F1902.D	020F1903.D	GC121P093.M	8.71	8.71	8.71	0.0	6.42	6.07	6.14	3.4	6.21	1	5.00	31.0	100	31.0	
																		% Difference	6.4%
M18 T1R1 Sp CT FH LD	023F2401.D	023F2402.D	023F2403.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1	5.00	1.20	100	1.20	ND
																		% Difference	NA
M18 T1R1 Spkd Cond. CS2 LD	003F4801.D	003F4802.D	003F4803.D	GC121P093.M	NA	NA	NA	NA	0.240	0.240	0.240	0.0	0.240	1.24	5.00	1.49	100	1.49	ND
																		% Difference	NA

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Collocated runs

Location **FHR - ICR**

Analyte **Acetonitrile**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	235	0.54	51.1
	Spike	120		0.49	

M18 T1 R2	Sample	0.00	235	0.52	46.2
	Spike	109		0.53	

M18 T1 R3	Sample	0.00	235	0.52	49.0
	Spike	115		0.49	

Avg Recovery: **48.8**

Analyte **Acrylonitrile**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	236	0.54	119
	Spike	281		0.49	

M18 T1 R2	Sample	0.00	236	0.52	117
	Spike	276		0.53	

M18 T1 R3	Sample	0.00	236	0.52	128
	Spike	300		0.49	

Avg Recovery: **121**

Analyte **MTBE**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	22.1	0.54	88.3
	Spike	19.5		0.49	

M18 T1 R2	Sample	0.00	22.1	0.52	70.7
	Spike	15.7		0.53	

M18 T1 R3	Sample	0.00	22.1	0.52	87.8
	Spike	19.4		0.49	

Avg Recovery: **82.3**

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Collocated runs

Location **FHR - ICR**

Analyte **2-Nitropropane**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	29.1	0.54	83.2
	Spike	24.2		0.49	

M18 T1 R2	Sample	0.00	29.1	0.52	72.1
	Spike	21.0		0.53	

M18 T1 R3	Sample	0.00	29.1	0.52	78.0
	Spike	22.6		0.49	

Avg Recovery: **77.8**

Analyte **Isooctane**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	24.1	0.54	96.6
	Spike	23.3		0.49	

M18 T1 R2	Sample	0.00	24.1	0.52	85.3
	Spike	20.6		0.53	

M18 T1 R3	Sample	0.00	24.1	0.52	87.4
	Spike	21.1		0.49	

Avg Recovery: **89.8**

Analyte **MIBK**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	23.9	0.54	89.3
	Spike	21.3		0.49	

M18 T1 R2	Sample	0.00	23.9	0.52	82.3
	Spike	19.7		0.53	

M18 T1 R3	Sample	0.00	23.9	0.52	81.9
	Spike	19.6		0.49	

Avg Recovery: **84.5**

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Collocated runs

Location **FHR - ICR**

Analyte **Chlorobenzene**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	33.2	0.54	91.7
	Spike	30.4		0.49	

M18 T1 R2	Sample	0.00	33.2	0.52	95.3
	Spike	31.6		0.53	

M18 T1 R3	Sample	0.00	33.2	0.52	88.2
	Spike	29.3		0.49	

Avg Recovery: **91.8**

Analyte **Ethylbenzene**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	26.0	0.54	94.5
	Spike	24.5		0.49	

M18 T1 R2	Sample	0.00	26.0	0.52	97.6
	Spike	25.3		0.53	

M18 T1 R3	Sample	0.00	26.0	0.52	91.3
	Spike	23.7		0.49	

Avg Recovery: **94.4**

Analyte **m/p-Xylene**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	43.0	0.54	97.2
	Spike	41.8		0.49	

M18 T1 R2	Sample	0.00	43.0	0.52	98.4
	Spike	42.3		0.53	

M18 T1 R3	Sample	0.00	43.0	0.52	93.8
	Spike	40.3		0.49	

Avg Recovery: **96.5**

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Collocated runs

Location **FHR - ICR**

Analyte **Styrene**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	27.2	0.54	92.2
	Spike	25.0		0.49	

M18 T1 R2	Sample	0.00	27.2	0.52	93.3
	Spike	25.3		0.53	

M18 T1 R3	Sample	0.00	27.2	0.52	90.4
	Spike	24.5		0.49	

Avg Recovery: **92.0**

Analyte **o-Xylene**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	26.4	0.54	95.2
	Spike	25.1		0.49	

M18 T1 R2	Sample	0.00	26.4	0.52	96.1
	Spike	25.3		0.53	

M18 T1 R3	Sample	0.00	26.4	0.52	93.5
	Spike	24.6		0.49	

Avg Recovery: **94.9**

Analyte **Cumene**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	26.0	0.54	96.5
	Spike	25.1		0.49	

M18 T1 R2	Sample	0.00	26.0	0.52	97.7
	Spike	25.4		0.53	

M18 T1 R3	Sample	0.00	26.0	0.52	95.2
	Spike	24.7		0.49	

Avg Recovery: **96.4**

Company	Pace Analytical
Analyst	SJE
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Collocated runs

Location **FHR - ICR**

Analyte **Nitrobenzene**

Sample ID	Type	Catch Weight (ug)	Spike AMT (ug)	Sample Vol	Rec. (%)
M18 T1 R1	Sample	0.00	36.1	0.54	92.0
	Spike	33.2		0.49	

M18 T1 R2	Sample	0.00	36.1	0.52	88.5
	Spike	31.9		0.53	

M18 T1 R3	Sample	0.00	36.1	0.52	85.5
	Spike	30.8		0.49	

Avg Recovery: **88.6**

Company	Pace Analytical
Analyst	CJT / KLM
Parameters	EPA Method 308

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 2 Blanks

Front MDL 0.790 (ug/mL)

Back MDL 0.161 (ug/mL)

LOQ 1.58 (ug/mL)

Compound Methanol

Lower Curve Limit 1.58 (ug/mL)

Upper Curve Limit 3,161 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
M308 T1R1 WC	037F3601.D	037F3602.D	GC120P155.M	NA	NA	NA	0.790	0.790	0.0	0.790	1	42.0	33.2	ND
M308 T1R1 SG FH	080B2801.D	080B2802.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
M308 T1R1 SG BH	082B3201.D	082B3202.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
													33.2	ND

M308 T1R2 WC	039F3801.D	039F3802.D	GC120P155.M	NA	NA	NA	0.790	0.790	0.0	0.790	1	42.0	33.2	ND
M308 T1R2 SG FH	083B3301.D	083B3302.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
M308 T1R2 SG BH	084B3401.D	084B3402.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
													33.2	ND

M308 T1R3 WC	040F3901.D	040F3902.D	GC120P155.M	NA	NA	NA	0.790	0.790	0.0	0.790	1	42.0	33.2	ND
M308 T1R3 SG FH	085B3501.D	085B3502.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
M308 T1R3 SG BH	086B3601.D	086B3602.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
													33.2	ND

M308 T1R0 WC FB	041F4201.D	041F4202.D	GC120P155.M	NA	NA	NA	0.790	0.790	0.0	0.790	1	42.0	33.2	ND
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M308 T1R0 SG FB	087B3701.D	087B3702.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
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Company	Pace Analytical
Analyst	CJT / KLM
Parameters	EPA Method 308

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 2 Blanks

Front MDL 0.790 (ug/mL)

Back MDL 0.161 (ug/mL)

LOQ 1.58 (ug/mL)

Compound Methanol

Lower Curve Limit 1.58 (ug/mL)

Upper Curve Limit 3,161 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
M308 H2O RB	042F4301.D	042F4302.D	GC120P155.M	NA	NA	NA	0.790	0.790	0.0	0.790	1	1.00	0.790	ND
M308 SG MB	089B3901.D	089B3902.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
M308 SG LCS	088B3801.D	088B3802.D	GC120P155.M	4.01	4.02	0.1	31.1	31.4	0.5	31.3	1	5.00	156	
													Spike Amount (ug)	198
													Spike Recovery (%)	79.0%
M308 T1R1 WC-LD	038F3701.D	038F3702.D	GC120P155.M	NA	NA	NA	0.790	0.790	0.0	0.790	1	42.0	33.2	ND
													% Difference	NA
M308 T1R1 SG FH-LD	081B3101.D	081B3102.D	GC120P155.M	NA	NA	NA	0.161	0.161	0.0	0.161	1	5.00	0.805	ND
													% Difference	NA
gc120p150 #3-SS	007F0701.D	007F0702.D	GC120P155.M	4.93	4.93	0.0	36.7	38.9	3.0	37.8	1	1.00	37.8	
													Spike Amount (ug)	39.4
													Spike Recovery (%)	96.1%
gc120p150 #3p-SS	056B0601.D	056B0602.D	GC120P155.M	4.01	4.01	0.1	38.5	40.2	2.2	39.4	1	1.00	39.4	
													Spike Amount (ug)	39.4
													Spike Recovery (%)	100%

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags GC/FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs

Custody

Heather Tarjeft received the samples on 7/27/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at ambient temperature in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for 1,3-butadiene, acrolein, acetone, pentane, dichloromethane (methylene chloride), hexane, benzene, trichloroethene, toluene, 1,2-dibromoethane, and tetrachloroethene using the analytical procedures in EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography (40 CFR Part 60, Appendix A).

The standards and samples were analyzed following the procedures specified in section 8.2.1, Integrated Bag Sampling and Analysis.

All samples and standards were introduced directly to the column using an automated multi-port Valco gas sampling valve equipped with a stainless steel loop. The target analytes were referenced to certified gas phase standards.

The Agilent Technologies Model 6890, Gas Chromatograph ("Gummo" S/N US00028451) was equipped with a Flame Ionization Detector and a Restek Rtx-1 30 m x 0.32 mm x 4.0 um column (S/N 869999).

Calibration

The calibration curve is located in the back of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition method gc114p165.M is included in the Calibration Curve Chromatograms section of this report.



Enthalpy Analytical Narrative Summary (continued)

QC Notes

As required by section 8.4.2, Recovery Study for Bag Sampling, a recovery study is performed on a bag sample. The bag sample **TIRI M18 Bag** was spiked at 4:15 PM on 7/27/11. The required spike compounds were added. The recovery efficiency values for these compounds met the method-required limit of between 70 and 130% except for 1,3-butadiene. Therefore 1,3-butadiene results are reported without adjustment. The remaining compounds which had been spiked were adjusted using the calculated recovery efficiency values following equation 18-7 from section 12.8. Pentane, 1,2-dibromoethane, and tetrachloroethene were not spiked and are reported as measured (i.e. without adjustment).

A Laboratory Control Sample (LCS) bag was prepared and analyzed with the samples. The recovery values ranged from 88.1% to 95.4%.

All sample preparation and analytical holding times specified in the method were met.

Reporting Notes

These analytical results are reported on a wet basis. The user of this report should determine the % moisture in the sample and correct the reported value to ppmvd as appropriate.

These analyses met the requirements of the NELAC Standard. Any deviations from the requirements of the reference method or NELAC Standard have been previously noted in the report narrative.

The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	STG
Parameters	EPA Method 18 Bags GC/FPD

Client #	1108-200
Job #	071-87
# Samples	3 Bags

Custody

Heather Tarjeft received the samples on 7/27/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at ambient temperature in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for carbon disulfide using the analytical procedures in EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography (40 CFR Part 60, Appendix A).

All samples and standards were introduced directly to the column using an automated multi-port Valco gas sampling valve equipped with a stainless steel loop. Carbon disulfide was referenced to certified permeation devices.

The Hewlett Packard Model 5890, Series II Plus Gas Chromatograph "Zeppo" (S/N 3235A4448X) was equipped with a Flame Photometric Detector and a Restek Rtx-1 60 m x 0.53 mm x 5.0 um (S/N 663119) column.

Calibration

The calibration curve is included in the Calibration Curve Chromatograms section of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition method FPDTEST2.M is included in the Calibration Curve Chromatograms section of this report.

QC Notes

A spike and recovery study was not performed and the sample results were not adjusted (i.e. reported as measured).



Enthalpy Analytical Narrative Summary

(continued)

Reporting Notes

These analytical results are reported on a wet basis. The user of this report should determine the percent moisture in the sample and correct the reported value to ppmvd as appropriate.

The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bag Cond FID

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

Custody	<p>Heather Tarjeft received the samples on 7/27/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at 6.6°C in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.</p>
Analysis	<p>The samples were analyzed for 1,3-butadiene, pentane, acrolein, acetone, dichloromethane (methylene chloride), hexane, benzene, trichloroethene, toluene, tetrachloroethene, and 1,2-dibromoethane using the analytical procedures in EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography (40 CFR Part 60, Appendix A).</p> <p>The standards and samples were analyzed following the procedures specified in section 8.2.4, Adsorption Tube Procedure.</p> <p>The Agilent Technologies Model 6890N, Gas Chromatograph ("Veronica" S/N US10645052) was equipped with a Flame Ionization Detector and a Restek Rtx-624 105 m x 0.53 mm x 3.0 um column (S/N 1032767).</p>
Calibration	<p>The calibration curve is located in the back of this report and referenced in the Analysis Method column on the Detailed Results page.</p> <p>For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.</p>
Chromatographic Conditions	<p>The acquisition methods gc118p40.M is included in the Calibration Curve Chromatograms section of this report.</p>
QC Notes	<p>Target analytes were not identified above the MDL in the analyses of the lab blank or above the LOQ in the client blank analysis.</p>

Enthalpy Analytical Narrative Summary (continued)

QC Notes (continued)

A matrix spike (MS) was prepared using an aliquot of the sample *T1 R1 Bag Dry Imp*. The recovery values ranged from 67.4% to 116%.

All sample preparation and analytical holding times specified in the method were met.

Reporting Notes

These analyses met the requirements of the NELAC Standard. Any deviations from the requirements of the reference method or NELAC Standard have been previously noted in the report narrative.

The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	JBB
Parameters	EPA Method 18 Bag Cond FPD

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 1 Blank

Custody

Heather Tarjeft received the samples on 7/27/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at 6.6°C in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for carbon disulfide using the analytical procedures in EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography (40 CFR Part 60, Appendix A).

The standards and samples were analyzed following the procedures specified in section 8.2.1, Integrated Bag Sampling and Analysis.

All samples and standards were introduced directly to the column using an automated multi-port Valco gas sampling valve equipped with a stainless steel loop. Carbon disulfide was referenced to certified permeation devices.

The Hewlett Packard Model 5890, Series II Gas Chromatograph ("Oscar" S/N 2938A25721) was equipped with a Flame Photometric Detector and a Restek Stabilwax 30m x 0.53mm x 1.5um column (S/N 1033248).

Calibration

The calibration curve is located in the back of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition method gc116p046.M is included in the Calibration Curve Chromatograms section of this report.



Enthalpy Analytical Narrative Summary

(continued)

QC Notes

Carbon disulfide was not identified above the MDL in the analysis of the lab blank.

A matrix spike (MS) was prepared using an aliquot of the sample ***TI RI Bag Cond (Dry Imp)***. The recovery value was 80.0%.

A second source standard (gc116p46 #3SS) was prepared and used as a Laboratory Control Sample and analyzed with the samples. The recovery value was 108%.

Reporting Notes

These analytical results are reported on a wet basis. The user of this report should determine the percent moisture in the sample and correct the reported value to ppmvd as appropriate.

The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	MGM
Parameters	EPA Method 18 Bags

Client #	1108-200
Job #	0711-81
# Samples	3 Runs

Custody

Heather Tarjeft received the samples on 7/27/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at ambient temperature in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for methane and ethane using the analytical procedures in EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography (40 CFR Part 60, Appendix A). The standards and samples were analyzed following the procedures specified in section 8.2.1, Integrated Bag Sampling and Analysis.

The standards and samples were analyzed following the procedures specified in section 8.2.1, Integrated Bag Sampling and Analysis.

All samples and standards were introduced directly to the column using an automated multi-port Valco gas sampling valve equipped with a stainless steel loop. Methane and ethane were referenced to certified gas phase standards.

The Agilent Technologies Model 6890, Gas Chromatograph ("Gummo" S/N US00028451) was equipped with a Flame Ionization Detector and a Restek Rtx-1 30 m x 0.32 mm x 4.0 um column (S/N 869999).

Calibration

The calibration curve is located in the back of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition method gc114p165.M is included in the Calibration Curve Chromatograms section of this report.



Enthalpy Analytical Narrative Summary (continued)

QC Notes

As required by section 8.4.2, Recovery Study for Bag Sampling, a recovery study is performed on a bag sample. The bag sample T1R1 M18 Bag was spiked at 4:15 PM on 7/27/11. The recovery efficiency values meet the method-required limit of between 70 and 130%. The recovery efficiency values are used to adjust the results following equation 18-7 from section 12.8.

A Laboratory Control Sample (LCS) bag was prepared and analyzed with the samples. The recovery values were 95.2% for methane and 95.7% for ethane.

All sample preparation and analytical holding times specified in the method were met.

Reporting Notes

These analytical results are reported on a wet basis. The user of this report should determine the % moisture in the sample and correct the reported value to ppmvd as appropriate.

These analyses met the requirements of the NELAC Standard. Any deviations from the requirements of the reference method or NELAC Standard have been previously noted in the report narrative.

The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	SJE / CJT
Parameters	EPA Method 18 Adsorbents

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 3 Blanks

Custody

Heather Tarjeft received the samples on 7/28/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at 9.0°C in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for acetonitrile, acrylonitrile methyl tert-butyl ether (MTBE), 2-nitropropane, 2,2,4-trimethylpentane (isooctane), methyl isobutyl ketone (MIBK), chlorobenzene, ethylbenzene, m/p-xylene, styrene, o-xylene, cumene, and nitrobenzene using the analytical procedures in EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography (40 CFR Part 60, Appendix A).

The condensate volumes were measured and an 8 mL aliquot was removed and archived. The remaining volume of sample was extracted by adding 5 mL of carbon disulfide to the containers and shaking by hand for one minute. The raffinate and extract were both analyzed. The results were adjusted for the 8 mL removal by using an aliquot factor.

The SKC XAD-4 (Cat# 226-175) tubes were desorbed in two fractions, all of tube A plus the front half (FH) of tube B and the back half (BH) of tube B. The SKC Charcoal (Cat# 226-16) tube was desorbed in two fractions, front half (FH) and back half (BH). Each fraction was desorbed using 5 mL of carbon disulfide and shaken at 450 rpm for 30 minutes.

The tube fractions were analyzed by using the Hewlett Packard Model 6890, Gas Chromatograph ("Lucy" S/N US00039147), equipped with a Flame Ionization Detector and a Restek Rtx-1 30 m x 0.32 mm x 4.0 um column (S/N 450928).

The raffinate fractions were only analyzed for acrylonitrile, acetonitrile, and 2-nitropropane by using the Hewlett Packard Model 5890, Series II Gas Chromatograph ("Teller" S/N 3033A31174), equipped with a Flame Ionization Detector and a Restek Stabilwax 30 m x 0.32 mm x 0.5 um column (S/N 964070).



Enthalpy Analytical Narrative Summary (continued)

Calibration

The calibration curves are included in the Calibration Curve Chromatograms sections of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition methods gc121p86.M and gc122p042.M are included in the Calibration Curve Chromatograms sections of this report.

QC Notes

As required by section 8.4.3, Recovery Study for Adsorption Tube Sampling, a recovery study is performed for the compounds of interest during the field test. The train collection efficiency (R) is calculated using equations 18-7, 18-8, and 18-9 in EPA Method 18. The reported results have been adjusted for these recovery efficiency values except for acetonitrile. The spike amount and spike results are presented in the Results section of this report.

Laboratory Duplicate (LD) analyses were performed using aliquots of the samples *M18 T1R1 Spk Cond CS2*, *M18 T1R1 Spk XAD FH*, *M18 T1R1 Spk CT FH*, and *M18 T1R1 Spk Cond Raff*. The non-raffinate LD and initial results differed by less than 14% when the analyte was identified above the MDL. The raffinate LD and initial results differed by 20.2% for acetonitrile and 33.8% for acrylonitrile.

The aqueous lab and field blank analyses and method blanks did not identify any target analytes above the MDL.

Prior to sample collection, seven aqueous spikes were prepared with the acetonitrile and acrylonitrile. The spike solution and two spikes were retained by the lab for use in preparing Laboratory Control Samples (LCS). The spiked values are presented in the Results section of this report. The two retained aqueous LCS (*LCS-1* and *LCS-2*) were brought to 10 mL, extracted, and the raffinate analyzed with the samples. The raffinate recovery values were 88.0% and 86.5% for acetonitrile and 91.7% and 93.4% for acrylonitrile.

Enthalpy Analytical Narrative Summary (continued)

QC Notes (continued)

Prior to sample collection, seven XAD-4 tubes were spiked with the analytes of interest (excluding acetonitrile and acrylonitrile). The spike solution and two spikes were retained by the lab for use in preparing Laboratory Control Samples (LCS). The spiked values are presented in the Results section of this report. One XAD-4 LCS was analyzed with the samples, with recovery values ranging from 84.5% to 97.0%.

Reporting Notes

The m- and p- xylene isomers are inseparable and indistinguishable with the equipment and conditions used for this project. These two isomers have virtually identical responses. Therefore the instrument was calibrated using p-xylene. Any results shown are accurate representations of the total of m-xylene and p-xylene present in the sample, though specifics about these two individual isomers cannot be given. The sample chromatograms are labeled as p-xylene, but the associated results tables have been changed to show the combined isomers.

The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical Narrative Summary

Company	Pace Analytical Services
Analyst	CJT / KLM
Parameters	EPA Method 308

Client #	1108-200
Job #	0711-81
# Samples	3 Runs, 2 Blanks

Custody

Heather Tarjeft received the samples on 7/27/11 after being relinquished by Pace Analytical Services, Inc. The samples were received at 6.6°C in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for methanol using the analytical procedures in EPA Method 308, Procedure for Determination of Methanol Emission from Stationary Sources (40 CFR Part 63, Appendix A).

The samples were analyzed following the procedures in Section 11.0 Analytical Procedures.

The impinger samples were received in vials with zero headspace and a volume of 42.0 mL.

Each SKC Silica Gel (Cat# 226-22) tube was desorbed in two fractions, front half (FH) and back half (BH). Each of the fractions were desorbed using 5 mL of a 3% n-propanol in deionized water solution and shaken at 450 rpm for 30 minutes.

The Hewlett Packard Model 5890, Series II Gas Chromatograph ("Penn" S/N 2750A17269) was equipped with two Flame Ionization Detectors and two Restek Stabilwax 30 m x 0.53 mm x 2.0 um columns (S/N 810087 and S/N 808560).

Calibration

The calibration curve is located in the back of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition method gc120p153.m is included in the Calibration Curve Chromatograms section of this report.



Enthalpy Analytical Narrative Summary

(continued)

QC Notes

Methanol was not identified above the MDL in the analyses of the method blanks and field blanks.

A Laboratory Control Sample (LCS) tube was prepared and analyzed with the samples. The recovery value was 79.0%.

Second source standards (gc120p150 #3-SS and gc120p150 #3p-SS) were prepared and used as Laboratory Control Samples and analyzed with the samples. The recovery values were 96.1% and 100%.

Laboratory Duplicate (LD) samples were prepared using aliquots of the samples *M308 T1R1 WC* and *M308 T1R1 SG FH*. Methanol was not identified above the MDL in either analysis.

All sample preparation and analytical holding times specified in the method were met.

Reporting Notes

These analyses met the requirements of the NELAC Standard. Any deviations from the requirements of the reference method and/or the NELAC Standard have been previously noted in this narrative.

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. data reports, unless specifically noted otherwise.

- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** following a value indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).
- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two extra spikes are prepared. The extras (randomly chosen) are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection and/or sample transport.

General Reporting Notes

(continued)

- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an “M”. There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations. The peak was *not integrated* by the software “**NI**”, the peak was *integrated incorrectly* by the software “**II**” or the *wrong peak* was integrated by the software “**WP**”. These codes will accompany the analyst’s manual integration stamp placed next to the compound name.

Sample Custody



Invoice Information:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☒ Other USEPA

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC

☐ OH ☐ SC ☐ WI ☐ OTHER _____

☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER

Additional Comments:

*"RUSH"

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
JAMES TROUBENAU	7-26-14		Rebecca P. [Signature]	7/27/14	8:57 AM	G.6.0C	Y/N	Y/N	Y/N
						Penck	Y/N	Y/N	Y/N
			Bag temp = Ambient			9:42	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed (MM/DD/YY) _____

FHR Fine Bend LLC
 Page 3 of 3
 8/3/14
 Reel
 Cooley
 Sealed Cooler
 Samples Intact



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2
925967

Section A

Required Client Information:

Company: **PACE ANALYTICAL**
Address: **1700 ELM ST**
MEMPHIS, TN 38114
Email To: **JAMES.THOMPSON@PACEANAL.COM**
Phone: **612 759 7510** Fax: **612 607 6444**
Requested Due Date/TAT: **RUSH**

Section B

Required Project Information:

Report To: **JAMES THOMPSON**
Copy To: **TERRY BOWEN**
Purchase Order No.: **1108-200**
Project Name: **FHR-FUR**
Project Number: **1108-200**

Section C

Invoice Information:

Attention: **CS RICHES**
Company Name: **PACE FIELD**
Address: **1700 ELM ST**
Pace Quote Reference: _____
Pace Project Manager: _____
Pace Profile #: _____

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ Other: **USEPA**

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER _____

ITEM #	Section D Required Client Information										Valid Matrix Codes MATRIX DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Filtered (Y/N)	Requested Analysis:	Pace Project Number Lab I.D.
	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE														COMPOSITE START		COMPOSITE END/GRAB				Unpreserved Wt. H2O2 H2SO4 HNO3 HCl HAc H2O2 H2SO												

Additional Comments:

* RUSH

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
JAMES THOMPSON	7-26-11	8:00 PM	TERRY BOWEN	7-26-11	12:15 PM	Y/N Y/N Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

TERRY BOWEN

SIGNATURE of SAMPLER:

Terry Bowen

DATE Signed (MM/DD/YY)

7-26-11

FHR Pine Bend
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Temp. ☐ °C ☐ °F
Residual Chlorine ☐ Y ☐ N
Custody Sealed Cooler ☐ Y ☐ N
Samples Intact ☐ Y ☐ N

Pace Analytical
FSD 1108-200

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

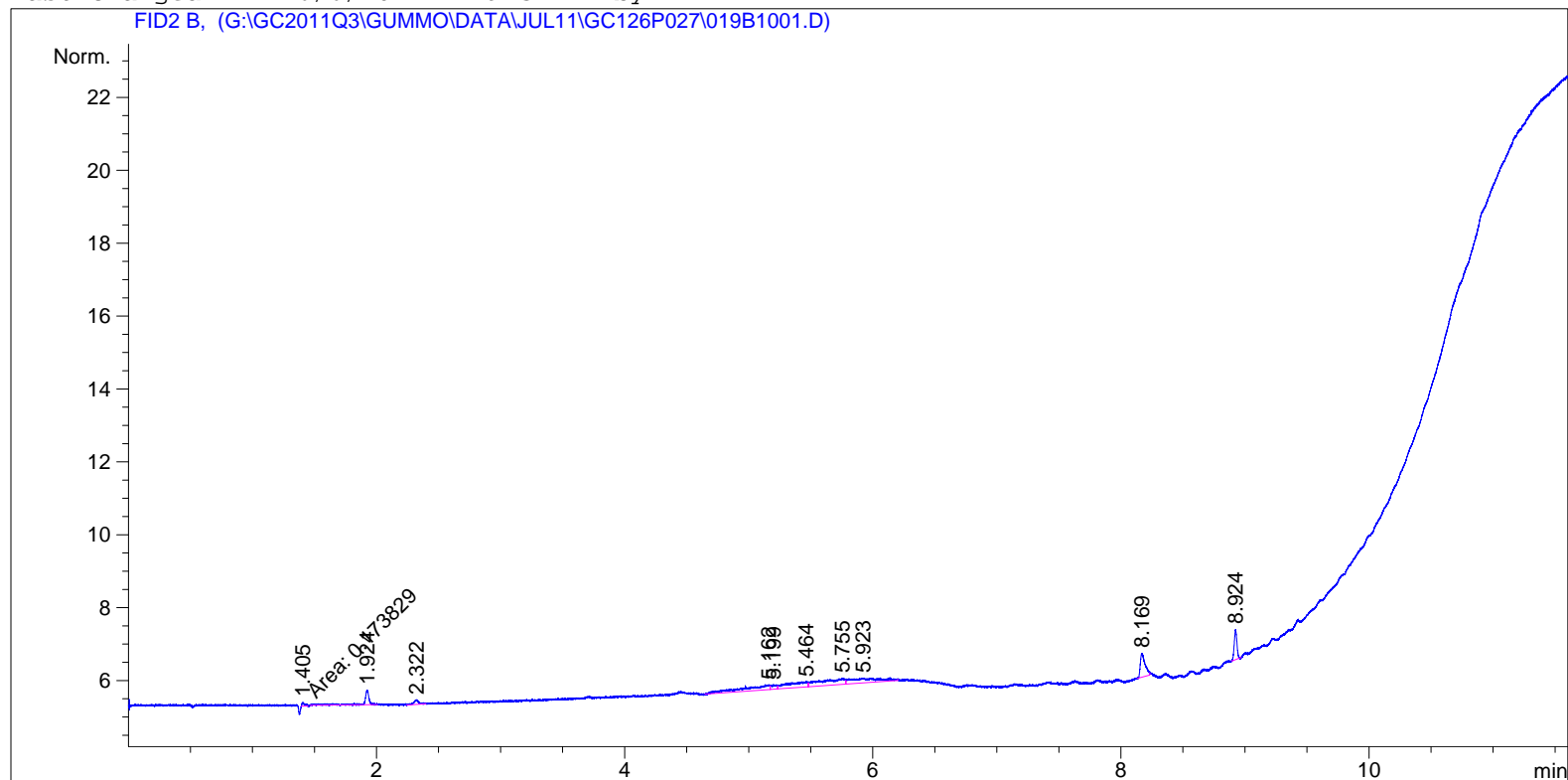
ALL0020rev.3,31Mar05

Sample Chromatograms

=====

Acq. Operator	: MGM	Seq. Line	: 10
Acq. Instrument	: Gummo online	Location	: Vial 19
Injection Date	: 27-Jul-11, 12:04:36	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

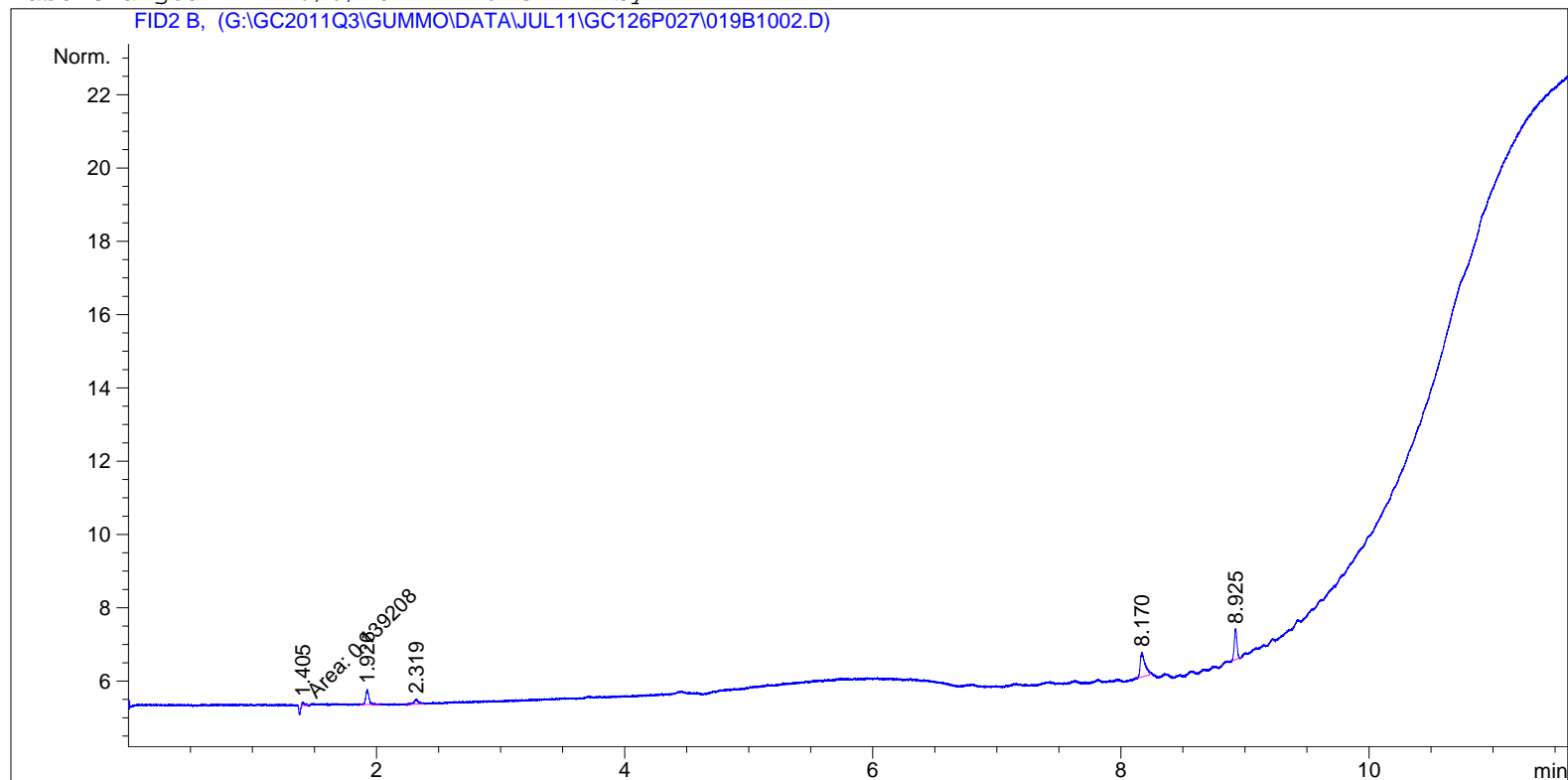
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***


```
=====
Acq. Operator   : MGM                      Seq. Line :   10
Acq. Instrument : Gummo online             Location  : Vial 19
Injection Date  : 27-Jul-11, 12:20:58      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:49:09 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

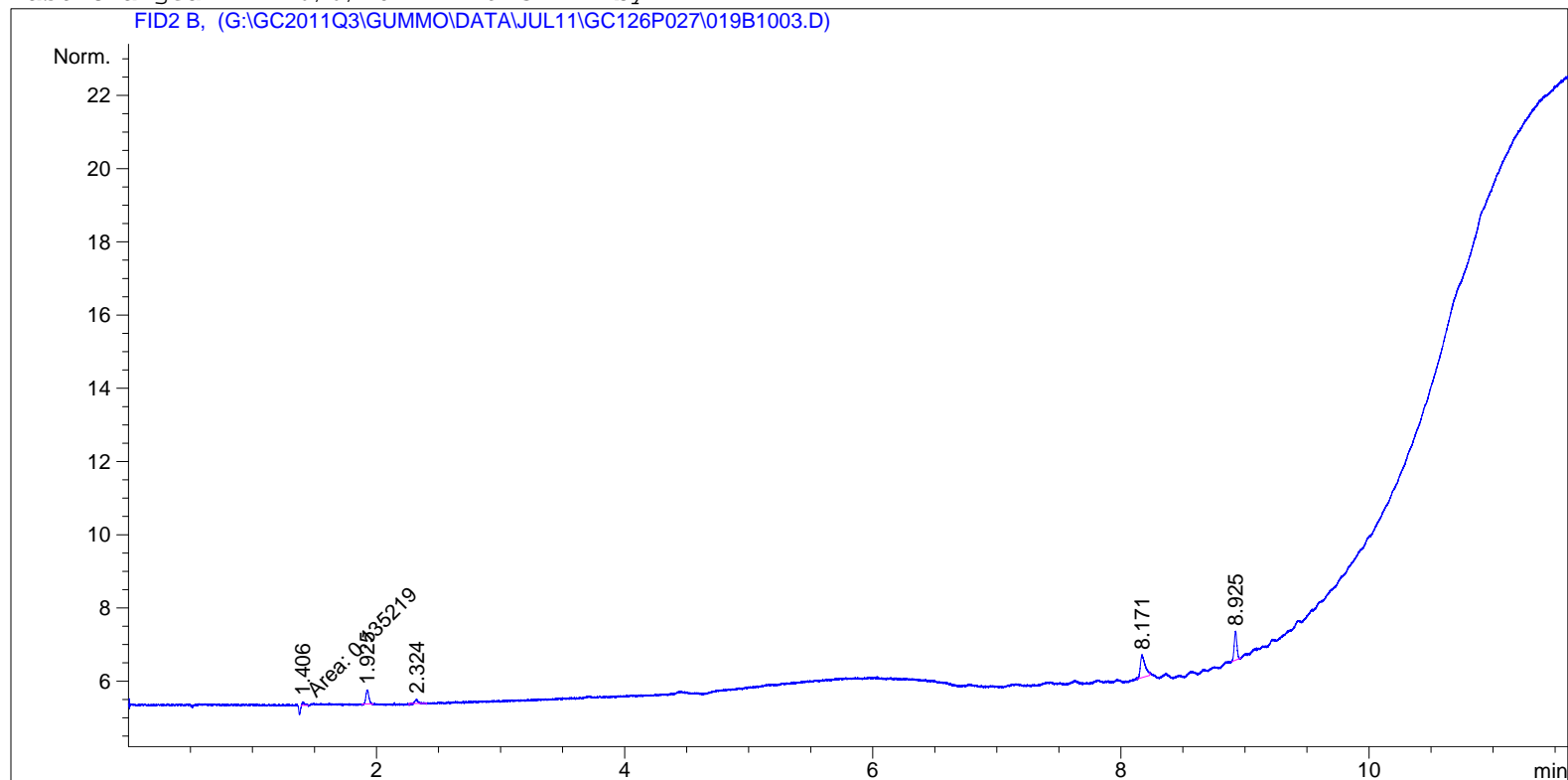
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : MGM                      Seq. Line :   10
Acq. Instrument : Gummo online             Location  : Vial 19
Injection Date  : 27-Jul-11, 12:37:05      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

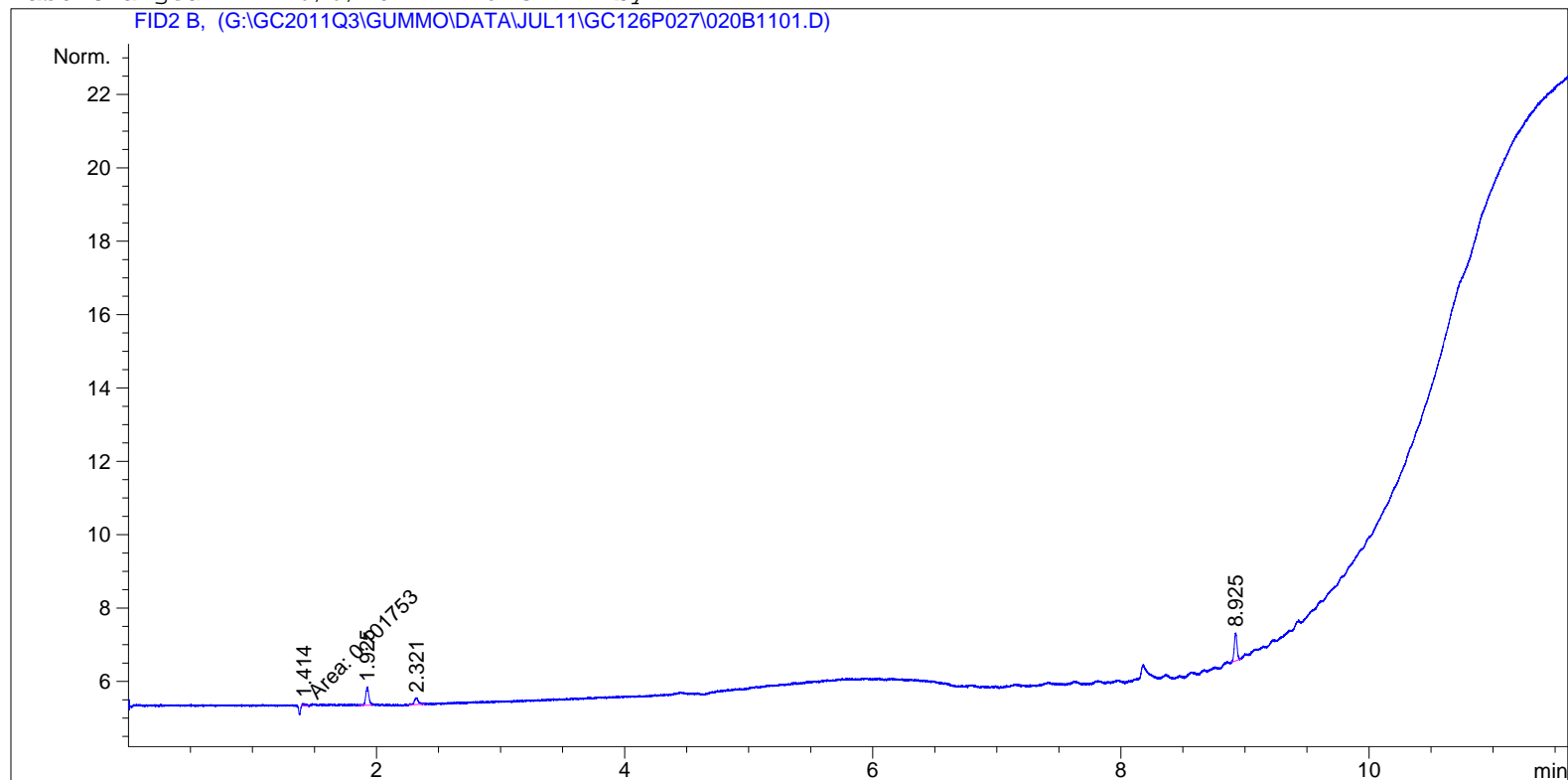
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : MGM                      Seq. Line :   11
Acq. Instrument : Gummo online              Location  : Vial 20
Injection Date  : 27-Jul-11, 12:53:20       Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      :      Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier:     :      1.0000
Dilution:       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

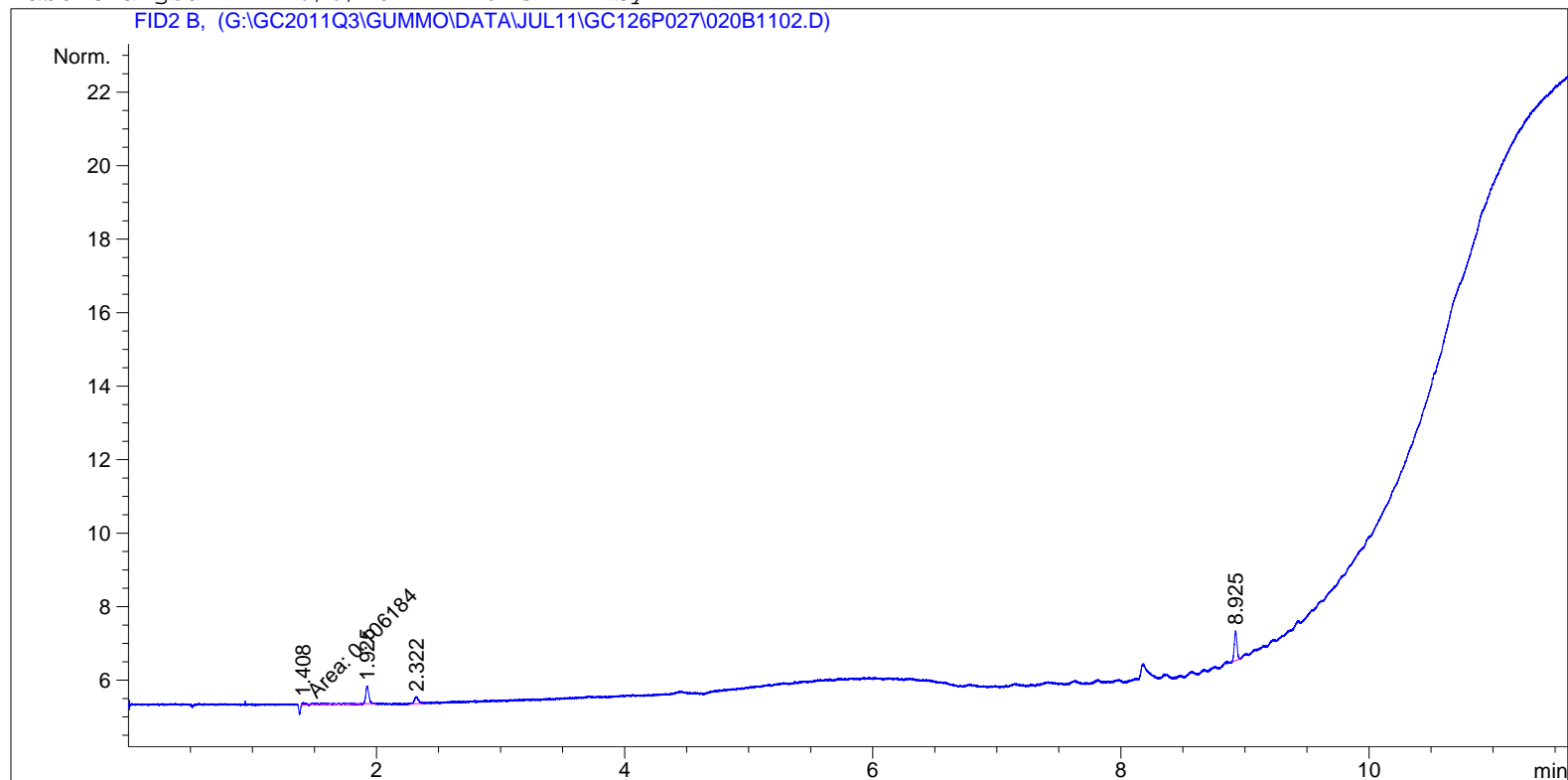
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : MGM                      Seq. Line :   11
Acq. Instrument : Gummo online             Location  : Vial 20
Injection Date  : 27-Jul-11, 13:09:36      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

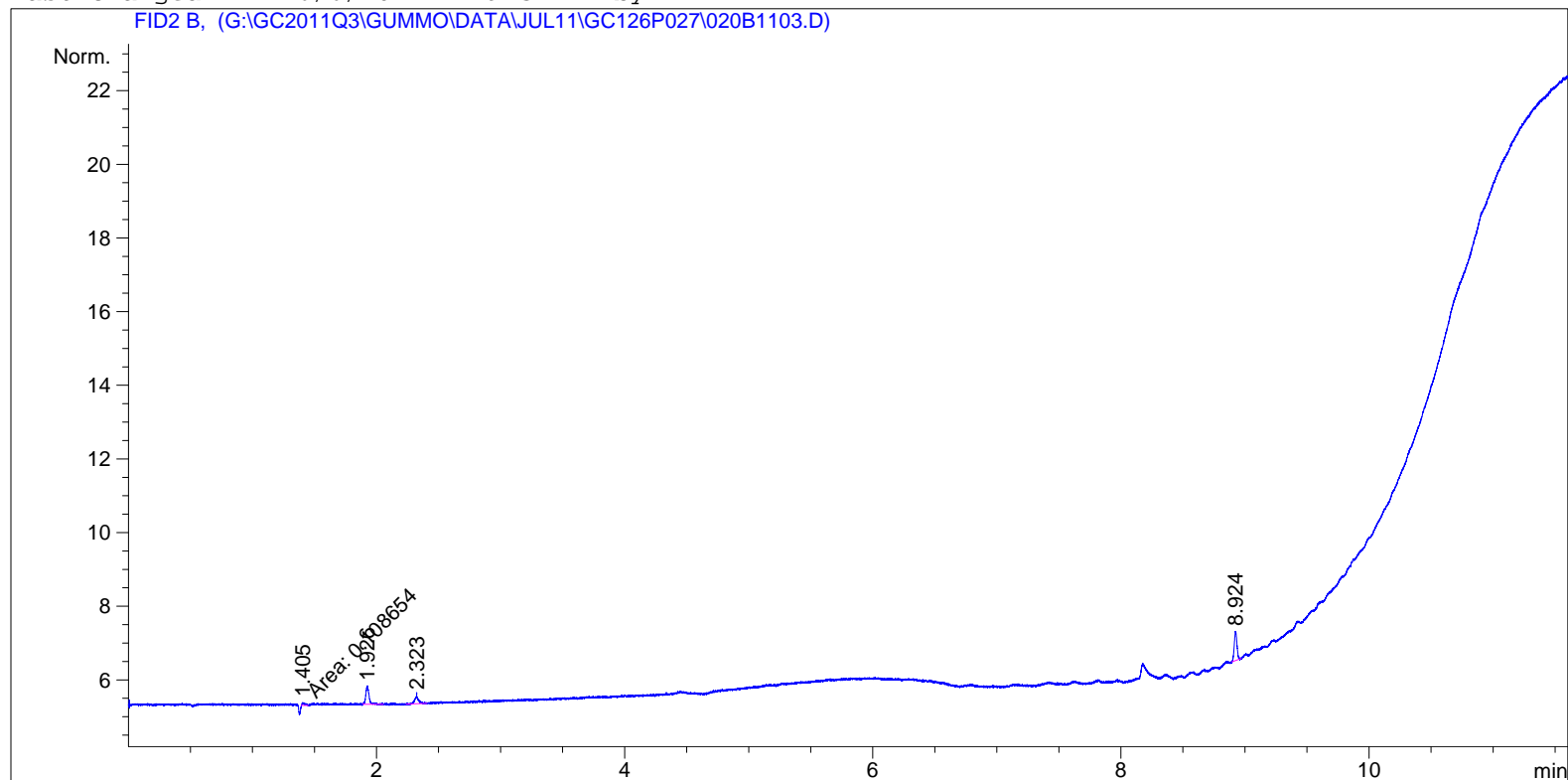
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***


```
=====
Acq. Operator   : MGM                      Seq. Line :   11
Acq. Instrument : Gummo online              Location  : Vial 20
Injection Date  : 27-Jul-11, 13:25:46       Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

FHR Pine Bend LLC
Page B-617 of 1576

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

2 Warnings or Errors :

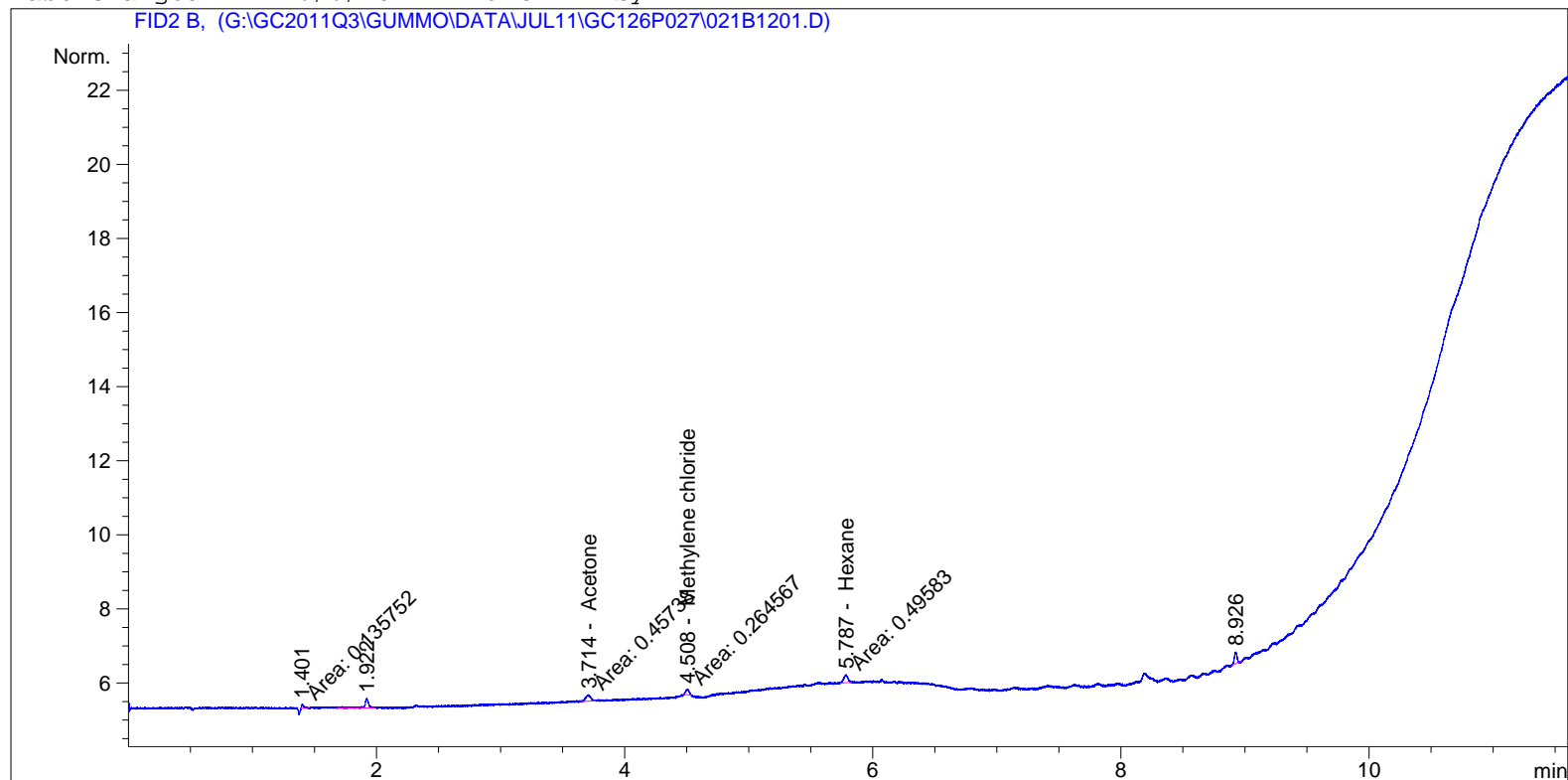
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

=====

Acq. Operator	: MGM	Seq. Line	: 12
Acq. Instrument	: Gummo online	Location	: Vial 21
Injection Date	: 27-Jul-11, 13:42:00	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.714	MM	4.57380e-1	2.79611	1.27888	-	Acetone Manual Int. "II" (MGM)
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	MM	2.64567e-1	6.32534	1.67348	-	Methylene chloride Manual Int. "II" (MGM)
5.787	MM	4.95830e-1	9.89631e-1	4.90688e-1	-	Hexane Manual Int. "II" (MGM)
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				3.44305		

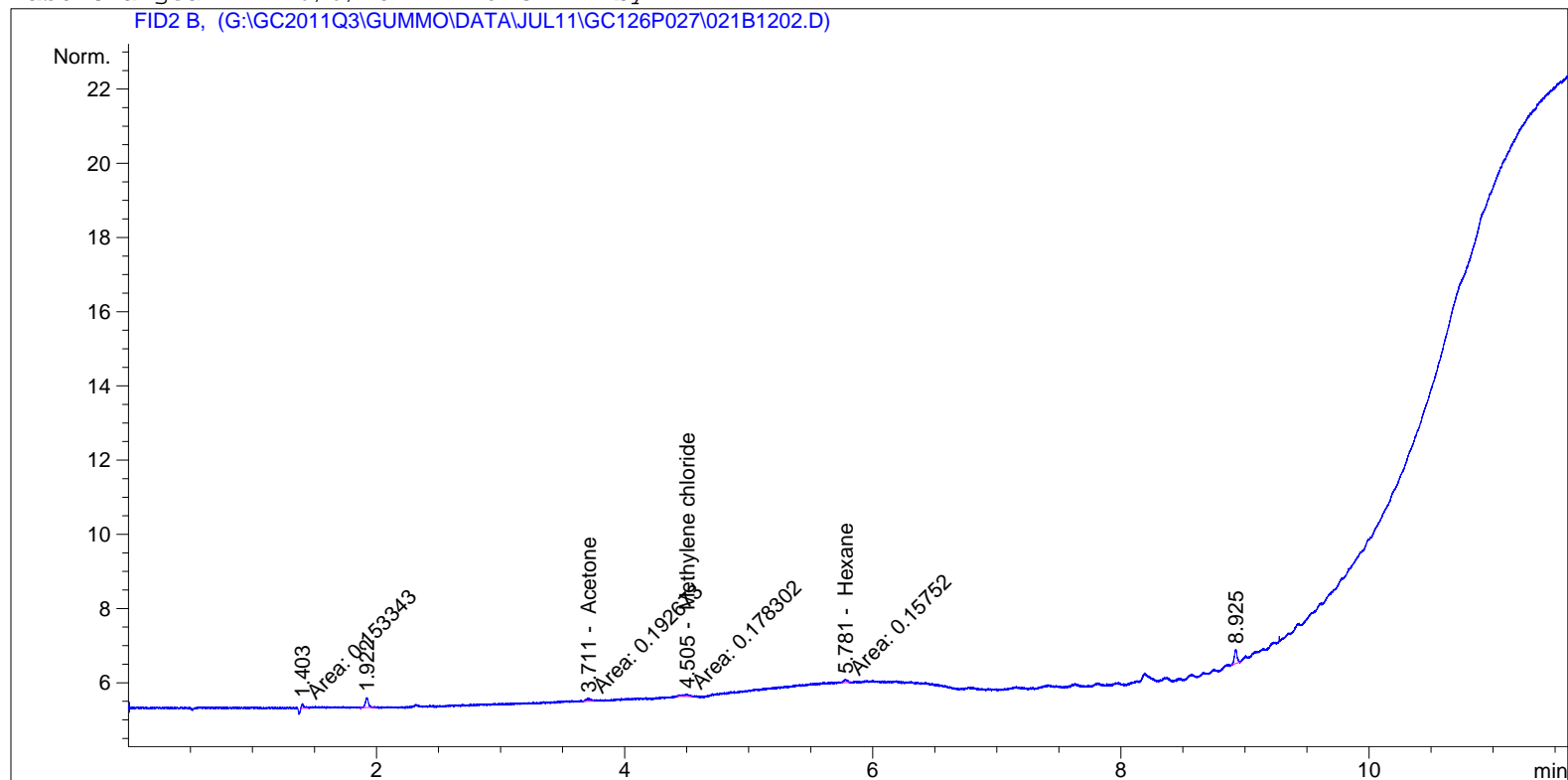
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : MGM                               Seq. Line :   12
Acq. Instrument : Gummo online                     Location  : Vial 21
Injection Date  : 27-Jul-11, 13:58:22              Inj       :    2
                                                Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier:     : 1.0000
Dilution:       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.711	MM	1.92673e-1	2.79611	5.38735e-1		Acetone Manual Int. "II" (MGM)
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.505	MM	1.78302e-1	6.32534	1.12782		Methylene chloride Manual Int. "II" (MGM)
5.781	MM	1.57520e-1	9.89631e-1	1.55886e-1		Hexane Manual Int. "II" (MGM)
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				1.82244		

2 Warnings or Errors :

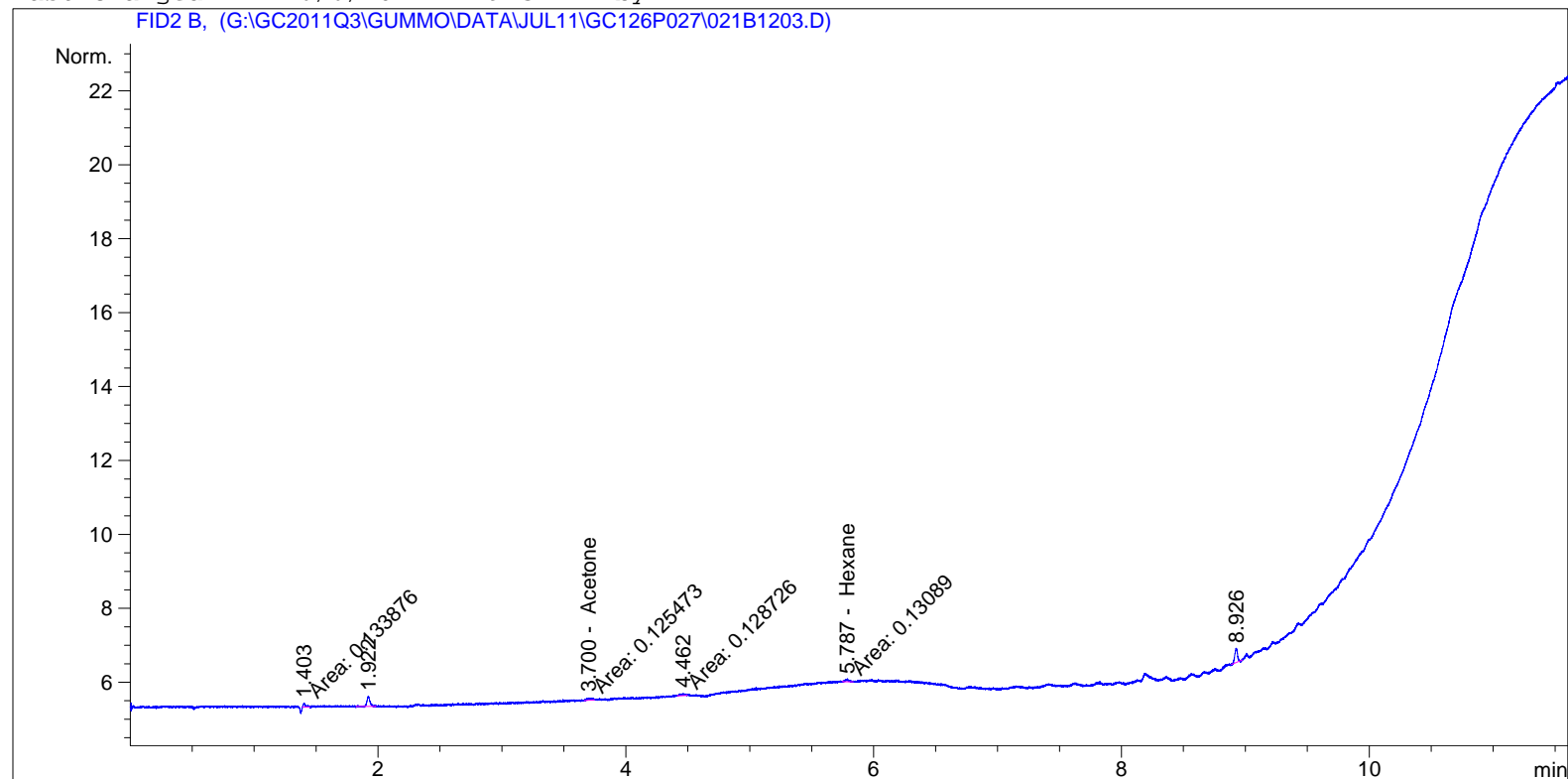
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: MGM	Seq. Line	: 12
Acq. Instrument	: Gummo online	Location	: Vial 21
Injection Date	: 27-Jul-11, 14:14:43	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	MM	1.25473e-1	2.79611	3.50836e-1	-	Acetone Manual Int. "II" (MGM)
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride Manual Int. "II" (MGM)
5.787	MM	1.30890e-1	9.89631e-1	1.29533e-1	-	Hexane Manual Int. "II" (MGM)
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

Sample Name: T1R3 M18 Bag 0711-81

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				4.80369e-1		

2 Warnings or Errors :

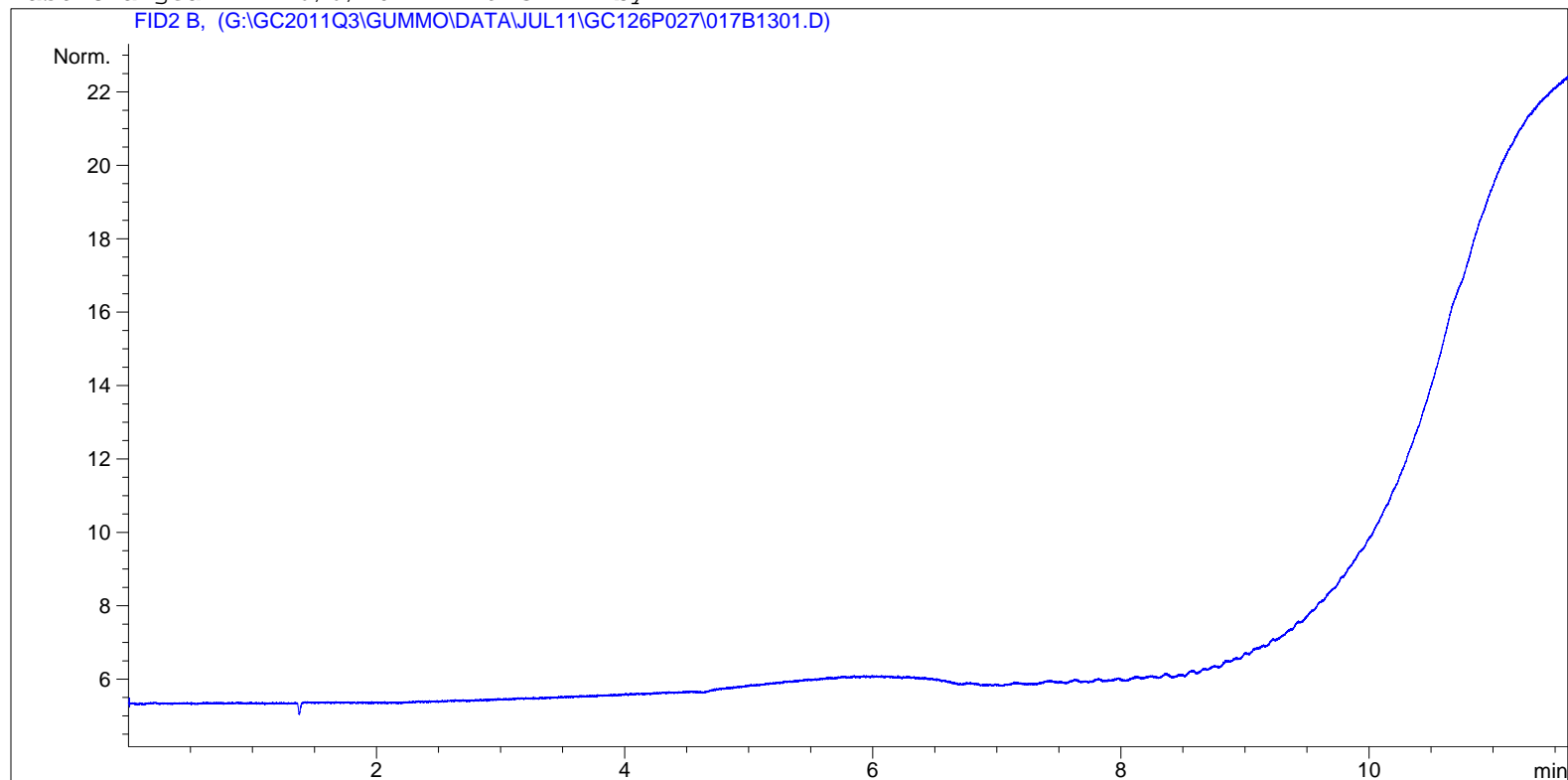
Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : MGM                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 17
Injection Date  : 27-Jul-11, 14:30:24       Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

FHR Pine Bend LLC
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Sample Name: N2 Blank

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

2 Warnings or Errors :

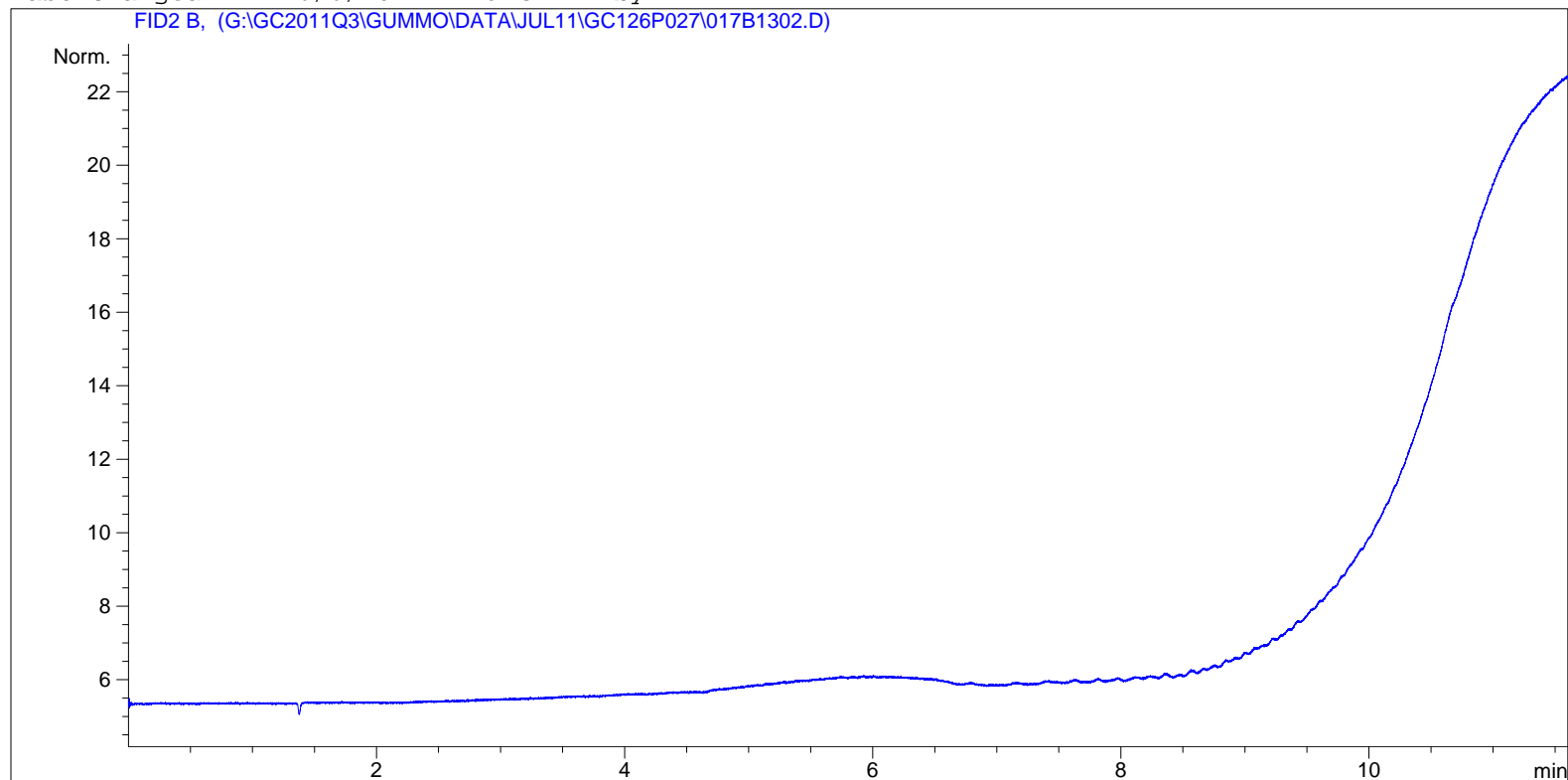
Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : MGM                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 17
Injection Date  : 27-Jul-11, 14:46:04       Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:49:09 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

Sample Name: N2 Blank

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

2 Warnings or Errors :

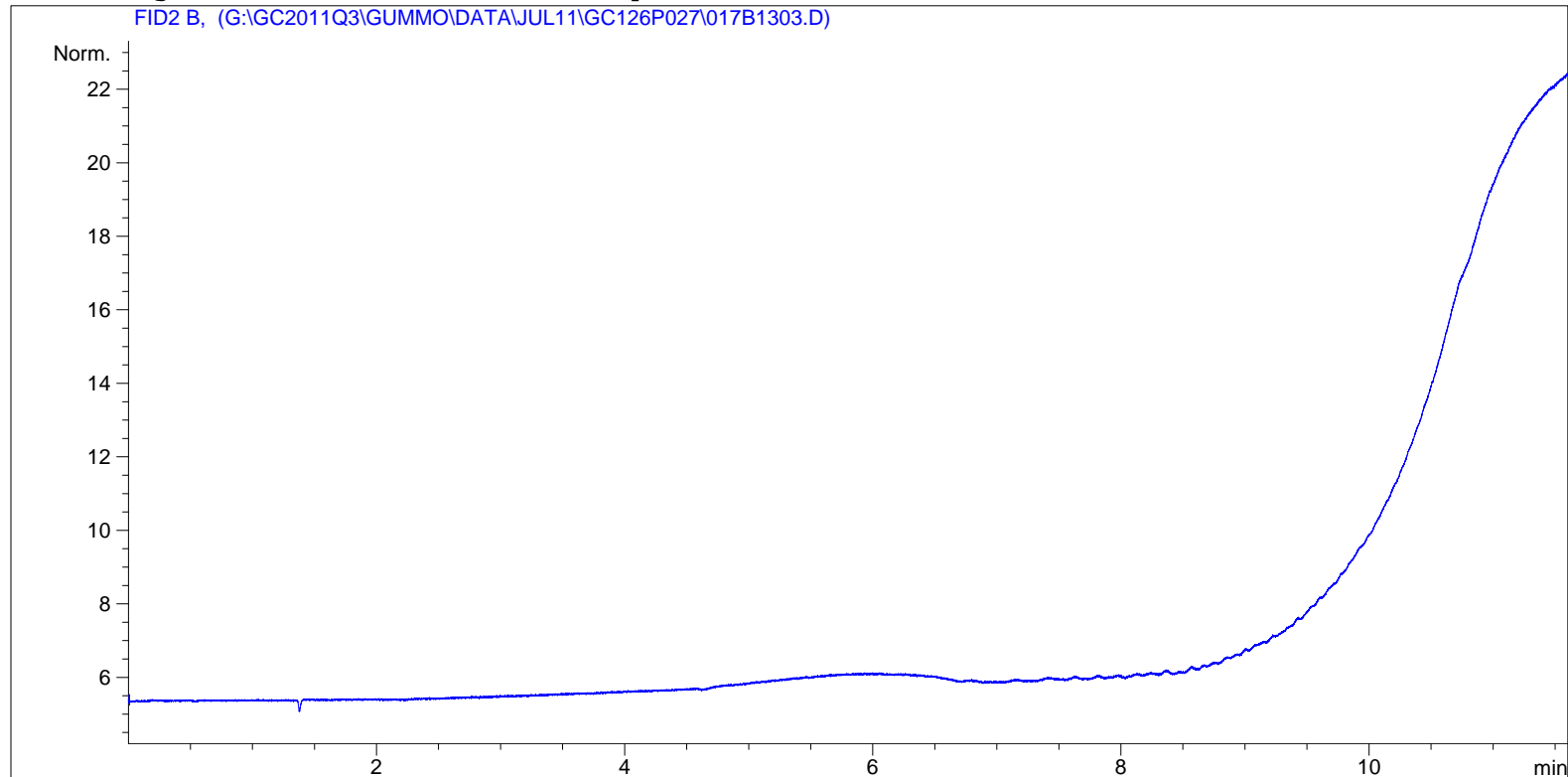
Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : MGM                      Seq. Line :   13
Acq. Instrument : Gummo online             Location  : Vial 17
Injection Date  : 27-Jul-11, 15:01:46      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	-	-	-	-	-	1-3 Butadiene
3.453	-	-	-	-	-	Acetonitrile
3.591	-	-	-	-	-	Acrolein
3.700	-	-	-	-	-	Acetone
4.107	-	-	-	-	-	Acrylonitrile
4.191	-	-	-	-	-	Pentane
4.508	-	-	-	-	-	Methylene chloride
5.781	-	-	-	-	-	Hexane
6.497	-	-	-	-	-	Benzene
6.890	-	-	-	-	-	Trichloroethene
7.565	-	-	-	-	-	Toluene
7.836	-	-	-	-	-	1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-	-	Tetrachloroethene

Sample Name: N2 Blank

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
Totals :				0.00000		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.620		0.0000	0.00000	0.00000	1-3 Butadiene
2	3.453		0.0000	0.00000	0.00000	Acetonitrile
3	3.591		0.0000	0.00000	0.00000	Acrolein
4	3.700		0.0000	0.00000	0.00000	Acetone
5	4.107		0.0000	0.00000	0.00000	Acrylonitrile
6	4.191		0.0000	0.00000	0.00000	Pentane
7	4.508		0.0000	0.00000	0.00000	Methylene chloride
8	5.781		0.0000	0.00000	0.00000	Hexane
9	6.497		0.0000	0.00000	0.00000	Benzene
10	6.890		0.0000	0.00000	0.00000	Trichloroethene
11	7.565		0.0000	0.00000	0.00000	Toluene
12	7.836		0.0000	0.00000	0.00000	1,2 Dibromoethane
13	7.981		0.0000	0.00000	0.00000	Tetrachloroethene
Totals :				0.00000	0.0000	

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

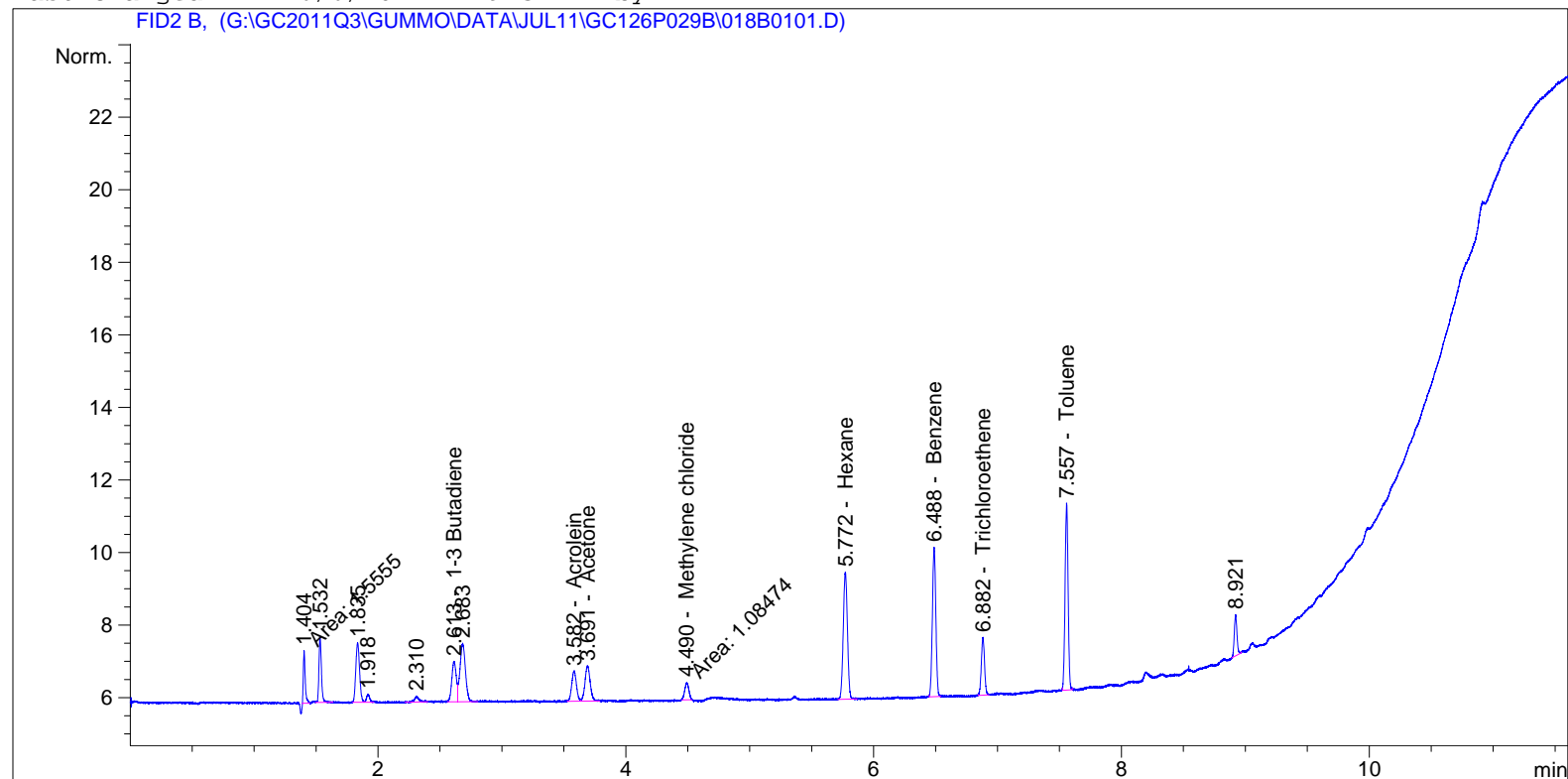
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: MGM	Seq. Line	: 1
Acq. Instrument	: Gummo online	Location	: Vial 18
Injection Date	: 29-Jul-11, 11:54:33	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.613	BV	2.81361	1.38908	3.90834		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.582	BV	2.20434	2.89408	6.37956		Acrolein
3.691	VB	2.82939	2.57593	7.28832		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.490	MM	1.08474	5.55018	6.02048		Methylene chloride
5.772	BB	8.25219	8.63946e-1	7.12945		Hexane
6.488	BB	7.98366	8.67934e-1	6.92929		Benzene
6.882	BB	2.87409	2.62608	7.54759		Trichloroethene
7.557	BB	8.78051	8.34543e-1	7.32771		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

Manual Int. "II" (MGM)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				52.53073		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

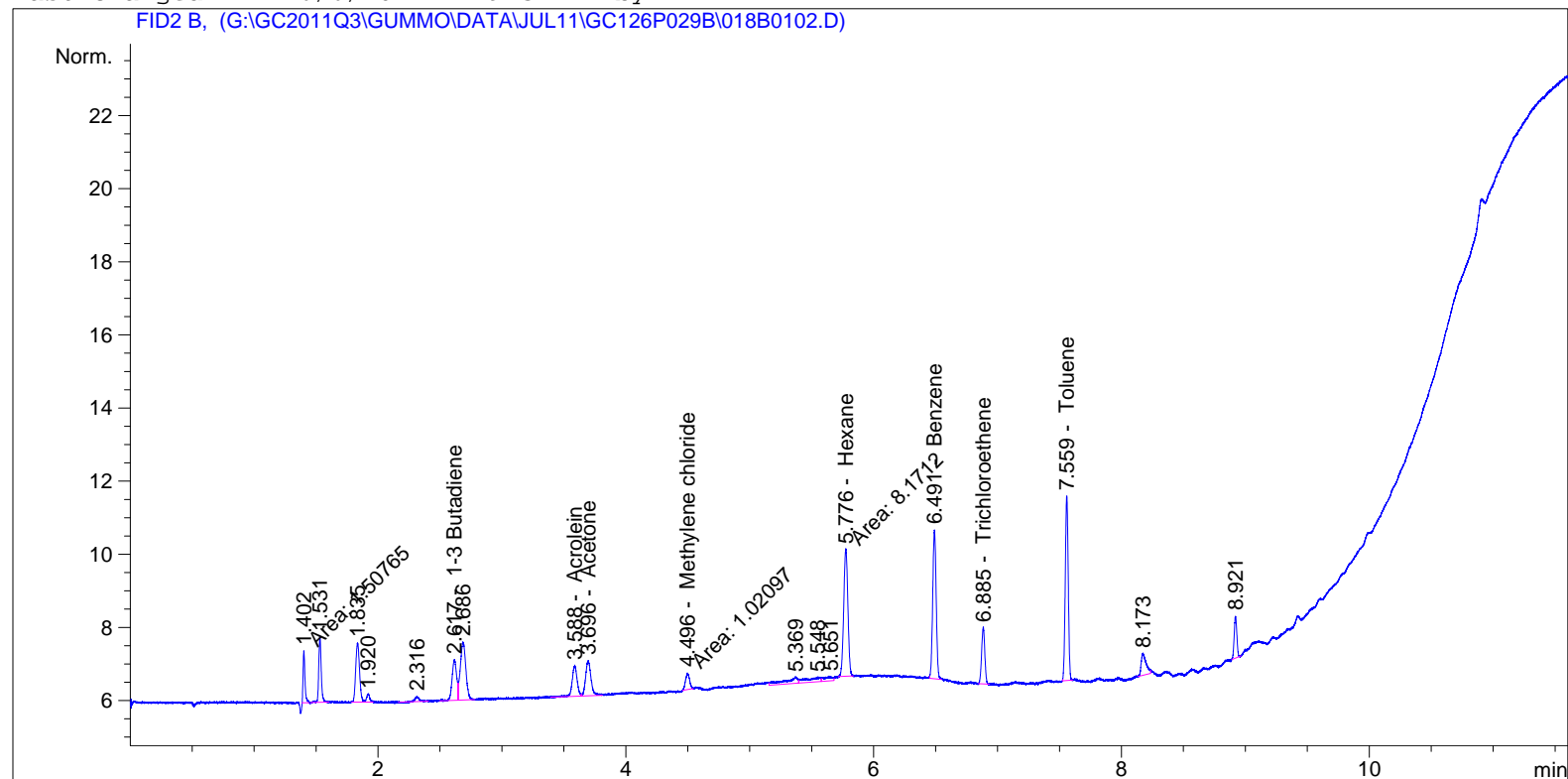
Sample Name: T1R1 M18 Bag S&R 0711-81

```

=====
Acq. Operator   : MGM                               Seq. Line :    1
Acq. Instrument : Gummo online                     Location  : Vial 18
Injection Date  : 29-Jul-11, 12:10:32              Inj       :    2
                                                Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BV	2.80216	1.38983	3.89453		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.588	BV	2.32276	2.88200	6.69421		Acrolein
3.696	VB	2.90094	2.56666	7.44571		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.496	MM	1.02097	5.57917	5.69618		Methylene chloride
5.776	MM	8.17120	8.64518e-1	7.06415		Hexane
6.491	BB	7.95047	8.68185e-1	6.90247		Benzene
6.885	BB	2.76227	2.64554	7.30768		Trichloroethene
7.559	BB	8.40554	8.41433e-1	7.07270		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

Manual Int. "II" (MGM)

Manual Int. "II" (MGM)

FHR Pine Bend LLC
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Sample Name: T1R1 M18 Bag S&R 0711-81

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				52.07762		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

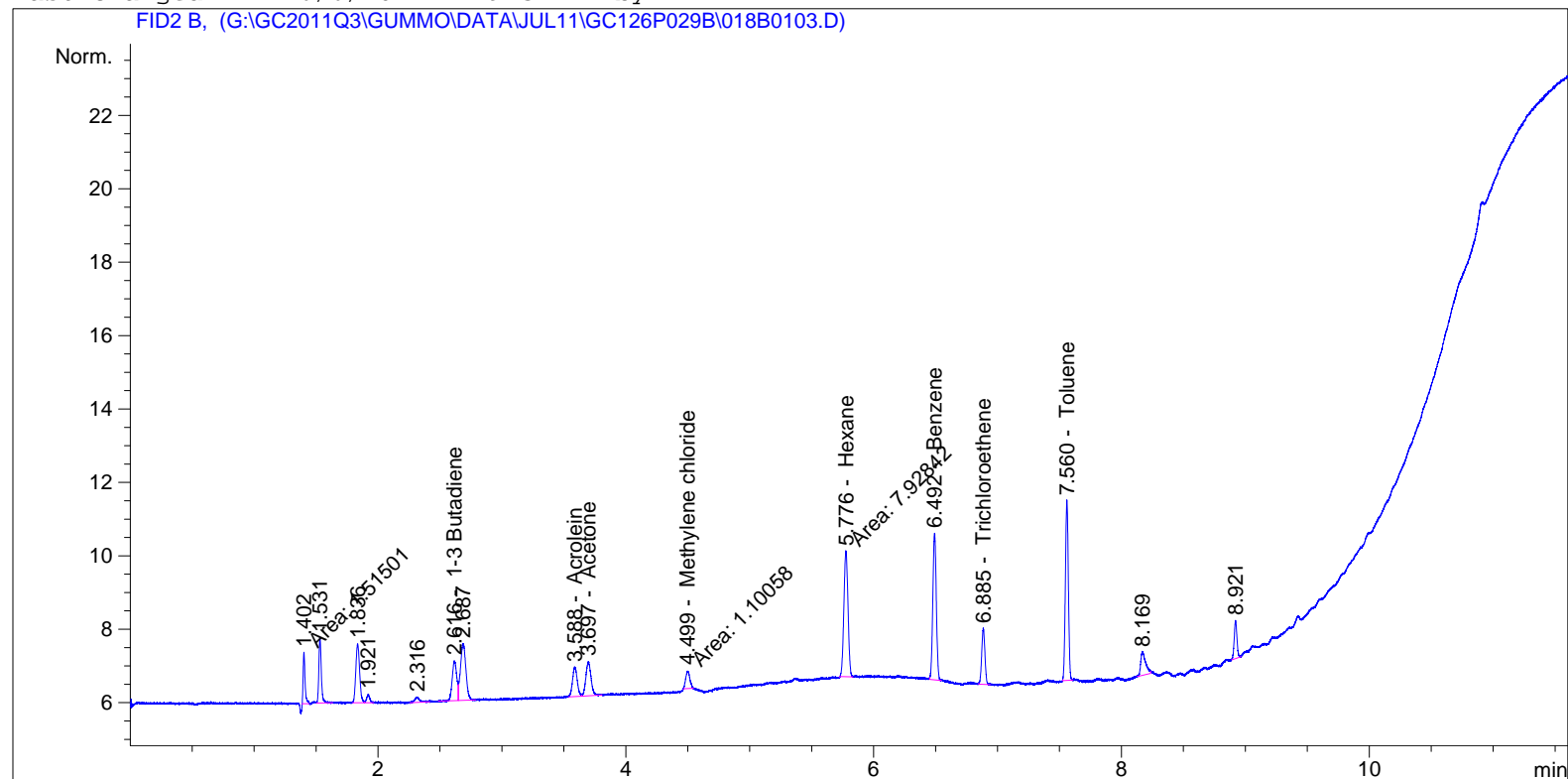
Sample Name: T1R1 M18 Bag S&R 0711-81

```

=====
Acq. Operator   : MGM                               Seq. Line :    1
Acq. Instrument : Gummo online                     Location  : Vial 18
Injection Date  : 29-Jul-11, 12:26:41              Inj       :    3
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.616	BV	2.74313	1.39379	3.82334		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.588	BV	2.11319	2.90431	6.13735		Acrolein
3.697	VB	2.67291	2.59795	6.94408		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.499	MM	1.10058	5.54350	6.10108		Methylene chloride
5.776	MM	7.92842	8.66303e-1	6.86842		Hexane
6.492	BB	7.79860	8.69359e-1	6.77979		Benzene
6.885	BB	2.73032	2.65139	7.23914		Trichloroethene
7.560	BB	8.21613	8.45152e-1	6.94388		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

Manual Int. "II" (MGM)

Manual Int. "II" (MGM)

FHR Pine Bend LLC
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Sample Name: T1R1 M18 Bag S&R 0711-81

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				50.83706		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

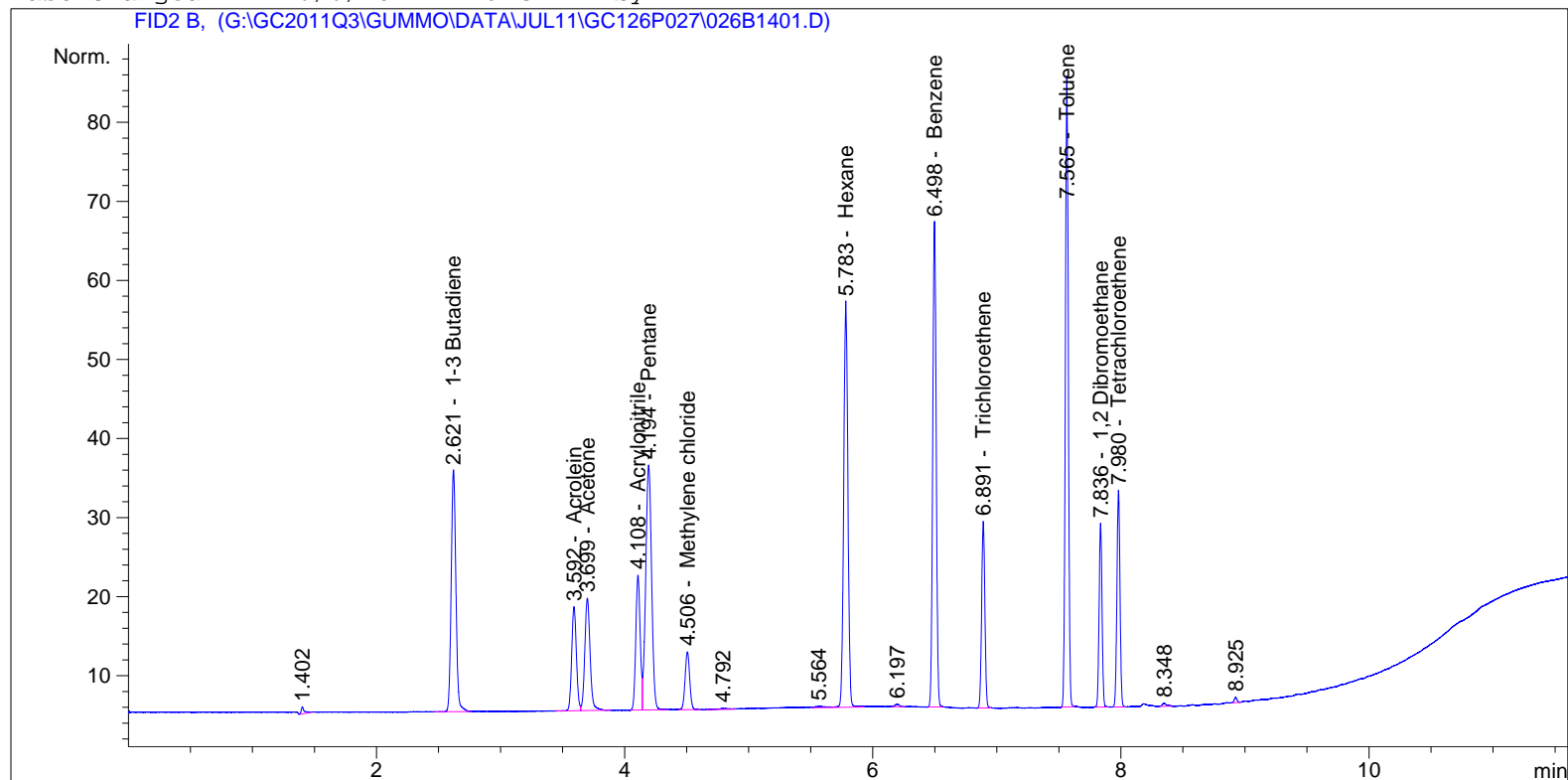
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: MGM	Seq. Line	: 14
Acq. Instrument	: Gummo online	Location	: Vial 26
Injection Date	: 27-Jul-11, 15:18:08	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.621	BV	79.91720	1.21244	96.89476		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.592	BV	34.57130	2.67221	92.38185		Acrolein
3.699	VB	41.98892	2.22518	93.43304		Acetone
4.108	BV	42.28471	2.03619	86.09986		Acrylonitrile
4.194	VB	102.04734	9.56791e-1	97.63795		Pentane
4.506	BB	18.79872	5.11274	96.11290		Methylene chloride
5.783	VB	121.22955	8.10160e-1	98.21533		Hexane
6.498	BB	119.70205	8.11891e-1	97.18497		Benzene
6.891	BB	43.11213	2.17745	93.87466		Trichloroethene
7.565	BB	134.87613	6.90154e-1	93.08537		Toluene
7.836	BB	38.31960	2.36718	90.70952		1,2 Dibromoethane
7.980	BB	47.30383	1.97874	93.60178		Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				1129.23198		

2 Warnings or Errors :

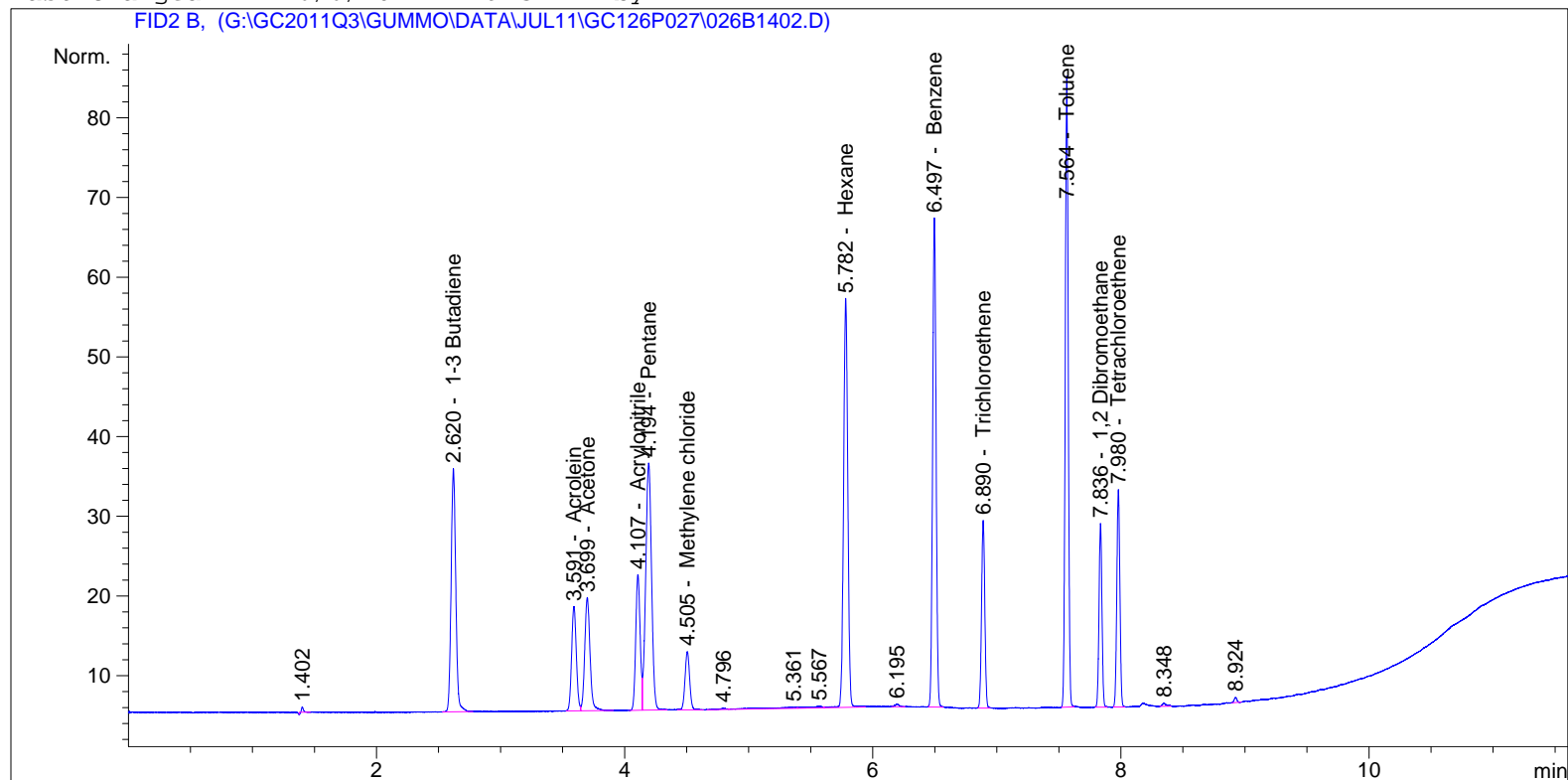
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: MGM	Seq. Line	: 14
Acq. Instrument	: Gummo online	Location	: Vial 26
Injection Date	: 27-Jul-11, 15:34:20	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	BB	79.59797	1.21247	96.50977		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.591	BV	34.55920	2.67222	92.34971		Acrolein
3.699	VB	42.07340	2.22513	93.61889		Acetone
4.107	VV	42.25808	2.03621	86.04638		Acrylonitrile
4.194	VB	101.96044	9.56794e-1	97.55511		Pentane
4.505	BB	18.88975	5.11261	96.57585		Methylene chloride
5.782	VV	121.40588	8.10154e-1	98.35750		Hexane
6.497	BB	119.54932	8.11896e-1	97.06158		Benzene
6.890	BB	43.06296	2.17749	93.76916		Trichloroethene
7.564	BB	134.57185	6.90177e-1	92.87843		Toluene
7.836	BB	38.20461	2.36726	90.44009		1,2 Dibromoethane
7.980	BB	47.17701	1.97880	93.35367		Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				1128.51613		

2 Warnings or Errors :

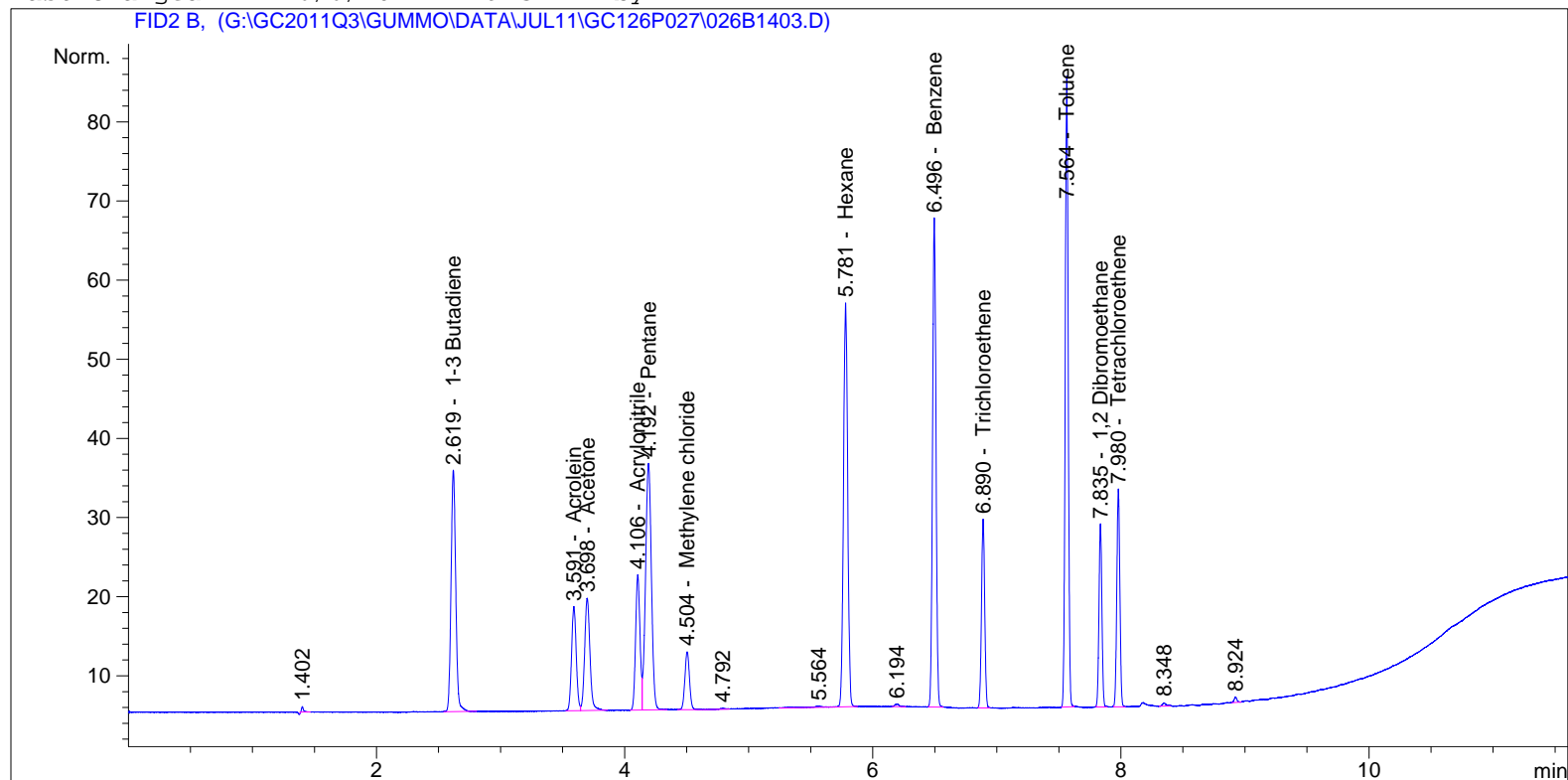
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: MGM	Seq. Line	: 14
Acq. Instrument	: Gummo online	Location	: Vial 26
Injection Date	: 27-Jul-11, 15:50:37	Inj	: 3
		Inj Volume	: External
Acq. Method	: G:\GC2011Q2\GUMMO\METHODS\GC114P165.M		
Last changed	: 11/15/2010 3:12:59 PM by tbo		
Analysis Method	: G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M		
Last changed	: 6/6/2011 4:49:32 PM by KAM		

FID2 B, (G:\GC2011Q3\GUMMO\DATA\JUL11\GC126P027\026B1403.D)



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.619	BB	79.83131	1.21245	96.79118		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.591	BV	34.56423	2.67222	92.36307		Acrolein
3.698	VB	41.91335	2.22523	93.26680		Acetone
4.106	BV	42.21415	2.03624	85.95813		Acrylonitrile
4.192	VB	102.25557	9.56784e-1	97.83645		Pentane
4.504	BB	18.90483	5.11259	96.65254		Methylene chloride
5.781	VB	120.45757	8.10185e-1	97.59294		Hexane
6.496	BB	119.91169	8.11884e-1	97.35433		Benzene
6.890	BB	43.14317	2.17743	93.94125		Trichloroethene
7.564	BB	134.91722	6.90151e-1	93.11331		Toluene
7.835	BB	38.24867	2.36723	90.54333		1,2 Dibromoethane
7.980	BB	47.33081	1.97872	93.65455		Tetrachloroethene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
----- ----- ----- ----- ----- -- -----						
Totals :				1129.06788		

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Calibration Curve Chromatograms

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : 6/6/2011 4:49:09 PM

Rel. Reference Window : 0.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 0.000 %
 Abs. Non-ref. Window : 0.050 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Quadratic (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
 Signal 2: FID2 B,

RetTime [min]	Lvl Sig	Amount [ppm]	Area	Amt/Area	Ref Grp Name
2.620	2 80	2.57000	1.73700	1.47957	1-3 Butadiene
	81	4.99000	3.59493	1.38807	
	82	10.28000	8.13800	1.26321	
	83	25.70000	20.34834	1.26300	
	84	102.80000	83.80799	1.22661	
	85	257.00000	222.15141	1.15687	
3.453	2 41	4.85400	1.15460	4.20405	Acetonitrile
	42	10.00000	2.72201	3.67376	
	43	25.00000	6.79330	3.68009	
	44	100.00000	28.03901	3.56646	
	45	250.00000	70.78018	3.53206	
3.591	2 80	2.57000	8.03270e-1	3.19942	Acrolein
	81	4.99000	1.55505	3.20891	
	82	10.28000	3.71165	2.76966	
	83	25.70000	9.27803	2.76999	
	84	102.80000	38.36533	2.67950	
	85	257.00000	101.07550	2.54265	
3.700	2 81	4.99000	1.75846	2.83771	Acetone
	82	10.28000	4.33995	2.36869	
	83	25.70000	10.99442	2.33755	
	84	102.80000	45.20877	2.27389	
	85	257.00000	118.56614	2.16757	
4.107	2 81	4.97100	1.87515	2.65098	Acrylonitrile
	82	10.24000	4.66113	2.19689	
	83	25.60000	11.90857	2.14971	
	84	102.40000	49.37942	2.07374	
	85	257.00000	129.61155	1.97513	

RetTime [min]	Lvl Sig	Amount [ppm]	Area	Amt/Area	Ref Grp Name
4.191	2 80	2.57000	2.39945	1.07108	Pentane
	81	4.99000	4.59405	1.08619	
	82	10.28000	10.34747	9.93480e-1	
	83	25.70000	26.06314	9.86067e-1	
	84	102.80000	107.20813	9.58883e-1	
	85	257.00000	282.44813	9.09902e-1	
4.508	2 80	2.57000	4.20799e-1	6.10743	Methylene chloride
	81	4.99000	8.06924e-1	6.18398	
	82	10.28000	2.02343	5.08048	
	83	25.70000	4.87173	5.27534	
	84	102.80000	19.78841	5.19496	
	85	257.00000	51.96278	4.94585	
5.781	2 80	2.57000	2.69331	9.54216e-1	Hexane
	81	4.99000	5.19826	9.59936e-1	
	82	10.28000	12.42061	8.27656e-1	
	83	25.70000	30.55459	8.41117e-1	
	84	102.80000	125.95523	8.16163e-1	
	85	257.00000	332.35309	7.73274e-1	
6.497	2 80	2.56000	2.72188	9.40527e-1	Benzene
	81	4.97100	5.02133	9.89976e-1	
	82	10.24000	12.06254	8.48909e-1	
	83	25.60000	30.63082	8.35760e-1	
	84	102.40000	126.87513	8.07093e-1	
	85	256.00000	332.67322	7.69524e-1	
6.890	2 81	4.97100	1.64281	3.02591	Trichloroethene
	82	10.24000	4.29742	2.38283	
	83	25.60000	11.08450	2.30953	
	84	102.40000	46.05923	2.22322	
	85	256.00000	120.63905	2.12203	
7.565	2 81	4.97100	5.24351	9.48028e-1	Toluene
	82	10.24000	13.47014	7.60200e-1	
	83	25.60000	35.11275	7.29080e-1	
	84	102.40000	145.96796	7.01524e-1	
	85	256.00000	379.78746	6.74061e-1	
7.836	2 81	4.99000	1.70474	2.92714	1,2 Dibromoethane
	82	10.28000	4.13848	2.48401	
	83	25.70000	10.51291	2.44461	
	84	102.80000	42.89871	2.39634	
	85	257.00000	109.29550	2.35142	
7.981	2 81	4.99000	1.97946	2.52088	Tetrachloroethene
	82	10.28000	4.87139	2.11028	
	83	25.70000	12.42854	2.06782	
	84	102.80000	51.13319	2.01044	
	85	257.00000	132.23401	1.94352	

1 Warnings or Errors :

Warning : Cal. table open and changed while report was generated.

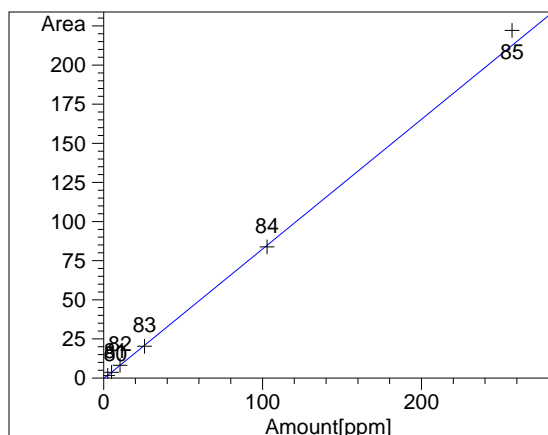
=====
Peak Sum Table
=====

No Entries in table
=====

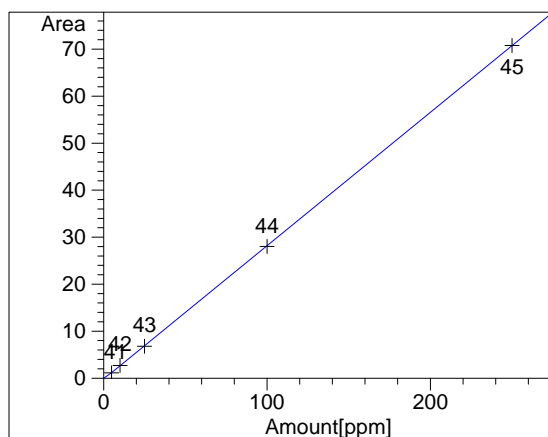
=====

Calibration Curves

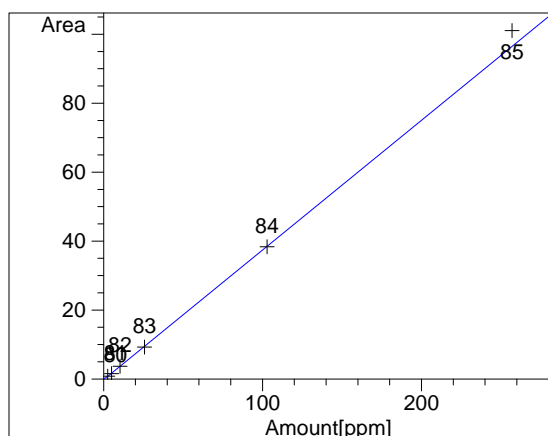
=====



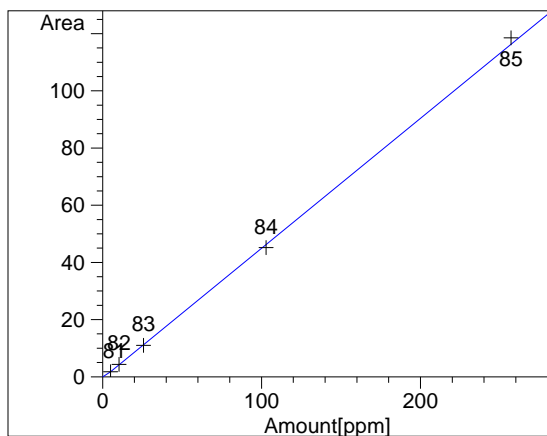
1-3 Butadiene at exp. RT: 2.620
 FID2 B,
 Correlation: 0.99943
 Residual Std. Dev.: 4.77265
 Formula: $y = mx + b$
 m: 8.29192e-1
 b: -4.27151e-1
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 80 : 1
 Level 81 : 0.265256
 Level 82 : 0.0625
 Level 83 : 0.01
 Level 84 : 0.000625
 Level 85 : 0.0001



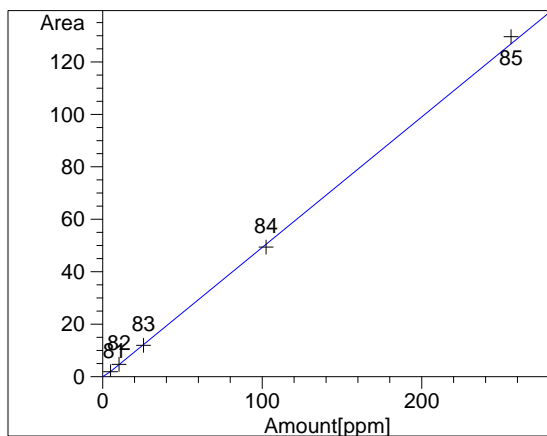
Acetonitrile at exp. RT: 3.453
 FID2 B,
 Correlation: 0.99974
 Residual Std. Dev.: 0.11567
 Formula: $y = mx + b$
 m: 2.83946e-1
 b: -2.06709e-1
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 41 : 1
 Level 42 : 0.235613
 Level 43 : 0.037698
 Level 44 : 0.002356
 Level 45 : 0.000377



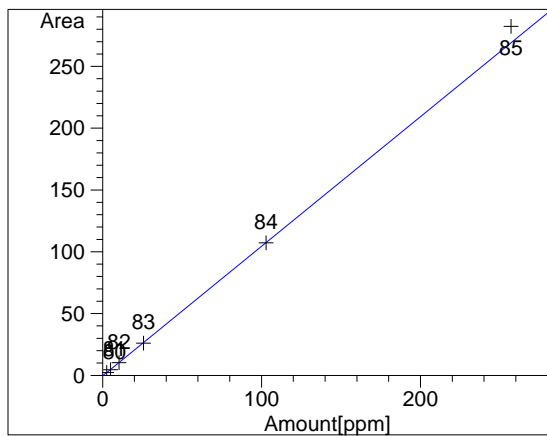
Acrolein at exp. RT: 3.591
 FID2 B,
 Correlation: 0.99873
 Residual Std. Dev.: 2.27913
 Formula: $y = mx + b$
 m: 3.76350e-1
 b: -1.96601e-1
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 80 : 1
 Level 81 : 0.265256
 Level 82 : 0.0625
 Level 83 : 0.01
 Level 84 : 0.000625
 Level 85 : 0.0001



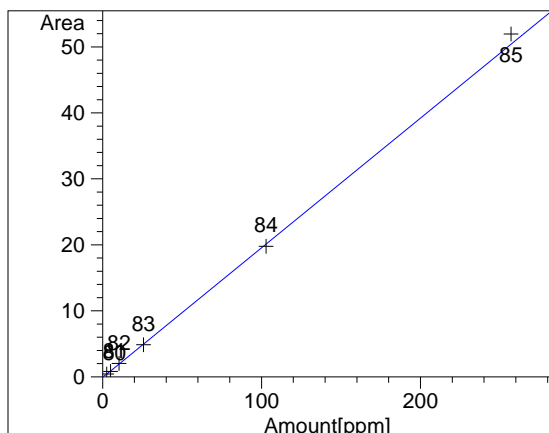
Acetone at exp. RT: 3.700
FID2 B,
Correlation: 0.99955
Residual Std. Dev.: 1.42427
Formula: $y = mx + b$
m: 4.54578e-1
b: -4.83722e-1
x: Amount
y: Area
Calibration Level Weights:
Level 81 : 1
Level 82 : 0.235621
Level 83 : 0.037699
Level 84 : 0.002356
Level 85 : 0.000377



Acrylonitrile at exp. RT: 4.107
FID2 B,
Correlation: 0.99959
Residual Std. Dev.: 1.70050
Formula: $y = mx + b$
m: 4.97819e-1
b: -5.77407e-1
x: Amount
y: Area
Calibration Level Weights:
Level 81 : 1
Level 82 : 0.235661
Level 83 : 0.037706
Level 84 : 0.002357
Level 85 : 0.000377



Pentane at exp. RT: 4.191
FID2 B,
Correlation: 0.99906
Residual Std. Dev.: 6.62290
Formula: $y = mx + b$
m: 1.04900
b: -3.74831e-1
x: Amount
y: Area
Calibration Level Weights:
Level 80 : 1
Level 81 : 0.265256
Level 82 : 0.0625
Level 83 : 0.01
Level 84 : 0.000625
Level 85 : 0.0001



Methylene chloride at exp. RT: 4.508

FID2 B,

Correlation: 0.99839

Residual Std. Dev.: 0.78593

Formula: $y = mx + b$ m: $1.96620e-1$ b: $-9.90117e-2$

x: Amount

y: Area

Calibration Level Weights:

Level 80 : 1

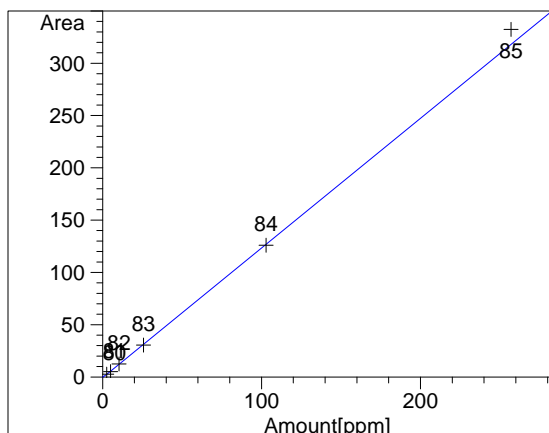
Level 81 : 0.265256

Level 82 : 0.0625

Level 83 : 0.01

Level 84 : 0.000625

Level 85 : 0.0001



Hexane at exp. RT: 5.781

FID2 B,

Correlation: 0.99878

Residual Std. Dev.: 7.11821

Formula: $y = mx + b$

m: 1.24034

b: $-5.90743e-1$

x: Amount

y: Area

Calibration Level Weights:

Level 80 : 1

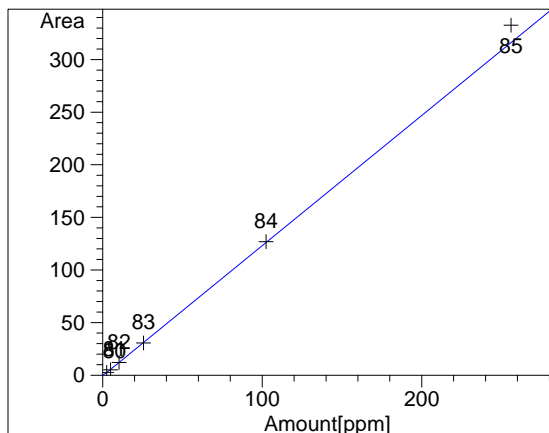
Level 81 : 0.265256

Level 82 : 0.0625

Level 83 : 0.01

Level 84 : 0.000625

Level 85 : 0.0001



Benzene at exp. RT: 6.497

FID2 B,

Correlation: 0.99808

Residual Std. Dev.: 8.21092

Formula: $y = mx + b$

m: 1.23780

b: $-5.93406e-1$

x: Amount

y: Area

Calibration Level Weights:

Level 80 : 1

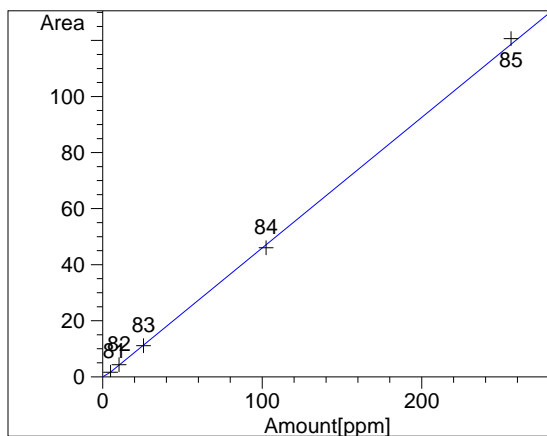
Level 81 : 0.265212

Level 82 : 0.0625

Level 83 : 0.01

Level 84 : 0.000625

Level 85 : 0.0001



Trichloroethene at exp. RT: 6.890

FID2 B,

Correlation: 0.99953

Residual Std. Dev.: 1.28587

Formula: $y = mx + b$

m: 4.66112e-1

b: -6.43926e-1

x: Amount

y: Area

Calibration Level Weights:

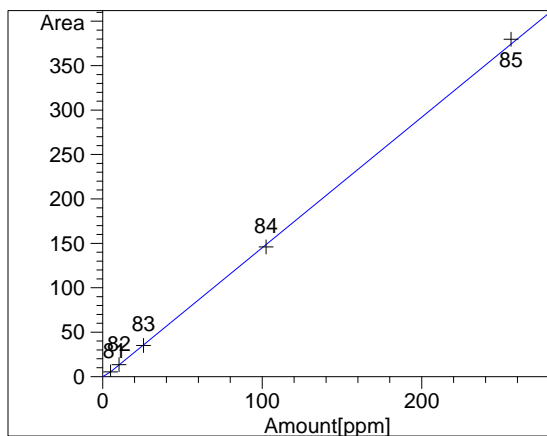
Level 81 : 1

Level 82 : 0.235661

Level 83 : 0.037706

Level 84 : 0.002357

Level 85 : 0.000377



Toluene at exp. RT: 7.565

FID2 B,

Correlation: 0.99971

Residual Std. Dev.: 3.46582

Formula: $y = mx + b$

m: 1.47037

b: -1.99395

x: Amount

y: Area

Calibration Level Weights:

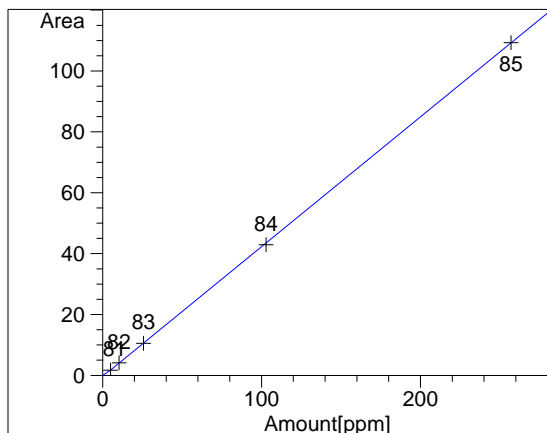
Level 81 : 1

Level 82 : 0.235661

Level 83 : 0.037706

Level 84 : 0.002357

Level 85 : 0.000377



1,2 Dibromoethane at exp. RT: 7.836

FID2 B,

Correlation: 0.99971

Residual Std. Dev.: 0.34805

Formula: $y = mx + b$

m: 4.26790e-1

b: -3.94359e-1

x: Amount

y: Area

Calibration Level Weights:

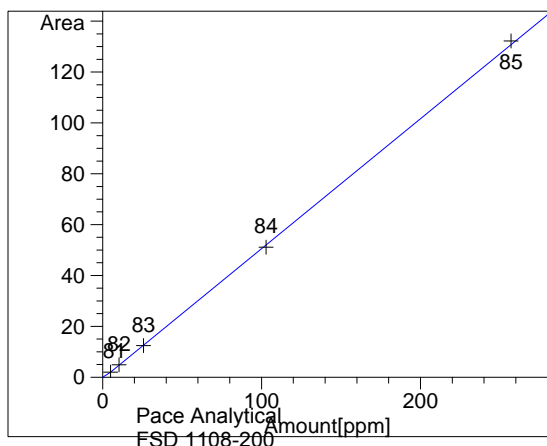
Level 81 : 1

Level 82 : 0.235621

Level 83 : 0.037699

Level 84 : 0.002356

Level 85 : 0.000377



Tetrachloroethene at exp. RT: 7.981

FID2 B,

Correlation: 0.99969

Residual Std. Dev.: 0.96534

Formula: $y = mx + b$

m: 5.11161e-1

b: -5.41717e-1

x: Amount

y: Area

Calibration Level Weights:

Level 81 : 1

Level 82 : 0.235621

Level 83 : 0.037699

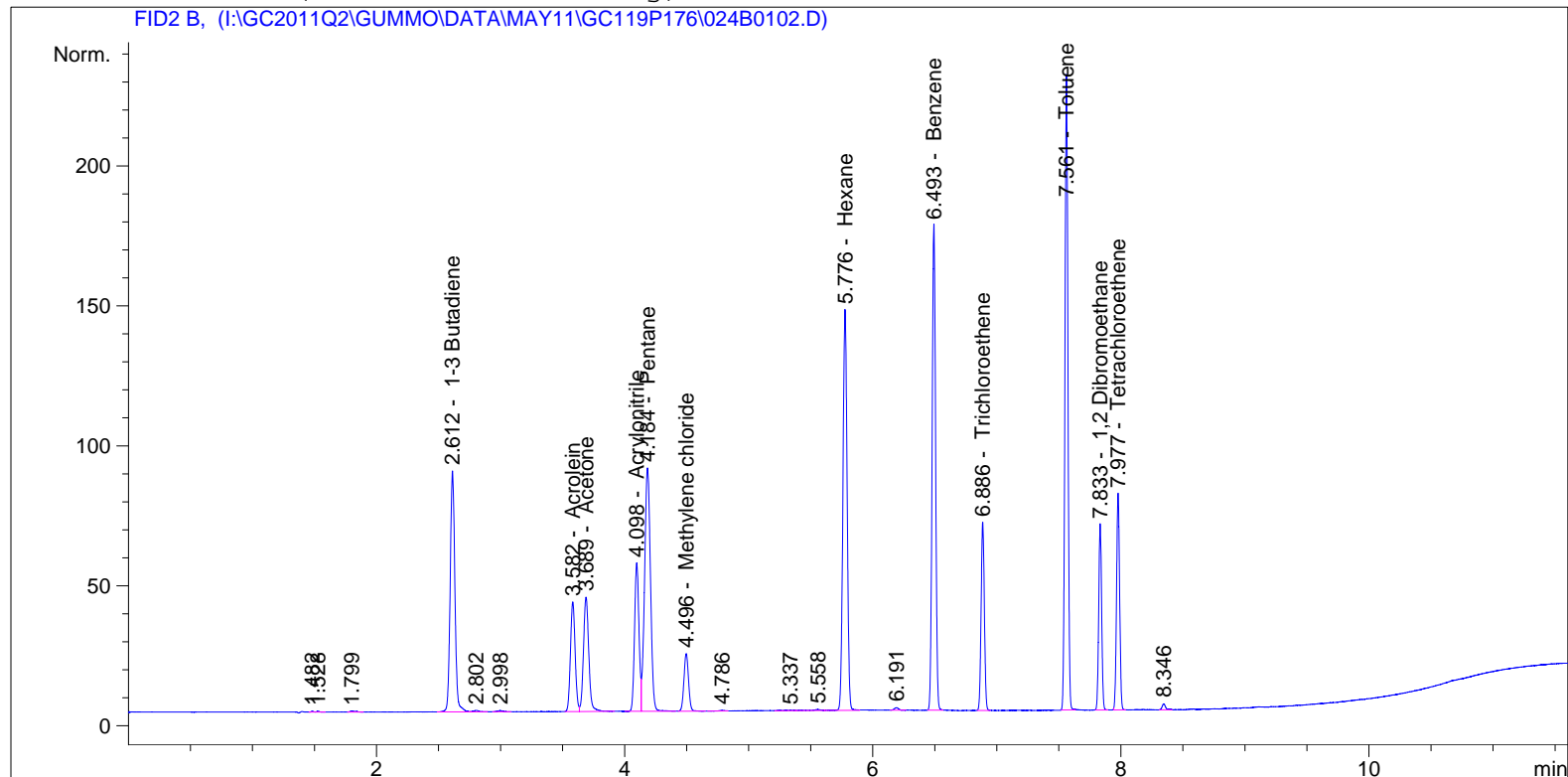
Level 84 : 0.002356

Level 85 : 0.000377

=====

Acq. Operator	: stg	Seq. Line	: 1
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 20:17:52	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.612	BV	227.49275	1.20826	274.86990		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.582	BV	103.01763	2.66217	274.25071		Acrolein
3.689	VB	120.90163	2.20864	267.02843		Acetone
4.098	BV	131.69485	2.01757	265.70373		Acrylonitrile
4.184	VB	287.39124	9.54533e-1	274.32428		Pentane
4.496	BB	52.92663	5.09546	269.68567		Methylene chloride
5.776	VV	338.63821	8.07638e-1	273.49699		Hexane
6.493	BB	337.74820	8.09305e-1	273.34132		Benzene
6.886	BB	122.42929	2.15669	264.04243		Trichloroethene
7.561	BB	384.49036	6.83627e-1	262.84805		Toluene
7.833	BB	109.98495	2.35147	258.62646		1,2 Dibromoethane

Sample Name: gc119p176 #I5 ENV(1=0,4=350)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.977	BB	133.55983	1.96427	262.34713	--	Tetrachloroethene

Totals : 3220.56510

1 Warnings or Errors :

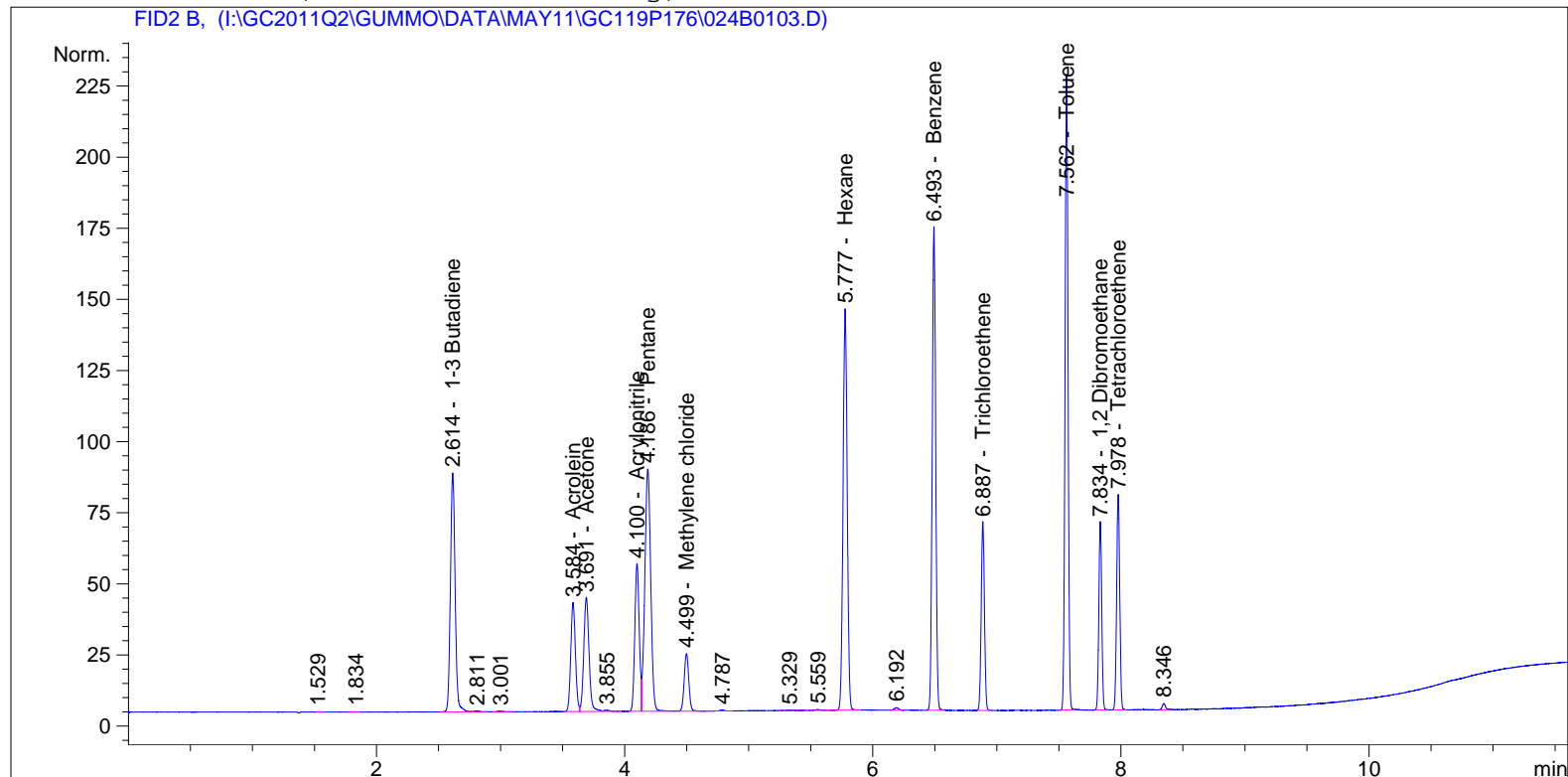
Warning : Calibrated compound(s) not found

*** End of Report ***

=====

Acq. Operator	: stg	Seq. Line	: 1
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 20:36:55	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.614	VV	220.73529	1.20833	266.72045		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.584	BV	100.61214	2.66229	267.85907		Acrolein
3.691	VV	118.07658	2.20885	260.81375		Acetone
4.100	BV	129.14693	2.01774	260.58554		Acrylonitrile
4.186	VB	281.57263	9.54558e-1	268.77747		Pentane
4.499	BB	51.84889	5.09566	264.20435		Methylene chloride
5.777	VB	330.75290	8.07671e-1	267.13961		Hexane
6.493	BB	331.53180	8.09332e-1	268.31918		Benzene
6.887	BB	120.18494	2.15690	259.22737		Trichloroethene
7.562	BB	378.41660	6.83684e-1	258.71728		Toluene
7.834	BB	108.91993	2.35155	256.13103		1,2 Dibromoethane

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.978	BB	131.82426	1.96437	258.95179	--	Tetrachloroethene
Totals :				3157.44688		

1 Warnings or Errors :

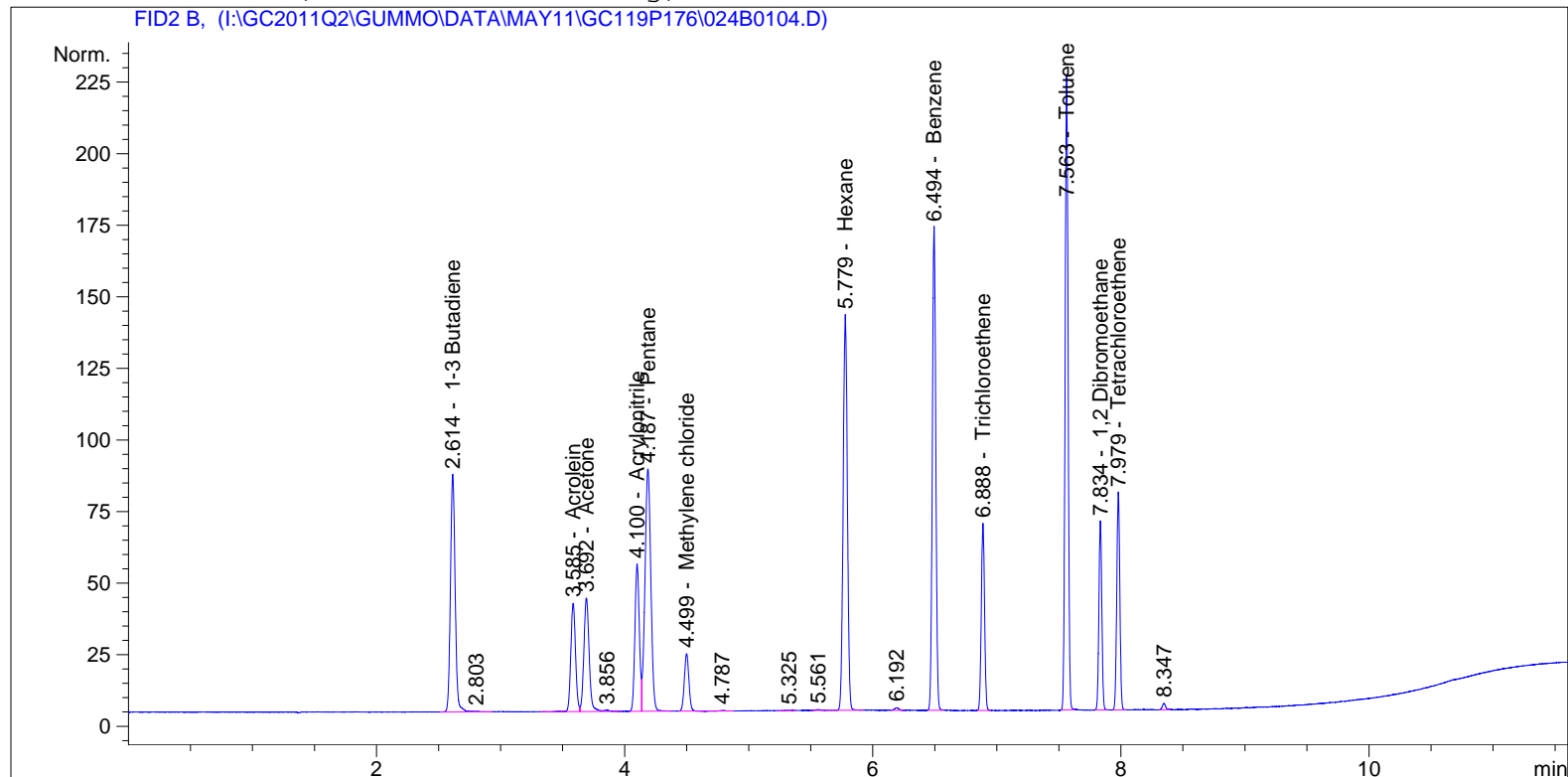
Warning : Calibrated compound(s) not found

*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 1
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 20:56:10	Inj	: 4
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.614	VV	218.22620	1.20835	263.69450		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.585	VV	99.59673	2.66235	265.16104		Acrolein
3.692	VV	116.72022	2.20896	257.82999		Acetone
4.100	BV	127.99286	2.01783	258.26729		Acrylonitrile
4.187	VB	278.38052	9.54573e-1	265.73447		Pentane
4.499	BV	51.11282	5.09580	260.46072		Methylene chloride
5.779	VB	327.66815	8.07685e-1	264.65259		Hexane
6.494	BB	328.73965	8.09344e-1	266.06344		Benzene
6.888	BB	119.30291	2.15699	257.33506		Trichloroethene
7.563	BB	376.45541	6.83702e-1	257.38348		Toluene
7.834	BB	108.98161	2.35155	256.27555		1,2 Dibromoethane

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.979	BB	131.31793	1.96440	257.96124	--	Tetrachloroethene
Totals :				3130.81935		

1 Warnings or Errors :

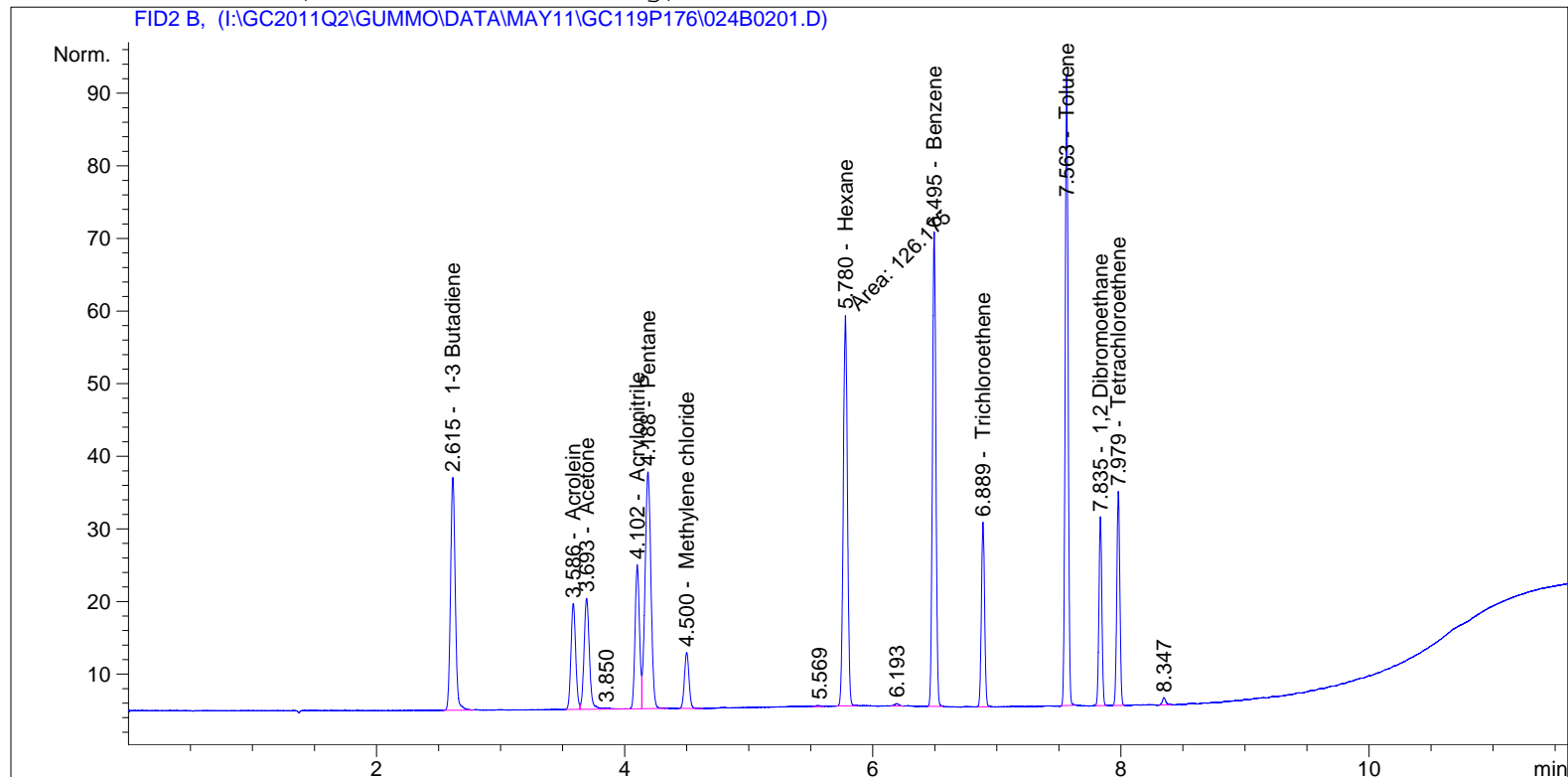
Warning : Calibrated compound(s) not found

*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 2
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 21:15:26	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.615	BB	84.04774	1.21212	101.87617		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.586	BV	38.49335	2.67067	102.80313		Acrolein
3.693	VV	45.40085	2.22328	100.93874		Acetone
4.102	VV	49.55680	2.03217	100.70778		Acrylonitrile
4.188	VB	107.48136	9.56614e-1	102.81814		Pentane
4.500	BB	19.76759	5.11142	101.04051		Methylene chloride
5.780	MM	126.17490	8.10006e-1	102.20242		Hexane
6.495	BB	127.17520	8.11655e-1	103.22242		Benzene
6.889	BB	46.17884	2.17533	100.45400		Trichloroethene
7.563	BB	146.17778	6.89377e-1	100.77162		Toluene
7.835	BB	42.82140	2.36465	101.25755		1,2 Dibromoethane

Manual Int. "I" (KAM)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.979	BB	51.18778	1.97704	101.20007	--	Tetrachloroethene
Totals :				1219.29255		

1 Warnings or Errors :

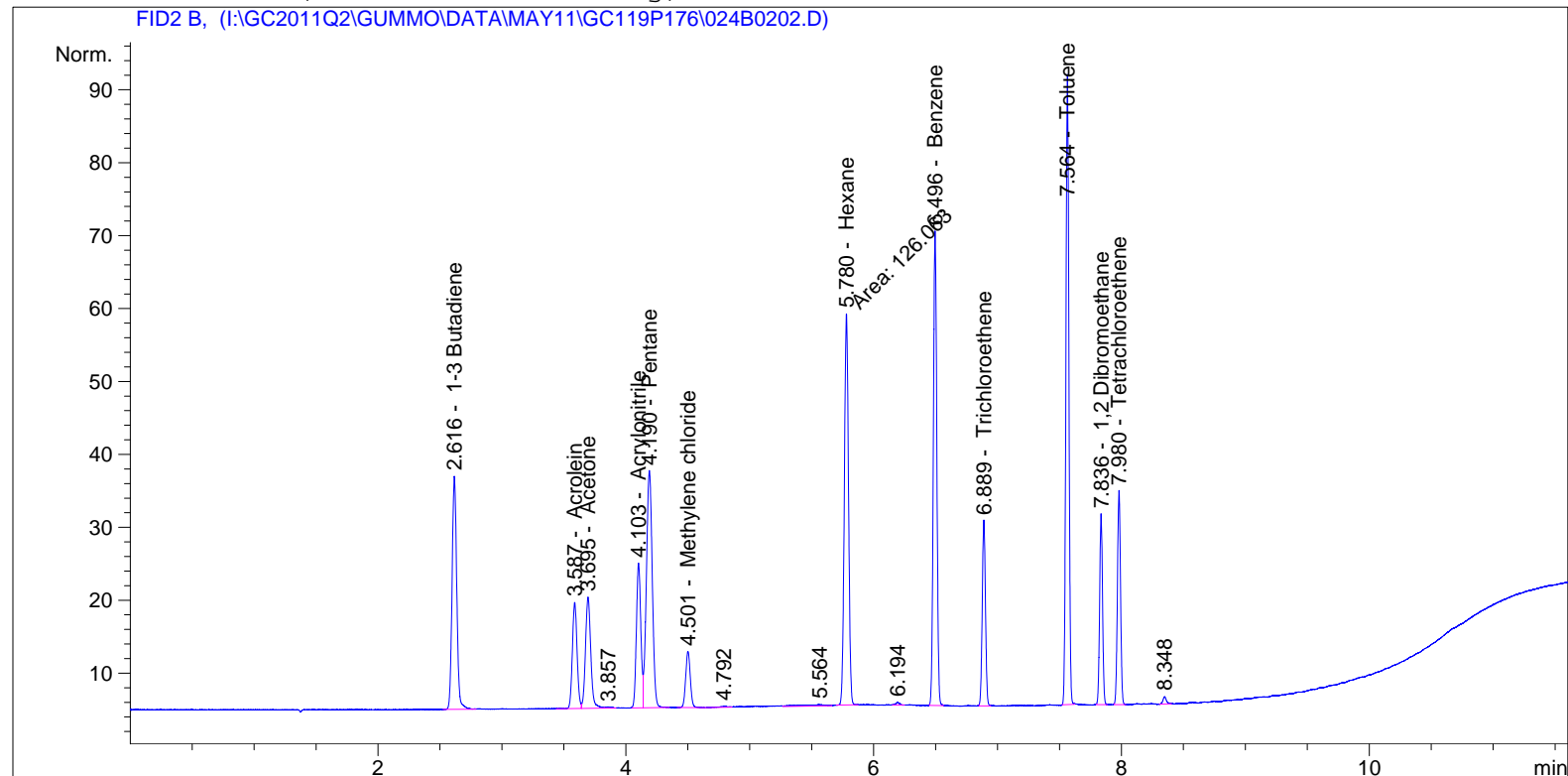
Warning : Calibrated compound(s) not found

*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 2
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 21:34:35	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.616	BV	83.91992	1.21213	101.72201		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.587	BV	38.33099	2.67073	102.37174		Acrolein
3.695	VV	45.20304	2.22338	100.50358		Acetone
4.103	BV	49.38340	2.03225	100.35945		Acrylonitrile
4.190	VB	107.37476	9.56617e-1	102.71652		Pentane
4.501	BB	19.81387	5.11136	101.27590		Methylene chloride
5.780	MM	126.06277	8.10009e-1	102.11202		Hexane
6.496	BB	126.96530	8.11661e-1	103.05284		Benzene
6.889	BB	46.08913	2.17538	100.26154		Trichloroethene
7.564	BB	146.07574	6.89384e-1	100.70223		Toluene
7.836	BB	42.94029	2.36459	101.53612		1,2 Dibromoethane

Manual Int. "II" (KAM)

Sample Name: gc119p176 #I4 ENV(1=600,4=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	51.15772	1.97705	101.14125	--	Tetrachloroethene
Totals :				1217.75521		

1 Warnings or Errors :

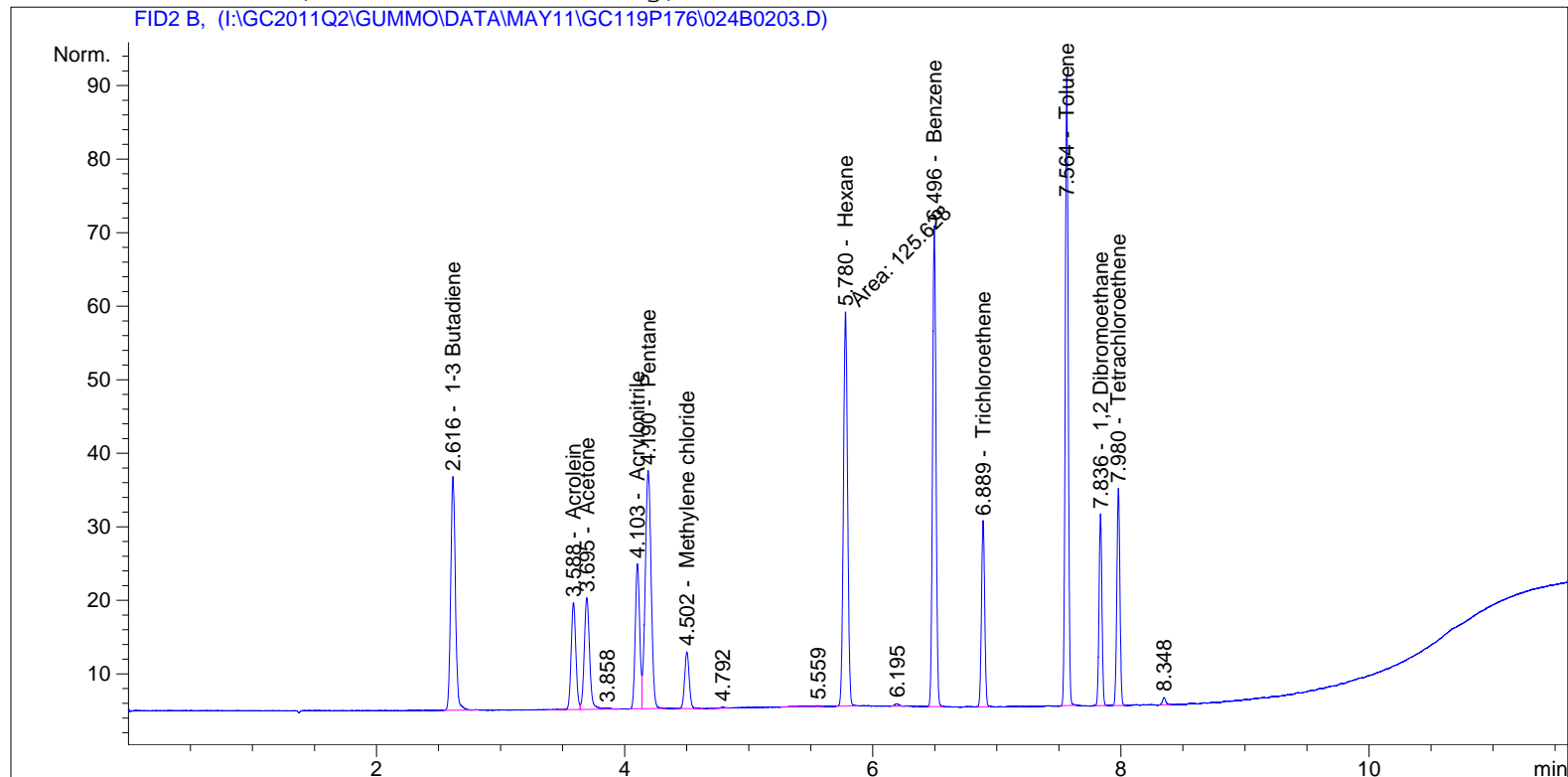
Warning : Calibrated compound(s) not found

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*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 2
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 21:54:35	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.616	BB	83.45629	1.21217	101.16288		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.588	BV	38.27164	2.67075	102.21402		Acrolein
3.695	VV	45.02244	2.22348	100.10630		Acetone
4.103	BV	49.19806	2.03234	99.98715		Acrylonitrile
4.190	VB	106.76827	9.56636e-1	102.13836		Pentane
4.502	BB	19.78378	5.11140	101.12287		Methylene chloride
5.780	MM	125.62802	8.10022e-1	101.76151		Hexane
6.496	BB	126.48488	8.11676e-1	102.66472		Benzene
6.889	BB	45.90971	2.17550	99.87660		Trichloroethene
7.564	BB	145.65034	6.89411e-1	100.41291		Toluene
7.836	BB	42.93444	2.36459	101.52240		1,2 Dibromoethane

Manual Int. "II" (KAM)

Base Analytical
FSD 1108-200

FHR Pine Bend LLC
Page B-661 of 1576

Sample Name: gc119p176 #I4 ENV(1=600,4=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	51.05406	1.97709	100.93846	--	Tetrachloroethene
Totals :				1213.90818		

1 Warnings or Errors :

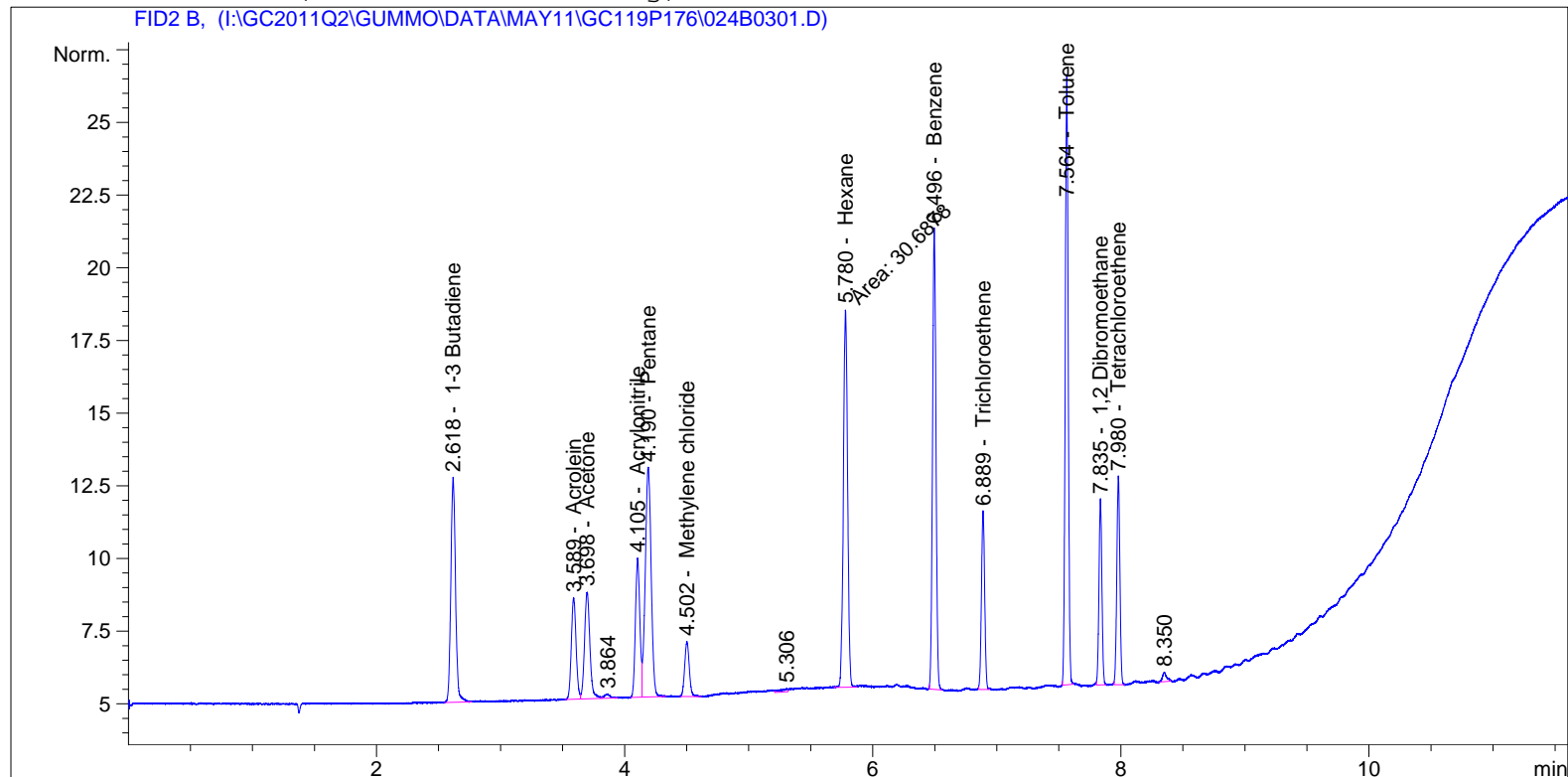
Warning : Calibrated compound(s) not found

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*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 3
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 22:15:33	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	BB	20.39541	1.23125	25.11188		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	9.31069	2.71321	25.26183		Acrolein
3.698	VV	11.05628	2.29609	25.38617		Acetone
4.105	BV	11.94638	2.10585	25.15734		Acrylonitrile
4.190	VB	26.11541	9.66972e-1	25.25286		Pentane
4.502	BB	4.90854	5.18854	25.46815		Methylene chloride
5.780	MM	30.68785	8.21751e-1	25.21778		Hexane
6.496	BB	30.70170	8.23501e-1	25.28287		Benzene
6.889	BB	11.10415	2.26982	25.20442		Trichloroethene
7.564	BB	35.18100	7.18646e-1	25.28269		Toluene
7.835	BB	10.57866	2.43042	25.71054		1,2 Dibromoethane

Manual Int. "IP" (KAM)

Base Analytical
FSD 1108-200

FHR Pine Bend LLC
Page B-663 of 1576

Sample Name: gc119p176 #I3 ENV(1=900,4=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	12.47315	2.04130	25.46140	--	Tetrachloroethene
Totals :				303.79793		

1 Warnings or Errors :

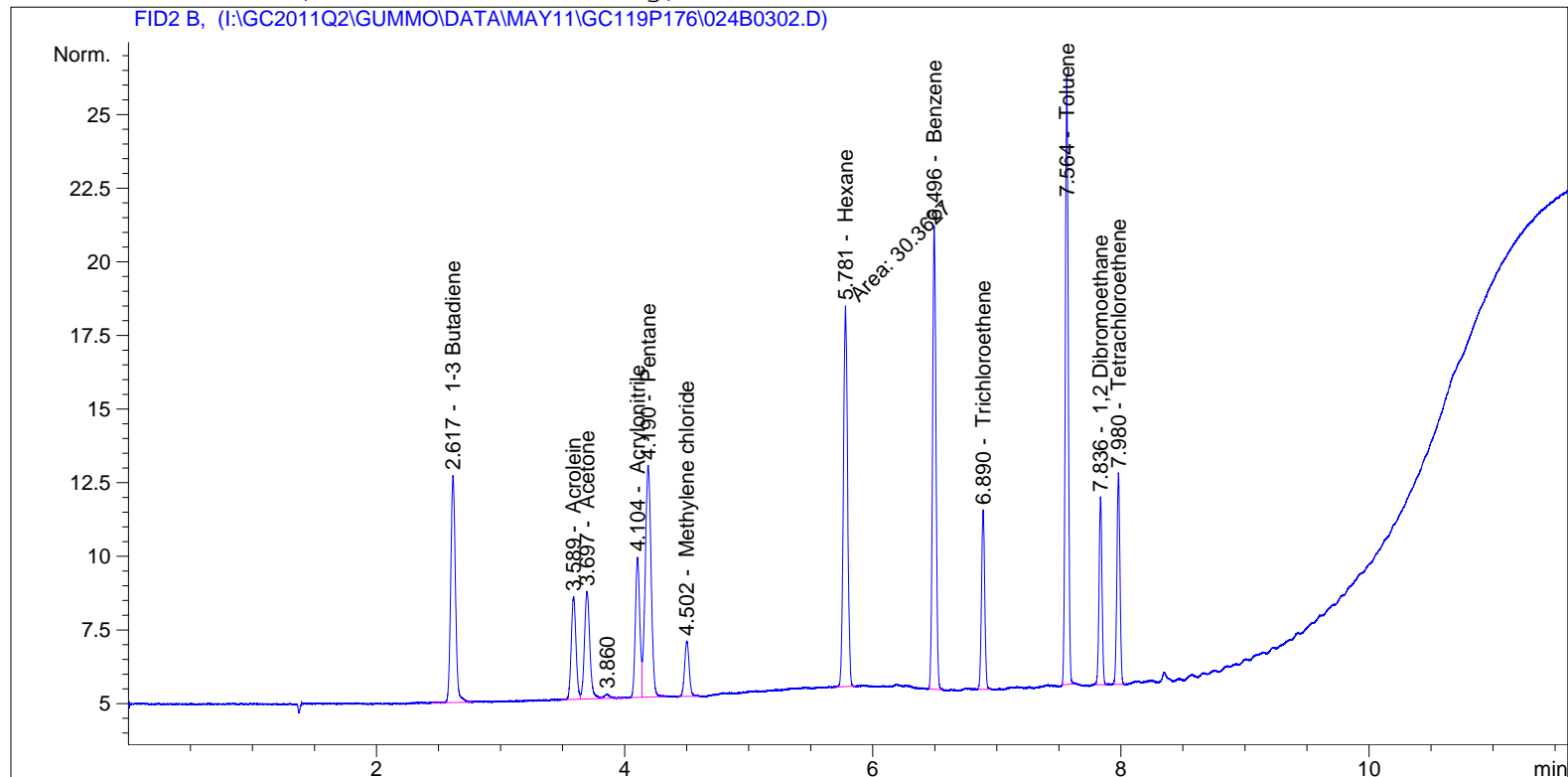
Warning : Calibrated compound(s) not found

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*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 3
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 22:36:34	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BB	20.29779	1.23137	24.99414		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	9.25119	2.71357	25.10375		Acrolein
3.697	VB	10.96829	2.29686	25.19259		Acetone
4.104	BV	11.87855	2.10641	25.02108		Acrylonitrile
4.190	VB	26.05370	9.67004e-1	25.19403		Pentane
4.502	BB	4.84770	5.18983	25.15870		Methylene chloride
5.781	MM	30.36272	8.21917e-1	24.95565		Hexane
6.496	BB	30.55249	8.23577e-1	25.16232		Benzene
6.890	BB	11.06860	2.27022	25.12816		Trichloroethene
7.564	BB	35.03233	7.18810e-1	25.18158		Toluene
7.836	BB	10.48280	2.43122	25.48594		1,2 Dibromoethane

Manual Int. "I" (KAM)

Sample Name: gc119p176 #I3 ENV(1=900,4=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	12.41059	2.04172	25.33901	--	Tetrachloroethene
Totals :				301.91697		

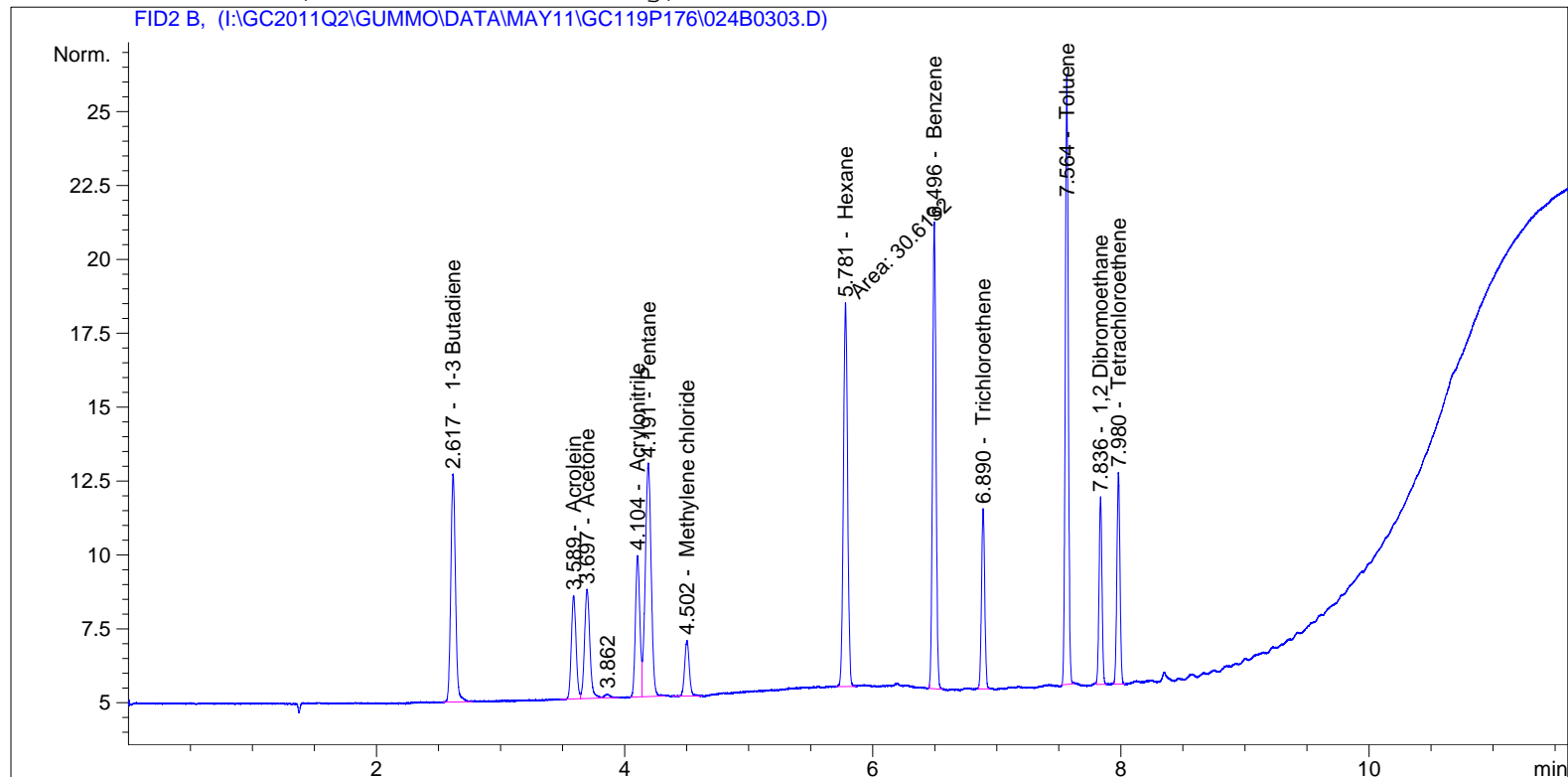
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

=====

Acq. Operator	: stg	Seq. Line	: 3
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 22:57:22	Inj	: 3
		Inj Volume	: External
Acq. Method	: G:\GC2011Q2\GUMMO\METHODS\GC114P165.M		
Last changed	: 11/15/2010 3:12:59 PM by tbo		
Analysis Method	: I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M		
Last changed	: 6/6/2011 4:20:51 PM by KAM		
	(modified after loading)		



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BB	20.35183	1.23131	25.05932		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	9.27220	2.71344	25.15956		Acrolein
3.697	VV	10.95870	2.29694	25.17151		Acetone
4.104	BV	11.90077	2.10623	25.06571		Acrylonitrile
4.191	VB	26.02032	9.67022e-1	25.16221		Pentane
4.502	BB	4.85894	5.18959	25.21590		Methylene chloride
5.781	MM	30.61320	8.21789e-1	25.15759		Hexane
6.496	BB	30.63826	8.23533e-1	25.23161		Benzene
6.890	BB	11.08076	2.27008	25.15426		Trichloroethene
7.564	BB	35.12492	7.18708e-1	25.24456		Toluene
7.836	BB	10.47728	2.43126	25.47302		1,2 Dibromoethane

Manual Int. "IP" (KAM)

Sample Name: gc119p176 #I3 ENV(1=900,4=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	12.40187	2.04178	25.32196	--	Tetrachloroethene
Totals :				302.41720		

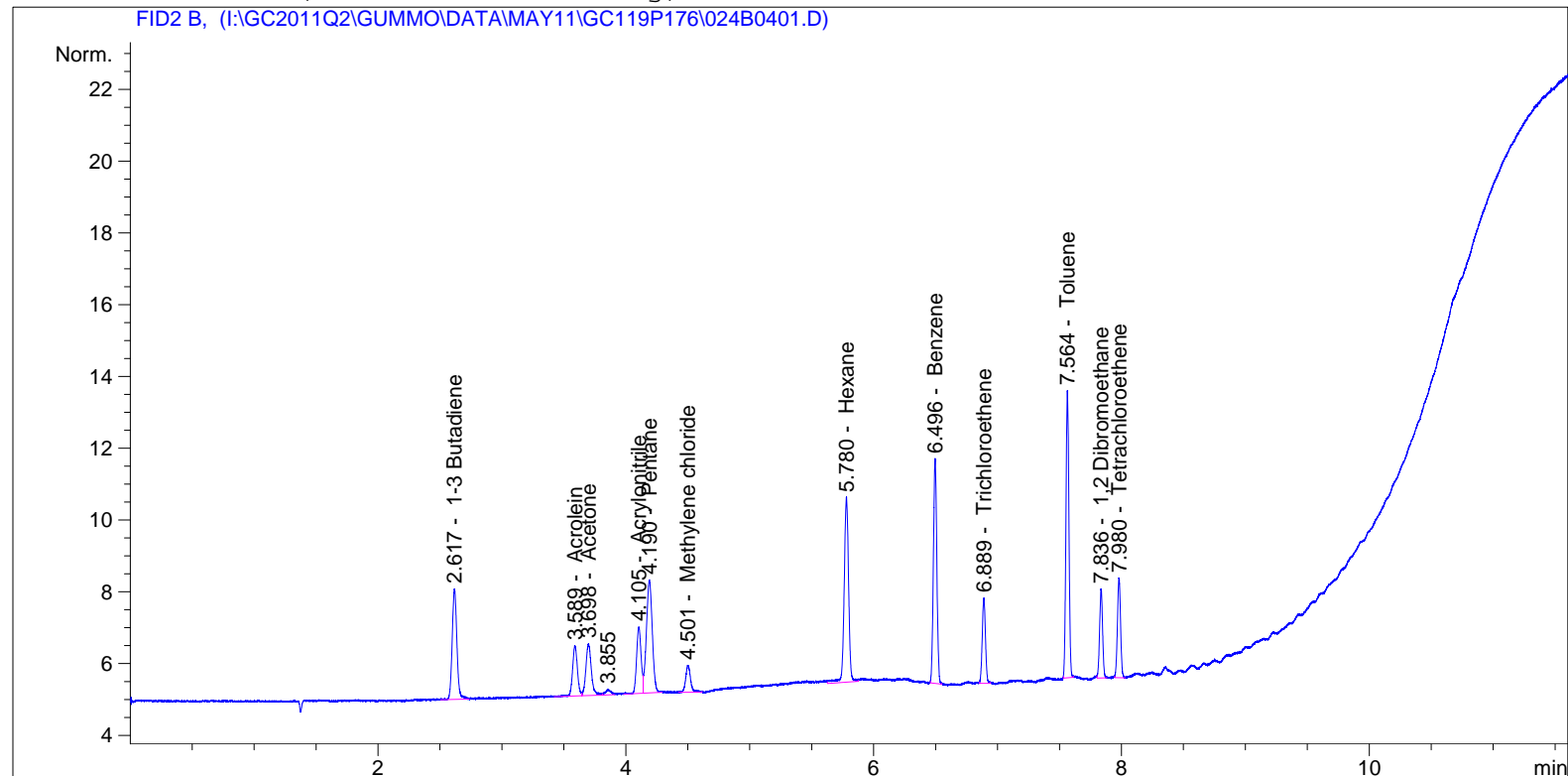
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: stg	Seq. Line	: 4
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 23:18:14	Inj	: 1
		Inj Volume	: External
Acq. Method	: G:\GC2011Q2\GUMMO\METHODS\GC114P165.M		
Last changed	: 11/15/2010 3:12:59 PM by tbo		
Analysis Method	: I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M		
Last changed	: 6/6/2011 4:20:51 PM by KAM		
	(modified after loading)		



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BV	8.11377	1.26948	10.30029		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	3.79931	2.79460	10.61754		Acrolein
3.698	VB	4.41069	2.44110	10.76692		Acetone
4.105	VV	4.71410	2.25481	10.62938		Acrylonitrile
4.190	VB	10.34579	9.87827e-1	10.21985		Pentane
4.501	BB	2.01055	5.33641	10.72910		Methylene chloride
5.780	VV	12.92357	8.43085e-1	10.89566		Hexane
6.496	BB	12.05374	8.47658e-1	10.21745		Benzene
6.889	BB	4.32283	2.46499	10.65573		Trichloroethene
7.564	BB	13.51208	7.80461e-1	10.54566		Toluene
7.836	BB	4.14835	2.56581	10.64388		1,2 Dibromoethane

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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	4.91049	2.17215	10.66632	--	Tetrachloroethene
Totals :				126.88780		

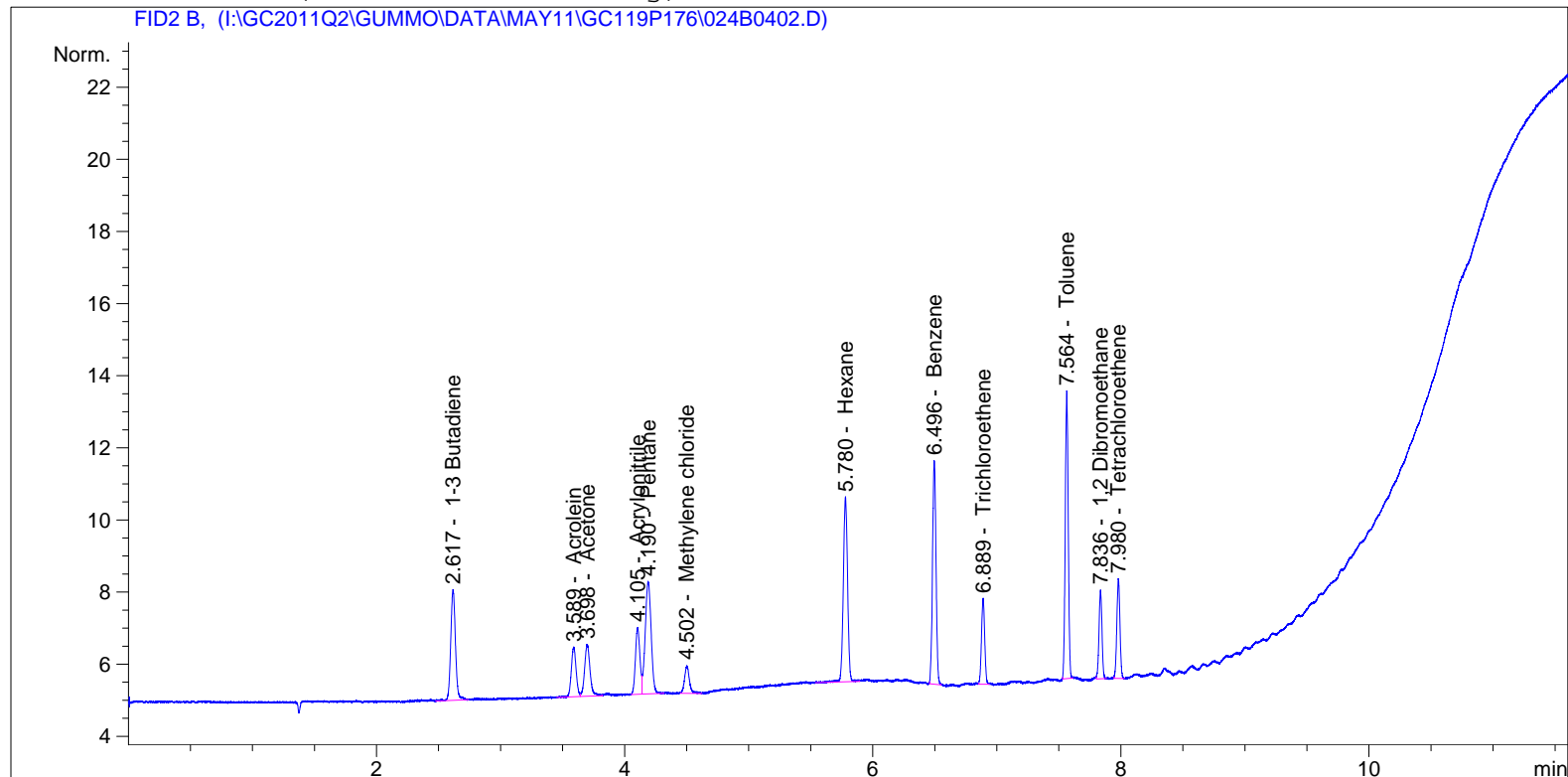
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 4
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 23:39:05	Inj	: 2
		Inj Volume	: External
Acq. Method	: G:\GC2011Q2\GUMMO\METHODS\GC114P165.M		
Last changed	: 11/15/2010 3:12:59 PM by tbo		
Analysis Method	: I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M		
Last changed	: 6/6/2011 4:20:51 PM by KAM		
	(modified after loading)		



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	VB	8.14729	1.26922	10.34072		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	3.72422	2.79737	10.41801		Acrolein
3.698	VB	4.38102	2.44273	10.70166		Acetone
4.105	BV	4.64849	2.25828	10.49760		Acrylonitrile
4.190	VB	10.35551	9.87795e-1	10.22911		Pentane
4.502	BV	2.07233	5.32894	11.04334		Methylene chloride
5.780	BB	12.34091	8.44825e-1	10.42590		Hexane
6.496	BB	12.03899	8.47707e-1	10.20553		Benzene
6.889	BB	4.28205	2.46803	10.56824		Trichloroethene
7.564	BB	13.38906	7.81383e-1	10.46199		Toluene
7.836	BB	4.13674	2.56644	10.61669		1,2 Dibromoethane

Base Analytical
FSD 1108-200

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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	4.83662	2.17545	10.52181	--	Tetrachloroethene
Totals :				126.03060		

1 Warnings or Errors :

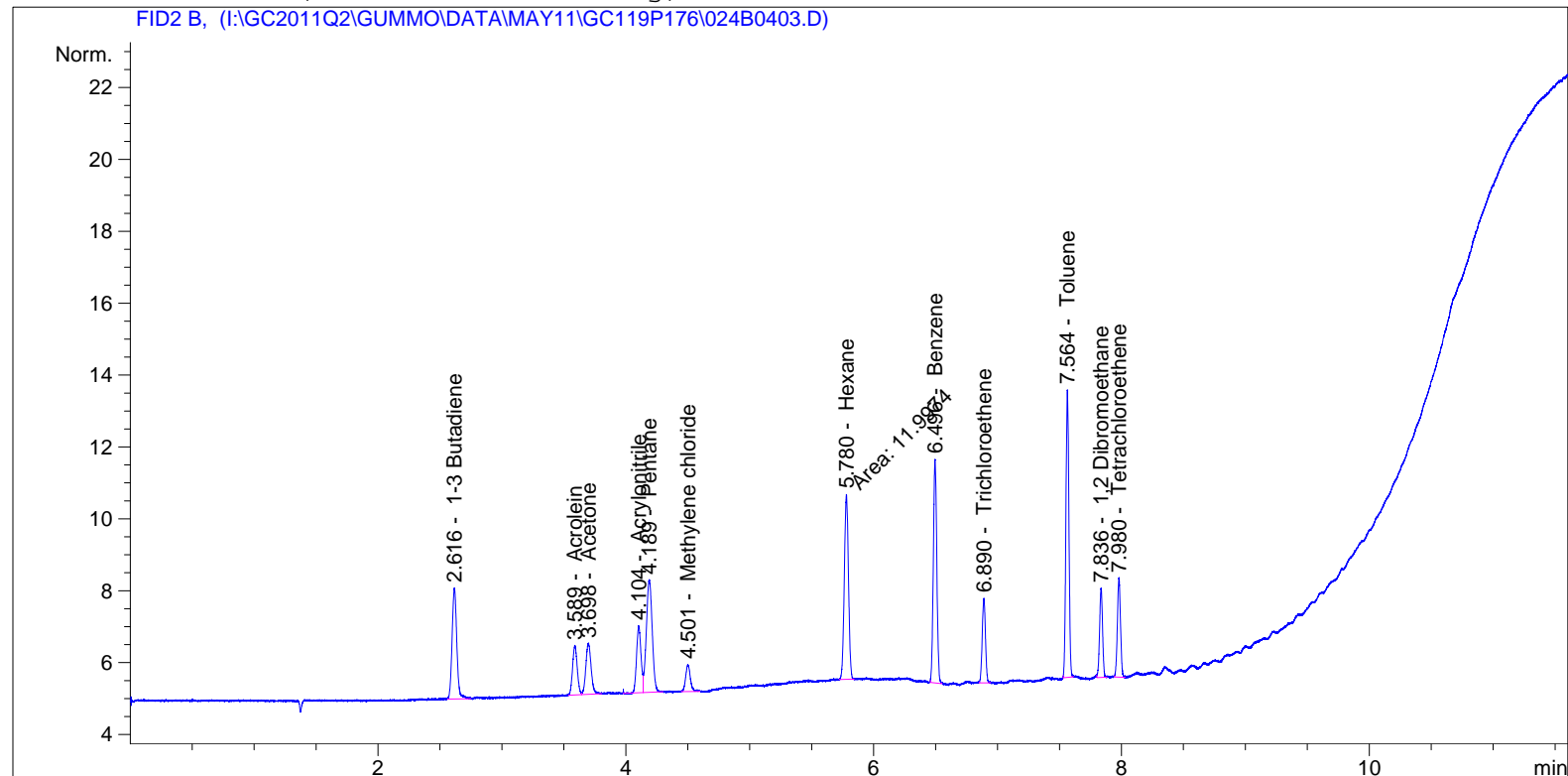
Warning : Calibrated compound(s) not found

*** End of Report ***

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Acq. Operator	: stg	Seq. Line	: 4
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 24-May-11, 23:59:54	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.616	BB	8.15296	1.26918	10.34755		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	3.61142	2.80175	10.11830		Acrolein
3.698	VB	4.22813	2.45151	10.36533		Acetone
4.104	BV	4.62080	2.25978	10.44197		Acrylonitrile
4.189	VB	10.34111	9.87843e-1	10.21539		Pentane
4.501	BB	1.98741	5.33933	10.61145		Methylene chloride
5.780	MM	11.99737	8.45930e-1	10.14893		Hexane
6.496	BB	12.09490	8.47523e-1	10.25070		Benzene
6.890	BB	4.28737	2.46763	10.57964		Trichloroethene
7.564	BB	13.50928	7.80482e-1	10.54375		Toluene
7.836	BB	4.13033	2.56678	10.60167		1,2 Dibromoethane

Manual Int. "II" (KAM)

Base Analytical
FSD 1108-200

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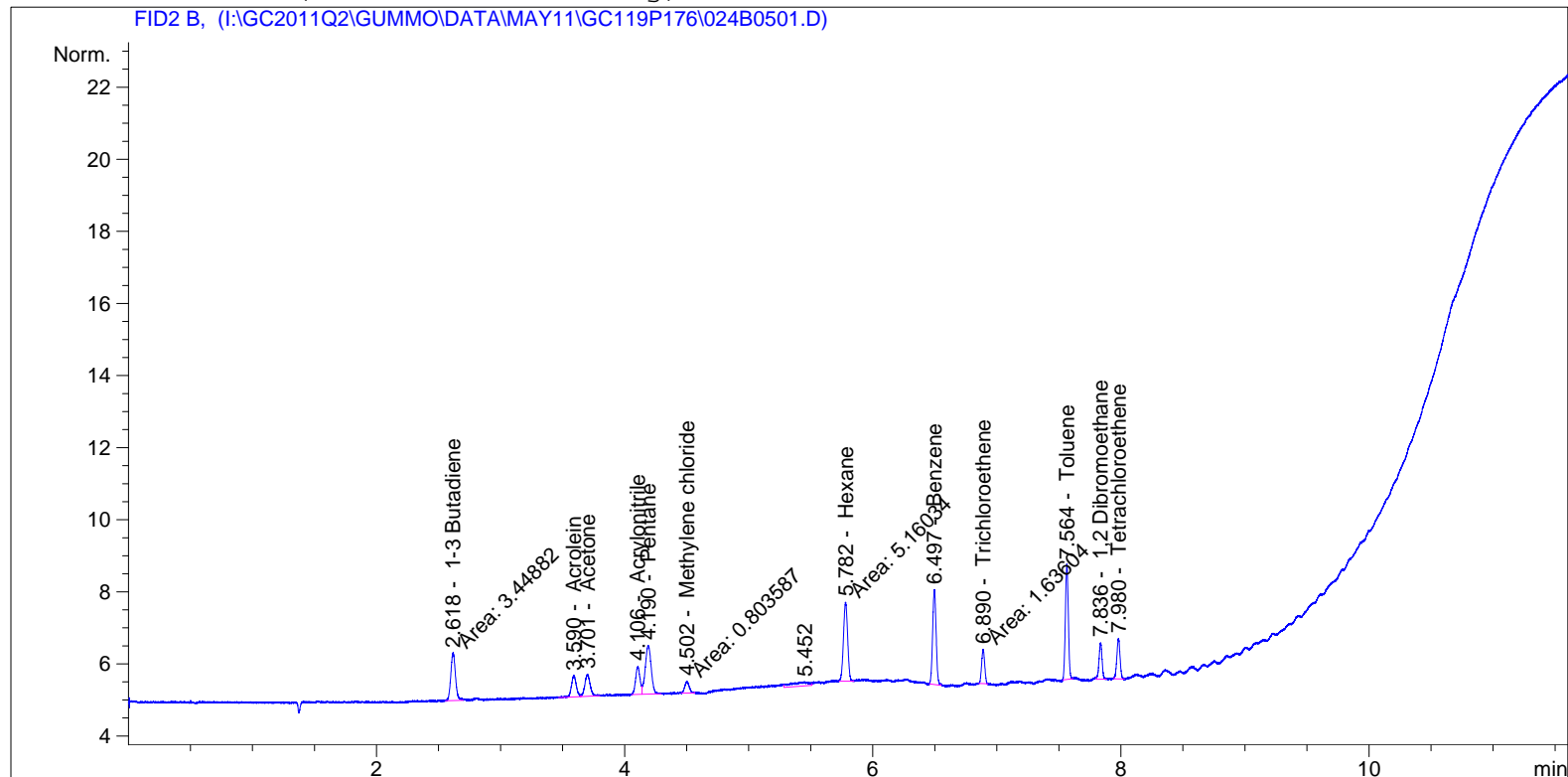
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	4.86705	2.17408	10.58135	--	Tetrachloroethene
Totals :				124.80603		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

=====
Acq. Operator : stg Seq. Line : 5
Acq. Instrument : Gummo online Location : Vial 24
Injection Date : 25-May-11, 00:20:39 Inj : 1
Inj Volume : External
Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



=====
External Standard Report
=====

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	MM	3.44882	1.35536	4.67440		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.590	BV	1.61224	2.98112	4.80626		Acrolein
3.701	VB	1.79594	2.79235	5.01489		Acetone
4.106	BV	1.91363	2.61488	5.00391		Acrylonitrile
4.190	VB	4.45763	1.03345	4.60674		Pentane
4.502	MM	8.03587e-1	5.71260	4.59057		Methylene chloride
5.782	MM	5.16034	8.98527e-1	4.63670		Hexane
6.497	BB	5.10556	9.01784e-1	4.60411		Benzene
6.890	MM	1.63604	2.97111	4.86086		Trichloroethene
7.564	BB	5.34037	9.34031e-1	4.98808		Toluene
7.836	BB	1.73366	2.87554	4.98521		1,2 Dibromoethane

Manual Int. "IP" (KAM)

Sample Name: gc119p176 #I1 ENV(1=1010,4=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	2.00471	2.48385	4.97940	--	Tetrachloroethene
Totals :				57.75113		

1 Warnings or Errors :

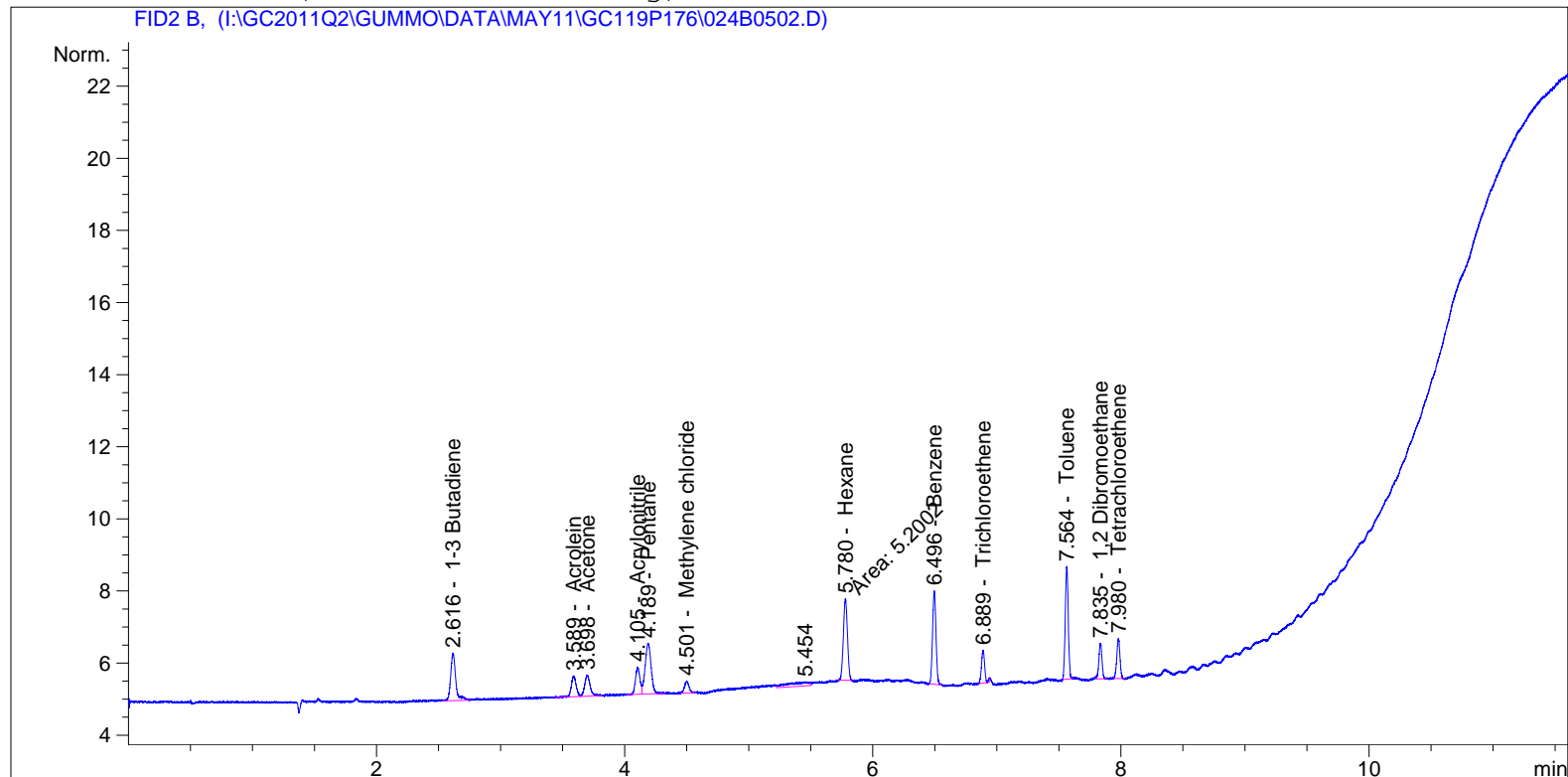
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: stg	Seq. Line	: 5
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 00:41:28	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.616	VB	3.74505	1.34355	5.03165		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	1.55819	2.99235	4.66266		Acrolein
3.698	VB	1.76517	2.79611	4.93560		Acetone
4.105	BV	1.87865	2.62011	4.92227		Acrylonitrile
4.189	VB	4.69095	1.02946	4.82915		Pentane
4.501	BB	8.07582e-1	5.70950	4.61089		Methylene chloride
5.780	MM	5.20020	8.97819e-1	4.66884		Hexane
6.496	BB	4.98430	9.04069e-1	4.50615		Benzene
6.889	BB	1.64132	2.97111	4.87654		Trichloroethene
7.564	BB	5.21998	9.35231e-1	4.88188		Toluene
7.835	BB	1.69868	2.87554	4.88461		1,2 Dibromoethane

Manual Int. "II" (KAM)

Base Analytical
FSD 1108-200

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Sample Name: gc119p176 #I1 ENV(1=1010,4=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.980	BB	1.96073	2.48385	4.87016	--	Tetrachloroethene

Totals : 57.68040

1 Warnings or Errors :

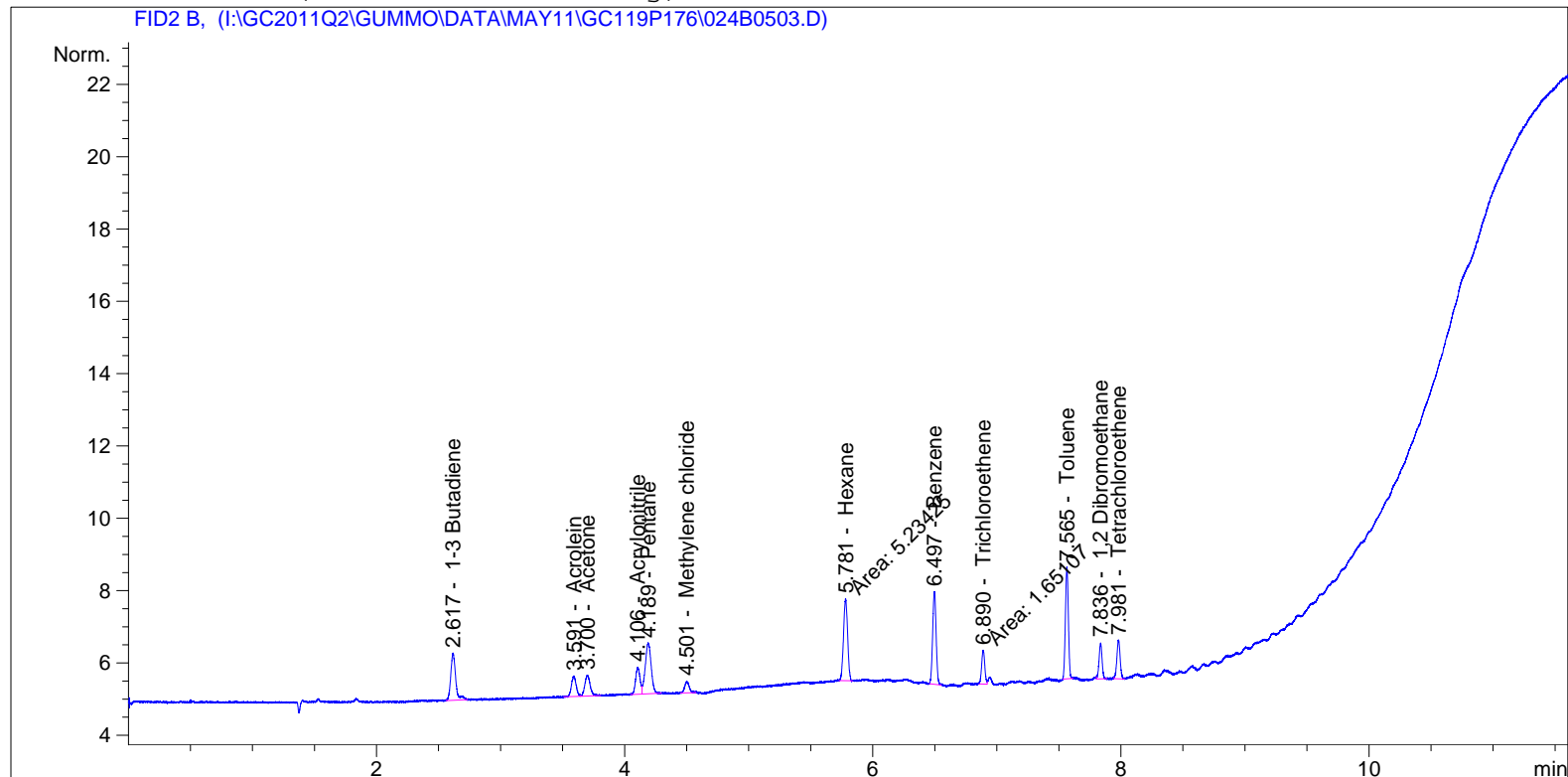
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: stg	Seq. Line	: 5
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 01:02:21	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:20:51 PM by KAM
(modified after loading)



External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BB	3.59091	1.34945	4.84575		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.591	BV	1.49471	3.00659	4.49398		Acrolein
3.700	VB	1.71426	2.79611	4.79327		Acetone
4.106	BV	1.83318	2.62011	4.80312		Acrylonitrile
4.189	VB	4.63356	1.03041	4.77445		Pentane
4.501	BB	8.09604e-1	5.70794	4.62117		Methylene chloride
5.781	MM	5.23425	8.97223e-1	4.69629		Hexane
6.497	BB	4.97415	9.04265e-1	4.49795		Benzene
6.890	MM	1.65107	2.97111	4.90551		Trichloroethene
7.565	BB	5.17019	9.35231e-1	4.83532		Toluene
7.836	BB	1.68187	2.87554	4.83629		1,2 Dibromoethane

Manual Int. "IP" (KAM)

Sample Name: gc119p176 #I1 ENV(1=1010,4=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981	BB	1.97296	2.48385	4.90054	--	Tetrachloroethene
Totals :				57.00364		

1 Warnings or Errors :

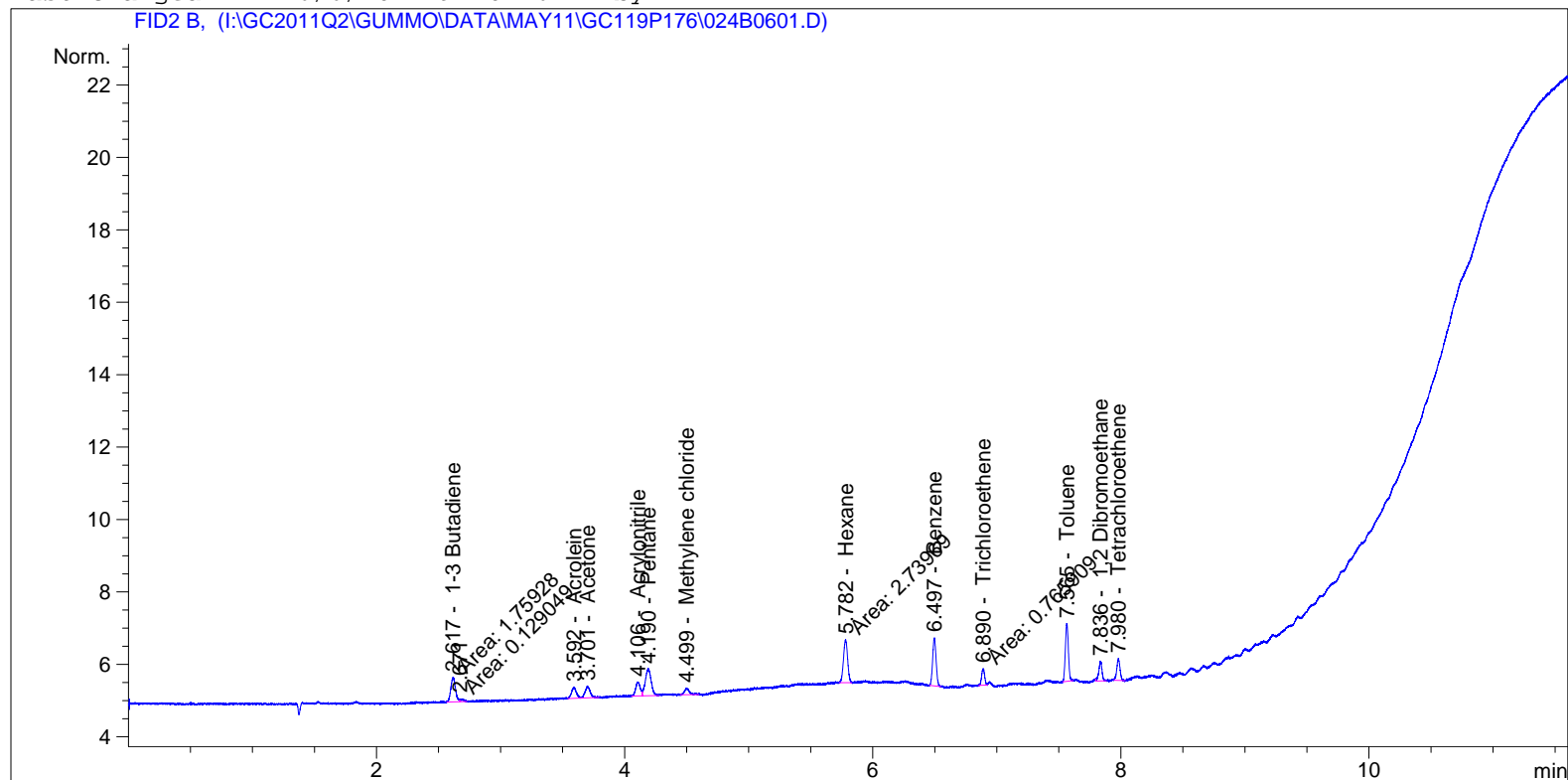
Warning : Calibrated compound(s) not found

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*** End of Report ***

=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 01:23:13	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

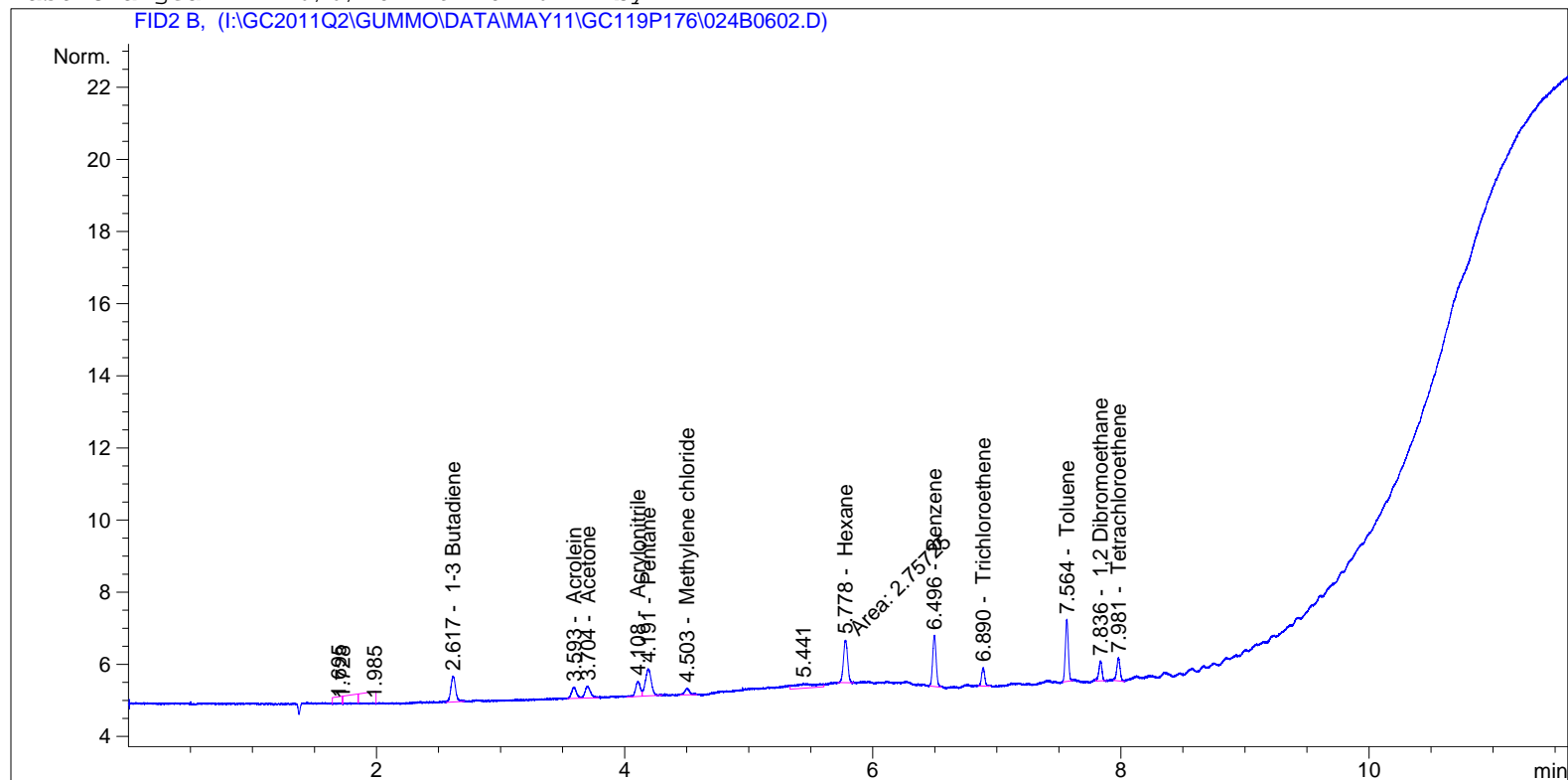
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	MF	1.75928	1.43703	2.52814		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.592	BV	7.97064e-1	3.31249	2.64027		Acrolein
3.701	VB	8.90922e-1	2.79611	2.49111		Acetone
4.106	BV	9.74719e-1	2.62011	2.55387		Acrylonitrile
4.190	VV	2.44013	1.09972	2.68347		Pentane
4.499	BB	4.83178e-1	6.12815	2.96098		Methylene chloride
5.782	MM	2.73969	9.79165e-1	2.68261		Hexane
6.497	BB	2.56766	9.94036e-1	2.55235		Benzene
6.890	MM	7.65909e-1	2.97111	2.27560		Trichloroethene
7.565	BB	2.71815	9.35231e-1	2.54210		Toluene
7.836	BB	9.72586e-1	2.87554	2.79671		1,2 Dibromoethane
7.980	BB	1.06108	2.48385	2.63557		Tetrachloroethene

Manual Int. "II" (KAM)

=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 01:44:07	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

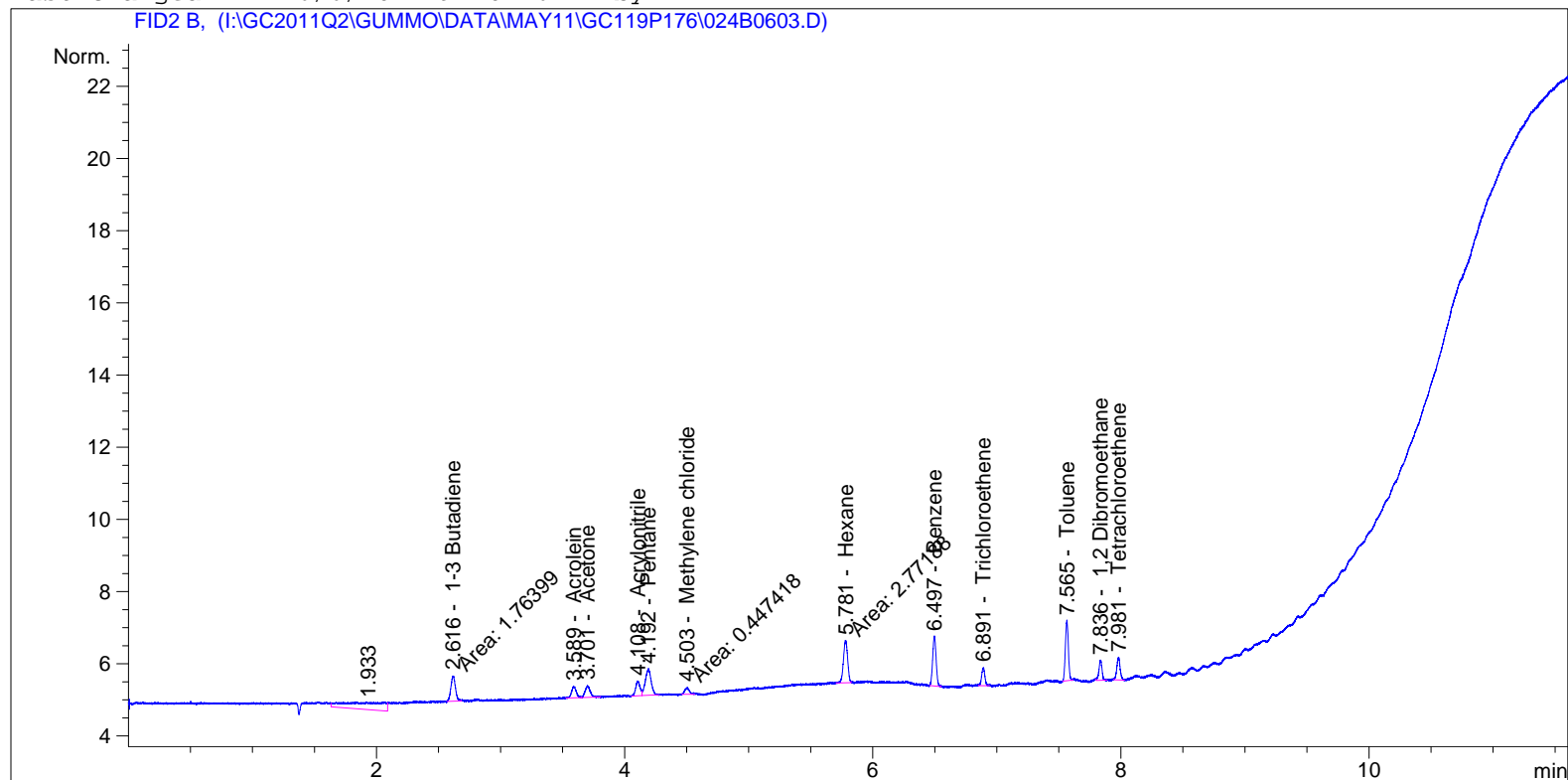
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	VB	1.91464	1.42230	2.72320		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.593	BV	8.44908e-1	3.27538	2.76739		Acrolein
3.704	VV	1.02043	2.79611	2.85322		Acetone
4.108	VV	1.10857	2.62011	2.90457		Acrylonitrile
4.191	VB	2.47463	1.09768	2.71636		Pentane
4.503	BB	5.12554e-1	6.06842	3.11039		Methylene chloride
5.778	MM	2.75725	9.78024e-1	2.69665		Hexane
6.496	BB	2.76023	9.81568e-1	2.70935		Benzene
6.890	BB	9.15984e-1	2.97111	2.72149		Trichloroethene
7.564	BB	2.85956	9.35231e-1	2.67435		Toluene
7.836	BB	9.73909e-1	2.87554	2.80051		1,2 Dibromoethane
7.981	BB	1.20246	2.48385	2.98675		Tetrachloroethene

Manual Int. "II" (KAM)

=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 02:05:06	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

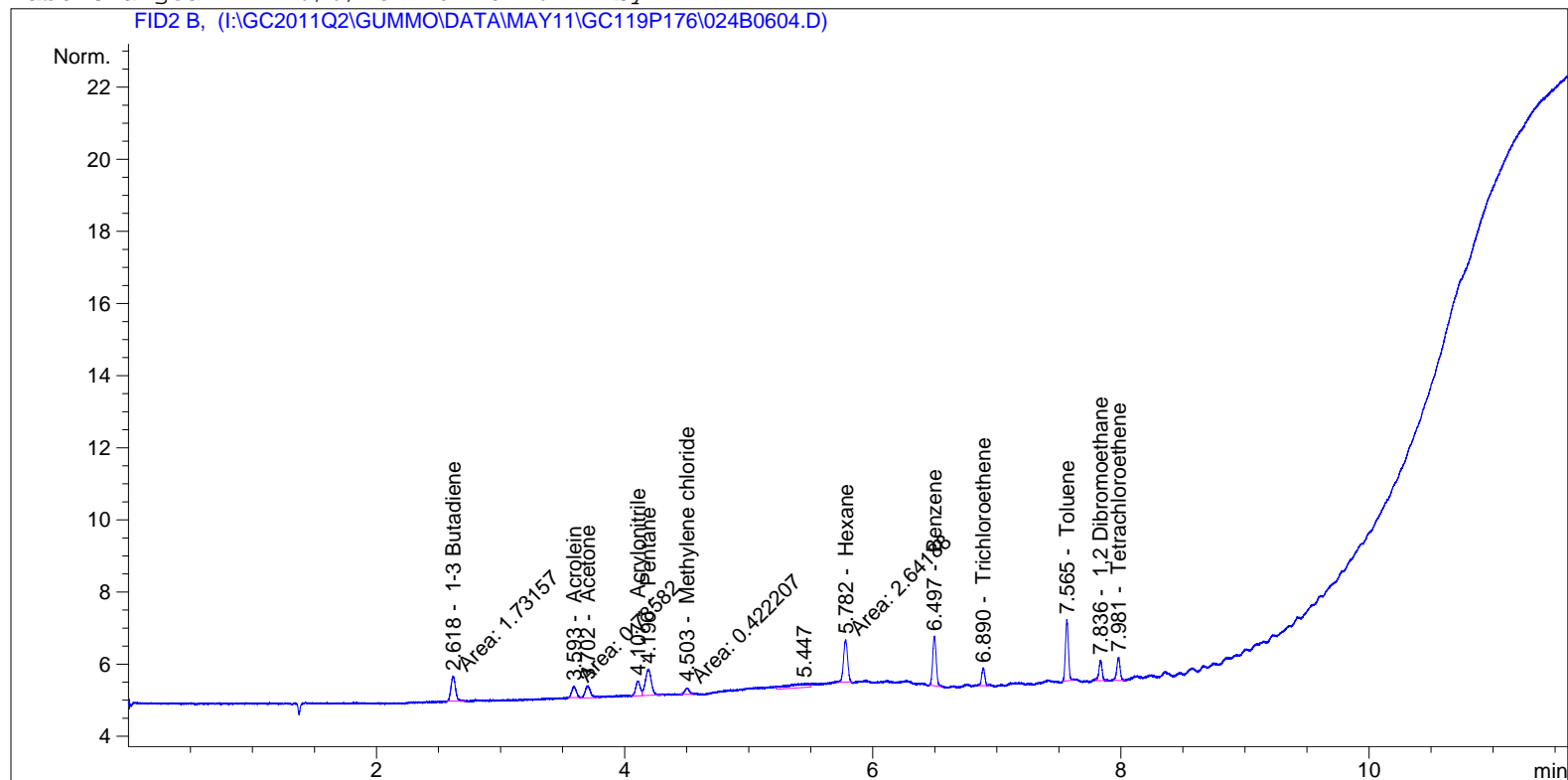
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.616	MM	1.76399	1.43703	2.53491		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	8.26564e-1	3.28910	2.71865		Acrolein
3.701	VB	8.96940e-1	2.79611	2.50794		Acetone
4.108	BV	1.00076	2.62011	2.62210		Acrylonitrile
4.192	VB	2.36672	1.10427	2.61349		Pentane
4.503	MM	4.47418e-1	6.21145	2.77911		Methylene chloride
5.781	MM	2.77188	9.77084e-1	2.70836		Hexane
6.497	BB	2.65487	9.88461e-1	2.62424		Benzene
6.891	BB	9.01491e-1	2.97111	2.67843		Trichloroethene
7.565	BB	2.80098	9.35231e-1	2.61956		Toluene
7.836	BB	9.60342e-1	2.87554	2.76150		1,2 Dibromoethane
7.981	BB	1.14761	2.48385	2.85051		Tetrachloroethene

Manual Int. "IF" (KAM)

=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 02:25:59	Inj	: 4
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



External Standard Report

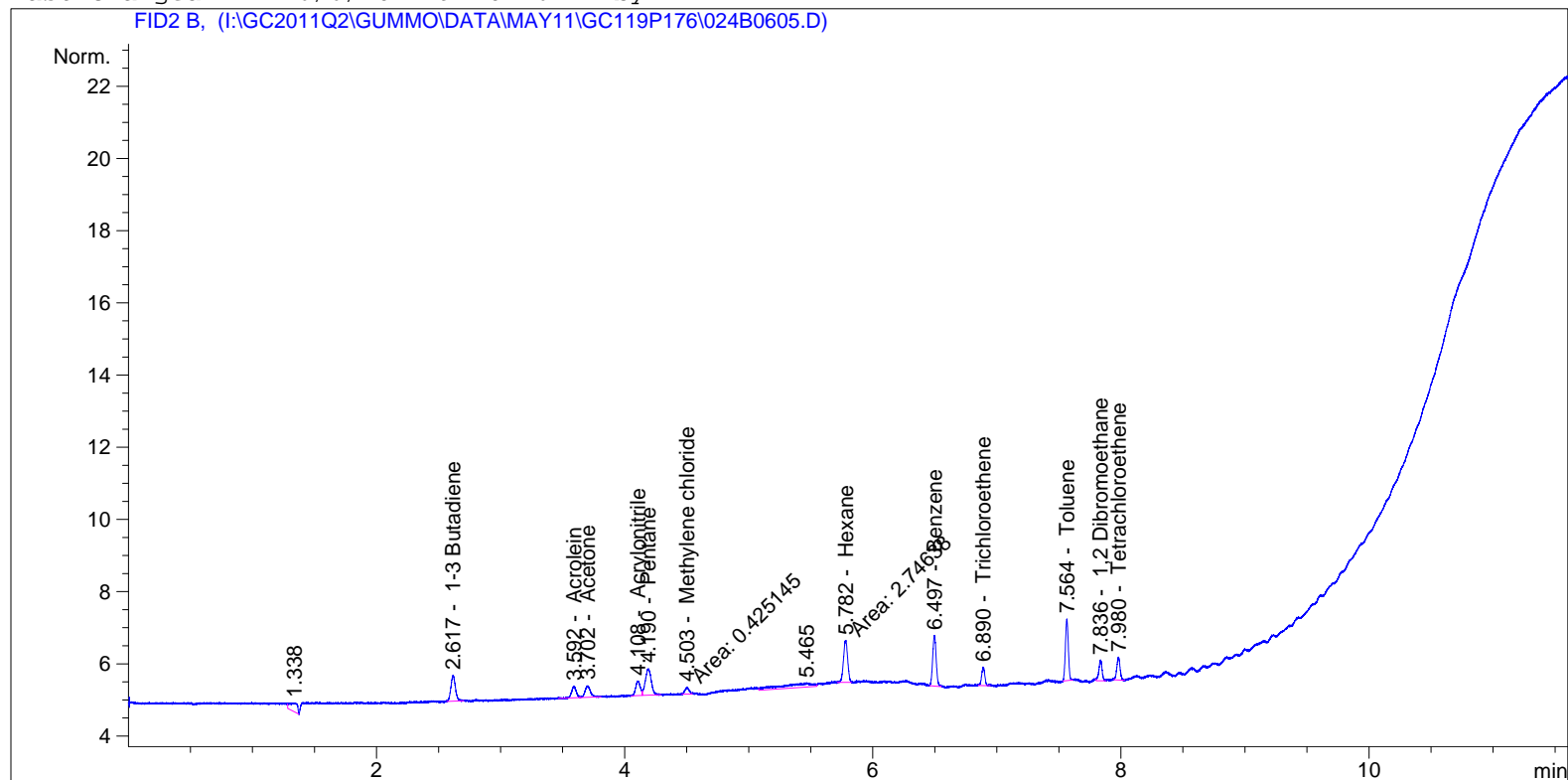
Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	MM	1.73157	1.43703	2.48831		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.593	MM	7.85820e-1	3.32187	2.61039		Acrolein
3.702	VB	1.00714	2.79611	2.81608		Acetone
4.107	BV	1.03781	2.62011	2.71917		Acrylonitrile
4.190	VB	2.40363	1.10195	2.64868		Pentane
4.503	MM	4.22207e-1	6.27865	2.65089		Methylene chloride
5.782	MM	2.64188	9.85801e-1	2.60437		Hexane
6.497	BB	2.70077	9.85393e-1	2.66131		Benzene
6.890	BB	8.60321e-1	2.97111	2.55611		Trichloroethene
7.565	BB	2.80850	9.35231e-1	2.62660		Toluene
7.836	BB	1.00491	2.87554	2.88967		1,2 Dibromoethane
7.981	BB	1.16463	2.48385	2.89276		Tetrachloroethene

Manual Int. "II" (KAM)

=====
Acq. Operator : stg Seq. Line : 6
Acq. Instrument : Gummo online Location : Vial 24
Injection Date : 25-May-11, 02:46:50 Inj : 5
Inj Volume : External
Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM
=====



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External Standard Report
=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

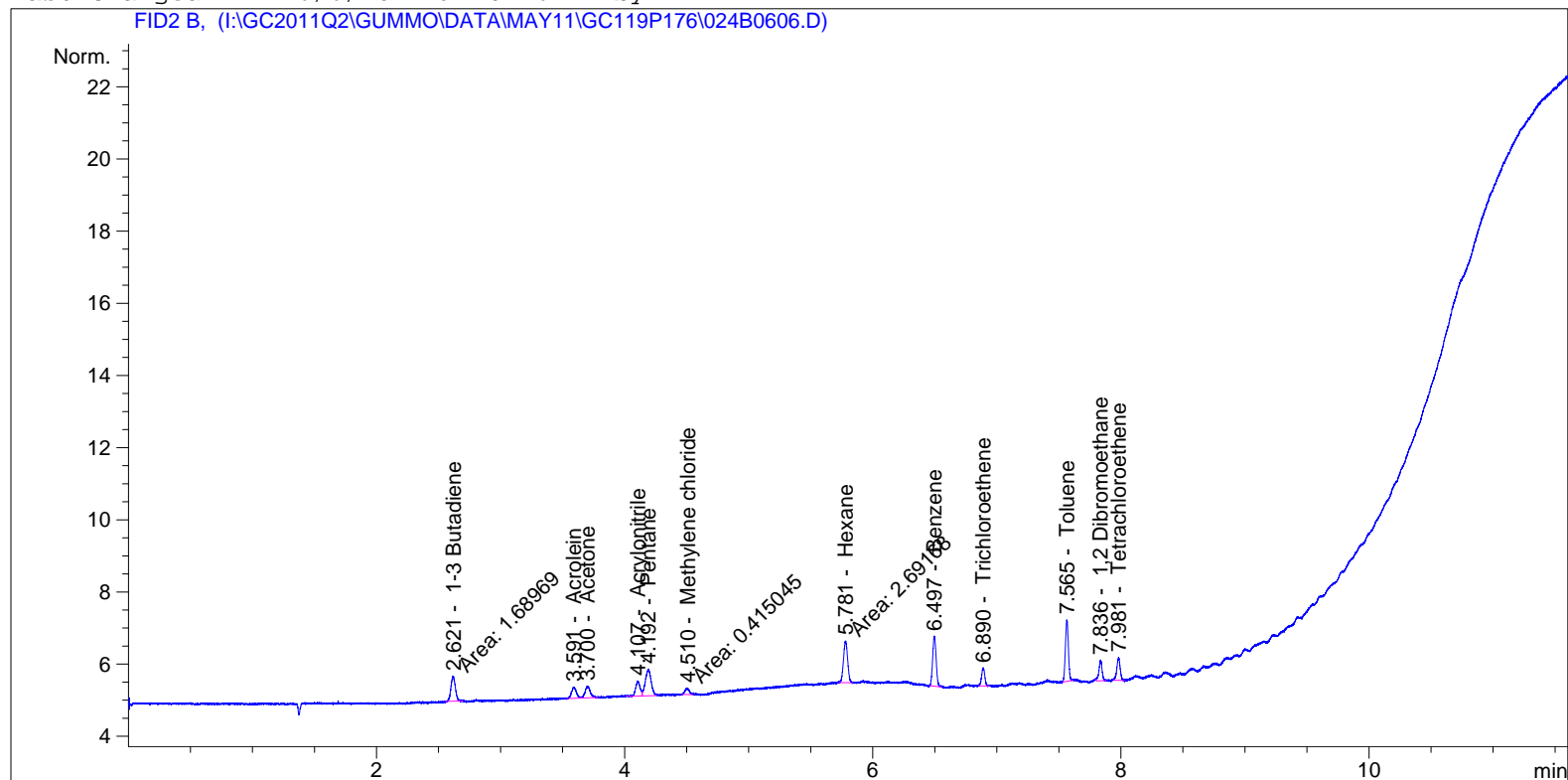
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BB	1.78973	1.43687	2.57160		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.592	BV	8.07510e-1	3.30401	2.66802		Acrolein
3.702	VB	9.48440e-1	2.79611	2.65194		Acetone
4.108	BV	1.02979	2.62011	2.69817		Acrylonitrile
4.190	VB	2.41214	1.10142	2.65679		Pentane
4.503	MM	4.25145e-1	6.27041	2.66584		Methylene chloride
5.782	MM	2.74638	9.78729e-1	2.68796		Hexane
6.497	BB	2.76970	9.80975e-1	2.71701		Benzene
6.890	BB	9.06135e-1	2.97111	2.69222		Trichloroethene
7.564	BB	2.80065	9.35231e-1	2.61925		Toluene
7.836	BB	1.02783	2.87554	2.95558		1,2 Dibromoethane
7.980	BB	1.13788	2.48385	2.82632		Tetrachloroethene

Manual Int. "II" (KAM)

=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 03:07:44	Inj	: 6
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

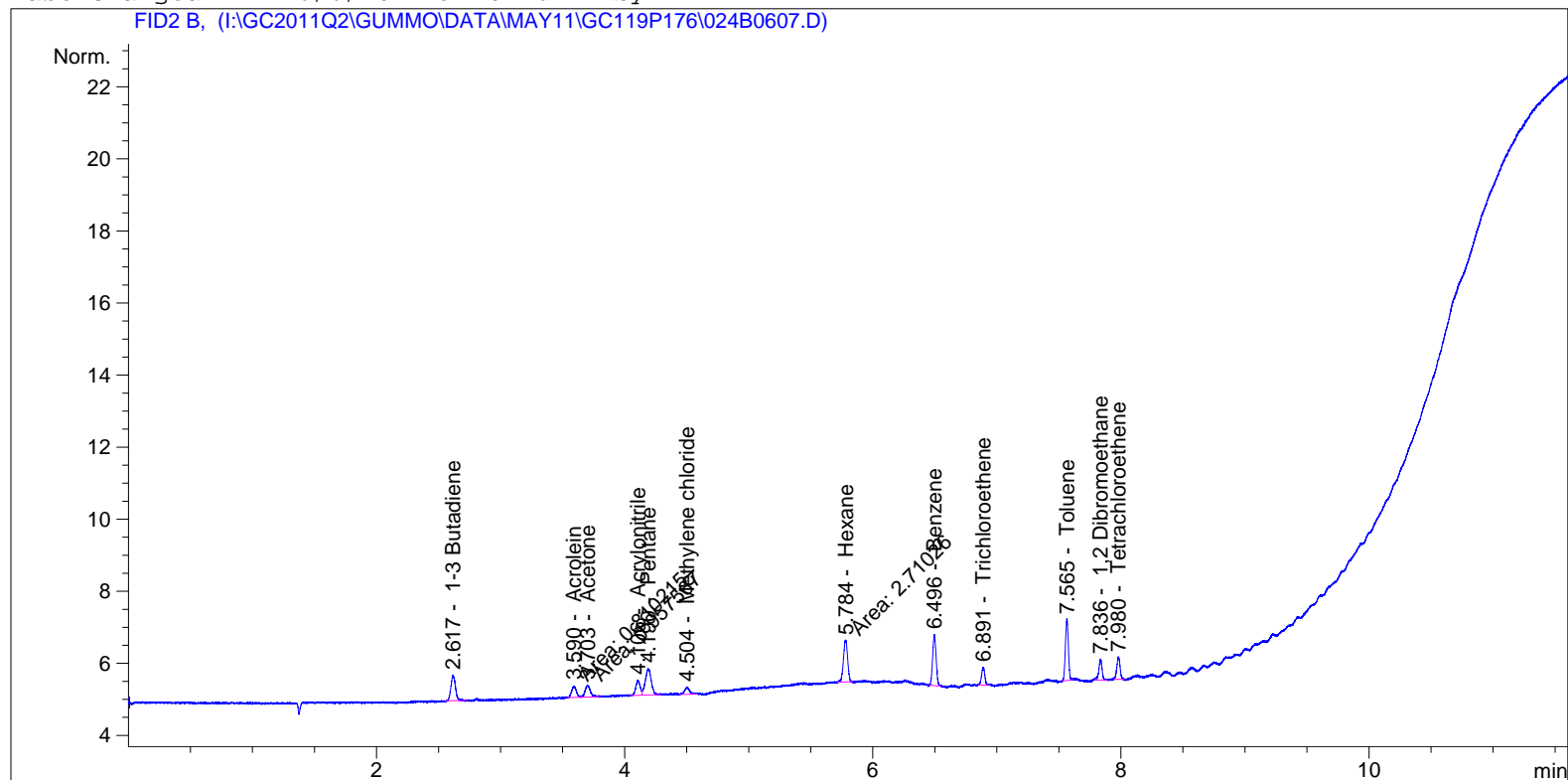
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.621	MM	1.68969	1.43703	2.42814		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.591	BV	8.16480e-1	3.29691	2.69186		Acrolein
3.700	VB	9.36161e-1	2.79611	2.61761		Acetone
4.107	BV	1.03000	2.62011	2.69872		Acrylonitrile
4.192	VV	2.38257	1.10326	2.62860		Pentane
4.510	MM	4.15045e-1	6.29924	2.61446		Methylene chloride
5.781	MM	2.69168	9.82363e-1	2.64420		Hexane
6.497	BB	2.69517	9.85761e-1	2.65679		Benzene
6.890	BB	8.82700e-1	2.97111	2.62259		Trichloroethene
7.565	BB	2.85081	9.35231e-1	2.66617		Toluene
7.836	BB	9.93097e-1	2.87554	2.85569		1,2 Dibromoethane
7.981	BB	1.15238	2.48385	2.86235		Tetrachloroethene

Manual Int. "II" (KAM)

=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 03:28:45	Inj	: 7
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

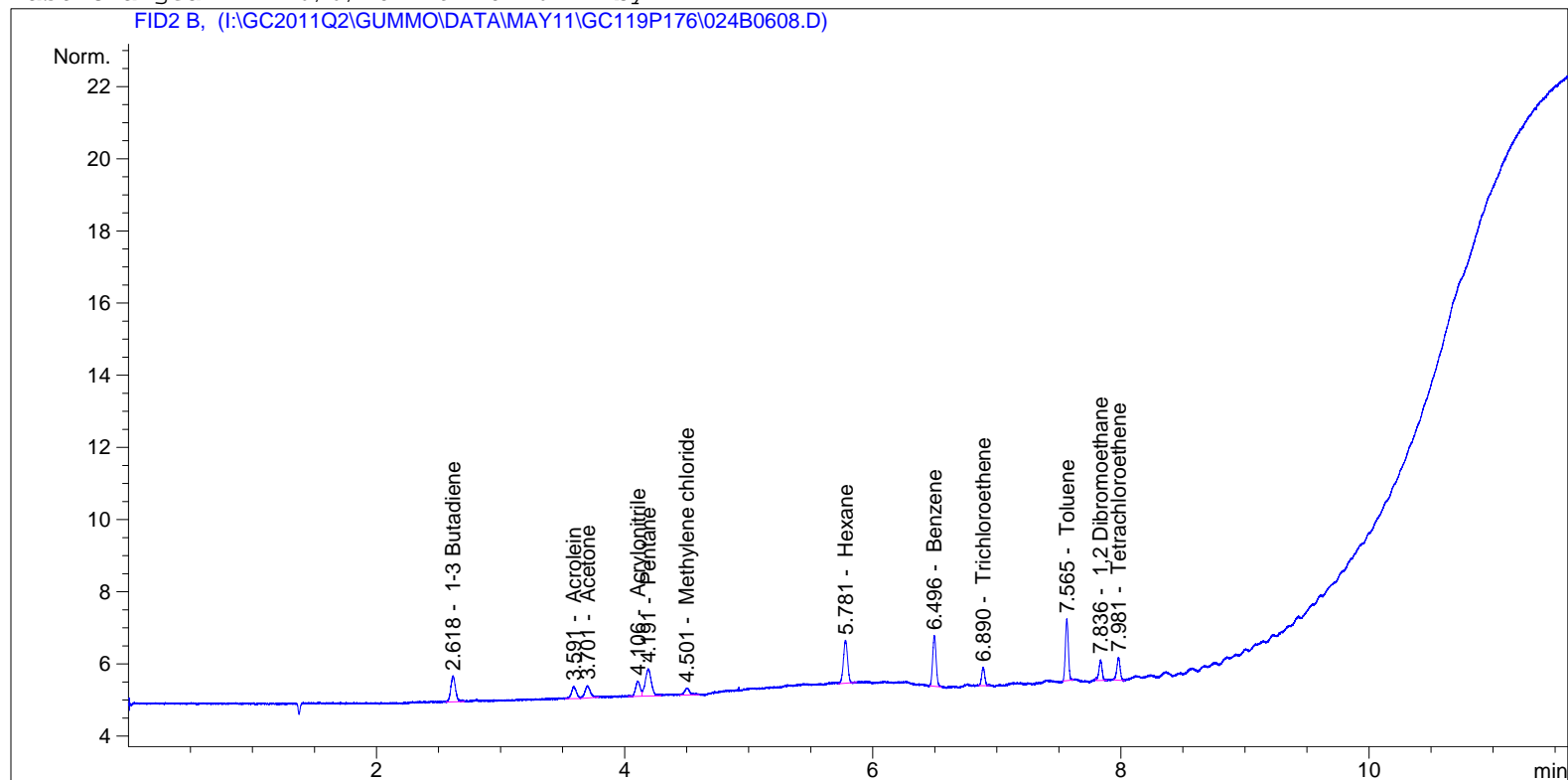
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BB	1.73768	1.43703	2.49709		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.590	MF	8.10215e-1	3.30185	2.67521		Acrolein
3.703	FM	9.57567e-1	2.79611	2.67746		Acetone
4.106	BV	1.01872	2.62011	2.66916		Acrylonitrile
4.190	VB	2.39815	1.10229	2.64345		Pentane
4.504	BB	5.26038e-1	6.04323	3.17897		Methylene chloride
5.784	MM	2.71026	9.81112e-1	2.65907		Hexane
6.496	BB	2.72864	9.83579e-1	2.68384		Benzene
6.891	BB	9.09232e-1	2.97111	2.70143		Trichloroethene
7.565	BB	2.84913	9.35231e-1	2.66460		Toluene
7.836	BB	1.00344	2.87554	2.88544		1,2 Dibromoethane
7.980	BB	1.12483	2.48385	2.79391		Tetrachloroethene

Manual Int. "I" (KAM)

=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 03:49:59	Inj	: 8
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



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External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	BB	1.89591	1.42436	2.70046		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.591	BV	9.11124e-1	3.23045	2.94334		Acrolein
3.701	VB	1.03389	2.79611	2.89088		Acetone
4.106	BV	1.08953	2.62011	2.85470		Acrylonitrile
4.191	VB	2.58416	1.09156	2.82078		Pentane
4.501	BB	6.12391e-1	5.90825	3.61816		Methylene chloride
5.781	VB	2.77153	9.77107e-1	2.70808		Hexane
6.496	BB	2.70515	9.85105e-1	2.66486		Benzene
6.890	BB	8.91355e-1	2.97111	2.64831		Trichloroethene
7.565	BB	2.84549	9.35231e-1	2.66119		Toluene
7.836	BB	1.00585	2.87554	2.89236		1,2 Dibromoethane
7.981	BB	1.16774	2.48385	2.90049		Tetrachloroethene

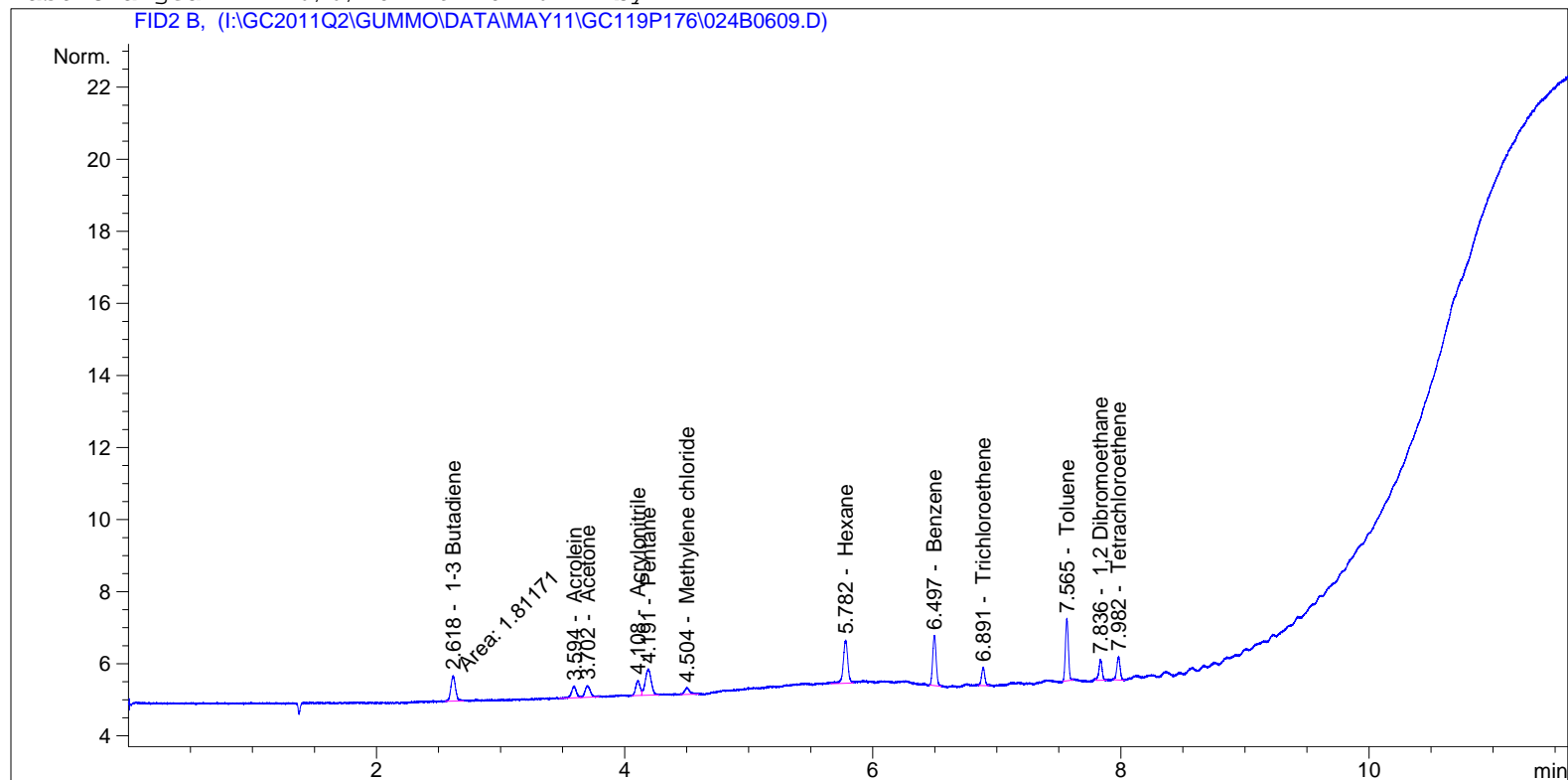
Base Analytical
FSD 1108-200

FHR Pine Bend LLC
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=====

Acq. Operator	: stg	Seq. Line	: 6
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 25-May-11, 04:11:01	Inj	: 9
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 9:40:26 AM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 9:38:24 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

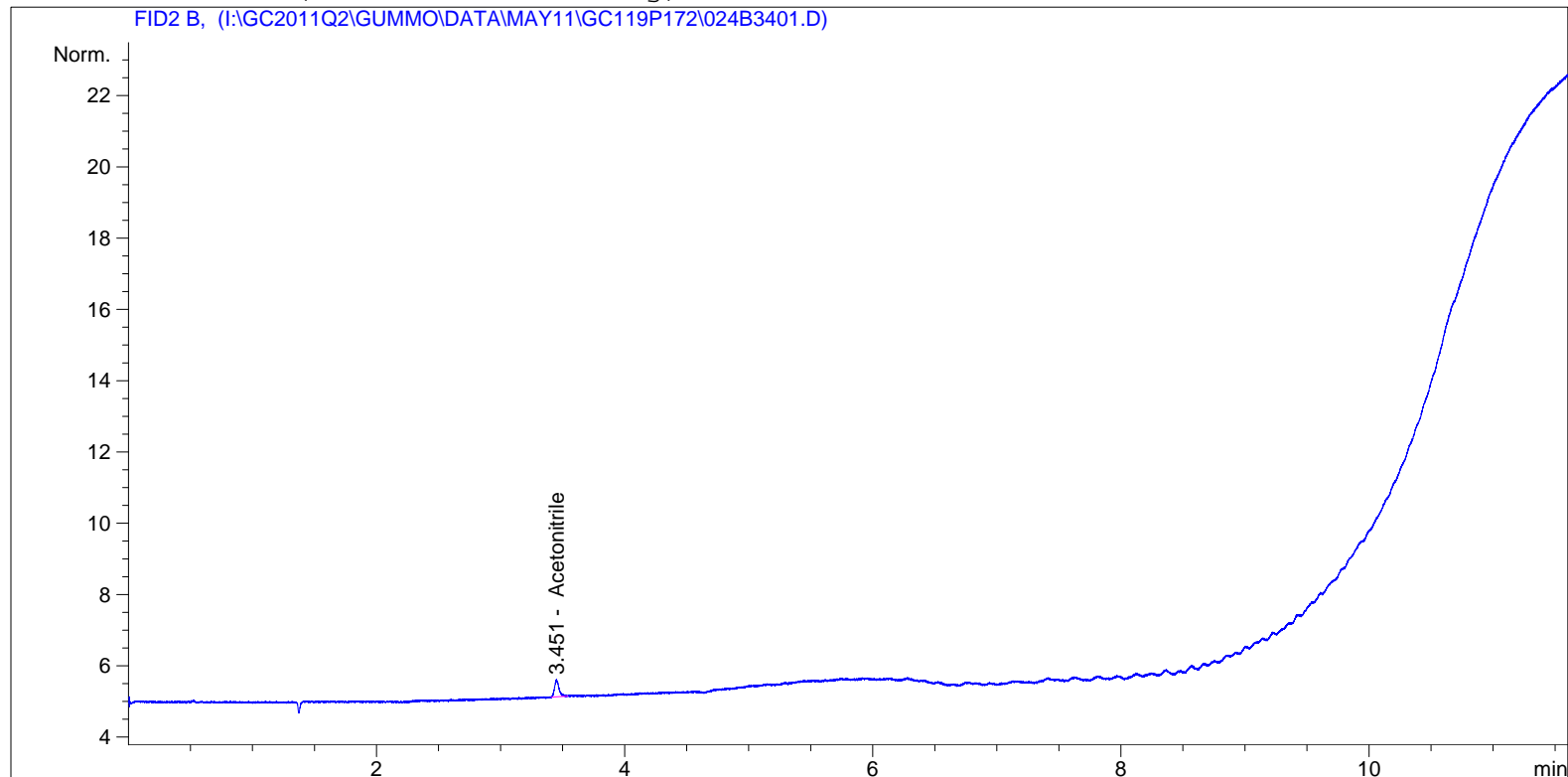
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	MM	1.81171	1.43416	2.59828		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.594	BV	8.36638e-1	3.28149	2.74542		Acrolein
3.702	VB	9.46384e-1	2.79611	2.64619		Acetone
4.108	BV	1.00886	2.62011	2.64333		Acrylonitrile
4.191	VV	2.41897	1.10101	2.66330		Pentane
4.504	BB	5.21404e-1	6.05174	3.15540		Methylene chloride
5.782	VV	3.03985	9.61469e-1	2.92272		Hexane
6.497	BB	2.70669	9.85004e-1	2.66610		Benzene
6.891	BB	9.04341e-1	2.97111	2.68689		Trichloroethene
7.565	BB	2.88958	9.35231e-1	2.70242		Toluene
7.836	BB	1.02124	2.87554	2.93662		1,2 Dibromoethane
7.982	BB	1.18346	2.48385	2.93954		Tetrachloroethene

Manual Int. "IP" (KAM)

```
=====
Acq. Operator   : tbo                      Seq. Line :   34
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 18:29:21      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.451	BB	1.15513	4.15030	4.79413		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN1 ENV(1=1010,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene
Totals :				4.79413		

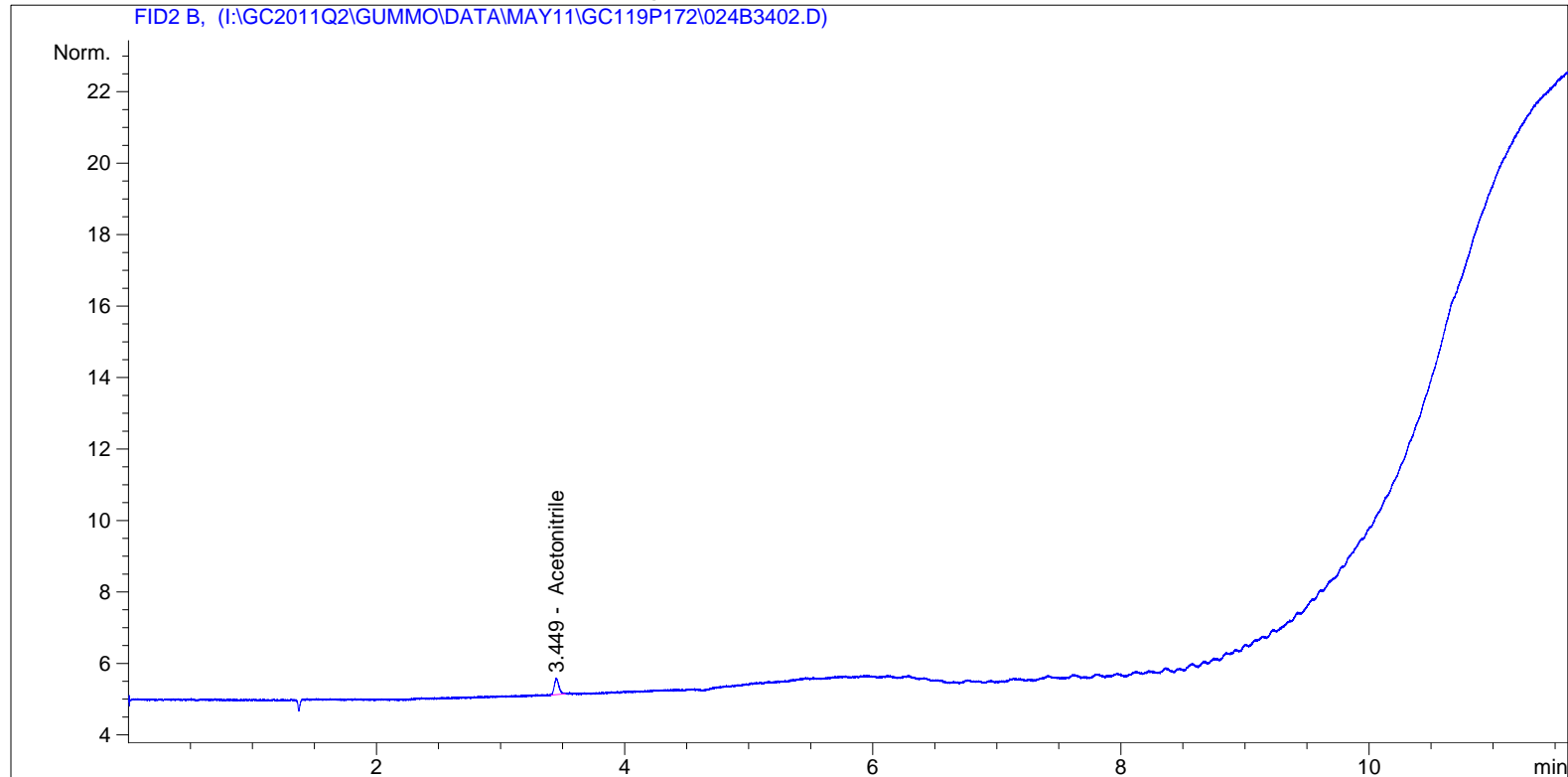
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   34
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 18:48:32      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Monday, June 06, 2011 10:20:51 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.449	BB	1.14551	4.15030	4.75423		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN1 ENV(1=1010,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 4.75423

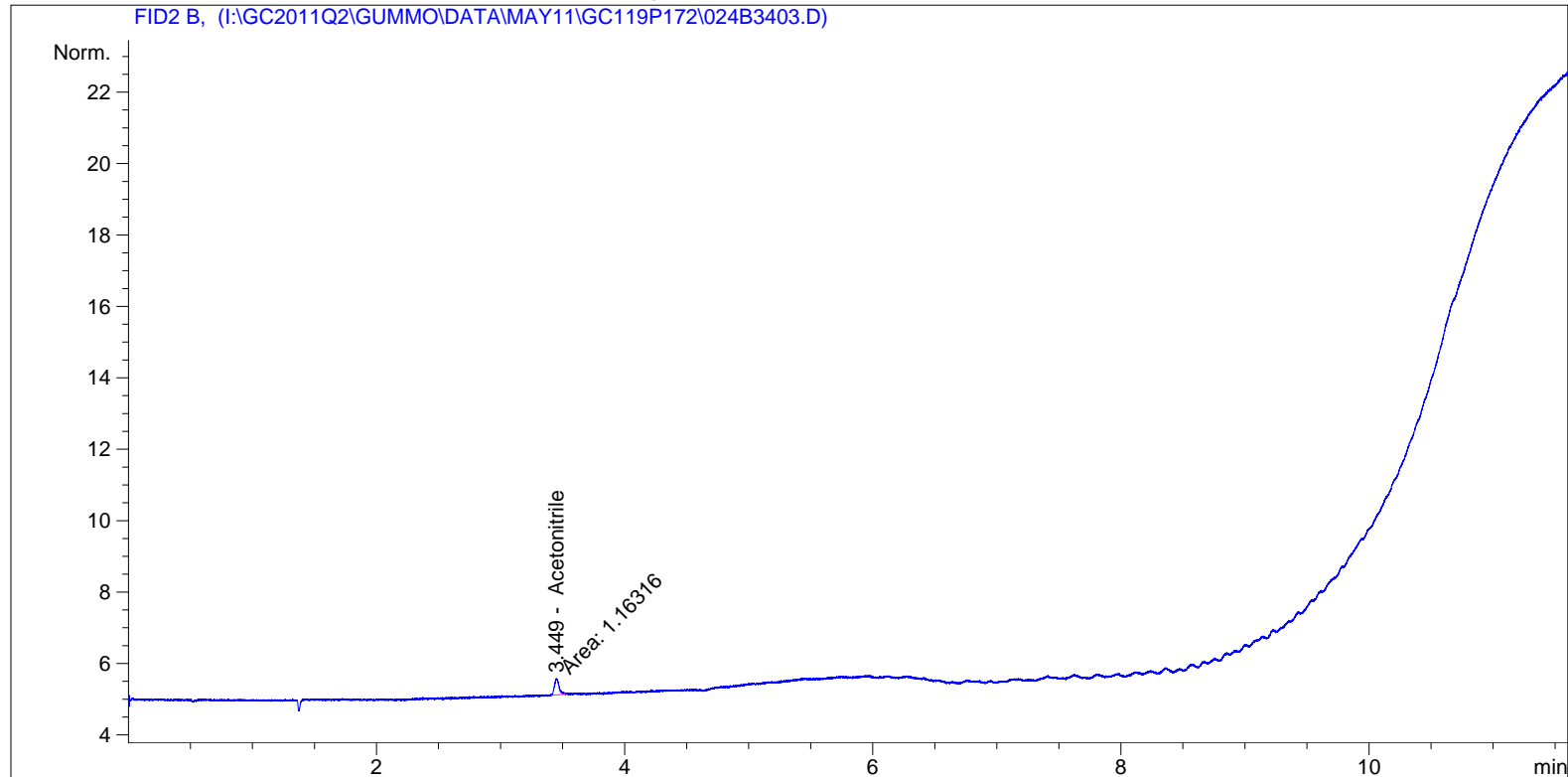
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   34
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 19:07:50      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 6/6/2011 4:37:06 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.449	MM	1.16316	4.15030	4.82747		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

Manual Int. "IP" (KAM)

Sample Name: gc119p172 #AN1 ENV(1=1010,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 4.82747

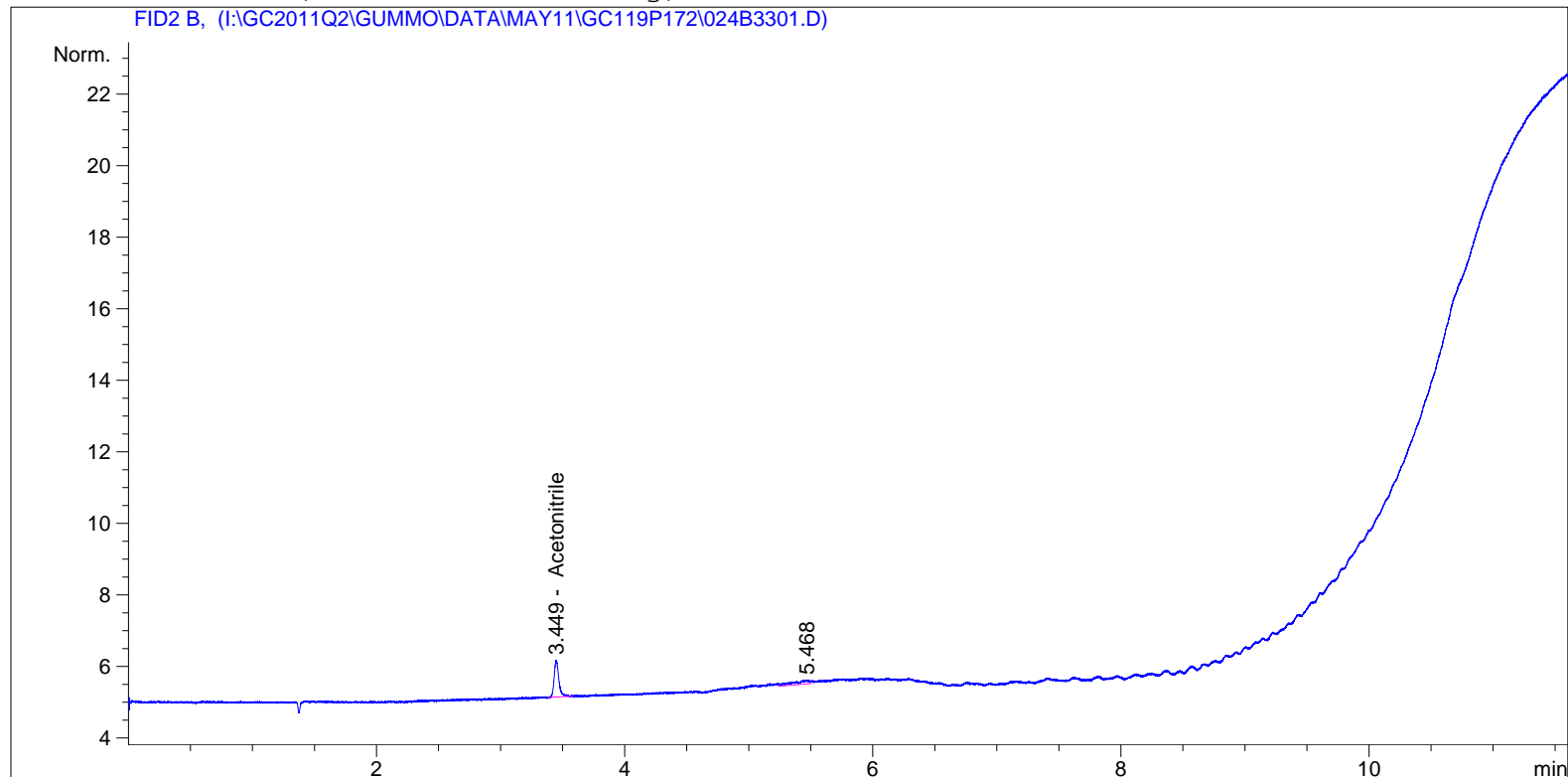
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   33
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 17:31:32      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:37:06 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.449	BB	2.68690	3.79240	10.18977		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN2 ENV(1=960,2=40)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 10.18977

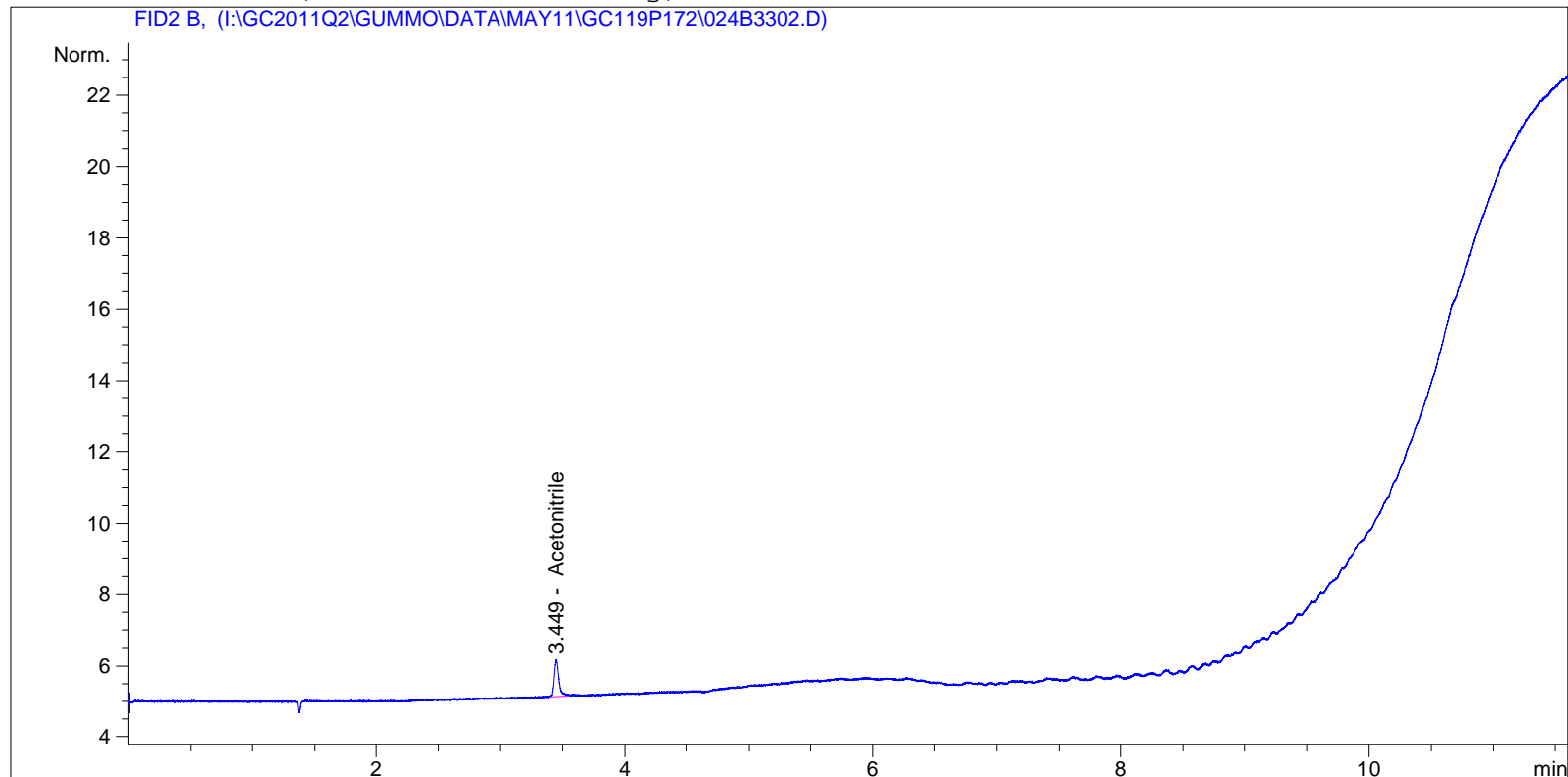
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   33
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 17:50:53      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:37:06 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.449	BV	2.73580	3.78747	10.36173		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

FHR Pine Bend LLC
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Sample Name: gc119p172 #AN2 ENV(1=960,2=40)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981	-	-	-	-	-	Tetrachloroethene

Totals : 10.36173

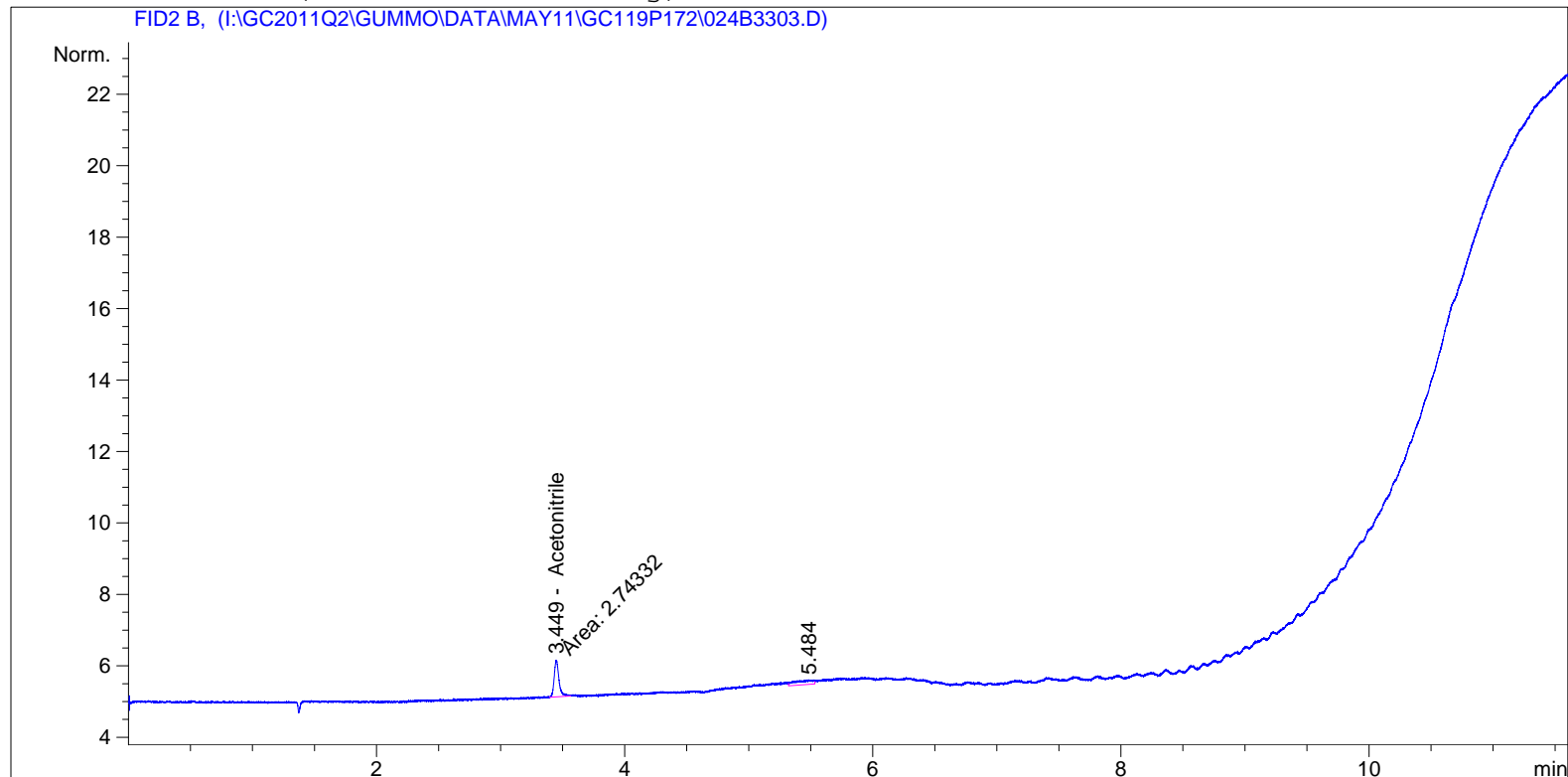
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                               Seq. Line :   33
Acq. Instrument : Gummo online                       Location  : Vial 24
Injection Date  : 22-May-11, 18:10:06                Inj       :    3
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:37:06 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.449	MM	2.74332	3.78672	10.38820		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

Manual Int. "II" (KAM)

Sample Name: gc119p172 #AN2 ENV(1=960,2=40)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981	-	-	-	-	-	Tetrachloroethene

Totals : 10.38820

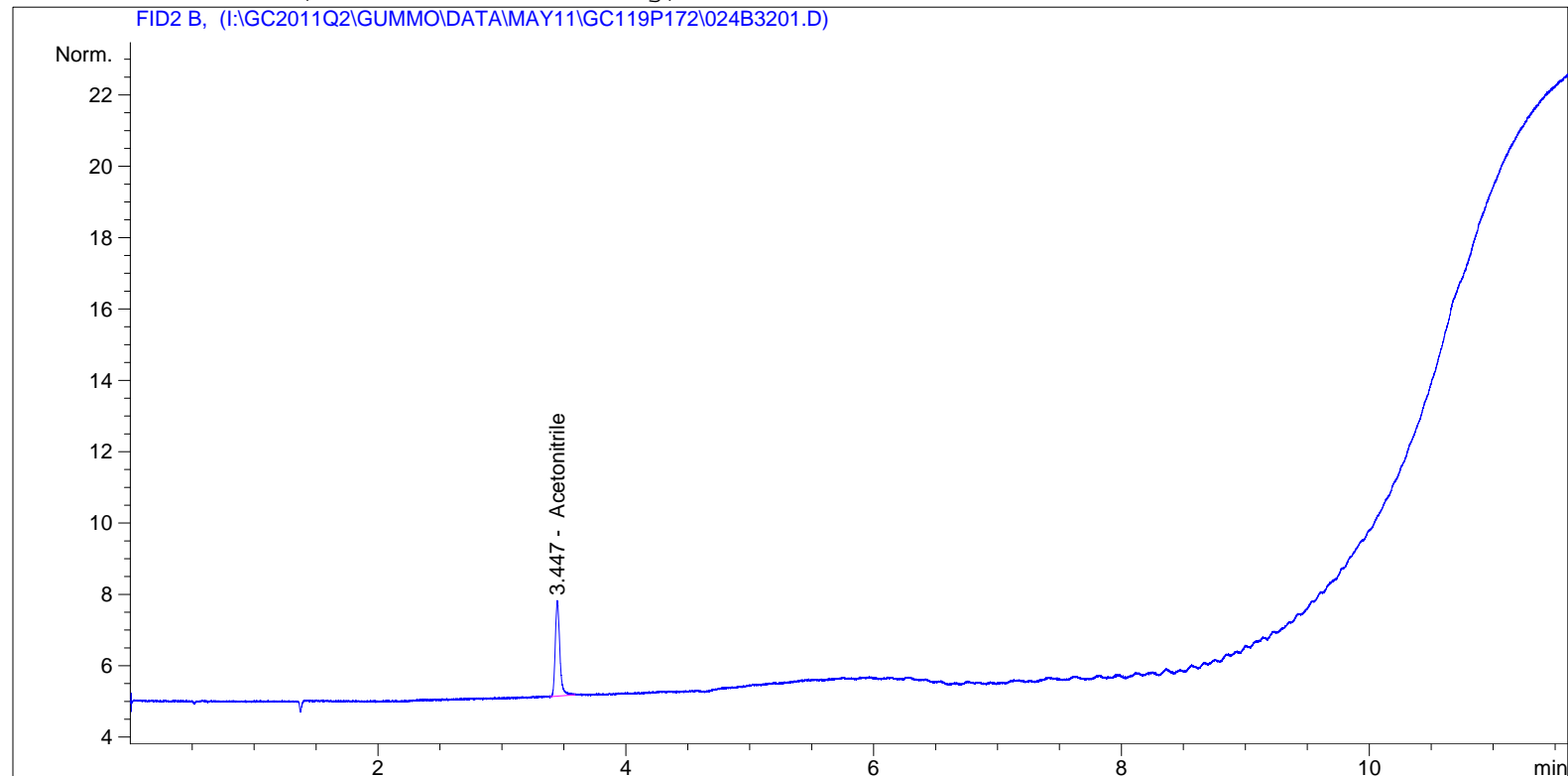
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   32
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 16:33:54      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:37:06 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.447	BB	6.87636	3.62432	24.92212		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

Sample Name: gc119p172 #AN3 ENV(1=900,2=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 24.92212

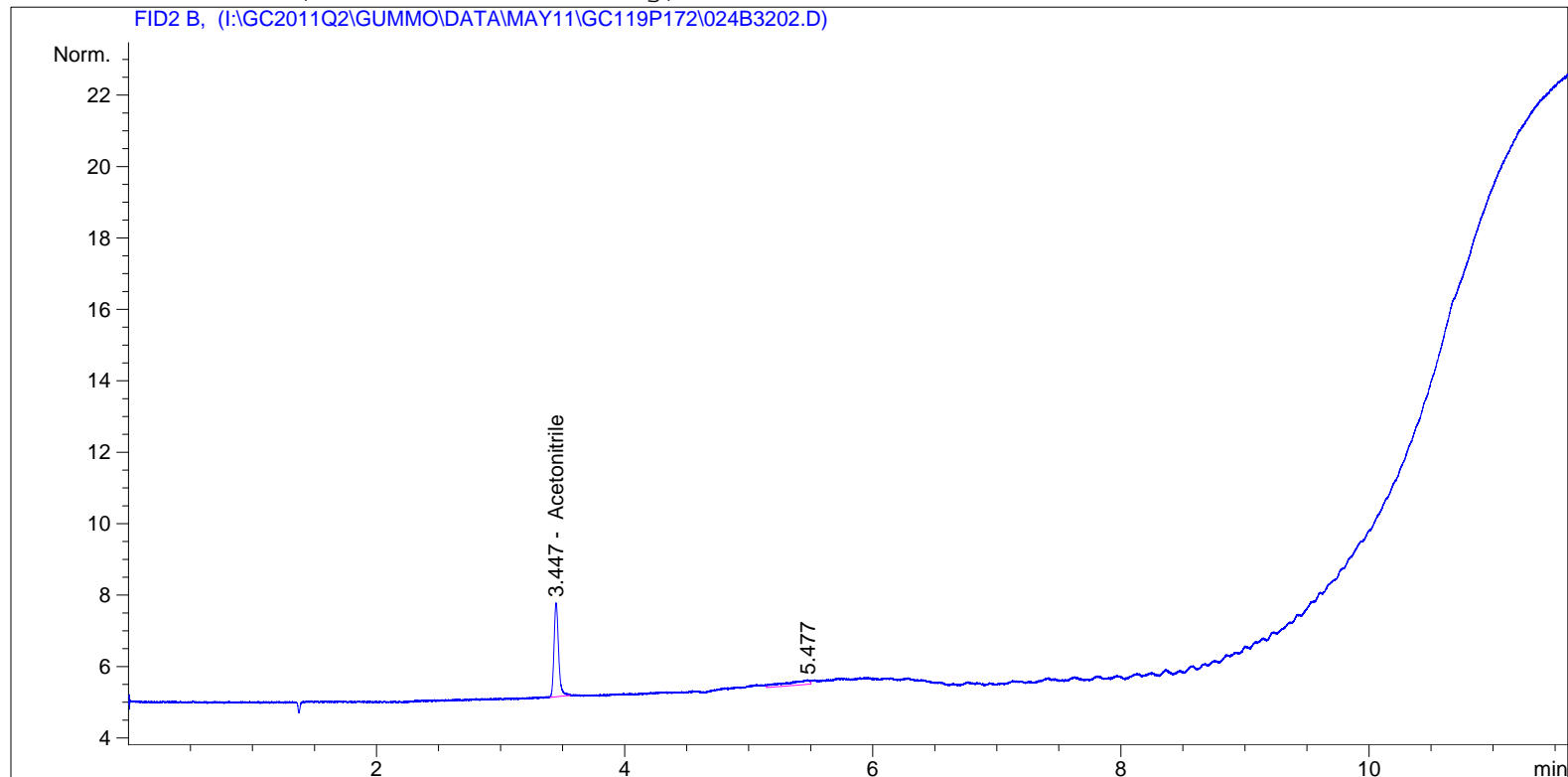
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   32
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 16:53:03      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:37:06 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.447	BB	6.70172	3.62713	24.30800		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN3 ENV(1=900,2=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 24.30800

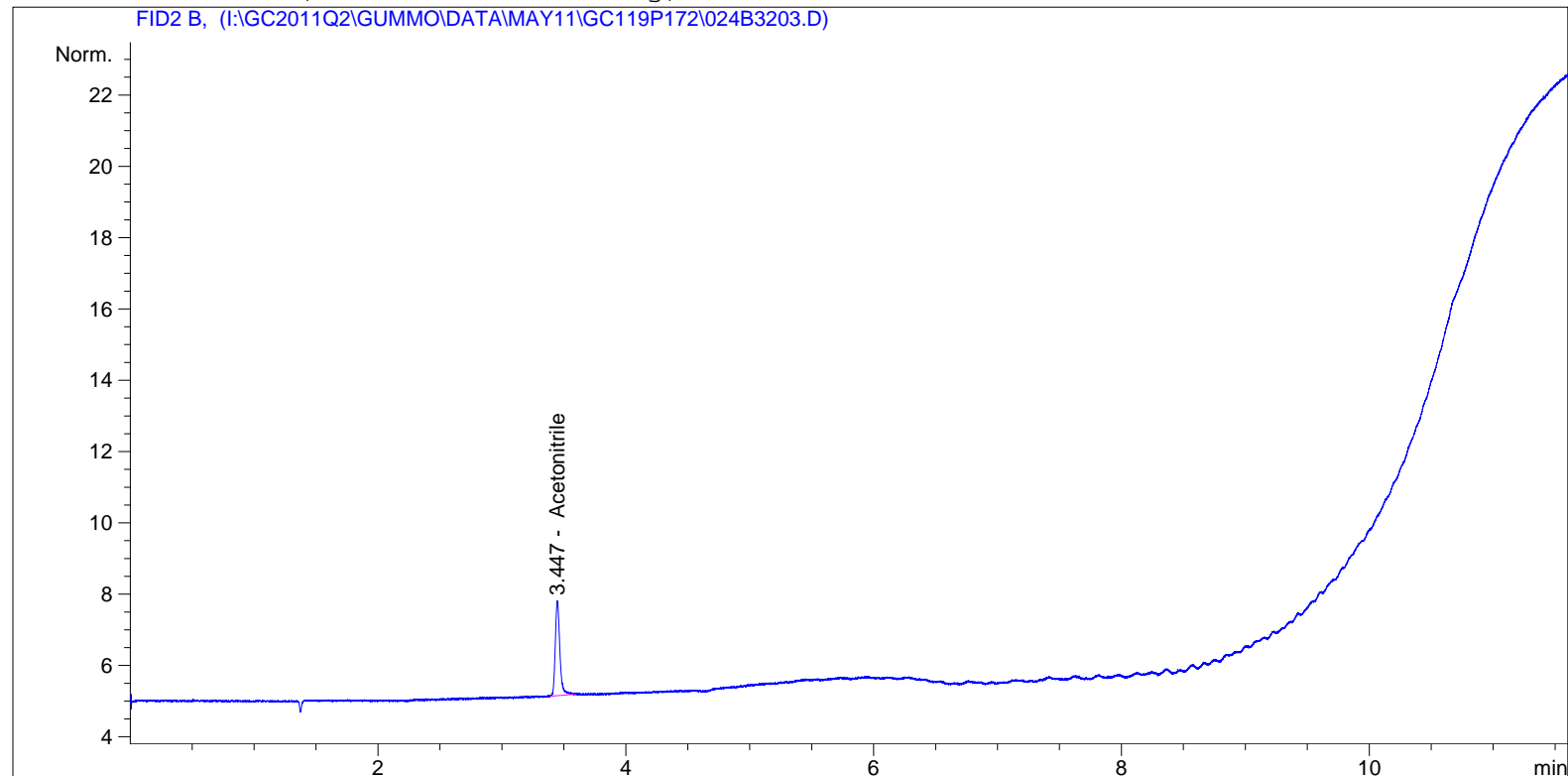
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
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Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 17:12:17      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:37:06 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.447	BB	6.80183	3.62550	24.66004		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN3 ENV(1=900,2=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 24.66004

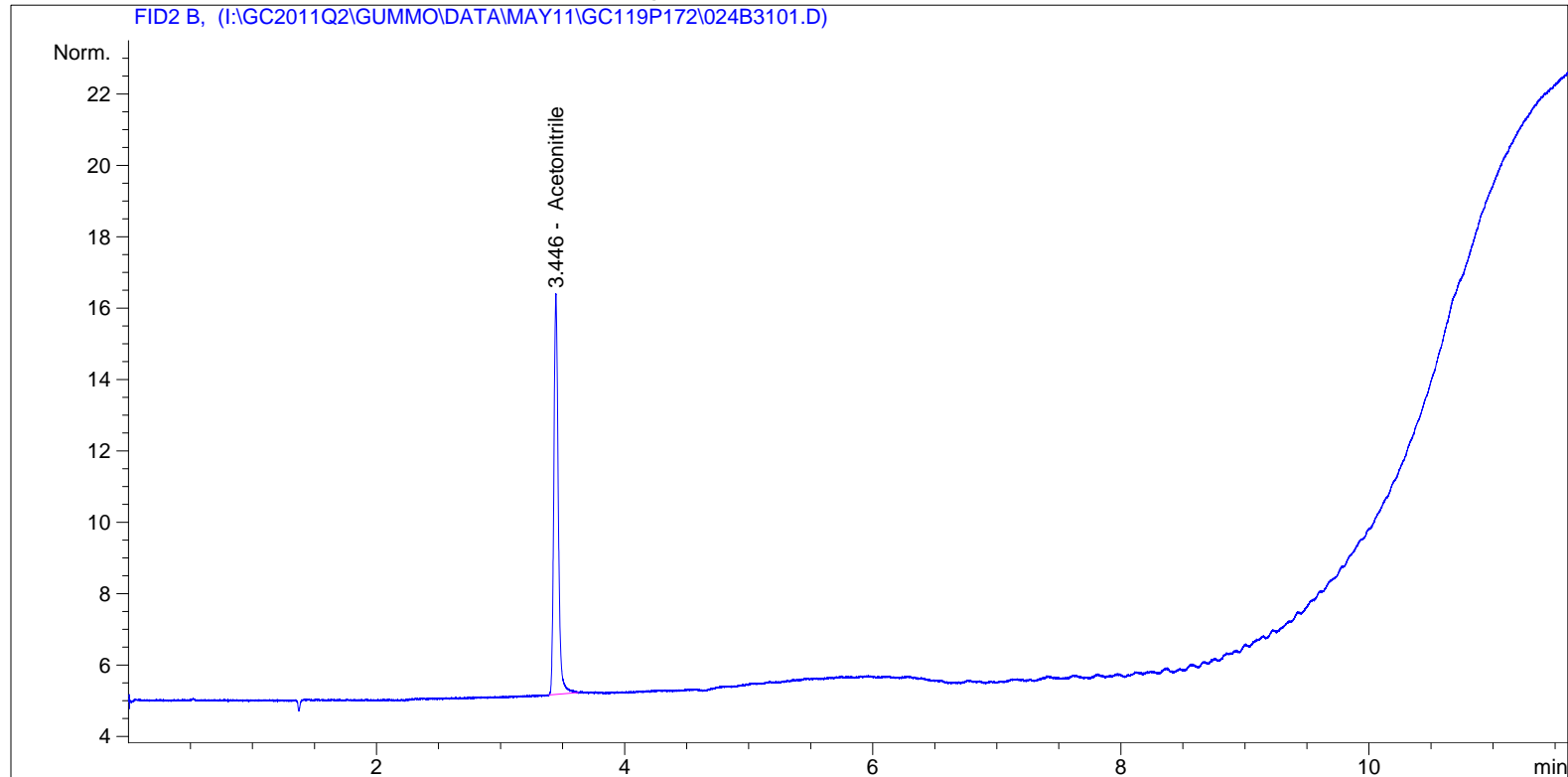
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   31
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 15:35:53      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:37:06 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.446	BB	28.03072	3.54297	99.31195		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

Sample Name: gc119p172 #AN4 ENV(1=600,2=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 99.31195

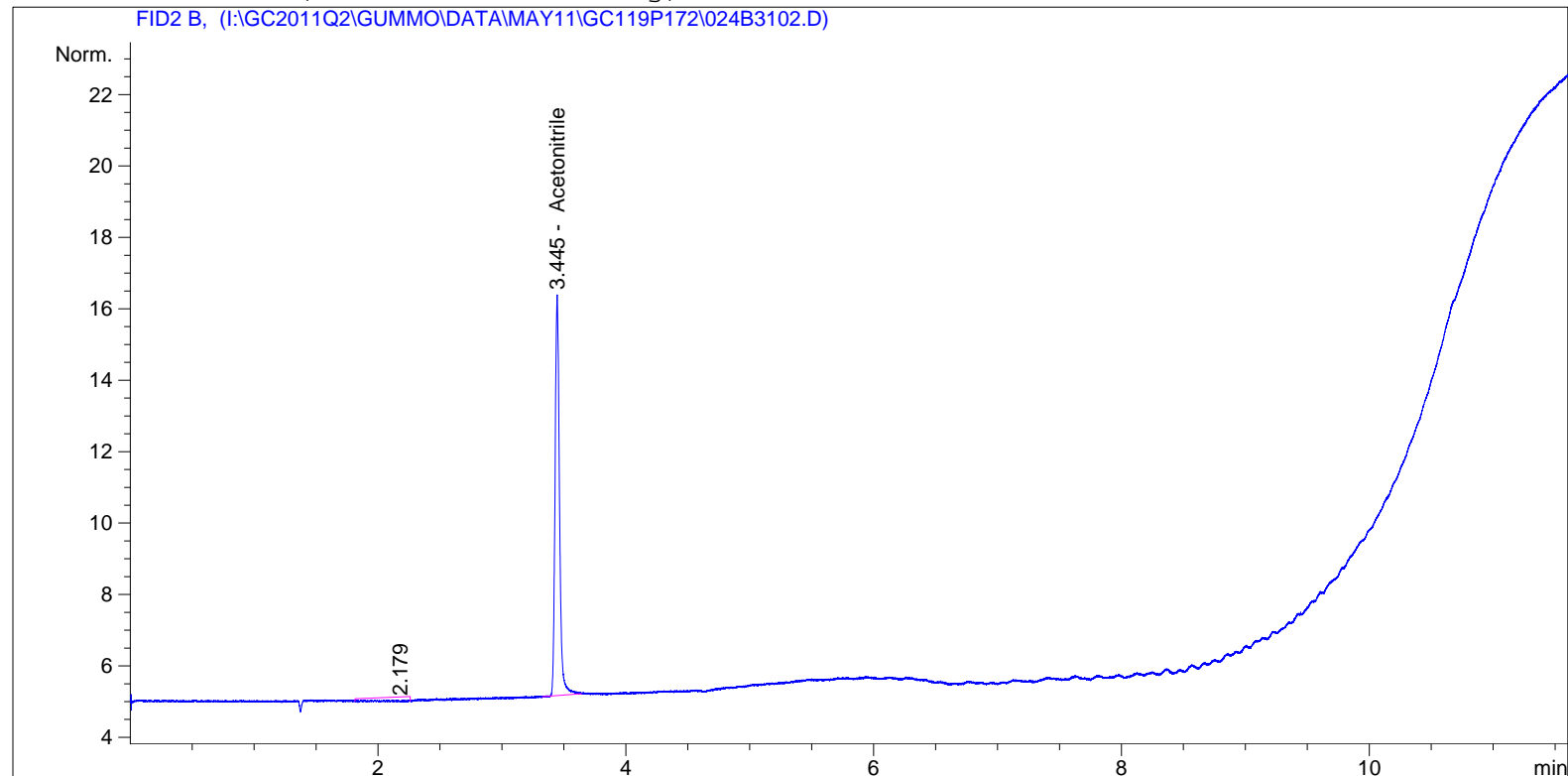
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   31
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 15:55:10      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                  (modified after loading)
=====
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=====
                        External Standard Report
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```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:37:06 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.445	BB	28.15088	3.54285	99.73448		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN4 ENV(1=600,2=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 99.73448

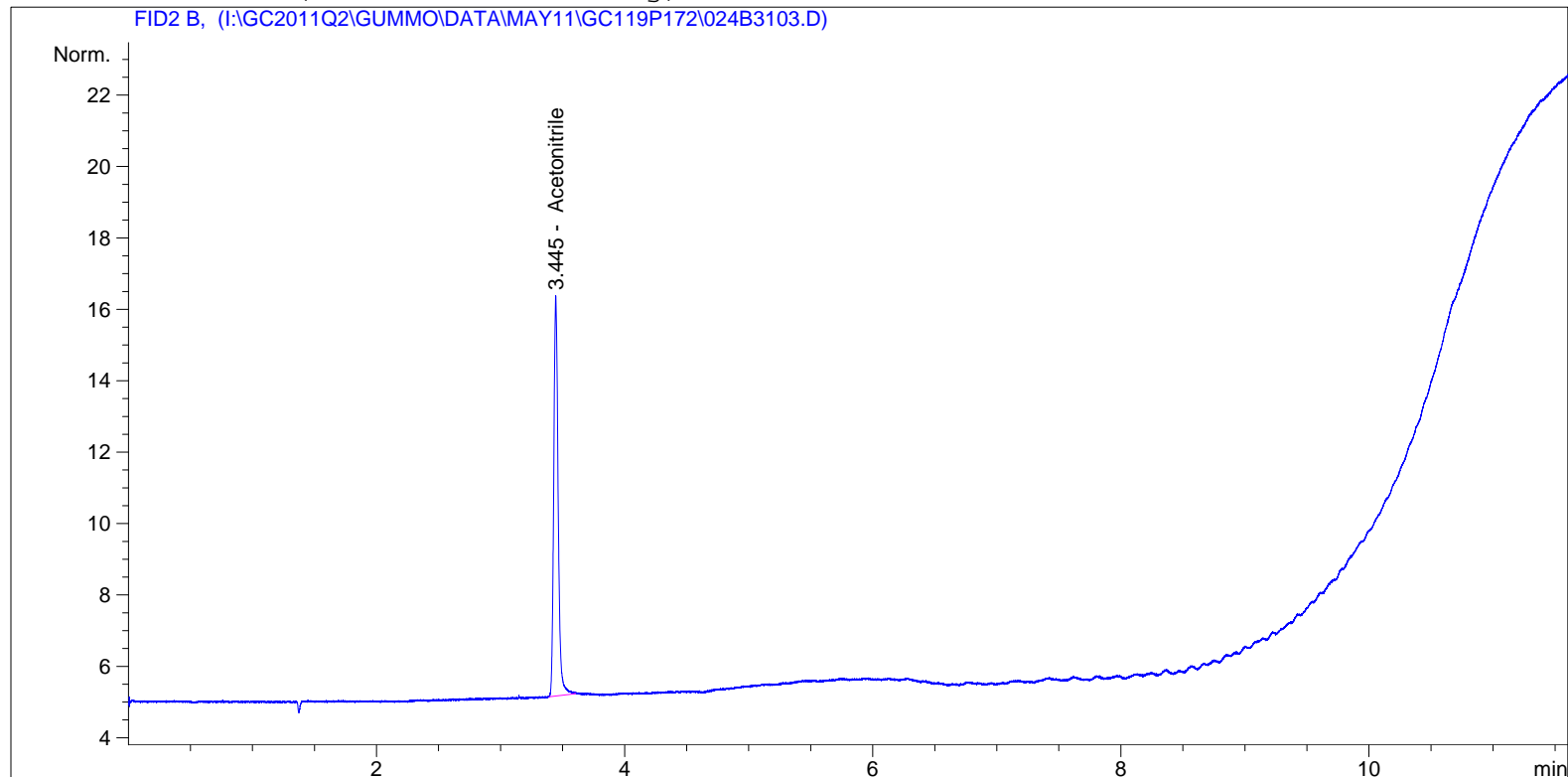
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   31
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 16:14:34      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                (modified after loading)
=====
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                        External Standard Report
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```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:37:06 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.445	BB	27.93542	3.54306	98.97681		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN4 ENV(1=600,2=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 98.97681

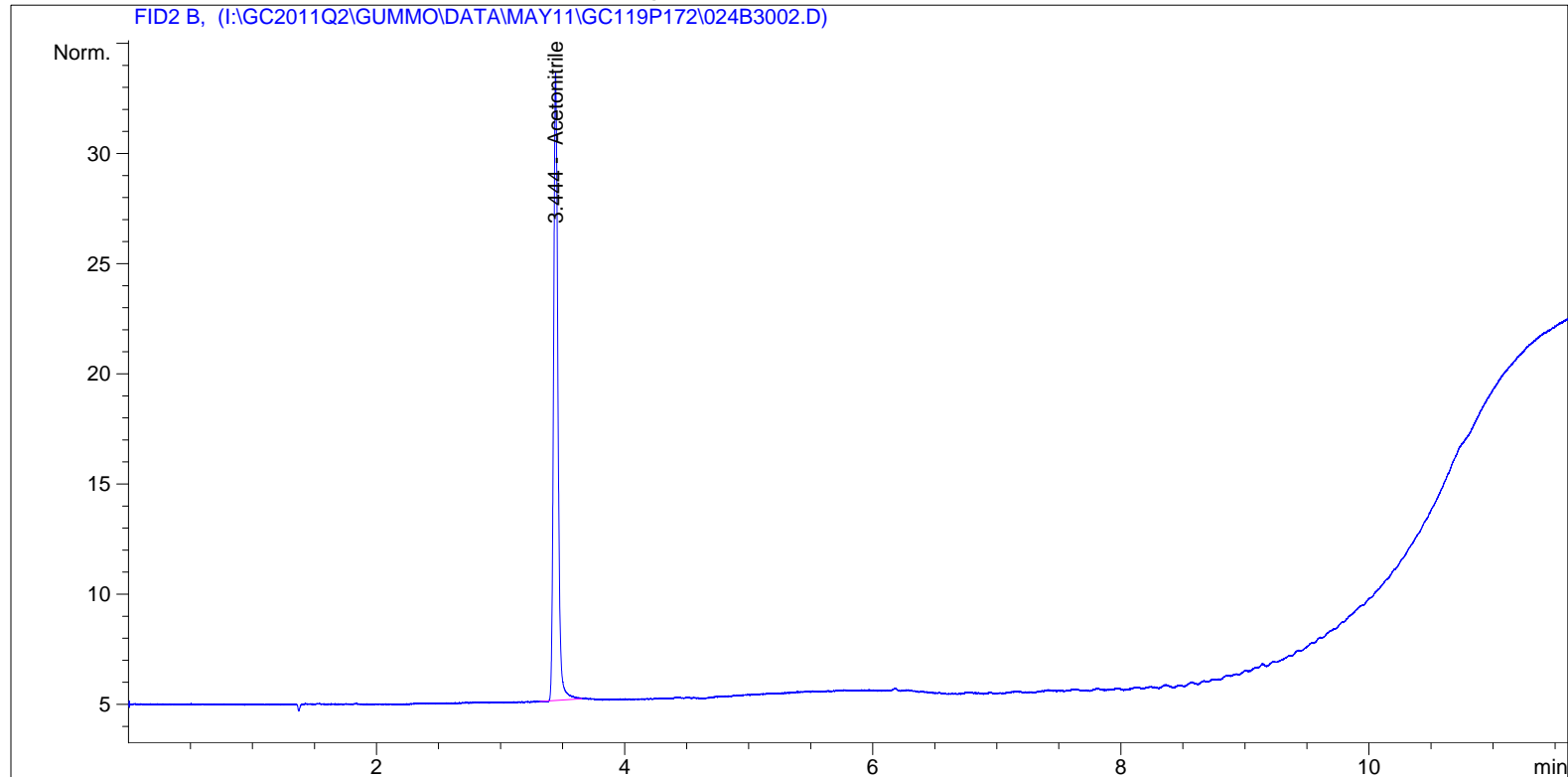
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   30
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 14:38:03      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                (modified after loading)
=====
```



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=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:37:06 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.444	BB	70.12820	3.52709	247.34874		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN5 ENV(1=0,2=350)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 247.34874

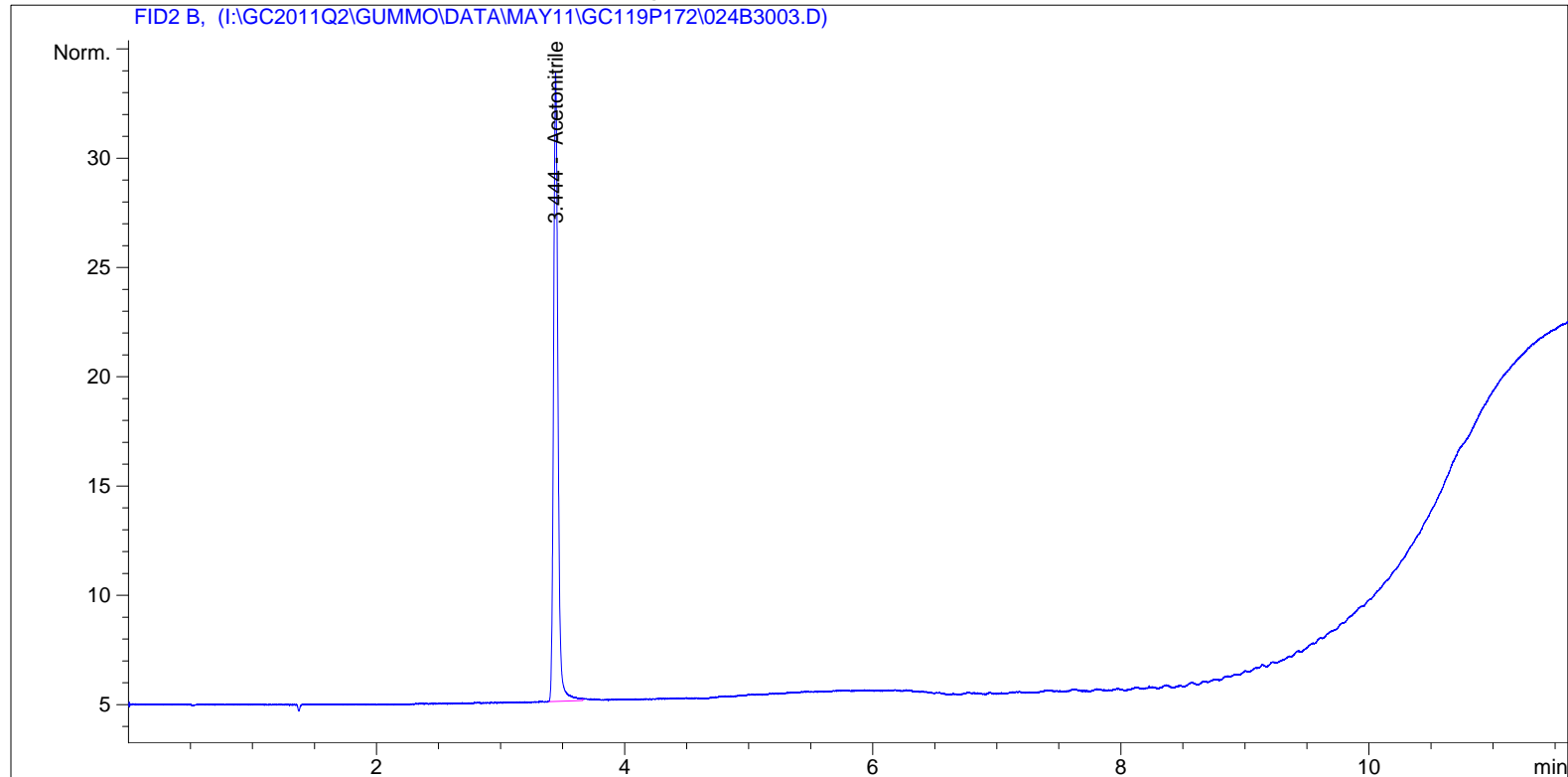
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   30
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 14:57:28      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:37:06 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.444	BB	71.40660	3.52690	251.84425		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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Sample Name: gc119p172 #AN5 ENV(1=0,2=350)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene

Totals : 251.84425

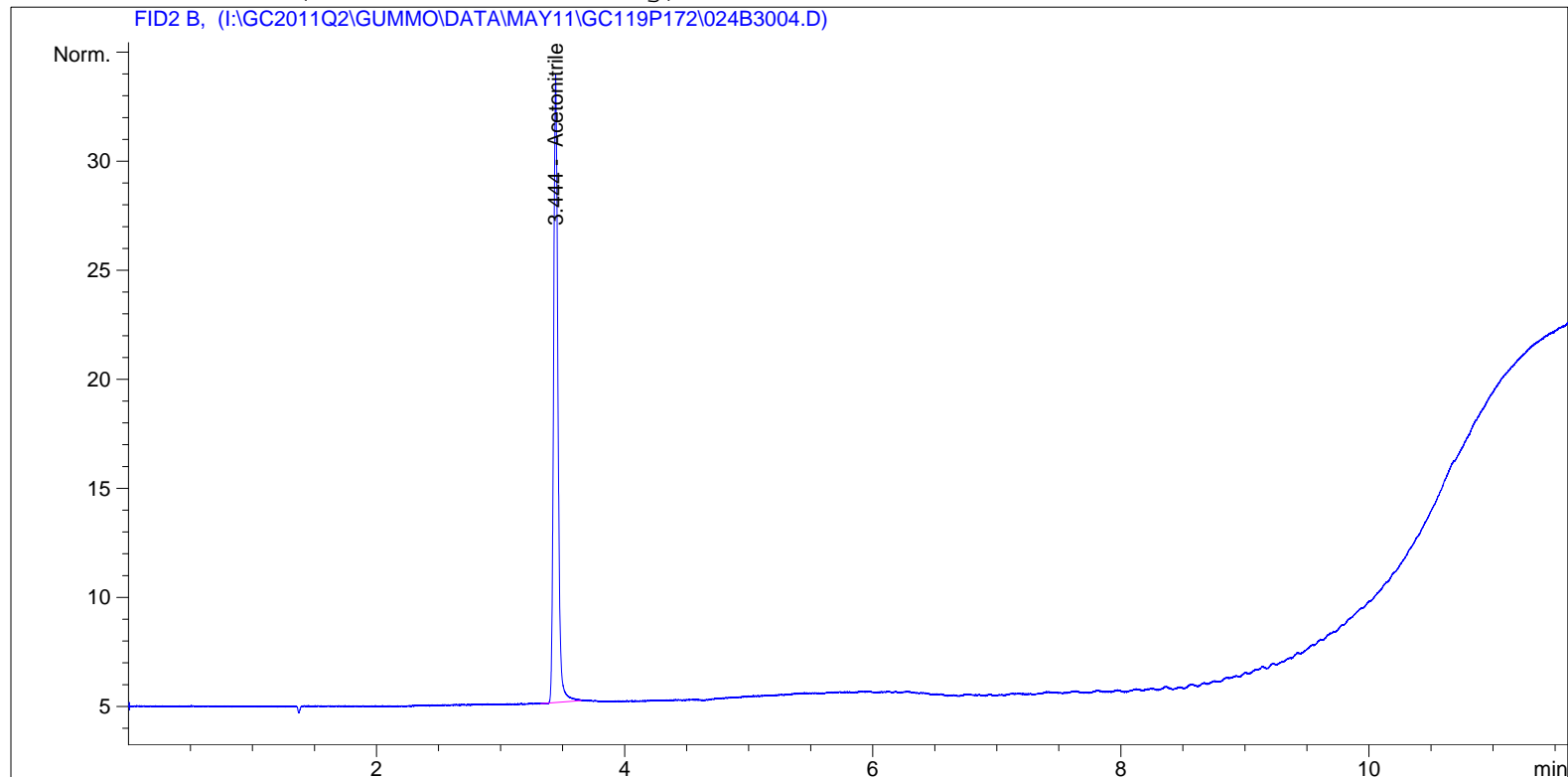
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   30
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 22-May-11, 15:16:40      Inj       :    4
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:20:51 PM by KAM
                (modified after loading)
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:37:06 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.444	BB	70.80573	3.52699	249.73128		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836	Pace Analytical FSD 1108-200	-	-	-		1,2 Dibromoethane

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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
7.981		-	-	-		Tetrachloroethene
Totals :				249.73128		

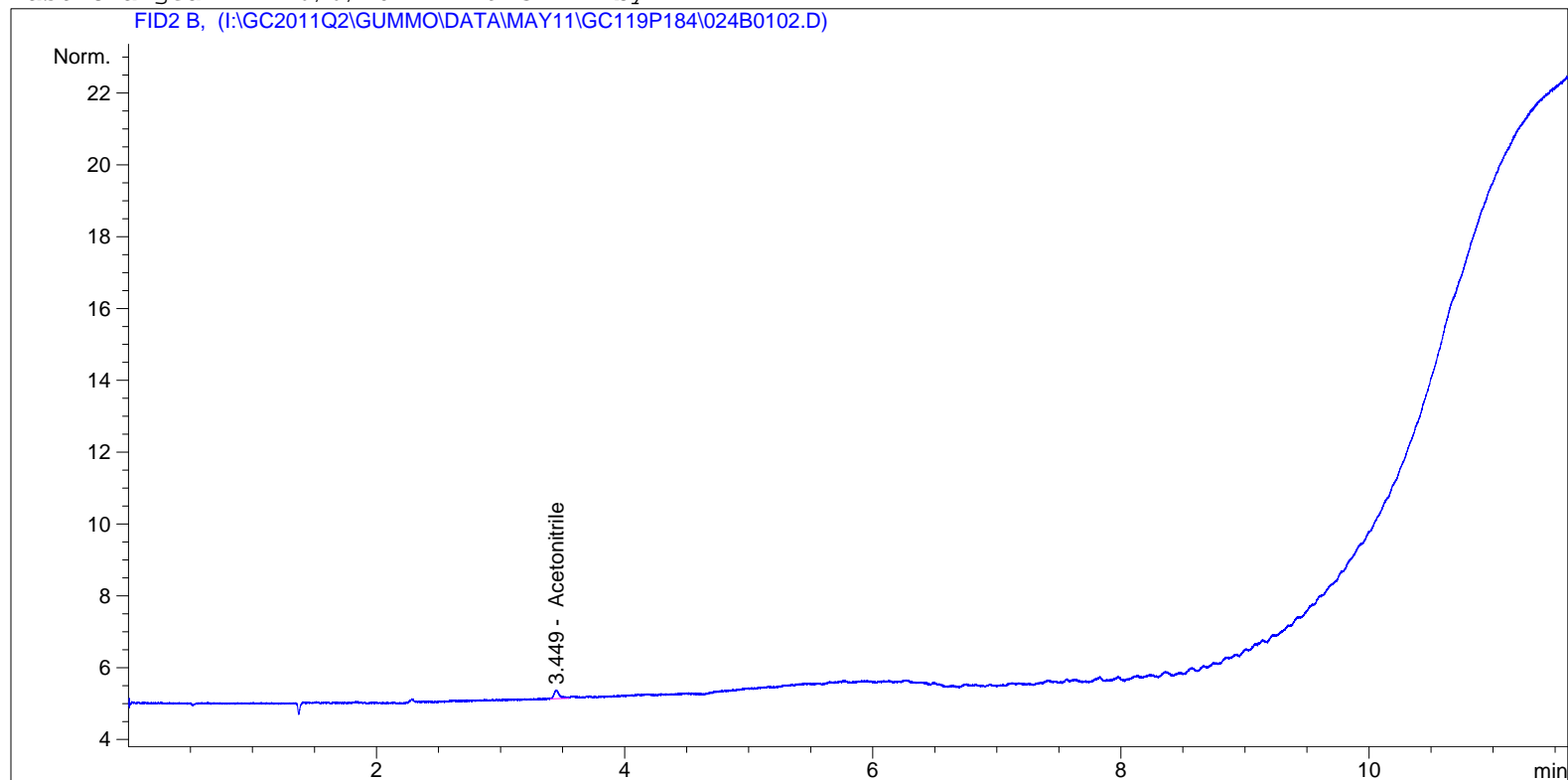
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : MGM                      Seq. Line :    1
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 06-Jun-11, 18:34:41      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      :      Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

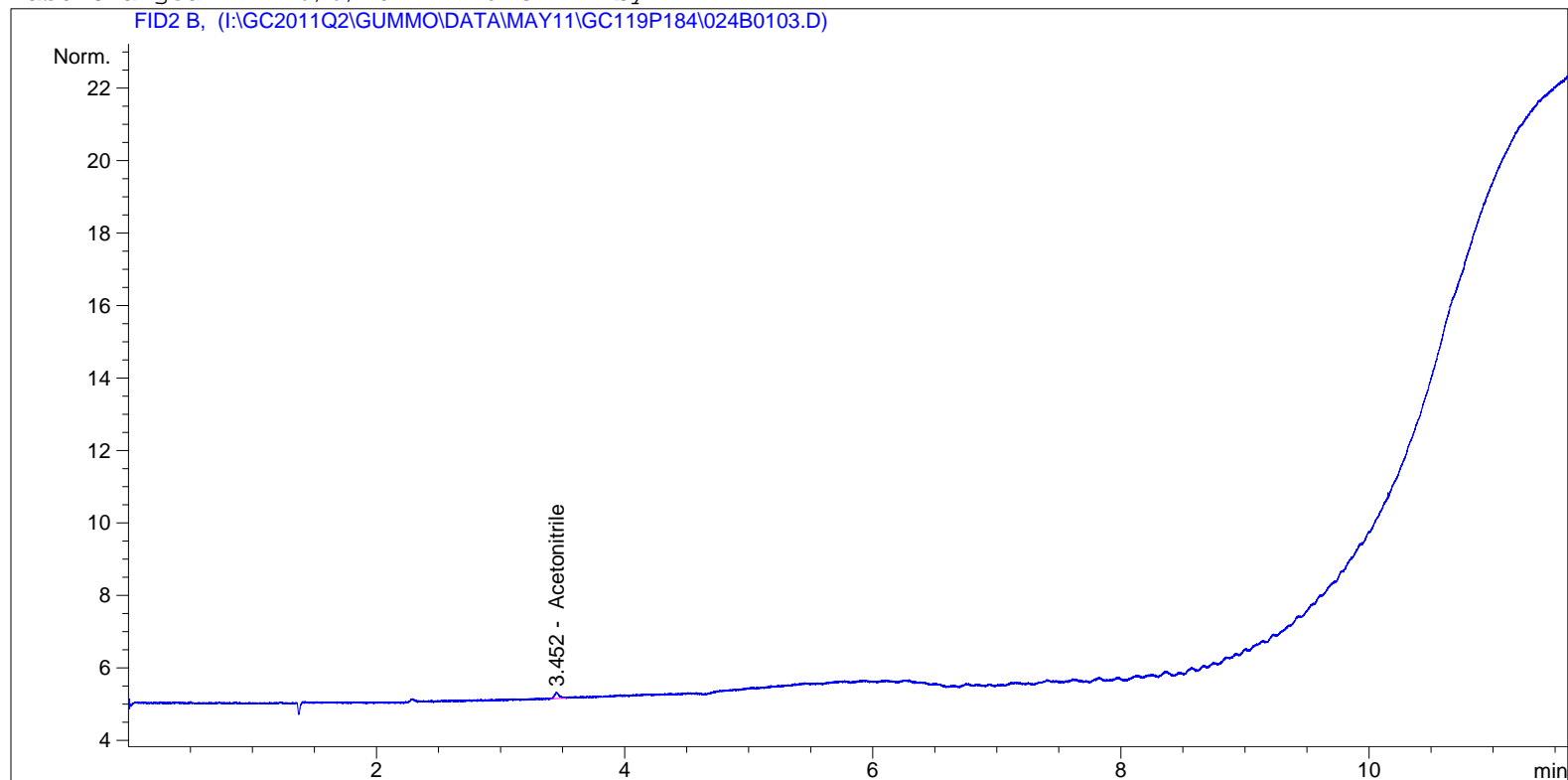
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.449	BV	6.86758e-1	4.14319	2.84536		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

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```
=====
Acq. Operator   : MGM                      Seq. Line :    1
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 06-Jun-11, 18:55:13      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
```



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=====
                        External Standard Report
=====
```

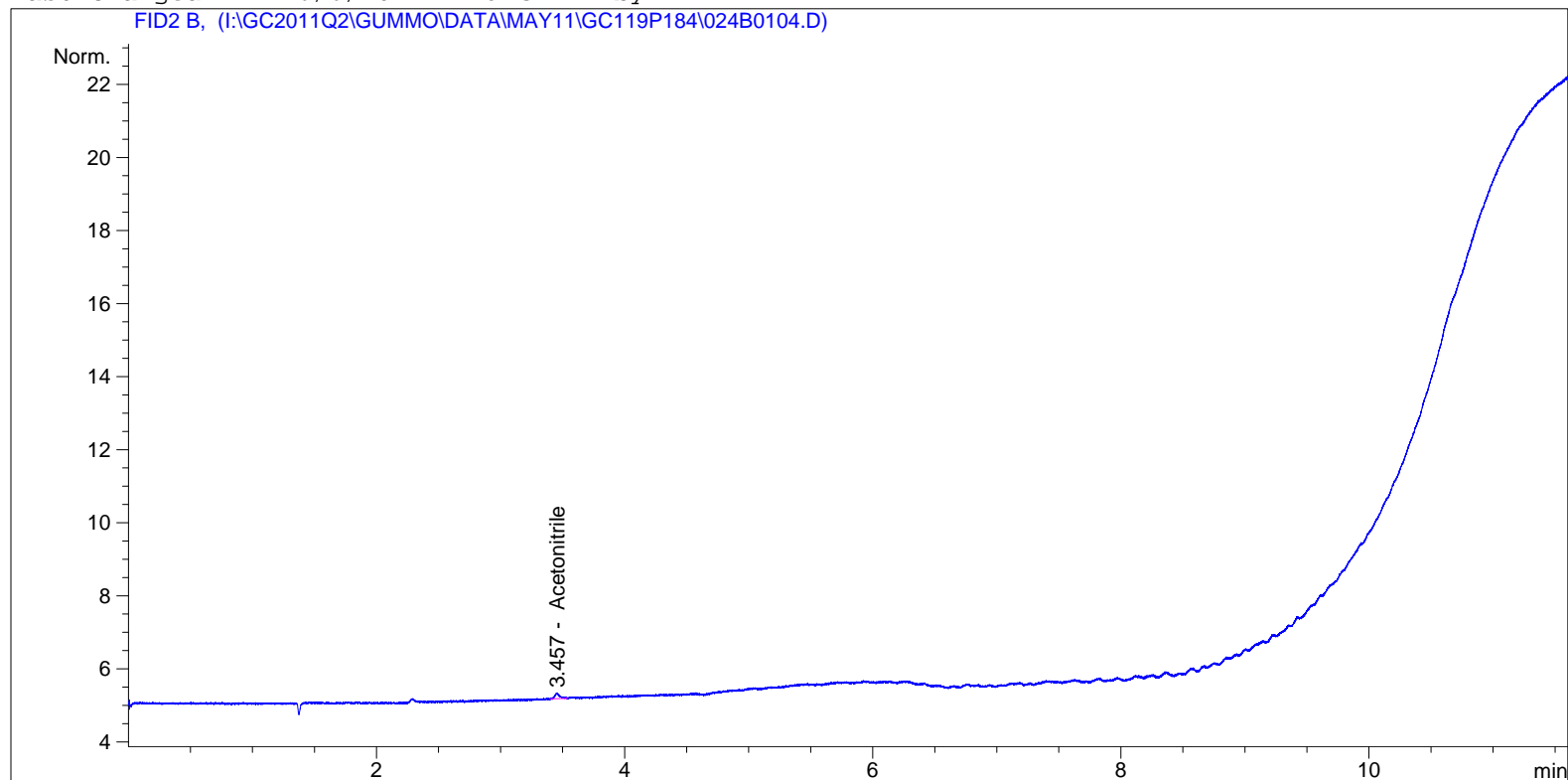
Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.452	BB	4.58176e-1	4.14319	1.89831		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

```
=====
Acq. Operator   : MGM                      Seq. Line :    1
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 06-Jun-11, 19:16:02      Inj       :    4
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
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                        External Standard Report
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Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

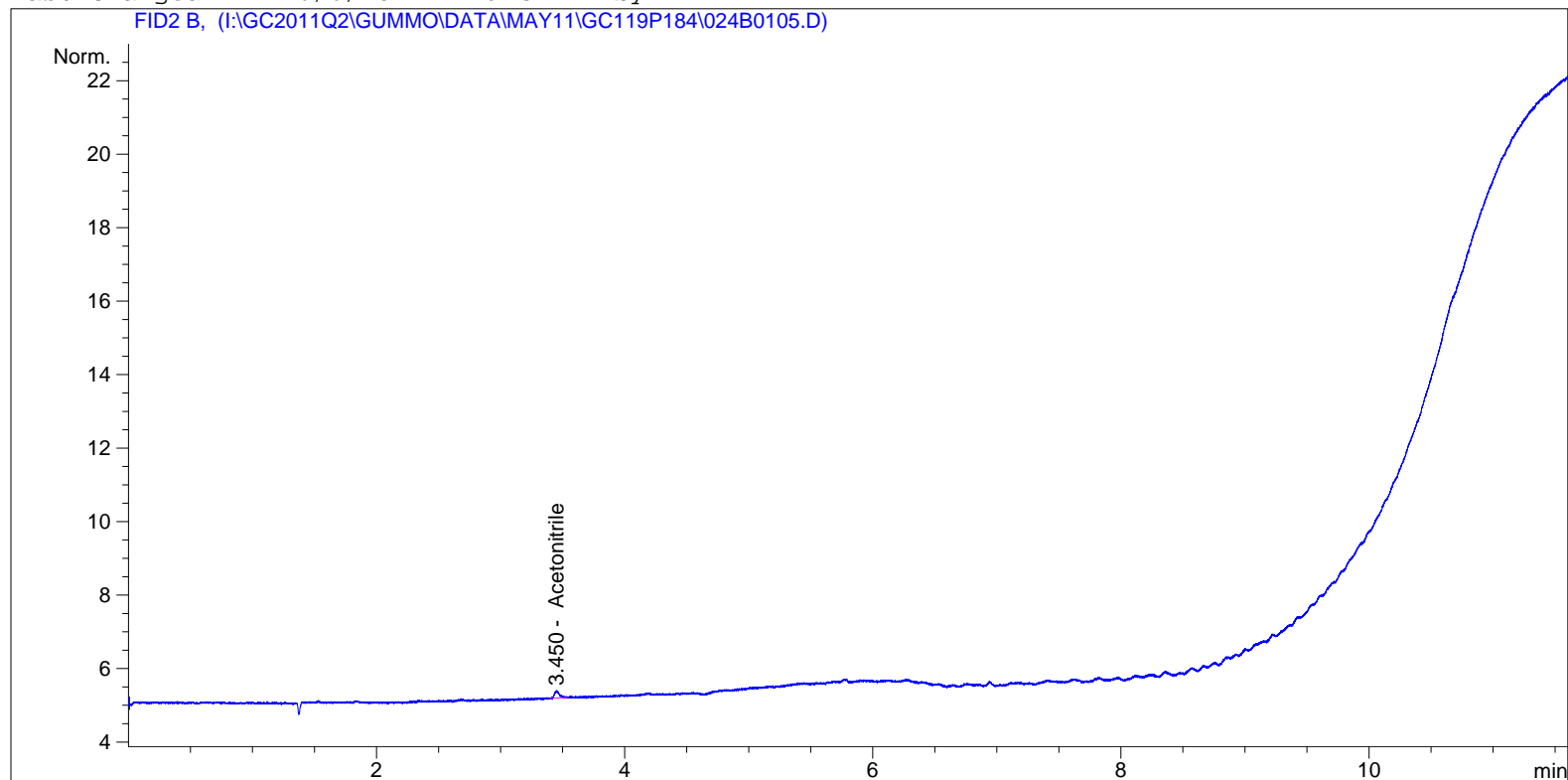
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.457	BB	4.06769e-1	4.14319	1.68532		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

FHR Pine Bend LLC
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=====
Acq. Operator   : MGM                      Seq. Line :    1
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 06-Jun-11, 19:36:34      Inj       :    5
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
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                        External Standard Report
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Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

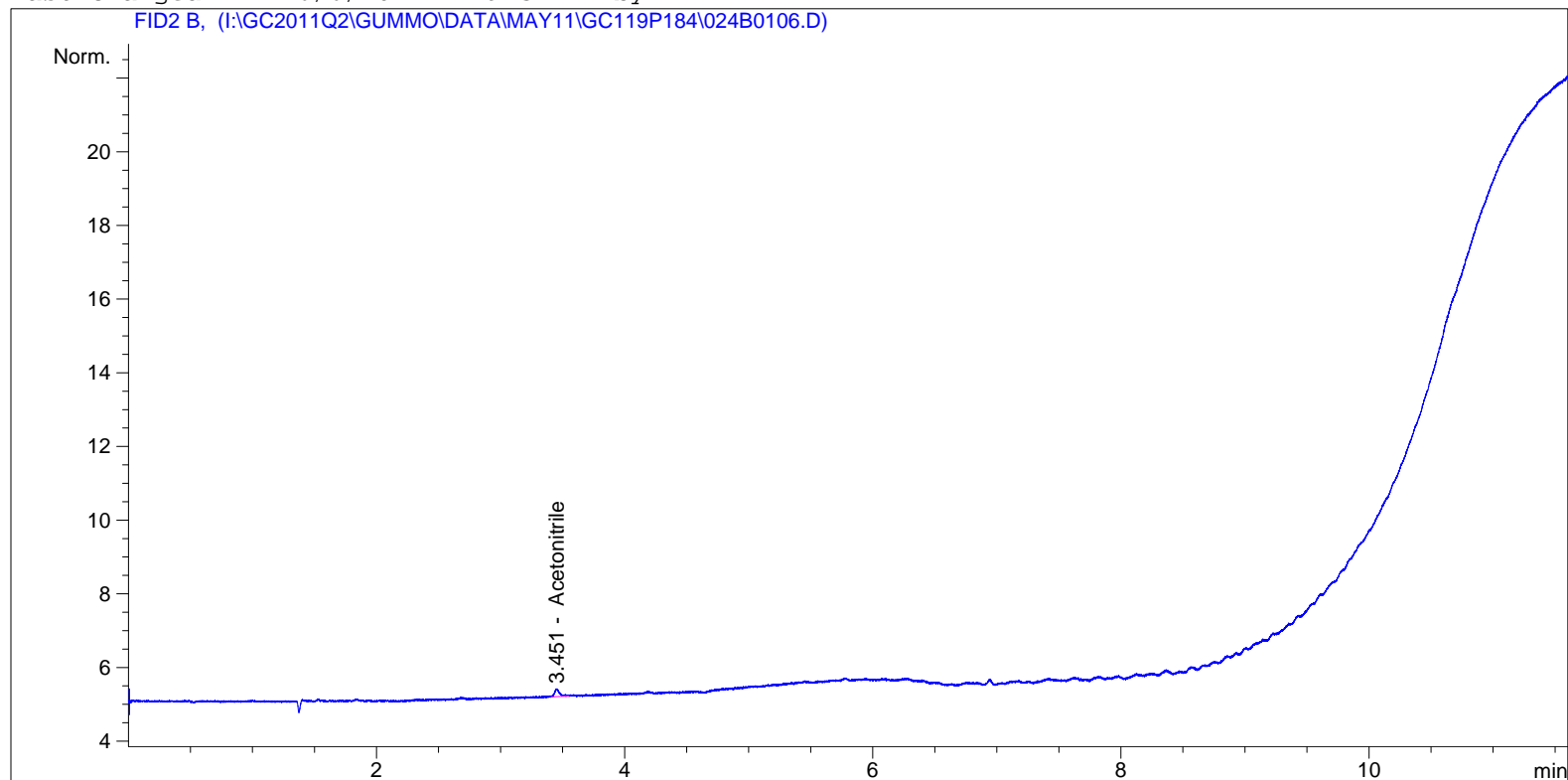
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.450	BB	5.12177e-1	4.14319	2.12204		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

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Page B-723 of 1576

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=====
Acq. Operator   : MGM                      Seq. Line :    1
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 06-Jun-11, 19:57:10      Inj       :    6
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
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                        External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:49:09 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

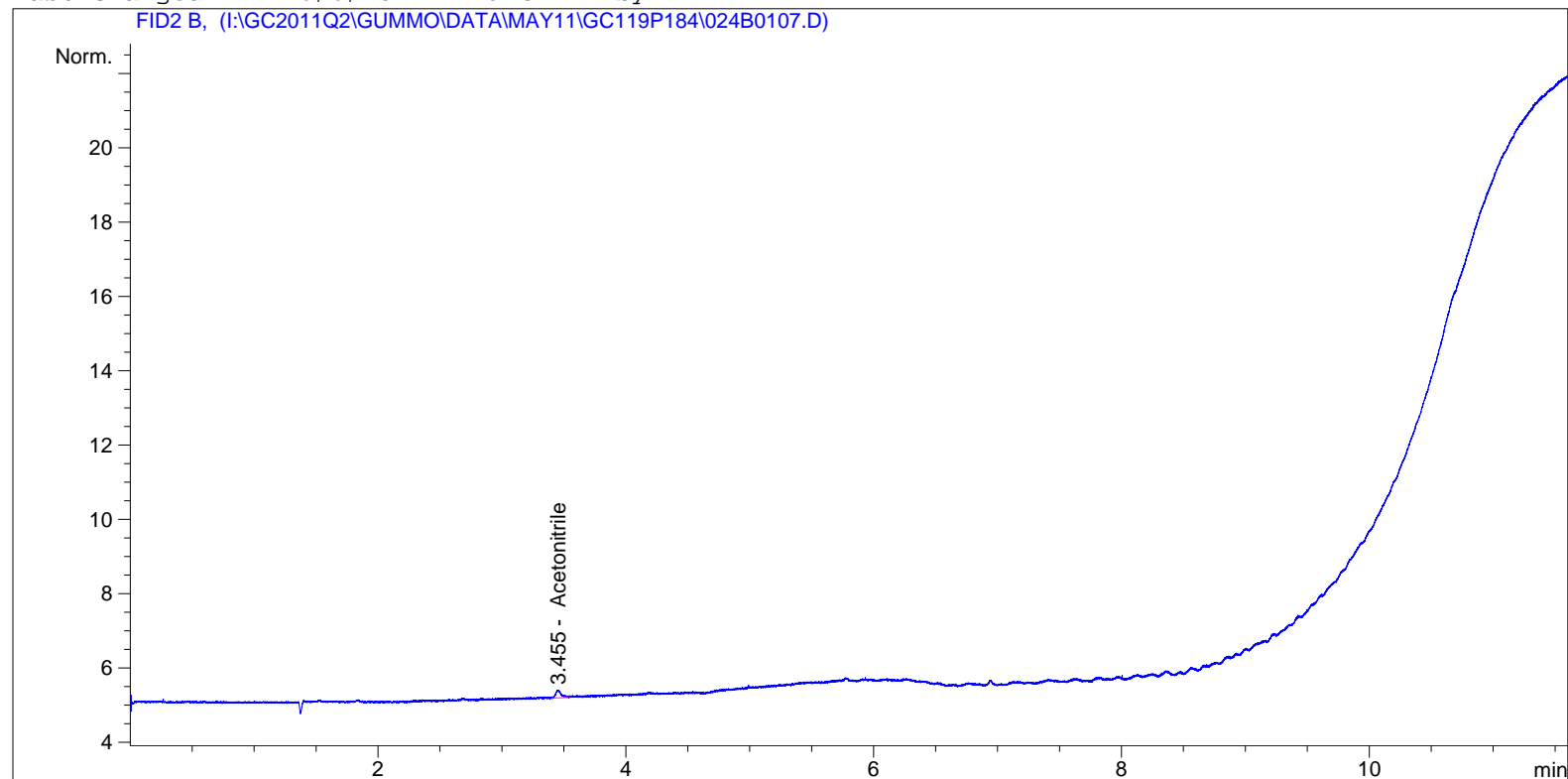
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.451	BB	5.70572e-1	4.14319	2.36399		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

FHR Pine Bend LLC
Page B-724 of 1576

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=====
Acq. Operator   : MGM                      Seq. Line :    1
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 06-Jun-11, 20:17:35      Inj       :    7
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
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                        External Standard Report
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Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

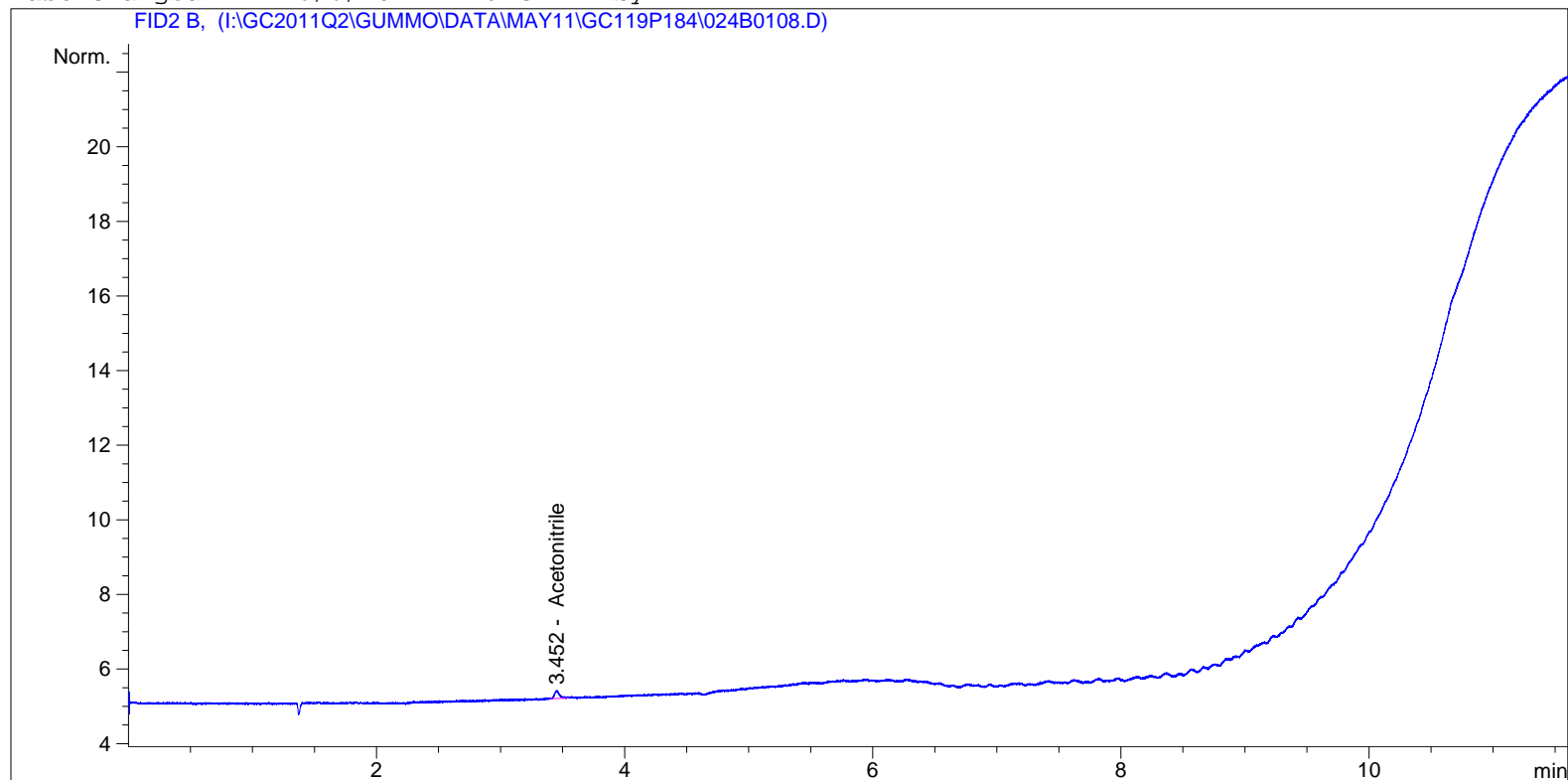
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.455	BV	6.33780e-1	4.14319	2.62587		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

FHR Pine Bend LLC
Page B-725 of 1576

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=====
Acq. Operator   : MGM                      Seq. Line :    1
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 06-Jun-11, 20:36:38      Inj       :    8
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
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                        External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      6/6/2011 4:49:09 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
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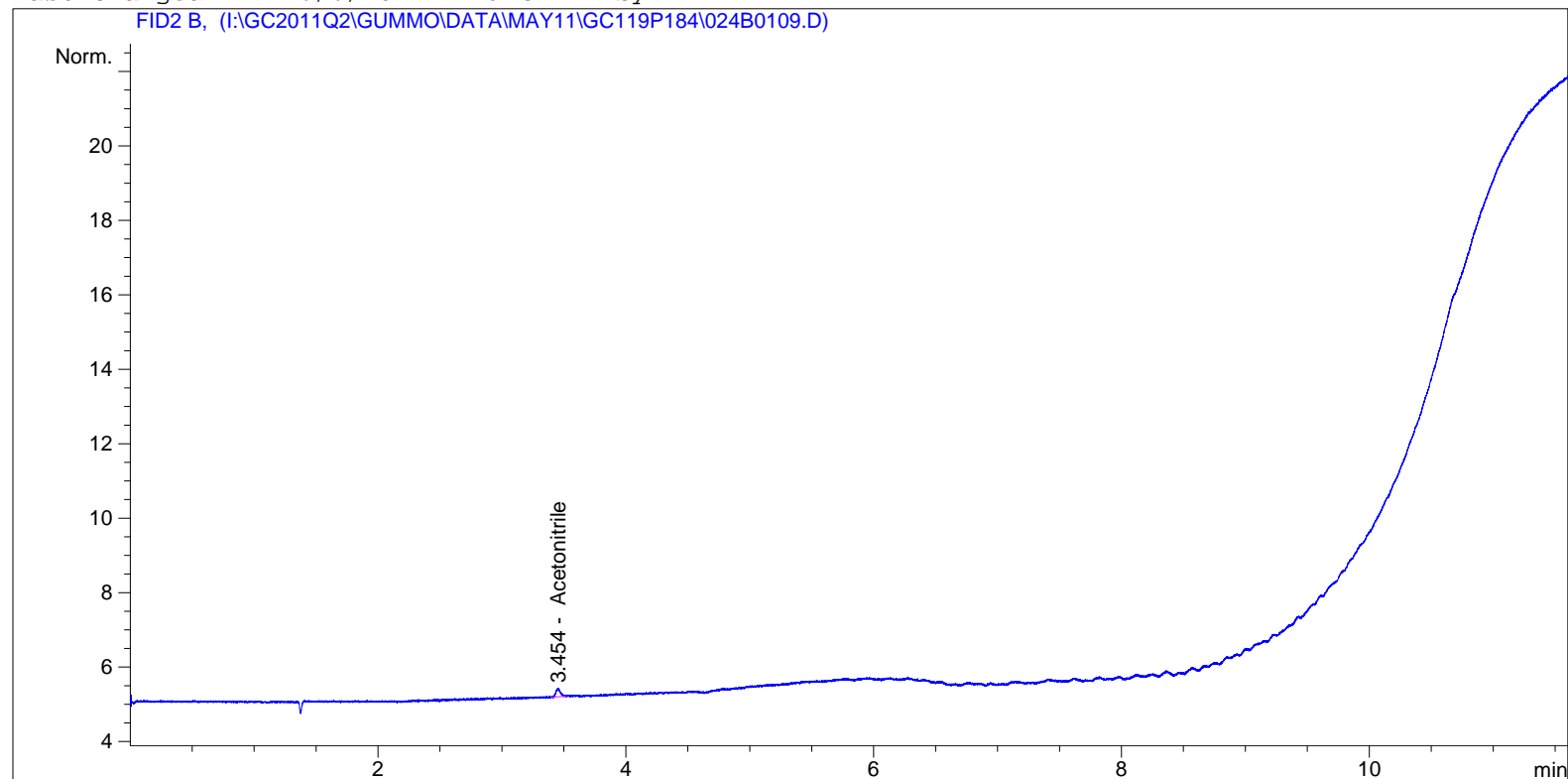
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.452	BB	5.72375e-1	4.14319	2.37146		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

FHR Pine Bend LLC
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=====
Acq. Operator   : MGM                               Seq. Line :    1
Acq. Instrument : Gummo online                     Location  : Vial 24
Injection Date  : 06-Jun-11, 20:55:46              Inj       :    9
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : I:\GC2011Q2\GUMMO\METHODS\GC114P176R_ICR.M
Last changed    : 6/6/2011 4:49:32 PM by KAM
=====
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External Standard Report
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Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

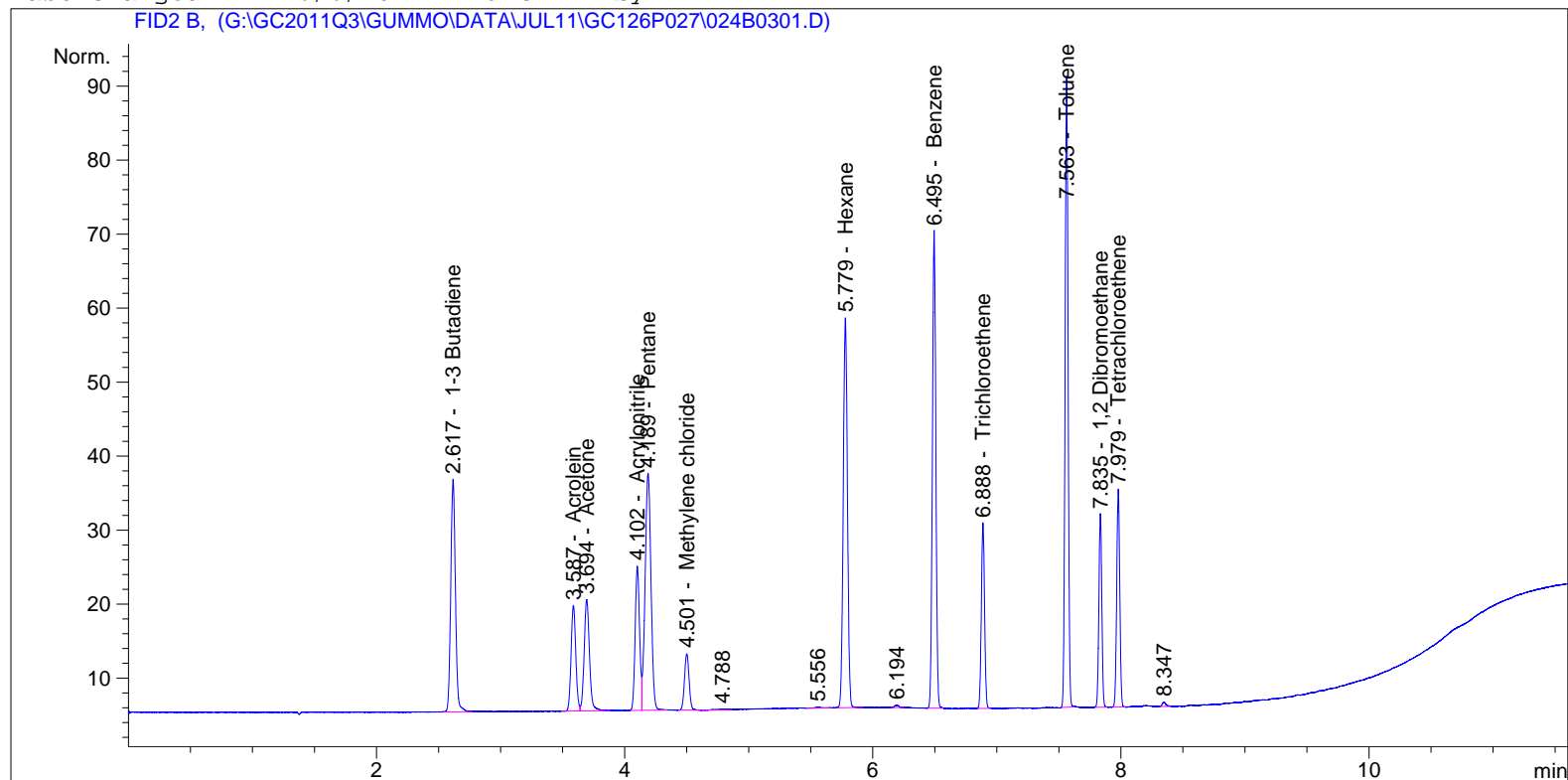
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620		-	-	-		1-3 Butadiene
3.454	BV	5.58644e-1	4.14319	2.31457		Acetonitrile
3.591		-	-	-		Acrolein
3.700		-	-	-		Acetone
4.107		-	-	-		Acrylonitrile
4.191		-	-	-		Pentane
4.508		-	-	-		Methylene chloride
5.781		-	-	-		Hexane
6.497		-	-	-		Benzene
6.890		-	-	-		Trichloroethene
7.565		-	-	-		Toluene
7.836		-	-	-		1,2 Dibromoethane
7.981	Pace Analytical FSD 1108-200	-	-	-		Tetrachloroethene

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Acq. Operator	: MGM	Seq. Line	: 3
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 26-Jul-11, 18:17:16	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

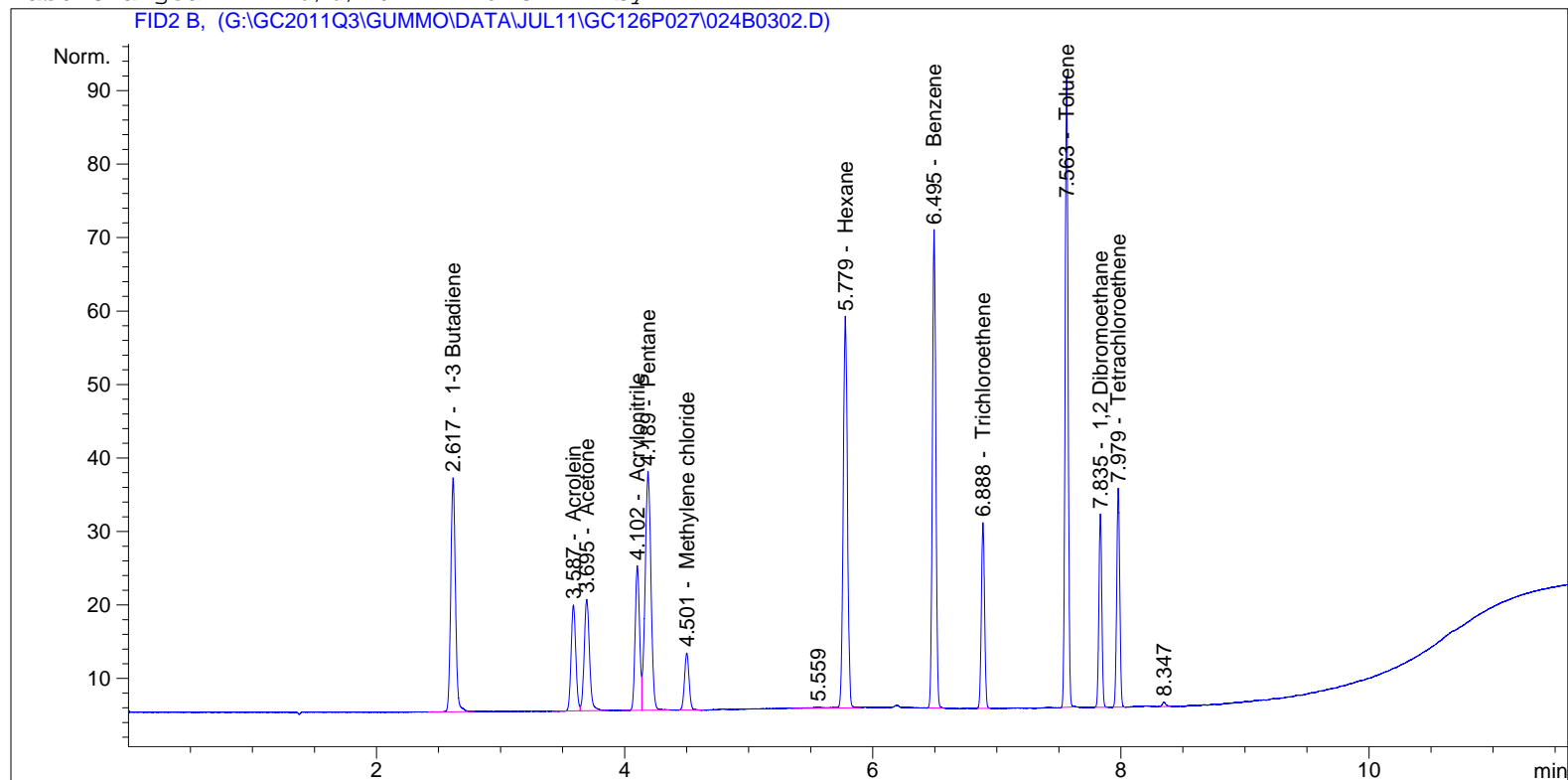
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BV	82.43529	1.21224	99.93155		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.587	BV	37.56786	2.67101	100.34401		Acrolein
3.694	VB	44.44625	2.22378	98.83878		Acetone
4.102	BV	48.52784	2.03267	98.64083		Acrylonitrile
4.189	VB	105.27538	9.56683e-1	100.71521		Pentane
4.501	BB	19.47431	5.11181	99.54891		Methylene chloride
5.779	BB	124.07623	8.10070e-1	100.51041		Hexane
6.495	BB	125.00370	8.11721e-1	101.46810		Benzene
6.888	BB	45.45982	2.17580	98.91141		Trichloroethene
7.563	BB	144.59033	6.89479e-1	99.69200		Toluene
7.835	BB	43.13580	2.36449	101.99421		1,2 Dibromoethane
7.979	BB	50.80072	1.97719	100.44285		Tetrachloroethene

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Acq. Operator	: MGM	Seq. Line	: 3
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 26-Jul-11, 18:36:30	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

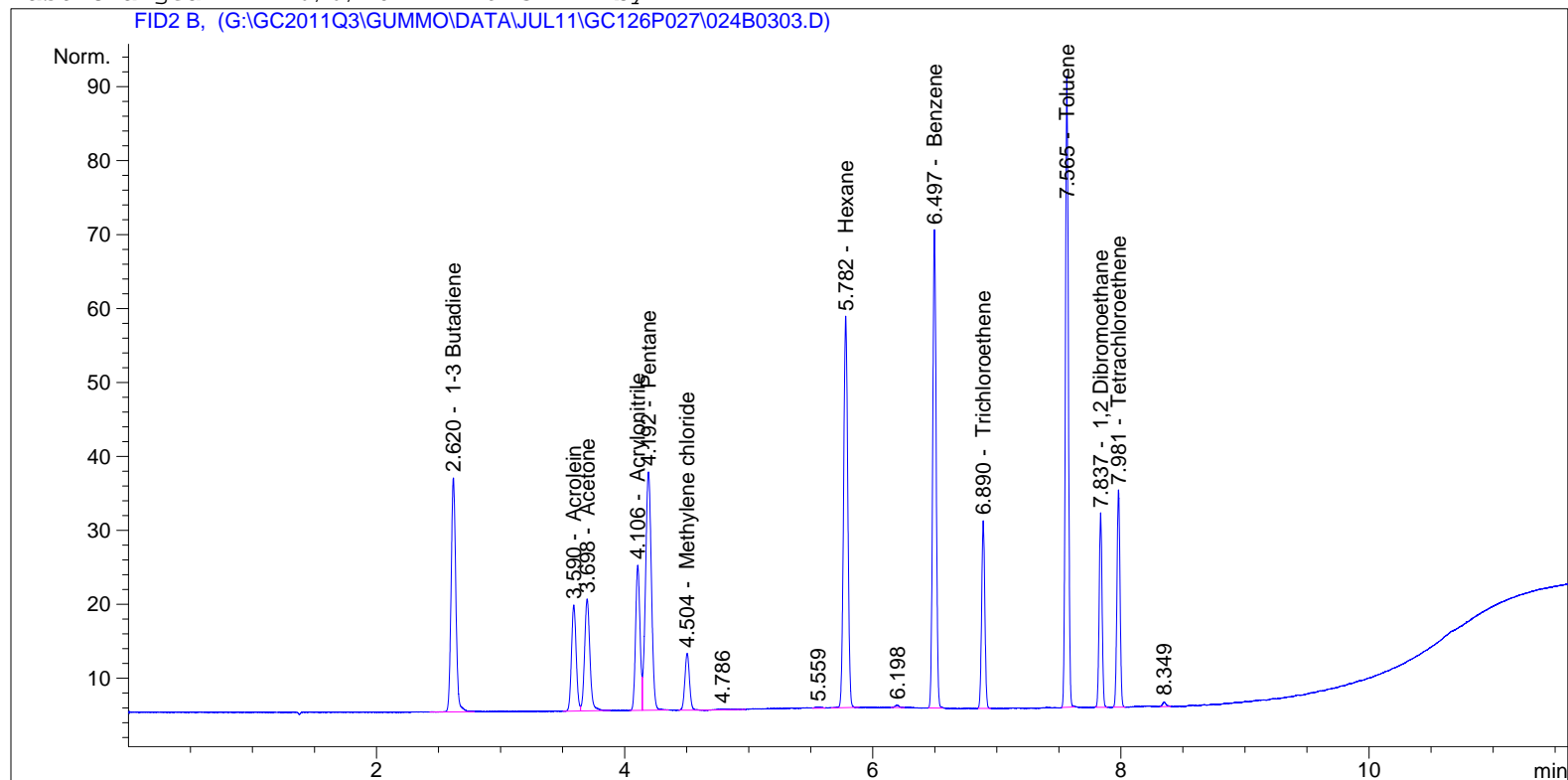
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.617	BV	83.55119	1.21216	101.27732		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.587	BV	37.97353	2.67086	101.42192		Acrolein
3.695	VB	44.92701	2.22353	99.89636		Acetone
4.102	BV	49.14629	2.03236	99.88315		Acrylonitrile
4.189	VB	106.79054	9.56635e-1	102.15959		Pentane
4.501	BB	19.83496	5.11134	101.38313		Methylene chloride
5.779	VB	126.30143	8.10002e-1	102.30444		Hexane
6.495	BB	126.57922	8.11673e-1	102.74093		Benzene
6.888	BB	46.09649	2.17538	100.27733		Trichloroethene
7.563	BB	146.37874	6.89364e-1	100.90829		Toluene
7.835	BB	43.61805	2.36425	103.12416		1,2 Dibromoethane
7.979	BB	51.48861	1.97691	101.78858		Tetrachloroethene

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Acq. Operator	: MGM	Seq. Line	: 3
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 26-Jul-11, 18:55:45	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

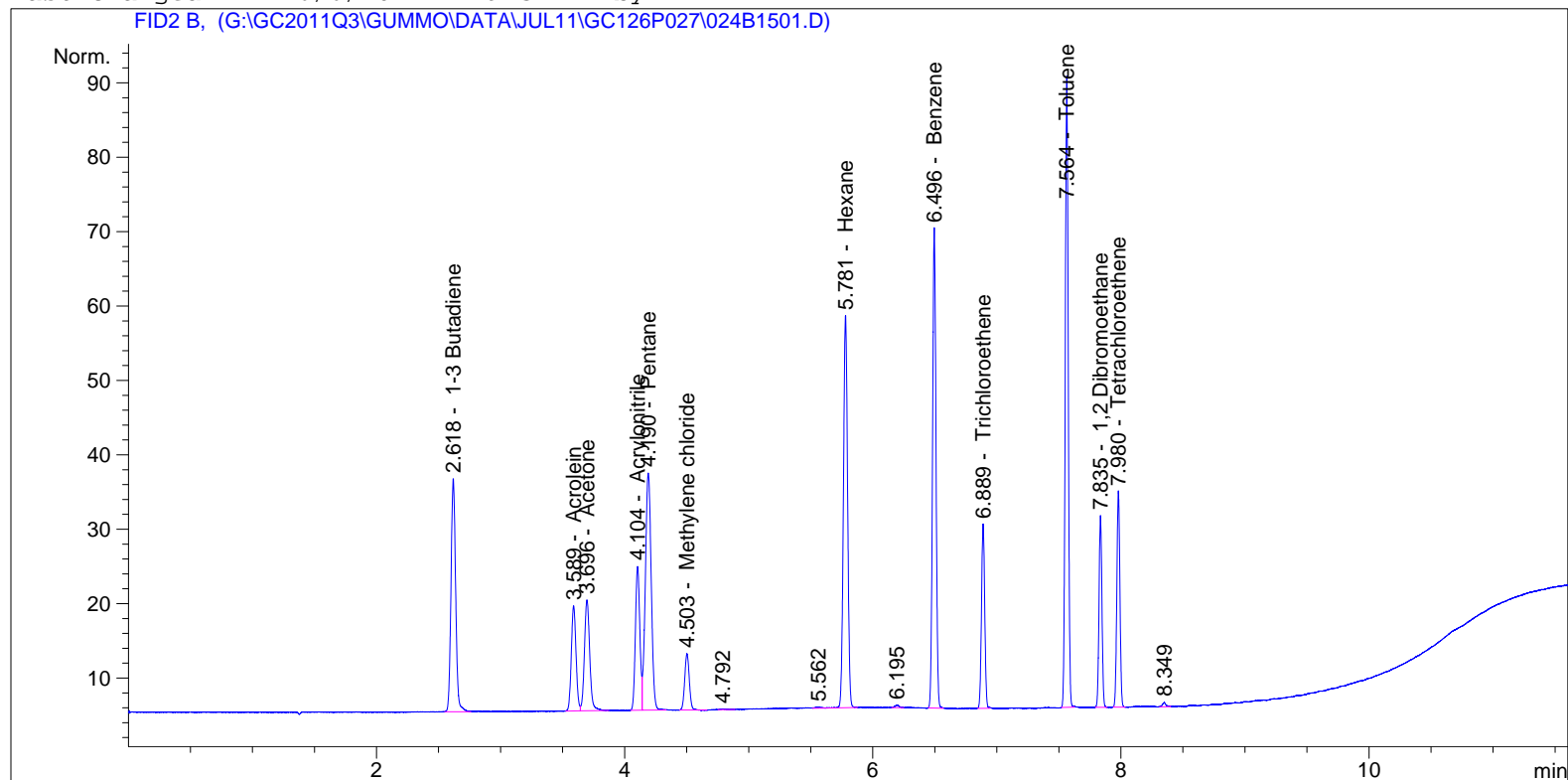
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	BV	82.94035	1.21220	100.54066		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.590	VV	37.85751	2.67090	101.11365		Acrolein
3.698	VB	44.83470	2.22357	99.69330		Acetone
4.106	BV	48.98238	2.03244	99.55391		Acrylonitrile
4.192	VB	106.26004	9.56652e-1	101.65387		Pentane
4.504	BB	19.78651	5.11140	101.13675		Methylene chloride
5.782	VB	125.03064	8.10041e-1	101.27989		Hexane
6.497	BB	125.90762	8.11693e-1	102.19836		Benzene
6.890	BB	45.81028	2.17557	99.66329		Trichloroethene
7.565	BB	145.53194	6.89418e-1	100.33238		Toluene
7.837	BB	43.34277	2.36439	102.47916		1,2 Dibromoethane
7.981	BB	51.17091	1.97704	101.16706		Tetrachloroethene

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Acq. Operator	: MGM	Seq. Line	: 15
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 27-Jul-11, 16:09:55	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	BV	82.02731	1.21227	99.43954		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	37.24823	2.67113	99.49471		Acrolein
3.696	VB	44.13411	2.22395	98.15211		Acetone
4.104	BV	48.25595	2.03280	98.09469		Acrylonitrile
4.190	VB	104.92998	9.56695e-1	100.38594		Pentane
4.503	BB	19.39044	5.11192	99.12233		Methylene chloride
5.781	VV	123.88919	8.10076e-1	100.35962		Hexane
6.496	BB	124.42673	8.11739e-1	101.00197		Benzene
6.889	BB	45.14462	2.17601	98.23517		Trichloroethene
7.564	BB	143.47809	6.89552e-1	98.93556		Toluene
7.835	BB	42.61301	2.36475	100.76929		1,2 Dibromoethane
7.980	BB	50.22935	1.97743	99.32505		Tetrachloroethene

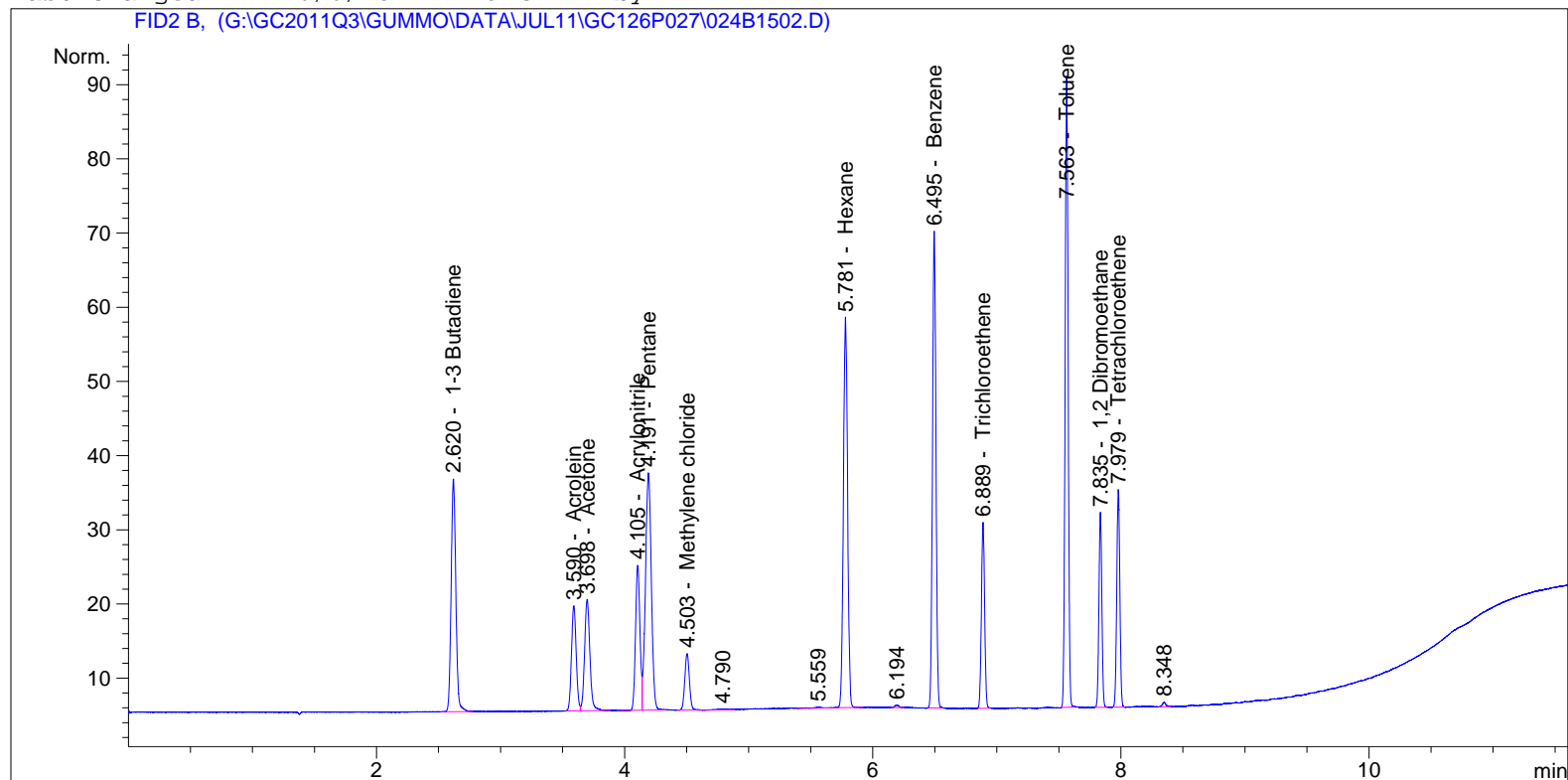
Base Analytical
FSD 1108-200

FHR Pine Bend LLC
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Acq. Operator	: MGM	Seq. Line	: 15
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 27-Jul-11, 16:29:22	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

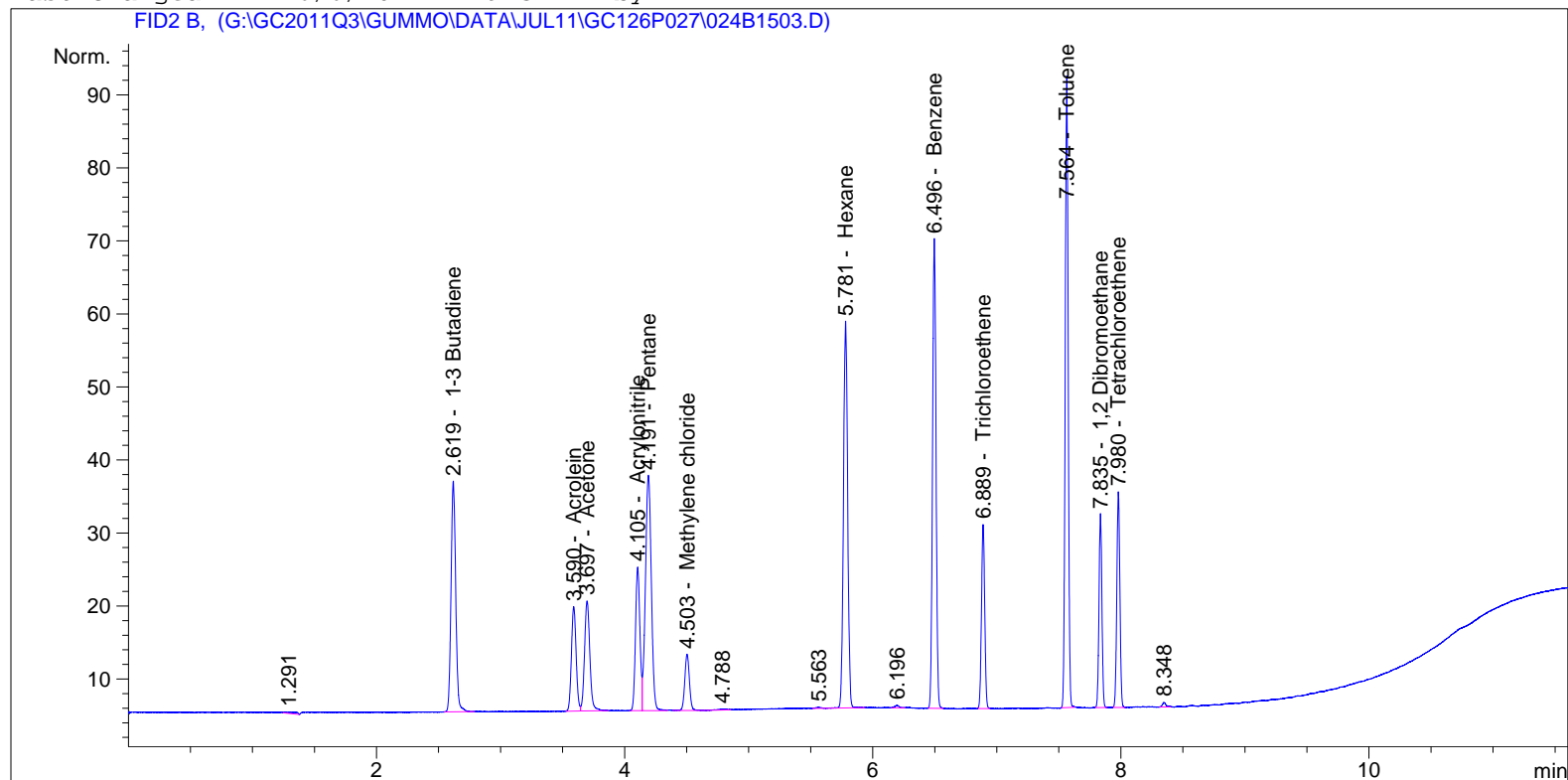
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.620	BV	82.18315	1.21226	99.62748		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.590	BV	37.42603	2.67106	99.96714		Acrolein
3.698	VB	44.38123	2.22382	98.69574		Acetone
4.105	BV	48.34988	2.03275	98.28336		Acrylonitrile
4.191	VB	105.09795	9.56689e-1	100.54607		Pentane
4.503	BB	19.56859	5.11168	100.02843		Methylene chloride
5.781	VB	124.07172	8.10070e-1	100.50678		Hexane
6.495	BB	124.90414	8.11724e-1	101.38767		Benzene
6.889	BB	45.44513	2.17581	98.87990		Trichloroethene
7.563	BB	144.64363	6.89476e-1	99.72825		Toluene
7.835	BB	43.26060	2.36443	102.28663		1,2 Dibromoethane
7.979	BB	50.78024	1.97720	100.40277		Tetrachloroethene

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Acq. Operator	: MGM	Seq. Line	: 15
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 27-Jul-11, 16:48:39	Inj	: 3
		Inj Volume	: External
Acq. Method	: G:\GC2011Q2\GUMMO\METHODS\GC114P165.M		
Last changed	: 11/15/2010 3:12:59 PM by tbo		
Analysis Method	: G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M		
Last changed	: 6/6/2011 4:49:32 PM by KAM		

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External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

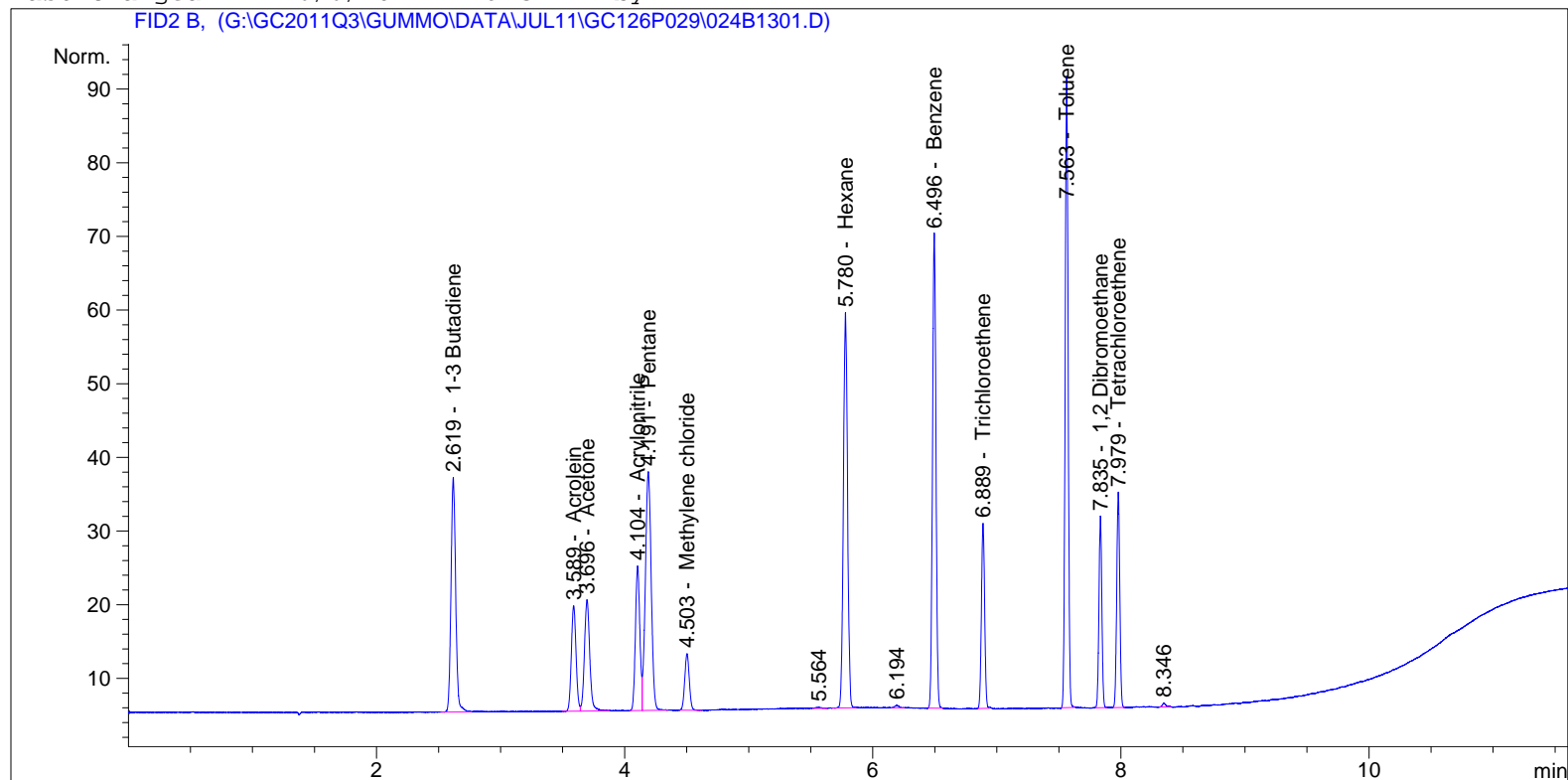
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.619	BB	82.51555	1.21224	100.02835		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.590	BV	37.72263	2.67095	100.75525		Acrolein
3.697	VB	44.66832	2.22366	99.32730		Acetone
4.105	BV	49.04356	2.03241	99.67681		Acrylonitrile
4.191	VB	106.52906	9.56643e-1	101.91032		Pentane
4.503	VV	20.08564	5.11102	102.65809		Methylene chloride
5.781	VB	125.08025	8.10039e-1	101.31989		Hexane
6.496	BB	125.92252	8.11693e-1	102.21039		Benzene
6.889	BB	45.76207	2.17560	99.55986		Trichloroethene
7.564	BB	145.82030	6.89400e-1	100.52850		Toluene
7.835	BB	43.68041	2.36422	103.27028		1,2 Dibromoethane
7.980	BB	51.15298	1.97705	101.13198		Tetrachloroethene

=====

Acq. Operator	: MGM	Seq. Line	: 13
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 28-Jul-11, 20:55:01	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

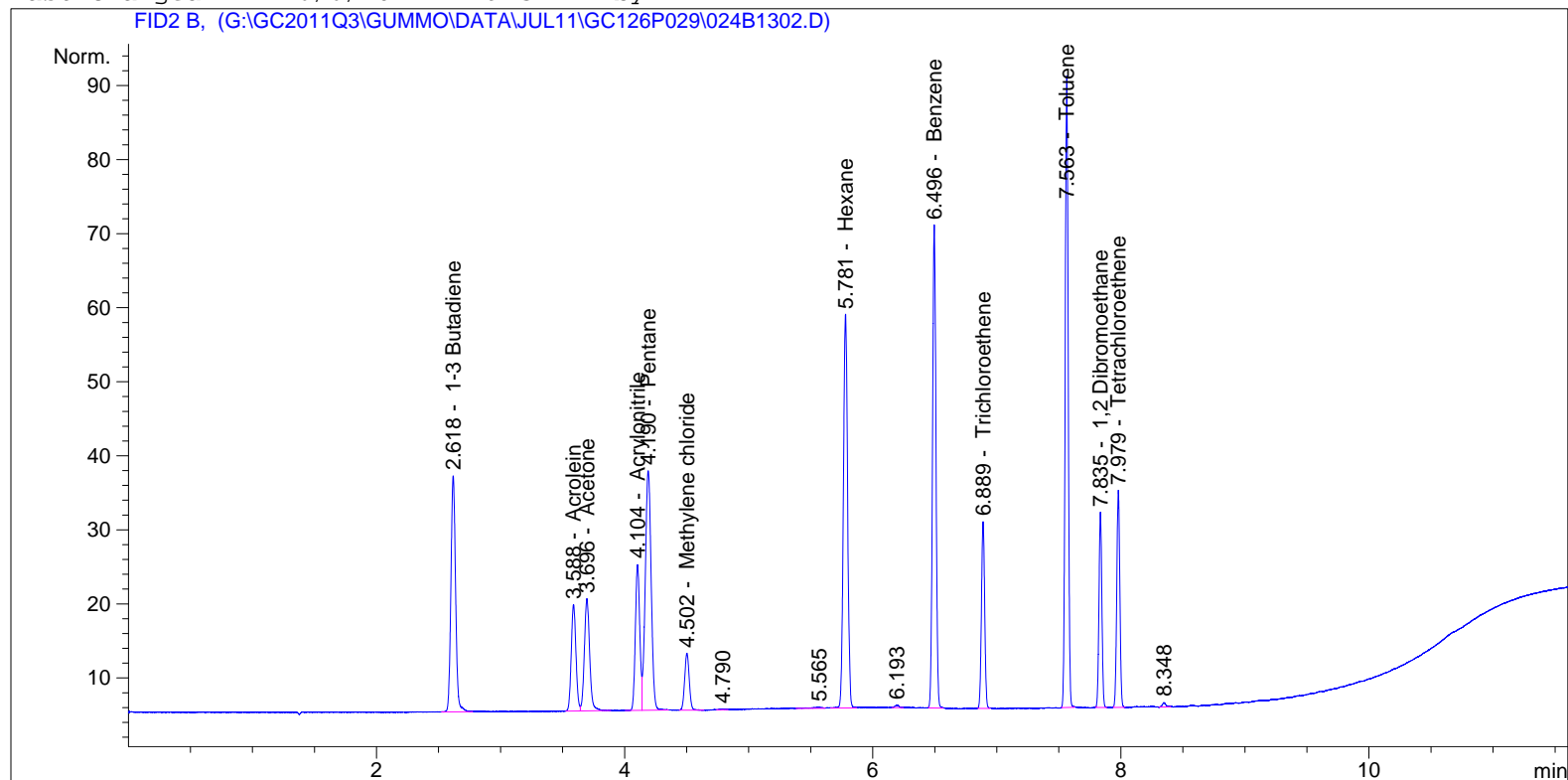
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.619	BV	83.18942	1.21219	100.84104		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	BV	37.75130	2.67094	100.83143		Acrolein
3.696	VB	44.67942	2.22366	99.35172		Acetone
4.104	BV	48.91266	2.03248	99.41386		Acrylonitrile
4.191	VB	106.41822	9.56647e-1	101.80466		Pentane
4.503	BB	19.49616	5.11178	99.66002		Methylene chloride
5.780	VV	125.28760	8.10033e-1	101.48705		Hexane
6.496	BB	125.76060	8.11698e-1	102.07958		Benzene
6.889	BB	45.52365	2.17576	99.04834		Trichloroethene
7.563	BB	144.44948	6.89488e-1	99.59620		Toluene
7.835	BB	42.61158	2.36475	100.76594		1,2 Dibromoethane
7.979	BB	50.46033	1.97733	99.77694		Tetrachloroethene

=====

Acq. Operator	: MGM	Seq. Line	: 13
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 28-Jul-11, 21:14:10	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

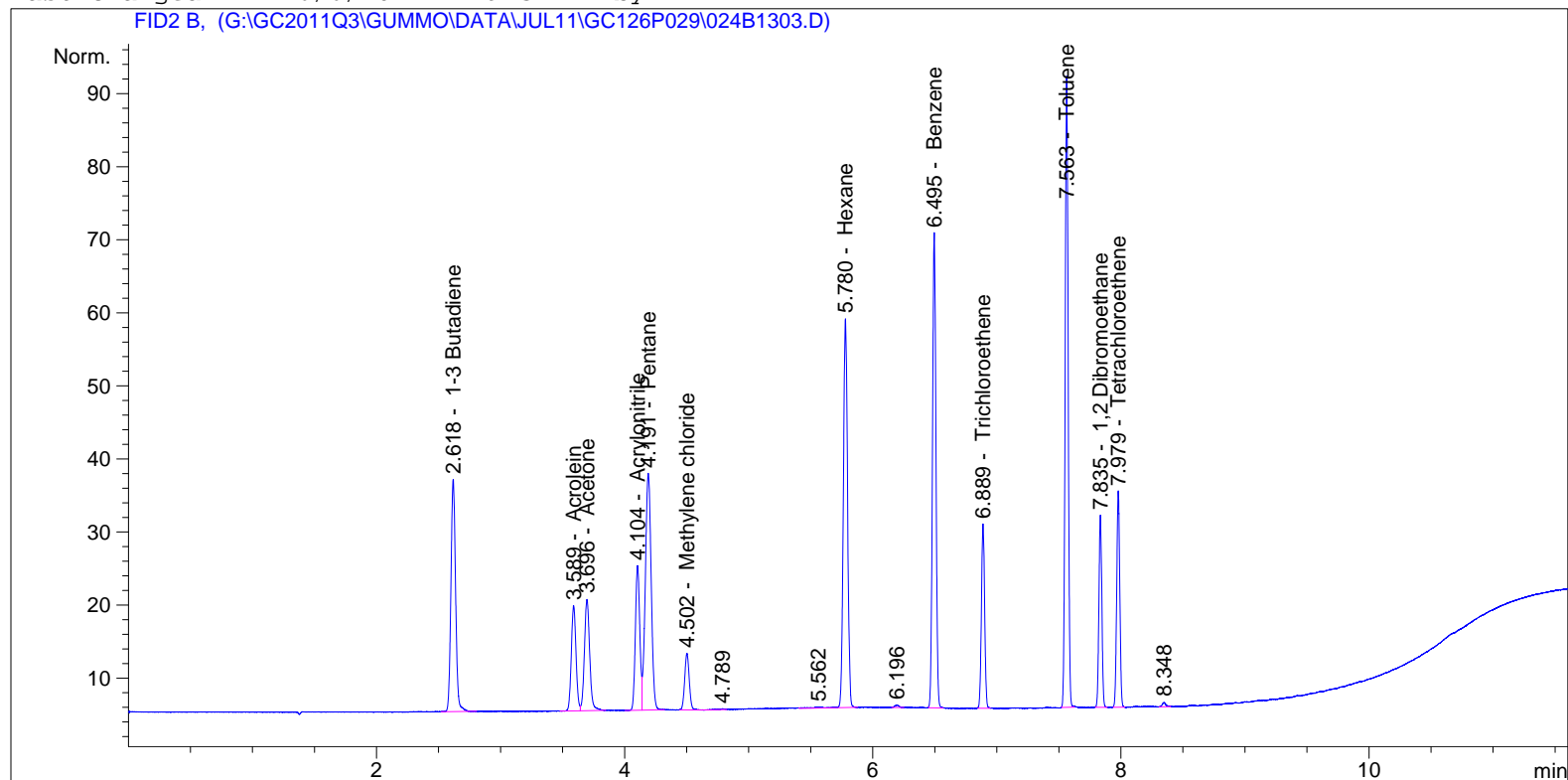
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	BB	83.26582	1.21218	100.93317		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.588	BV	37.85689	2.67090	101.11199		Acrolein
3.696	VB	44.83887	2.22357	99.70249		Acetone
4.104	BV	49.09235	2.03239	99.77482		Acrylonitrile
4.190	VB	106.61890	9.56641e-1	101.99597		Pentane
4.502	BB	19.69811	5.11151	100.68715		Methylene chloride
5.781	VV	125.94331	8.10013e-1	102.01571		Hexane
6.496	BB	126.26273	8.11682e-1	102.48524		Benzene
6.889	BB	45.80029	2.17557	99.64186		Trichloroethene
7.563	BB	145.70970	6.89407e-1	100.45328		Toluene
7.835	BB	43.12980	2.36449	101.98015		1,2 Dibromoethane
7.979	BB	50.94759	1.97713	100.73017		Tetrachloroethene

=====

Acq. Operator	: MGM	Seq. Line	: 13
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 28-Jul-11, 21:33:16	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

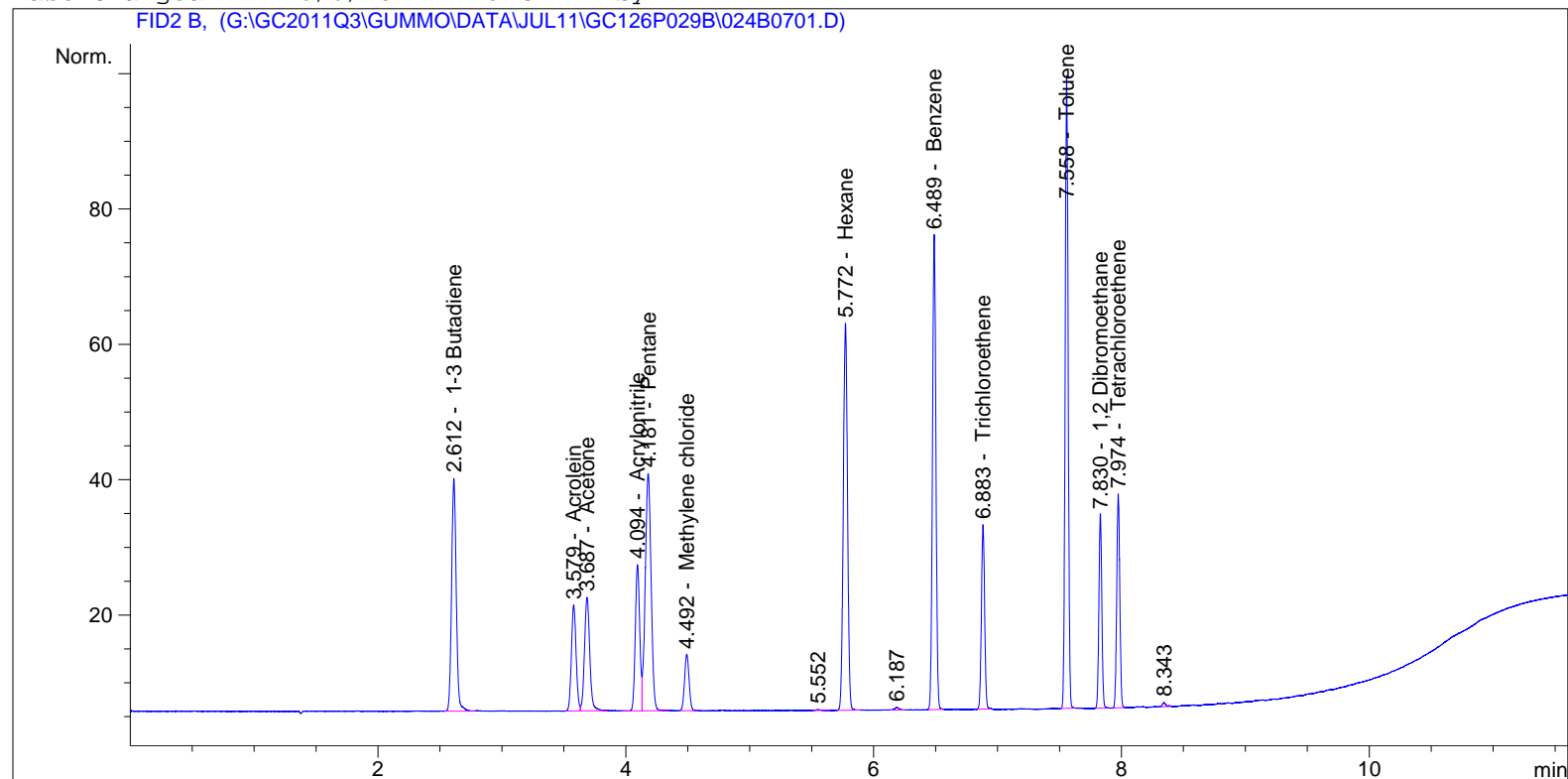
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.618	BB	83.13705	1.21219	100.77788		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.589	VV	38.03463	2.67084	101.58426		Acrolein
3.696	VB	44.83834	2.22357	99.70132		Acetone
4.104	BV	49.20676	2.03234	100.00463		Acrylonitrile
4.191	VB	106.45461	9.56646e-1	101.83935		Pentane
4.502	BB	19.61633	5.11162	100.27122		Methylene chloride
5.780	VB	125.58060	8.10024e-1	101.72329		Hexane
6.495	BB	126.44170	8.11677e-1	102.62983		Benzene
6.889	BB	45.90086	2.17551	99.85763		Trichloroethene
7.563	BB	146.06345	6.89384e-1	100.69386		Toluene
7.835	BB	43.42906	2.36435	102.68134		1,2 Dibromoethane
7.979	BB	51.12518	1.97706	101.07760		Tetrachloroethene

=====

Acq. Operator	: MGM	Seq. Line	: 7
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 29-Jul-11, 22:04:26	Inj	: 1
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

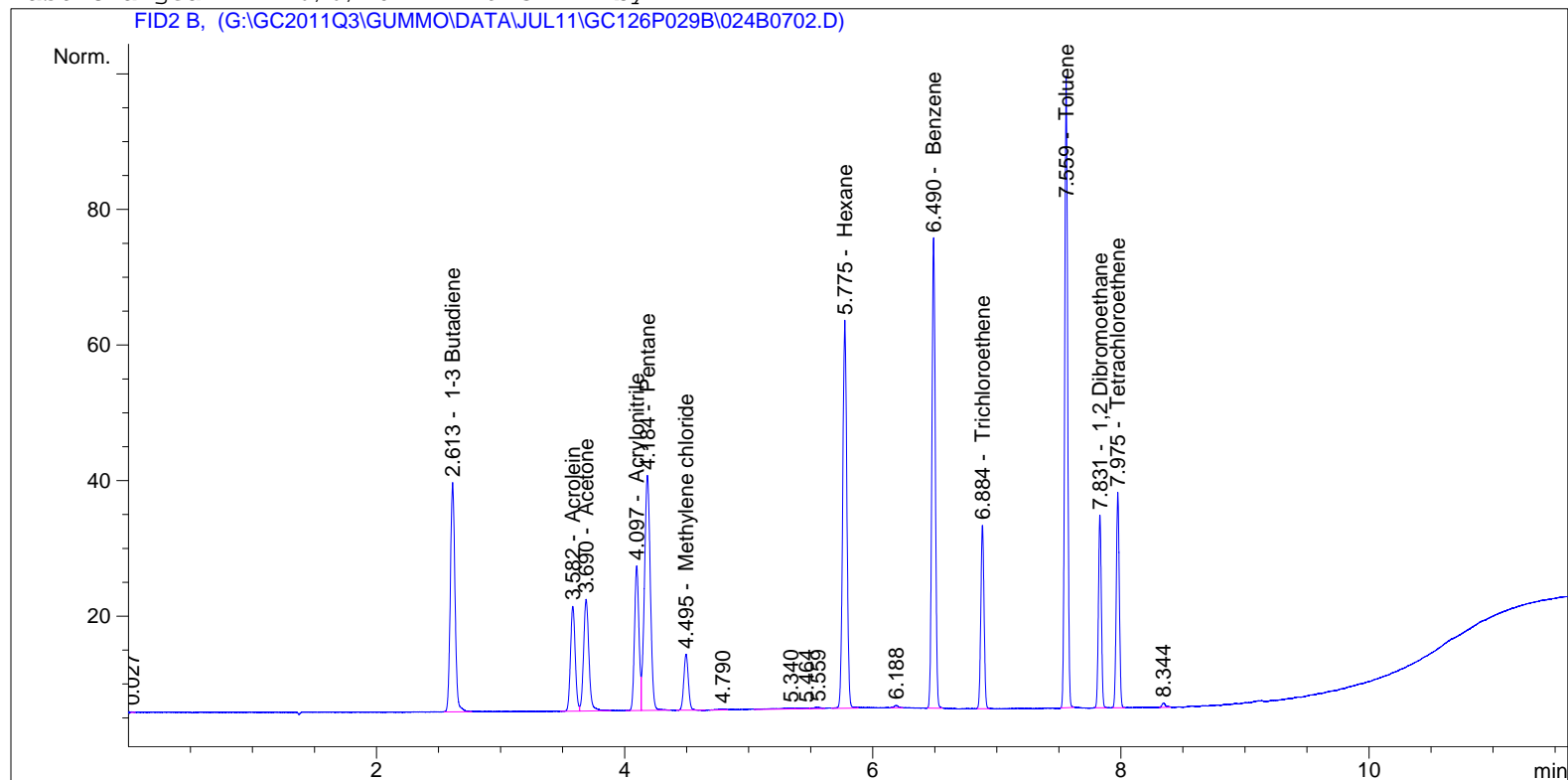
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.612	BB	89.84815	1.21173	108.87142		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.579	BV	41.27386	2.66976	110.19124		Acrolein
3.687	VB	49.54699	2.22132	110.05958		Acetone
4.094	BV	53.75753	2.03034	109.14606		Acrylonitrile
4.181	VB	115.22742	9.56390e-1	110.20237		Pentane
4.492	BB	21.11760	5.10979	107.90661		Methylene chloride
5.772	BB	135.32985	8.09751e-1	109.58343		Hexane
6.489	BB	136.30650	8.11403e-1	110.59947		Benzene
6.883	BB	49.54376	2.17329	107.67313		Trichloroethene
7.558	BB	158.10988	6.88677e-1	108.88664		Toluene
7.830	BB	47.00779	2.36273	111.06654		1,2 Dibromoethane
7.974	BB	54.90208	1.97563	108.46648		Tetrachloroethene

=====

Acq. Operator	: MGM	Seq. Line	: 7
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 29-Jul-11, 22:23:24	Inj	: 2
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

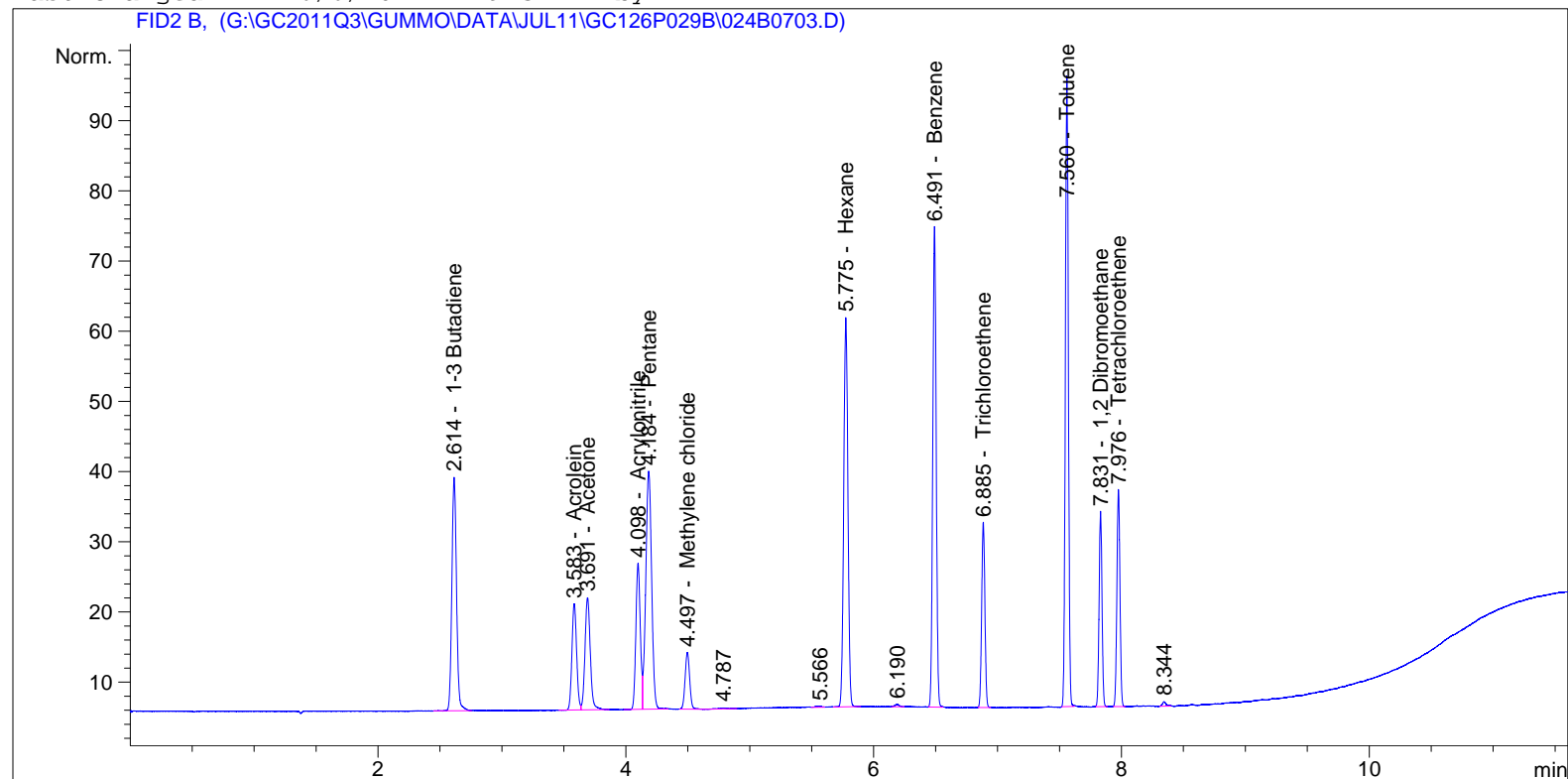
Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.613	BV	88.50397	1.21181	107.25034		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.582	BV	40.78766	2.66991	108.89934		Acrolein
3.690	VB	48.89489	2.22160	108.62507		Acetone
4.097	BV	53.02201	2.03064	107.66856		Acrylonitrile
4.184	VB	113.92279	9.56426e-1	108.95869		Pentane
4.495	BB	20.94638	5.10999	107.03578		Methylene chloride
5.775	VB	134.48022	8.09773e-1	108.89844		Hexane
6.490	BB	134.79466	8.11442e-1	109.37807		Benzene
6.884	BB	49.01991	2.17359	106.54925		Trichloroethene
7.559	BB	156.74074	6.88752e-1	107.95549		Toluene
7.831	BB	46.74393	2.36284	110.44831		1,2 Dibromoethane
7.975	BB	54.65865	1.97572	107.99024		Tetrachloroethene

=====

Acq. Operator	: MGM	Seq. Line	: 7
Acq. Instrument	: Gummo online	Location	: Vial 24
Injection Date	: 29-Jul-11, 22:42:25	Inj	: 3
		Inj Volume	: External

Acq. Method : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P176R_ICR.M
Last changed : 6/6/2011 4:49:32 PM by KAM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/6/2011 4:49:09 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
2.614	BV	86.73727	1.21193	105.11971		1-3 Butadiene
3.453		-	-	-		Acetonitrile
3.583	BV	39.79803	2.67023	106.26981		Acrolein
3.691	VB	47.44424	2.22227	105.43387		Acetone
4.098	BV	51.78664	2.03116	105.18701		Acrylonitrile
4.184	VB	111.42964	9.56496e-1	106.58200		Pentane
4.497	BB	20.54854	5.11045	105.01238		Methylene chloride
5.775	VB	131.15613	8.09863e-1	106.21845		Hexane
6.491	BB	132.18237	8.11512e-1	107.26764		Benzene
6.885	BB	48.00504	2.17419	104.37195		Trichloroethene
7.560	BB	153.44102	6.88938e-1	105.71136		Toluene
7.831	BB	45.79798	2.36325	108.23189		1,2 Dibromoethane
7.976	BB	53.65440	1.97608	106.02559		Tetrachloroethene

Base Analytical
FSD 1108-200

FHR Pine Bend LLC
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=====

6890 GC METHOD

=====

OVEN

Initial temp:	35 'C (On)	Maximum temp:	250 'C
Initial time:	2.20 min	Equilibration time:	0.20 min
Ramps:			
#	Rate	Final temp	Final time
1	15.00	70	0.07
2	30.00	250	1.00
3	0.0(Off)		
Post temp:	50 'C		
Post time:	0.00 min		
Run time:	11.60 min		

FRONT INLET (SPLIT/SPLITLESS)

Mode: Split
Initial temp: 160 'C (On)
Pressure: 5.00 psi (On)
Split ratio: 5:1
Split flow: 10.6 mL/min
Total flow: 18.9 mL/min
Gas saver: Off
Gas type: Hydrogen

BACK INLET (SPLIT/SPLITLESS)

Mode: Split
Initial temp: 160 'C (On)
Pressure: 5.12 psi (On)
Split ratio: 5:1
Split flow: 10.3 mL/min
Total flow: 18.7 mL/min
Gas saver: Off
Gas type: Hydrogen

COLUMN 1

Capillary Column
Model Number: Restek 10970
Rtx-624 30m x 0.32mm x 1.8um SN 92682
Max temperature: 240 'C
Nominal length: 30.0 m
Nominal diameter: 320.00 um
Nominal film thickness: 1.80 um
Mode: constant flow
Initial flow: 2.1 mL/min
Nominal init pressure: 5.00 psi
Average velocity: 40 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

COLUMN 2

Capillary Column
Model Number: Restek 10198
Rtx-1 30m x 0.32mm x 4.0um
Max temperature: 280 'C
Nominal length: 30.0 m
Nominal diameter: 320.00 um
Nominal film thickness: 4.00 um
Mode: constant flow
Initial flow: 2.1 mL/min
Nominal init pressure: 5.12 psi
Average velocity: 39 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

FRONT DETECTOR (FID)

Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant makeup flow
Makeup flow: 45.0 mL/min (On)
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

BACK DETECTOR (FID)

Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant makeup flow
Makeup flow: 45.0 mL/min (On)
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

SIGNAL 1

Data rate: 50 Hz
Type: front detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

SIGNAL 2

Data rate: 50 Hz
Type: back detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 1

Derive from front detector

COLUMN COMP 2

Derive from back detector

THERMAL AUX 1

Use: Valve Box Heater

Description:

Initial temp: 50 'C (Off)

Initial time: 0.00 min

#	Rate	Final temp	Final time
1	0.0(Off)		

VALVES

Valve 1 Gas Sampling

Description:

Loop Volume: 0.250 mL

Load Time: 0.50 min

Inject Time: 0.50 min

Inlet: Front Inlet

Valve 2 Gas Sampling

Description:

Loop Volume: 0.250 mL

Load Time: 0.50 min

Inject Time: 0.50 min

Inlet: Back Inlet

Valve 7 Multiposition 1

Description:

BCD input: inverted

Switch Time: 1.0 sec

POST RUN

Post Time: 0.00 min

TIME TABLE

Time	Specifier
0.10	

Parameter & Setpoint
Multi-Valve Position:

1

Sequence: I:\gc2011q2\Gummo\sequence\gc119p172.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 8	gc119p172 #C5 ENV(1=0,2=450)	GC114P165	4	Sample
2	Vial 8	gc119p172 #C4 ENV(1=600,2=400)	GC114P165	3	Sample
3	Vial 8	gc119p172 #C3 ENV(1=900,2=100)	GC114P165	3	Sample
4	Vial 8	gc119p172 #C2 ENV(1=950,2=50)	GC114P165	3	Sample
5	Vial 8	gc119p172 #C1 ENV(1=980,2=20)	GC114P165	3	Sample
6	Vial 8	gc119p172 #C0 ENV(1=3990,2=20)	GC114P165	8	Sample
7	Vial 8	gc119p172 #C11 ENV(1=0,3=377)	GC114P165	4	Sample
8	Vial 8	gc119p172 #C10 ENV(1=500,3=318.69)	GC114P165	3	Sample
9	Vial 8	gc119p172 #C9 ENV(1=0,3=474)	GC114P165	4	Sample
10	Vial 8	gc119p172 #C8 ENV(1=600,3=422.16)	GC114P165	3	Sample
11	Vial 8	gc119p172 #C7 ENV(1=900,3=105.54)	GC114P165	3	Sample
12	Vial 8	gc119p172 #C6 ENV(1=980,3=21.11)	GC114P165	3	Sample
13	Vial 8	gc119p172 #C14 ENV(1=0,4=492.93)	GC114P165	4	Sample
14	Vial 8	gc119p172 #C13 ENV(1=550,4=492.93)	GC114P165	3	Sample
15	Vial 8	gc119p172 #C12 ENV(1=750,4=273.85)	GC114P165	3	Sample
16	Vial 8	gc119p172 #A5 ENV(1=0,6=250)	GC114P165	4	Sample
17	Vial 8	gc119p172 #A4 ENV(1=700,6=300)	GC114P165	3	Sample
18	Vial 8	gc119p172 #A3 ENV(1=900,6=100)	GC114P165	3	Sample
19	Vial 8	gc119p172 #A2 ENV(1=680,6=20)	GC114P165	3	Sample
20	Vial 8	gc119p172 #A1 ENV(1=1980,6=20)	GC114P165	3	Sample
21	Vial 8	gc119p172 #H4 ENV(1=0,3=250)	GC114P165	4	Sample
22	Vial 8	gc119p172 #H3 ENV(1=600,3=400)	GC114P165	3	Sample
23	Vial 8	gc119p172 #H2 ENV(1=900,3=100)	GC114P165	3	Sample
24	Vial 8	gc119p172 #H1 ENV(1=980,3=20)	GC114P165	3	Sample
25	Vial 8	gc119p172 #D5 ENV(1=0,4=350)	GC114P165	4	Sample
26	Vial 8	gc119p172 #D4 ENV(1=600,4=400)	GC114P165	3	Sample
27	Vial 8	gc119p172 #D3 ENV(1=900,4=100)	GC114P165	3	Sample
28	Vial 8	gc119p172 #D2 ENV(1=960,4=40)	GC114P165	3	Sample
29	Vial 8	gc119p172 #D1 ENV(1=1010,4=20)	GC114P165	3	Sample
30	Vial 8	gc119p172 #AN5 ENV(1=0,2=350)	GC114P165	4	Sample
31	Vial 8	gc119p172 #AN4 ENV(1=600,2=400)	GC114P165	3	Sample
32	Vial 8	gc119p172 #AN3 ENV(1=900,2=100)	GC114P165	3	Sample
33	Vial 8	gc119p172 #AN2 ENV(1=960,2=40)	GC114P165	3	Sample
34	Vial 8	gc119p172 #AN1 ENV(1=1010,2=20)	GC114P165	3	Sample
35	Vial 8	gc119p172 #T5 ENV(1=0,6=350)	GC114P165	4	Sample
36	Vial 8	gc119p172 #T4 ENV(1=600,6=400)	GC114P165	3	Sample
37	Vial 8	gc119p172 #T3 ENV(1=900,6=100)	GC114P165	3	Sample
38	Vial 8	gc119p172 #T2 ENV(1=960,6=40)	GC114P165	3	Sample
39	Vial 8	gc119p172 #T1 ENV(1=1020,6=20)	GC114P165	3	Sample
40	Vial 8	gc119p172 #Br4 ENV(1=600,5=100)	GC114P165	4	Sample
41	Vial 8	gc119p172 #Br3 ENV(1=600,5=30)	GC114P165	3	Sample
42	Vial 8	gc119p172 #Br2 ENV(1=2200,5=30)	GC114P165	3	Sample
43	Vial 8	gc119p172 #Br1 ENV(1=3200,5=20)	GC114P165	3	Sample

Sequence: I:\gc2011q2\Gummo\sequence\gc119p172.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 24	gc119p172 #C5 ENV(1=0,2=450)	3C114P165	4	Sample
2	Vial 24	gc119p172 #C4 ENV(1=600,2=400)	3C114P165	3	Sample
3	Vial 24	gc119p172 #C3 ENV(1=900,2=100)	3C114P165	3	Sample
4	Vial 24	gc119p172 #C2 ENV(1=950,2=50)	3C114P165	3	Sample
5	Vial 24	gc119p172 #C1 ENV(1=980,2=20)	3C114P165	3	Sample
6	Vial 24	gc119p172 #C0 ENV(1=3990,2=20)	3C114P165	8	Sample
7	Vial 24	gc114p102 #C11 ENV(1=0,3=377)	3C114P165	4	Sample
8	Vial 24	gc114p102 #C10 ENV(1=500,3=318.69)	3C114P165	3	Sample
9	Vial 24	gc114p102 #C9 ENV(1=0,3=474)	3C114P165	4	Sample
10	Vial 24	gc114p102 #C8 ENV(1=600,3=422.16)	3C114P165	3	Sample
11	Vial 24	gc114p102 #C7 ENV(1=900,3=105.54)	3C114P165	3	Sample
12	Vial 24	gc114p102 #C6 ENV(1=980,3=21.11)	3C114P165	3	Sample
13	Vial 24	gc119p172 #C14 ENV(1=0,4=492.93)	3C114P165	4	Sample
14	Vial 24	gc119p172 #C13 ENV(1=550,4=492.93)	3C114P165	3	Sample
15	Vial 24	gc119p172 #C12 ENV(1=750,4=273.85)	3C114P165	3	Sample
16	Vial 24	gc119p172 #A5 ENV(1=0,6=250)	3C114P165	4	Sample
17	Vial 24	gc119p172 #A4 ENV(1=700,6=300)	3C114P165	3	Sample
18	Vial 24	gc119p172 #A3 ENV(1=900,6=100)	3C114P165	3	Sample
19	Vial 24	gc119p172 #A2 ENV(1=680,6=20)	3C114P165	3	Sample
20	Vial 24	gc119p172 #A1 ENV(1=1980,6=20)	3C114P165	3	Sample
21	Vial 24	gc119p172 #H4 ENV(1=0,3=250)	3C114P165	4	Sample
22	Vial 24	gc119p172 #H3 ENV(1=600,3=400)	3C114P165	3	Sample
23	Vial 24	gc119p172 #H2 ENV(1=900,3=100)	3C114P165	3	Sample
24	Vial 24	gc119p172 #H1 ENV(1=980,3=20)	3C114P165	3	Sample
25	Vial 24	gc119p172 #D5 ENV(1=0,4=350)	3C114P165	4	Sample
26	Vial 24	gc119p172 #D4 ENV(1=600,4=400)	3C114P165	3	Sample
27	Vial 24	gc119p172 #D3 ENV(1=900,4=100)	3C114P165	3	Sample
28	Vial 24	gc119p172 #D2 ENV(1=960,4=40)	3C114P165	3	Sample
29	Vial 24	gc119p172 #D1 ENV(1=1010,4=20)	3C114P165	3	Sample
30	Vial 24	gc119p172 #AN5 ENV(1=0,2=350)	3C114P165	4	Sample
31	Vial 24	gc119p172 #AN4 ENV(1=600,2=400)	3C114P165	3	Sample
32	Vial 24	gc119p172 #AN3 ENV(1=900,2=100)	3C114P165	3	Sample
33	Vial 24	gc119p172 #AN2 ENV(1=960,2=40)	3C114P165	3	Sample
34	Vial 24	gc119p172 #AN1 ENV(1=1010,2=20)	3C114P165	3	Sample
35	Vial 24	gc119p172 #T5 ENV(1=0,6=350)	3C114P165	4	Sample
36	Vial 24	gc119p172 #T4 ENV(1=600,6=400)	3C114P165	3	Sample
37	Vial 24	gc119p172 #T3 ENV(1=900,6=100)	3C114P165	3	Sample
38	Vial 24	gc119p172 #T2 ENV(1=960,6=40)	3C114P165	3	Sample
39	Vial 24	gc119p172 #T1 ENV(1=1020,6=20)	3C114P165	3	Sample
40	Vial 24	gc119p172 #Br4 ENV(1=600,5=100)	3C114P165	4	Sample
41	Vial 24	gc119p172 #Br3 ENV(1=600,5=30)	3C114P165	3	Sample
42	Vial 24	gc119p172 #Br2 ENV(1=2200,5=30)	3C114P165	3	Sample
43	Vial 24	gc119p172 #Br1 ENV(1=3200,5=20)	3C114P165	3	Sample

Sequence: I:\gc2011q2\Gummo\sequence\gc119p176.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 8	gc119p176 #I5 ENV(1=0,4=350)	GC114P165	4	Sample
2	Vial 8	gc119p176 #I4 ENV(1=600,4=400)	GC114P165	3	Sample
3	Vial 8	gc119p176 #I3 ENV(1=900,4=100)	GC114P165	3	Sample
4	Vial 8	gc119p176 #I2 ENV(1=960,4=40)	GC114P165	3	Sample
5	Vial 8	gc119p176 #I1 ENV(1=1010,4=20)	GC114P165	3	Sample
6	Vial 8	gc119p176 #I0 ENV(1=1980,4=20)	GC114P165	9	Sample
7	Vial 1	Pause	PAUSE	1	Sample
8	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	4	Sample
9	Vial 8	gc119p172 #AN4 ENV(1=600,5=400)	GC114P165	4	Sample
10	Vial 1	Pause	PAUSE	1	Sample
11	Vial 2	NA	GC114P165	3	Sample
12	Vial 7	NA	GC114P165	3	Sample
13	Vial 1	Pause	PAUSE	1	Sample
14	Vial 8	gc119p176 #AN0 ENV(1=1980,5=20)	GC114P165	4	Sample
15	Vial 8	gc119p176 #I4 ENV(1=600,4=400)	GC114P165	3	Sample
16	Vial 8	gc119p176 #I4 ENV(1=600,4=400)	GC114P165	3	Sample
17	Vial 8	gc119p176 #I6 ENV(1=4980,4=20)	GC114P165	9	Sample
18	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
19	Vial 1	Pause	PAUSE	1	Sample
20	Vial 8	gc119p172 #AN4 ENV(1=600,5=400)	GC114P165	4	Sample
21	Vial 8	gc119p176 #AN0 ENV(1=1980,5=20)	GC114P165	4	Sample

Sequence: I:\gc2011q2\Gummo\sequence\gc119p176.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 24	gc119p176 #I5 ENV(1=0,4=350)	GC114P172R	4	Sample
2	Vial 24	gc119p176 #I4 ENV(1=600,4=400)	GC114P172R	3	Sample
3	Vial 24	gc119p176 #I3 ENV(1=900,4=100)	GC114P172R	3	Sample
4	Vial 24	gc119p176 #I2 ENV(1=960,4=40)	GC114P172R	3	Sample
5	Vial 24	gc119p176 #I1 ENV(1=1010,4=20)	GC114P172R	3	Sample
6	Vial 24	gc119p176 #I0 ENV(1=1980,4=20)	GC114P172R	9	Sample
7	Vial 17	Pause	PAUSE	1	Sample
8	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	GC114P172R	4	Sample
9	Vial 24	gc119p172 #AN4 ENV(1=600,5=400)	GC114P172R	4	Sample
10	Vial 17	Pause	PAUSE	1	Sample
11	Vial 18	1-CR3 Outlet 0511-142	GC114P172R	3	Sample
12	Vial 23	2-CR3 Outlet 0511-142	GC114P172R	3	Sample
13	Vial 17	Pause	PAUSE	1	Sample
14	Vial 24	gc119p176 #AN0 ENV(1=1980,5=20)	GC114P176R	4	Sample
15	Vial 24	gc119p176 #I4 ENV(1=600,4=400)	GC114P172R	3	Sample
16	Vial 24	gc119p176 #I4 ENV(1=600,4=400)	GC114P172R	3	Sample
17	Vial 24	gc119p176 #I6 ENV(1=4980,4=20)	GC114P172R	9	Sample
18	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	GC114P172R	3	Sample
19	Vial 17	Pause	PAUSE	1	Sample
20	Vial 24	gc119p172 #AN4 ENV(1=600,5=400)	GC114P172R	4	Sample
21	Vial 24	gc119p176 #AN0 ENV(1=1980,5=20)	GC114P176R	4	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p027.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 2	NA	GC114P165	3	Sample
2	Vial 10	gc119p176 #I4 LCS	GC114P165	3	Sample
3	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
4	Vial 1	Pause	PAUSE	1	Sample
5	Vial 3	NA	GC114P165	3	Sample
6	Vial 1	Pause	PAUSE	1	Sample
7	Vial 2	NA	GC114P165	3	Sample
8	Vial 3	NA	GC114P165	3	Sample
9	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
10	Vial 3	NA	GC114P165	3	Sample
11	Vial 4	NA	GC114P165	3	Sample
12	Vial 5	NA	GC114P165	3	Sample
13	Vial 1	N2 Blank	GC114P165	3	Sample
14	Vial 10	gc119p176 #I4 LCS	GC114P165	3	Sample
15	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
16	Vial 6	NA	GC114P165	3	Sample
17	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
18	Vial 8	gc119p172 #H1 ENV(1=980,4=20)	GC114P165	9	Sample
19	Vial 1	Pause	PAUSE	1	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p027.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 18	R1 S&R 0611-49	I4P176R_ICR	3	Sample
2	Vial 26	gc119p176 #I4 LCS	I4P176R_ICR	3	Sample
3	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
4	Vial 17	Pause	PAUSE	1	Sample
5	Vial 19	U-12 CWTS R2 S&R 0611-176	I4P176R_ICR	3	Sample
6	Vial 17	Pause	PAUSE	1	Sample
7	Vial 18	BP-WV-A4-M18-Bag 0711-08	I4P176R_ICR	3	Sample
8	Vial 19	T1R1 M18 Bag 0711-81	I4P176R_ICR	3	Sample
9	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
10	Vial 19	T1R1 M18 Bag 0711-81	I4P176R_ICR	3	Sample
11	Vial 20	T1R2 M18 Bag 0711-81	I4P176R_ICR	3	Sample
12	Vial 21	T1R3 M18 Bag 0711-81	I4P176R_ICR	3	Sample
13	Vial 17	N2 Blank	I4P176R_ICR	3	Sample
14	Vial 26	gc119p176 #I4 LCS	I4P176R_ICR	3	Sample
15	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
16	Vial 22	gc119p172 #C5 LCS	I4P176R_ICR	3	Sample
17	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
18	Vial 24	gc119p172 #H1 ENV(1=980,4=20)	I4P176R_ICR	9	Sample
19	Vial 17	Pause	PAUSE	1	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p029.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 2	NA	GC114P165	3	Sample
2	Vial 3	NA	GC114P165	3	Sample
3	Vial 1	Pause	PAUSE	1	Sample
4	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
5	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
6	Vial 1	Pause	PAUSE	1	Sample
7	Vial 2	NA	GC114P165	3	Sample
8	Vial 3	NA	GC114P165	3	Sample
9	Vial 4	NA	GC114P165	3	Sample
10	Vial 5	NA	GC114P165	3	Sample
11	Vial 6	NA	GC114P165	3	Sample
12	Vial 7	NA	GC114P165	3	Sample
13	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
14	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
15	Vial 8	gc126p029 #H1 ENV(1=1240,5=10)	GC114P165	9	Sample
16	Vial 8	gc119p176 #H4 ENV(1=750,4=250)	GC114P165	3	Sample
17	Vial 8	gc126p029 #H4 ENV(1=600,5=400)	GC114P165	3	Sample
18	Vial 8	gc126p024 #DM3 ENV(1=900,6=100.29)	GC114P165	3	Sample
19	Vial 9	Train 4-R2-Bag S&R 0711-113	GC114P165	3	Sample
20	Vial 8	gc126p024 #DM3 ENV(1=900,6=100.29)	GC114P165	3	Sample
21	Vial 1	Pause	PAUSE	1	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p029.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 18	EM-R1-Bag-DCU S&R 0711-64	I4P176R_ICR	3	Sample
2	Vial 19	EM-R1-Bag-DCU S&R * 31 0711-64	I4P176R_ICR	3	Sample
3	Vial 17	Pause	PAUSE	1	Sample
4	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
5	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
6	Vial 17	Pause	PAUSE	1	Sample
7	Vial 18	EM-R1-Bag-DCU S&R 0711-64	I4P176R_ICR	3	Sample
8	Vial 19	EM-R1-Bag-DCU S&R 0711-64	I4P176R_ICR	3	Sample
9	Vial 20	OutDrumVaporPhase-TC1-103 0711-77	I4P176R_ICR	3	Sample
10	Vial 21	OutStkVent-TC1-102 0711-77	I4P176R_ICR	3	Sample
11	Vial 22	OutStkVent-TC1-103 0711-77	I4P176R_ICR	3	Sample
12	Vial 23	T1R1 M18 Bag S&R 0711-81	I4P176R_ICR	3	Sample
13	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
14	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
15	Vial 24	gc126p029 #H1 ENV(1=1240,5=10)	I4P176R_ICR	9	Sample
16	Vial 24	gc119p176 #H4 ENV(1=750,4=250)	I4P176R_ICR	3	Sample
17	Vial 24	gc126p029 #H4 ENV(1=600,5=400)	I4P176R_ICR	3	Sample
18	Vial 24	gc126p024 #DM3 ENV(1=900,6=100.29)	I4P176R_ICR	3	Sample
19	Vial 25	NA	I4P176R_ICR	3	Sample
20	Vial 24	gc126p024 #DM3 ENV(1=900,6=100.29)	I4P176R_ICR	3	Sample
21	Vial 17	Pause	PAUSE	1	Sample

THE LINDE GROUP

Linde

SHIPPED TO: Enthalpy Analytical, Inc
2202 Ellis Road
Durham, NC 27703-5521

PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#:	108129258	Cylinder Size:	2 (9" X 51")
Production#:	1178674	Cylinder #:	9166803
Certification Date:	May-20-2011	Cylinder Pressure:	500 psig
P.O.#:	C05031101GAT	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	44 Liter
Material#:	24090232	Cylinder Material:	Steel
Traceability:	NIST by weight	Gas Volume:	1500 Liter
Expiration Date:	May-20-2012	Blend Tolerance:	5% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	2% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,3-Butadiene	106-99-0	250 ppm	257 ppm
Acrolein	107-02-8	250 ppm	257 ppm
Acetone	67-64-1	250 ppm	257 ppm
Pentane	109-66-0	250 ppm	257 ppm
Acrylonitrile	107-13-1	250 ppm	256 ppm
Carbon Disulfide	75-15-0	250 ppm	258 ppm
Methylene Chloride	75-09-2	250 ppm	257 ppm
Hexane	110-54-3	250 ppm	257 ppm
Benzene	71-43-2	250 ppm	256 ppm
Trichloroethene	79-01-6	250 ppm	256 ppm
Toluene	108-88-3	250 ppm	256 ppm
1,2-Dibromoethane	106-93-4	250 ppm	257 ppm
Tetrachloroethene	127-18-4	250 ppm	257 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST:

Lou Lorenzetti

DATE: May-20-2011



**MATHESON
TRI-GAS**

ask...The Gas Professionals™

Certified Mixture Grade

Matheson Tri-Gas Inc.

6874 S. Main Street
Morrow GA 30260

Phone: 770-961 4606

Fax: 770-968 1268

TO: Enthalpy Analytical
2202 Ellis Rd Suite A
Durham, NC 27703

TO AVOID BACKFILL, CYLINDER PRESSURE MUST BE
GREATER THAN PROCESS PRESSURE

SALES ORDER NUMBER: 566239

P.O. NUMBER: CO4281105GAT

LOT NUMBER: 1051619101

PHONE:

FAX:

PRODUCT:

CYLINDER NUMBER: SX48676

SIZE: 1R

CGA/DISS OUTLET: 350

CONTENT: 138.6 cu. ft.

PRESSURE: 2000 psig

FILL DATE: May 2, 2011

CERTIFICATION DATE: May 2, 2011

EXPIRATION DATE: May 2, 2012

COMPONENT	REQUESTED CONCENTRATION	BLEND TOLERANCE (+/-)	CERTIFIED CONCENTRATION	CERTIFICATION ACCURACY
Acetonitrile	250 ppm	10 %	249.4 ppm	+/- 2%
Nitrogen, Balance				

TRACEABLE TO REFERENCE STANDARD SOURCE/NUMBER:

TRACEABLE TO NIST TRACEABLE WEIGHT CERTIFICATE: 513987

SPECIAL INFORMATION / ADDITIONAL COMMENTS

The product listed above and furnished under the referenced purchase order has been tested and found to contain the component concentration listed above. All values in mole/mole basis gas phase unless otherwise indicated. Matheson Tri-Gas Inc. warrants that the above product(s) conform at the time of shipment to the above description. Matheson Tri-Gas Inc. liability does not exceed the value of the product purchased.

Derek Stuck

ANALYST
Pace Analytical
FSD 1108-200


SIGNATURE

May 2, 2011

DATE SIGNED
FHR Pine Bend LLC
Page B-747 of 1576

THE LINDE GROUP

Linde

SHIPPED TO: Enthalpy Analytical, Inc
2202 Ellis Road
Durham, NC 27703-5521

PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#:	108129258	Cylinder Size:	2 (9" X 51")
Production#:	1178675	Cylinder # :	9166603
Certification Date:	May-20-2011	Cylinder Pressure:	850 psig
P.O.# :	C05031101GAT	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	44 Liter
Material#:	24087889	Cylinder Material:	Steel
Traceability:	NIST by weight	Gas Volume:	2540 Liter
Expiration Date:	May-20-2012	Blend Tolerance:	5% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	2% Relative

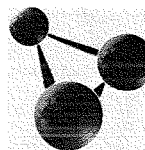
COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,3-Butadiene	106-99-0	500 ppm	508 ppm
Acrolein	107-02-8	500 ppm	501 ppm
Acetone	67-64-1	500 ppm	495 ppm
Methylene Chloride	75-09-2	500 ppm	500 ppm
Hexane	110-54-3	500 ppm	501 ppm
Benzene	71-43-2	500 ppm	505 ppm
Trichloroethene	79-01-6	500 ppm	507 ppm
Toluene	108-88-3	500 ppm	508 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST:

Lou Lorenzetti
Lou Lorenzetti

DATE: May-20-2011

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

Enthalpy Analytical, Inc.
2202 Ellis Road, Suite A
Durham, NC 27703-5518

Tel: (919) 850-4392

Cylinder Number SG9127449BAL
Cylinder Size/CGA: AL150/350
Fill Pressure: 1400 PSIA
Gas Volume: 2634 liters
Date of Mfg: 3/26/09
Expiration Date: 3/26/12

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00127703NC	Pick up	032609-001	CMD030909CJCB	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Methane	1 %	1.002 % +/- 0.02 %	Gravimetric Master Gas
Ethane	1 %	0.999 % +/- 0.02 %	
Propane	1 %	1.002 % +/- 0.02 %	
n-Butane	1 %	0.999 % +/- 0.02 %	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/-2%
Analytical Tolerance: +/-2%
Traceability: NIST by weight set / Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Authorized Signature:

Joseph A. Ernst

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Cylinder Library

Cylinder Name: K-Factor: ☒ Automatic ☐ Manual Creation Date:

Information: Expiration Date: ☒ No Expiration Date

Contents

Interest	Balance	Gas Name	Symbol	Concentration	Units	K-Factor
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NITROGEN	N2	959980.00	ppm	1.000
<input checked="" type="checkbox"/>	<input type="checkbox"/>	METHANE	CH4	10020.00	ppm	0.7192
<input type="checkbox"/>	<input type="checkbox"/>	ETHANE	C2H6	9990.00	ppm	0.4805
<input type="checkbox"/>	<input type="checkbox"/>	PROPANE	C3H8	10020.00	ppm	0.3483
<input type="checkbox"/>	<input type="checkbox"/>	BUTANE	C4H10	9990.00	ppm	0.2554
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					

Sample Chromatograms

Sample Name: FHR_FCC_ICR Run1 0711-81

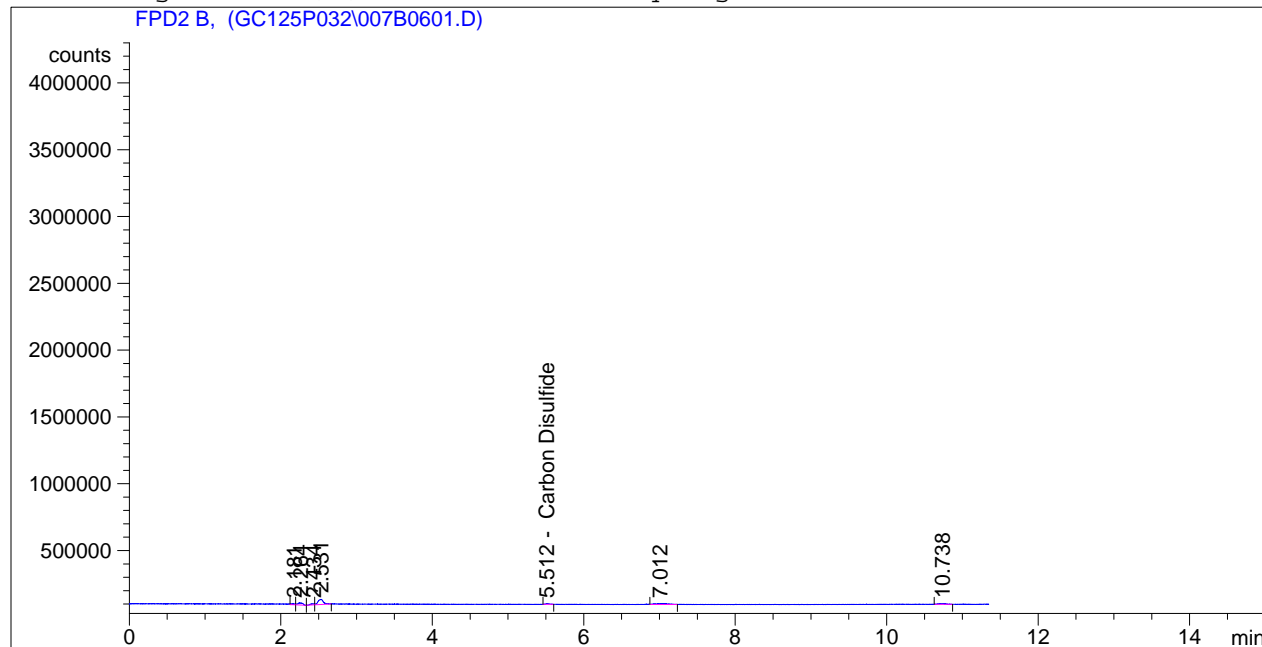
T1R1 M18 bag

```

=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 2:34:03 PM      Inj       :    1
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.512	BB	2.20609e4	8.55214e-6	1.88668e-1		Carbon Disulfide

Totals : 1.88668e-1

```

=====
*** End of Report ***
=====

```


Sample Name: FHR_FCC_ICR Run1 0711-81

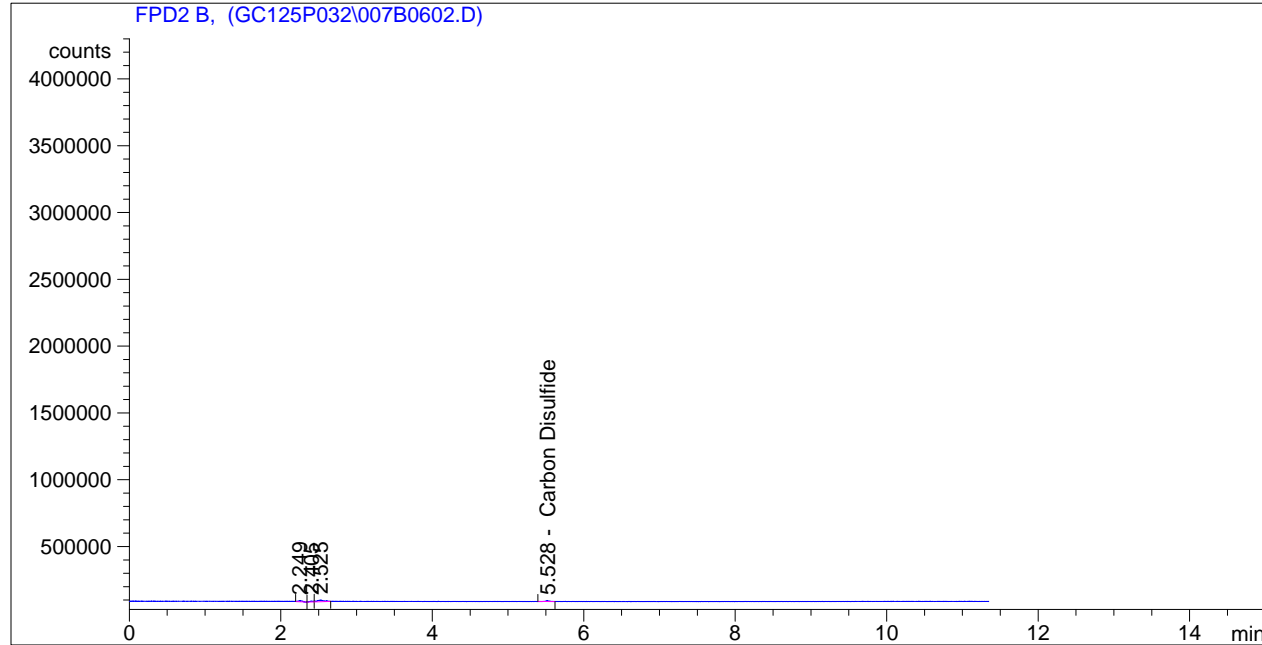
T1R1 M18 bag

```

=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 2:49:59 PM      Inj       :    2
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By      :      Signal
Calib. Data Modified : 8/1/2011 12:43:10 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.528	BB	1.94122e4	9.11421e-6	1.76927e-1		Carbon Disulfide

Totals : 1.76927e-1

```

=====
*** End of Report ***
=====

```

Sample Name: FHR_FCC_ICR Run1 0711-81

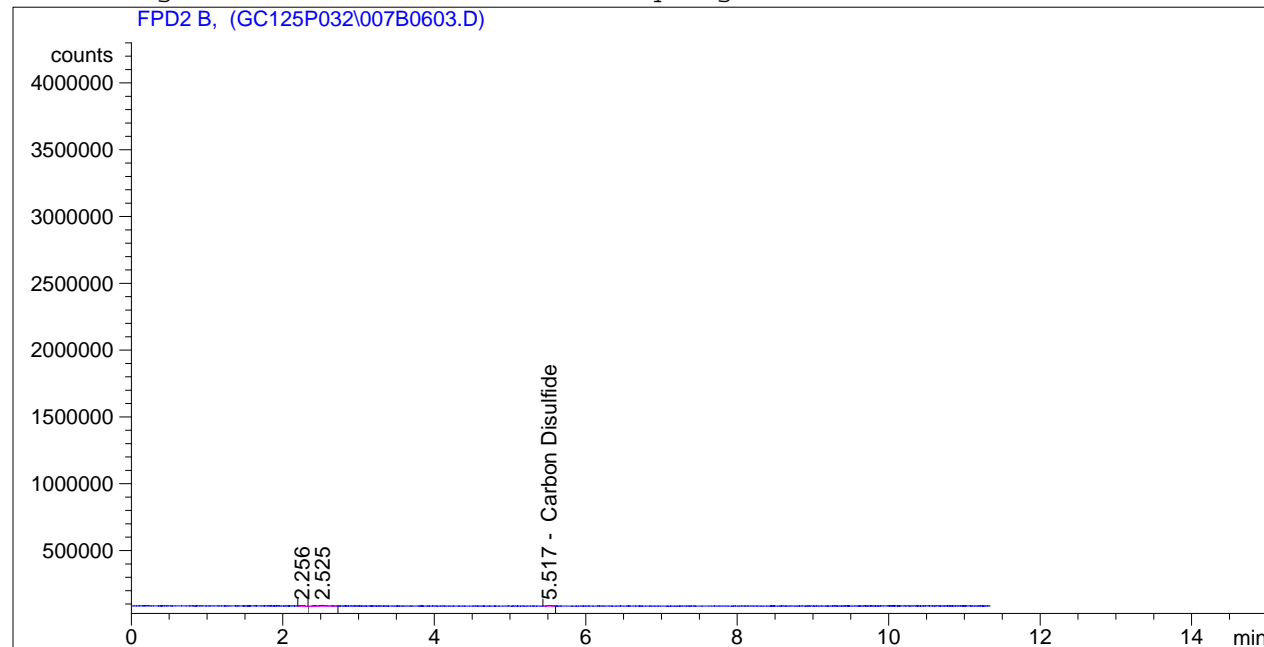
T1R1 M18 bag

```

=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 3:05:55 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.517	BB	1.26171e4	1.12938e-5	1.42495e-1		Carbon Disulfide

Totals : 1.42495e-1

```

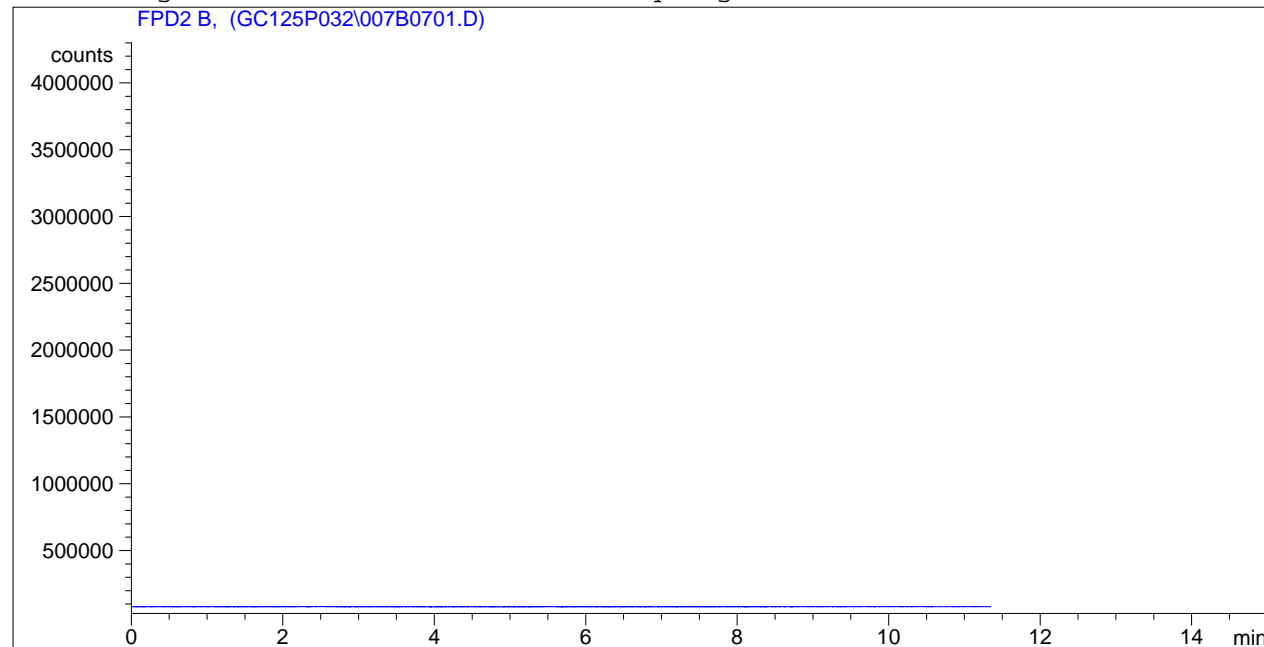
=====
*** End of Report ***
=====

```

T1R2 M18 bag

```
=====
Acq. Operator   : stg                      Seq. Line :    7
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 4:11:01 PM      Inj       :    1
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

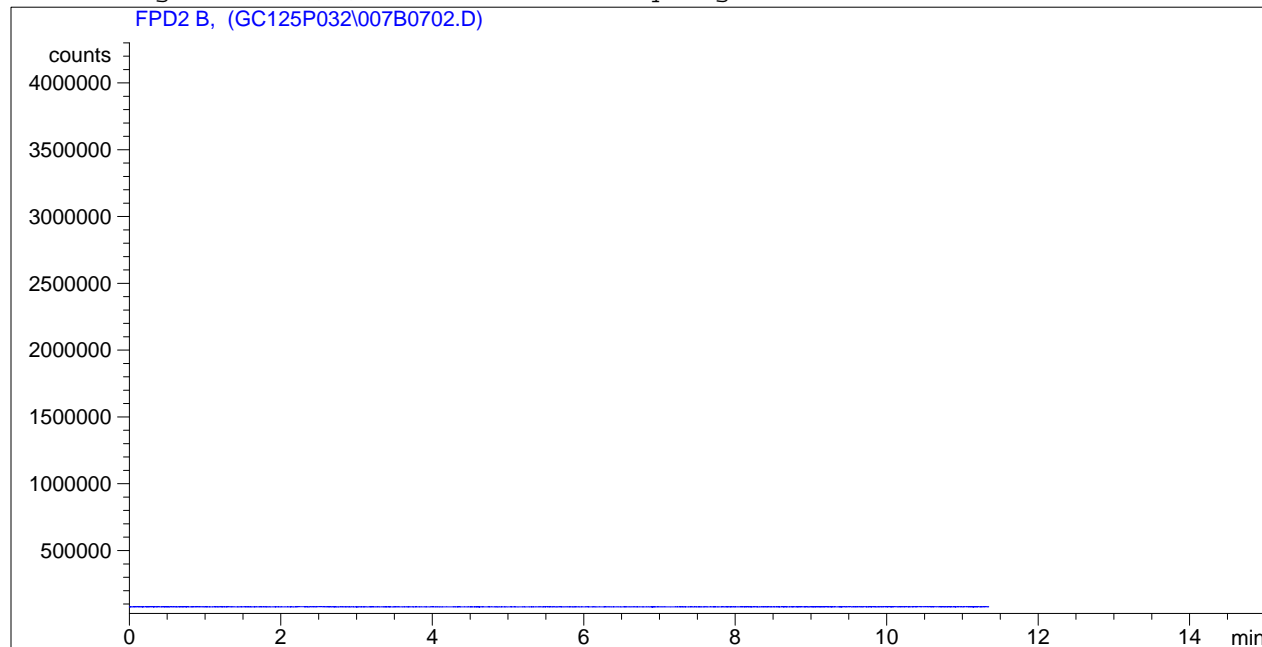
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

T1R2 M18 bag

```
=====
Acq. Operator   : stg                      Seq. Line :    7
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 4:27:01 PM      Inj       :    2
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

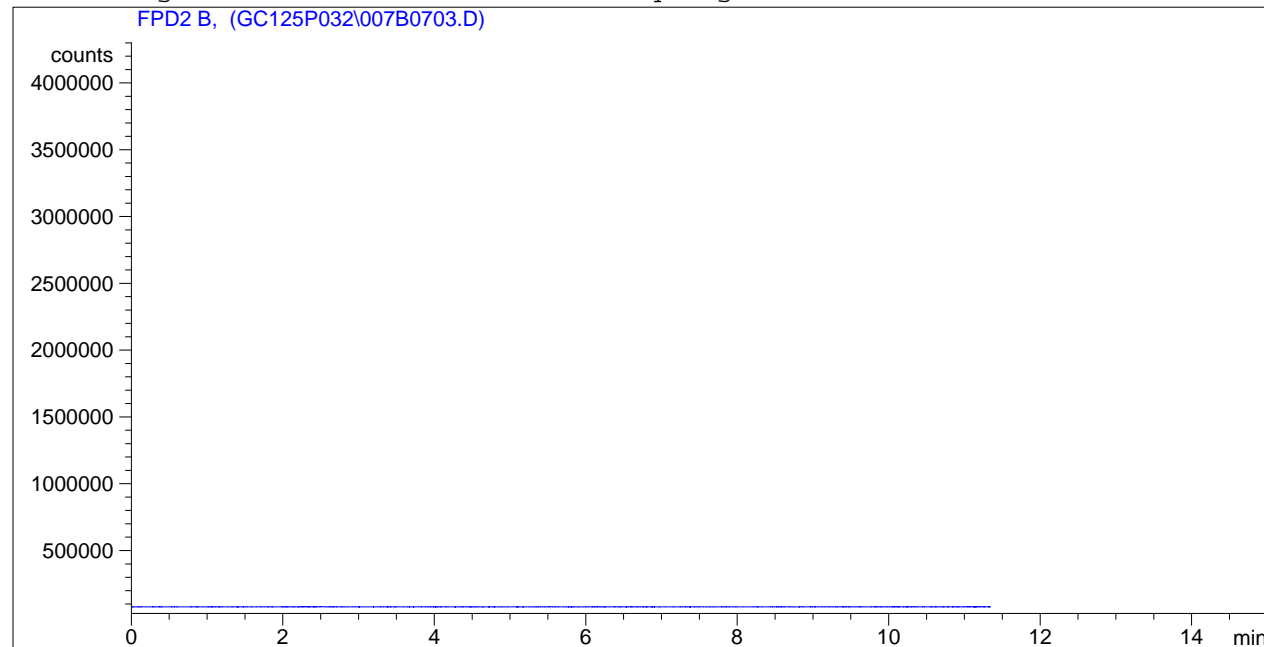
T1R2 M18 bag

```

=====
Acq. Operator   : stg                      Seq. Line :    7
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 4:43:01 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

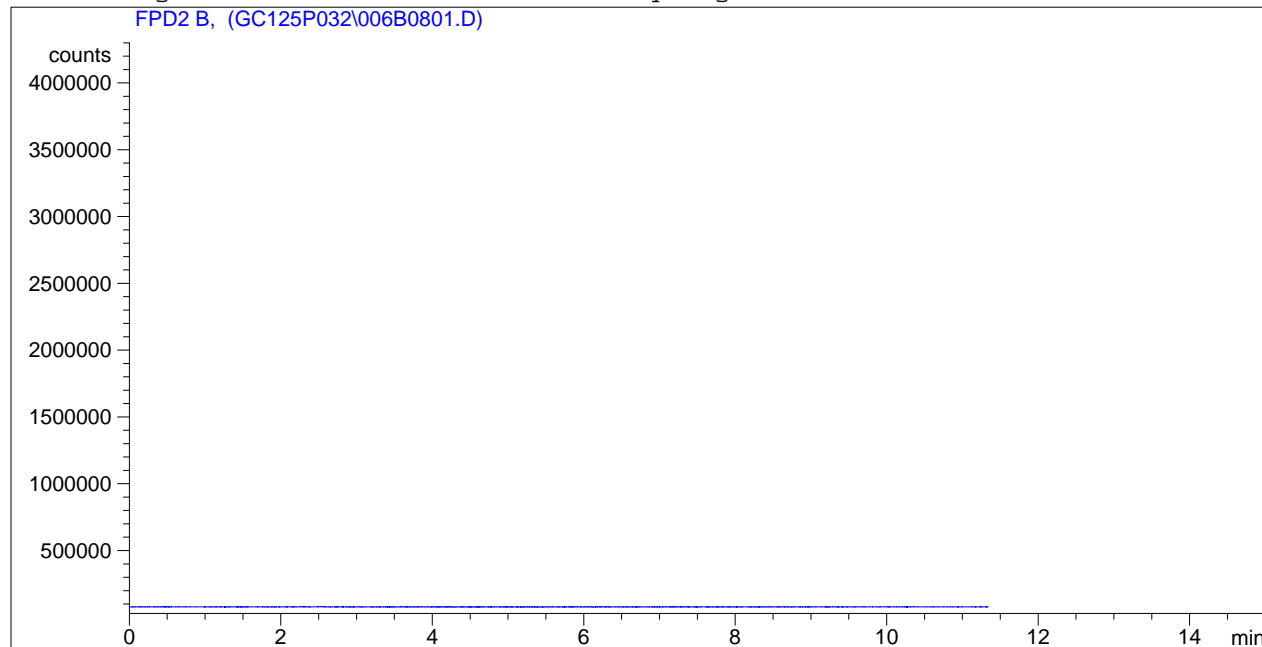
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

T1R3 M18 bag

```
=====
Acq. Operator   : stg                      Seq. Line :    8
Acq. Instrument : Zeppo online             Location  : Vial 6
Injection Date  : 7/27/2011 4:59:01 PM     Inj       :    1
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

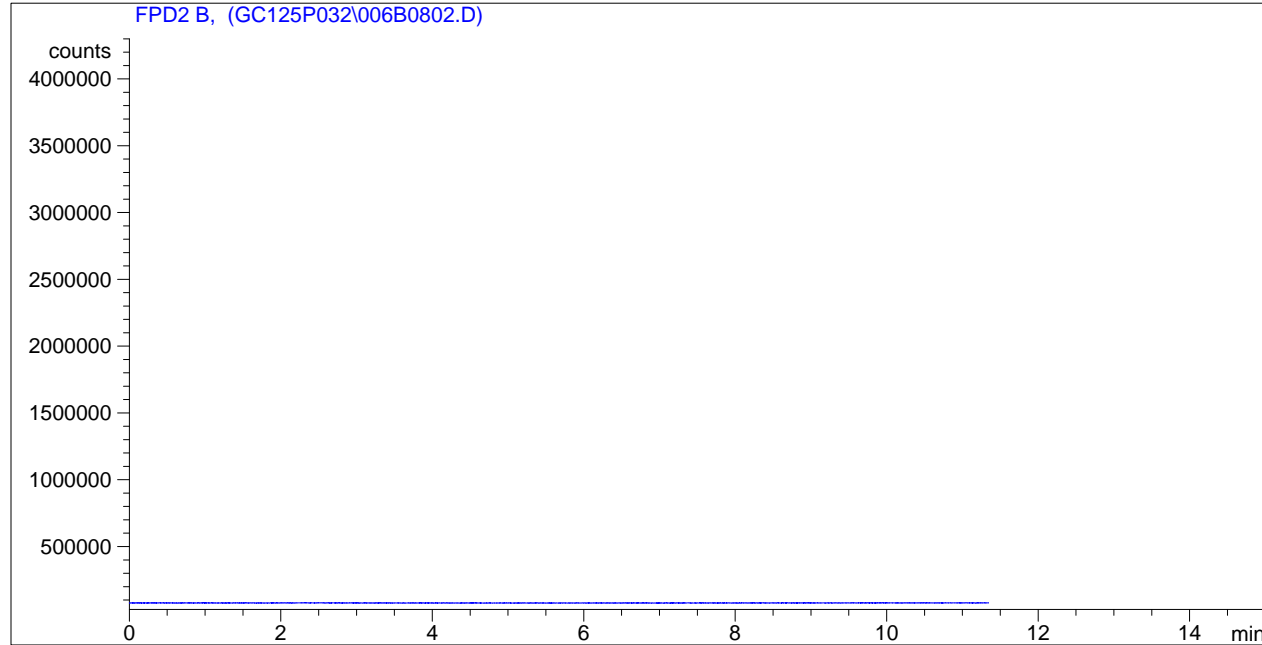
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

T1R3 M18 bag

```
=====
Acq. Operator   : stg                      Seq. Line :    8
Acq. Instrument : Zeppo online             Location  : Vial 6
Injection Date  : 7/27/2011 5:15:00 PM      Inj       :    2
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

1 Warnings or Errors :

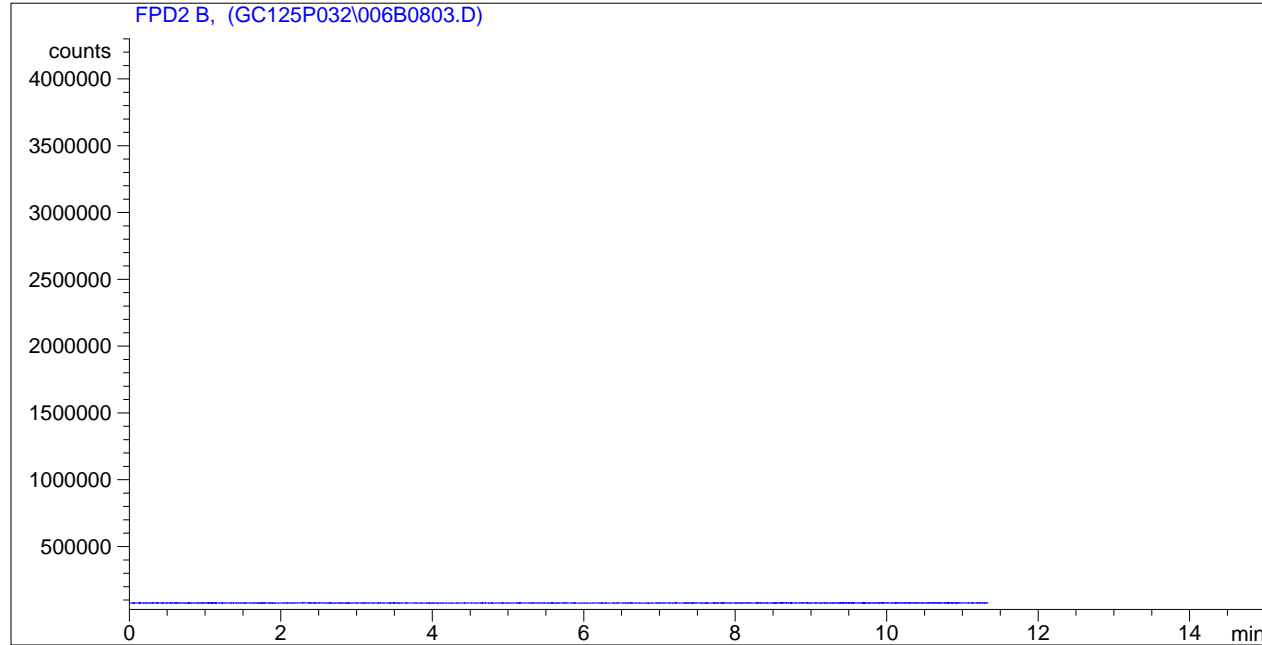
Warning : Calibrated compound(s) not found

Sample Name: FHR_FCC_ICR Run3 0711-81

T1R3 M18 bag

```
=====
Acq. Operator   : stg                      Seq. Line :    8
Acq. Instrument : Zeppo online              Location  : Vial 6
Injection Date  : 7/27/2011 5:31:00 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed     : 8/1/2011 12:43:44 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

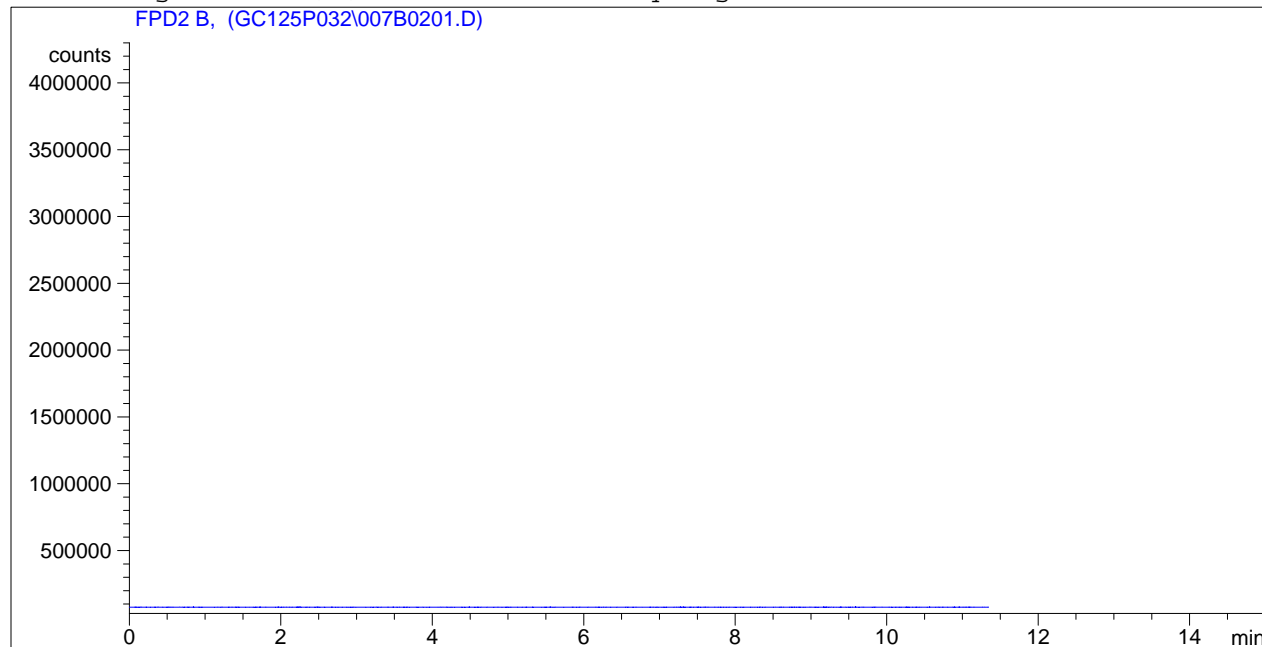
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found


```
=====
Acq. Operator   : stg                      Seq. Line :    2
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 11:51:55 AM     Inj       :    1
                                           Inj Volume: External
Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

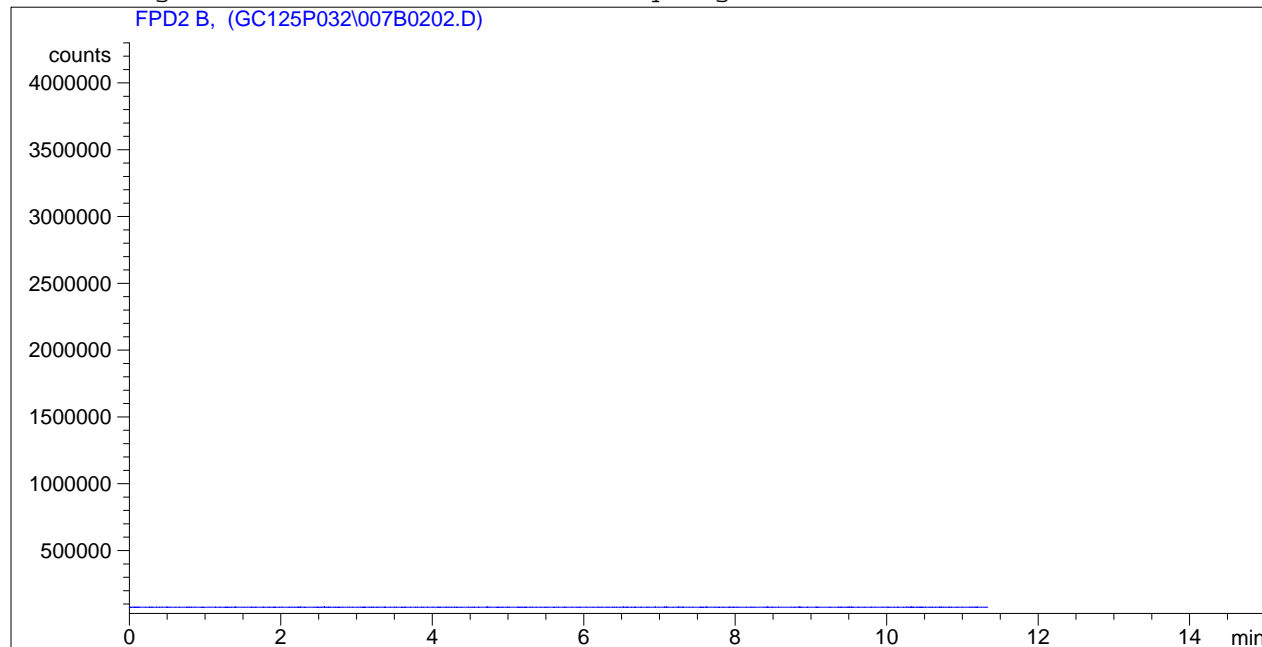
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : stg                      Seq. Line :    2
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 12:07:53 PM     Inj       :    2
                                           Inj Volume: External
Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

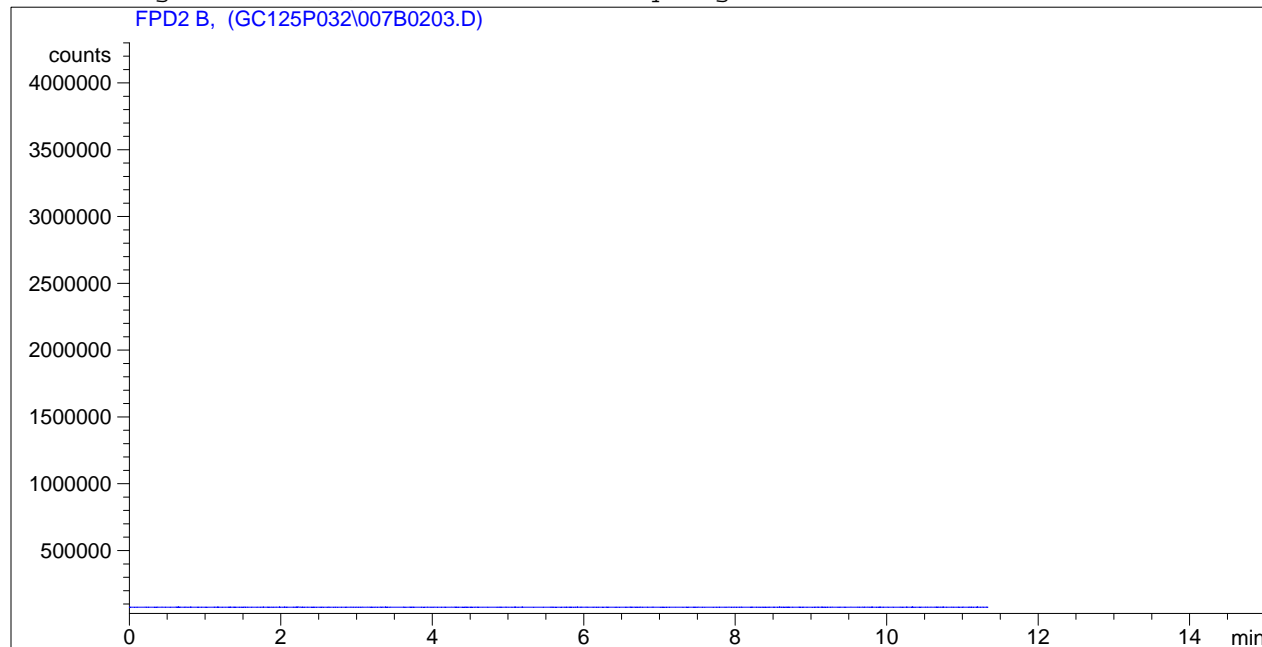
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : stg                      Seq. Line :    2
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 12:23:52 PM     Inj       :    3
                                           Inj Volume: External

Sequence File   : C:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : C:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST_CS2.M
Last changed    : 8/1/2011 12:43:44 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/1/2011 12:43:10 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
5.543	-	-	-	-	-	Carbon Disulfide

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Calibration Curve Chromatograms

```

=====
                        Calibration Table
=====

```

Calib. Data Modified : 8/1/2011 12:43:10 PM

Rel. Reference Window : 1.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 1.000 %
 Abs. Non-ref. Window : 0.100 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Power
 Origin : Ignored
 Weight : Equal

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
 Signal 2: FPD2 B,

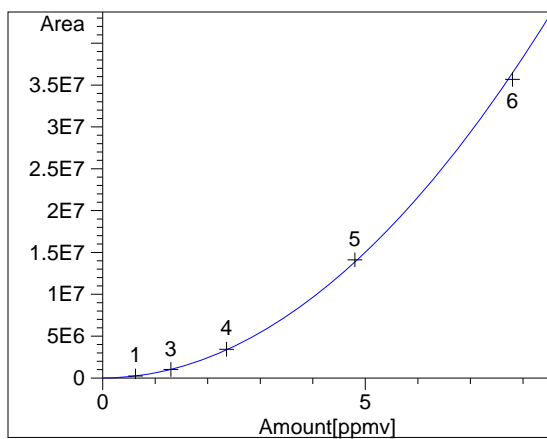
RetTime [min]	Lvl Sig	Amount [ppmv]	Area	Amt/Area	Ref Grp Name
5.543	2 1	6.26000e-1	2.39266e5	2.61633e-6	Carbon Disulfide
	3	1.30000	1.01824e6	1.27671e-6	
	4	2.36000	3.42578e6	6.88893e-7	
	5	4.80000	1.41161e7	3.40037e-7	
	6	7.80000	3.56889e7	2.18555e-7	

```

=====
                        Peak Sum Table
=====

```

No Entries in table

=====
Calibration Curves
=====

Carbon Disulfide at exp. RT: 5.543
FPD2 B,
Correlation: 0.99988
Residual Std. Dev.: 451432.16769
Formula: $y = b * x^m$
m: 1.99070
b: 610230.65315
x: Amount
y: Area

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : 7/29/2011 11:54:30 AM

Rel. Reference Window : 1.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 1.000 %
 Abs. Non-ref. Window : 0.100 min
 Uncalibrated Peaks : Separately calculated (see below)
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Power
 Origin : Ignored
 Weight : Equal

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
 Uncalibrated Peaks : not reported
 Signal 2: FPD2 B,
 Uncalibrated Peaks : using compound Methyl Mercaptan

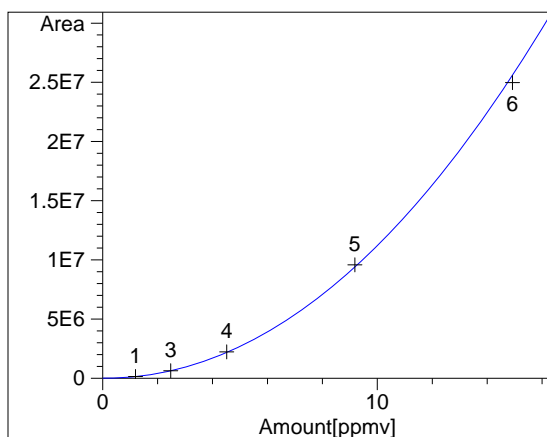
RetTime [min]	Lvl Sig	Amount [ppmv]	Area	Amt/Area	Ref Grp Name
2.500	2 1	1.19800	1.39438e5	8.59166e-6	Hydrogen Sulfide
	3	2.48000	6.27535e5	3.95197e-6	
	4	4.52000	2.22456e6	2.03187e-6	
	5	9.18000	9.57316e6	9.58931e-7	
	6	14.92000	2.49730e7	5.97446e-7	
2.677	2 1	5.08000e-1	3.80814e4	1.33398e-5	Carbonyl Sulfide
	3	1.05000	1.39068e5	7.55026e-6	
	4	1.92000	4.45762e5	4.30723e-6	
	5	3.89000	1.78171e6	2.18329e-6	
	6	6.32000	4.48617e6	1.40878e-6	
	7	18.87820	3.94168e7	4.78938e-7	
3.536	2 1	4.21000e-1	2.17626e4	1.93451e-5	Methyl Mercaptan
	3	8.71000e-1	8.33179e4	1.04539e-5	
	4	1.59000	2.74818e5	5.78564e-6	
	5	3.22000	1.14851e6	2.80363e-6	
	6	5.24000	3.00769e6	1.74220e-6	
	7	15.56000	2.74474e7	5.66902e-7	
5.105	2 1	5.18000e-1	4.53165e4	1.14307e-5	Dimethyl Sulfide
	3	1.07000	1.74925e5	6.11692e-6	
	4	1.96000	5.71859e5	3.42742e-6	
	5	3.97000	2.34457e6	1.69328e-6	
	6	6.45000	6.05308e6	1.06557e-6	
	7	19.27000	5.24373e7	3.67487e-7	
5.543	2 1	6.26000e-1	2.39266e5	2.61633e-6	Carbon Disulfide
	3	1.30000	1.01824e6	1.27671e-6	

RetTime	Lvl	Amount	Area	Amt/Area	Ref	Grp	Name
[min]	Sig	[ppmv]					
-----	--	--	-----	-----	---	--	-----
		4	2.36000	3.42578e6	6.88893e-7		
		5	4.80000	1.41161e7	3.40037e-7		
		6	7.80000	3.56889e7	2.18555e-7		
8.147	2	1	1.11000e-1	1.24452e4	8.91909e-6		Dimethyl Disulfide
		3	2.30000e-1	4.34136e4	5.29788e-6		
		4	4.19000e-1	1.39750e5	2.99821e-6		
		5	8.50000e-1	5.63580e5	1.50822e-6		
		6	1.38000	1.44628e6	9.54171e-7		
		7	4.13000	1.26971e7	3.25270e-7		

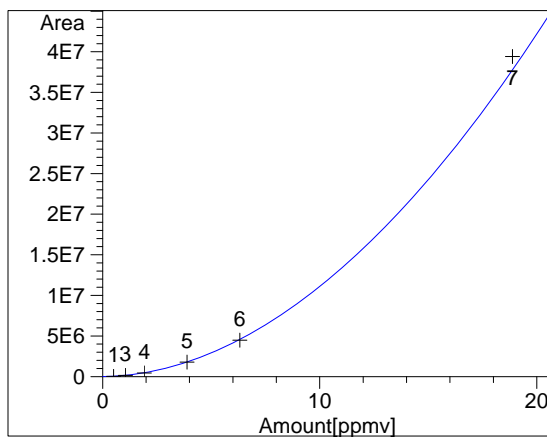
=====
Peak Sum Table
=====

No Entries in table
=====

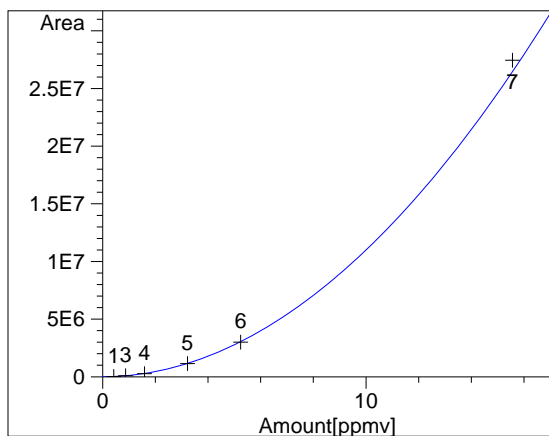
=====
Calibration Curves
=====



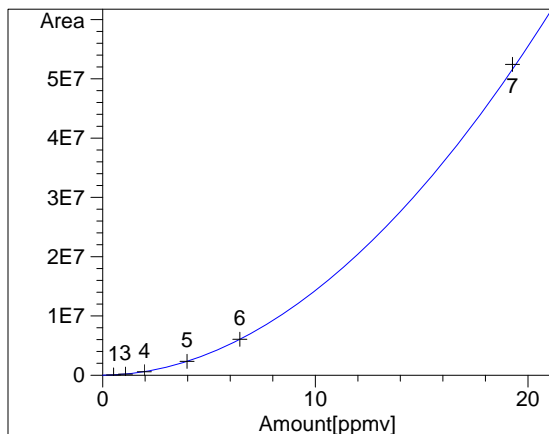
Hydrogen Sulfide at exp. RT: 2.500
FPD2 B,
Correlation: 0.99986
Residual Std. Dev.: 371915.16957
Formula: $y = b * x^m$
m: 2.06306
b: 96943.23143
x: Amount
y: Area



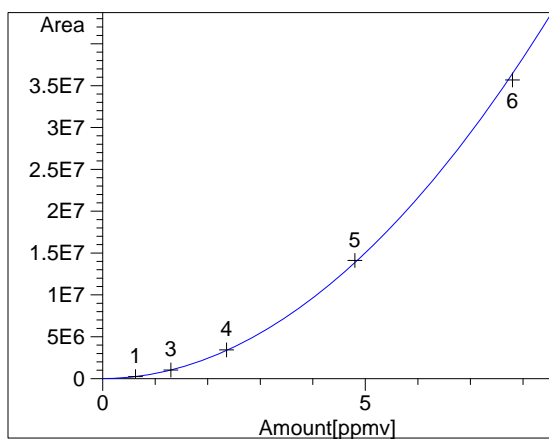
Carbonyl Sulfide at exp. RT: 2.677
FPD2 B,
Correlation: 0.99997
Residual Std. Dev.: 826590.42343
Formula: $y = b * x^m$
m: 1.92642
b: 131544.87336
x: Amount
y: Area



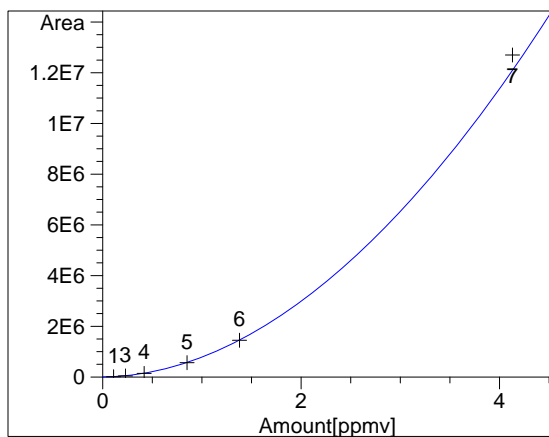
Methyl Mercaptan at exp. RT: 3.536
 FPD2 B,
 Correlation: 0.99999
 Residual Std. Dev.: 497711.30324
 Formula: $y = b * x^m$
 m: 1.98513
 b: 113808.90015
 x: Amount
 y: Area



Dimethyl Sulfide at exp. RT: 5.105
 FPD2 B,
 Correlation: 1.00000
 Residual Std. Dev.: 422469.08144
 Formula: $y = b * x^m$
 m: 1.95728
 b: 157655.47278
 x: Amount
 y: Area



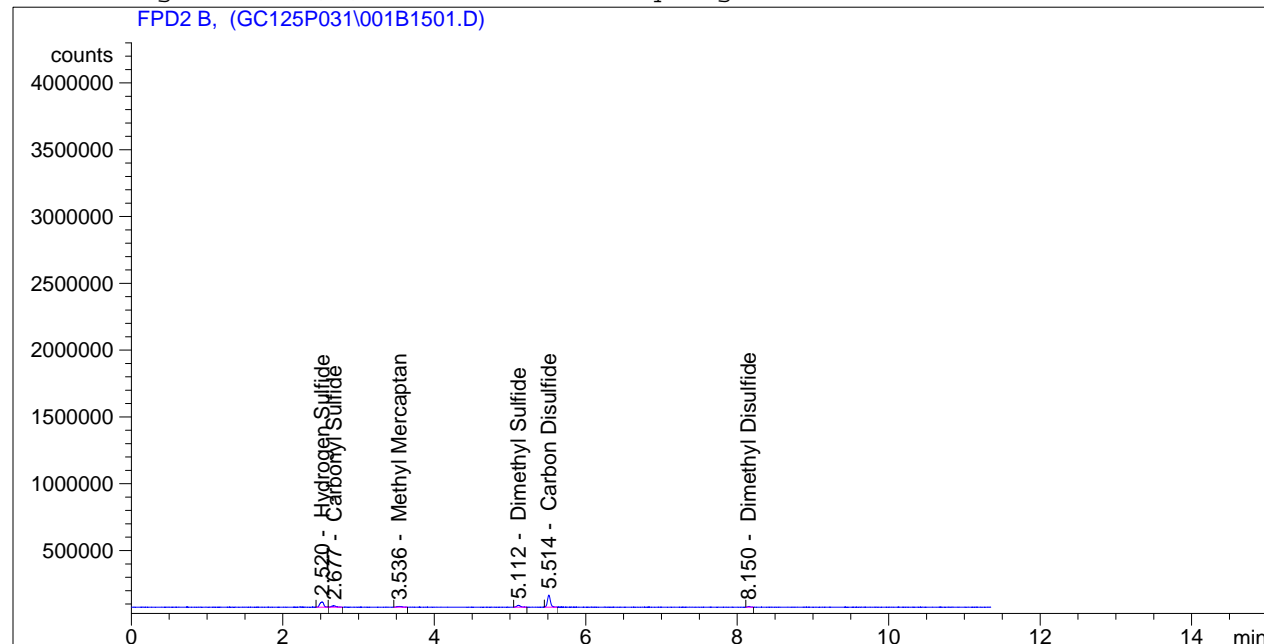
Carbon Disulfide at exp. RT: 5.543
 FPD2 B,
 Correlation: 0.99988
 Residual Std. Dev.: 451432.16769
 Formula: $y = b * x^m$
 m: 1.99070
 b: 610230.65315
 x: Amount
 y: Area



Dimethyl Disulfide at exp. RT: 8.147
 FPD2 B,
 Correlation: 0.99998
 Residual Std. Dev.: 301789.38496
 Formula: $y = b * x^m$
 m: 1.92775
 b: 785536.46041
 x: Amount
 y: Area

```
=====
Acq. Operator   : stg                      Seq. Line :   15
Acq. Instrument : Zeppo online              Location  : Vial 1
Injection Date  : 7/27/2011 4:46:44 AM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	1.40500e5	8.52000e-6	1.19706		Hydrogen Sulfide
2.677	VB	4.05279e4	1.33913e-5	5.42719e-1		Carbonyl Sulfide
3.536	BB	2.31297e4	1.93747e-5	4.48132e-1		Methyl Mercaptan
5.112	BB	4.77198e4	1.13797e-5	5.43040e-1		Dimethyl Sulfide
5.514	BB	2.41625e5	2.59862e-6	6.27891e-1		Carbon Disulfide
8.150	BB	1.27149e4	9.26195e-6	1.17765e-1		Dimethyl Disulfide

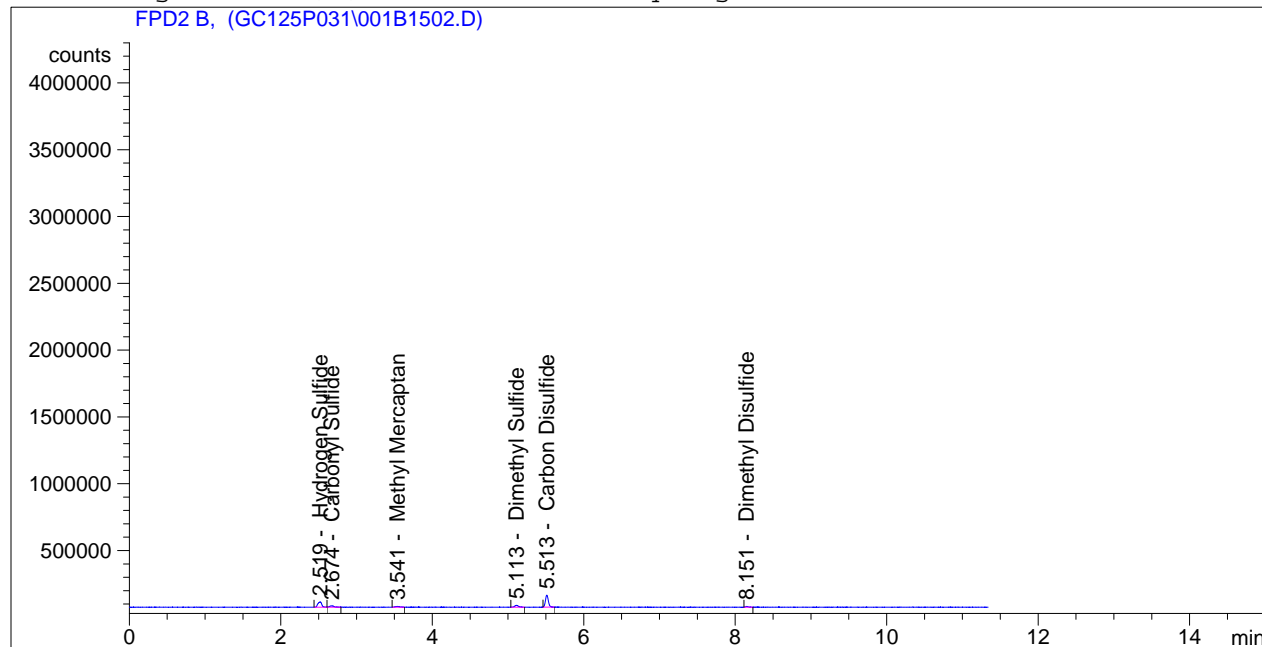
Totals : 3.47661

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   15
Acq. Instrument : Zeppo online              Location  : Vial 1
Injection Date  : 7/27/2011 5:02:39 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.519	BV	1.40894e5	8.50772e-6	1.19869		Hydrogen Sulfide
2.674	VB	3.69508e4	1.39997e-5	5.17301e-1		Carbonyl Sulfide
3.541	BB	1.98376e4	2.09087e-5	4.14778e-1		Methyl Mercaptan
5.113	BB	4.41852e4	1.18162e-5	5.22102e-1		Dimethyl Sulfide
5.513	BB	2.39333e5	2.61097e-6	6.24892e-1		Carbon Disulfide
8.151	BB	1.28827e4	9.20371e-6	1.18568e-1		Dimethyl Disulfide

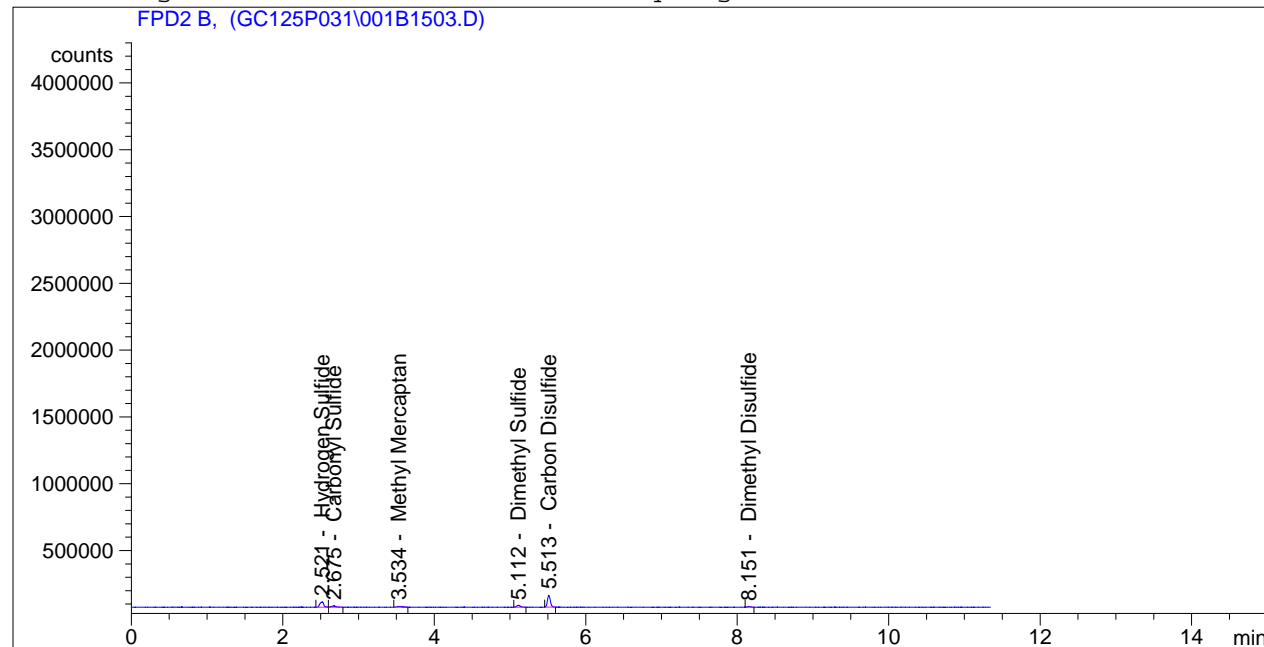
Totals : 3.39633

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   15
Acq. Instrument : Zeppo online              Location  : Vial 1
Injection Date  : 7/27/2011 5:18:31 AM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	1.36918e5	8.63413e-6	1.18217		Hydrogen Sulfide
2.675	VB	3.67657e4	1.40336e-5	5.15955e-1		Carbonyl Sulfide
3.534	BB	2.23205e4	1.97202e-5	4.40164e-1		Methyl Mercaptan
5.112	BB	4.40446e4	1.18347e-5	5.21253e-1		Dimethyl Sulfide
5.513	BB	2.36840e5	2.62461e-6	6.21615e-1		Carbon Disulfide
8.151	BB	1.17381e4	9.62521e-6	1.12981e-1		Dimethyl Disulfide

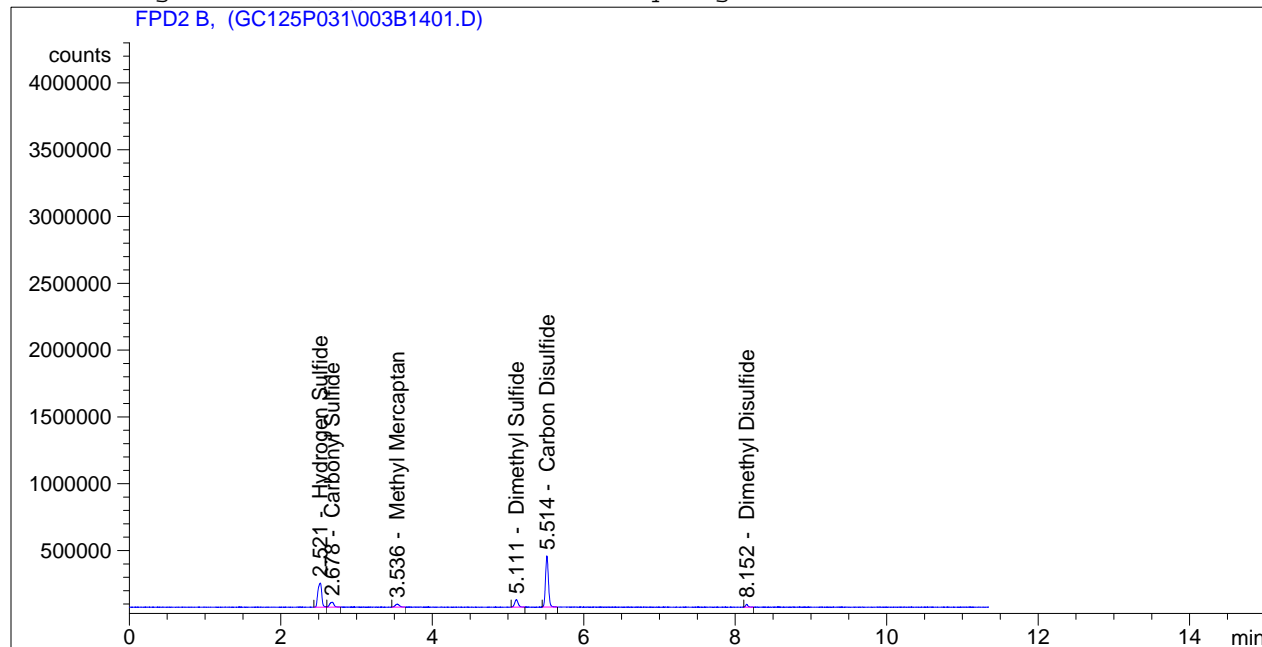
Totals : 3.39414

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   14
Acq. Instrument : Zeppo online             Location  : Vial 3
Injection Date  : 7/27/2011 3:59:09 AM     Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	6.32839e5	3.92321e-6	2.48276		Hydrogen Sulfide
2.678	VB	1.39836e5	7.38176e-6	1.03224		Carbonyl Sulfide
3.536	BB	8.27800e4	1.02904e-5	8.51838e-1		Methyl Mercaptan
5.111	BB	1.76967e5	5.99441e-6	1.06081		Dimethyl Sulfide
5.514	BB	1.02352e6	1.26686e-6	1.29666		Carbon Disulfide
8.152	BB	4.42826e4	5.08039e-6	2.24973e-1		Dimethyl Disulfide

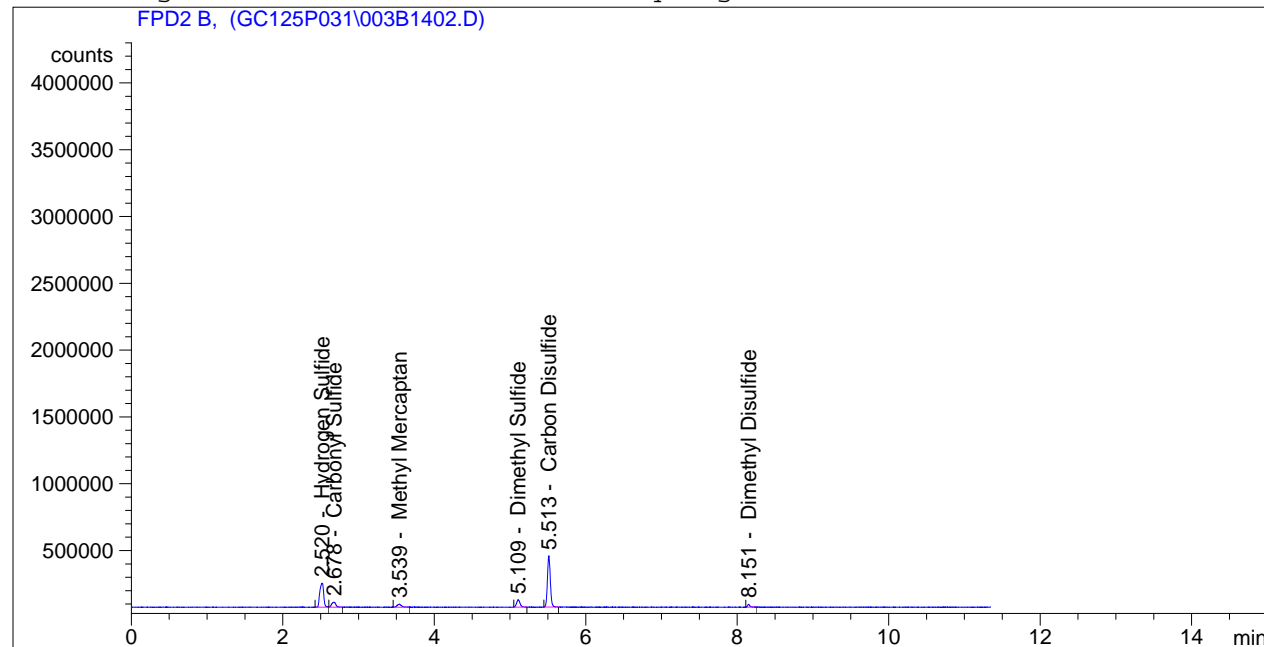
Totals : 6.94928

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   14
Acq. Instrument : Zeppo online              Location  : Vial 3
Injection Date  : 7/27/2011 4:15:01 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	6.27690e5	3.93976e-6	2.47295		Hydrogen Sulfide
2.678	VB	1.39975e5	7.37825e-6	1.03277		Carbonyl Sulfide
3.539	BB	8.46456e4	1.01772e-5	8.61455e-1		Methyl Mercaptan
5.109	BB	1.73766e5	6.04816e-6	1.05097		Dimethyl Sulfide
5.513	BB	1.01612e6	1.27145e-6	1.29194		Carbon Disulfide
8.151	BB	4.31779e4	5.14254e-6	2.22044e-1		Dimethyl Disulfide

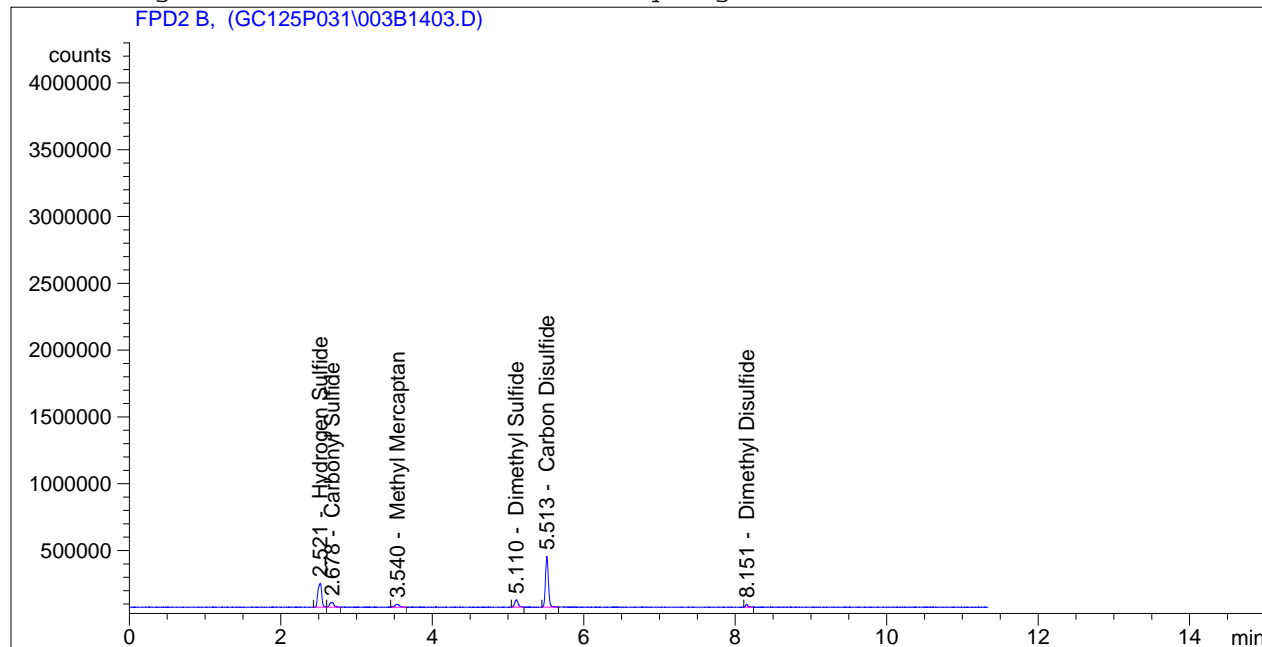
Totals : 6.93212

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   14
Acq. Instrument : Zeppo online              Location  : Vial 3
Injection Date  : 7/27/2011 4:30:52 AM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	6.22077e5	3.95804e-6	2.46220		Hydrogen Sulfide
2.678	VB	1.37393e5	7.44460e-6	1.02284		Carbonyl Sulfide
3.540	BB	8.25280e4	1.03060e-5	8.50531e-1		Methyl Mercaptan
5.110	BB	1.74040e5	6.04352e-6	1.05181		Dimethyl Sulfide
5.513	BB	1.01510e6	1.27208e-6	1.29129		Carbon Disulfide
8.151	BB	4.27803e4	5.16548e-6	2.20981e-1		Dimethyl Disulfide

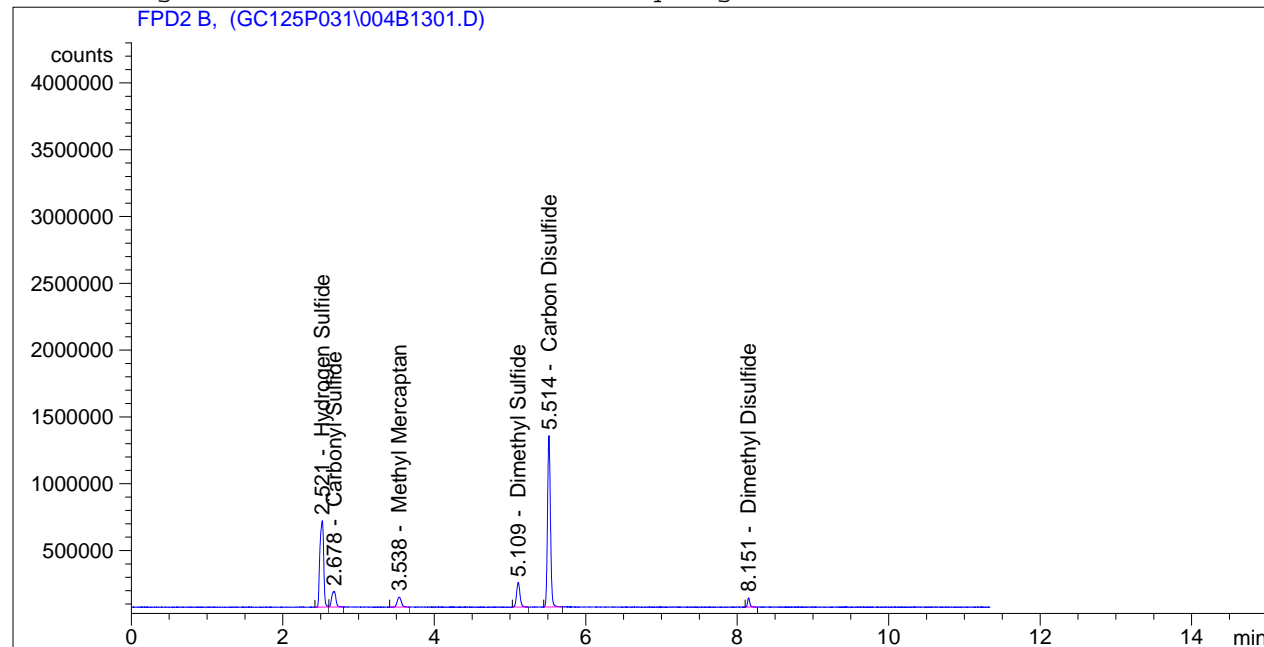
Totals : 6.89965

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   13
Acq. Instrument : Zeppo online             Location  : Vial 4
Injection Date  : 7/27/2011 3:11:26 AM     Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	2.23849e6	2.04609e-6	4.58016		Hydrogen Sulfide
2.678	VB	4.46166e5	4.22517e-6	1.88513		Carbonyl Sulfide
3.538	BB	2.76983e5	5.65109e-6	1.56525		Methyl Mercaptan
5.109	BB	5.74361e5	3.37039e-6	1.93582		Dimethyl Sulfide
5.514	BB	3.42765e6	6.94232e-7	2.37958		Carbon Disulfide
8.151	BB	1.41930e5	2.90038e-6	4.11651e-1		Dimethyl Disulfide

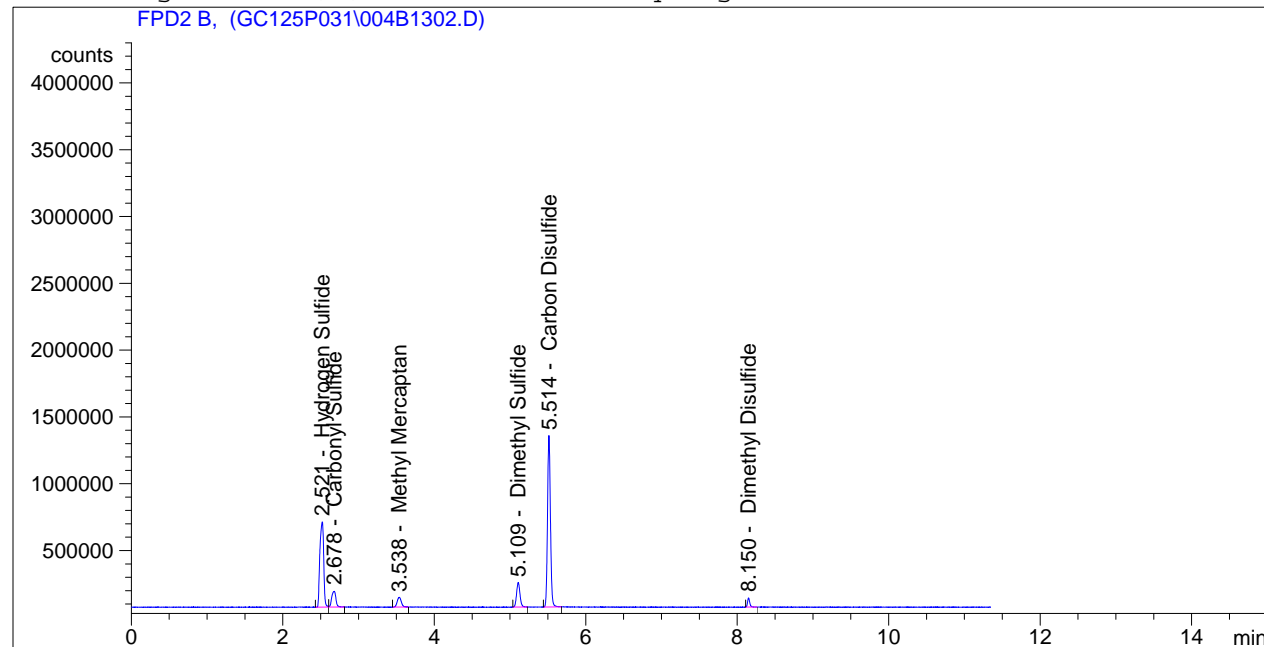
Totals : 12.75759

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :   13
Acq. Instrument : Zeppo online              Location  : Vial 4
Injection Date  : 7/27/2011 3:27:22 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	2.22464e6	2.05264e-6	4.56640		Hydrogen Sulfide
2.678	VB	4.49075e5	4.21199e-6	1.89150		Carbonyl Sulfide
3.538	BB	2.74725e5	5.67408e-6	1.55881		Methyl Mercaptan
5.109	BB	5.72245e5	3.37648e-6	1.93217		Dimethyl Sulfide
5.514	BB	3.43034e6	6.93961e-7	2.38052		Carbon Disulfide
8.150	BB	1.37722e5	2.94270e-6	4.05274e-1		Dimethyl Disulfide

Totals : 12.73468

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

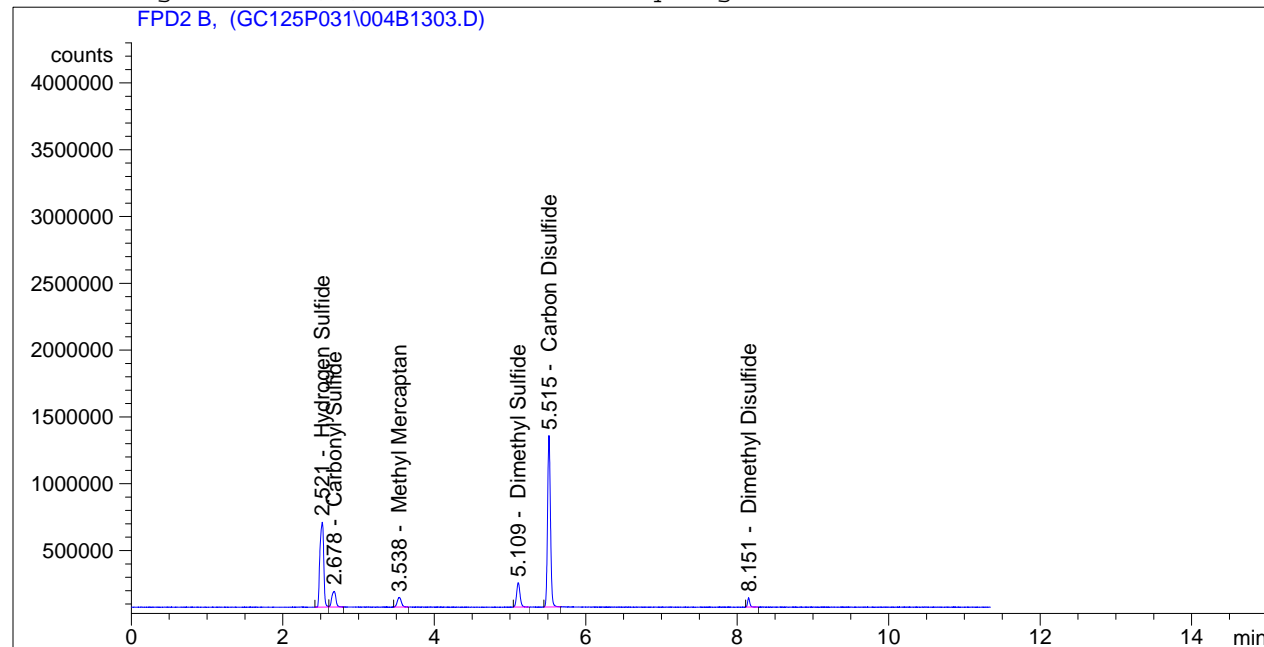
Sample Name: gc125p013 #4

```

=====
Acq. Operator   : stg                      Seq. Line :   13
Acq. Instrument : Zeppo online              Location  : Vial 4
Injection Date  : 7/27/2011 3:43:14 AM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	2.21053e6	2.05938e-6	4.55234		Hydrogen Sulfide
2.678	VB	4.42044e5	4.24407e-6	1.87607		Carbonyl Sulfide
3.538	BB	2.72747e5	5.69447e-6	1.55315		Methyl Mercaptan
5.109	BB	5.68972e5	3.38596e-6	1.92652		Dimethyl Sulfide
5.515	BB	3.41936e6	6.95069e-7	2.37669		Carbon Disulfide
8.151	BB	1.39599e5	2.92360e-6	4.08130e-1		Dimethyl Disulfide

Totals : 12.69289

Uncalibrated Peaks : using compound Methyl Mercaptan

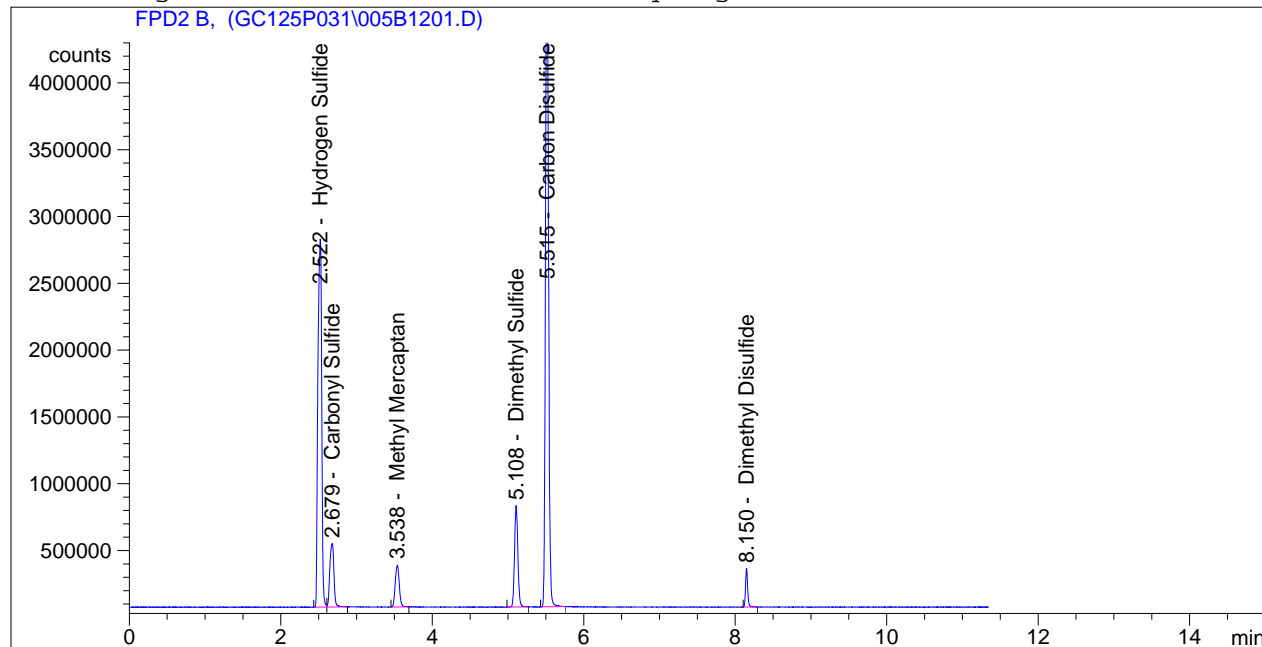
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : stg                      Seq. Line :   12
Acq. Instrument : Zeppo online              Location  : Vial 5
Injection Date  : 7/27/2011 2:23:49 AM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.522	BV	9.58850e6	9.66876e-7	9.27089		Hydrogen Sulfide
2.679	VB	1.78960e6	2.16639e-6	3.87695		Carbonyl Sulfide
3.538	BB	1.15349e6	2.78401e-6	3.21133		Methyl Mercaptan
5.108	BB	2.33977e6	1.69567e-6	3.96748		Dimethyl Sulfide
5.515	BB	1.40783e7	3.43685e-7	4.83849		Carbon Disulfide
8.150	BB	5.65911e5	1.49065e-6	8.43572e-1		Dimethyl Disulfide

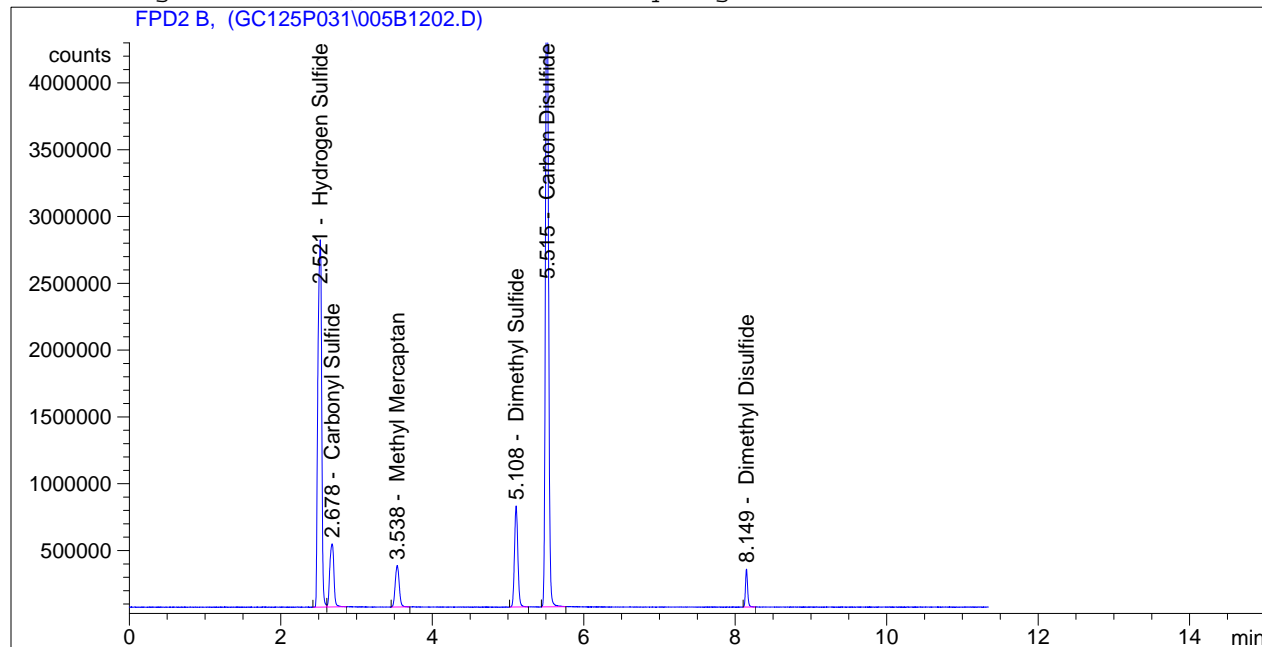
Totals : 26.00872

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   12
Acq. Instrument : Zeppo online              Location  : Vial 5
Injection Date  : 7/27/2011 2:39:44 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	9.55828e6	9.68450e-7	9.25671		Hydrogen Sulfide
2.678	VB	1.78124e6	2.17127e-6	3.86754		Carbonyl Sulfide
3.538	BB	1.14517e6	2.79403e-6	3.19965		Methyl Mercaptan
5.108	BB	2.34418e6	1.69411e-6	3.97130		Dimethyl Sulfide
5.515	BB	1.40988e7	3.43436e-7	4.84204		Carbon Disulfide
8.149	BB	5.63108e5	1.49421e-6	8.41402e-1		Dimethyl Disulfide

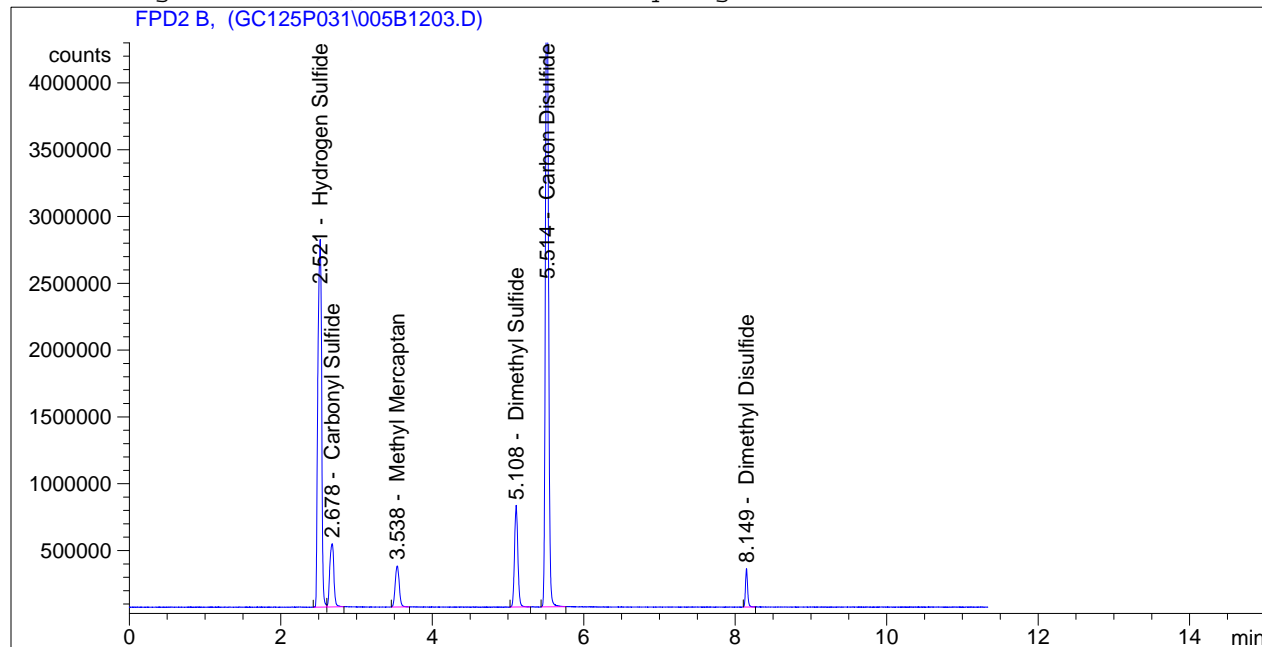
Totals : 25.97865

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   12
Acq. Instrument : Zeppo online              Location  : Vial 5
Injection Date  : 7/27/2011 2:55:35 AM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	9.57269e6	9.67698e-7	9.26348		Hydrogen Sulfide
2.678	VB	1.77431e6	2.17534e-6	3.85973		Carbonyl Sulfide
3.538	BB	1.14687e6	2.79198e-6	3.20203		Methyl Mercaptan
5.108	BB	2.34975e6	1.69215e-6	3.97612		Dimethyl Sulfide
5.514	BB	1.41713e7	3.42561e-7	4.85453		Carbon Disulfide
8.149	BB	5.61721e5	1.49599e-6	8.40326e-1		Dimethyl Disulfide

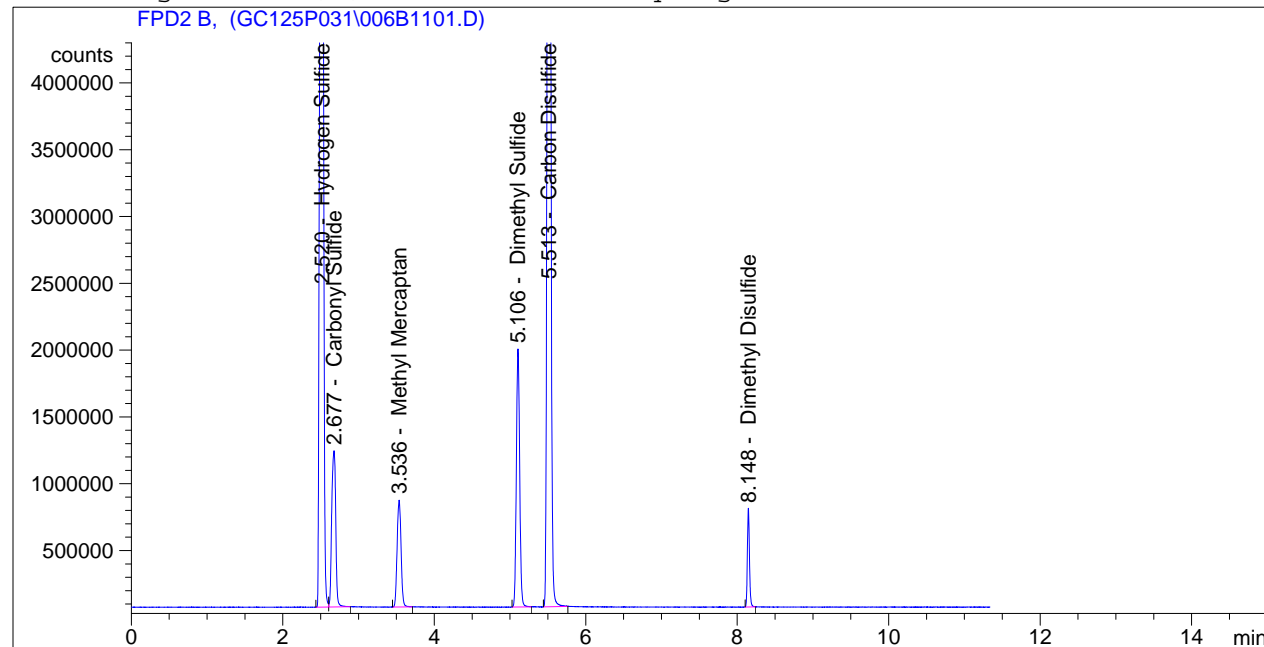
Totals : 25.99621

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   11
Acq. Instrument : Zeppo online              Location  : Vial 6
Injection Date  : 7/27/2011 1:36:10 AM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	2.42169e7	5.99842e-7	14.52632		Hydrogen Sulfide
2.677	VB	4.29169e6	1.42250e-6	6.10495		Carbonyl Sulfide
3.536	BB	2.91662e6	1.75690e-6	5.12421		Methyl Mercaptan
5.106	BB	5.90062e6	1.07861e-6	6.36446		Dimethyl Sulfide
5.513	BB	3.49502e7	2.18591e-7	7.63981		Carbon Disulfide
8.148	BB	1.40742e6	9.61504e-7	1.35324		Dimethyl Disulfide

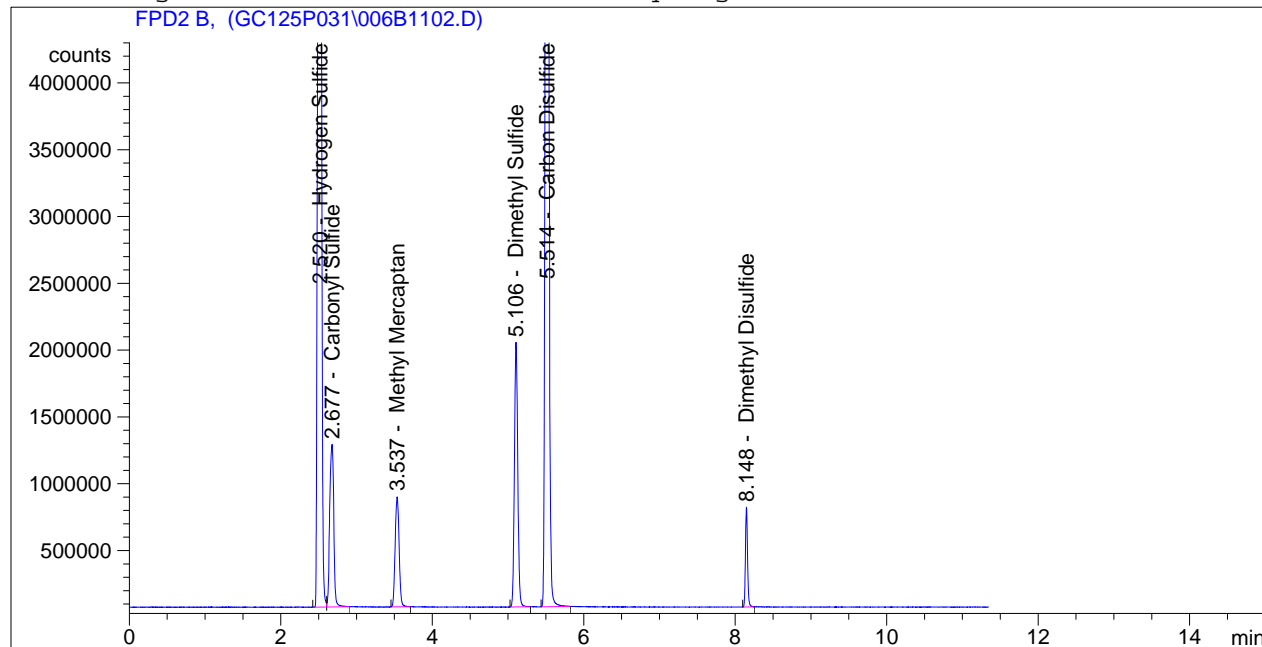
Totals : 41.11298

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   11
Acq. Instrument : Zeppo online             Location  : Vial 6
Injection Date  : 7/27/2011 1:52:01 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	2.50997e7	5.88877e-7	14.78062		Hydrogen Sulfide
2.677	VB	4.51763e6	1.38784e-6	6.26973		Carbonyl Sulfide
3.537	BB	3.01634e6	1.72783e-6	5.21172		Methyl Mercaptan
5.106	BB	6.06223e6	1.06445e-6	6.45293		Dimethyl Sulfide
5.514	BB	3.56650e7	2.16400e-7	7.71790		Carbon Disulfide
8.148	BB	1.44512e6	9.49347e-7	1.37192		Dimethyl Disulfide

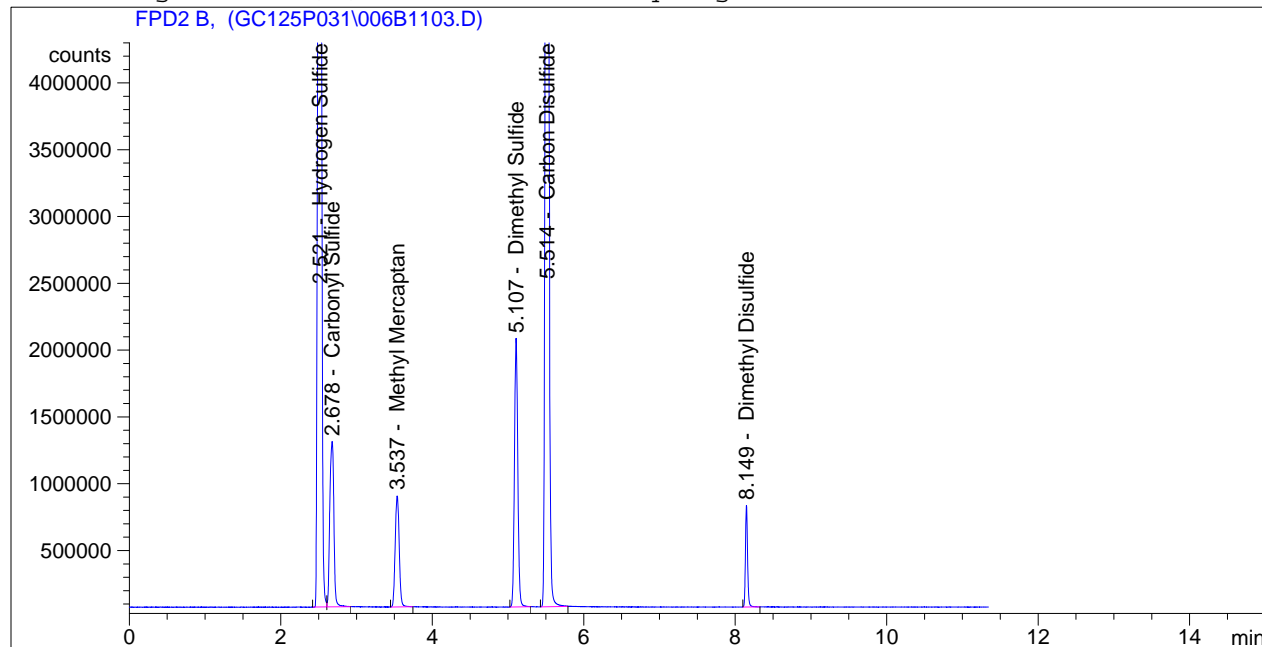
Totals : 41.80482

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   11
Acq. Instrument : Zeppo online              Location  : Vial 6
Injection Date  : 7/27/2011 2:07:57 AM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	2.56023e7	5.82891e-7	14.92335		Hydrogen Sulfide
2.678	VB	4.64918e6	1.36881e-6	6.36384		Carbonyl Sulfide
3.537	BB	3.09011e6	1.70724e-6	5.27554		Methyl Mercaptan
5.107	BB	6.19640e6	1.05311e-6	6.52550		Dimethyl Sulfide
5.514	BB	3.64514e7	2.14064e-7	7.80292		Carbon Disulfide
8.149	BB	1.48630e6	9.36596e-7	1.39207		Dimethyl Disulfide

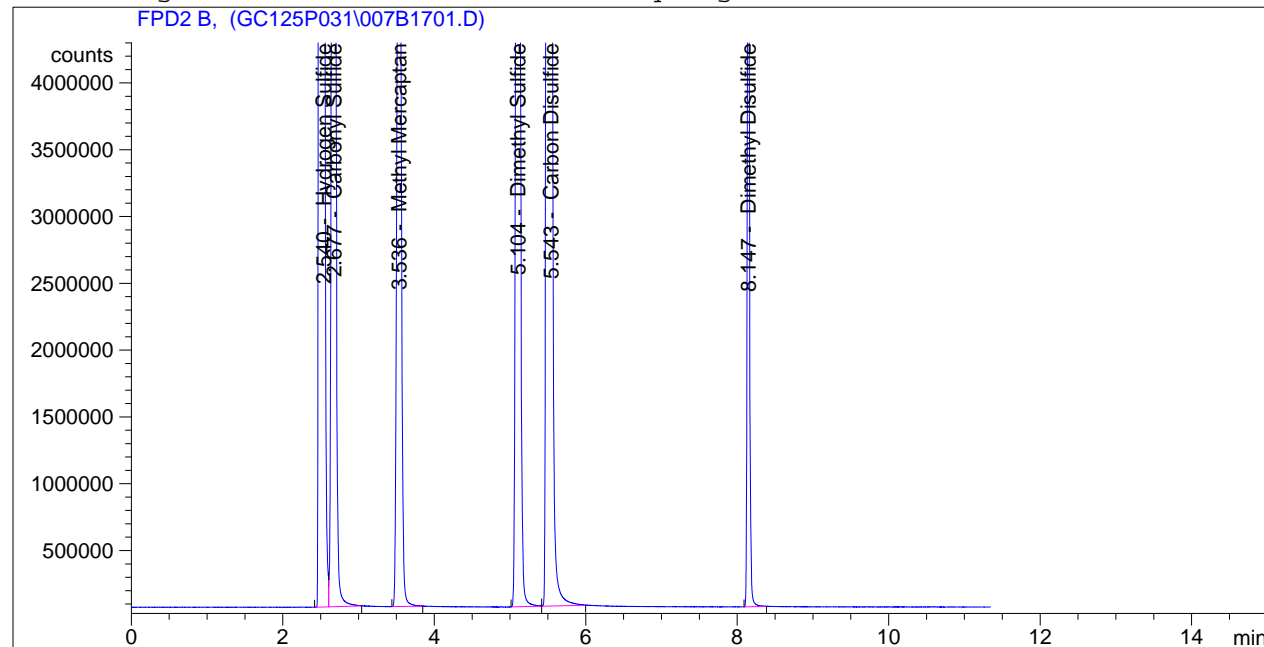
Totals : 42.28322

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :   17
Acq. Instrument : Zeppo online             Location  : Vial 7
Injection Date  : 7/27/2011 9:38:17 AM     Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.540	BV	8.76153e7	3.09222e-7	27.09260		Hydrogen Sulfide
2.677	VB	3.75765e7	5.01077e-7	18.82872		Carbonyl Sulfide
3.536	BB	2.65269e7	5.87400e-7	15.58188		Methyl Mercaptan
5.104	BV	5.12128e7	3.74855e-7	19.19741		Dimethyl Sulfide
5.543	VB	8.87702e7	1.37458e-7	12.20214		Carbon Disulfide
8.147	BB	1.24159e7	3.37203e-7	4.18668		Dimethyl Disulfide

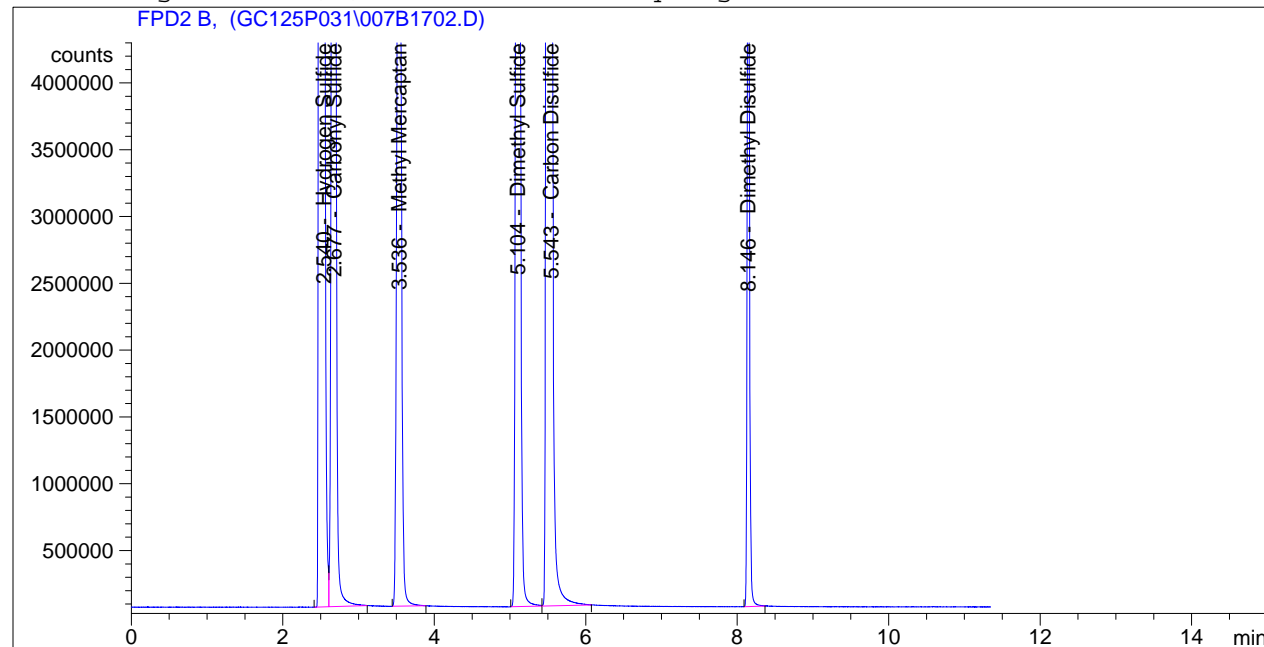
Totals : 97.08943

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   17
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 9:54:17 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.540	BV	8.90020e7	3.06730e-7	27.29960		Hydrogen Sulfide
2.677	VB	4.01057e7	4.85624e-7	19.47629		Carbonyl Sulfide
3.536	BB	2.77575e7	5.74328e-7	15.94192		Methyl Mercaptan
5.104	BV	5.28561e7	3.69110e-7	19.50970		Dimethyl Sulfide
5.543	VB	9.00573e7	1.36476e-7	12.29070		Carbon Disulfide
8.146	BB	1.27869e7	3.32458e-7	4.25112		Dimethyl Disulfide

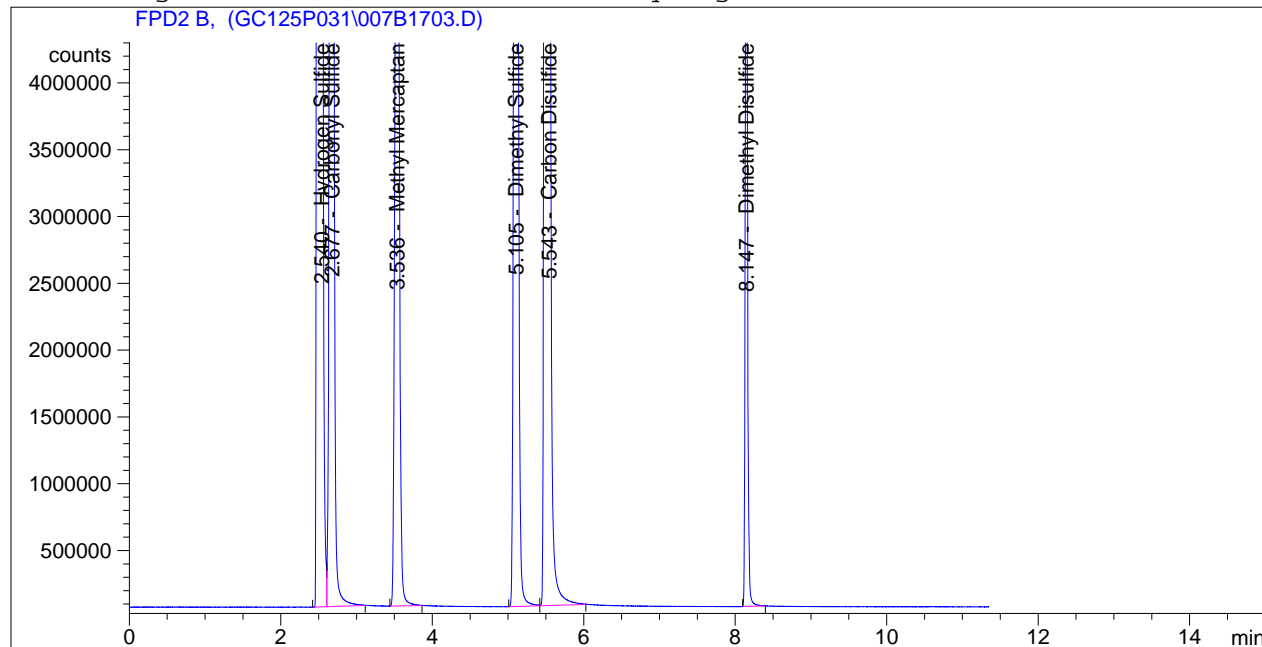
Totals : 98.76932

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   17
Acq. Instrument : Zeppo online              Location  : Vial 7
Injection Date  : 7/27/2011 10:10:12 AM     Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P031.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.540	BV	8.91806e7	3.06413e-7	27.32615		Hydrogen Sulfide
2.677	VB	4.05682e7	4.82953e-7	19.59255		Carbonyl Sulfide
3.536	BB	2.80579e7	5.71268e-7	16.02861		Methyl Mercaptan
5.105	BV	5.32429e7	3.67796e-7	19.58251		Dimethyl Sulfide
5.543	VB	9.03542e7	1.36253e-7	12.31104		Carbon Disulfide
8.147	BB	1.28886e7	3.31193e-7	4.26863		Dimethyl Disulfide

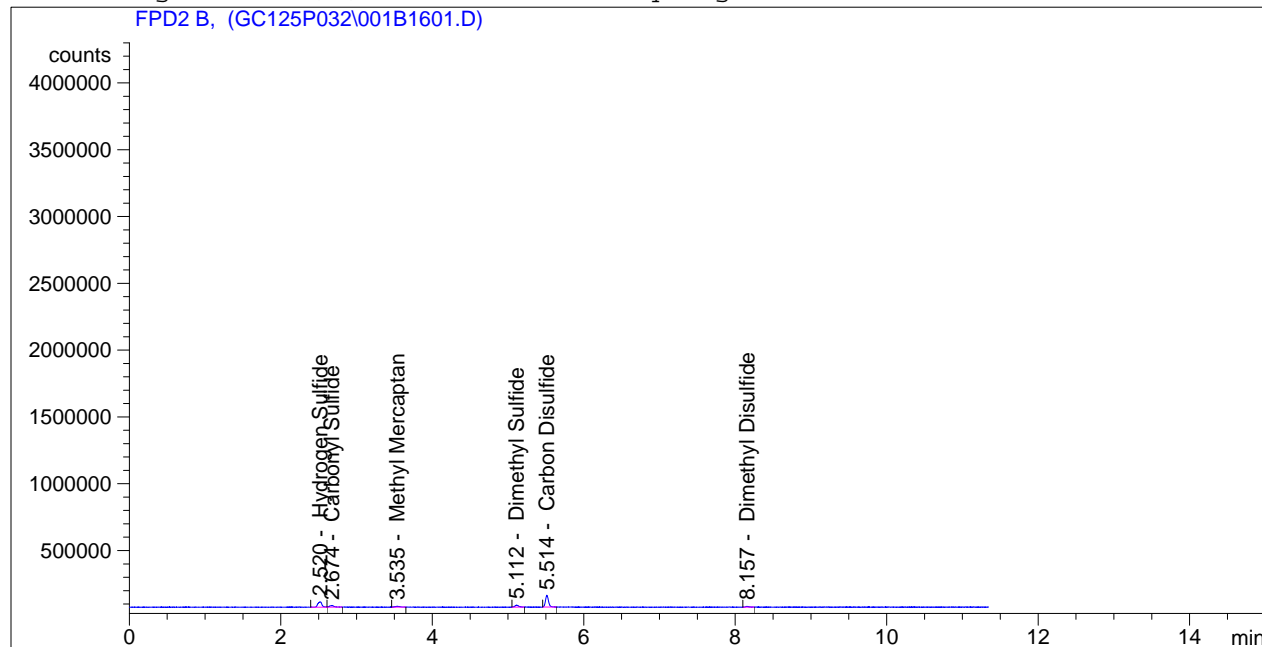
Totals : 99.10948

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   16
Acq. Instrument : Zeppo online              Location  : Vial 1
Injection Date  : 7/28/2011 2:02:52 AM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	1.46287e5	8.34463e-6	1.22071		Hydrogen Sulfide
2.674	VB	4.64852e4	1.25366e-5	5.82765e-1		Carbonyl Sulfide
3.535	BB	2.61641e4	1.82250e-5	4.76842e-1		Methyl Mercaptan
5.112	BB	4.88909e4	1.12456e-5	5.49808e-1		Dimethyl Sulfide
5.514	BB	2.45879e5	2.57615e-6	6.33420e-1		Carbon Disulfide
8.157	BB	1.40912e4	8.81499e-6	1.24214e-1		Dimethyl Disulfide

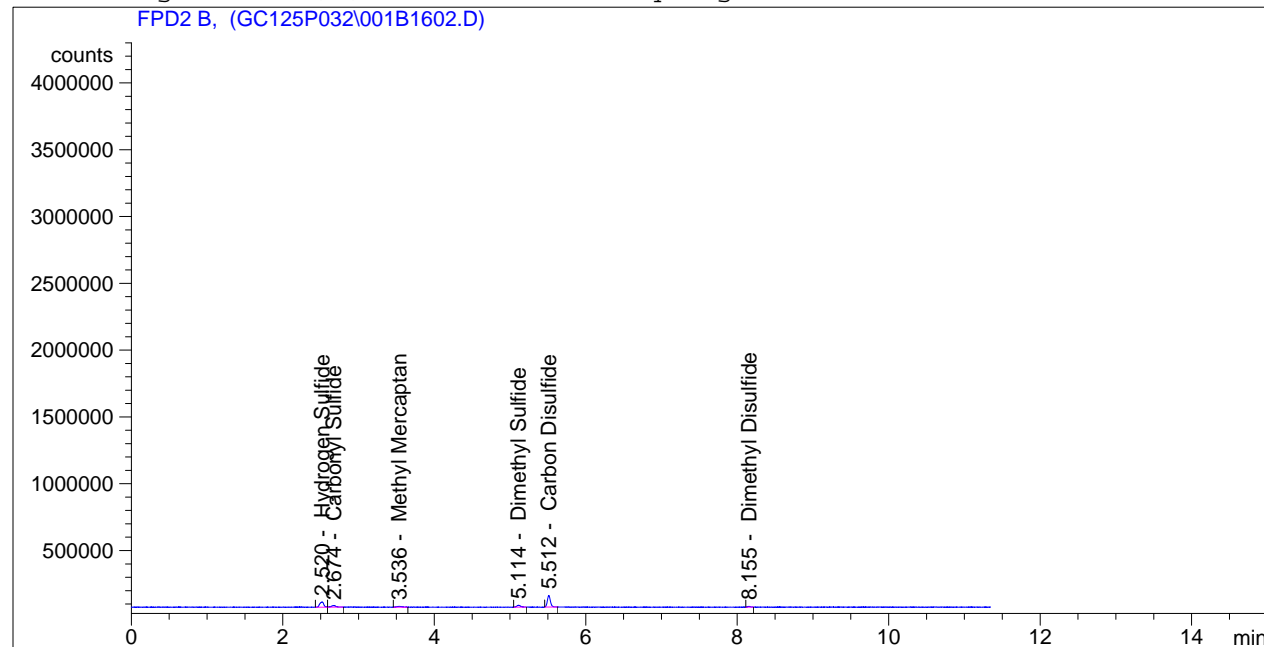
Totals : 3.58776

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   16
Acq. Instrument : Zeppo online              Location  : Vial 1
Injection Date  : 7/28/2011 2:18:48 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	1.43040e5	8.44172e-6	1.20750		Hydrogen Sulfide
2.674	VB	4.83411e4	1.23027e-5	5.94728e-1		Carbonyl Sulfide
3.536	BB	2.60212e4	1.82746e-5	4.75528e-1		Methyl Mercaptan
5.114	BB	4.75571e4	1.13988e-5	5.42093e-1		Dimethyl Sulfide
5.512	BB	2.44119e5	2.58537e-6	6.31138e-1		Carbon Disulfide
8.155	BB	1.35324e4	8.98833e-6	1.21634e-1		Dimethyl Disulfide

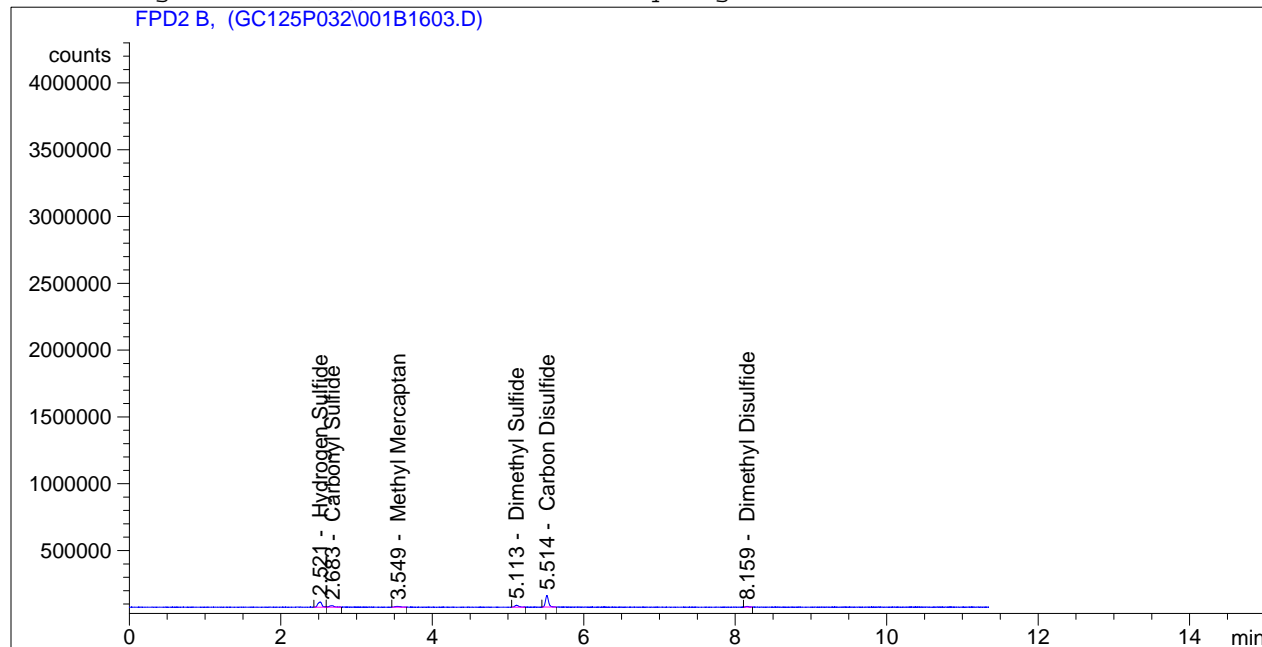
Totals : 3.57262

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   16
Acq. Instrument : Zeppo online              Location  : Vial 1
Injection Date  : 7/28/2011 2:34:44 AM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	1.41492e5	8.48917e-6	1.20115		Hydrogen Sulfide
2.683	VB	4.95952e4	1.21521e-5	6.02688e-1		Carbonyl Sulfide
3.549	BB	2.42391e4	1.89295e-5	4.58833e-1		Methyl Mercaptan
5.113	BB	4.93459e4	1.11948e-5	5.52416e-1		Dimethyl Sulfide
5.514	BB	2.41071e5	2.60159e-6	6.27168e-1		Carbon Disulfide
8.159	BB	1.25573e4	9.31771e-6	1.17006e-1		Dimethyl Disulfide

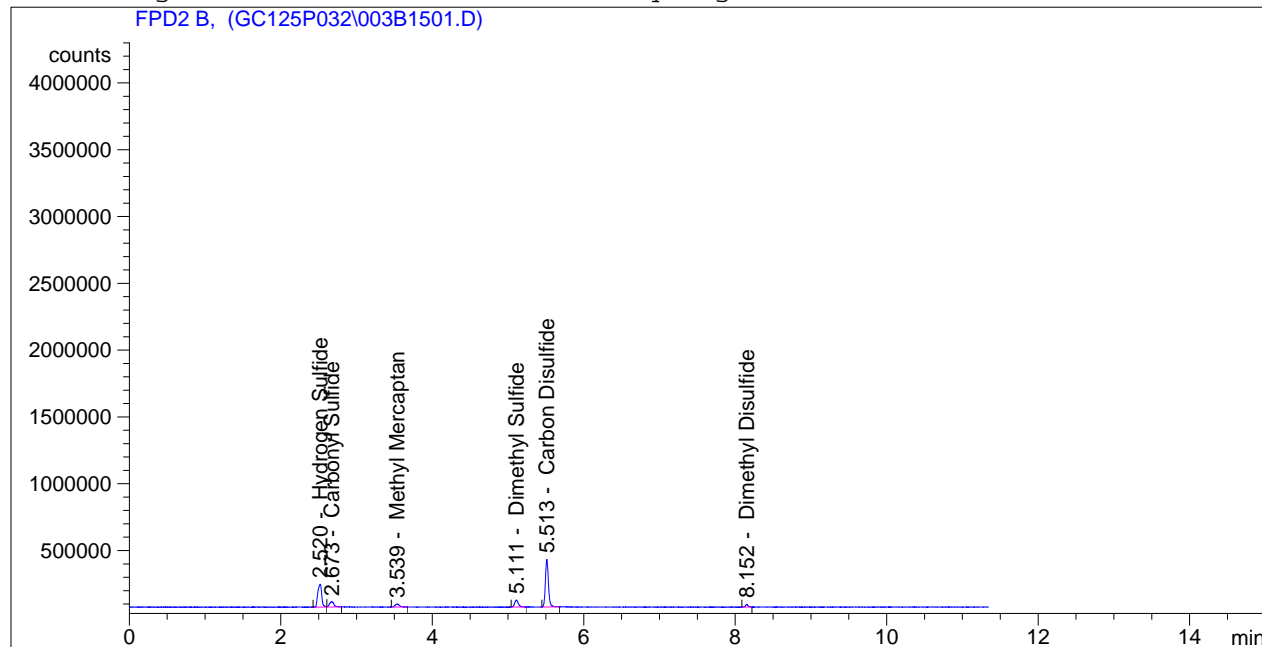
Totals : 3.55926

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   15
Acq. Instrument : Zeppo online              Location  : Vial 3
Injection Date  : 7/28/2011 1:15:06 AM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	6.11920e5	3.99176e-6	2.44264		Hydrogen Sulfide
2.673	VB	1.64464e5	6.82778e-6	1.12293		Carbonyl Sulfide
3.539	BB	9.13376e4	9.80008e-6	8.95115e-1		Methyl Mercaptan
5.111	BB	1.79102e5	5.95935e-6	1.06733		Dimethyl Sulfide
5.513	BB	9.90953e5	1.28741e-6	1.27577		Carbon Disulfide
8.152	BB	4.42427e4	5.08260e-6	2.24868e-1		Dimethyl Disulfide

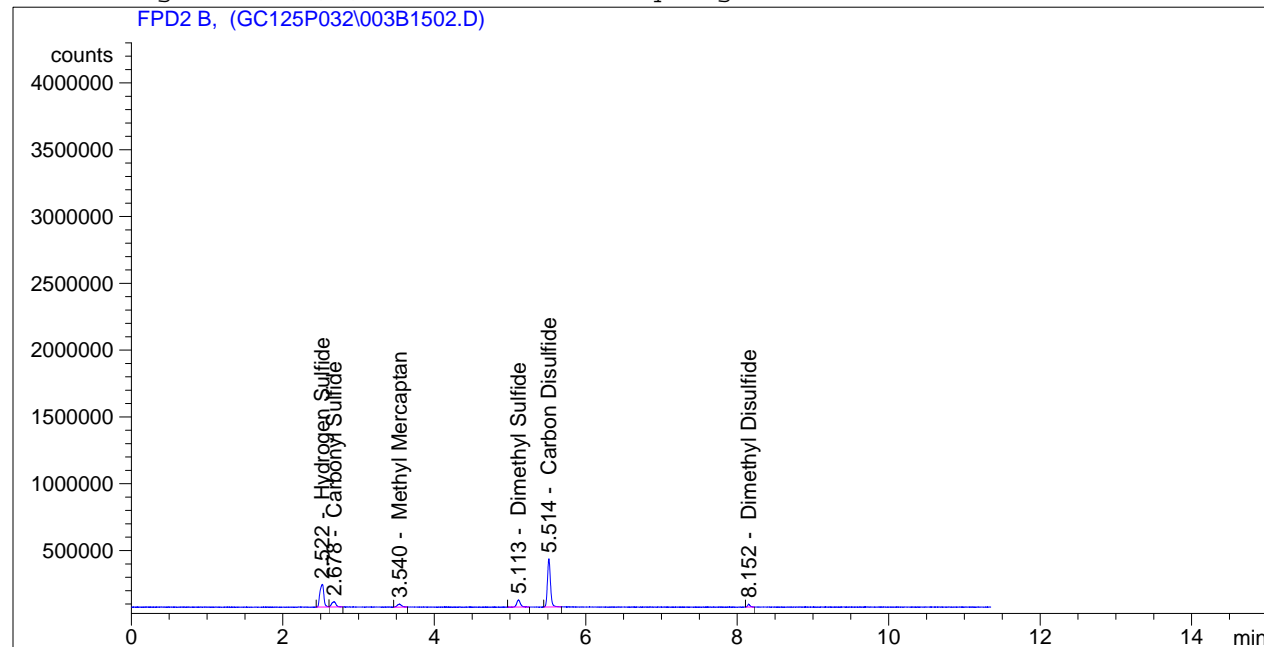
Totals : 7.02865

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   15
Acq. Instrument : Zeppo online              Location  : Vial 3
Injection Date  : 7/28/2011 1:31:01 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.522	BV	6.09739e5	3.99911e-6	2.43841		Hydrogen Sulfide
2.678	VB	1.59545e5	6.92822e-6	1.10536		Carbonyl Sulfide
3.540	BB	8.72065e4	1.00278e-5	8.74487e-1		Methyl Mercaptan
5.113	BB	1.82709e5	5.90152e-6	1.07826		Dimethyl Sulfide
5.514	BB	1.00134e6	1.28075e-6	1.28247		Carbon Disulfide
8.152	BB	4.53405e4	5.02300e-6	2.27745e-1		Dimethyl Disulfide

Totals : 7.00674

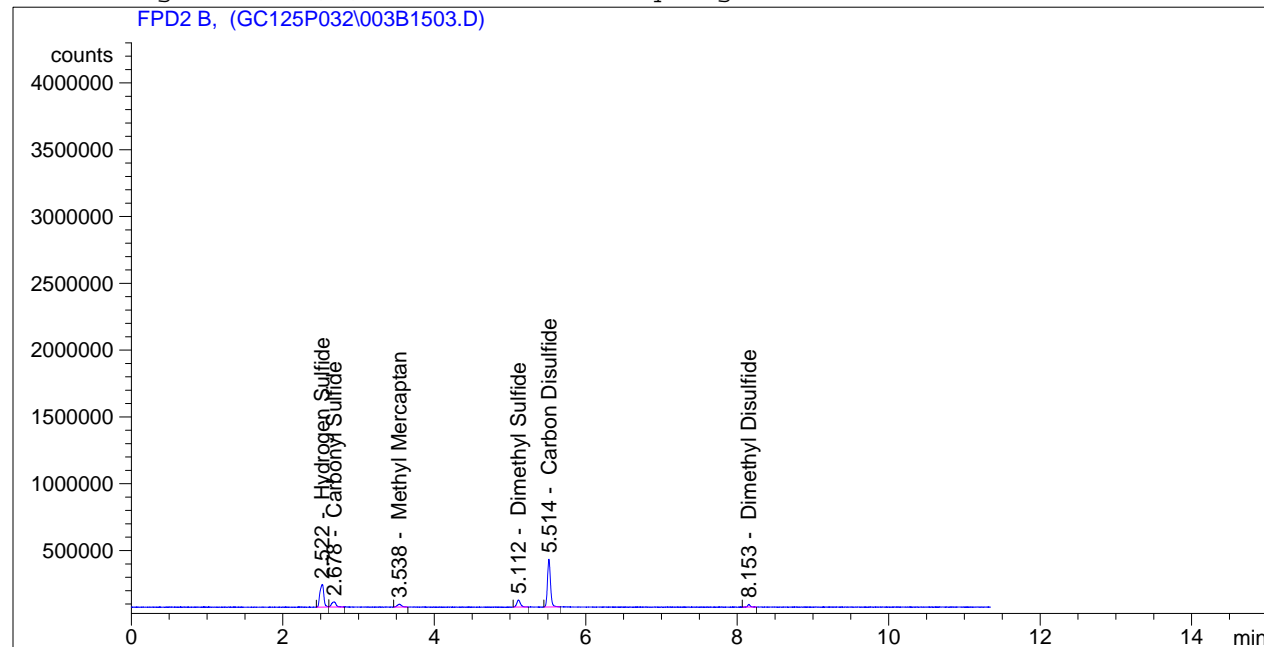
Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : stg                      Seq. Line :   15
Acq. Instrument : Zeppo online             Location  : Vial 3
Injection Date  : 7/28/2011 1:46:57 AM     Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.522	BV	6.05062e5	4.01500e-6	2.42933		Hydrogen Sulfide
2.678	VB	1.59728e5	6.92440e-6	1.10602		Carbonyl Sulfide
3.538	BB	8.24250e4	1.03124e-5	8.49996e-1		Methyl Mercaptan
5.112	BB	1.76823e5	5.99680e-6	1.06037		Dimethyl Sulfide
5.514	BB	9.90428e5	1.28775e-6	1.27543		Carbon Disulfide
8.153	BB	4.58221e4	4.99752e-6	2.28997e-1		Dimethyl Disulfide

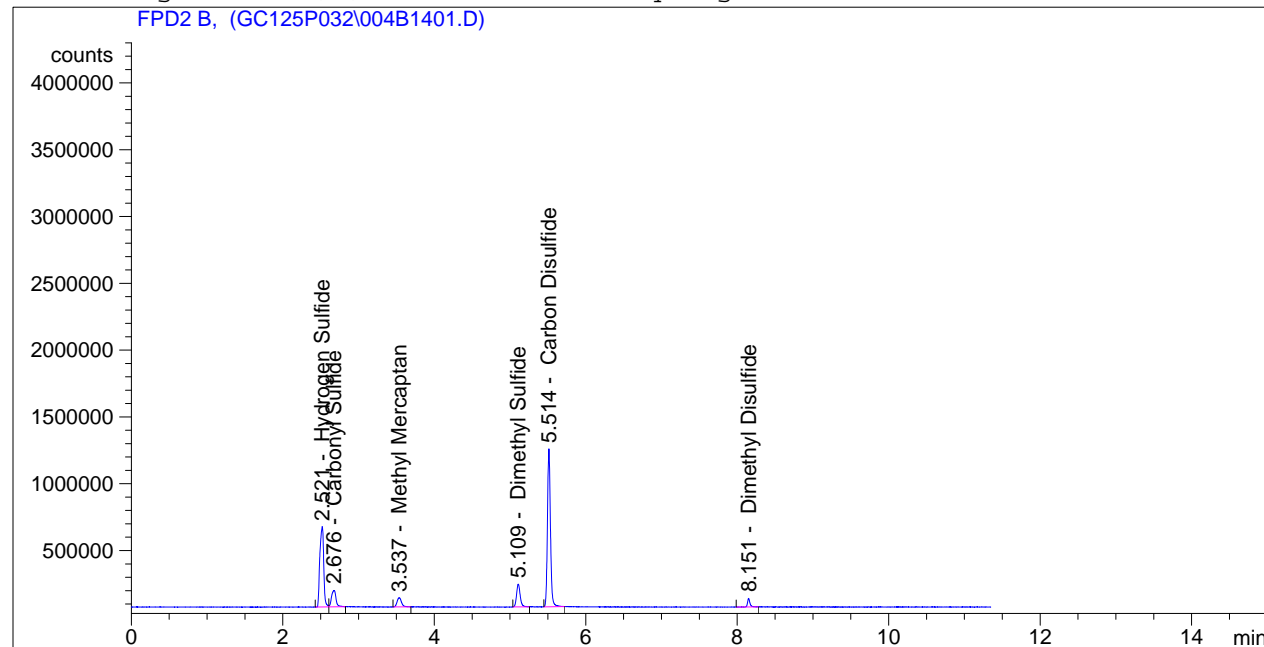
Totals : 6.95014

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   14
Acq. Instrument : Zeppo online              Location  : Vial 4
Injection Date  : 7/28/2011 12:27:19 AM     Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	2.11746e6	2.10554e-6	4.45840		Hydrogen Sulfide
2.676	VB	5.02428e5	3.99062e-6	2.00500		Carbonyl Sulfide
3.537	BB	2.78239e5	5.63841e-6	1.56883		Methyl Mercaptan
5.109	BB	5.64900e5	3.39788e-6	1.91946		Dimethyl Sulfide
5.514	BB	3.27388e6	7.10273e-7	2.32535		Carbon Disulfide
8.151	BB	1.42858e5	2.89131e-6	4.13045e-1		Dimethyl Disulfide

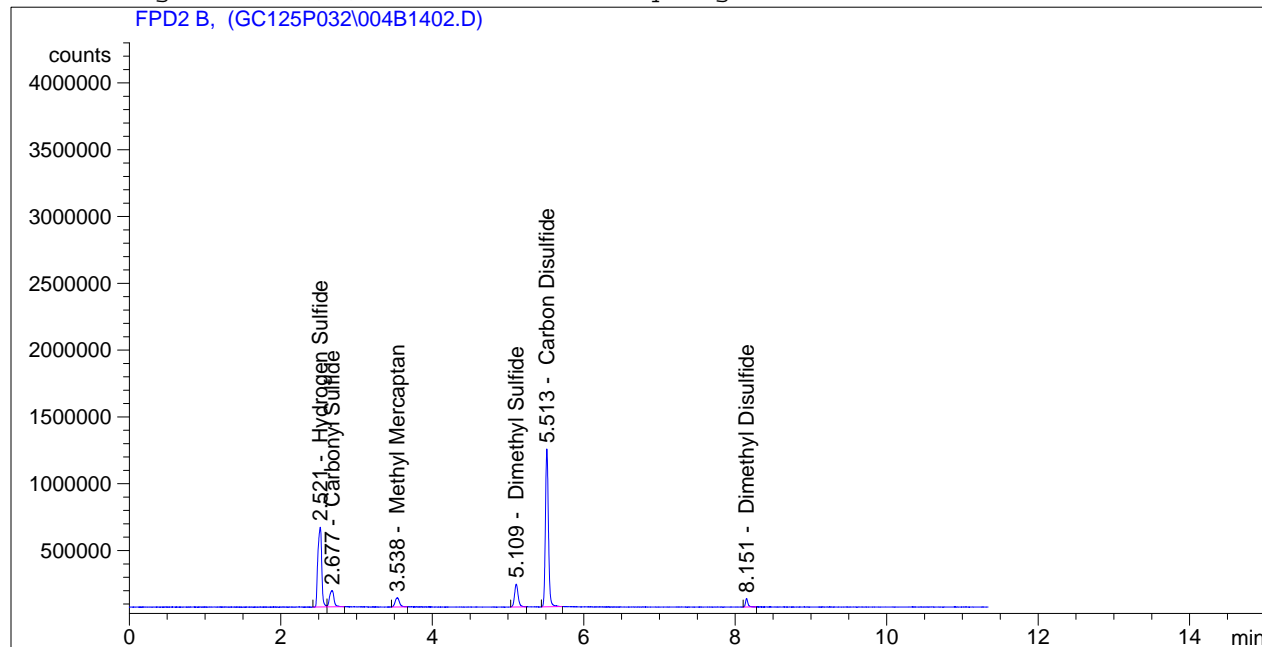
Totals : 12.69008

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   14
Acq. Instrument : Zeppo online              Location  : Vial 4
Injection Date  : 7/28/2011 12:43:15 AM     Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	2.11241e6	2.10813e-6	4.45324		Hydrogen Sulfide
2.677	VB	4.96879e5	4.01199e-6	1.99348		Carbonyl Sulfide
3.538	BB	2.74221e5	5.67926e-6	1.55737		Methyl Mercaptan
5.109	BB	5.64941e5	3.39776e-6	1.91953		Dimethyl Sulfide
5.513	BB	3.28223e6	7.09372e-7	2.32833		Carbon Disulfide
8.151	BB	1.40394e5	2.91562e-6	4.09334e-1		Dimethyl Disulfide

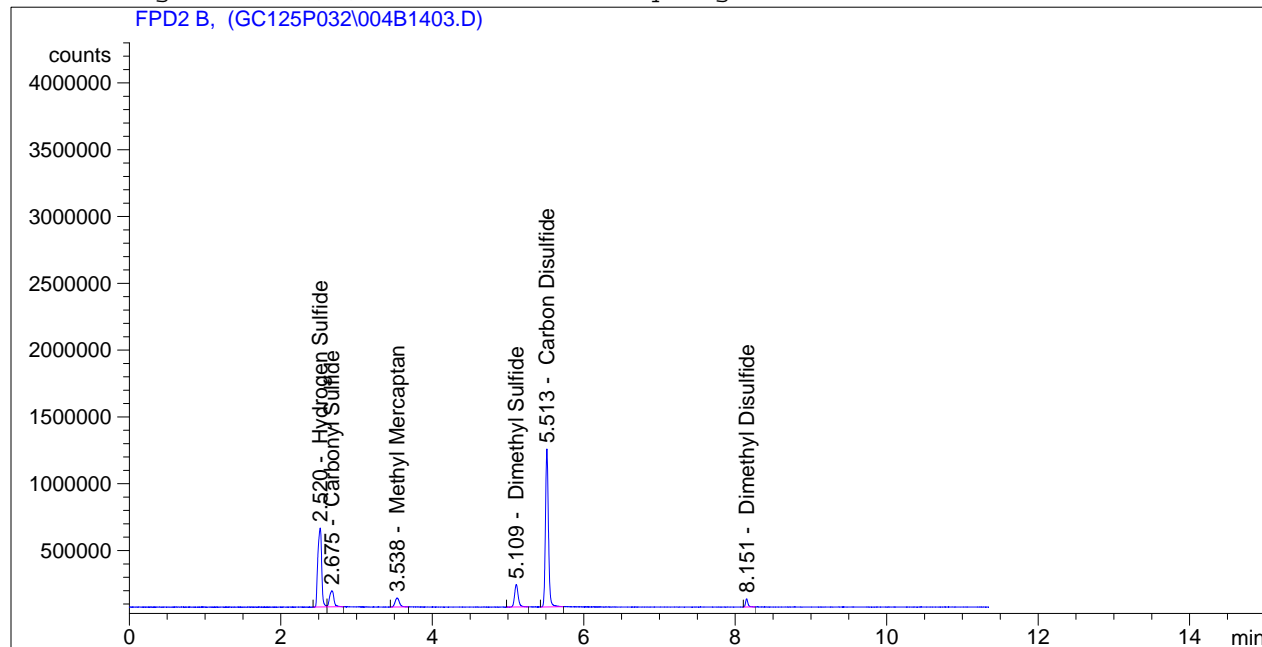
Totals : 12.66128

Uncalibrated Peaks : using compound Methyl Mercaptan

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : stg                      Seq. Line :   14
Acq. Instrument : Zeppo online             Location  : Vial 4
Injection Date  : 7/28/2011 12:59:11 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	2.07323e6	2.12857e-6	4.41301		Hydrogen Sulfide
2.675	VB	4.81097e5	4.07475e-6	1.96035		Carbonyl Sulfide
3.538	BB	2.66492e5	5.76041e-6	1.53510		Methyl Mercaptan
5.109	BB	5.58540e5	3.41675e-6	1.90839		Dimethyl Sulfide
5.513	BB	3.24461e6	7.13454e-7	2.31488		Carbon Disulfide
8.151	BB	1.34093e5	2.98076e-6	3.99699e-1		Dimethyl Disulfide

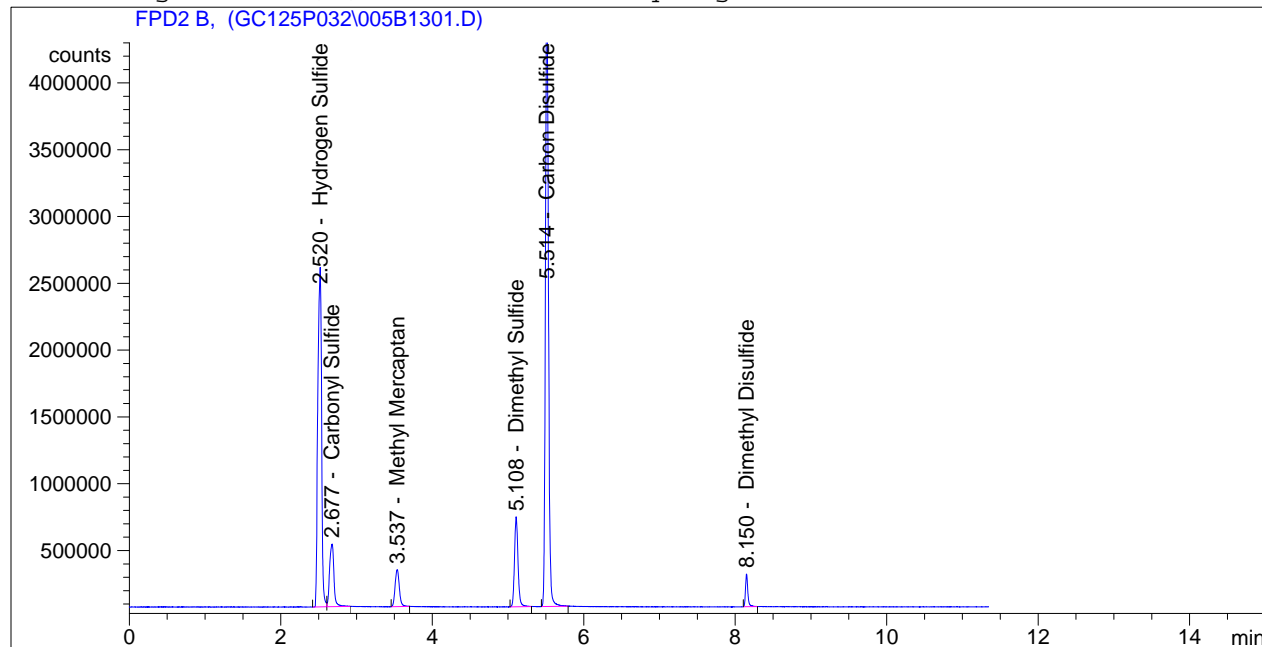
Totals : 12.53144

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   13
Acq. Instrument : Zeppo online              Location  : Vial 5
Injection Date  : 7/27/2011 11:39:32 PM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      7/29/2011 11:54:30 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

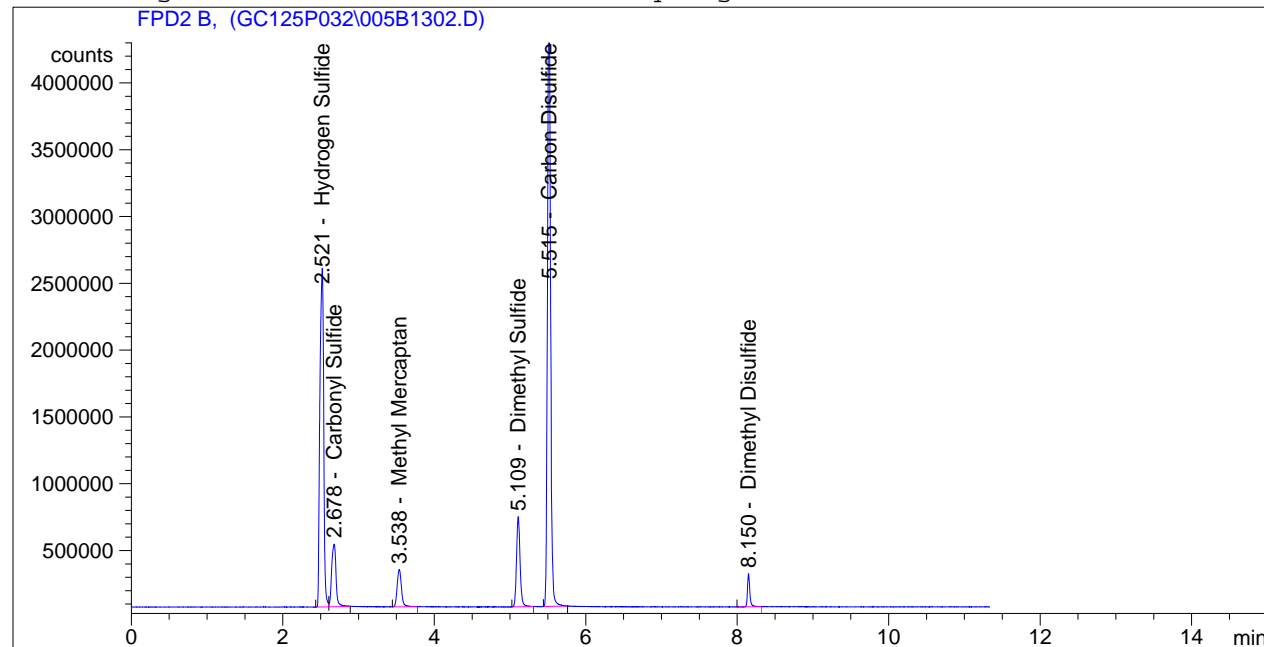
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	8.79314e6	1.01099e-6	8.88982		Hydrogen Sulfide
2.677	VB	1.87238e6	2.11978e-6	3.96903		Carbonyl Sulfide
3.537	BB	1.07744e6	2.87986e-6	3.10287		Methyl Mercaptan
5.108	BB	2.18687e6	1.75266e-6	3.83284		Dimethyl Sulfide
5.514	BB	1.28457e7	3.59719e-7	4.62085		Carbon Disulfide
8.150	BB	5.24747e5	1.54582e-6	8.11163e-1		Dimethyl Disulfide

Totals : 25.22657

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   13
Acq. Instrument : Zeppo online             Location  : Vial 5
Injection Date  : 7/27/2011 11:55:28 PM    Inj       :    2
                                           Inj Volume: External
Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	8.85959e6	1.00708e-6	8.92232		Hydrogen Sulfide
2.678	VB	1.87651e6	2.11754e-6	3.97358		Carbonyl Sulfide
3.538	BB	1.10047e6	2.84978e-6	3.13611		Methyl Mercaptan
5.109	BB	2.20543e6	1.74543e-6	3.84942		Dimethyl Sulfide
5.515	BB	1.30221e7	3.57286e-7	4.65261		Carbon Disulfide
8.150	BB	5.27061e5	1.54255e-6	8.13017e-1		Dimethyl Disulfide

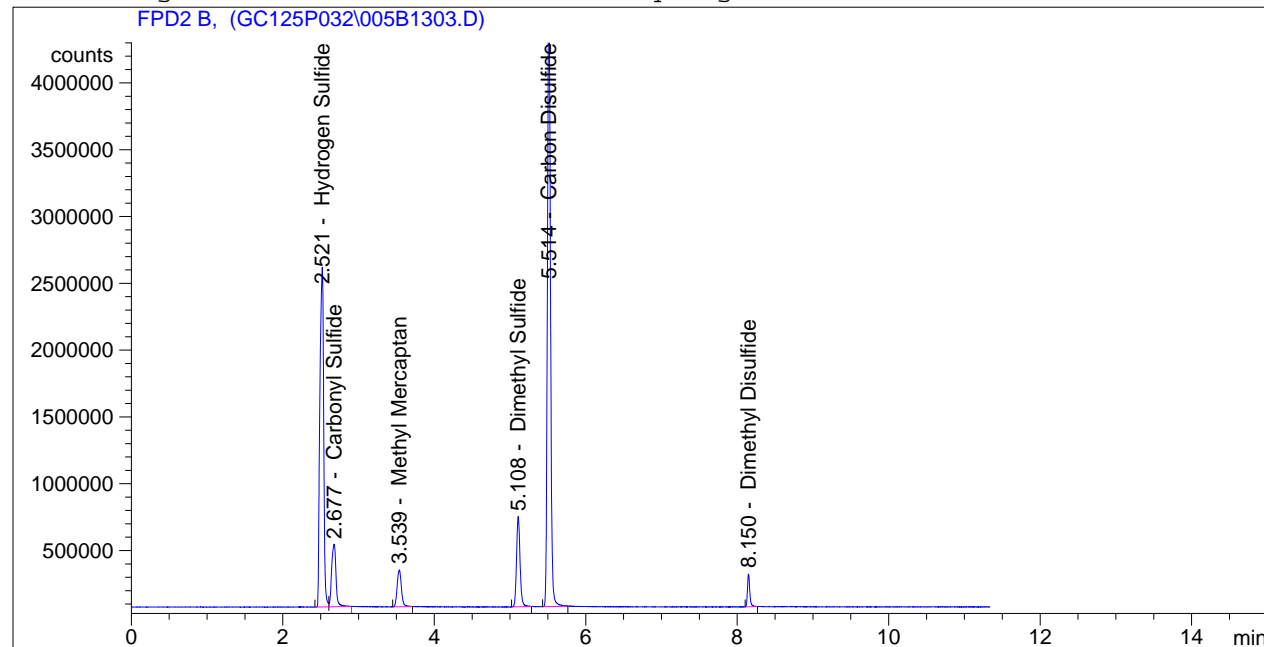
Totals : 25.34706

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   13
Acq. Instrument : Zeppo online             Location  : Vial 5
Injection Date  : 7/28/2011 12:11:23 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	8.82963e6	1.00884e-6	8.90768		Hydrogen Sulfide
2.677	VB	1.86223e6	2.12533e-6	3.95786		Carbonyl Sulfide
3.539	BB	1.07830e6	2.87872e-6	3.10411		Methyl Mercaptan
5.108	BB	2.19488e6	1.74953e-6	3.84000		Dimethyl Sulfide
5.514	BB	1.30073e7	3.57489e-7	4.64995		Carbon Disulfide
8.150	BB	5.20670e5	1.55163e-6	8.07888e-1		Dimethyl Disulfide

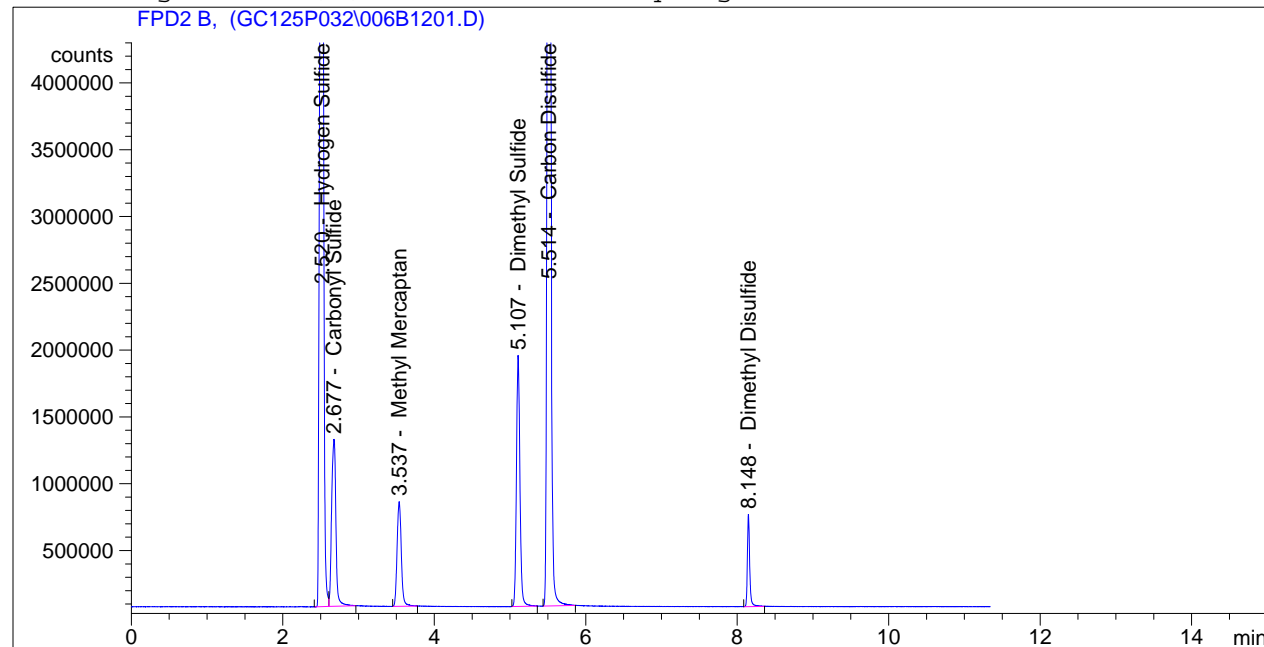
Totals : 25.26749

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   12
Acq. Instrument : Zeppo online              Location  : Vial 6
Injection Date  : 7/27/2011 10:51:48 PM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPP0\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPP0\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method : G:\GC2011Q3\ZEPP0\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	2.42432e7	5.99507e-7	14.53395		Hydrogen Sulfide
2.677	VB	4.91933e6	1.33213e-6	6.55319		Carbonyl Sulfide
3.537	BB	3.03978e6	1.72120e-6	5.23209		Methyl Mercaptan
5.107	BB	6.03828e6	1.06651e-6	6.43989		Dimethyl Sulfide
5.514	BB	3.44846e7	2.20055e-7	7.58850		Carbon Disulfide
8.148	VB	1.46674e6	9.42588e-7	1.38253		Dimethyl Disulfide

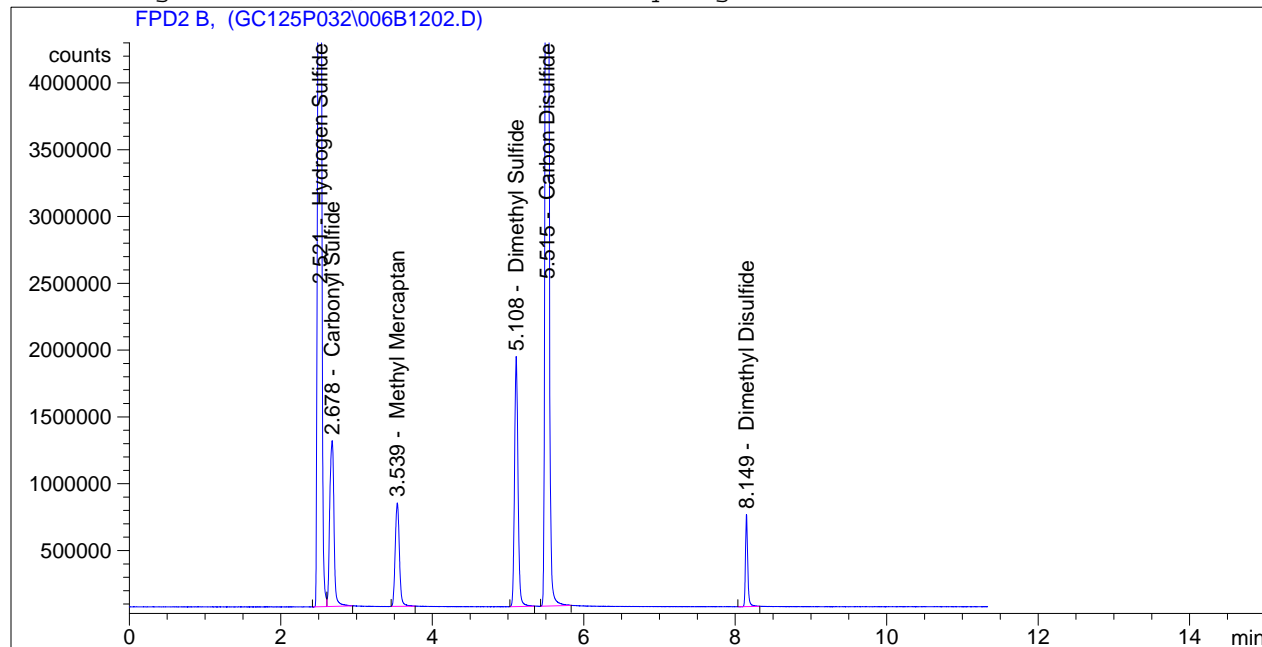
Totals : 41.73014

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :   12
Acq. Instrument : Zeppo online             Location  : Vial 6
Injection Date  : 7/27/2011 11:07:44 PM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.521	BV	2.41429e7	6.00789e-7	14.50477		Hydrogen Sulfide
2.678	VB	4.87100e6	1.33847e-6	6.51969		Carbonyl Sulfide
3.539	BB	2.98821e6	1.73588e-6	5.18719		Methyl Mercaptan
5.108	BB	6.01234e6	1.06876e-6	6.42574		Dimethyl Sulfide
5.515	BB	3.46607e7	2.19498e-7	7.60795		Carbon Disulfide
8.149	BB	1.43395e6	9.52900e-7	1.36641		Dimethyl Disulfide

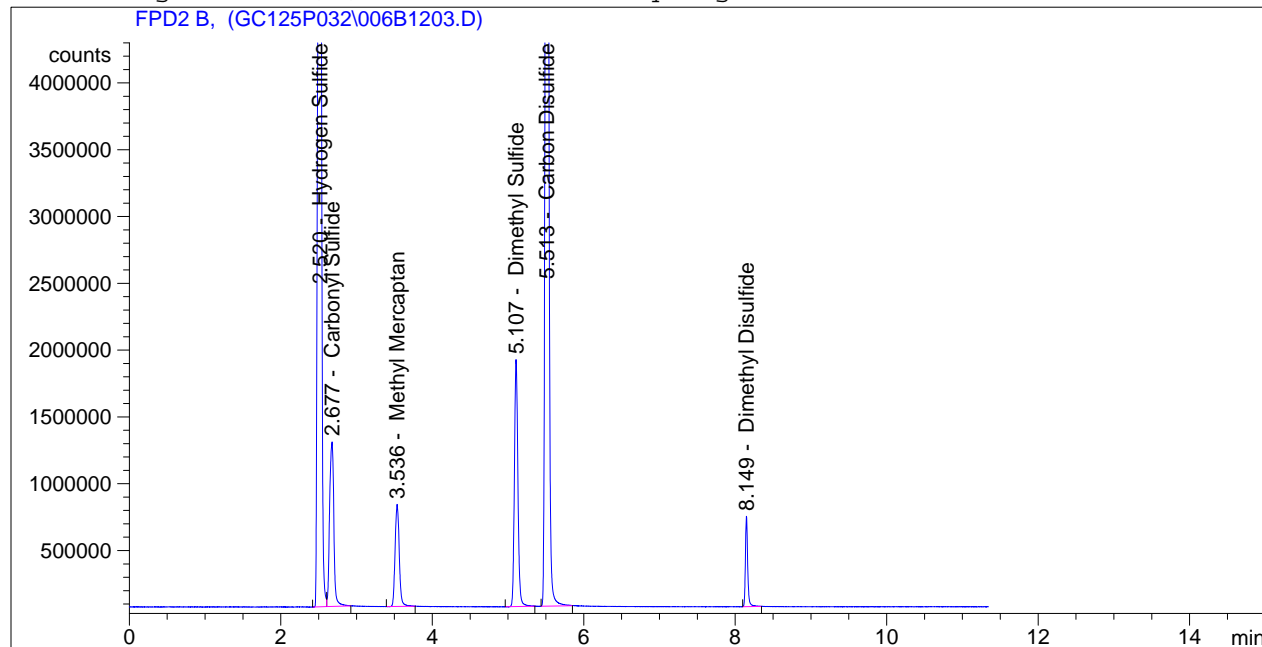
Totals : 41.61175

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :   12
Acq. Instrument : Zeppo online              Location  : Vial 6
Injection Date  : 7/27/2011 11:23:36 PM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\ZEPPO\SEQUENCE\GC124P032.S
Acq. Method     : G:\GC2011Q3\ZEPPO\METHODS\FPDTEST2.M
Last changed    : 7/8/2011 9:09:17 AM by kmt
Analysis Method  : G:\GC2011Q3\ZEPPO\METHODS\GC125P031_POST.M
Last changed    : 8/1/2011 12:32:11 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 7/29/2011 11:54:30 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ppmv]	Grp	Name
2.520	BV	2.39452e7	6.03340e-7	14.44709		Hydrogen Sulfide
2.677	VB	4.80990e6	1.34662e-6	6.47711		Carbonyl Sulfide
3.536	BB	2.94886e6	1.74734e-6	5.15266		Methyl Mercaptan
5.107	BB	5.94397e6	1.07475e-6	6.38830		Dimethyl Sulfide
5.513	BB	3.44066e7	2.20303e-7	7.57988		Carbon Disulfide
8.149	BB	1.42028e6	9.57303e-7	1.35964		Dimethyl Disulfide

Totals : 41.40467

Uncalibrated Peaks : using compound Methyl Mercaptan

*** End of Report ***

Sequence: G:\gc2011q3\Zeppo\sequence\gc125p031.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 7	TGTU-2 M15 Bag 2 baseline 0711-102	FPDTEST2	3	Sample
2	Vial 15	BPV-A3-M18-Bag 0711-08	FPDTEST2	3	Sample
3	Vial 8	Vessel 1686 0711-93	FPDTEST2	3	Sample
4	Vial 6	Vessel 1687 0711-93	FPDTEST2	3	Sample
5	Vial 4	Vessel 1679 0711-93	FPDTEST2	3	Sample
6	Vial 10	Vessel 1680 0711-97	FPDTEST2	3	Sample
7	Vial 12	Vessel 1684 0711-97	FPDTEST2	3	Sample
8	Vial 16	Vessel 1683 0711-97	FPDTEST2	3	Sample
9	Vial 14	FS Vessel 1694 0711-93	FPDTEST2	3	Sample
10	Vial 1	Blank	FPDTEST2	3	Sample
11	Vial 2	gc125p013 #6	FPDTEST2	3	Sample
12	Vial 2	gc125p013 #5	FPDTEST2	3	Sample
13	Vial 2	gc125p013 #4	FPDTEST2	3	Sample
14	Vial 2	gc125p013 #3	FPDTEST2	3	Sample
15	Vial 2	gc125p013 #1	FPDTEST2	3	Sample
16	Vial 1	Pause	PAUSE	1	Sample
17	Vial 2	gc125p013 #7	FPDTEST2	3	Sample

Sequence: G:\gc2011q3\Zeppo\sequence\gc125p031.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 6	TGTU-2 M15 Bag 2 baseline 0711-102	25P029_POST	3	Sample
2	Vial 7	BPV-A3-M18-Bag 0711-08	25P029_POST	3	Sample
3	Vial 7	Vessel 1686 0711-93	25P029_POST	3	Sample
4	Vial 7	Vessel 1687 0711-93	25P029_POST	3	Sample
5	Vial 7	Vessel 1679 0711-93	25P029_POST	3	Sample
6	Vial 7	Vessel 1680 0711-97	25P029_POST	3	Sample
7	Vial 7	Vessel 1684 0711-97	25P029_POST	3	Sample
8	Vial 7	Vessel 1683 0711-97	25P029_POST	3	Sample
9	Vial 7	FS Vessel 1694 0711-93	25P029_POST	3	Sample
10	Vial 7	Blank	25P028_POST	3	Sample
11	Vial 6	gc125p013 #6	25P029_POST	3	Sample
12	Vial 5	gc125p013 #5	25P029_POST	3	Sample
13	Vial 4	gc125p013 #4	25P029_POST	3	Sample
14	Vial 3	gc125p013 #3	25P029_POST	3	Sample
15	Vial 1	gc125p013 #1	25P029_POST	3	Sample
16	Vial 7	Pause	PAUSE	1	Sample
17	Vial 7	gc125p013 #7	25P029_POST	3	Sample

Sequence: G:\gc2011q3\Zeppo\sequence\gc125p032.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 15	BPV-A4-M18-Bag 0711-08	FPDTEST2	3	Sample
2	Vial 1	Blank	FPDTEST2	3	Sample
3	Vial 1	Pause	PAUSE	1	Sample
4	Vial 7	EM-R3-Bag-CDU *6 0711-64	FPDTEST2	3	Sample
5	Vial 1	Pause	PAUSE	1	Sample
6	Vial 15	FHR_FCC_ICR Run1 0711-81	FPDTEST2	3	Sample
7	Vial 15	FHR_FCC_ICR Run2 0711-81	FPDTEST2	3	Sample
8	Vial 7	FHR_FCC_ICR Run3 0711-81	FPDTEST2	3	Sample
9	Vial 3	EM-R2-Bag-CDU *6 0711-64	FPDTEST2	3	Sample
10	Vial 1	Pause	PAUSE	1	Sample
11	Vial 2	gc125p013 #7	FPDTEST2	3	Sample
12	Vial 2	gc125p013 #6	FPDTEST2	3	Sample
13	Vial 2	gc125p013 #5	FPDTEST2	3	Sample
14	Vial 2	gc125p013 #4	FPDTEST2	3	Sample
15	Vial 2	gc125p013 #3	FPDTEST2	3	Sample
16	Vial 2	gc125p013 #1	FPDTEST2	3	Sample
17	Vial 1	Pause	PAUSE	1	Sample
18	Vial 2	gc125p013 #7	FPDTEST2	3	Sample
19	Vial 2	gc125p013 #6	FPDTEST2	3	Sample
20	Vial 2	gc125p013 #5	FPDTEST2	3	Sample
21	Vial 2	gc125p013 #4	FPDTEST2	3	Sample
22	Vial 2	gc125p013 #3	FPDTEST2	3	Sample
23	Vial 2	gc125p013 #1	FPDTEST2	3	Sample
24	Vial 1	Pause	PAUSE	1	Sample

Sequence: G:\gc2011q3\Zeppo\sequence\gc125p032.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 7	BPV-A3-M18-Bag 0711-08	:5P029_POST	3	Sample
2	Vial 7	Blank	:5P028_POST	3	Sample
3	Vial 7	Pause	PAUSE	1	Sample
4	Vial 6	EM-R3-Bag-CDU *6 0711-64	:5P028_POST	3	Sample
5	Vial 7	Pause	PAUSE	1	Sample
6	Vial 7	FHR_FCC_ICR Run1 0711-81	:5P029_POST	3	Sample
7	Vial 7	FHR_FCC_ICR Run2 0711-81	:5P029_POST	3	Sample
8	Vial 6	FHR_FCC_ICR Run3 0711-81	:5P029_POST	3	Sample
9	Vial 7	EM-R3-Bag-CDU *6 0711-64	:5P028_POST	3	Sample
10	Vial 7	Pause	PAUSE	1	Sample
11	Vial 7	gc125p013 #7	:5P029_POST	3	Sample
12	Vial 6	gc125p013 #6	:5P029_POST	3	Sample
13	Vial 5	gc125p013 #5	:5P029_POST	3	Sample
14	Vial 4	gc125p013 #4	:5P029_POST	3	Sample
15	Vial 3	gc125p013 #3	:5P029_POST	3	Sample
16	Vial 1	gc125p013 #1	:5P029_POST	3	Sample
17	Vial 7	Pause	PAUSE	1	Sample
18	Vial 7	gc125p013 #7	:5P029_POST	3	Sample
19	Vial 6	gc125p013 #6	:5P029_POST	3	Sample
20	Vial 5	gc125p013 #5	:5P029_POST	3	Sample
21	Vial 4	gc125p013 #4	:5P029_POST	3	Sample
22	Vial 3	gc125p013 #3	:5P029_POST	3	Sample
23	Vial 1	gc125p013 #1	:5P029_POST	3	Sample
24	Vial 7	Pause	PAUSE	1	Sample

Injection Source and Location

Injection Source: Valve

Injection Location: Dual

OVEN\DET

Runtime (min): 16.3

Zone Temperatures:

	State	Setpoint
Inl. A	ON	175 C.
Inl. B	ON	175 C.
Det. A	ON	250 C.
Det. B	ON	250 C.
Aux.	OFF	120 C.

Oven Zone:

Oven max	260 C.
Equib Time	0.30 Min.
Oven State	ON
Cryo State	OFF
Ambient	25 C.
Cryo Blast	OFF

Oven Program:

	Setpoint		
Initial Temp.:	50 C.		
Initial Time:	4.00 Min.		
Level	Rate (C/min.)	Final Temp.(C)	Final Time (min)
1	30.0	180	8.00

InletA Pressure Program Information

Constant Flow:	On
Pressure:	0.0 psi
Temperature:	50 C

Pressure Program:

	Setpoint		
Initial Pres.:	0.0 psi		
Initial Time:	650.00 min.		
Level	Rate (psi/min.)	Final Pres.(psi)	Final Time (min)
1	0.00	0.0	0.00
2(A)	0.00	0.0	0.00
3(B)	0.00	0.0	0.00
Total Program Time:	650.00		

GC Pressure Units:psi

Entered Values:

Column	Page Analytical	30.00	m.
	FSD 1108-200		

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Modified on: 7/8/2011 at 9:09:17 AM

Column Diameter: 0.320 mm.
Gas: H2
Vacuum Comp: Off

InletB Pressure Program Information

Constant Flow: On
Pressure: 4.0 psi
Temperature: 40 C.

Pressure Program:

Setpoint
Initial Pres.: 0.0 psi
Initial Time: 650.00 min.

Level	Rate (psi/min.)	Final Pres.(psi)	Final Time (min)
1	0.00	0.0	0.00
2(A)	0.00	0.0	0.00
3(B)	0.00	0.0	0.00
Total Program Time:	650.00		

GC Pressure Units:psi

Entered Values:

Column Length: 60.00 m.
Column Diameter: 0.530 mm.
Gas: H2
Vacuum Comp: Off

Inlet A Packed Column Information

Equation:---

Pressure-Flow Relationship:

	Pres.	Flow(psi)	(ml/min)
1	---	0.0	
2	---	0.0	
3	---	0.0	

Last pressure calibration:---

Packed Column Flow Setting (ml/min):0.0

Inlet B Packed Column Information

Equation:---

Pressure-Flow Relationship:

	Pres.	Flow(psi)	(ml/min)
1	---	0.0	
2	---	0.0	
3	---	0.0	

Last pressure calibration:---

Packed Column Flow Setting (ml/min):0.0

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	On	0.00	0.00
B (Valve 4)	On	0.00	0.00

A - Splitless Injection: No

B - Splitless Injection: No

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Valves/Relays Information

Initial Setpoints:

5890 Valves:

Valve 1:	Off
Valve 2:	Off
Valve 3 (Purge A):	On
Valve 4 (Purge B):	On

Valve/Relay Time Table:

Time	Name	State	Comment
0.01	Valve1	On	
0.10	Valve1	Off	
1.00	Valve2	On	
1.10	Valve2	Off	

Detector Information

Detector A:

Type	FID
State	ON

Detector B:

Type	FPD
State	ON

Signal Information

Save Data:

Both

Signal 1:

Signal	Det. A
Data rate	20.000 Hz.
Peakwidth	0.013 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Signal 2:

Signal	Det. B
Data rate	20.000 Hz.
Peakwidth	0.013 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Sample Chromatograms

Sample Name: 0711-81 T1R1 Bag COND

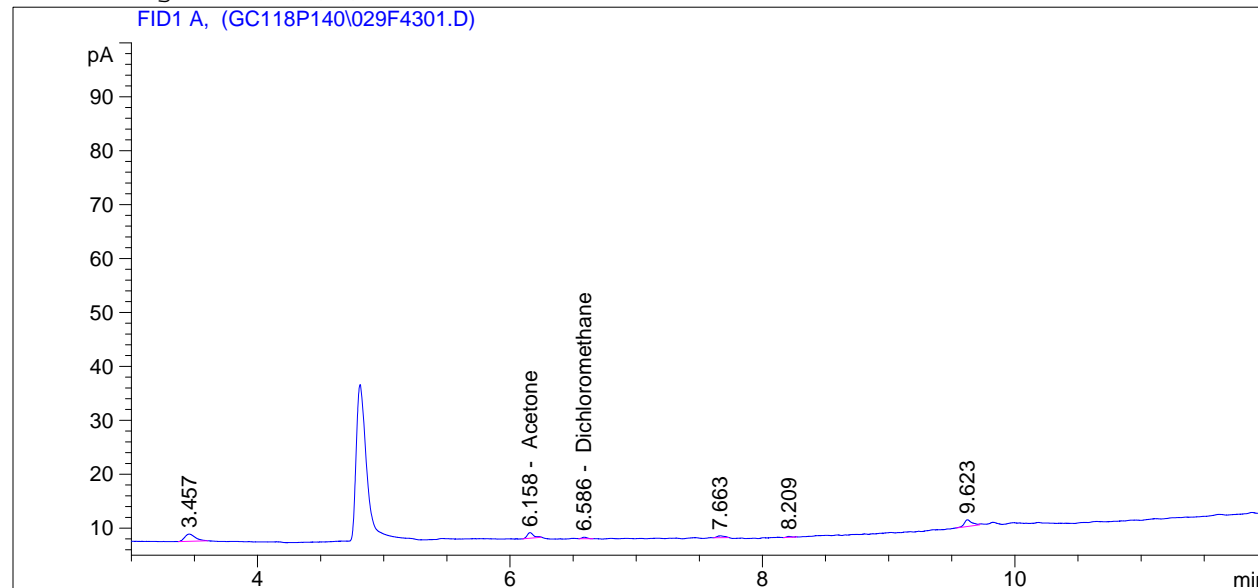
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   43
Acq. Instrument : Veronica                 Location  : Vial 29
Injection Date  : 07-Aug-11, 01:00:37      Inj       :    1
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.158	BB	3.61038	1.09262e-1	3.94477e-1	-	Acetone
6.586	BB	7.23099e-1	6.85848e-1	4.95936e-1	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 8.90413e-1

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R1 Bag COND

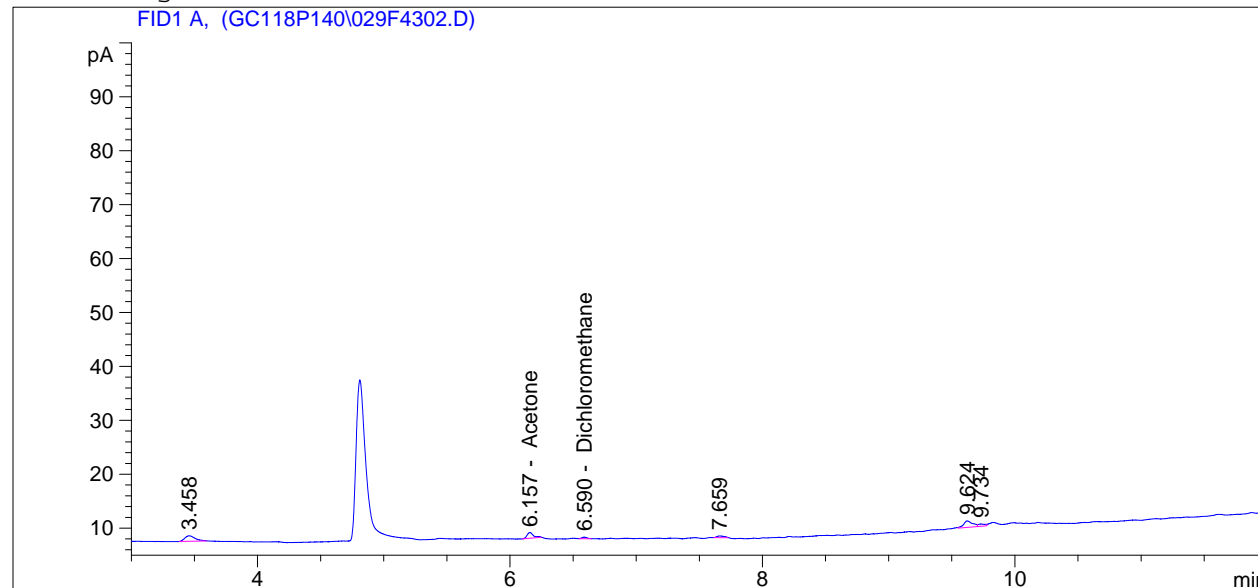
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   43
Acq. Instrument : Veronica                 Location  : Vial 29
Injection Date  : 07-Aug-11, 01:18:28      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.157	BB	3.65399	1.09262e-1	3.99242e-1	-	Acetone
6.590	BB	7.41646e-1	6.85848e-1	5.08656e-1	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 9.07898e-1

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R1 Bag COND

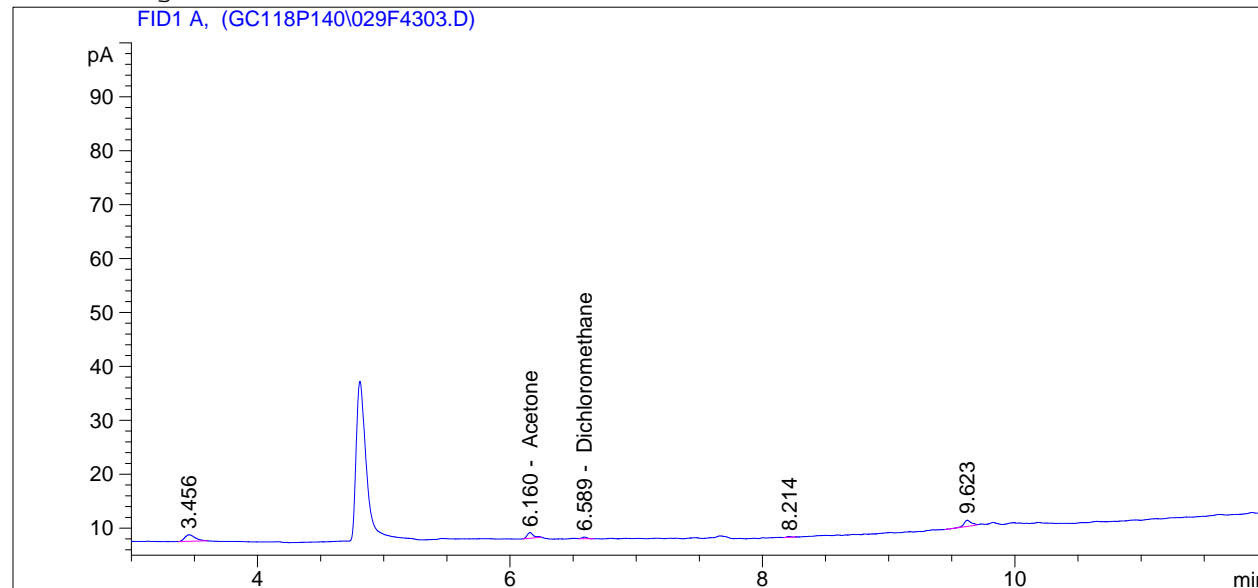
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   43
Acq. Instrument : Veronica                 Location  : Vial 29
Injection Date  : 07-Aug-11, 01:36:19      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.160	BB	3.63959	1.09262e-1	3.97668e-1	-	Acetone
6.589	BB	8.45134e-1	6.85848e-1	5.79633e-1	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 9.77301e-1

1 Warnings or Errors :

Warning: Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R2 Bag COND

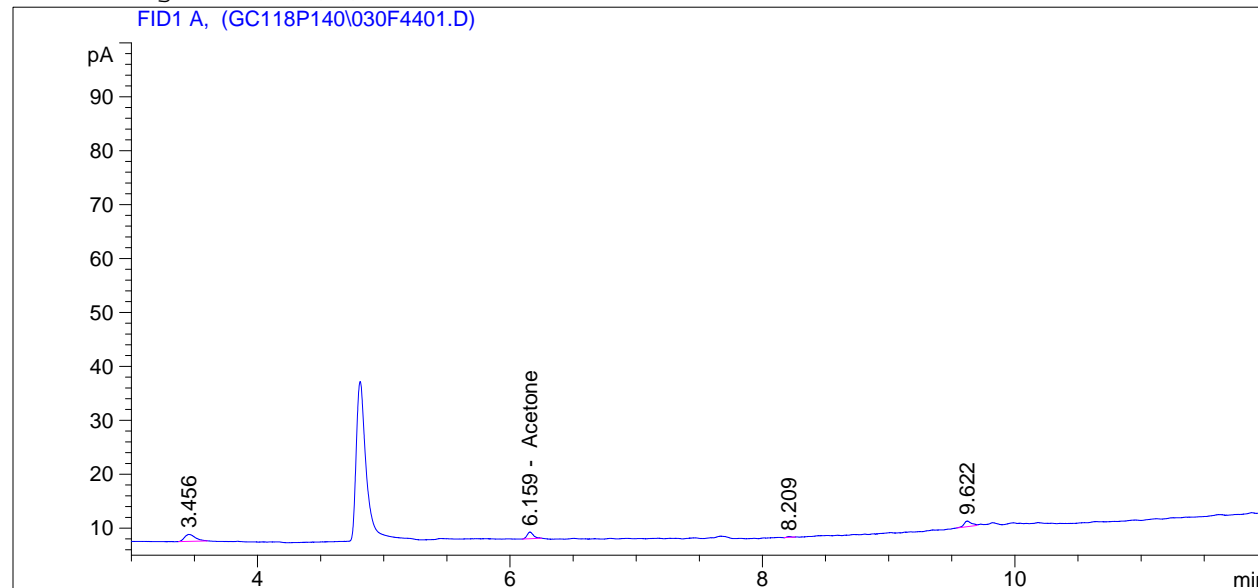
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   44
Acq. Instrument : Veronica                 Location  : Vial 30
Injection Date  : 07-Aug-11, 02:29:45      Inj       :    1
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method  : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



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=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.159	BB	4.27605	1.09262e-1	4.67209e-1	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 4.67209e-1

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R2 Bag COND

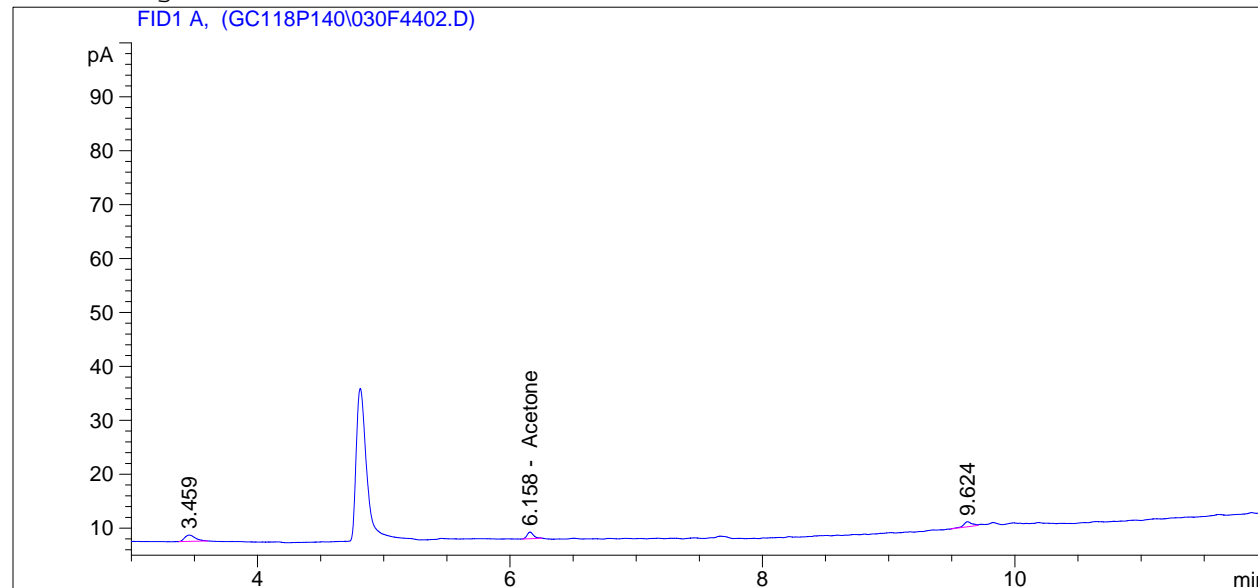
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   44
Acq. Instrument : Veronica                 Location  : Vial 30
Injection Date  : 07-Aug-11, 02:47:33      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

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=====
External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.158	BB	4.34574	1.09262e-1	4.74824e-1	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 4.74824e-1

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R2 Bag COND

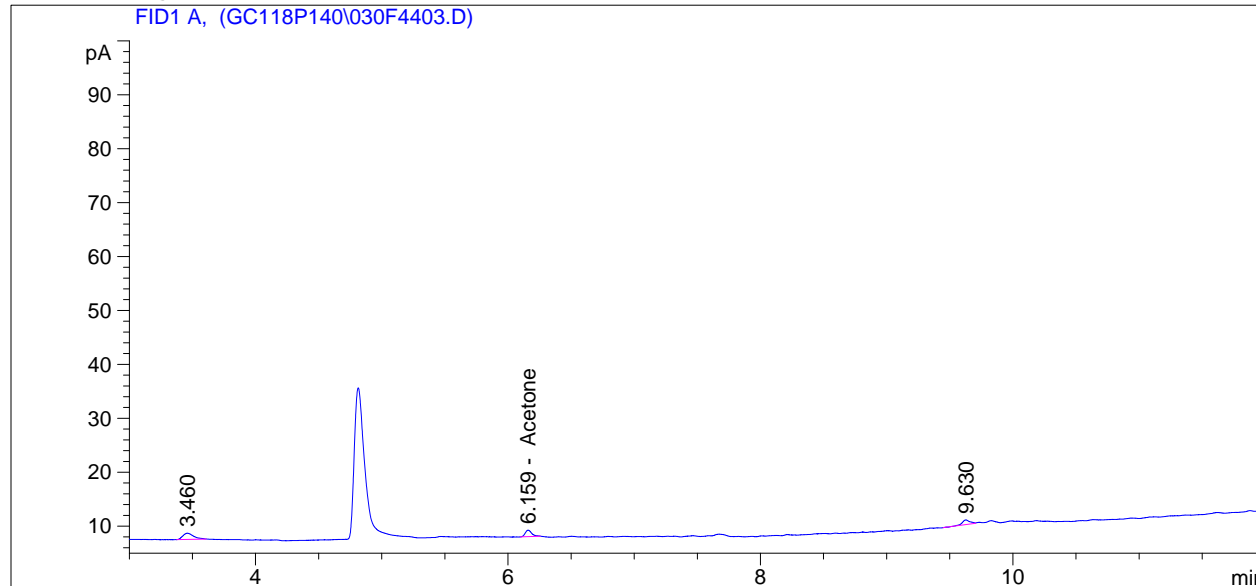
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   44
Acq. Instrument : Veronica                  Location  : Vial 30
Injection Date  : 07-Aug-11, 03:05:20      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.159	BB	4.32085	1.09262e-1	4.72104e-1	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 4.72104e-1

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R3 Bag COND

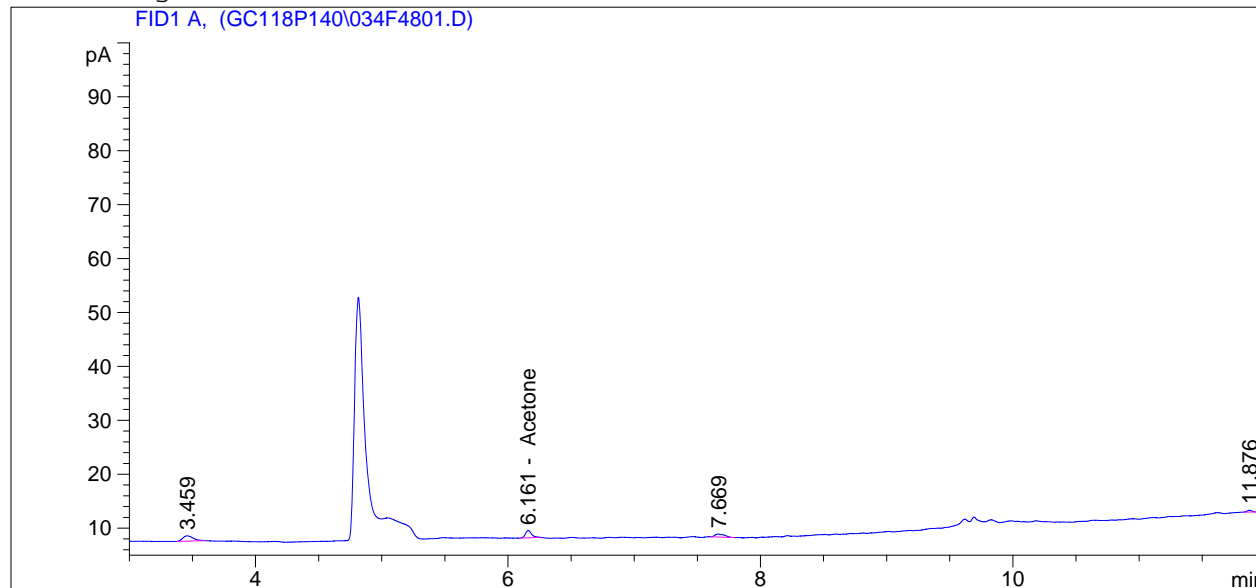
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   48
Acq. Instrument : Veronica                 Location  : Vial 34
Injection Date  : 07-Aug-11, 08:25:19      Inj       :    1
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

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=====
External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.161	BB	4.54608	1.09262e-1	4.96713e-1	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 4.96713e-1

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R3 Bag COND

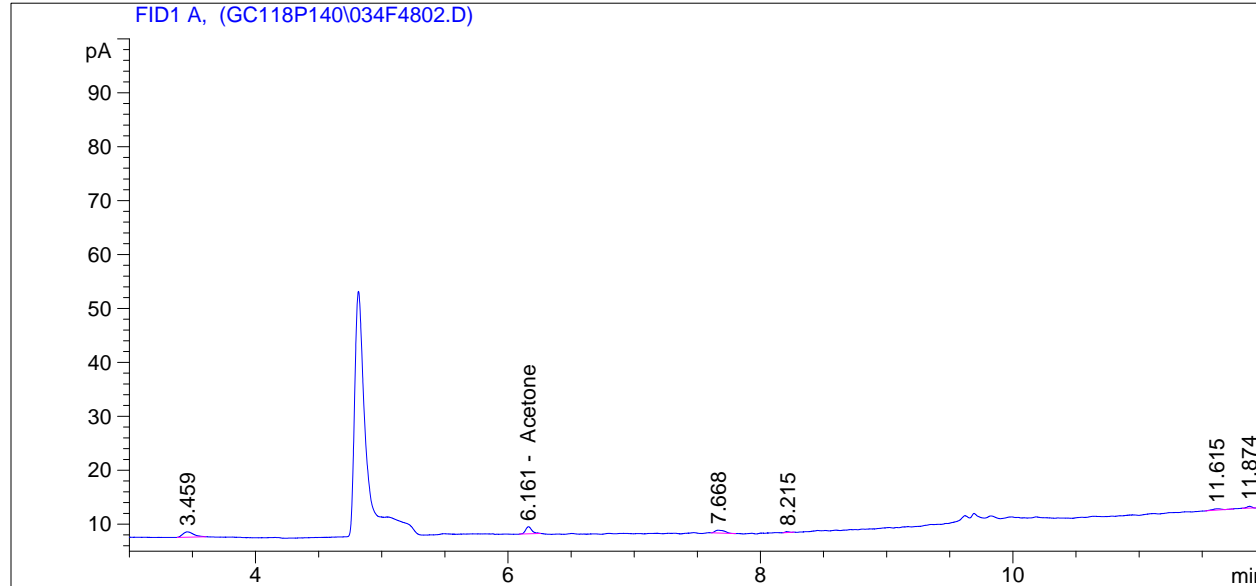
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   48
Acq. Instrument : Veronica                  Location  : Vial 34
Injection Date  : 07-Aug-11, 08:43:08      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

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=====
External Standard Report
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```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.161	BB	4.58072	1.09262e-1	5.00498e-1	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 5.00498e-1

1 Warnings or Errors :

Warning: Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R3 Bag COND

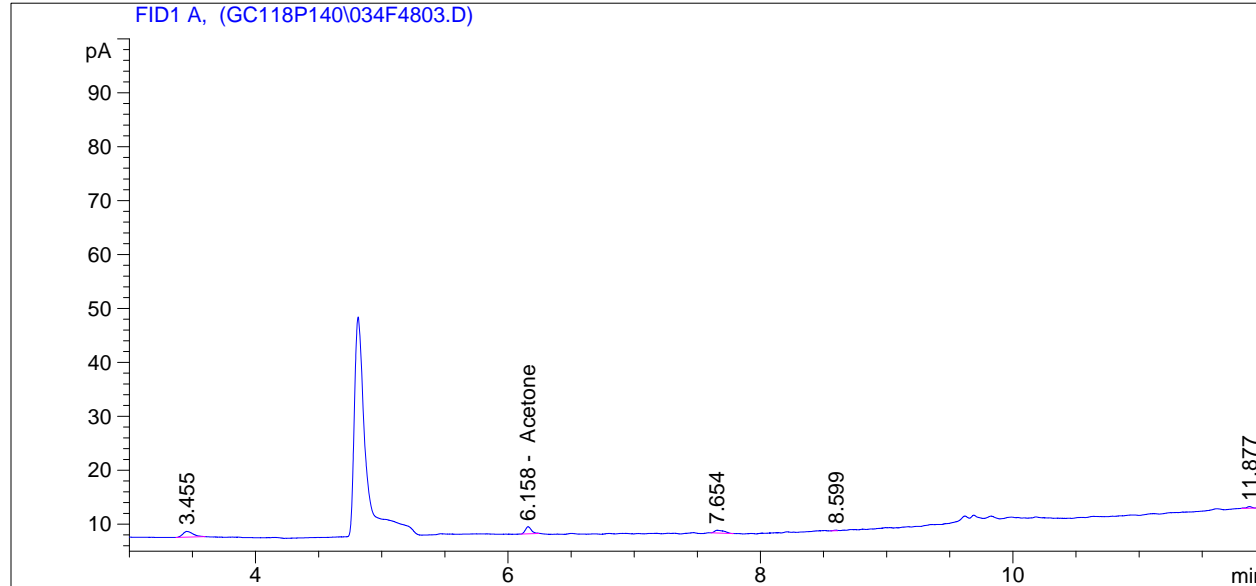
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   48
Acq. Instrument : Veronica                  Location  : Vial 34
Injection Date  : 07-Aug-11, 09:00:53      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.158	BB	4.35122	1.09262e-1	4.75422e-1	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 4.75422e-1

1 Warnings or Errors :

Warning: Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R01 Bag COND

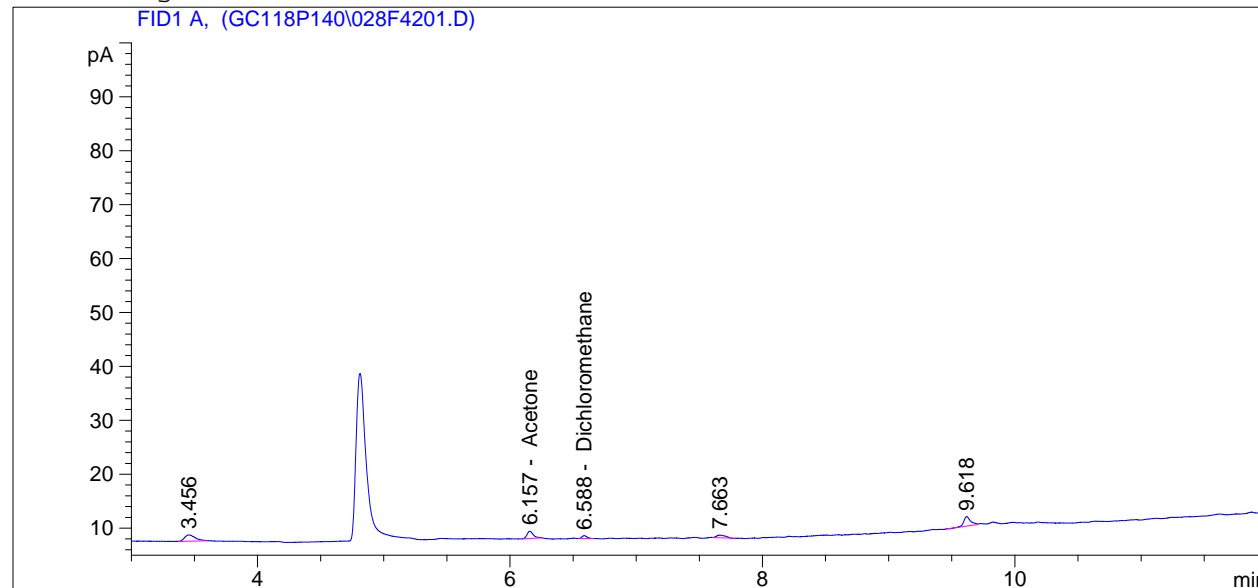
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   42
Acq. Instrument : Veronica                 Location  : Vial 28
Injection Date  : 06-Aug-11, 23:31:10      Inj       :    1
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.157	BB	4.60225	1.09262e-1	5.02851e-1	-	Acetone
6.588	BB	1.43702	6.85848e-1	9.85573e-1	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 1.48842

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R0\ Bag COND

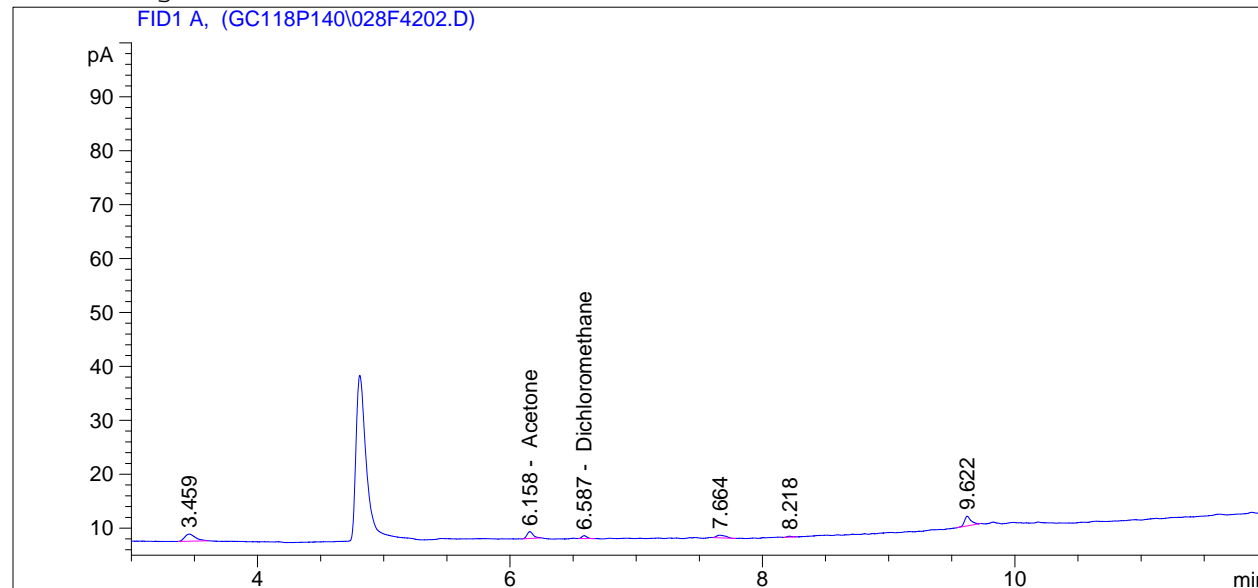
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   42
Acq. Instrument : Veronica                  Location  : Vial 28
Injection Date  : 06-Aug-11, 23:49:04      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



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=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.158	BB	4.40667	1.09262e-1	4.81480e-1	-	Acetone
6.587	BB	1.45829	6.85848e-1	1.00016	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 1.48164

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R01 Bag COND

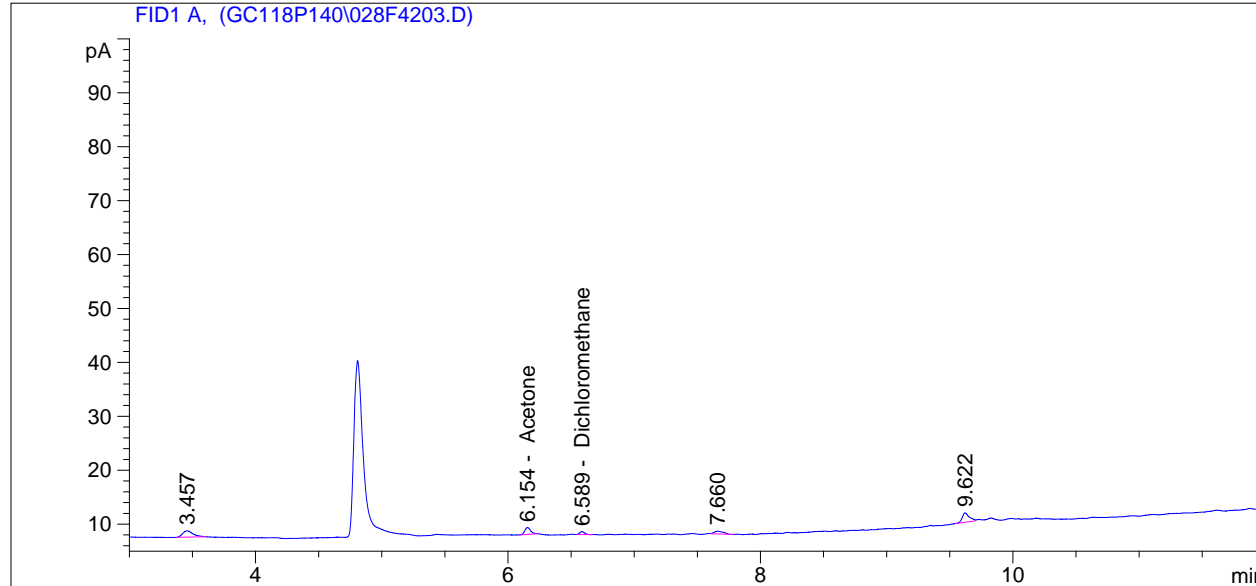
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   42
Acq. Instrument : Veronica                 Location  : Vial 28
Injection Date  : 07-Aug-11, 00:06:59      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.154	BB	4.11615	1.09262e-1	4.49738e-1	-	Acetone
6.589	BB	1.37903	6.85848e-1	9.45804e-1	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 1.39554

1 Warnings or Errors :

Warning: Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: 0711-81 T1R1 Bag COND #MS

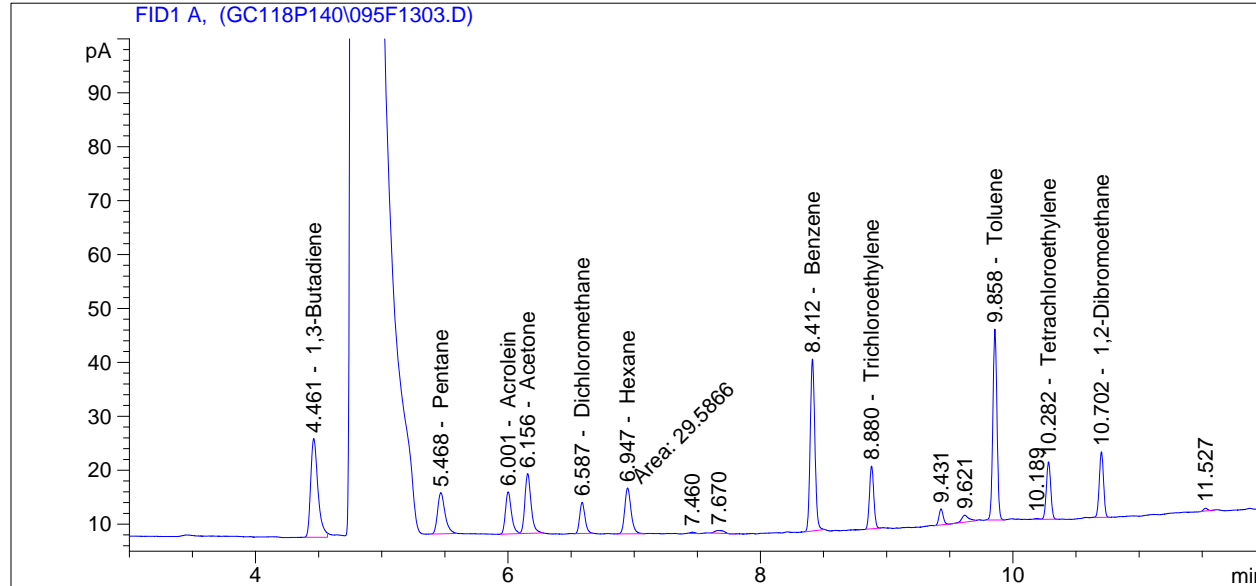
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   13
Acq. Instrument : Veronica                 Location  : Vial 95
Injection Date  : 05-Aug-11, 01:01:58      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/4/2011 7:47:49 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.461	BBA	73.04791	1.50124e-1	10.96623		1,3-Butadiene
5.468	BB	31.08340	1.90716e-1	5.92811		Pentane
6.001	BB	25.90186	3.46140e-1	8.96566		Acrolein
6.156	BB	37.83451	1.79075e-1	6.77520		Acetone
6.587	BB	16.87419	8.22936e-1	13.88637		Dichloromethane
6.947	MM	29.58664	1.32850e-1	3.93058		Hexane
8.412	BB	81.74680	1.07594e-1	8.79543		Benzene
8.880	BB	27.59181	5.13720e-1	14.17447		Trichloroethylene
9.858	BB	80.55415	9.81499e-2	7.90638		Toluene
10.282	VB	25.78817	5.61418e-1	14.47795		Tetrachloroethylene
10.702	BB	28.65065	7.33919e-1	21.02726		1,2-Dibromoethane

Totals : 116.83365

```

=====
*** End of Report ***

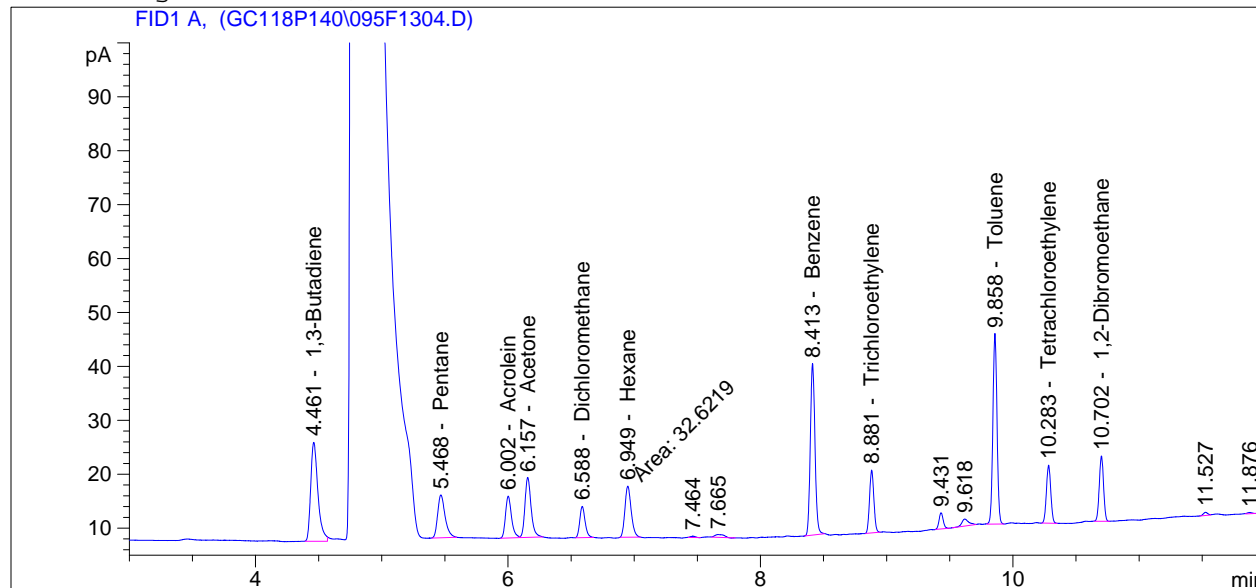
```

Sample Name: 0711-81 T1R1 Bag COND #MS

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   13
Acq. Instrument : Veronica                 Location  : Vial 95
Injection Date  : 05-Aug-11, 01:19:56      Inj       :    4
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/4/2011 7:47:49 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.461	BBA	72.90302	1.50124e-1	10.94447		1,3-Butadiene
5.468	BB	32.37730	1.89670e-1	6.14101		Pentane
6.002	BB	25.62162	3.46208e-1	8.87042		Acrolein
6.157	BB	37.68805	1.78907e-1	6.74267		Acetone
6.588	BB	16.94774	8.23112e-1	13.94989		Dichloromethane
6.949	MM	32.62191	1.32691e-1	4.32864		Hexane
8.413	BB	81.89340	1.07598e-1	8.81160		Benzene
8.881	BB	27.72568	5.13766e-1	14.24452		Trichloroethylene
9.858	BB	80.88069	9.81966e-2	7.94221		Toluene
10.283	BB	26.00729	5.61505e-1	14.60323		Tetrachloroethylene
10.702	BB	28.68289	7.33946e-1	21.05169		1,2-Dibromoethane

```
Totals :                               117.63033
```

```
=====
*** End of Report ***
=====
```

Sample Name: 0711-81 T1R1 Bag COND #MS

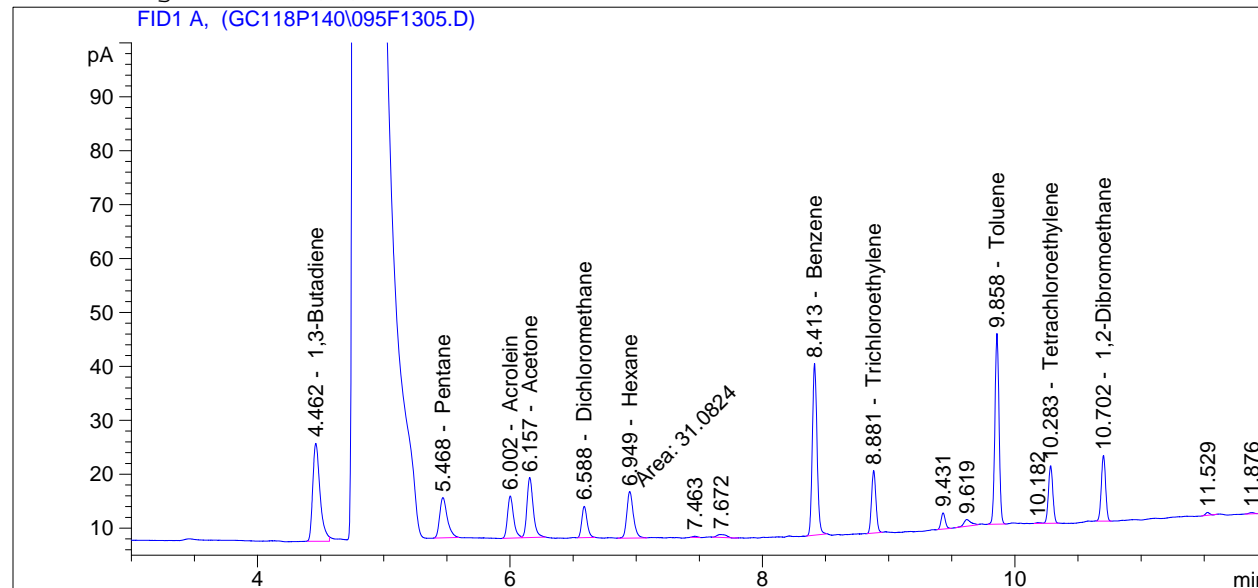
Dry Imp

```

=====
Acq. Operator   : JBB                      Seq. Line :   13
Acq. Instrument : Veronica                 Location  : Vial 95
Injection Date  : 05-Aug-11, 01:37:51      Inj       :    5
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/4/2011 7:47:49 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.462	BBA	73.09464	1.50124e-1	10.97325		1,3-Butadiene
5.468	BB	31.19875	1.90620e-1	5.94709		Pentane
6.002	BB	25.94774	3.46128e-1	8.98125		Acrolein
6.157	BB	37.93270	1.79186e-1	6.79701		Acetone
6.588	BB	16.97161	8.23169e-1	13.97050		Dichloromethane
6.949	MM	31.08244	1.32768e-1	4.12675		Hexane
8.413	BB	82.37745	1.07614e-1	8.86498		Benzene
8.881	BB	27.88259	5.13819e-1	14.32662		Trichloroethylene
9.858	BB	81.16041	9.82363e-2	7.97290		Toluene
10.283	BB	25.93079	5.61475e-1	14.55949		Tetrachloroethylene
10.702	BB	28.85847	7.34090e-1	21.18473		1,2-Dibromoethane

Totals : 117.70457

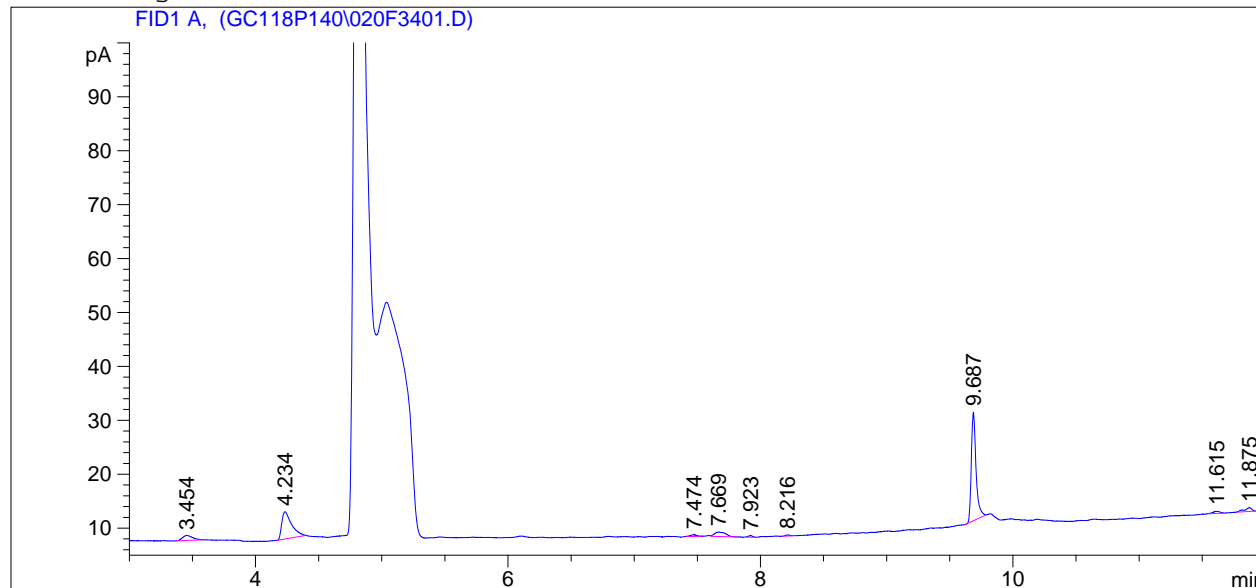
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : JBB                      Seq. Line :   34
Acq. Instrument : Veronica                 Location  : Vial 20
Injection Date  : 06-Aug-11, 11:30:59      Inj       :    1
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/5/2011 2:13:15 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Monday, August 08, 2011 5:07:13 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.142	-	-	-	-	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 0.00000

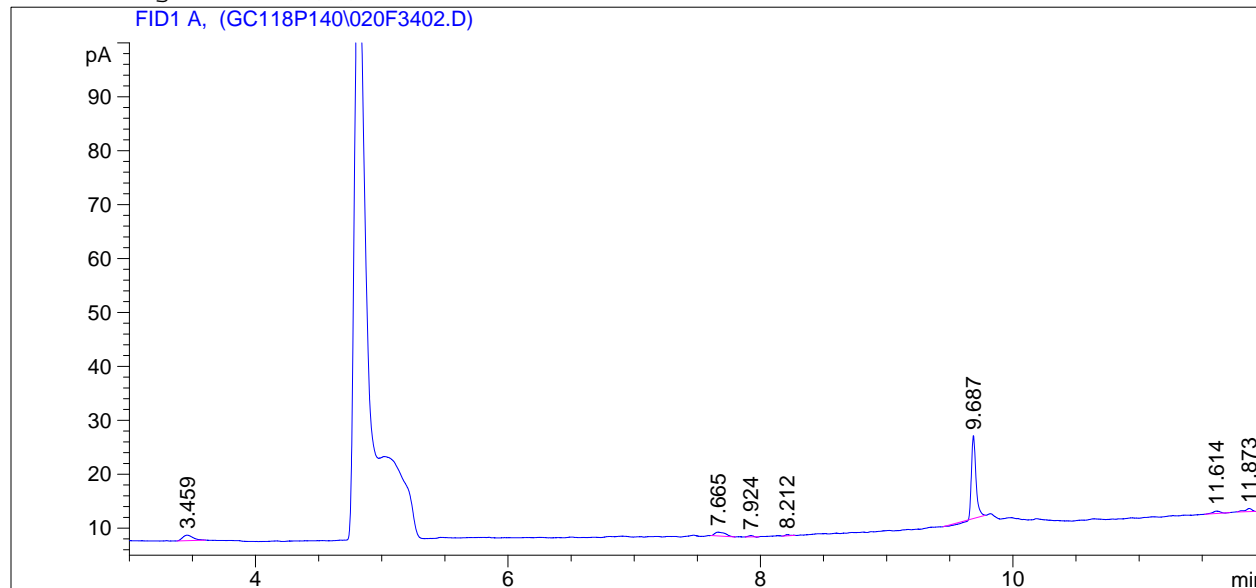
1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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```
=====
Acq. Operator   : JBB                      Seq. Line :   34
Acq. Instrument : Veronica                 Location  : Vial 20
Injection Date  : 06-Aug-11, 11:48:48      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/5/2011 2:13:15 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.142	-	-	-	-	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 0.00000

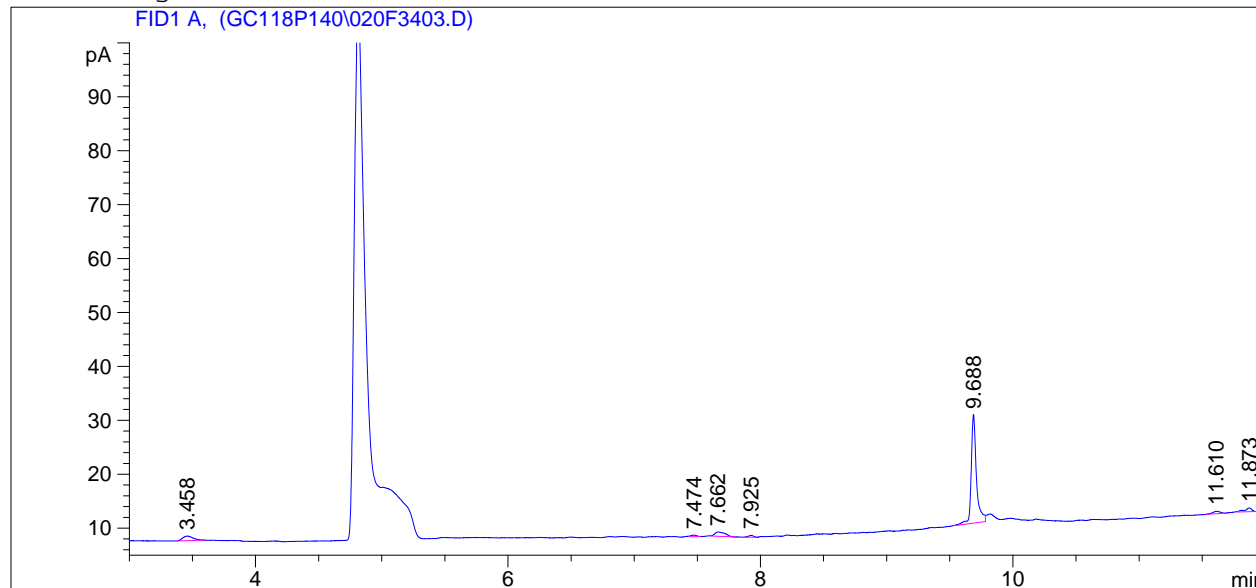
1 Warnings or Errors :

Warning: Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
Page B-825 of 1576

```
=====
Acq. Operator   : JBB                      Seq. Line :   34
Acq. Instrument : Veronica                 Location  : Vial 20
Injection Date  : 06-Aug-11, 12:06:37      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/5/2011 2:13:15 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Monday, August 08, 2011 5:07:13 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.142	-	-	-	-	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 0.00000

1 Warnings or Errors :

Warning Peak Analytical - Not identified compound(s) not found
FSD 1108-200

FHR Pine Bend LLC
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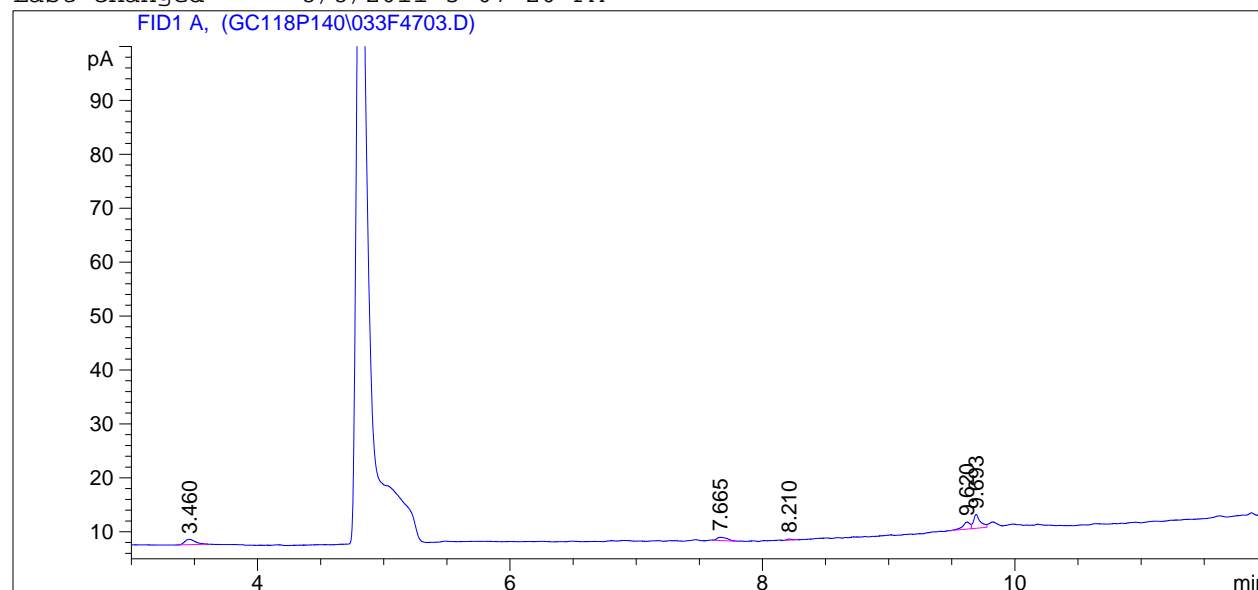
Sample Name: RB H2O

```

=====
Acq. Operator   : JBB                      Seq. Line :   47
Acq. Instrument : Veronica                 Location  : Vial 33
Injection Date  : 07-Aug-11, 07:32:02      Inj       :    3
                                           Inj Volume: 0.2 µl

Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.142	-	-	-	-	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found
Pace Analytical
FSD 1108-200

FHR Pine Bend LLC
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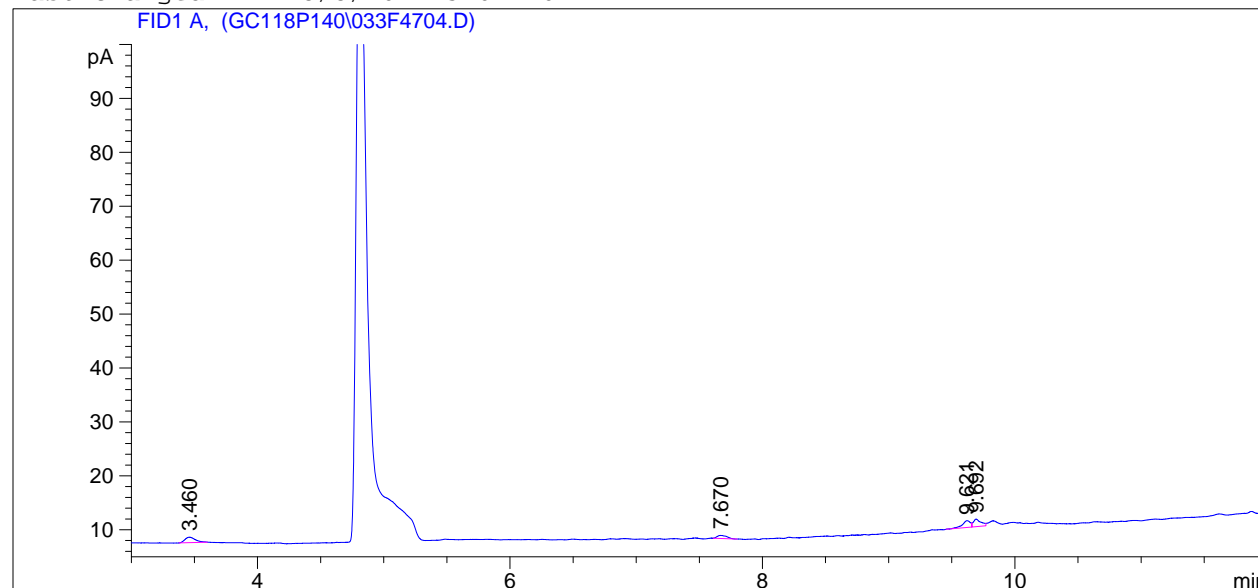
Sample Name: RB H2O

```

=====
Acq. Operator   : JBB                      Seq. Line :   47
Acq. Instrument : Veronica                 Location  : Vial 33
Injection Date  : 07-Aug-11, 07:49:46      Inj       :    4
                                           Inj Volume: 0.2 µl

Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.142	-	-	-	-	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found
Pace Analytical
FSD 1108-200

FHR Pine Bend LLC
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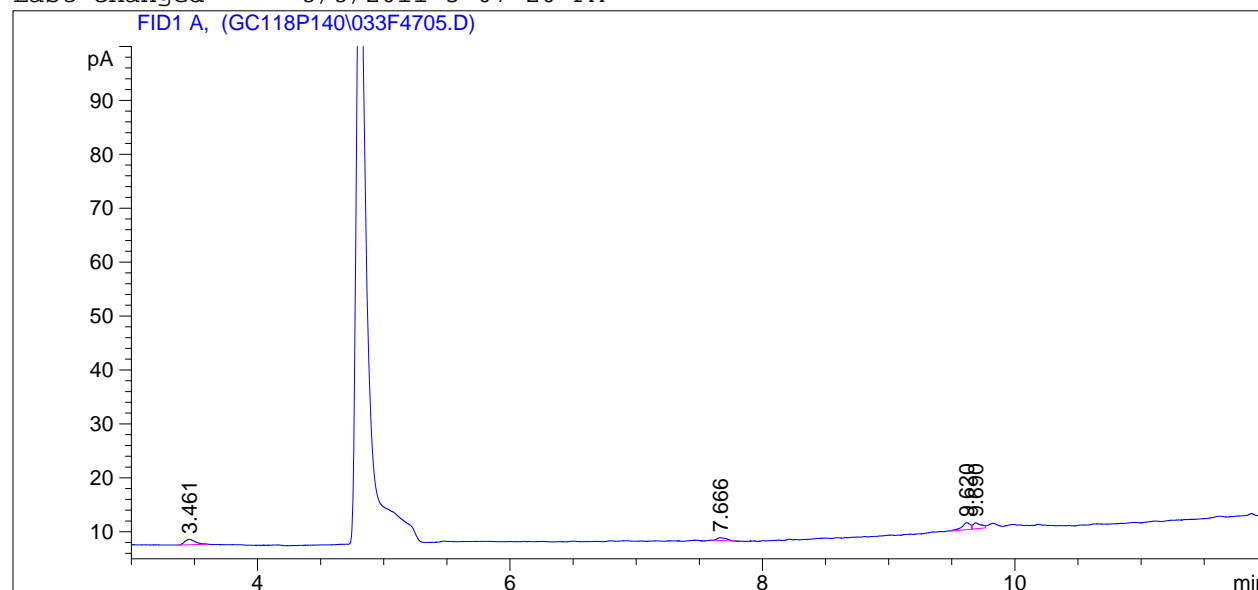
Sample Name: RB H2O

```

=====
Acq. Operator   : JBB                      Seq. Line :   47
Acq. Instrument : Veronica                 Location  : Vial 33
Injection Date  : 07-Aug-11, 08:07:32      Inj       :    5
                                           Inj Volume: 0.2 µl

Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 5:07:20 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Monday, August 08, 2011 5:07:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.449	-	-	-	-	-	1,3-Butadiene
5.476	-	-	-	-	-	Pentane
5.987	-	-	-	-	-	Acrolein
6.142	-	-	-	-	-	Acetone
6.572	-	-	-	-	-	Dichloromethane
6.932	-	-	-	-	-	Hexane
8.405	-	-	-	-	-	Benzene
8.870	-	-	-	-	-	Trichloroethylene
9.851	-	-	-	-	-	Toluene
10.276	-	-	-	-	-	Tetrachloroethylene
10.696	-	-	-	-	-	1,2-Dibromoethane

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found
Pace Analytical
FSD 1108-200

FHR Pine Bend LLC
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Calibration Curve Chromatograms

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : 8/8/2011 3:48:45 PM

Rel. Reference Window : 0.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 0.000 %
 Abs. Non-ref. Window : 0.100 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Quadratic (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
 Signal 2: FPD2 B,

RetTime	Lvl	Amount	Area	Amt/Area	Ref Grp Name
[min] Sig					
4.410	1 1	2.19600	14.61563	1.50250e-1	1,3-Butadiene
	2	4.38300	29.15581	1.50330e-1	
	3	10.89100	74.59686	1.45998e-1	
	4	52.38300	331.99671	1.57782e-1	
	5	183.34000	1251.10034	1.46543e-1	
5.362	1 1	1.24700	2.83166	4.40377e-1	Pentane
	2	2.48900	9.41870	2.64261e-1	
	3	6.18600	32.53915	1.90109e-1	
	4	29.75000	171.71405	1.73253e-1	
	5	104.12500	659.62087	1.57856e-1	
5.944	1 1	1.65000	4.29279	3.84366e-1	Acrolein
	2	3.29300	9.25395	3.55848e-1	
	3	8.18400	25.61892	3.19451e-1	
	4	39.36000	109.80720	3.58446e-1	
	5	137.76000	395.29392	3.48500e-1	
6.101	1 1	1.57700	14.33864	1.09983e-1	Acetone
	2	3.14700	22.16728	1.41966e-1	
	3	7.82000	40.44277	1.93360e-1	
	4	37.61200	184.85108	2.03472e-1	
	5	131.64000	586.56504	2.24425e-1	
6.527	1 1	2.64400	3.82086	6.91990e-1	Dichloromethane
	2	5.27800	7.07045	7.46487e-1	
	3	13.11800	15.86576	8.26812e-1	
	4	63.08900	72.18132	8.74035e-1	
	5	220.81100	260.29853	8.48299e-1	
6.885	1 1	1.30900	9.58982	1.36499e-1	Hexane
	2	2.61200	19.54366	1.33649e-1	

Pace Analytical
 FSD 1108-200

FHR Pine Bend LLC
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RetTime [min]	Lvl Sig	Amount	Area	Amt/Area	Ref	Grp Name
8.380	1	3 6.49200	49.34675	1.31559e-1		
		4 31.22400	233.96188	1.33458e-1		
		5 109.28400	842.25958	1.29751e-1		
		1 1.74400	17.72487	9.83928e-2		Benzene
		2 3.48000	33.87357	1.02735e-1		
8.837	1	3 8.64900	80.48781	1.07457e-1		
		4 41.59800	377.41448	1.10218e-1		
		5 145.59400	1320.42155	1.10263e-1		
		1 2.92000	6.05215	4.82473e-1		Trichloroethylene
		2 5.82900	11.80121	4.93932e-1		
9.828	1	3 14.48500	27.97445	5.17794e-1		
		4 69.66700	133.19106	5.23061e-1		
		5 243.83300	467.56150	5.21499e-1		
		1 1.72300	24.16054	7.13146e-2		Toluene
		2 3.43900	39.84534	8.63087e-2		
10.254	1	3 8.54700	87.35443	9.78428e-2		
		4 41.10800	382.25313	1.07541e-1		
		5 143.87800	1309.64054	1.09861e-1		
		1 3.22300	6.05874	5.31959e-1		Tetrachloroethylene
		2 6.43400	11.78002	5.46179e-1		
10.676	1	3 15.98900	29.20872	5.47405e-1		
		4 76.89900	133.70871	5.75123e-1		
		5 269.14800	463.62268	5.80532e-1		
		1 4.30900	6.54973	6.57890e-1		1,2-Dibromoethane
		2 8.60000	12.18008	7.06071e-1		
		3 21.37300	30.56478	6.99269e-1		
		4 102.79400	134.60925	7.63647e-1		
		5 359.77900	463.99523	7.75394e-1		

=====

Peak Sum Table

=====

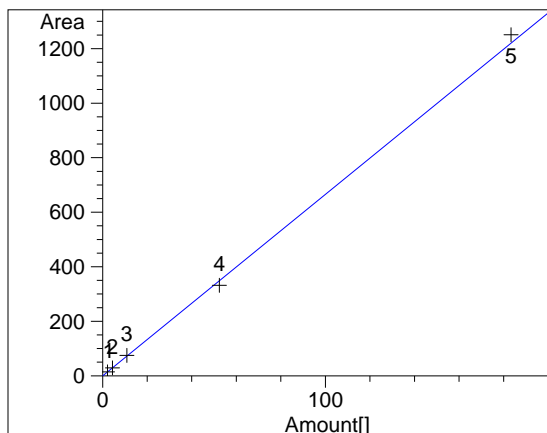
No Entries in table

=====

=====

Calibration Curves

=====



1,3-Butadiene at exp. RT: 4.410

FID1 A,

Correlation: 0.99928

Residual Std. Dev.: 20.10377

Formula: $y = mx + b$

m: 6.65773

b: 3.77100e-2

x: Amount

y: Area

Calibration Level Weights:

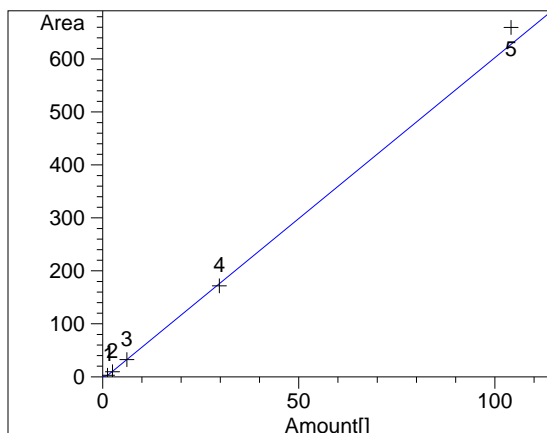
Level 1 : 1

Level 2 : 0.251028

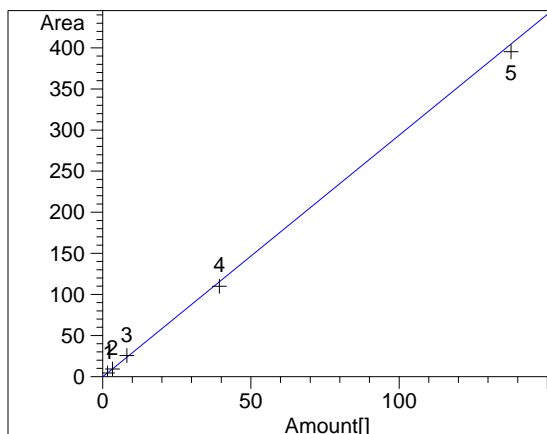
Level 3 : 0.040656

Level 4 : 0.001757

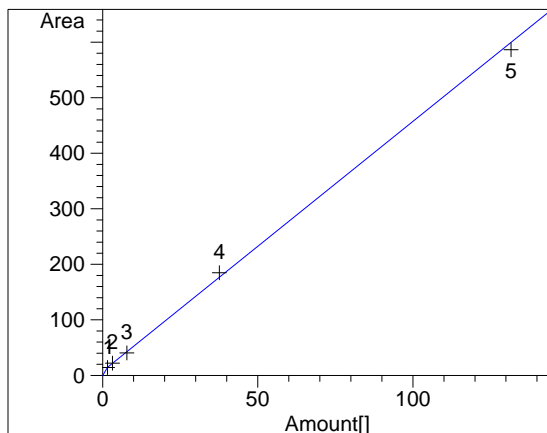
Level 5 : 0.000143



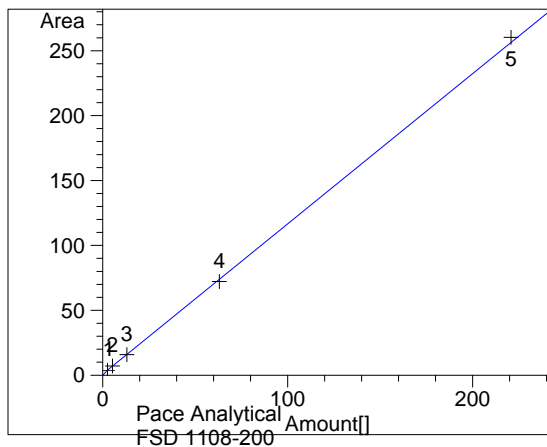
Pentane at exp. RT: 5.362
 FID1 A,
 Correlation: 0.99880
 Residual Std. Dev.: 18.47830
 Formula: $y = mx + b$
 m: 6.07771
 b: -4.94598
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.251005
 Level 3 : 0.040636
 Level 4 : 0.001757
 Level 5 : 0.000143



Acrolein at exp. RT: 5.944
 FID1 A,
 Correlation: 0.99806
 Residual Std. Dev.: 6.50146
 Formula: $y = mx + b$
 m: 2.94260
 b: -4.80451e-1
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.251064
 Level 3 : 0.040648
 Level 4 : 0.001757
 Level 5 : 0.000143

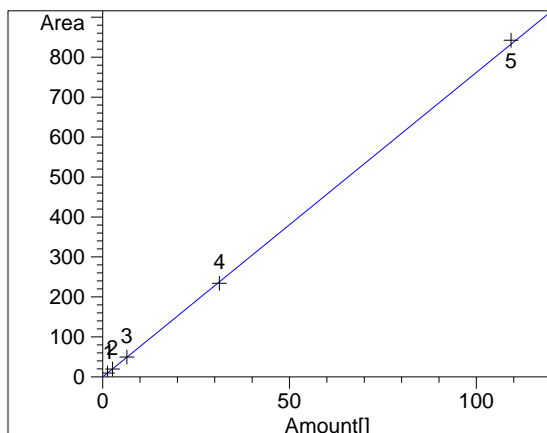


Acetone at exp. RT: 6.101
 FID1 A,
 Correlation: 0.99832
 Residual Std. Dev.: 9.15066
 Formula: $y = mx + b$
 m: 4.50181
 b: 7.33387
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.251113
 Level 3 : 0.040668
 Level 4 : 0.001758
 Level 5 : 0.000144

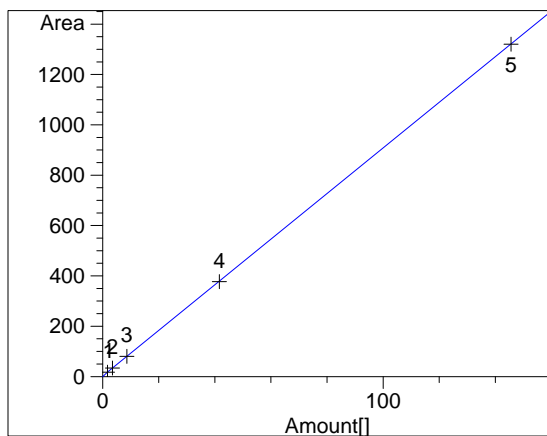


Dichloromethane at exp. RT: 6.527
 FID1 A,
 Correlation: 0.99968
 Residual Std. Dev.: 2.39848
 Formula: $y = mx + b$
 m: 1.15804
 b: 7.93230e-1
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.250948
 Level 3 : 0.040624
 Level 4 : 0.001756

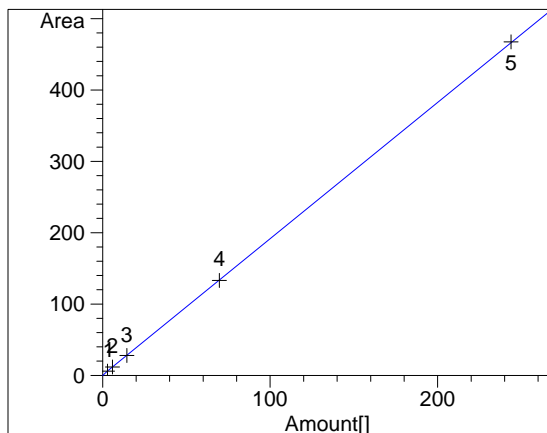
Level 5 : 0.000143



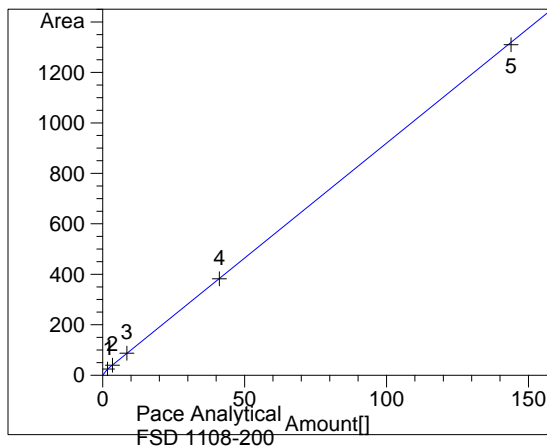
Hexane at exp. RT: 6.885
FID1 A,
Correlation: 0.99992
Residual Std. Dev.: 5.81030
Formula: $y = mx + b$
m: 7.62512
b: -3.84539e-1
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.25115
Level 3 : 0.040656
Level 4 : 0.001758
Level 5 : 0.000143



Benzene at exp. RT: 8.380
FID1 A,
Correlation: 0.99997
Residual Std. Dev.: 1.46711
Formula: $y = mx + b$
m: 9.06776
b: 1.99193
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.251151
Level 3 : 0.040659
Level 4 : 0.001758
Level 5 : 0.000143

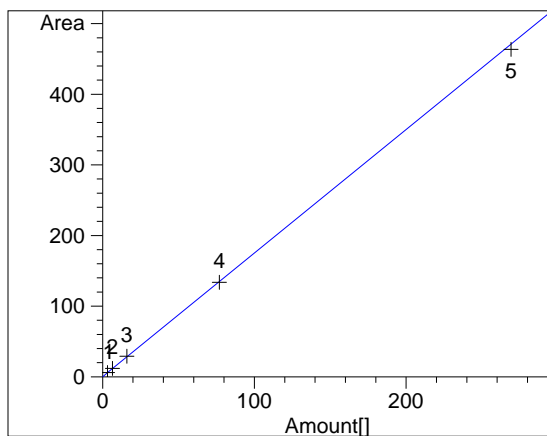


Trichloroethylene at exp. RT: 8.837
FID1 A,
Correlation: 0.99994
Residual Std. Dev.: 0.68204
Formula: $y = mx + b$
m: 1.91115
b: 5.02233e-1
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.250944
Level 3 : 0.040638
Level 4 : 0.001757
Level 5 : 0.000143



Toluene at exp. RT: 9.828
FID1 A,
Correlation: 0.99996
Residual Std. Dev.: 5.92010
Formula: $y = mx + b$
m: 9.11407
b: 8.49484
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.251019
Level 3 : 0.040639
Level 4 : 0.001757

Level 5 : 0.000143



Tetrachloroethylene at exp. RT: 10.254

FID1 A,

Correlation: 0.99977

Residual Std. Dev.: 4.47172

Formula: $y = mx + b$

m: 1.74907

b: 4.65158e-1

x: Amount

y: Area

Calibration Level Weights:

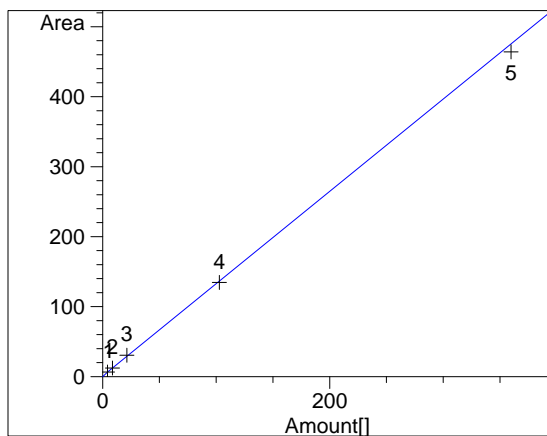
Level 1 : 1

Level 2 : 0.250933

Level 3 : 0.040633

Level 4 : 0.001757

Level 5 : 0.000143



1,2-Dibromoethane at exp. RT: 10.676

FID1 A,

Correlation: 0.99932

Residual Std. Dev.: 6.91674

Formula: $y = mx + b$

m: 1.31977

b: 8.99545e-1

x: Amount

y: Area

Calibration Level Weights:

Level 1 : 1

Level 2 : 0.251048

Level 3 : 0.040646

Level 4 : 0.001757

Level 5 : 0.000143

=====

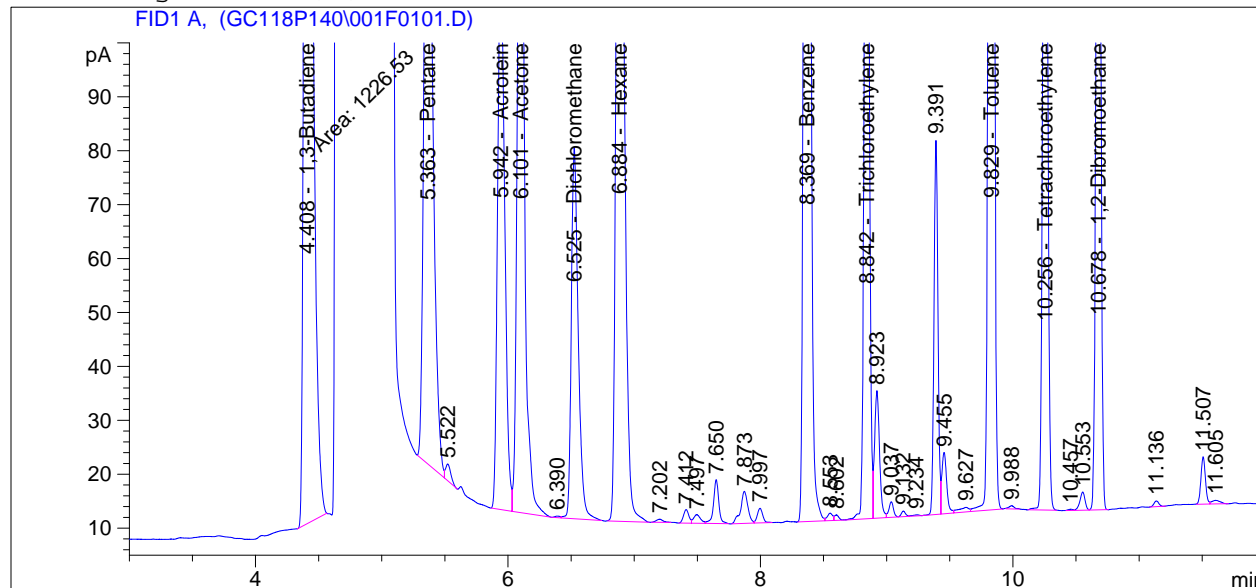
Sample Name: gc118p137 #5

```

=====
Acq. Operator   : JBB                               Seq. Line :    1
Acq. Instrument : Veronica                           Location  : Vial 1
Injection Date  : 03-Aug-11, 20:12:25                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:11:04 PM by JBB
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By      :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	1226.52844	1.50197e-1	184.22063		1,3-Butadiene
5.363	BV	659.69550	1.65769e-1	109.35715		Pentane
5.942	VV	396.10916	3.40248e-1	134.77540		Acrolein
6.101	VB	589.05688	2.19368e-1	129.21994		Acetone
6.525	VB	261.99146	8.60915e-1	225.55225		Dichloromethane
6.884	BB	842.12280	1.31205e-1	110.49096		Hexane
8.369	BV	1321.65991	1.10115e-1	145.53399		Benzene
8.842	VV	470.15738	5.22685e-1	245.74440		Trichloroethylene
9.829	VB	1312.40234	1.09010e-1	143.06532		Toluene
10.256	BB	465.51535	5.71160e-1	265.88364		Tetrachloroethylene
10.678	VB	464.56262	7.56242e-1	351.32166		1,2-Dibromoethane

Totals : 2045.16534

```

=====
*** End of Report ***
=====

```

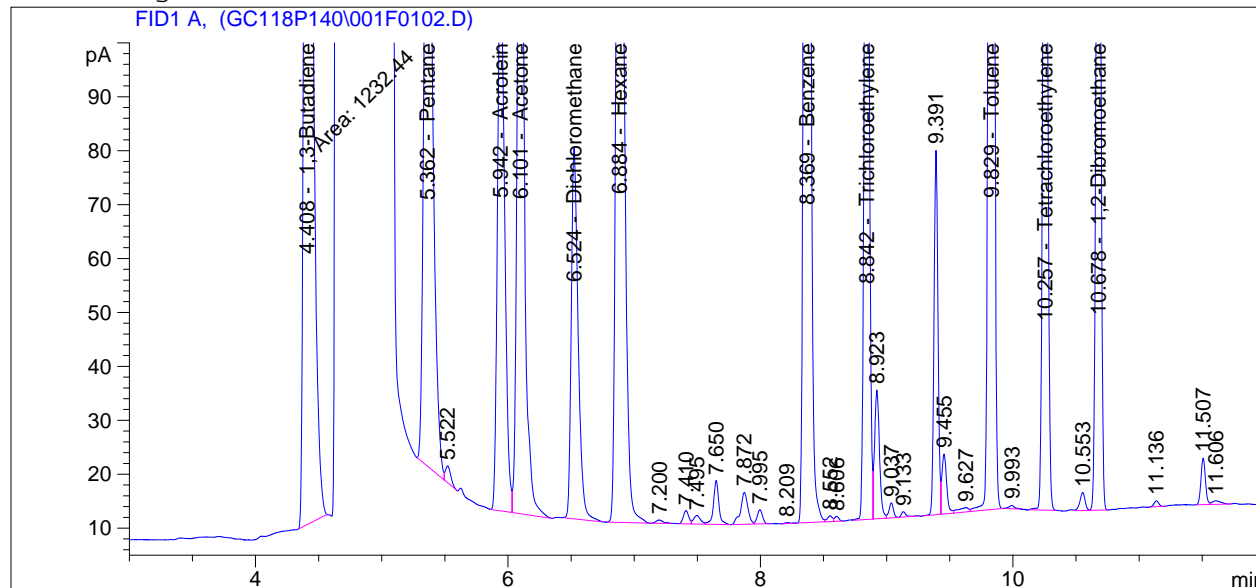
Sample Name: gc118p137 #5

```

=====
Acq. Operator   : JBB                               Seq. Line :    1
Acq. Instrument : Veronica                           Location  : Vial 1
Injection Date  : 03-Aug-11, 20:30:16                Inj       :    2
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	1232.44055	1.50197e-1	185.10863		1,3-Butadiene
5.362	BV	661.77423	1.65765e-1	109.69918		Pentane
5.942	VV	395.07928	3.40249e-1	134.42541		Acrolein
6.101	VB	585.15521	2.19349e-1	128.35325		Acetone
6.524	BB	259.97644	8.60894e-1	223.81223		Dichloromethane
6.884	BB	844.06824	1.31205e-1	110.74609		Hexane
8.369	BB	1320.14880	1.10114e-1	145.36734		Benzene
8.842	BV	465.96396	5.22680e-1	243.55022		Trichloroethylene
9.829	VB	1307.94299	1.09008e-1	142.57604		Toluene
10.257	BB	462.08960	5.71156e-1	263.92503		Tetrachloroethylene
10.678	VB	462.43723	7.56235e-1	349.71123		1,2-Dibromoethane

Totals : 2037.27466

*** End of Report ***

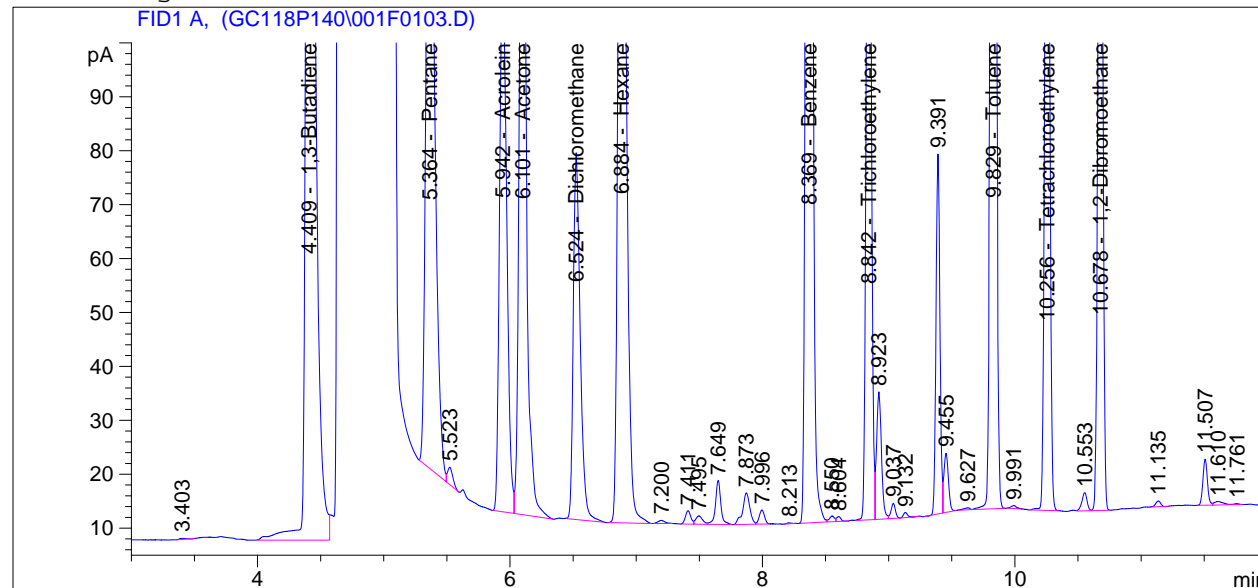
Sample Name: gc118p137 #5

```

=====
Acq. Operator   : JBB                               Seq. Line :    1
Acq. Instrument : Veronica                           Location  : Vial 1
Injection Date  : 03-Aug-11, 20:48:01                 Inj       :    3
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	BBA	1294.33203	1.50197e-1	194.40482		1,3-Butadiene
5.364	BV	657.39288	1.65773e-1	108.97829		Pentane
5.942	VV	394.69333	3.40250e-1	134.29425		Acrolein
6.101	VB	585.48303	2.19351e-1	128.42607		Acetone
6.524	BB	258.92770	8.60884e-1	222.90661		Dichloromethane
6.884	BB	840.58771	1.31205e-1	110.28963		Hexane
8.369	BB	1319.45593	1.10114e-1	145.29093		Benzene
8.842	BV	466.56317	5.22681e-1	243.86375		Trichloroethylene
9.829	VB	1308.57629	1.09008e-1	142.64552		Toluene
10.256	BB	463.26309	5.71157e-1	264.59595		Tetrachloroethylene
10.678	VB	464.98584	7.56243e-1	351.64234		1,2-Dibromoethane

Totals : 2047.33818

*** End of Report ***

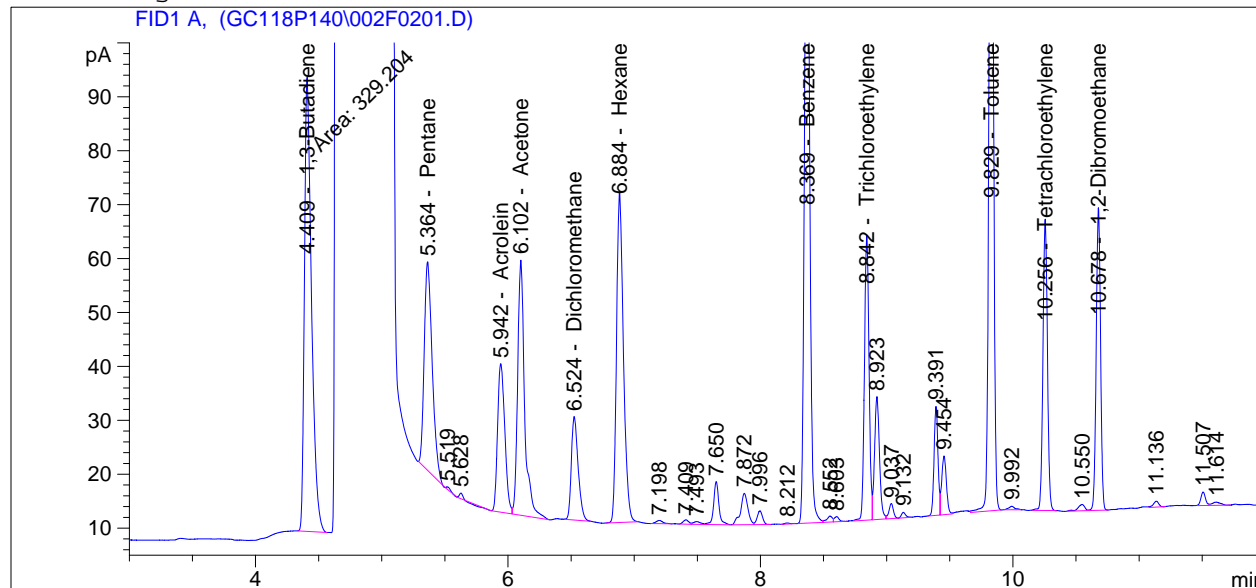
Sample Name: gc118p137 #4

```

=====
Acq. Operator   : JBB                               Seq. Line :    2
Acq. Instrument : Veronica                           Location  : Vial 2
Injection Date  : 03-Aug-11, 21:05:47                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	329.20374	1.50184e-1	49.44120		1,3-Butadiene
5.364	BV	169.86671	1.69326e-1	28.76290		Pentane
5.942	VV	109.56181	3.41326e-1	37.39631		Acrolein
6.102	VB	182.51233	2.13207e-1	38.91294		Acetone
6.524	BB	71.88898	8.54001e-1	61.39325		Dichloromethane
6.884	BB	232.96626	1.31362e-1	30.60288		Hexane
8.369	BB	377.39935	1.09699e-1	41.40022		Benzene
8.842	BV	133.90565	5.21282e-1	69.80259		Trichloroethylene
9.829	BB	383.58774	1.07291e-1	41.15536		Toluene
10.256	BB	133.85051	5.69744e-1	76.26055		Tetrachloroethylene
10.678	VB	134.94307	7.52658e-1	101.56598		1,2-Dibromoethane

```
Totals :                               576.69417
```

```

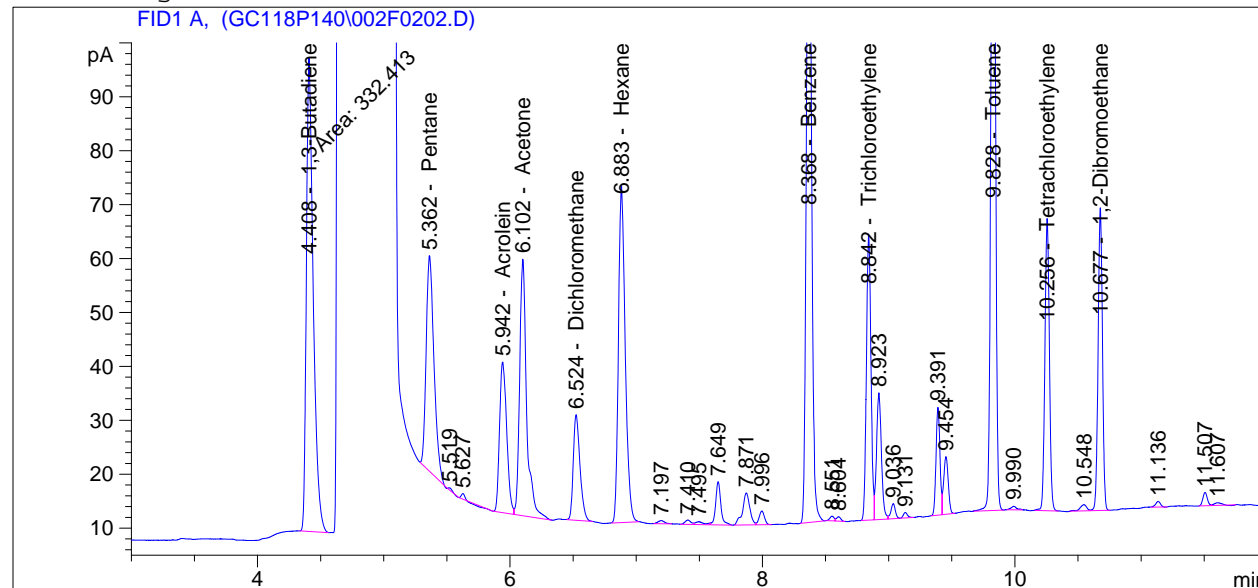
=====
*** End of Report ***
=====

```

Sample Name: gc118p137 #4

```
=====
Acq. Operator   : JBB                               Seq. Line :    2
Acq. Instrument : Veronica                           Location  : Vial 2
Injection Date  : 03-Aug-11, 21:23:35                Inj       :    2
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	332.41293	1.50184e-1	49.92322	--	1,3-Butadiene
5.362	BB	171.98607	1.69267e-1	29.11161		Pentane
5.942	VV	110.16351	3.41318e-1	37.60079		Acrolein
6.102	VB	184.36771	2.13297e-1	39.32508		Acetone
6.524	BB	72.35897	8.54063e-1	61.79909		Dichloromethane
6.883	BB	233.88538	1.31361e-1	30.72342		Hexane
8.368	BB	376.74200	1.09698e-1	41.32772		Benzene
8.842	BV	132.95238	5.21268e-1	69.30379		Trichloroethylene
9.828	BB	381.85071	1.07280e-1	40.96477		Toluene
10.256	BB	133.92207	5.69745e-1	76.30146		Tetrachloroethylene
10.677	VB	134.79082	7.52652e-1	101.45062		1,2-Dibromoethane

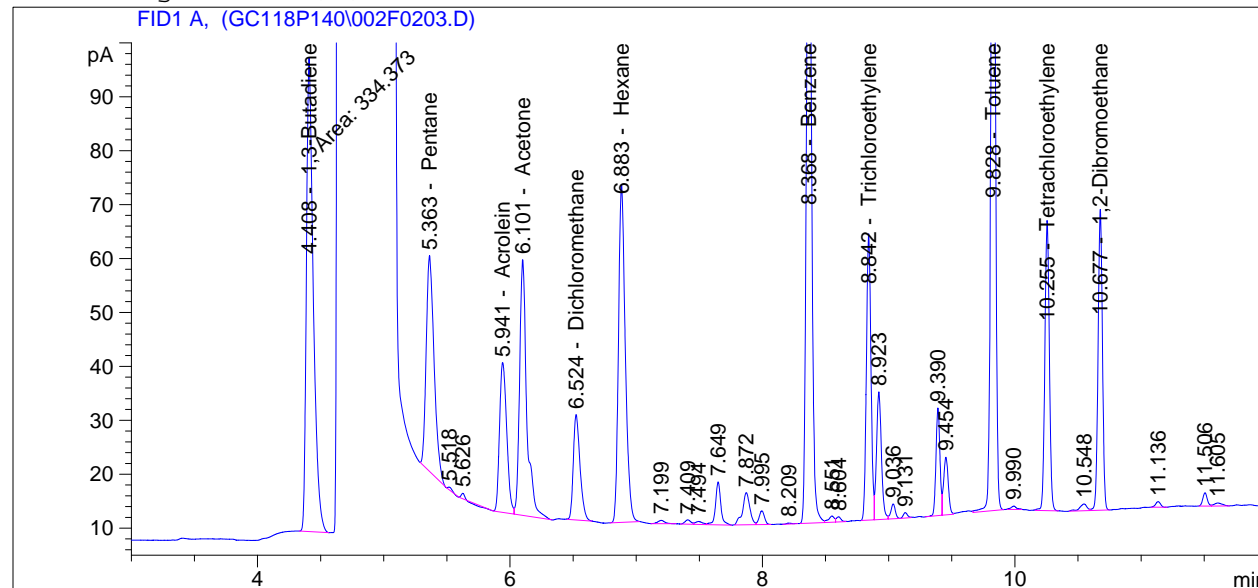
```
Totals :                               577.83159
```

```
=====
*** End of Report ***
=====
```

Sample Name: gc118p137 #4

```
=====
Acq. Operator   : JBB                               Seq. Line :    2
Acq. Instrument : Veronica                         Location  : Vial 2
Injection Date  : 03-Aug-11, 21:41:26              Inj       :    3
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	334.37347	1.50184e-1	50.21770	--	1,3-Butadiene
5.363	BV	173.28935	1.69232e-1	29.32605		Pentane
5.941	VV	109.69628	3.41324e-1	37.44201		Acrolein
6.101	VB	187.67322	2.13453e-1	40.05934		Acetone
6.524	BB	72.29599	8.54054e-1	61.74471		Dichloromethane
6.883	BB	235.03400	1.31360e-1	30.87406		Hexane
8.368	BB	378.10208	1.09700e-1	41.47771		Benzene
8.842	BV	132.71515	5.21264e-1	69.17966		Trichloroethylene
9.828	BB	381.32095	1.07276e-1	40.90665		Toluene
10.255	BB	133.35356	5.69737e-1	75.97643		Tetrachloroethylene
10.677	VB	134.09386	7.52626e-1	100.92252		1,2-Dibromoethane

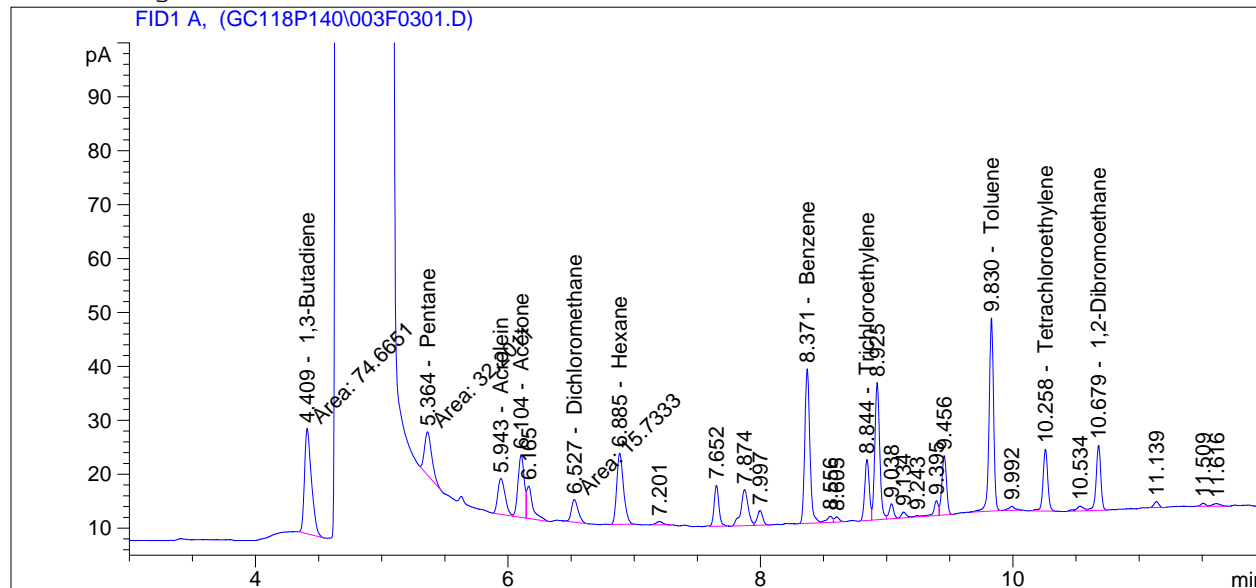
```
Totals :                               578.12684
```

```
=====
*** End of Report ***
=====
```

=====

Acq. Operator	: JBB	Seq. Line	: 3
Acq. Instrument	: Veronica	Location	: Vial 3
Injection Date	: 03-Aug-11, 22:03:34	Inj	: 1
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	74.66510	1.50126e-1	11.20914		1,3-Butadiene
5.364	MM	32.20111	1.89808e-1	6.11202		Pentane
5.943	BV	26.61576	3.45970e-1	9.20827		Acrolein
6.104	VV	39.45575	1.80844e-1	7.13533		Acetone
6.527	MM	15.73328	8.19992e-1	12.90117		Dichloromethane
6.885	BB	49.23299	1.32170e-1	6.50711		Hexane
8.371	BB	80.43694	1.07550e-1	8.65097		Benzene
8.844	BV	28.11043	5.13896e-1	14.44583		Trichloroethylene
9.830	BB	87.67273	9.90893e-2	8.68743		Toluene
10.258	BB	29.82384	5.62814e-1	16.78527		Tetrachloroethylene
10.679	VB	31.05643	7.35762e-1	22.85014		1,2-Dibromoethane

Totals : 124.49269

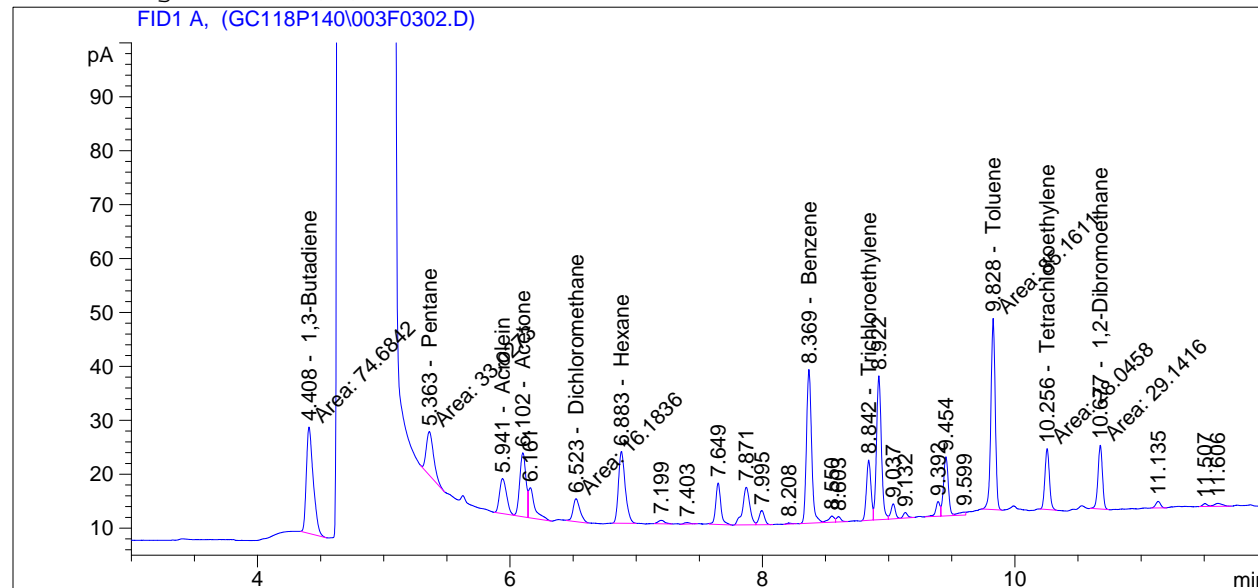
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*** End of Report ***

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Acq. Operator	: JBB	Seq. Line	: 3
Acq. Instrument	: Veronica	Location	: Vial 3
Injection Date	: 03-Aug-11, 22:21:22	Inj	: 2
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	74.68420	1.50126e-1	11.21201		1,3-Butadiene
5.363	MM	33.02729	1.89175e-1	6.24795		Pentane
5.941	VV	25.10314	3.46340e-1	8.69422		Acrolein
6.102	VV	40.72352	1.82129e-1	7.41695		Acetone
6.523	MM	16.18362	8.21204e-1	13.29005		Dichloromethane
6.883	BB	49.46030	1.32165e-1	6.53692		Hexane
8.369	BB	80.62607	1.07556e-1	8.67183		Benzene
8.842	BV	27.87295	5.13816e-1	14.32157		Trichloroethylene
9.828	MM	85.16109	9.87758e-2	8.41186		Toluene
10.256	MM	28.04577	5.62249e-1	15.76869		Tetrachloroethylene
10.677	MM	29.14163	7.34320e-1	21.39928		1,2-Dibromoethane

Totals : 121.97134

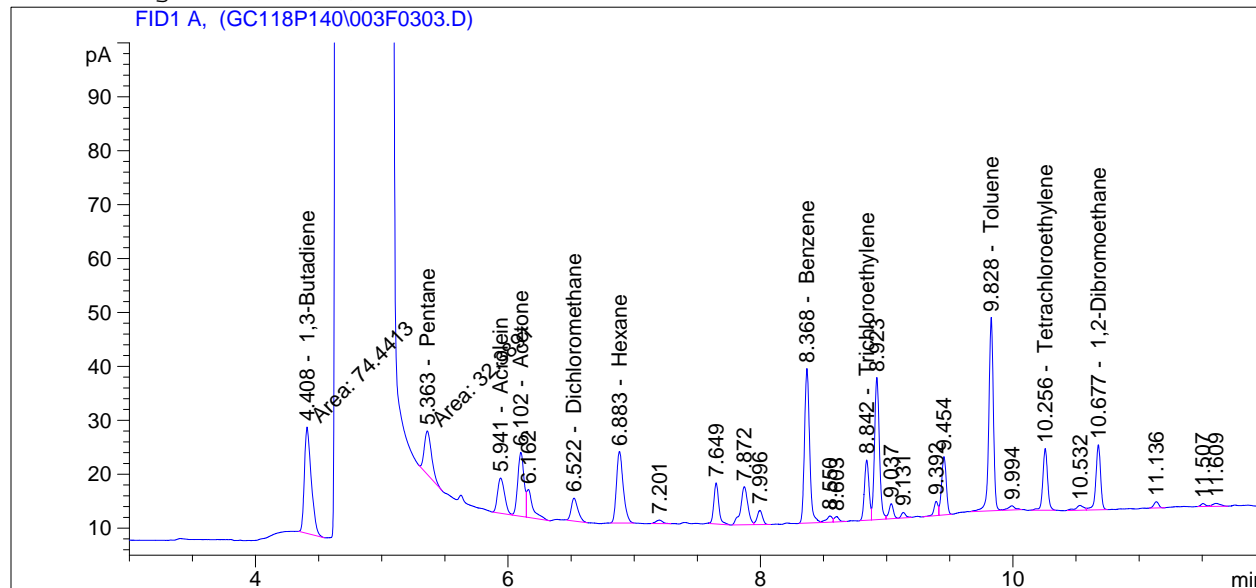
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*** End of Report ***

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Acq. Operator	: JBB	Seq. Line	: 3
Acq. Instrument	: Veronica	Location	: Vial 3
Injection Date	: 03-Aug-11, 22:39:11	Inj	: 3
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	74.44127	1.50125e-1	11.17552		1,3-Butadiene
5.363	MM	32.38907	1.89661e-1	6.14294		Pentane
5.941	VV	25.13787	3.46331e-1	8.70602		Acrolein
6.102	VV	41.14904	1.82543e-1	7.51147		Acetone
6.522	BB	15.68038	8.19845e-1	12.85549		Dichloromethane
6.883	BB	49.34695	1.32167e-1	6.52206		Hexane
8.368	BB	80.40044	1.07549e-1	8.64695		Benzene
8.842	BV	27.93996	5.13839e-1	14.35664		Trichloroethylene
9.828	BB	89.22945	9.92748e-2	8.85824		Toluene
10.256	BB	29.75654	5.62794e-1	16.74680		Tetrachloroethylene
10.677	VB	31.49629	7.36069e-1	23.18343		1,2-Dibromoethane

Totals : 124.70555

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*** End of Report ***

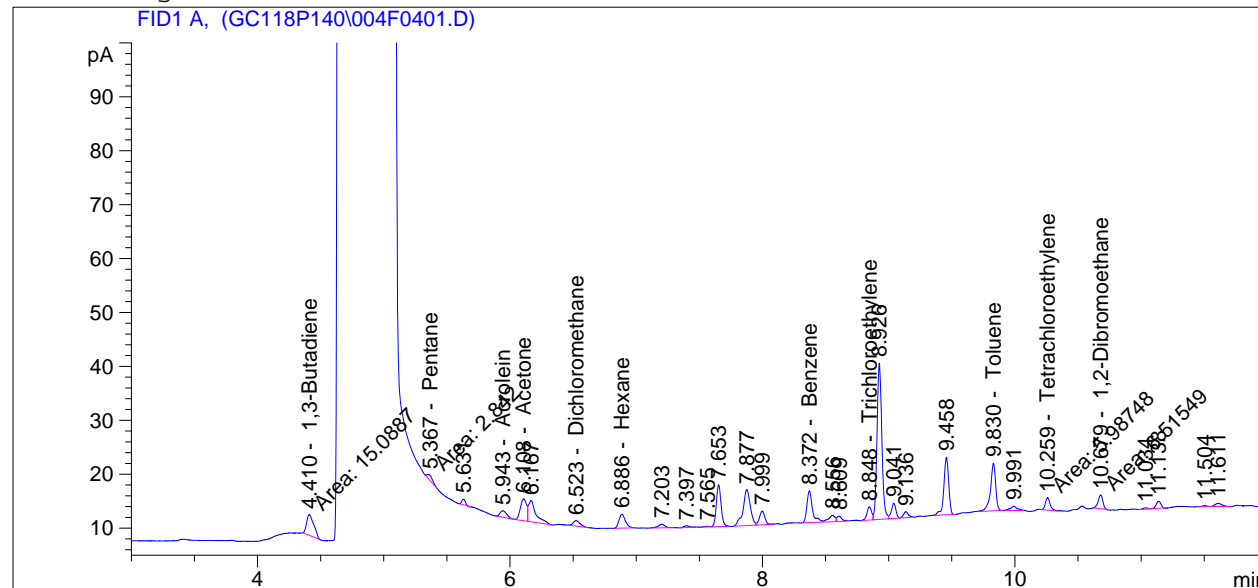
Sample Name: gc118p137 #1

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=====
Acq. Operator   : JBB                               Seq. Line :    4
Acq. Instrument : Veronica                           Location  : Vial 4
Injection Date  : 03-Aug-11, 23:12:41                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

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Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.410	MM	15.08873	1.49826e-1	2.26068		1,3-Butadiene
5.367	MM	2.84200	4.50880e-1	1.28140		Pentane
5.943	BV	4.30224	3.77157e-1	1.62262		Acrolein
6.108	VV	13.75011	1.09262e-1	1.50236		Acetone
6.523	BB	3.89121	6.87497e-1	2.67520		Dichloromethane
6.886	BB	9.21334	1.36400e-1	1.25670		Hexane
8.372	BB	17.95813	9.80483e-2	1.76076		Benzene
8.848	BV	6.25874	4.81257e-1	3.01206		Trichloroethylene
9.830	BB	25.11224	7.26048e-2	1.82327		Toluene
10.259	MM	5.98748	5.28151e-1	3.16229		Tetrachloroethylene
10.679	MM	6.51549	6.54224e-1	4.26259		1,2-Dibromoethane

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Totals :                               24.61994
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*** End of Report ***
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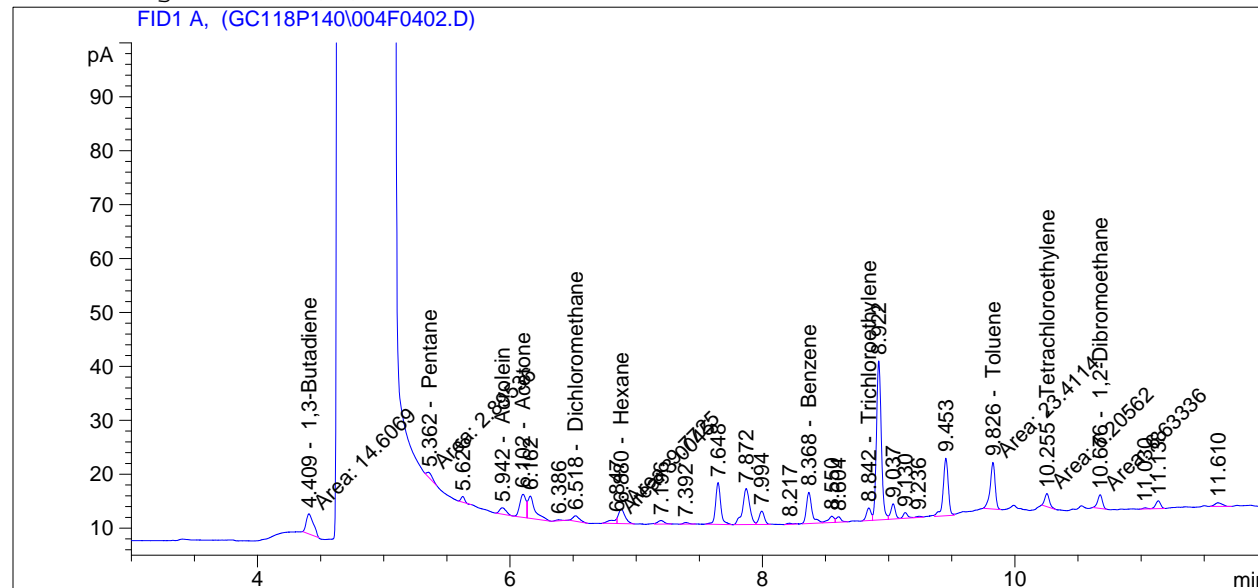
Sample Name: gc118p137 #1

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=====
Acq. Operator   : JBB                      Seq. Line :    4
Acq. Instrument : Veronica                 Location  : Vial 4
Injection Date  : 03-Aug-11, 23:30:21      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	14.60688	1.49815e-1	2.18833		1,3-Butadiene
5.362	MM	2.89536	4.45602e-1	1.29018		Pentane
5.942	BV	4.29101	3.77157e-1	1.61839		Acrolein
6.102	VV	14.41507	1.09262e-1	1.57502		Acetone
6.518	BB	3.76467	6.85848e-1	2.58199		Dichloromethane
6.880	FM	9.77250	1.36306e-1	1.33205		Hexane
8.368	VB	17.54150	9.79439e-2	1.71808		Benzene
8.842	BV	5.97116	4.80042e-1	2.86641		Trichloroethylene
9.826	MM	23.41138	7.12031e-2	1.66696		Toluene
10.255	MM	6.20562	5.28876e-1	3.28200		Tetrachloroethylene
10.676	MM	6.63336	6.54957e-1	4.34456		1,2-Dibromoethane

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Totals :                               24.46397
```

```

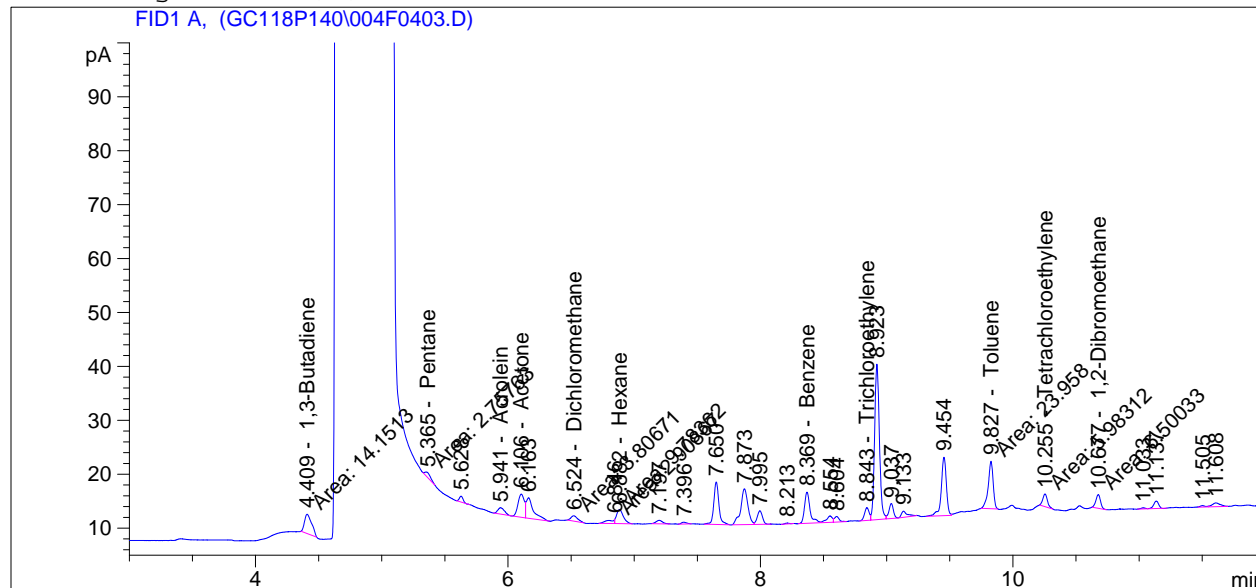
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*** End of Report ***
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Acq. Operator	: JBB	Seq. Line	: 4
Acq. Instrument	: Veronica	Location	: Vial 4
Injection Date	: 03-Aug-11, 23:48:06	Inj	: 3
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	14.15128	1.49815e-1	2.12007		1,3-Butadiene
5.365	MM	2.75763	4.59640e-1	1.26752		Pentane
5.941	BV	4.28510	3.77157e-1	1.61616		Acrolein
6.106	VV	14.85074	1.12435e-1	1.66975		Acetone
6.524	MM	3.80671	6.85848e-1	2.61082		Dichloromethane
6.882	FM	9.78362	1.36300e-1	1.33351		Hexane
8.369	BB	17.67497	9.79439e-2	1.73116		Benzene
8.843	BV	5.92655	4.80042e-1	2.84499		Trichloroethylene
9.827	MM	23.95801	7.12031e-2	1.70588		Toluene
10.255	MM	5.98312	5.28151e-1	3.15999		Tetrachloroethylene
10.677	MM	6.50033	6.54224e-1	4.25268		1,2-Dibromoethane

Totals : 24.31253

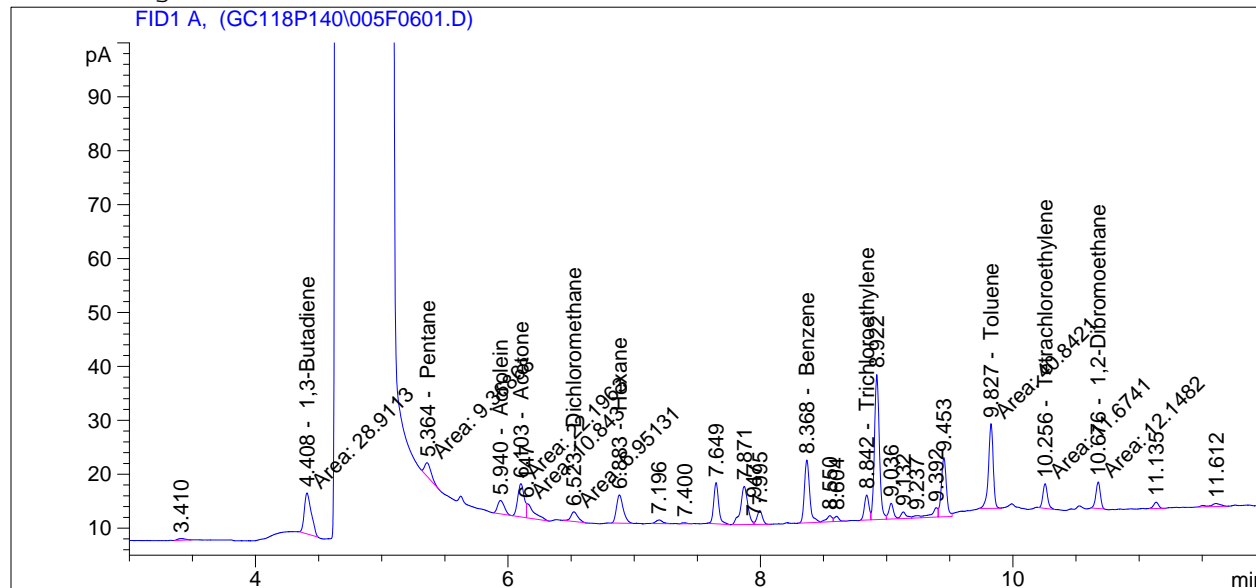
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*** End of Report ***

=====

Acq. Operator	: JBB	Seq. Line	: 6
Acq. Instrument	: Veronica	Location	: Vial 5
Injection Date	: 04-Aug-11, 00:59:14	Inj	: 1
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	28.91132	1.50005e-1	4.33686		1,3-Butadiene
5.364	MM	9.36868	2.51398e-1	2.35527		Pentane
5.940	VV	9.26349	3.57462e-1	3.31134		Acrolein
6.103	MF	22.19626	1.48738e-1	3.30143		Acetone
6.523	MM	6.95131	7.64990e-1	5.31768		Dichloromethane
6.883	BB	19.50779	1.33731e-1	2.60879		Hexane
8.368	BB	33.69397	1.03761e-1	3.49613		Benzene
8.842	BV	11.68691	5.00758e-1	5.85232		Trichloroethylene
9.827	MM	40.84208	8.68994e-2	3.54915		Toluene
10.256	MM	11.67411	5.48950e-1	6.40850		Tetrachloroethylene
10.676	MM	12.14825	7.01603e-1	8.52324		1,2-Dibromoethane

Totals : 49.06071

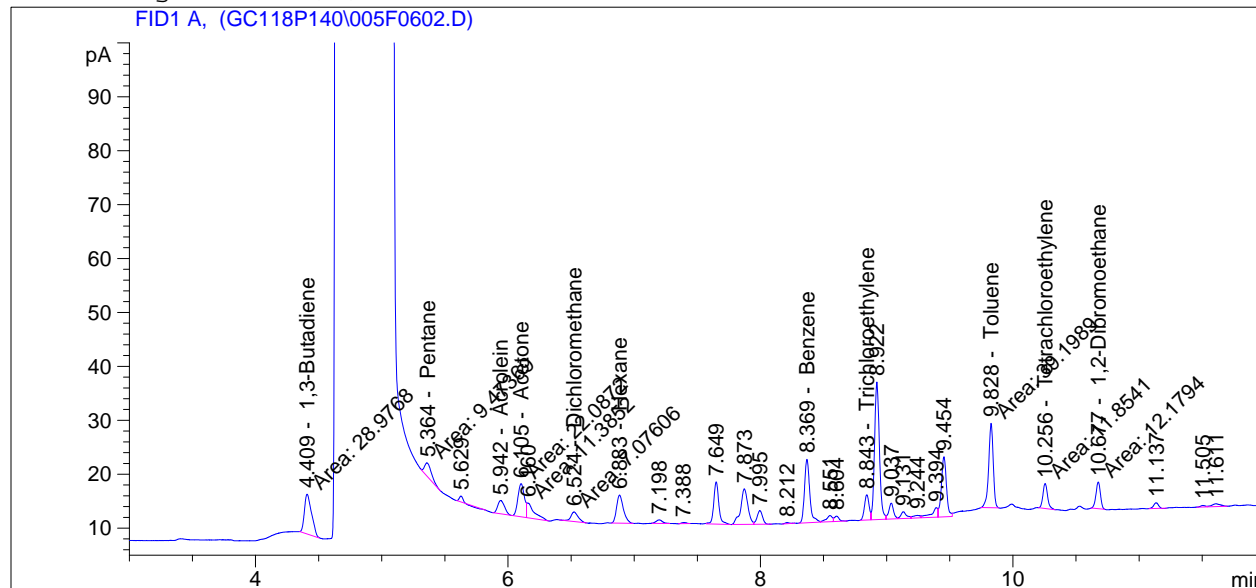
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*** End of Report ***

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Acq. Operator	: JBB	Seq. Line	: 6
Acq. Instrument	: Veronica	Location	: Vial 5
Injection Date	: 04-Aug-11, 01:16:59	Inj	: 2
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	28.97683	1.50006e-1	4.34670		1,3-Butadiene
5.364	MM	9.47369	2.50436e-1	2.37255		Pentane
5.942	BV	9.27036	3.57448e-1	3.31367		Acrolein
6.105	MF	22.08724	1.48376e-1	3.27721		Acetone
6.524	MM	7.07606	7.66727e-1	5.42541		Dichloromethane
6.883	BB	19.48355	1.33734e-1	2.60561		Hexane
8.369	BB	33.95927	1.03812e-1	3.52538		Benzene
8.843	BV	11.89888	5.01159e-1	5.96323		Trichloroethylene
9.828	MM	39.19893	8.59428e-2	3.36887		Toluene
10.256	MM	11.85407	5.49296e-1	6.51139		Tetrachloroethylene
10.677	MM	12.17941	7.01746e-1	8.54685		1,2-Dibromoethane

Totals : 49.25687

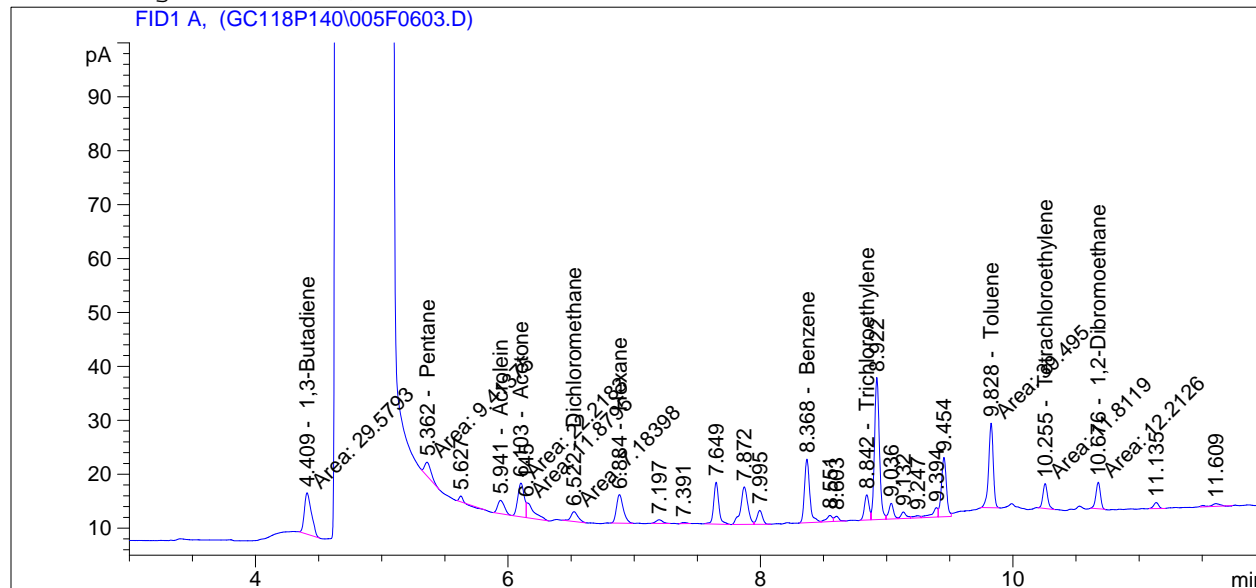
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*** End of Report ***

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Acq. Operator	: JBB	Seq. Line	: 6
Acq. Instrument	: Veronica	Location	: Vial 5
Injection Date	: 04-Aug-11, 01:34:44	Inj	: 3
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	29.57927	1.50010e-1	4.43718		1,3-Butadiene
5.362	MM	9.41375	2.50982e-1	2.36269		Pentane
5.941	BV	9.22799	3.57529e-1	3.29928		Acrolein
6.103	MF	22.21833	1.48811e-1	3.30633		Acetone
6.522	MM	7.18398	7.68181e-1	5.51860		Dichloromethane
6.884	BB	19.63965	1.33713e-1	2.62608		Hexane
8.368	BB	33.96746	1.03814e-1	3.52629		Benzene
8.842	BV	11.81785	5.01008e-1	5.92083		Trichloroethylene
9.828	MM	39.49500	8.61211e-2	3.40135		Toluene
10.255	MM	11.81188	5.49216e-1	6.48727		Tetrachloroethylene
10.676	MM	12.21259	7.01898e-1	8.57200		1,2-Dibromoethane

Totals : 49.45790

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*** End of Report ***

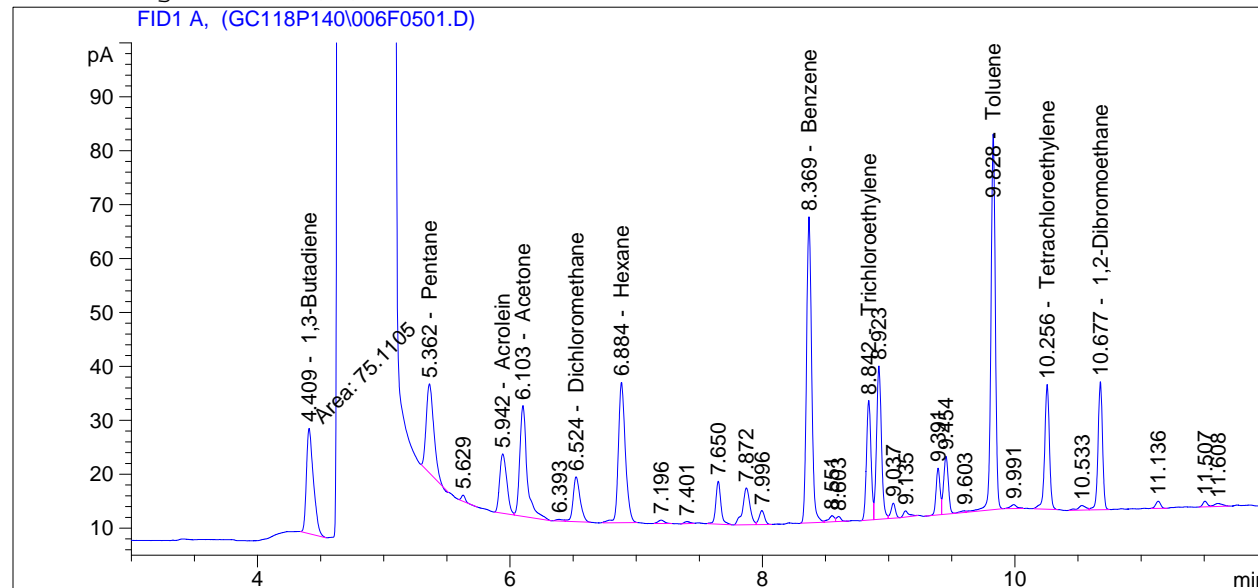
Sample Name: gc118p137 #3ss

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=====
Acq. Operator   : JBB                      Seq. Line :    5
Acq. Instrument : Veronica                 Location  : Vial 6
Injection Date  : 04-Aug-11, 00:05:54      Inj       :    1
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
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                        External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

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Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	75.11055	1.50126e-1	11.27605		1,3-Butadiene
5.362	BB	68.55032	1.76407e-1	12.09275		Pentane
5.942	BV	43.16833	3.43618e-1	14.83342		Acrolein
6.103	VB	82.69247	2.02432e-1	16.73964		Acetone
6.524	VB	31.78969	8.41982e-1	26.76635		Dichloromethane
6.884	BB	100.40309	1.31648e-1	13.21783		Hexane
8.369	BB	158.65086	1.08896e-1	17.27647		Benzene
8.842	BV	55.50272	5.18510e-1	28.77869		Trichloroethylene
9.828	VB	167.92763	1.04170e-1	17.49304		Toluene
10.256	BB	60.22330	5.67315e-1	34.16559		Tetrachloroethylene
10.677	VB	58.67445	7.46092e-1	43.77657		1,2-Dibromoethane

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Totals :                               236.41639
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*** End of Report ***
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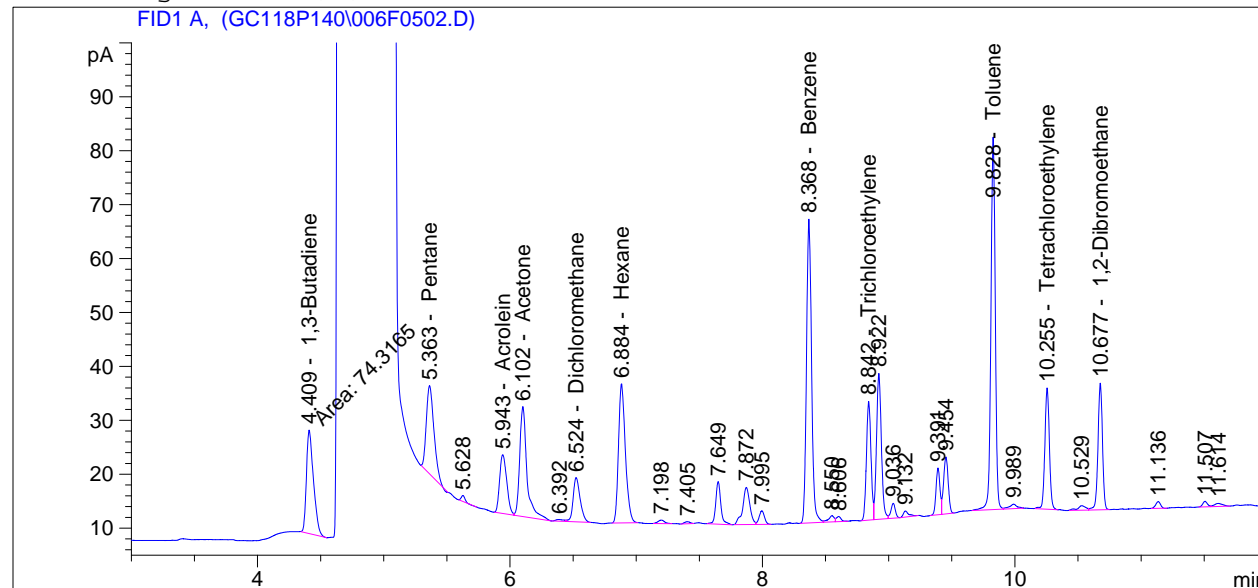
Sample Name: gc118p137 #3ss

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=====
Acq. Operator   : JBB                               Seq. Line :    5
Acq. Instrument : Veronica                           Location  : Vial 6
Injection Date  : 04-Aug-11, 00:23:42                Inj       :    2
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
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                        External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	74.31646	1.50125e-1	11.15677		1,3-Butadiene
5.363	BB	68.42970	1.76428e-1	12.07291		Pentane
5.943	BV	42.64298	3.43665e-1	14.65489		Acrolein
6.102	VB	81.58979	2.02166e-1	16.49470		Acetone
6.524	VB	31.62698	8.41871e-1	26.62584		Dichloromethane
6.884	BB	97.50893	1.31663e-1	12.83828		Hexane
8.368	BB	157.42126	1.08885e-1	17.14087		Benzene
8.842	BV	55.07460	5.18473e-1	28.55468		Trichloroethylene
9.828	BV	166.22408	1.04113e-1	17.30612		Toluene
10.255	BB	56.42928	5.67018e-1	31.99643		Tetrachloroethylene
10.677	VB	58.22442	7.46003e-1	43.43557		1,2-Dibromoethane

```
Totals :                               232.27705
```

```

=====
*** End of Report ***
=====

```

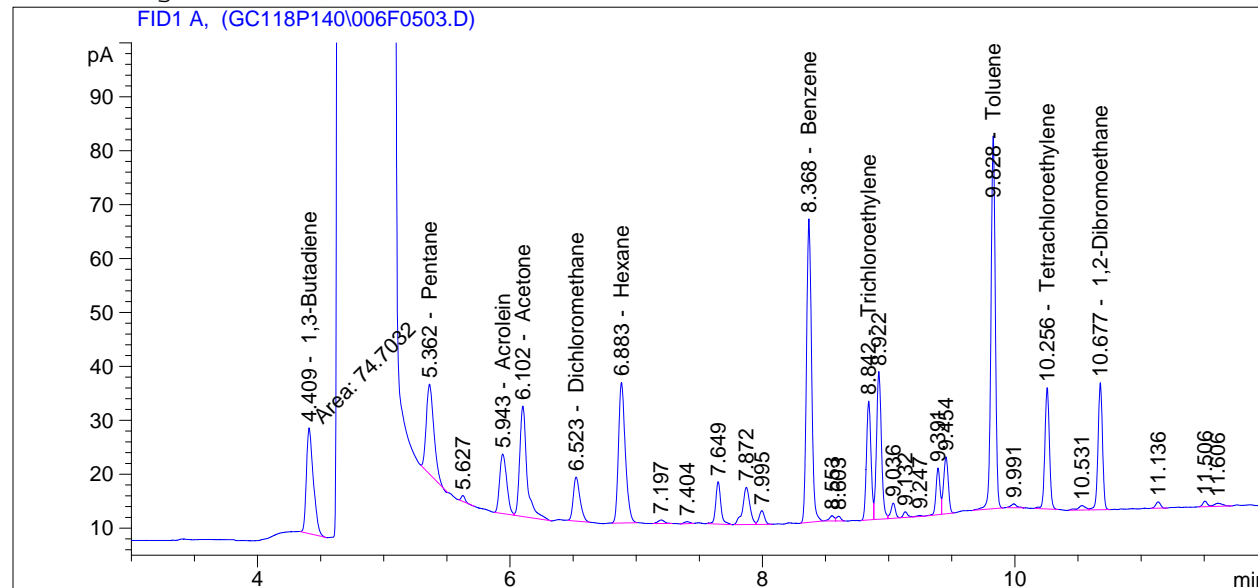
Sample Name: gc118p137 #3ss

```

=====
Acq. Operator   : JBB                      Seq. Line :    5
Acq. Instrument : Veronica                 Location  : Vial 6
Injection Date  : 04-Aug-11, 00:41:27      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/3/2011 8:27:48 PM
Analysis Method  : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



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=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	74.70323	1.50126e-1	11.21487		1,3-Butadiene
5.362	BB	69.28531	1.76281e-1	12.21369		Pentane
5.943	BV	42.94404	3.43638e-1	14.75720		Acrolein
6.102	VB	82.21667	2.02318e-1	16.63395		Acetone
6.523	BB	30.08709	8.40763e-1	25.29610		Dichloromethane
6.883	BB	97.71064	1.31662e-1	12.86473		Hexane
8.368	BB	156.37598	1.08876e-1	17.02559		Benzene
8.842	BV	55.04536	5.18470e-1	28.53938		Trichloroethylene
9.828	BB	165.10388	1.04075e-1	17.18321		Toluene
10.256	BB	56.44112	5.67019e-1	32.00320		Tetrachloroethylene
10.677	VB	58.03527	7.45964e-1	43.29225		1,2-Dibromoethane

```
Totals :                               231.02417
```

```

=====
*** End of Report ***
=====

```

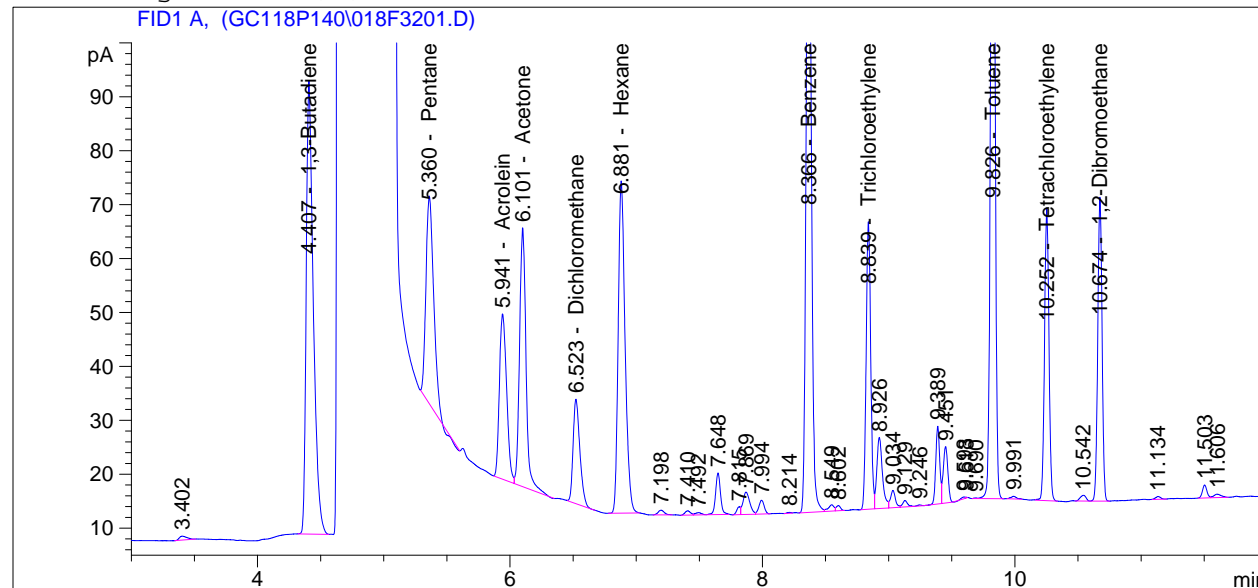
Sample Name: gc118p137 #4

```

=====
Acq. Operator   : JBB                      Seq. Line :   32
Acq. Instrument : Veronica                 Location  : Vial 18
Injection Date  : 06-Aug-11, 08:33:12      Inj       :    1
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/5/2011 2:13:15 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



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=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.407	BB	328.76965	1.50184e-1	49.37600		1,3-Butadiene
5.360	BV	162.43253	1.69546e-1	27.53972		Pentane
5.941	VV	121.99685	3.41174e-1	41.62219		Acrolein
6.101	VB	171.27374	2.12621e-1	36.41647		Acetone
6.523	BB	72.09087	8.54027e-1	61.56758		Dichloromethane
6.881	BB	233.89307	1.31361e-1	30.72443		Hexane
8.366	BB	379.69095	1.09702e-1	41.65294		Benzene
8.839	BV	133.82567	5.21281e-1	69.76073		Trichloroethylene
9.826	VB	384.97369	1.07299e-1	41.30743		Toluene
10.252	BB	133.33574	5.69737e-1	75.96624		Tetrachloroethylene
10.674	VB	134.43591	7.52639e-1	101.18170		1,2-Dibromoethane

```
Totals :                               577.11542
```

```

=====
*** End of Report ***
=====

```

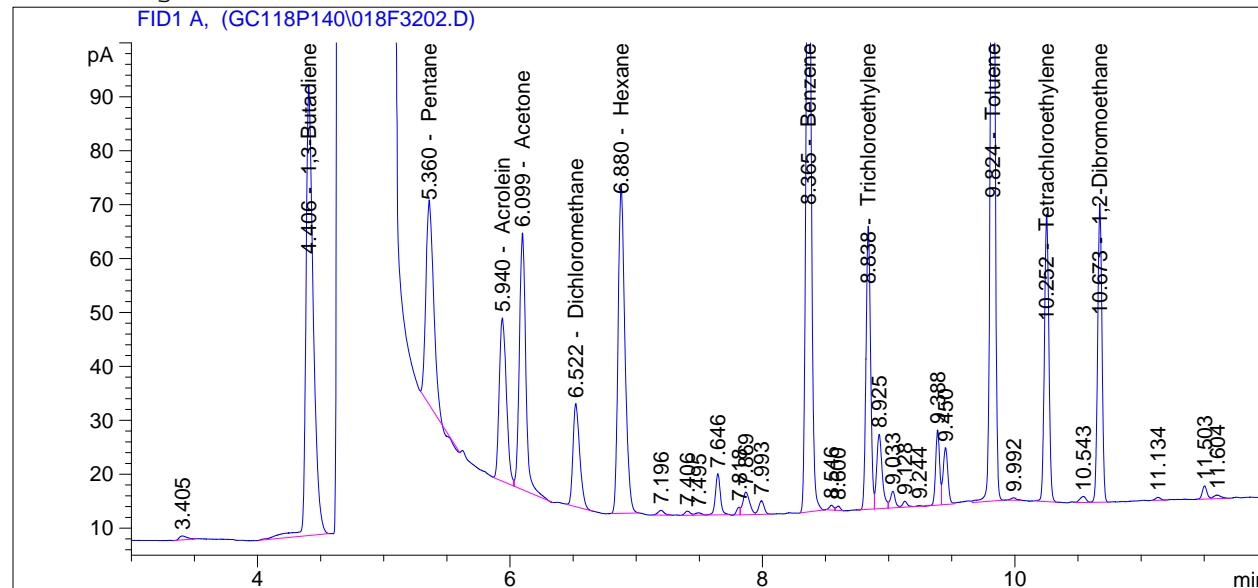

Sample Name: gc118p137 #4

```

=====
Acq. Operator   : JBB                      Seq. Line :   32
Acq. Instrument : Veronica                 Location  : Vial 18
Injection Date  : 06-Aug-11, 08:51:00      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/5/2011 2:13:15 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



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=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.406	BB	340.36954	1.50185e-1	51.11832		1,3-Butadiene
5.360	BV	158.57910	1.69667e-1	26.90569		Pentane
5.940	VV	119.54715	3.41202e-1	40.78969		Acrolein
6.099	VB	168.63133	2.12472e-1	35.82951		Acetone
6.522	BB	70.89097	8.53867e-1	60.53143		Dichloromethane
6.880	BB	230.13512	1.31365e-1	30.23159		Hexane
8.365	BB	371.44177	1.09689e-1	40.74321		Benzene
8.838	BV	131.32126	5.21243e-1	68.45032		Trichloroethylene
9.824	BB	381.79694	1.07279e-1	40.95887		Toluene
10.252	BB	131.24866	5.69705e-1	74.77299		Tetrachloroethylene
10.673	VB	132.35098	7.52559e-1	99.60193		1,2-Dibromoethane

```
Totals :                               569.93355
```

```

=====
*** End of Report ***
=====

```

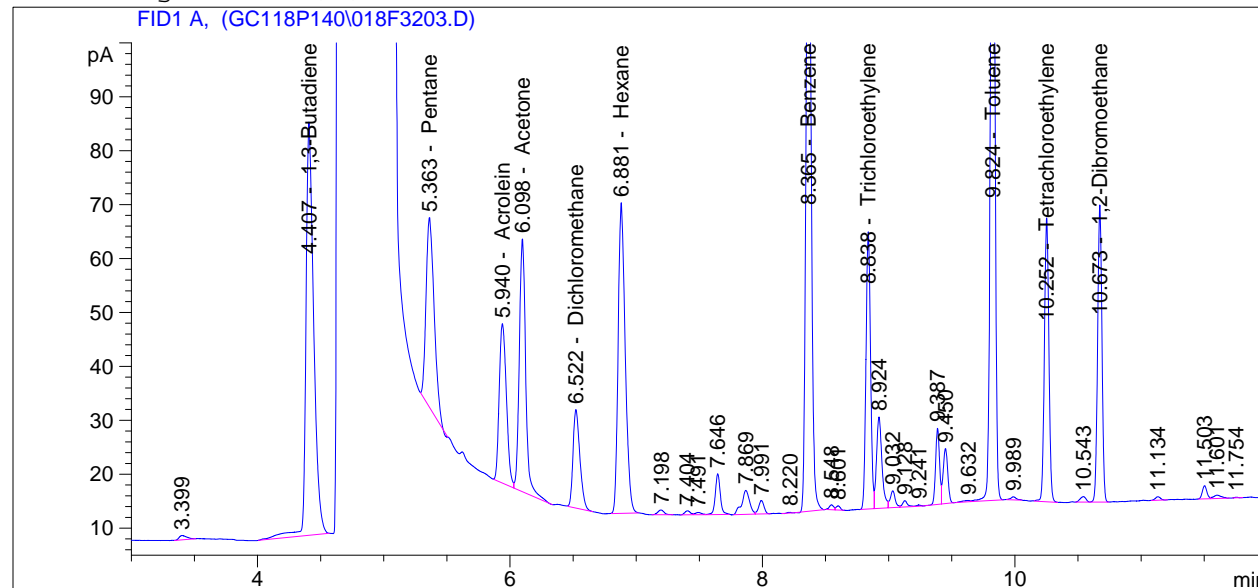
Sample Name: gc118p137 #4

```

=====
Acq. Operator   : JBB                      Seq. Line :   32
Acq. Instrument : Veronica                 Location  : Vial 18
Injection Date  : 06-Aug-11, 09:08:47      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/5/2011 2:13:15 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



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=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.407	BB	329.58020	1.50184e-1	49.49774		1,3-Butadiene
5.363	BB	156.57814	1.69733e-1	26.57646		Pentane
5.940	BV	116.75988	3.41234e-1	39.84248		Acrolein
6.098	VB	165.36565	2.12282e-1	35.10409		Acetone
6.522	BB	69.11265	8.53618e-1	58.99580		Dichloromethane
6.881	BB	224.22137	1.31370e-1	29.45603		Hexane
8.365	VB	364.28815	1.09678e-1	39.95430		Benzene
8.838	BV	129.10094	5.21209e-1	67.28855		Trichloroethylene
9.824	VB	375.68359	1.07239e-1	40.28812		Toluene
10.252	BB	130.21849	5.69689e-1	74.18401		Tetrachloroethylene
10.673	VB	131.61671	7.52530e-1	99.04557		1,2-Dibromoethane

```
Totals :                               560.23315
```

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*** End of Report ***
=====

```

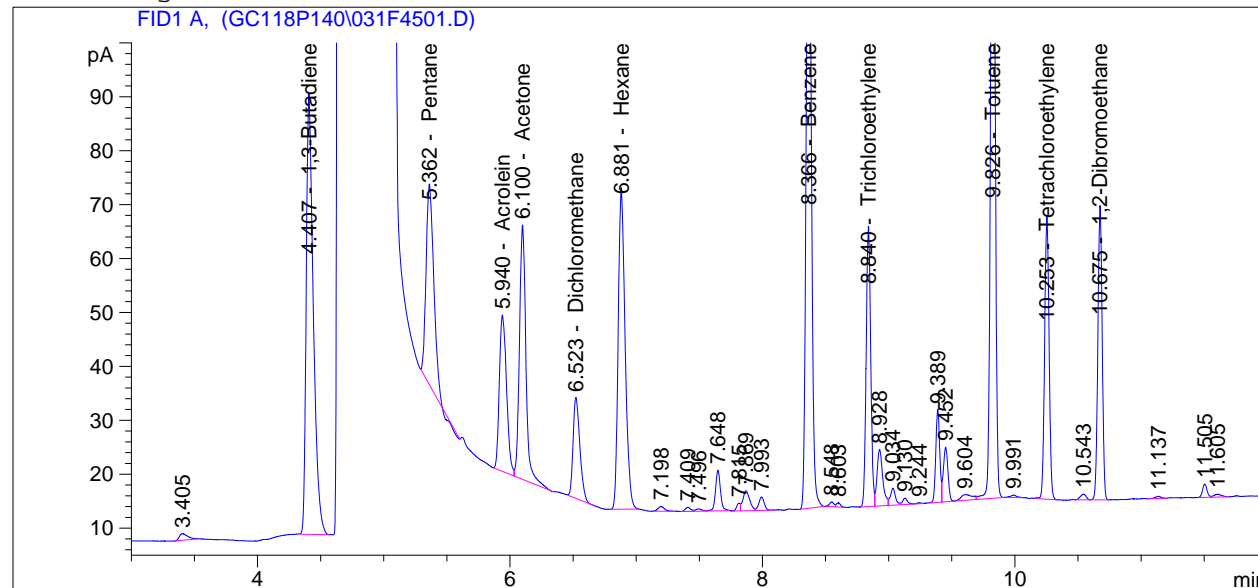
Sample Name: gc118p137 #4

```

=====
Acq. Operator   : JBB                               Seq. Line :   45
Acq. Instrument : Veronica                           Location  : Vial 31
Injection Date  : 07-Aug-11, 03:58:39                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



External Standard Report

```

=====
Sorted By      : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.407	BB	319.82104	1.50184e-1	48.03191		1,3-Butadiene
5.362	BV	154.64316	1.69798e-1	26.25809		Pentane
5.940	VV	115.07146	3.41255e-1	39.26869		Acrolein
6.100	VB	168.54343	2.12467e-1	35.80998		Acetone
6.523	BB	69.77586	8.53712e-1	59.56850		Dichloromethane
6.881	BB	227.20953	1.31367e-1	29.84791		Hexane
8.366	BB	366.97281	1.09682e-1	40.25037		Benzene
8.840	BV	130.34361	5.21228e-1	67.93877		Trichloroethylene
9.826	VB	375.51675	1.07238e-1	40.26981		Toluene
10.253	BB	129.52890	5.69678e-1	73.78975		Tetrachloroethylene
10.675	VB	130.38617	7.52481e-1	98.11317		1,2-Dibromoethane

Totals : 559.14695

*** End of Report ***

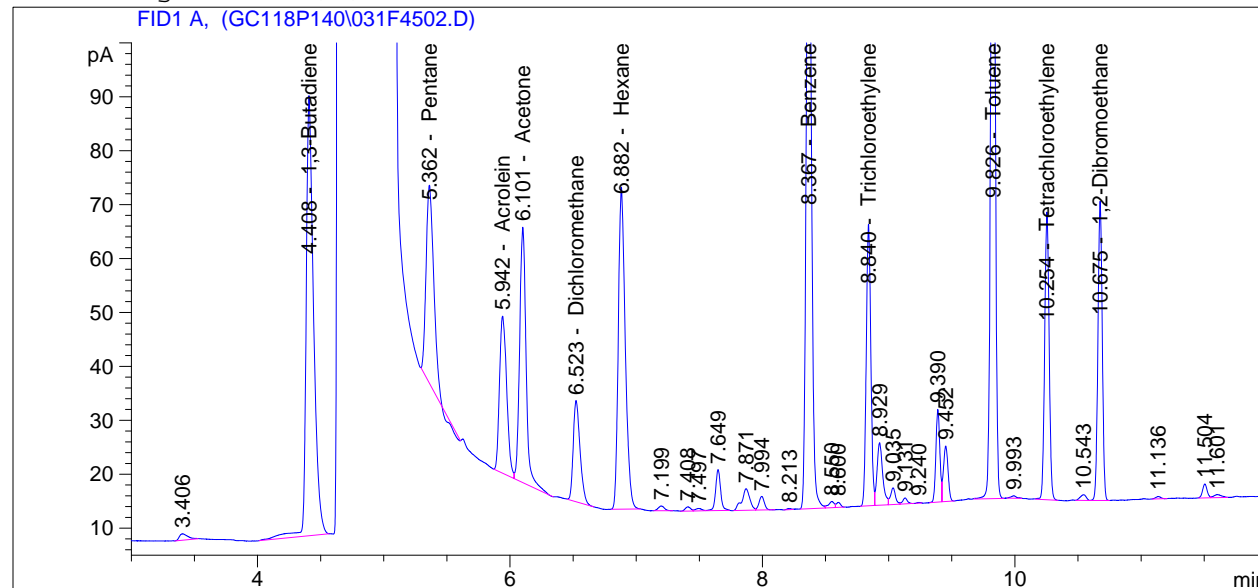
Sample Name: gc118p137 #4

```

=====
Acq. Operator   : JBB                      Seq. Line :   45
Acq. Instrument : Veronica                 Location  : Vial 31
Injection Date  : 07-Aug-11, 04:16:22      Inj       :    2
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



External Standard Report

```

=====
Sorted By      : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

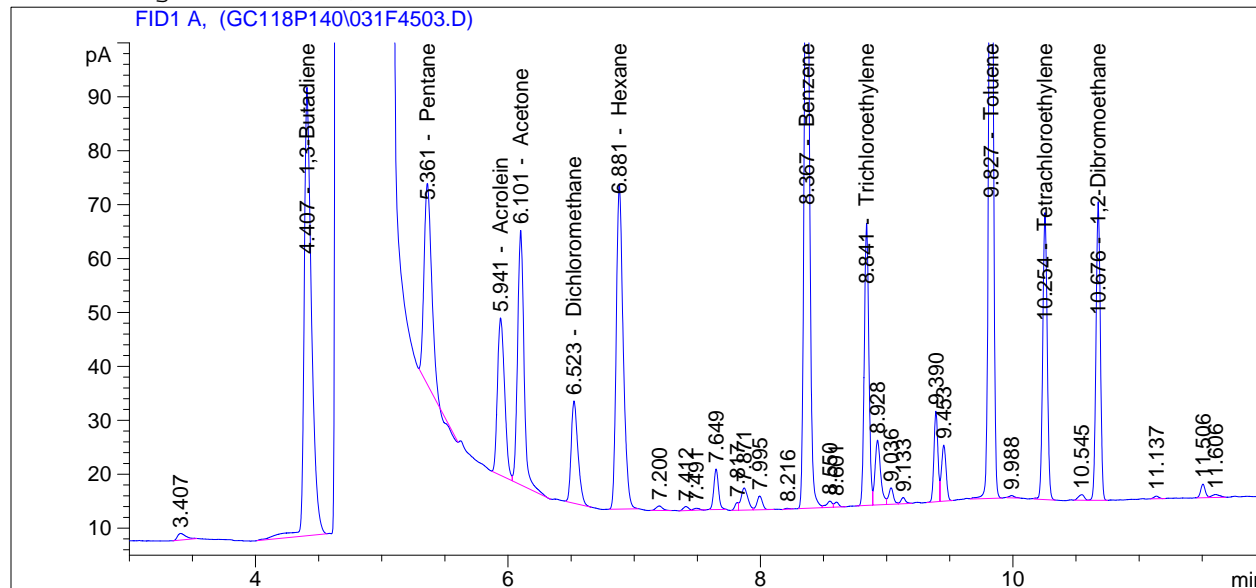
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	BB	336.97702	1.50185e-1	50.60876		1,3-Butadiene
5.362	BB	150.35803	1.69948e-1	25.55303		Pentane
5.942	VV	115.62033	3.41248e-1	39.45522		Acrolein
6.101	VB	169.19283	2.12504e-1	35.95423		Acetone
6.523	BB	70.57950	8.53824e-1	60.26247		Dichloromethane
6.882	BB	229.06569	1.31366e-1	30.09134		Hexane
8.367	BB	372.89200	1.09692e-1	40.90314		Benzene
8.840	BV	131.22165	5.21242e-1	68.39820		Trichloroethylene
9.826	BB	378.46243	1.07258e-1	40.59301		Toluene
10.254	BB	131.51465	5.69709e-1	74.92506		Tetrachloroethylene
10.675	VB	132.61778	7.52569e-1	99.80409		1,2-Dibromoethane

Totals : 566.54855

*** End of Report ***

=====

Acq. Operator	: JBB	Seq. Line	: 45
Acq. Instrument	: Veronica	Location	: Vial 31
Injection Date	: 07-Aug-11, 04:34:06	Inj	: 3
		Inj Volume	: 0.2 µl
Sequence File	: C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S		
Acq. Method	: C:\GC2011Q3\VERONICA\METHODS\GC118P140.M		
Last changed	: 8/6/2011 5:52:32 PM		
Analysis Method	: C:\GC2011Q3\VERONICA\METHODS\GC118P140.M		
Last changed	: 8/8/2011 4:47:00 PM		



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.407	BB	338.97528	1.50185e-1	50.90890	--	1,3-Butadiene
5.361	BV	151.84717	1.69895e-1	25.79805		Pentane
5.941	VV	114.96237	3.41256e-1	39.23162		Acrolein
6.101	VB	167.06340	2.12382e-1	35.48122		Acetone
6.523	BB	70.70301	8.53841e-1	60.36913		Dichloromethane
6.881	BB	229.26949	1.31365e-1	30.11807		Hexane
8.367	BV	372.48227	1.09691e-1	40.85796		Benzene
8.841	BV	131.10507	5.21240e-1	68.33720		Trichloroethylene
9.827	BB	377.85132	1.07254e-1	40.52596		Toluene
10.254	BB	131.32066	5.69706e-1	74.81416		Tetrachloroethylene
10.676	VB	132.29642	7.52557e-1	99.56059		1,2-Dibromoethane

Totals : 566.00283

=====

*** End of Report ***

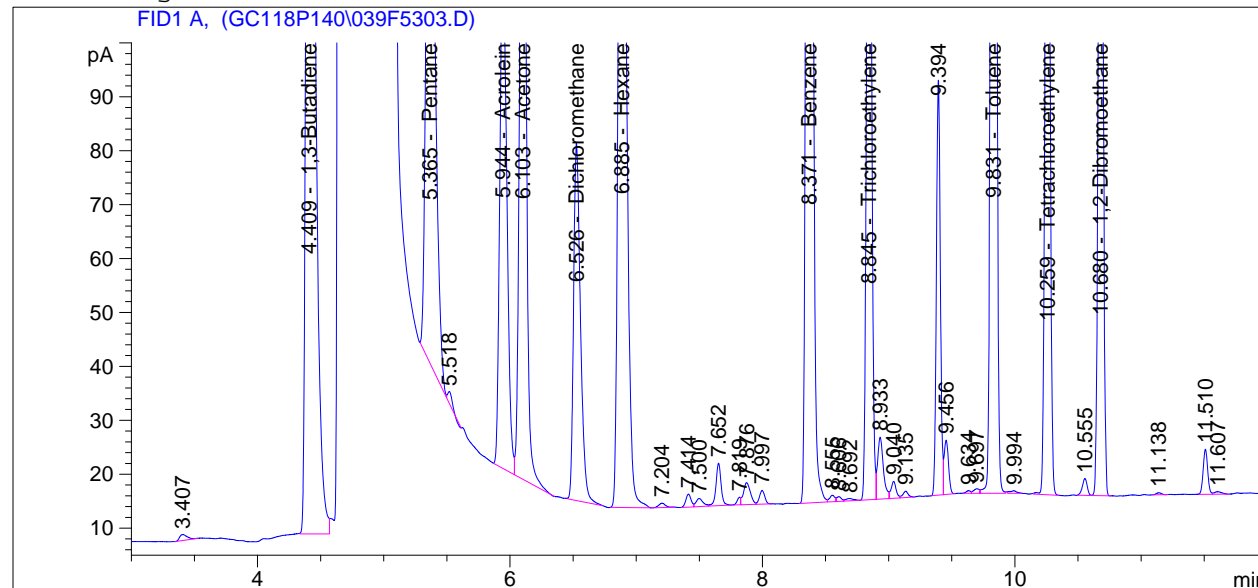
Sample Name: gc116p137 #5

```

=====
Acq. Operator   : JBB                               Seq. Line :   53
Acq. Instrument : Veronica                           Location  : Vial 39
Injection Date  : 07-Aug-11, 16:37:33                Inj       :    3
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



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=====
External Standard Report
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```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	BBA	1210.44641	1.50197e-1	181.80508		1,3-Butadiene
5.365	BV	624.32867	1.65839e-1	103.53805		Pentane
5.944	VV	363.21085	3.40285e-1	123.59537		Acrolein
6.103	VB	542.74976	2.19132e-1	118.93359		Acetone
6.526	BB	251.26018	8.60803e-1	216.28548		Dichloromethane
6.885	BB	820.44629	1.31207e-1	107.64818		Hexane
8.371	BV	1294.99207	1.10111e-1	142.59304		Benzene
8.445	VV	458.59564	5.22671e-1	239.69479		Trichloroethylene
9.831	VB	1287.58435	1.08997e-1	140.34228		Toluene
10.259	BB	454.39313	5.71146e-1	259.52472		Tetrachloroethylene
10.680	VB	457.07925	7.56218e-1	345.65145		1,2-Dibromoethane

```
Totals :                               1979.61204
```

```

=====
*** End of Report ***
=====

```

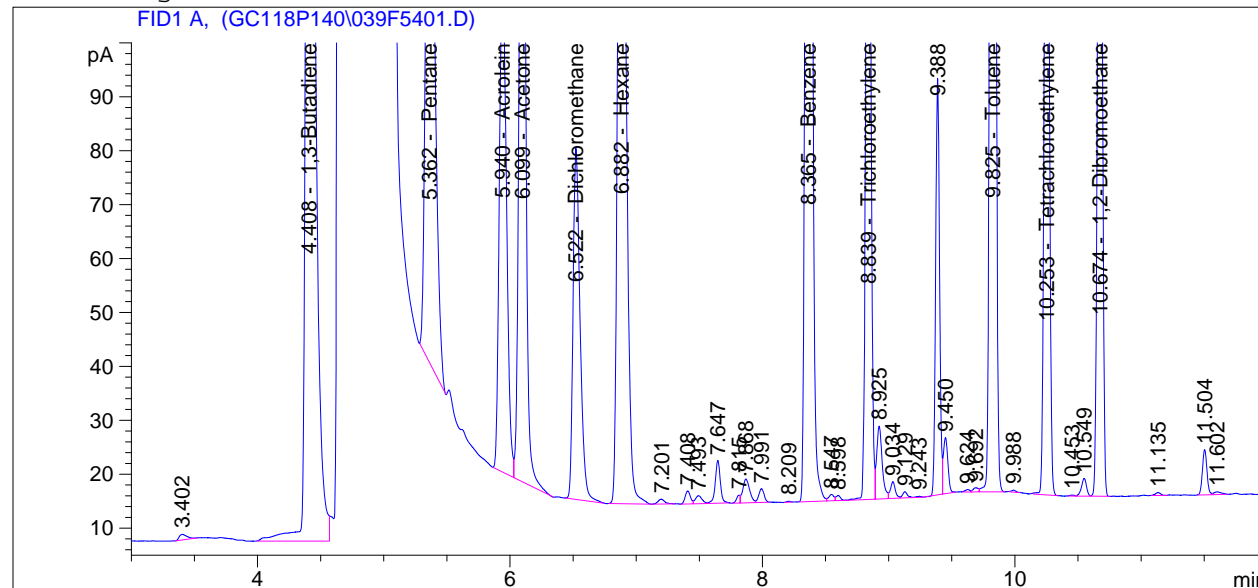
Sample Name: gc116p137 #5

```

=====
Acq. Operator   : JBB                               Seq. Line :   54
Acq. Instrument : Veronica                           Location  : Vial 39
Injection Date  : 07-Aug-11, 17:31:18                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



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=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	BBA	1249.15820	1.50197e-1	187.61965		1,3-Butadiene
5.362	BV	614.31586	1.65860e-1	101.89059		Pentane
5.940	VV	363.70468	3.40285e-1	123.76319		Acrolein
6.099	VB	546.82672	2.19154e-1	119.83922		Acetone
6.522	BB	252.43402	8.60816e-1	217.29913		Dichloromethane
6.882	BB	819.67859	1.31207e-1	107.54750		Hexane
8.365	BB	1299.79504	1.10112e-1	143.12272		Benzene
8.839	VV	461.89297	5.22675e-1	241.42010		Trichloroethylene
9.825	VB	1296.62573	1.09002e-1	141.33430		Toluene
10.253	BB	458.04913	5.71150e-1	261.61497		Tetrachloroethylene
10.674	VB	462.38330	7.56235e-1	349.67037		1,2-Dibromoethane

```
Totals :                               1995.12175
```

```

=====
*** End of Report ***
=====

```

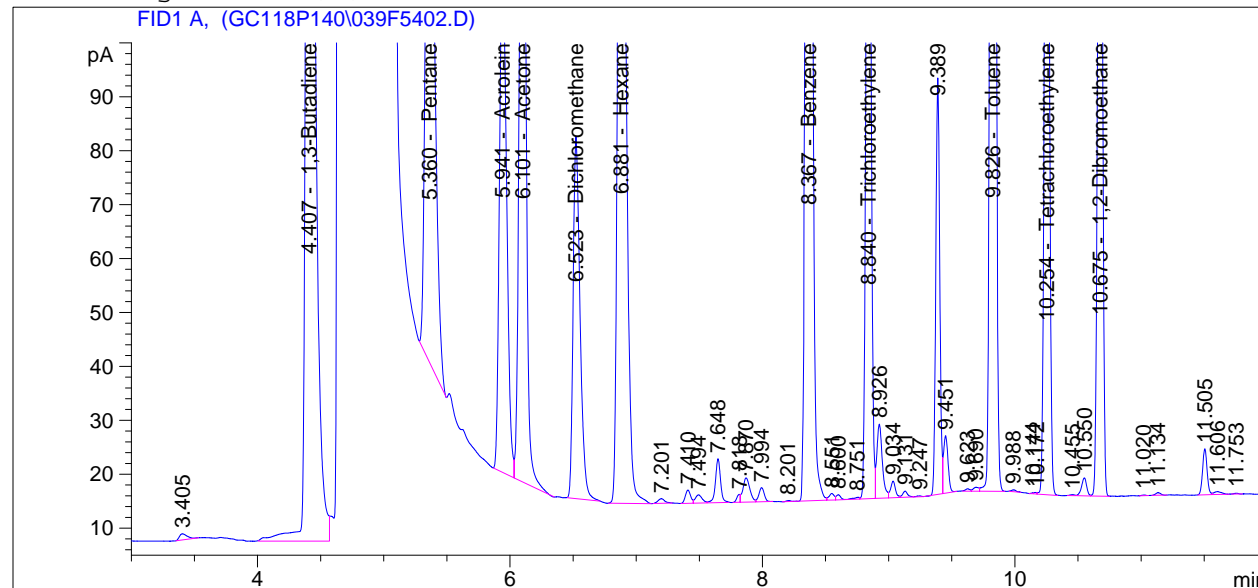
Sample Name: gc116p137 #5

```

=====
Acq. Operator   : JBB                               Seq. Line :   54
Acq. Instrument : Veronica                           Location  : Vial 39
Injection Date  : 07-Aug-11, 17:49:12                Inj       :    2
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



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=====
External Standard Report
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```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.407	BBA	1281.11743	1.50197e-1	192.41997		1,3-Butadiene
5.360	BV	636.75824	1.65814e-1	105.58316		Pentane
5.941	VV	374.01251	3.40272e-1	127.26617		Acrolein
6.101	VB	555.91901	2.19203e-1	121.85892		Acetone
6.523	BB	256.32034	8.60857e-1	220.65508		Dichloromethane
6.881	BB	839.33929	1.31205e-1	110.12591		Hexane
8.367	BB	1326.20190	1.10115e-1	146.03489		Benzene
8.840	VV	469.56604	5.22685e-1	245.43499		Trichloroethylene
9.826	VB	1319.53064	1.09014e-1	143.84744		Toluene
10.254	VV	466.24844	5.71161e-1	266.30277		Tetrachloroethylene
10.675	VV	470.35065	7.56260e-1	355.70730		1,2-Dibromoethane

```
Totals :                               2035.23659
```

```

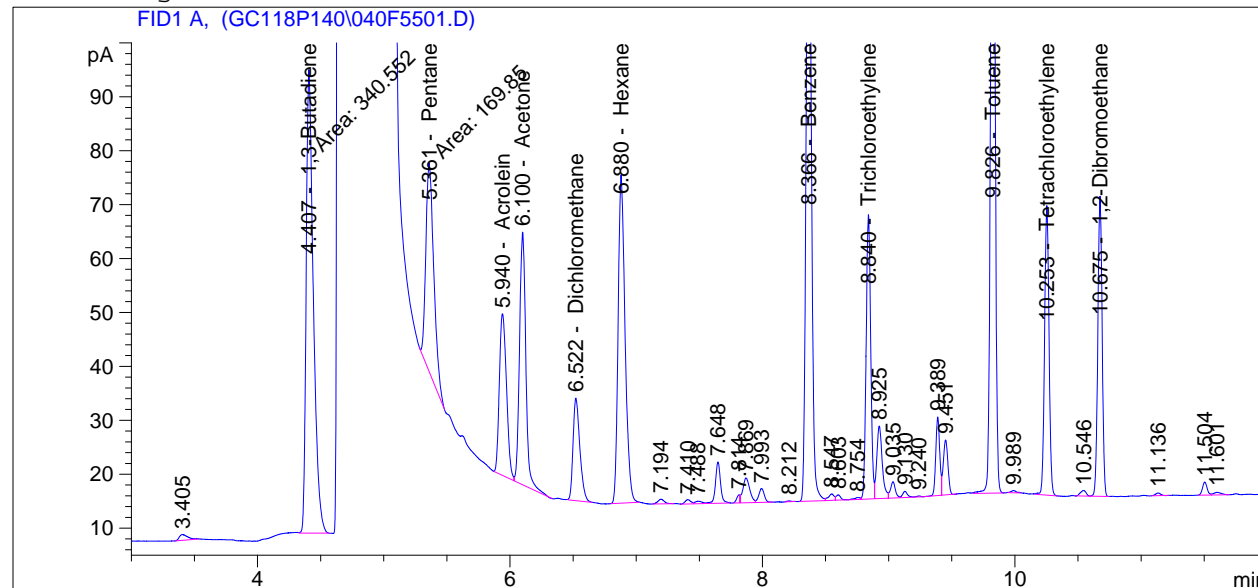
=====
*** End of Report ***
=====

```


Sample Name: gc116p137 #4

```
=====
Acq. Operator   : JBB                               Seq. Line :   55
Acq. Instrument : Veronica                           Location  : Vial 40
Injection Date  : 07-Aug-11, 18:07:06                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.407	MM	340.55222	1.50185e-1	51.14576		1,3-Butadiene
5.361	MM	169.85022	1.69327e-1	28.76019		Pentane
5.940	VV	117.65128	3.41224e-1	40.14541		Acrolein
6.100	VB	162.67693	2.12119e-1	34.50684		Acetone
6.522	BB	71.09290	8.53894e-1	60.70580		Dichloromethane
6.880	BB	232.46857	1.31362e-1	30.53761		Hexane
8.366	BB	375.03680	1.09695e-1	41.13967		Benzene
8.840	VV	132.52448	5.21261e-1	69.07989		Trichloroethylene
9.826	BB	378.47531	1.07258e-1	40.59442		Toluene
10.253	BB	132.42249	5.69723e-1	75.44410		Tetrachloroethylene
10.675	VB	132.92320	7.52581e-1	100.03551		1,2-Dibromoethane

```
Totals :                               572.09520
```

```
=====
*** End of Report ***
=====
```

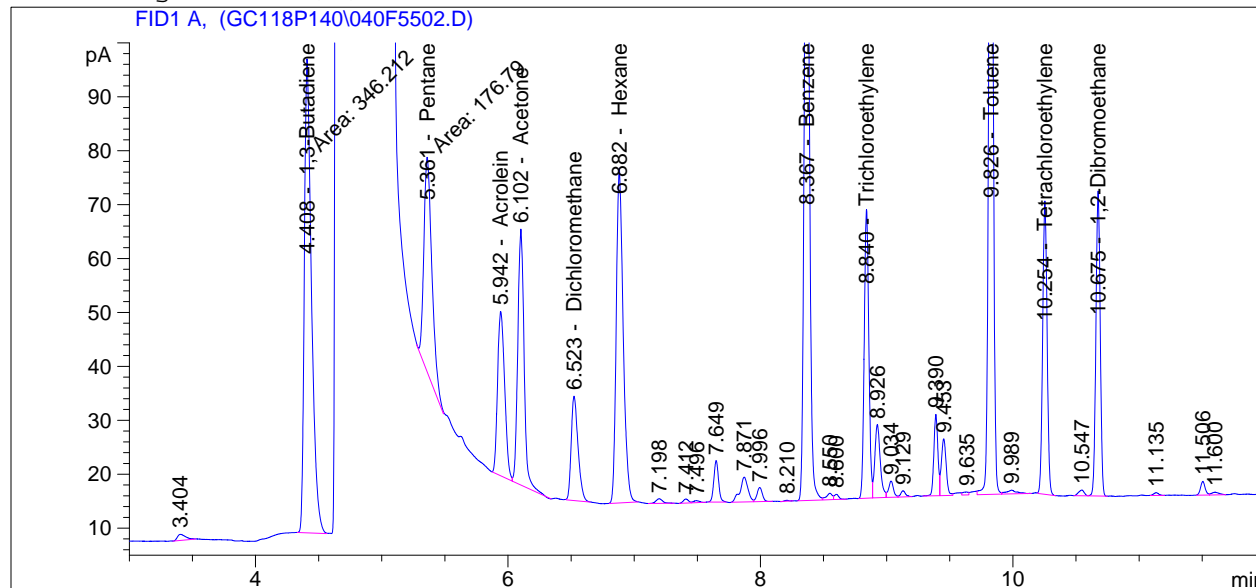
Sample Name: gc116p137 #4

```

=====
Acq. Operator   : JBB                               Seq. Line :   55
Acq. Instrument : Veronica                           Location  : Vial 40
Injection Date  : 07-Aug-11, 18:25:17                Inj       :    2
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.408	MM	346.21158	1.50185e-1	51.99580		1,3-Butadiene
5.361	MM	176.79001	1.69139e-1	29.90203		Pentane
5.942	VV	119.05019	3.41207e-1	40.62081		Acrolein
6.102	VB	164.47255	2.12228e-1	34.90570		Acetone
6.523	BB	72.43600	8.54073e-1	61.86561		Dichloromethane
6.882	BB	237.08691	1.31358e-1	31.14329		Hexane
8.367	BB	381.10651	1.09704e-1	41.80904		Benzene
8.840	BV	134.30956	5.21288e-1	70.01393		Trichloroethylene
9.826	BV	387.93839	1.07318e-1	41.63272		Toluene
10.254	BB	133.60457	5.69741e-1	76.11994		Tetrachloroethylene
10.675	VB	135.18585	7.52667e-1	101.74994		1,2-Dibromoethane

```
Totals :                               581.75880
```

```

=====
*** End of Report ***
=====

```

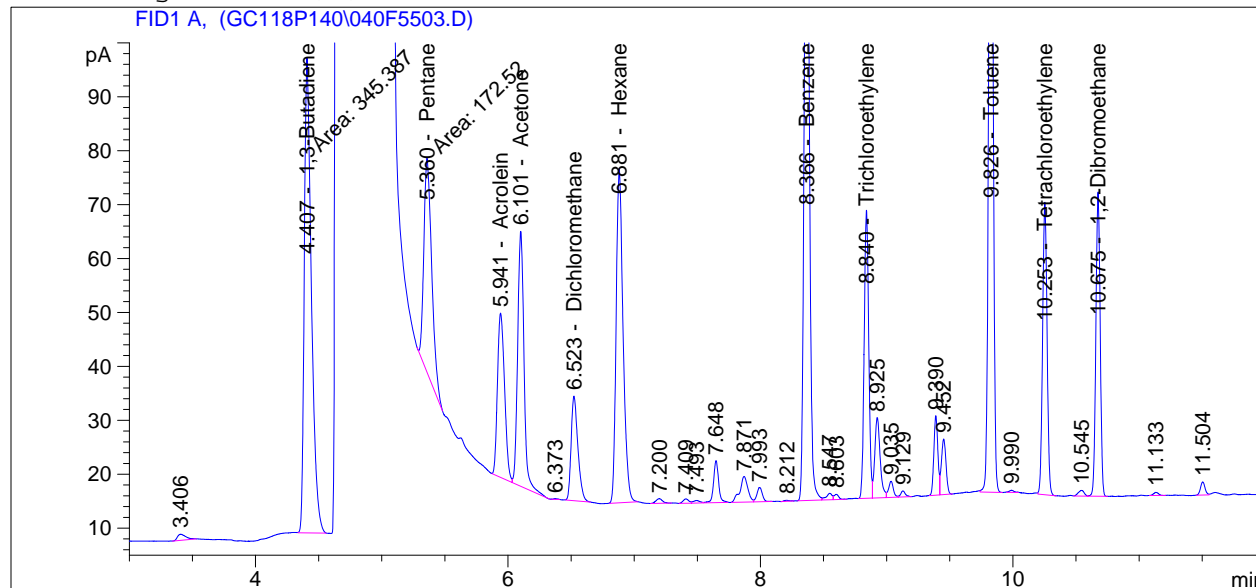
Sample Name: gc116p137 #4

```

=====
Acq. Operator   : JBB                               Seq. Line :   55
Acq. Instrument : Veronica                           Location  : Vial 40
Injection Date  : 07-Aug-11, 18:43:10                Inj       :    3
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By      :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.407	MM	345.38733	1.50185e-1	51.87200		1,3-Butadiene
5.360	MM	172.51982	1.69253e-1	29.19943		Pentane
5.941	VV	118.84547	3.41210e-1	40.55123		Acrolein
6.101	VB	164.67970	2.12241e-1	34.95172		Acetone
6.523	BB	72.24603	8.54048e-1	61.70156		Dichloromethane
6.881	BB	236.01823	1.31359e-1	31.00313		Hexane
8.366	BV	379.73434	1.09702e-1	41.65772		Benzene
8.840	BV	133.78088	5.21280e-1	69.73730		Trichloroethylene
9.826	BB	381.23514	1.07276e-1	40.89723		Toluene
10.253	BB	133.35751	5.69737e-1	75.97869		Tetrachloroethylene
10.675	VB	134.61635	7.52646e-1	101.31842		1,2-Dibromoethane

```
Totals :                               578.86844
```

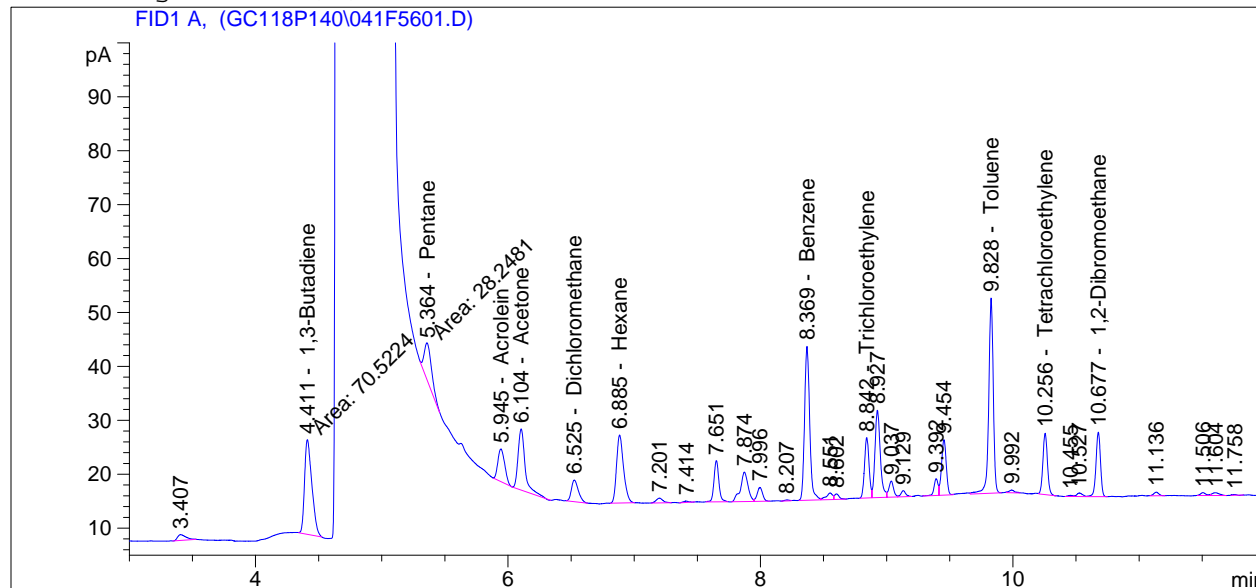
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : JBB                               Seq. Line :   56
Acq. Instrument : Veronica                           Location  : Vial 41
Injection Date  : 07-Aug-11, 19:36:52                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.411	MM	70.52242	1.50121e-1	10.58690		1,3-Butadiene
5.364	MM	28.24814	1.93344e-1	5.46161		Pentane
5.945	VV	22.68368	3.47034e-1	7.87200		Acrolein
6.104	VV	43.62578	1.84791e-1	8.06164		Acetone
6.525	BB	15.41556	8.19095e-1	12.62681		Dichloromethane
6.885	BB	48.48796	1.32185e-1	6.40940		Hexane
8.369	BB	80.96056	1.07567e-1	8.70872		Benzene
8.842	BV	28.13053	5.13903e-1	14.45635		Trichloroethylene
9.828	BB	90.47380	9.94185e-2	8.99477		Toluene
10.256	BB	28.33025	5.62344e-1	15.93134		Tetrachloroethylene
10.677	VB	29.58226	7.34668e-1	21.73315		1,2-Dibromoethane

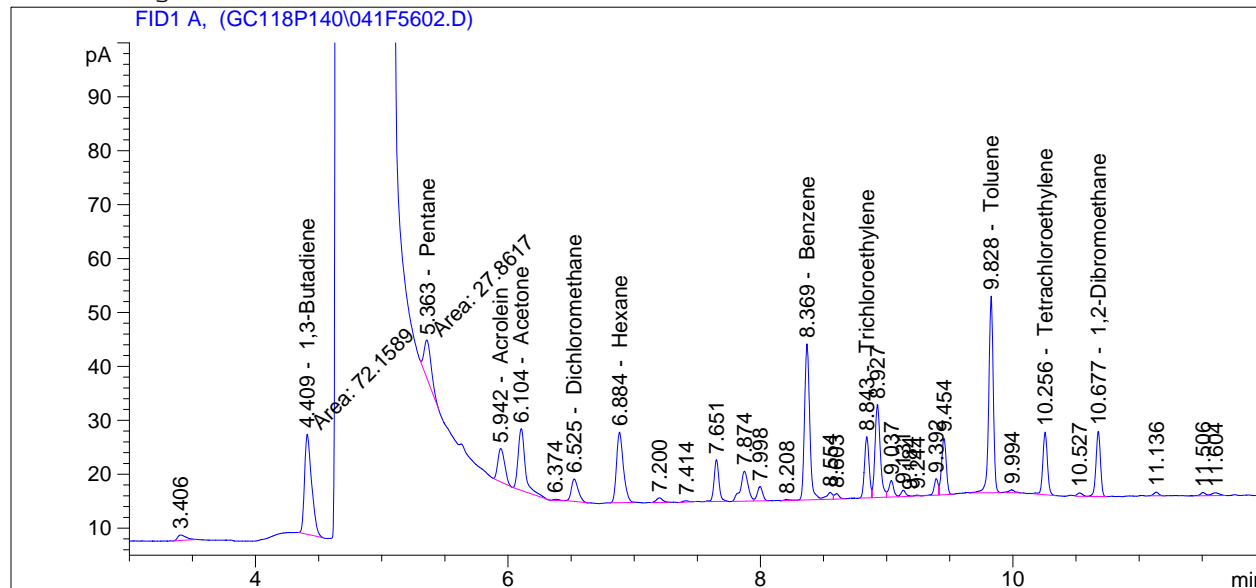
Totals : 120.84269

*** End of Report ***

=====

Acq. Operator	: JBB	Seq. Line	: 56
Acq. Instrument	: Veronica	Location	: Vial 41
Injection Date	: 07-Aug-11, 19:54:44	Inj	: 2
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	72.15893	1.50123e-1	10.83271		1,3-Butadiene
5.363	MM	27.86174	1.93744e-1	5.39804		Pentane
5.942	VV	23.31966	3.46838e-1	8.08813		Acrolein
6.104	VV	44.47350	1.85502e-1	8.24994		Acetone
6.525	BB	15.57475	8.19549e-1	12.76428		Dichloromethane
6.884	BB	49.10918	1.32172e-1	6.49087		Hexane
8.369	BB	82.20397	1.07608e-1	8.84585		Benzene
8.843	BV	28.64065	5.14069e-1	14.72327		Trichloroethylene
9.828	VB	89.95525	9.93591e-2	8.93787		Toluene
10.256	BB	29.54892	5.62731e-1	16.62809		Tetrachloroethylene
10.677	BB	29.56568	7.34655e-1	21.72059		1,2-Dibromoethane

Totals : 122.67963

*** End of Report ***

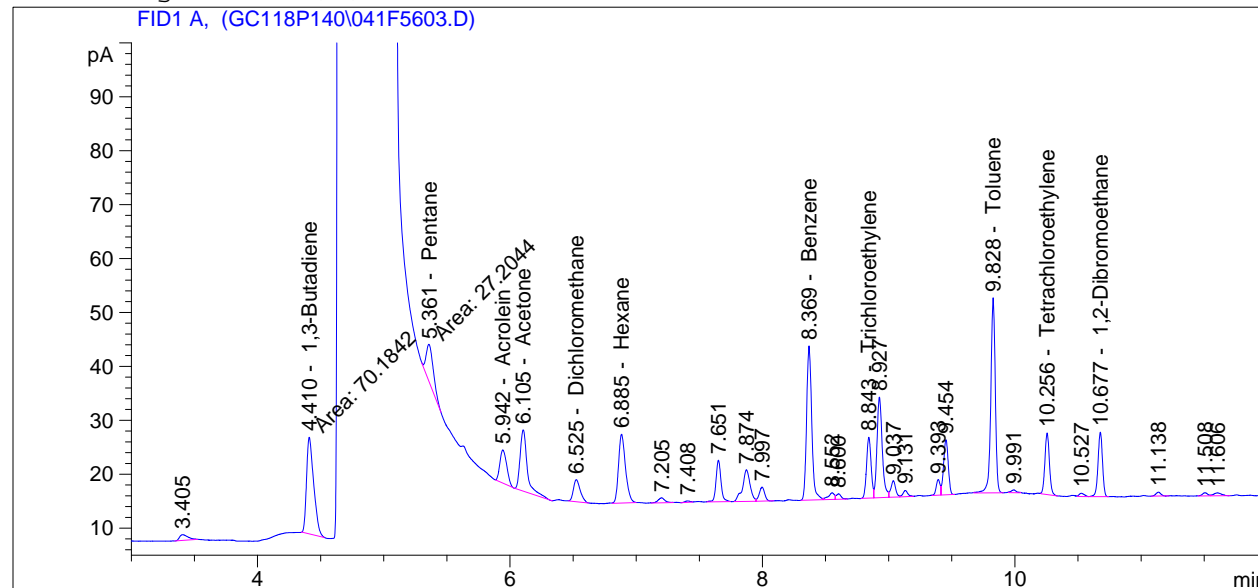
Sample Name: gc116p137 #3

```

=====
Acq. Operator   : JBB                               Seq. Line :   56
Acq. Instrument : Veronica                           Location  : Vial 41
Injection Date  : 07-Aug-11, 20:12:35                Inj       :    3
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.410	MM	70.18423	1.50121e-1	10.53611		1,3-Butadiene
5.361	MM	27.20439	1.94449e-1	5.28988		Pentane
5.942	VV	23.11012	3.46901e-1	8.01692		Acrolein
6.105	VV	44.54469	1.85561e-1	8.26575		Acetone
6.525	BB	15.42625	8.19126e-1	12.63604		Dichloromethane
6.885	BB	48.84595	1.32178e-1	6.45635		Hexane
8.369	BB	81.08231	1.07572e-1	8.72215		Benzene
8.843	BV	28.30105	5.13959e-1	14.54558		Trichloroethylene
9.828	BB	89.53070	9.93100e-2	8.89129		Toluene
10.256	BB	28.40261	5.62368e-1	15.97271		Tetrachloroethylene
10.677	VB	29.36428	7.34497e-1	21.56798		1,2-Dibromoethane

```
Totals :                               120.90076
```

```

=====
*** End of Report ***
=====

```

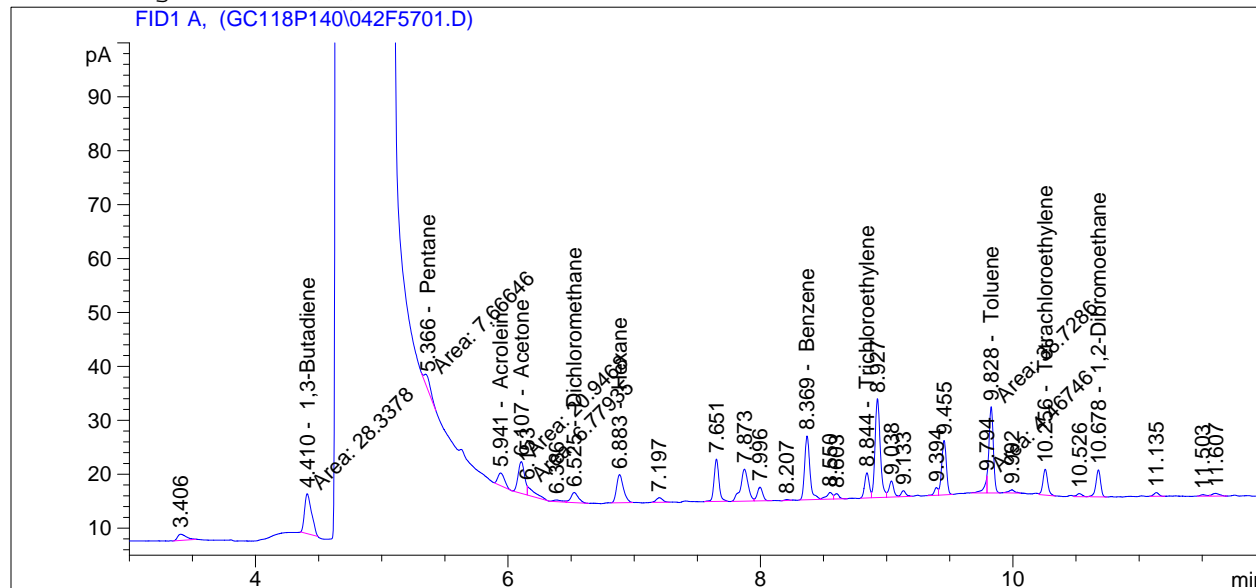
Sample Name: gc116p137 #2

```

=====
Acq. Operator   : JBB                               Seq. Line :   57
Acq. Instrument : Veronica                           Location  : Vial 42
Injection Date  : 07-Aug-11, 21:06:13                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.410	MM	28.33783	1.50002e-1	4.25072		1,3-Butadiene
5.366	MM	7.66646	2.70685e-1	2.07519		Pentane
5.941	VV	8.59891	3.58824e-1	3.08549		Acrolein
6.107	MF	20.94678	1.44360e-1	3.02388		Acetone
6.525	VV	7.61911	7.73627e-1	5.89435		Dichloromethane
6.883	BB	19.49557	1.33732e-1	2.60719		Hexane
8.369	BB	34.43260	1.03901e-1	3.57758		Benzene
8.844	BV	11.79727	5.00969e-1	5.91007		Trichloroethylene
9.828	FM	38.72859	8.56540e-2	3.31726		Toluene
10.256	BB	12.58762	5.50604e-1	6.93079		Tetrachloroethylene
10.678	BB	12.82191	7.04550e-1	9.03368		1,2-Dibromoethane

```
Totals :                               49.70619
```

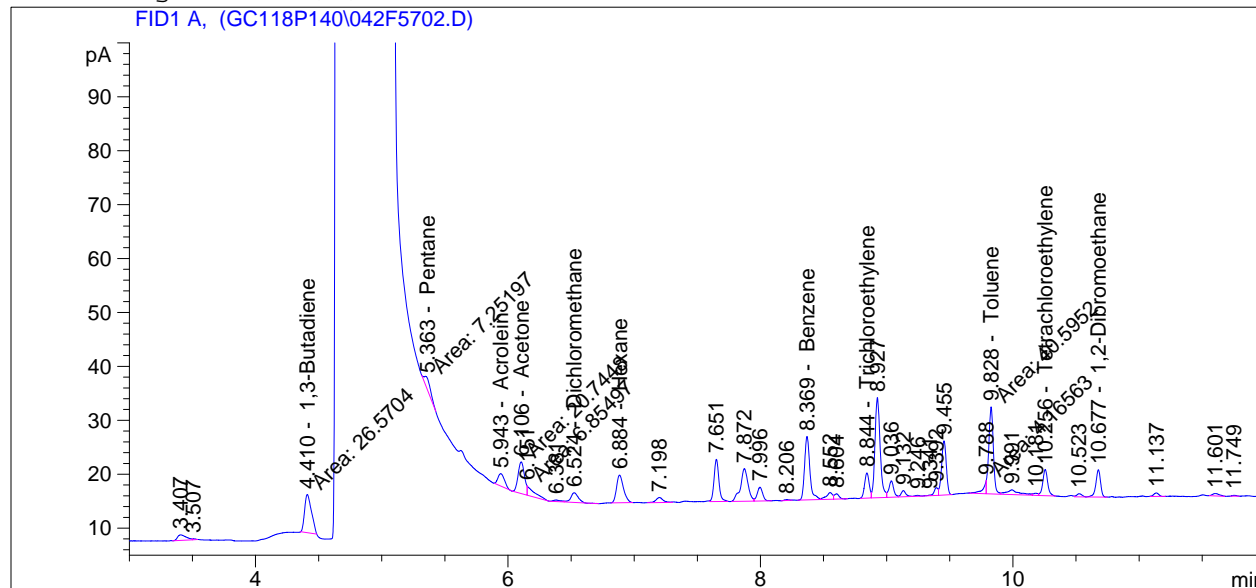
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : JBB                               Seq. Line :   57
Acq. Instrument : Veronica                           Location  : Vial 42
Injection Date  : 07-Aug-11, 21:24:03                Inj       :    2
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.410	MM	26.57038	1.49988e-1	3.98524		1,3-Butadiene
5.363	MM	7.25197	2.76752e-1	2.00700		Pentane
5.943	VV	8.30650	3.59492e-1	2.98612		Acrolein
6.106	MF	20.74478	1.43603e-1	2.97901		Acetone
6.524	VV	7.49140	7.72094e-1	5.78406		Dichloromethane
6.884	BB	19.59066	1.33720e-1	2.61965		Hexane
8.369	BV	34.35600	1.03887e-1	3.56913		Benzene
8.844	BV	11.86449	5.01095e-1	5.94524		Trichloroethylene
9.828	FM	40.59520	8.67606e-2	3.52207		Toluene
10.256	VB	13.09014	5.51415e-1	7.21810		Tetrachloroethylene
10.677	VB	13.12394	7.05774e-1	9.26254		1,2-Dibromoethane

Totals : 49.87816

*** End of Report ***

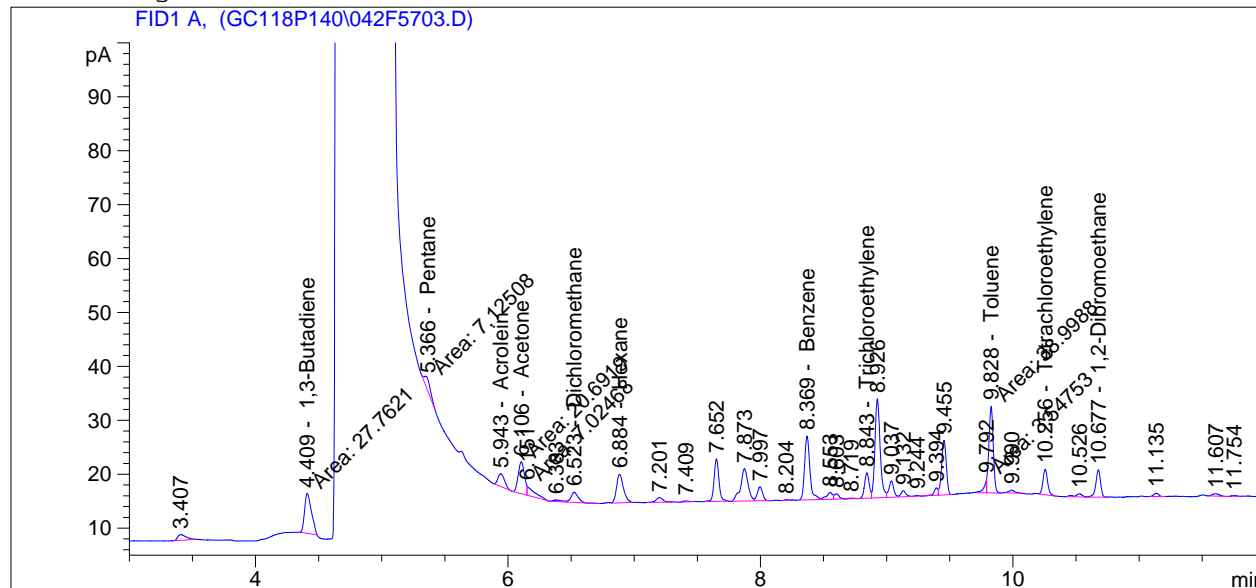
Sample Name: gc116p137 #2

```

=====
Acq. Operator   : JBB                      Seq. Line :   57
Acq. Instrument : Veronica                 Location  : Vial 42
Injection Date  : 07-Aug-11, 21:41:52      Inj       :    3
                                           Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	27.76211	1.49997e-1	4.16424		1,3-Butadiene
5.366	MM	7.12508	2.78750e-1	1.98612		Pentane
5.943	VV	8.60451	3.58811e-1	3.08740		Acrolein
6.106	MF	20.69186	1.43402e-1	2.96725		Acetone
6.523	BB	7.32882	7.70066e-1	5.64367		Dichloromethane
6.884	BB	20.05870	1.33660e-1	2.68104		Hexane
8.369	BB	34.75394	1.03960e-1	3.61302		Benzene
8.843	VV	12.13254	5.01584e-1	6.08549		Trichloroethylene
9.828	FM	38.99881	8.58208e-2	3.34691		Toluene
10.256	BB	12.06950	5.49697e-1	6.63456		Tetrachloroethylene
10.677	VB	13.06119	7.05524e-1	9.21498		1,2-Dibromoethane

```
Totals :                               49.42468
```

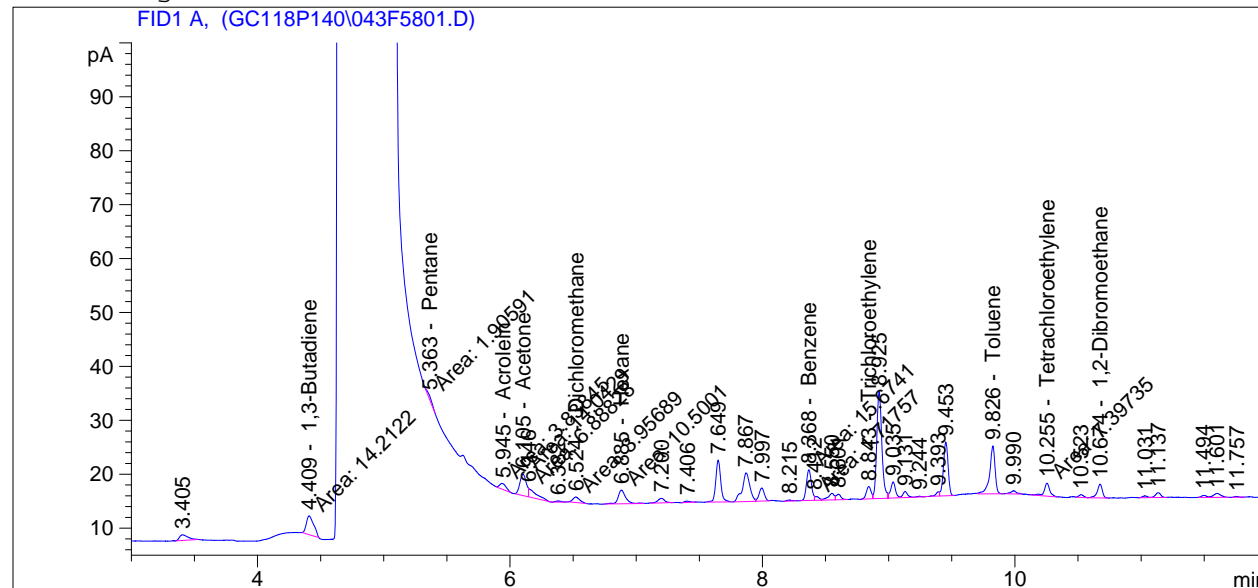
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : JBB                               Seq. Line :   58
Acq. Instrument : Veronica                           Location  : Vial 43
Injection Date  : 07-Aug-11, 22:35:17                Inj       :    1
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 A,

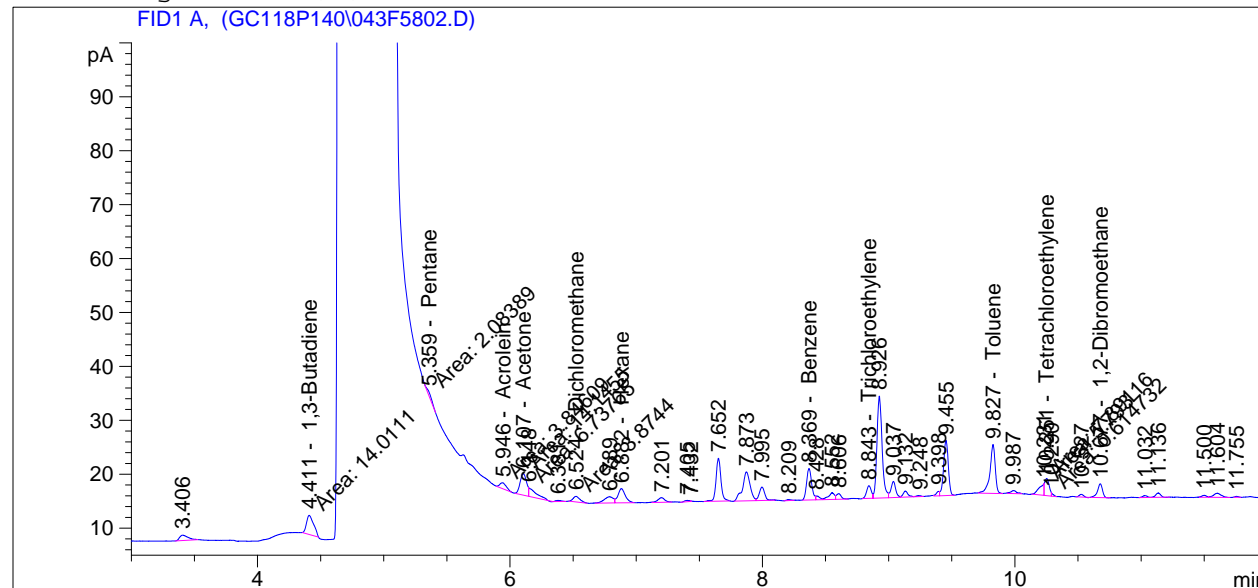
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	14.21223	1.49815e-1	2.12920		1,3-Butadiene
5.363	MM	1.90591	4.73617e-1	9.02670e-1		Pentane
5.945	MM	3.83845	3.77157e-1	1.44770		Acrolein
6.105	MF	14.04291	1.09262e-1	1.53435		Acetone
6.524	MM	3.95689	6.90419e-1	2.73191		Dichloromethane
6.885	MM	10.50015	1.35948e-1	1.42748		Hexane
8.368	MF	15.67406	9.79439e-2	1.53518		Benzene
8.843	BV	6.01838	4.80042e-1	2.88908		Trichloroethylene
9.826	BB	26.28687	7.42633e-2	1.95215		Toluene
10.255	MM	7.39735	5.35780e-1	3.96335		Tetrachloroethylene
10.674	VV	7.14505	6.62315e-1	4.73227		1,2-Dibromoethane

Totals : 25.24535

*** End of Report ***

```
=====
Acq. Operator   : JBB                               Seq. Line :   58
Acq. Instrument : Veronica                           Location  : Vial 43
Injection Date  : 07-Aug-11, 22:53:04                Inj       :    2
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 A,

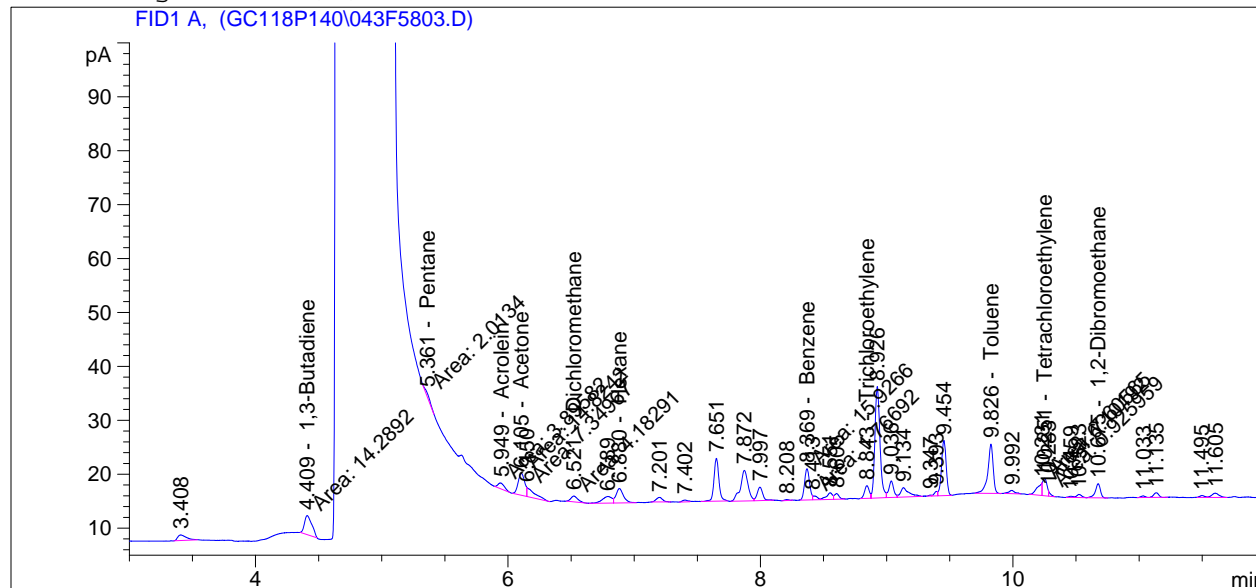
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.411	MM	14.01110	1.49815e-1	2.09907		1,3-Butadiene
5.359	MM	2.08389	4.73617e-1	9.86963e-1		Pentane
5.946	MM	3.84609	3.77157e-1	1.45058		Acrolein
6.107	MF	14.14552	1.09262e-1	1.54557		Acetone
6.524	MM	3.87440	6.86734e-1	2.66068		Dichloromethane
6.882	VB	10.62116	1.35894e-1	1.44335		Hexane
8.369	BV	16.23872	9.79439e-2	1.59048		Benzene
8.843	BV	6.08158	4.80042e-1	2.91941		Trichloroethylene
9.827	BB	26.53707	7.45976e-2	1.97960		Toluene
10.251	MF	7.89116	5.38029e-1	4.24568		Tetrachloroethylene
10.677	BB	6.96145	6.59799e-1	4.59316		1,2-Dibromoethane

Totals : 25.51455

*** End of Report ***

=====

Acq. Operator	: JBB	Seq. Line	: 58
Acq. Instrument	: Veronica	Location	: Vial 43
Injection Date	: 07-Aug-11, 23:10:50	Inj	: 3
		Inj Volume	: 0.2 µl
Sequence File	: C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S		
Acq. Method	: C:\GC2011Q3\VERONICA\METHODS\GC118P140.M		
Last changed	: 8/6/2011 5:52:32 PM		
Analysis Method	: C:\GC2011Q3\VERONICA\METHODS\GC118P140.M		
Last changed	: 8/8/2011 4:47:00 PM		



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.409	MM	14.28916	1.49815e-1	2.14073		1,3-Butadiene
5.361	MM	2.01340	4.73617e-1	9.53578e-1		Pentane
5.949	MM	3.89582	3.77157e-1	1.46934		Acrolein
6.105	MF	14.82419	1.12239e-1	1.66385		Acetone
6.521	MM	4.18291	6.99773e-1	2.92709		Dichloromethane
6.880	VV	10.85353	1.35792e-1	1.47382		Hexane
8.369	MF	15.92662	9.79439e-2	1.55991		Benzene
8.843	BV	6.01784	4.80042e-1	2.88882		Trichloroethylene
9.826	BB	26.92549	7.51043e-2	2.02222		Toluene
10.251	MF	7.60565	5.36764e-1	4.08244		Tetrachloroethylene
10.675	BB	7.25231	6.63726e-1	4.81355		1,2-Dibromoethane

Totals : 25.99534

=====

*** End of Report ***

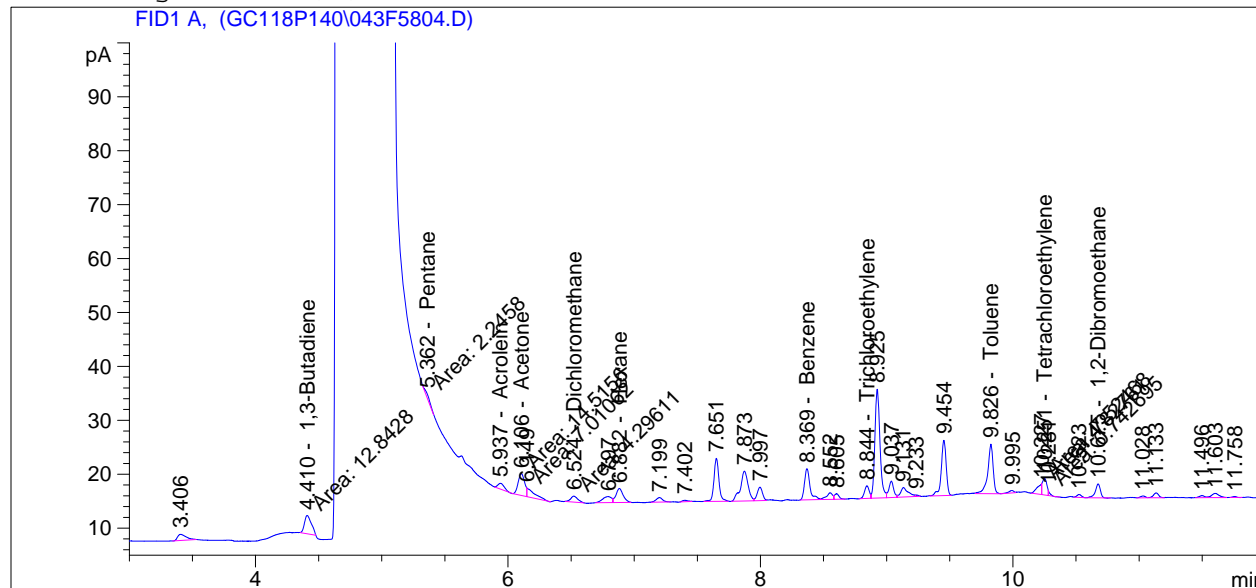
Sample Name: gc116p137 #1

```

=====
Acq. Operator   : JBB                               Seq. Line :   58
Acq. Instrument : Veronica                           Location  : Vial 43
Injection Date  : 07-Aug-11, 23:28:37                Inj       :    4
                                                    Inj Volume: 0.2 µl

Sequence File   : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method     : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed    : 8/8/2011 4:47:00 PM
=====

```



External Standard Report

```

=====
Sorted By      :      Signal
Calib. Data Modified :      8/8/2011 3:48:45 PM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.410	MM	12.84275	1.49815e-1	1.92404		1,3-Butadiene
5.362	MM	2.24580	4.73617e-1	1.06365		Pentane
5.937	BV	3.66205	3.77157e-1	1.38117		Acrolein
6.106	MF	14.51564	1.09903e-1	1.59531		Acetone
6.524	MM	4.29611	7.04088e-1	3.02484		Dichloromethane
6.882	VB	10.32735	1.36029e-1	1.40481		Hexane
8.369	BB	17.43364	9.79439e-2	1.70752		Benzene
8.844	BV	6.08336	4.80046e-1	2.92029		Trichloroethylene
9.826	BB	27.21523	7.54728e-2	2.05401		Toluene
10.251	MF	7.52468	5.36388e-1	4.03615		Tetrachloroethylene
10.675	VB	7.22124	6.63322e-1	4.79001		1,2-Dibromoethane

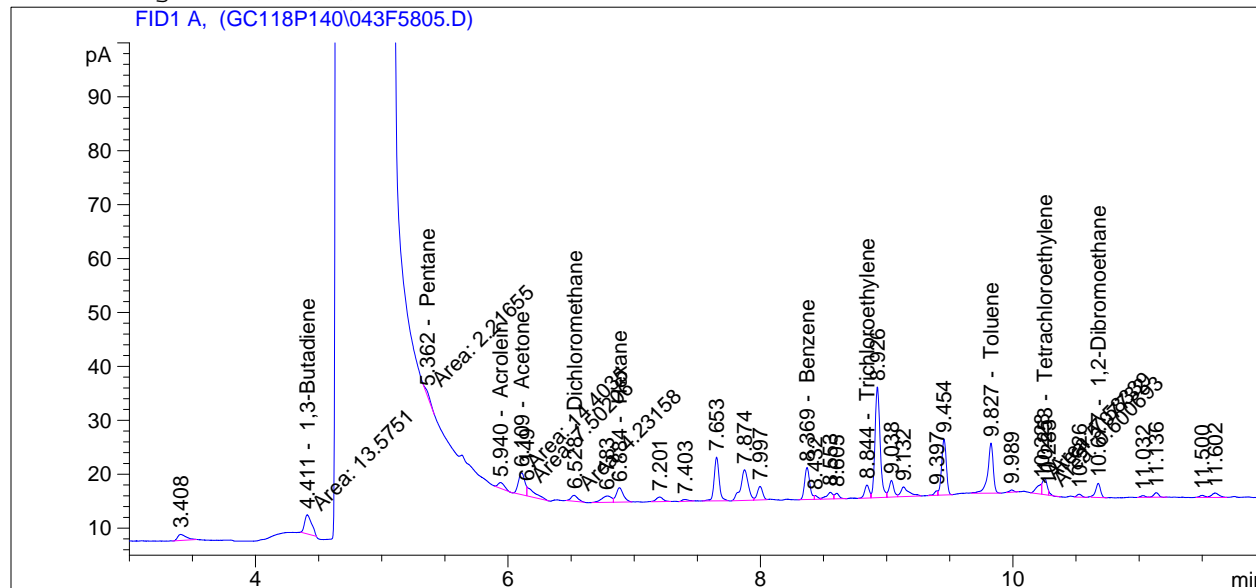
Totals : 25.90179

*** End of Report ***

=====

Acq. Operator	: JBB	Seq. Line	: 58
Acq. Instrument	: Veronica	Location	: Vial 43
Injection Date	: 07-Aug-11, 23:46:26	Inj	: 5
		Inj Volume	: 0.2 µl

Sequence File : C:\GC2011Q3\VERONICA\SEQUENCE\GC118P140.S
Acq. Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/6/2011 5:52:32 PM
Analysis Method : C:\GC2011Q3\VERONICA\METHODS\GC118P140.M
Last changed : 8/8/2011 4:47:00 PM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 8/8/2011 3:48:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount	Grp	Name
4.411	MM	13.57511	1.49815e-1	2.03376		1,3-Butadiene
5.362	MM	2.21655	4.73617e-1	1.04979		Pentane
5.940	BB	3.74707	3.77157e-1	1.41323		Acrolein
6.109	MF	14.40347	1.09262e-1	1.57375		Acetone
6.528	MM	4.23158	7.01657e-1	2.96912		Dichloromethane
6.884	VB	10.39065	1.35999e-1	1.41312		Hexane
8.369	BV	16.84610	9.79439e-2	1.64997		Benzene
8.844	BV	6.18330	4.80744e-1	2.97259		Trichloroethylene
9.827	BB	27.94884	7.63717e-2	2.13450		Toluene
10.253	MF	7.58339	5.36662e-1	4.06971		Tetrachloroethylene
10.677	BB	6.99804	6.60311e-1	4.62089		1,2-Dibromoethane

Totals : 25.90042

=====

*** End of Report ***

=====

6890 GC METHOD

=====

OVEN

Initial temp: 40 'C (On)	Maximum temp: 300 'C
Initial time: 2.00 min	Equilibration time: 1.00 min
Ramps:	
# Rate Final temp Final time	
1 25.00 240 2.00	
2 0.0(Off)	
Post temp: 50 'C	
Post time: 0.00 min	
Run time: 12.00 min	

FRONT INLET (SPLIT/SPLITLESS)

Mode: Splitless
Initial temp: 225 'C (On)
Pressure: 10.15 psi (On)
Purge flow: 100.0 mL/min
Purge time: 0.50 min
Total flow: 116.6 mL/min
Gas saver: On
Saver flow: 20.0 mL/min
Saver time: 5.00 min
Gas type: Hydrogen

BACK INLET (SPLIT/SPLITLESS)

Mode: Split
Initial temp: 225 'C (On)
Pressure: 5.13 psi (On)
Split ratio: 1:1
Split flow: 2.0 mL/min
Total flow: 10.1 mL/min
Gas saver: Off
Gas type: Hydrogen

COLUMN 1

Capillary Column
Model Number: Restek 10975
Rtx-624 105m x 0.53mm x 3.0um
Max temperature: 240 'C
Nominal length: 105.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 3.00 um
Mode: constant pressure
Pressure: 10.15 psi
Nominal initial flow: 10.4 mL/min
Average velocity: 61 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

COLUMN 2

Capillary Column
Model Number: Restek 10198
Rtx-1 30m x 0.32mm x 4.0um
Max temperature: 350 'C
Nominal length: 30.0 m
Nominal diameter: 320.00 um
Nominal film thickness: 4.00 um
Mode: constant pressure
Pressure: 5.13 psi
Nominal initial flow: 2.0 mL/min
Average velocity: 39 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

FRONT DETECTOR (FID)

Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant makeup flow
Makeup flow: 45.0 mL/min (On)
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

BACK DETECTOR (FID)

Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (Off)
Air flow: 450.0 mL/min (Off)
Mode: Constant makeup flow
Makeup flow: 45.0 mL/min (On)
Makeup Gas Type: Nitrogen
Flame: Off
Electrometer: On
Lit offset: 2.0

SIGNAL 1

Data rate: 20 Hz
Type: front detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

SIGNAL 2

Data rate: 20 Hz
Type: back detector
Save Data: Off
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

TIME TABLE

Time	Specifier	Parameter & Setpoint
------	-----------	----------------------

GC Injector

Front Injector:

Sample Washes	0
Sample Pumps	7
Injection Volume	0.20 microliters
Syringe Size	10.0 microliters
PreInj Solvent A Washes	0
PreInj Solvent B Washes	0
PostInj Solvent A Washes	3
PostInj Solvent B Washes	3
Viscosity Delay	2 seconds
Plunger Speed	Variable
Injection Speed	6000.00 microliters/minutes
Draw Speed	300.00 microliters/minutes
Dispense Speed	6000.00 microliters/minutes
PreInjection Dwell	0.00 minutes
PostInjection Dwell	0.00 minutes

Back Injector:

No parameters specified

Sequence: C:\GC2011Q3\VERONICA\SEQUENCE\gc118p140.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type	
1	Vial 1	gc118p137 #5	GC118P140	3	Sample	
2	Vial 2	gc118p137 #4	GC118P140	3	Sample	
3	Vial 3	gc118p137 #3	GC118P140	3	Sample	
4	Vial 4	gc118p137 #2	GC118P140	3	Sample	
5	Vial 6	gc118p137 #3ss	GC118P140	3	Sample	
6	Vial 5	gc118p137 #1	GC118P140	7	Sample	
7	Vial 5	pause	PAUSE	1	Sample	
8	Vial 91	0611-12 R1 Bag Cond #MS	GC118P140	3	Sample	NR
9	Vial 92	0711-12 T1R1 Bag Cond #MS	GC118P140	3	Sample	123
10	Vial 91	0611-12 R1 Bag Cond #MS	GC118P140	5	Sample	345
11	Vial 93	0611-22 ICR1 Bag Cond A #MS	GC118P140	5	Sample	345
12	Vial 94	0611-161 R2 Bag COND #MS	GC118P140	5	Sample	345
13	Vial 95	0711-81 T1R1 Bag COND #MS	GC118P140	5	Sample	345
14	Vial 96	0711-64 R1 Bag COND #MS	GC118P140	5	Sample	NR
15	Vial 97	0711-08 Bag COND #MS	GC118P140	5	Sample	
16	Vial 98	gc116p137 #3	GC118P140	5	Sample	
17	Vial 99	gc116p137 #4	GC118P140	5	Sample	
18	Vial 100	RB H2O	GC118P140	5	Sample	
19	Vial 5	pause	PAUSE	1	Sample	
20	Vial 7	0711-64 R1 Bag COND #MS	GC118P140	5	Sample	123*
21	Vial 5	pause	PAUSE	1	Sample	
22	Vial 8	0711-64 R1 Bag COND #MS	GC118P140	5	Sample	
23	Vial 9	RB H2O	GC118P140	5	Sample	
24	Vial 10	0711-08 Bag COND	GC118P140	5	Sample	
25	Vial 11	0611-12 R1 Bag Cond	GC118P140	5	Sample	
26	Vial 12	0611-12 R2 Bag Cond	GC118P140	5	Sample	
27	Vial 13	0711-12 T2R1 Bag Cond	GC118P140	5	Sample	
28	Vial 14	0711-12 T2R2 Bag Cond	GC118P140	5	Sample	
29	Vial 15	0711-12 T2R3 Bag Cond	GC118P140	5	Sample	
30	Vial 16	0611-22 ICR1 Bag Cond A	GC118P140	5	Sample	
31	Vial 17	0611-22 ICR1 Bag Cond B	GC118P140	5	Sample	
32	Vial 18	gc118p137 #4	GC118P140	5	Sample	
33	Vial 19	gc118p137 #3	GC118P140	5	Sample	
34	Vial 20	RB H2O	GC118P140	5	Sample	
35	Vial 21	0611-22 ICR2 Bag Cond A	GC118P140	5	Sample	
36	Vial 22	0611-22 ICR2 Bag Cond B	GC118P140	5	Sample	
37	Vial 23	0611-22 ICR3 Bag Cond A	GC118P140	5	Sample	
38	Vial 24	0611-22 ICR3 Bag Cond B	GC118P140	5	Sample	
39	Vial 25	0611-161 R1 Bag COND	GC118P140	5	Sample	
40	Vial 26	0611-161 R2 Bag COND	GC118P140	5	Sample	
41	Vial 27	0611-161 R3 Bag COND	GC118P140	5	Sample	
42	Vial 28	0711-81 T1R01 Bag COND	GC118P140	5	Sample	
43	Vial 29	0711-81 T1R1 Bag COND	GC118P140	5	Sample	
44	Vial 30	0711-81 T1R2 Bag COND	GC118P140	5	Sample	
45	Vial 31	gc118p137 #4	GC118P140	5	Sample	
46	Vial 32	gc118p137 #3	GC118P140	5	Sample	
47	Vial 33	RB H2O	GC118P140	5	Sample	
48	Vial 34	0711-81 T1R3 Bag COND	GC118P140	5	Sample	
49	Vial 35	0711-64 Bag COND FB	GC118P140	5	Sample	
50	Vial 36	0711-64 R1 Bag COND	GC118P140	5	Sample	345
51	Vial 37	0711-64 R2 Bag COND	GC118P140	5	Sample	345
52	Vial 38	0711-64 R3 Bag COND	GC118P140	5	Sample	
53	Vial 39	gc116p137 #5	GC118P140	5	Sample	
54	Vial 40	gc116p137 #4	GC118P140	5	Sample	
55	Vial 41	gc116p137 #3	GC118P140	5	Sample	
56	Vial 42	gc116p137 #2	GC118P140	5	Sample	
57	Vial 43	gc116p137 #1	GC118P140	5	Sample	

123* = all compounds reproduce except PERC (inhomogenous sample)

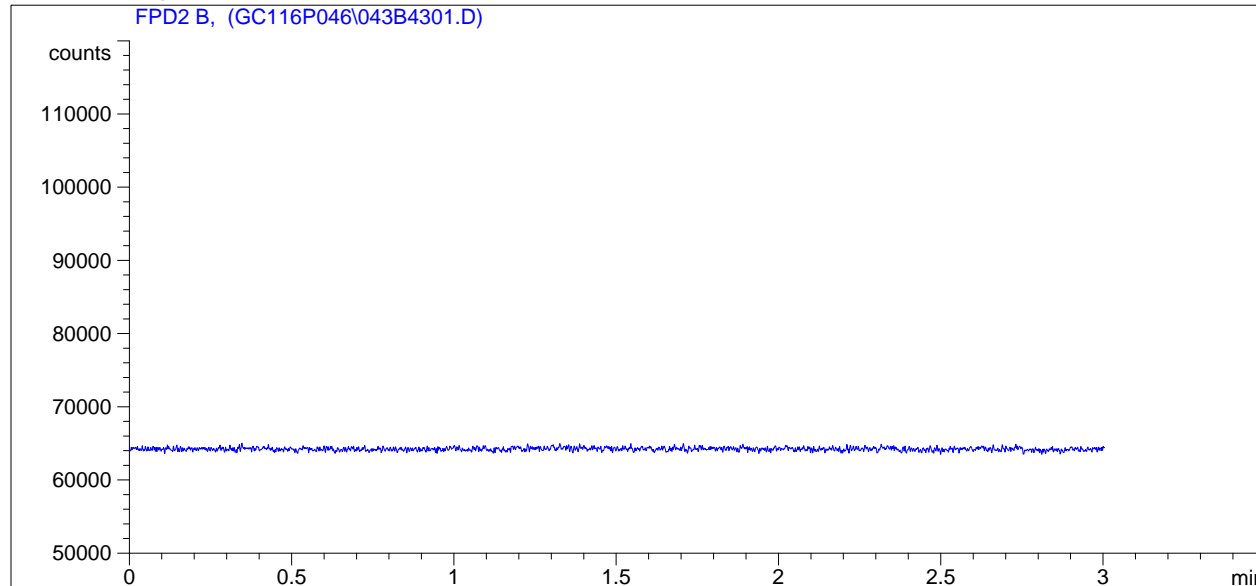
Sample Chromatograms

Sample Name: 0711-81 T1R1 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   43
Acq. Instrument : Instrument 1              Location  : Vial 43
Injection Date  : 7/30/2011 8:39:07 AM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

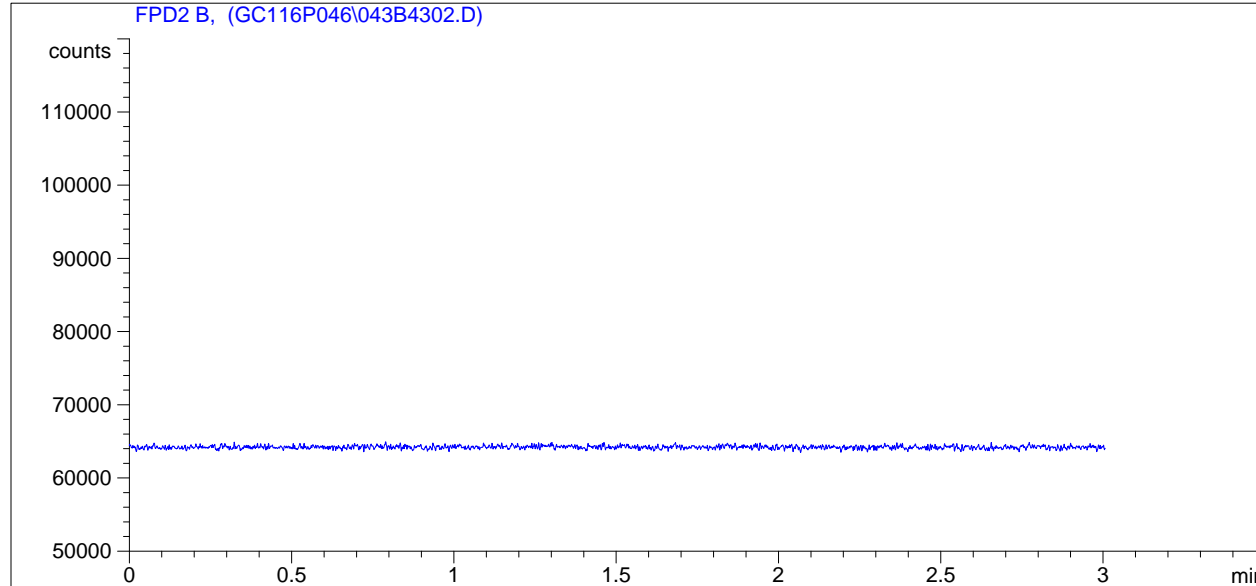
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R1 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   43
Acq. Instrument : Instrument 1              Location  : Vial 43
Injection Date  : 7/30/2011 8:43:18 AM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

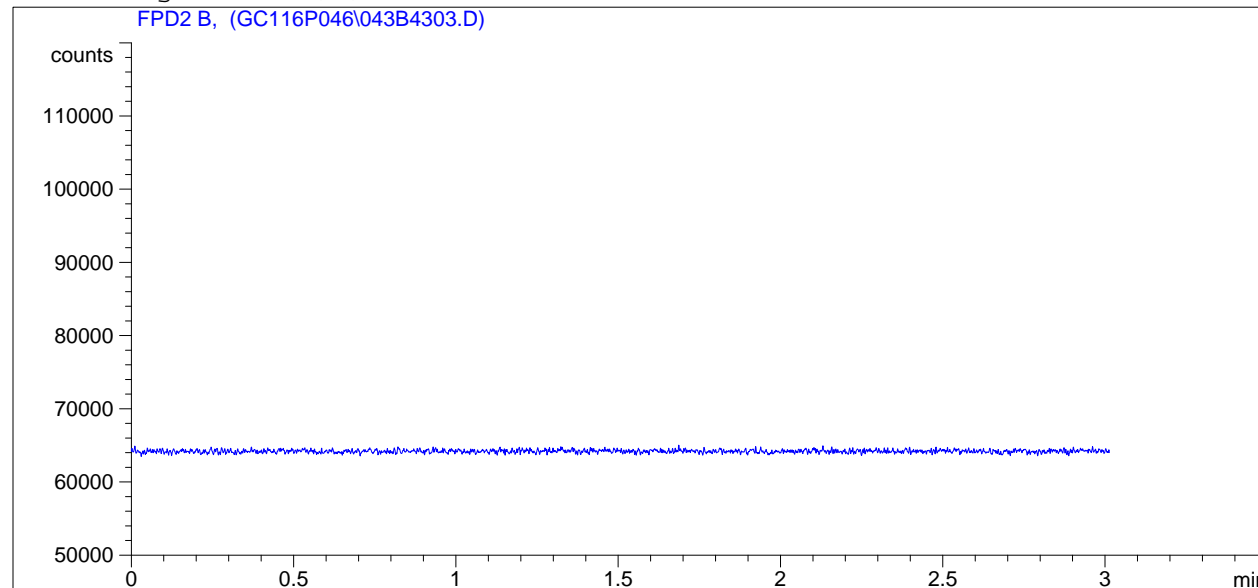
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R1 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   43
Acq. Instrument : Instrument 1              Location  : Vial 43
Injection Date  : 7/30/2011 8:47:34 AM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

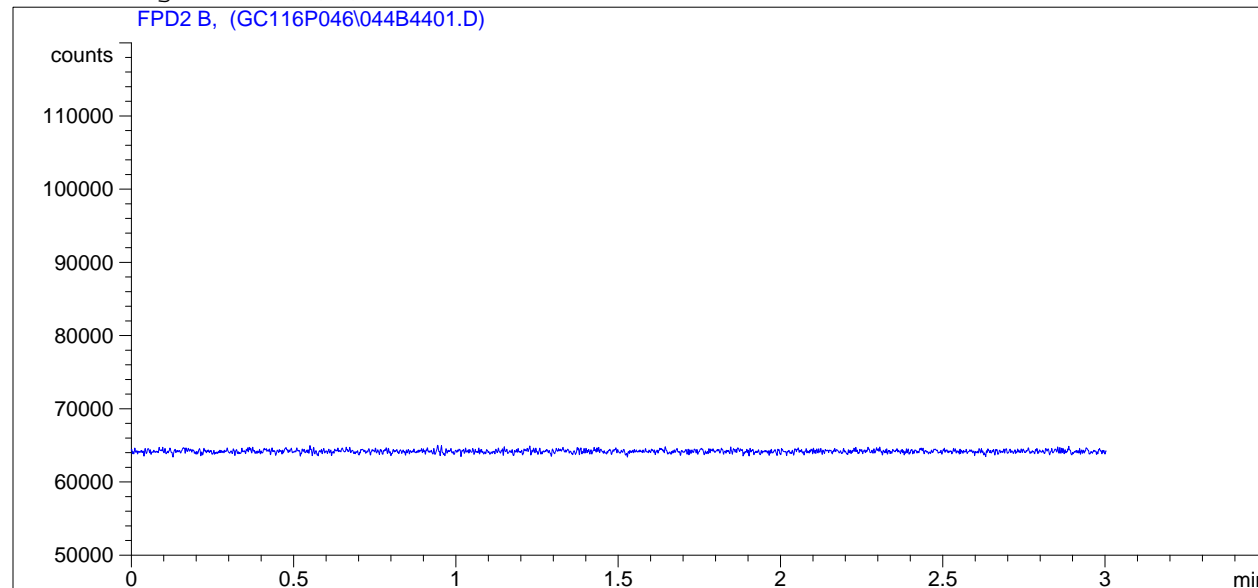
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R2 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   44
Acq. Instrument : Instrument 1              Location  : Vial 44
Injection Date  : 7/30/2011 9:00:03 AM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

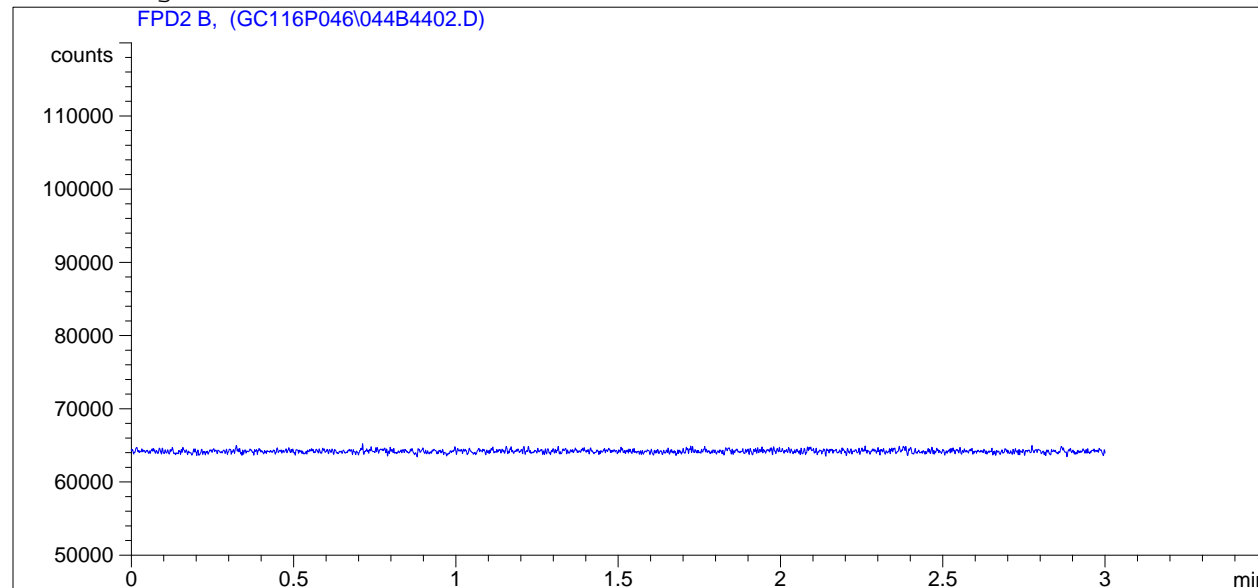
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R2 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   44
Acq. Instrument : Instrument 1              Location  : Vial 44
Injection Date  : 7/30/2011 9:04:18 AM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

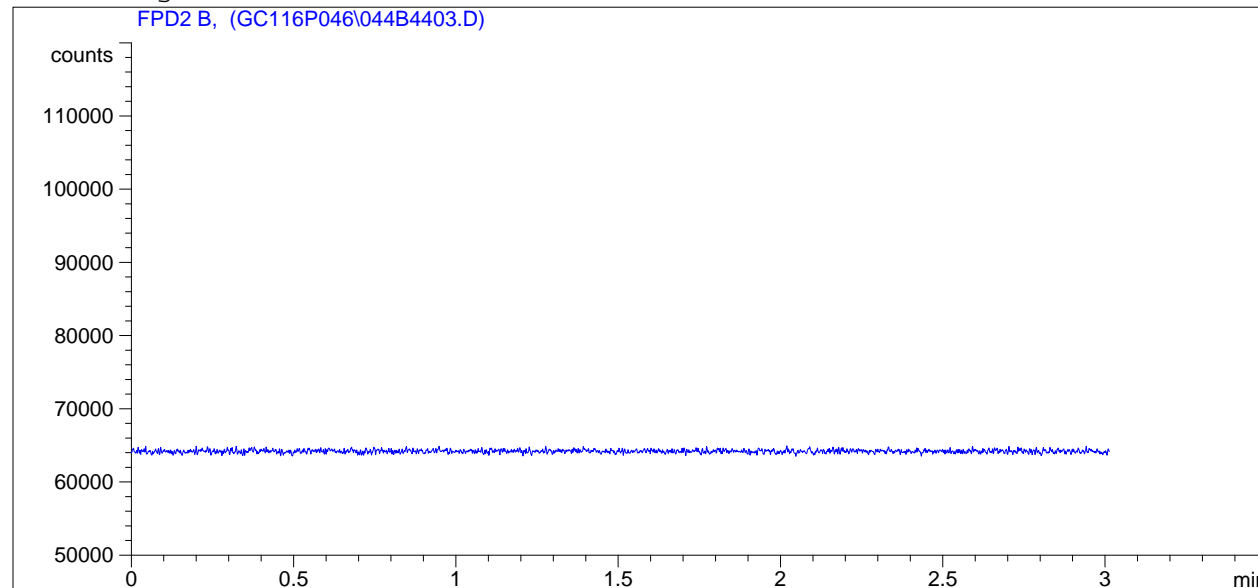
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R2 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   44
Acq. Instrument : Instrument 1              Location  : Vial 44
Injection Date  : 7/30/2011 9:08:28 AM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

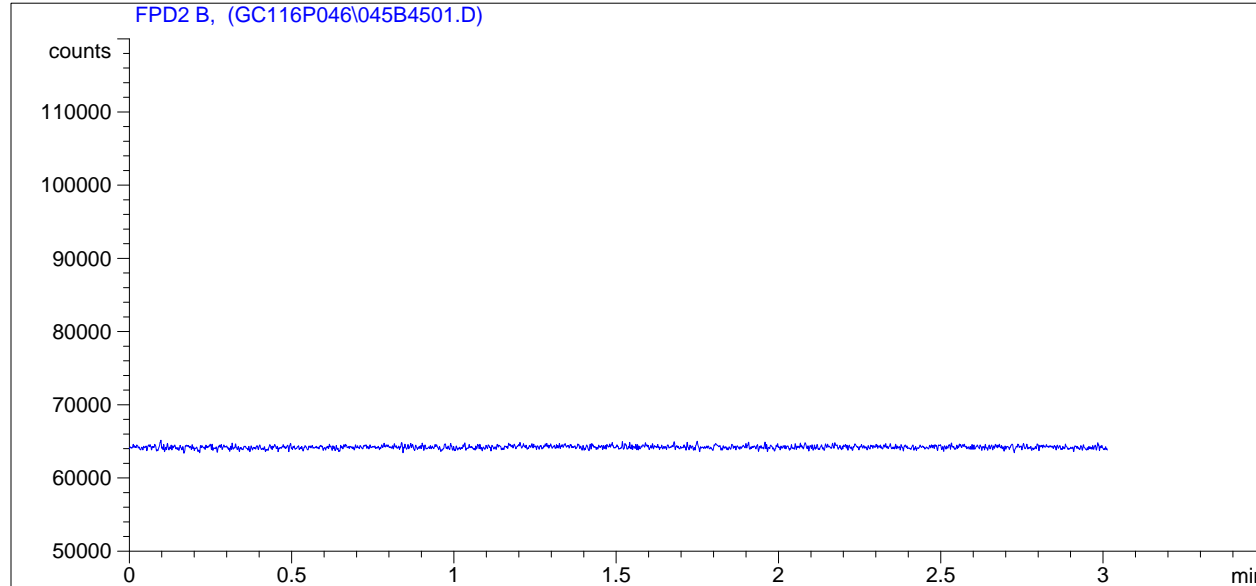
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R3 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   45
Acq. Instrument : Instrument 1              Location  : Vial 45
Injection Date  : 7/30/2011 9:21:12 AM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

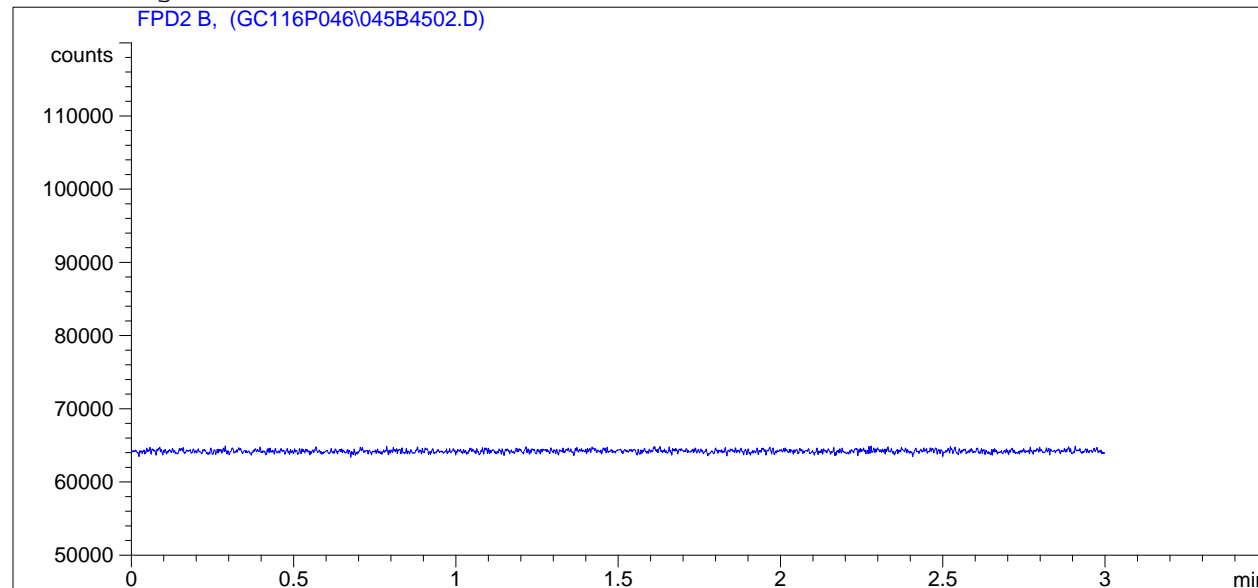
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R3 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   45
Acq. Instrument : Instrument 1              Location  : Vial 45
Injection Date  : 7/30/2011 9:25:23 AM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

```
Totals :                                0.00000
```

1 Warnings or Errors :

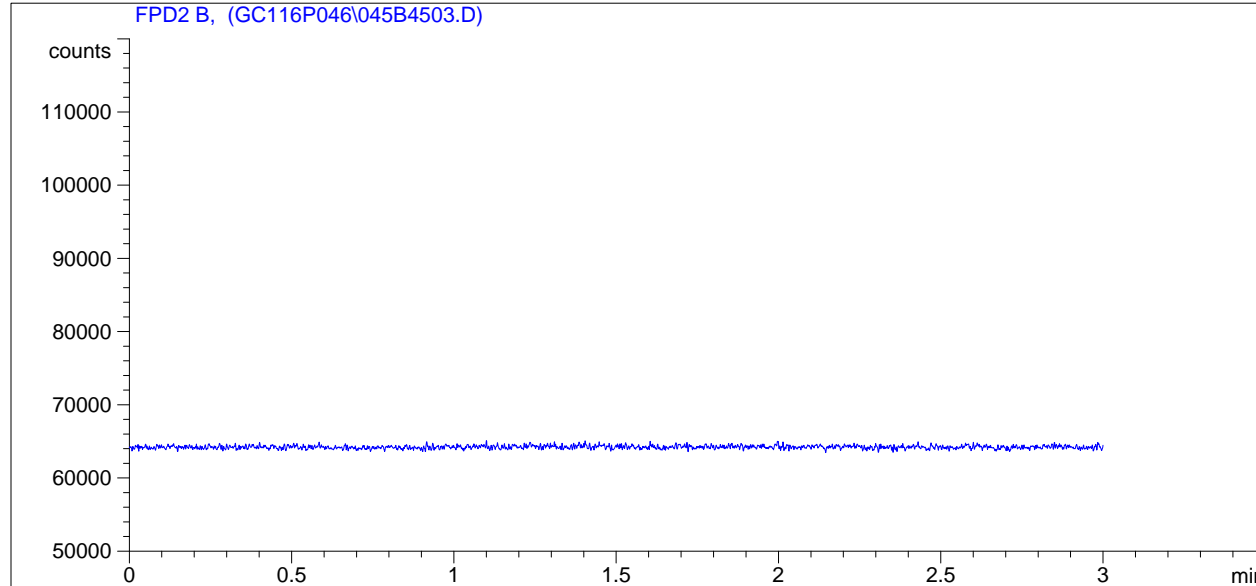
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R3 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   45
Acq. Instrument : Instrument 1              Location  : Vial 45
Injection Date  : 7/30/2011 9:29:35 AM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

Totals : 0.00000

1 Warnings or Errors :

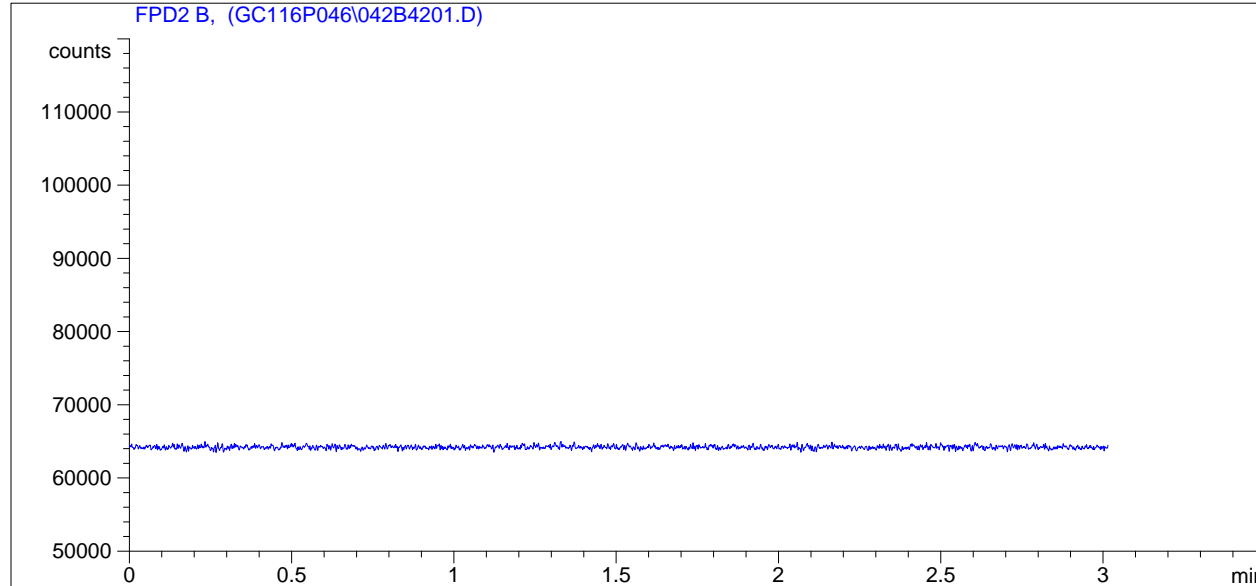
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R01 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   42
Acq. Instrument : Instrument 1              Location  : Vial 42
Injection Date  : 7/30/2011 8:18:04 AM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

```
Totals :                                0.00000
```

1 Warnings or Errors :

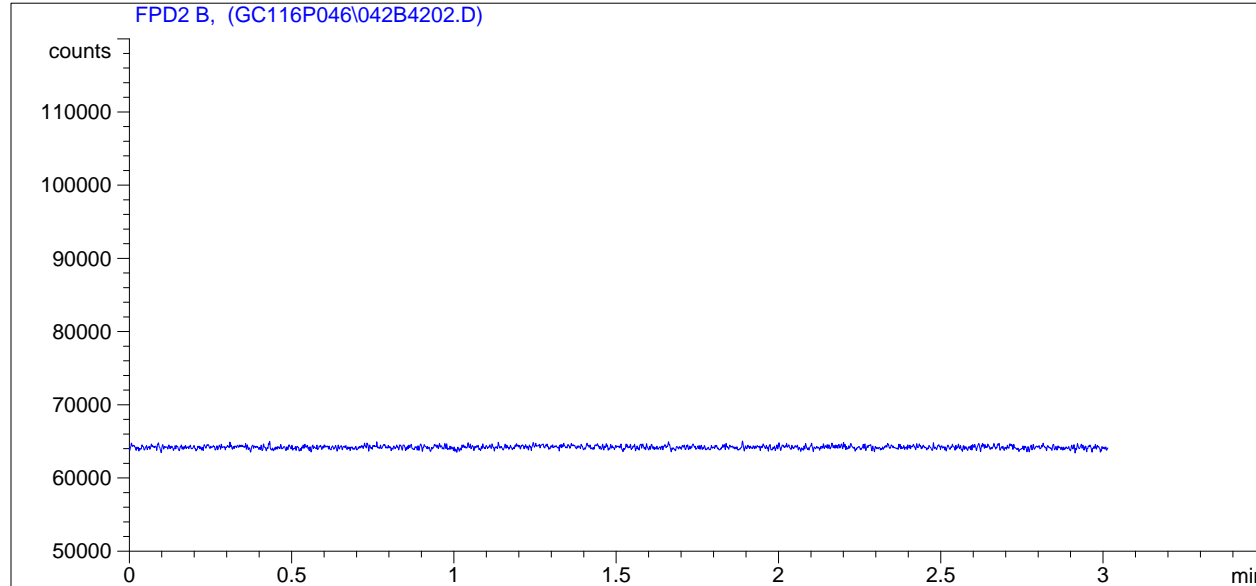
Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R01 Bag COND

Dry Imp

```
=====
Acq. Operator   : JBB                      Seq. Line :   42
Acq. Instrument : Instrument 1              Location  : Vial 42
Injection Date  : 7/30/2011 8:22:16 AM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

```
Totals :                                0.00000
```

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Sample Name: 0711-81 T1R0\ Bag COND

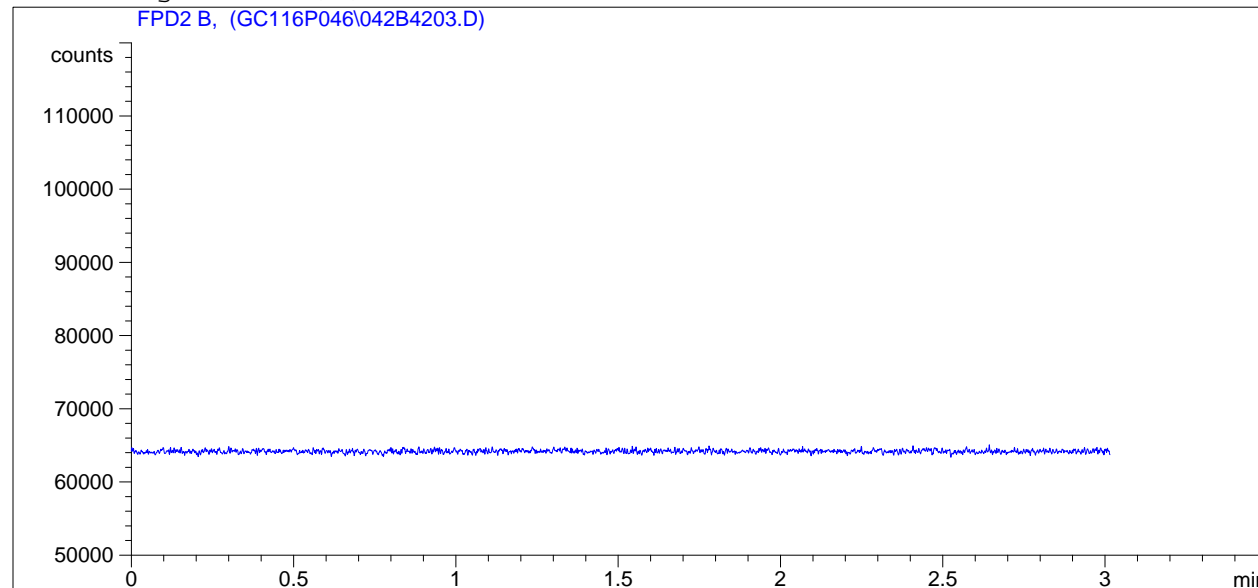
Dry Imp

```

=====
Acq. Operator   : JBB                               Seq. Line :   42
Acq. Instrument : Instrument 1                       Location  : Vial 42
Injection Date  : 7/30/2011 8:26:27 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

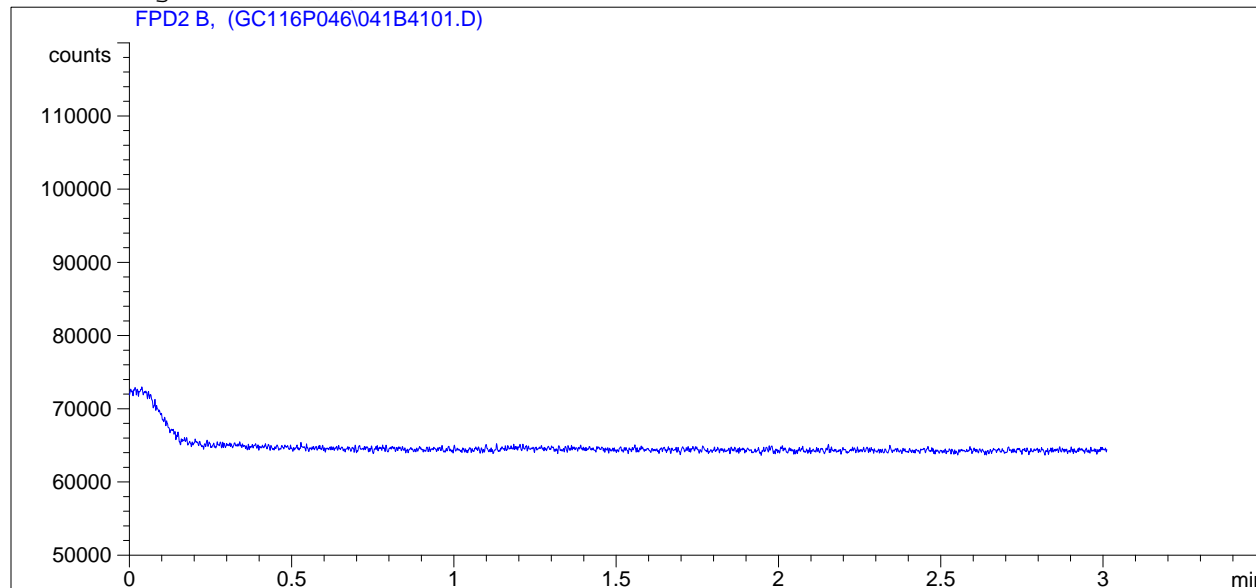
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : JBB                      Seq. Line :   41
Acq. Instrument : Instrument 1              Location  : Vial 41
Injection Date  : 7/30/2011 7:56:57 AM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

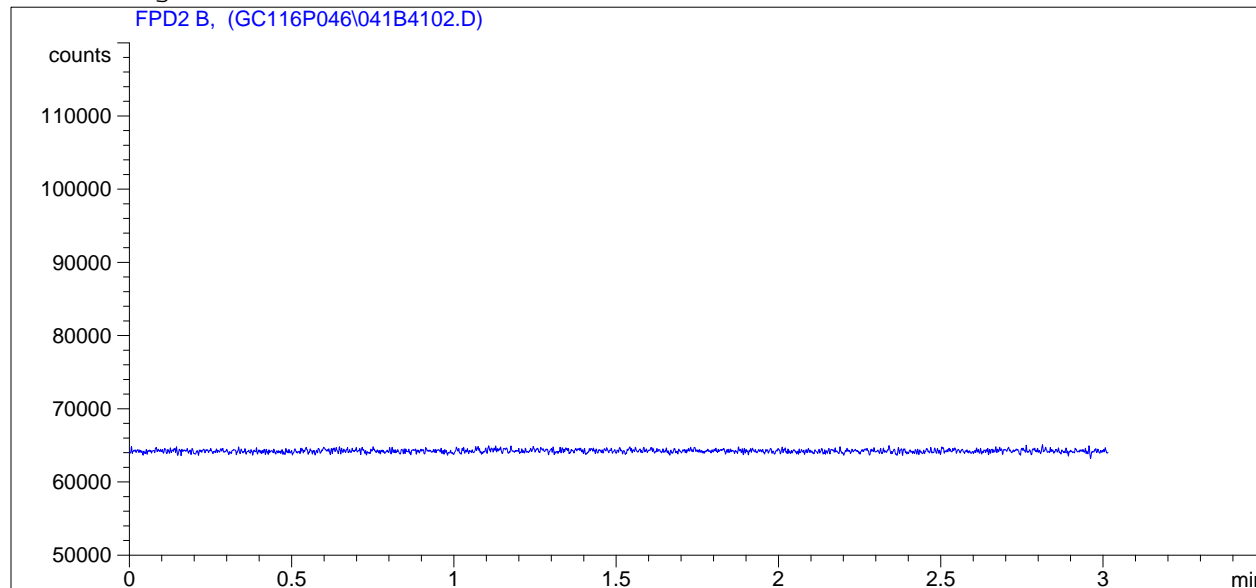
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : JBB                               Seq. Line :   41
Acq. Instrument : Instrument 1                       Location  : Vial 41
Injection Date  : 7/30/2011 8:01:13 AM                Inj       :    2
                                                Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

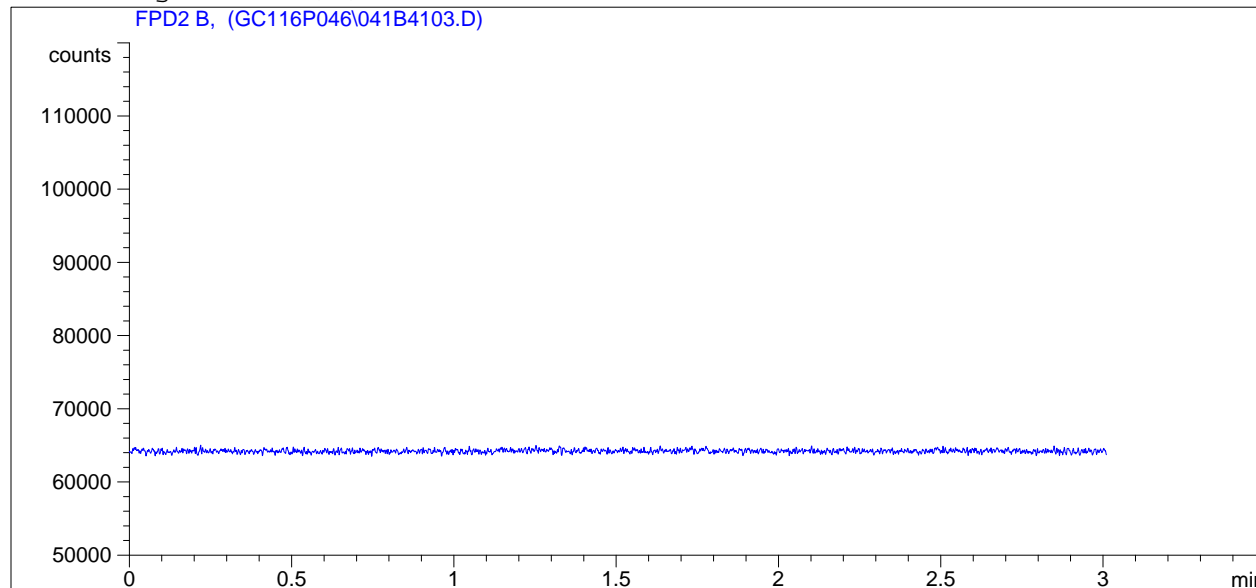
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found


```
=====
Acq. Operator   : JBB                      Seq. Line :   41
Acq. Instrument : Instrument 1              Location  : Vial 41
Injection Date  : 7/30/2011 8:05:25 AM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	-	-	-	-	-	Carbon disulfide

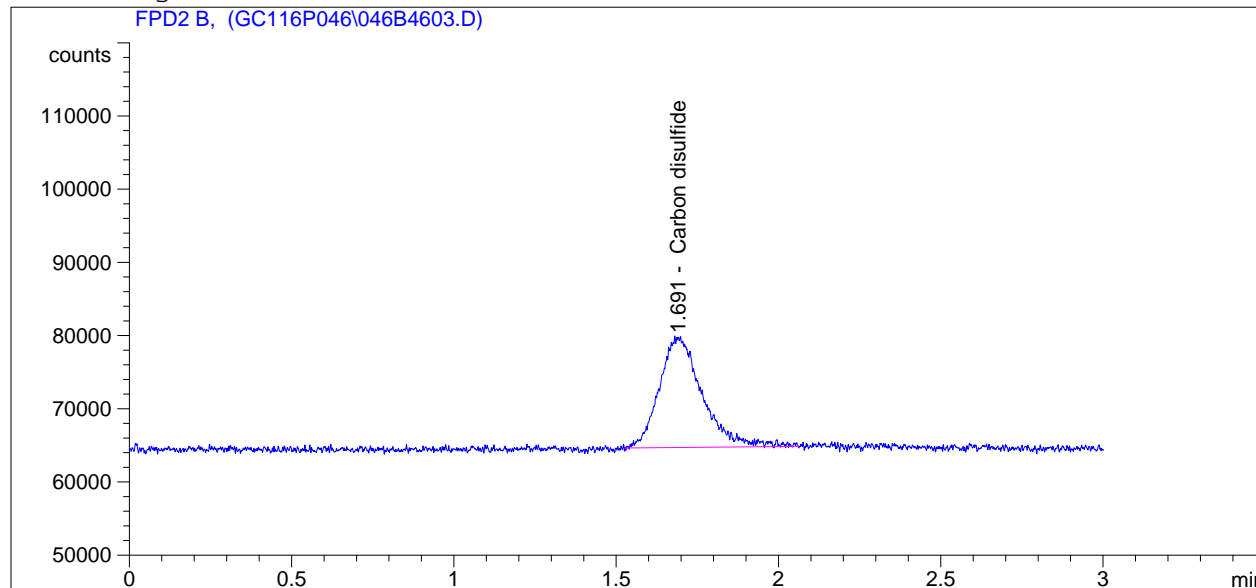
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : JBB                               Seq. Line :   46
Acq. Instrument : Instrument 1                       Location  : Vial 46
Injection Date  : 7/30/2011 9:50:41 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

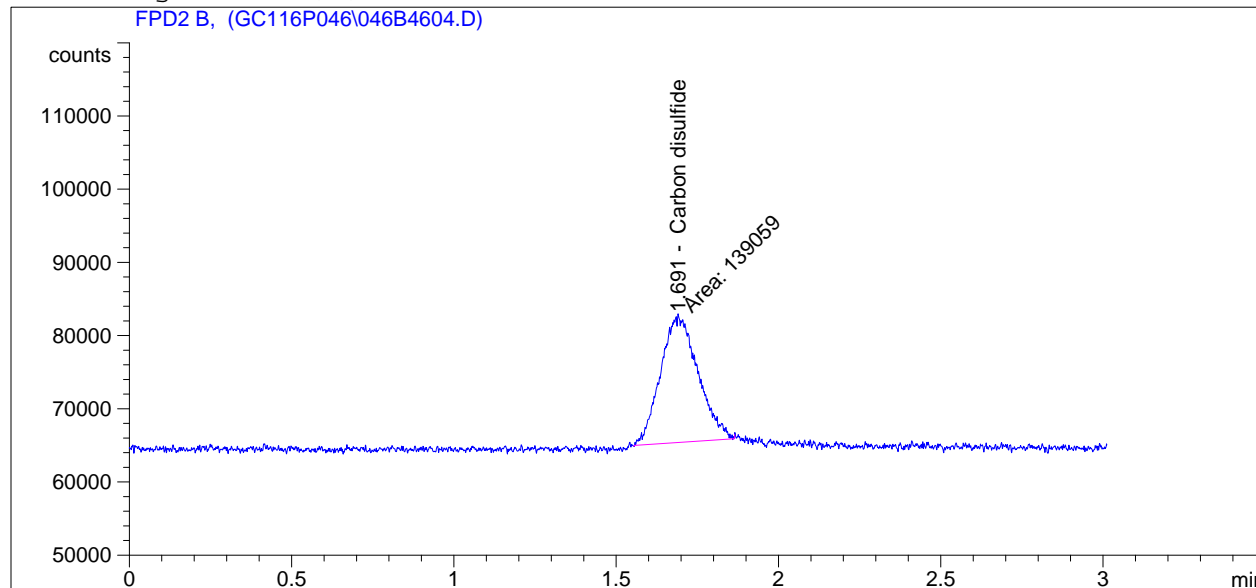
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.691	BB	1.38275e5	1.34243e-5	1.85626	--	Carbon disulfide

Totals : 1.85626

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   46
Acq. Instrument : Instrument 1                       Location  : Vial 46
Injection Date  : 7/30/2011 9:54:53 AM              Inj       :    4
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/9/2011 4:03:40 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FPD2 B,

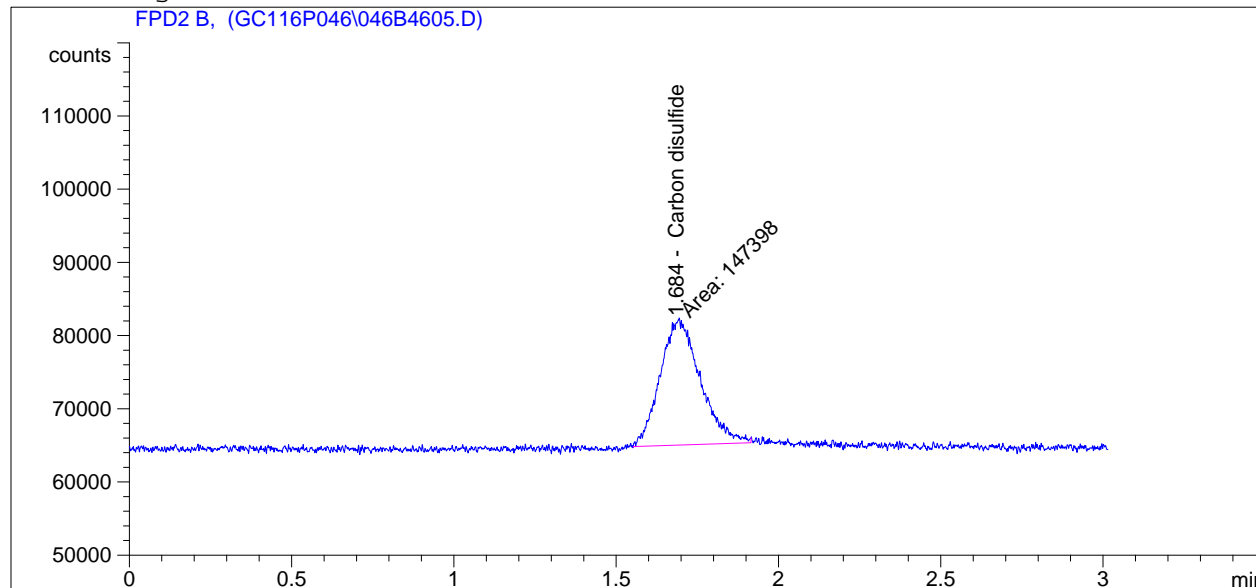
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.691	MM	1.39059e5	1.33969e-5	1.86296		Carbon disulfide

Totals : 1.86296

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   46
Acq. Instrument : Instrument 1                       Location  : Vial 46
Injection Date  : 7/30/2011 9:59:04 AM              Inj       :    5
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/9/2011 4:03:40 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.684	MM	1.47398e5	1.31150e-5	1.93313		Carbon disulfide

Totals : 1.93313

```
=====
*** End of Report ***
=====
```

Calibration Curve Chromatograms

=====
Calibration Table
=====

Calib. Data Modified : 8/9/2011 3:57:42 PM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.200 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear (some peaks differ, see below)
Origin : Connected (some peaks differ, see below)
Weight : Quadratic (Amnt) (some peaks differ, see below)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

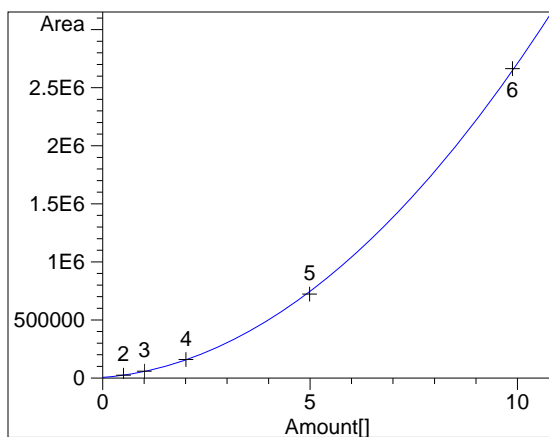
Signal 1: FID1 A,
Signal 2: FPD2 B,

RetTime	Lvl	Amount	Area	Amt/Area	Ref Grp Name
[min] Sig					
1.686	2 2	5.03000e-1	2.42838e4	2.07134e-5	Carbon disulfide
	3	1.00600	5.91999e4	1.69933e-5	
	4	2.00800	1.59048e5	1.26251e-5	
	5	4.98900	7.22502e5	6.90517e-6	
	6	9.88000	2.66378e6	3.70901e-6	

More compound-specific settings:

Compound: Carbon disulfide
Time Window : From 1.540 min To 1.786 min
Curve Type : Quadratic
Origin : Ignored
Calibration Level Weights:/
Level 2 : 1
Level 3 : 0.25
Level 4 : 0.062749
Level 5 : 0.010165
Level 6 : 0.002592

=====
Peak Sum Table
=====***No Entries in table***
=====

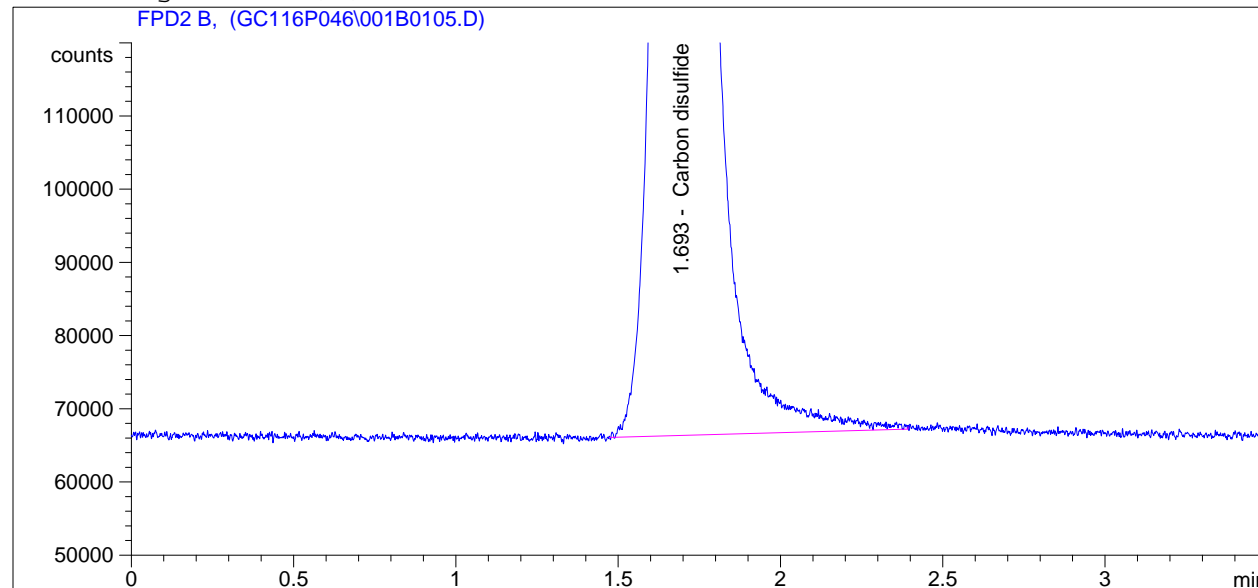
=====
Calibration Curves
=====

Carbon disulfide at exp. RT: 1.686
FPD2 B,
Correlation: 0.99984
Residual Std. Dev.: 15777.54037
Formula: $y = ax^2 + bx + c$
a: 24409.93285
b: 26179.47681
c: 5570.51141
x: Amount
y: Area
Calibration Level Weights:
Level 2 : 1
Level 3 : 0.25
Level 4 : 0.062749
Level 5 : 0.010165
Level 6 : 0.002592

=====

```
=====
Acq. Operator   : JBB                               Seq. Line :    1
Acq. Instrument : Instrument 1                       Location  : Vial 1
Injection Date  : 7/29/2011 1:46:52 AM              Inj       :    5
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.693	BB	2.63100e6	3.74326e-6	9.84852		Carbon disulfide

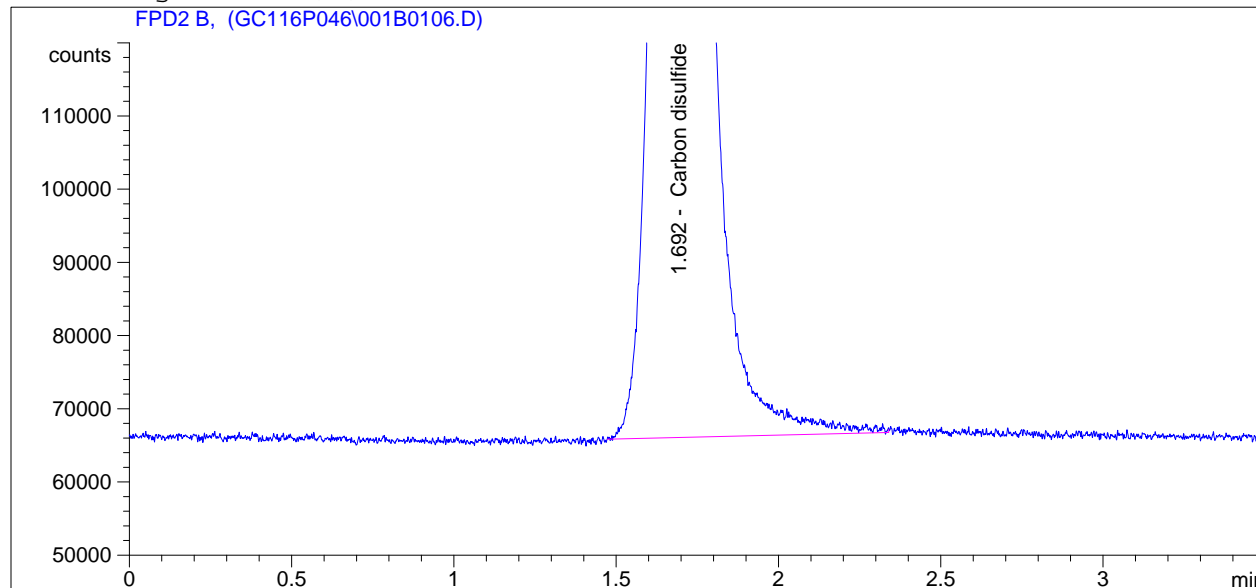
Totals : 9.84852

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : JBB                               Seq. Line :    1
Acq. Instrument : Instrument 1                       Location  : Vial 1
Injection Date  : 7/29/2011 1:53:06 AM              Inj       :    6
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

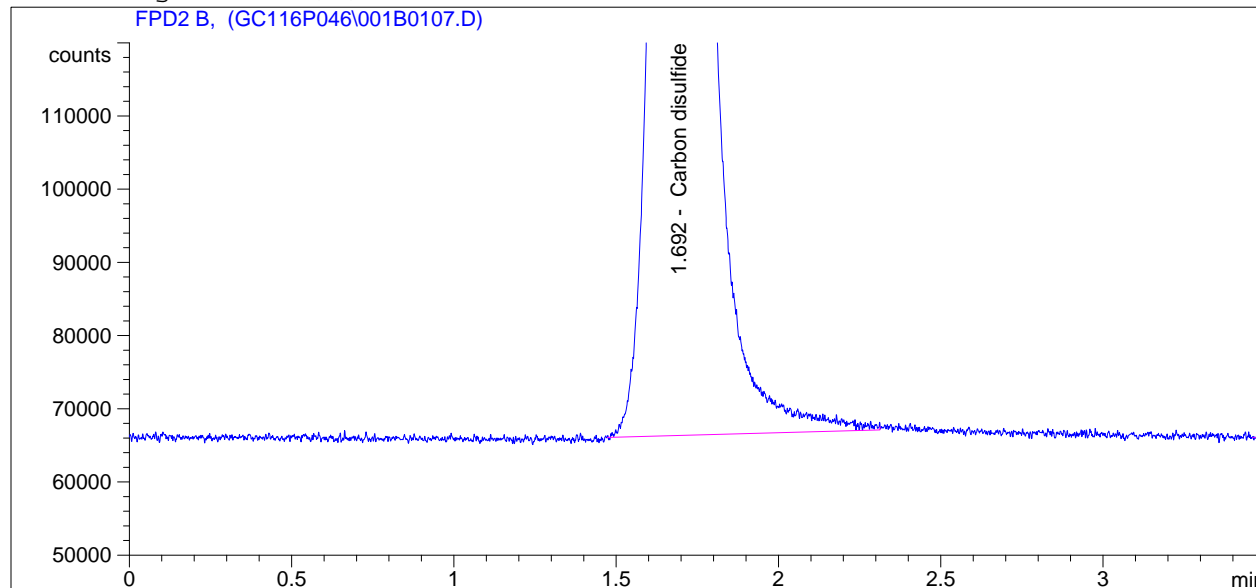
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.692	BB	2.41812e6	3.89549e-6	9.41978		Carbon disulfide

Totals : 9.41978

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    1
Acq. Instrument : Instrument 1                       Location  : Vial 1
Injection Date  : 7/29/2011 1:59:19 AM              Inj       :    7
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

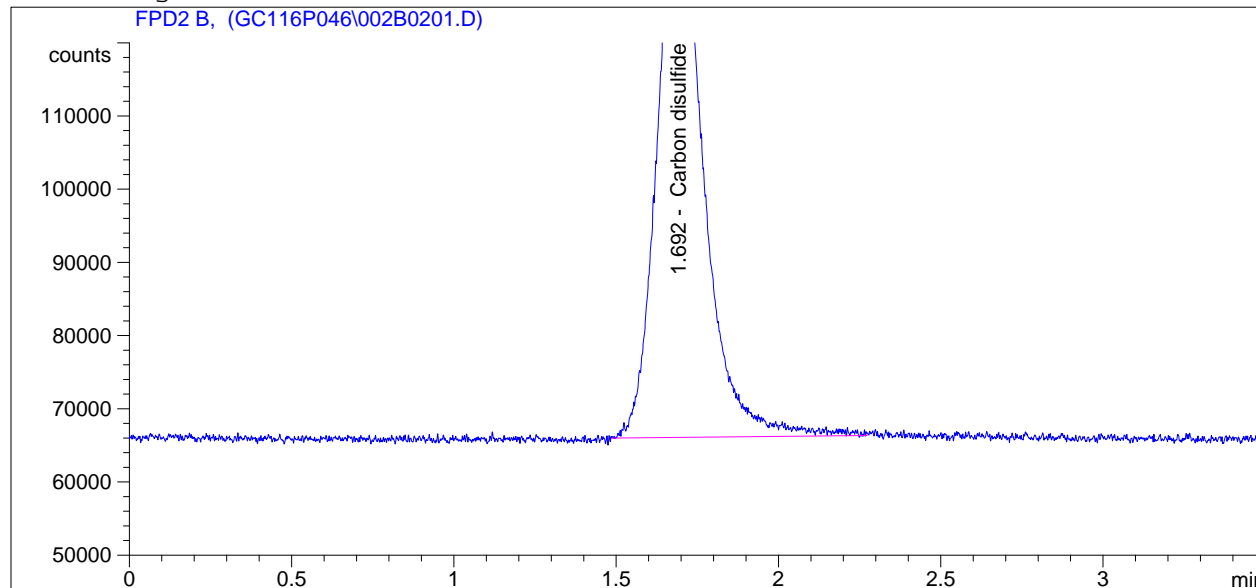
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.692	BB	2.53207e6	3.81171e-6	9.65152		Carbon disulfide

Totals : 9.65152

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    2
Acq. Instrument : Instrument 1                       Location  : Vial 2
Injection Date  : 7/29/2011 2:05:38 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

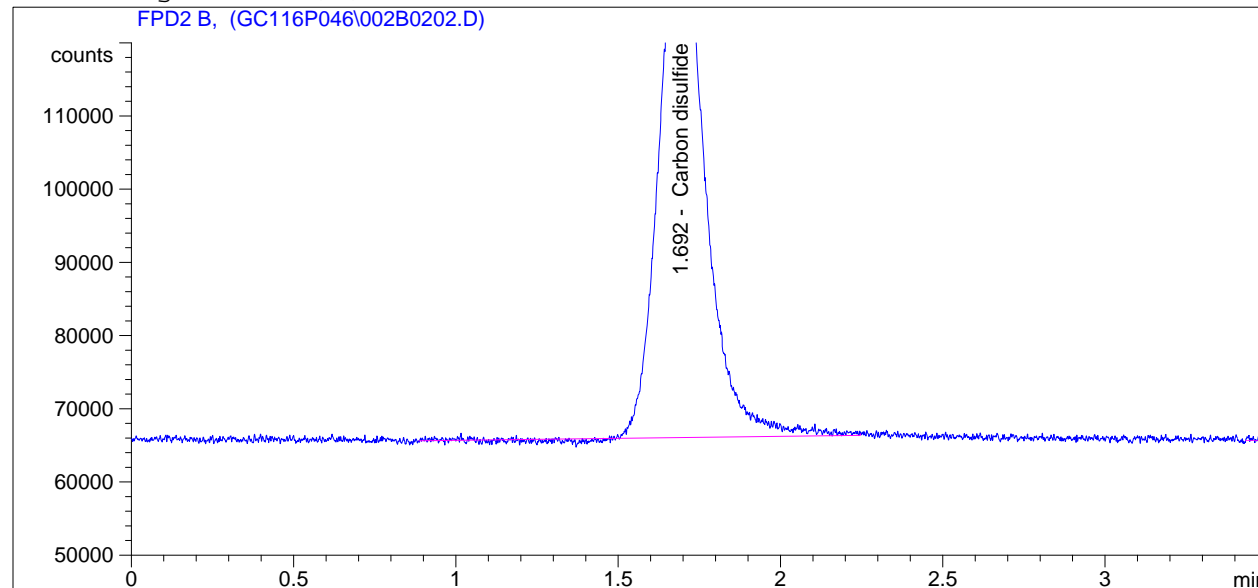
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.692	BB	7.41109e5	6.71860e-6	4.97921	--	Carbon disulfide

Totals : 4.97921

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    2
Acq. Instrument : Instrument 1                       Location  : Vial 2
Injection Date  : 7/29/2011 2:11:52 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

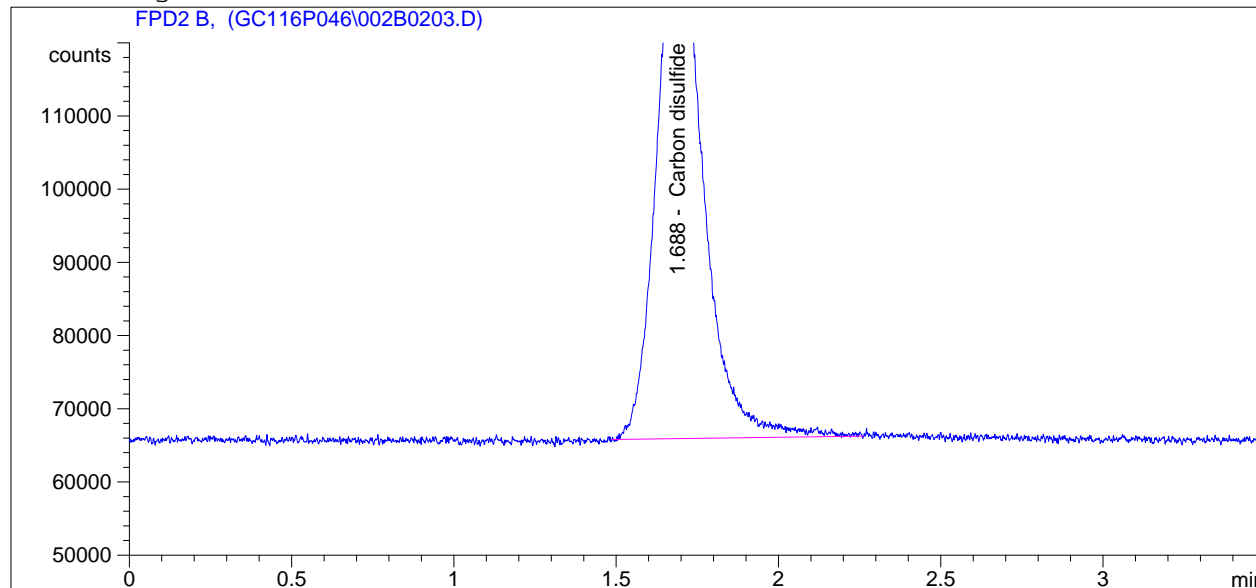
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.692	BB	7.08677e5	6.85421e-6	4.85742		Carbon disulfide

Totals : 4.85742

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    2
Acq. Instrument : Instrument 1                       Location  : Vial 2
Injection Date  : 7/29/2011 2:18:06 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

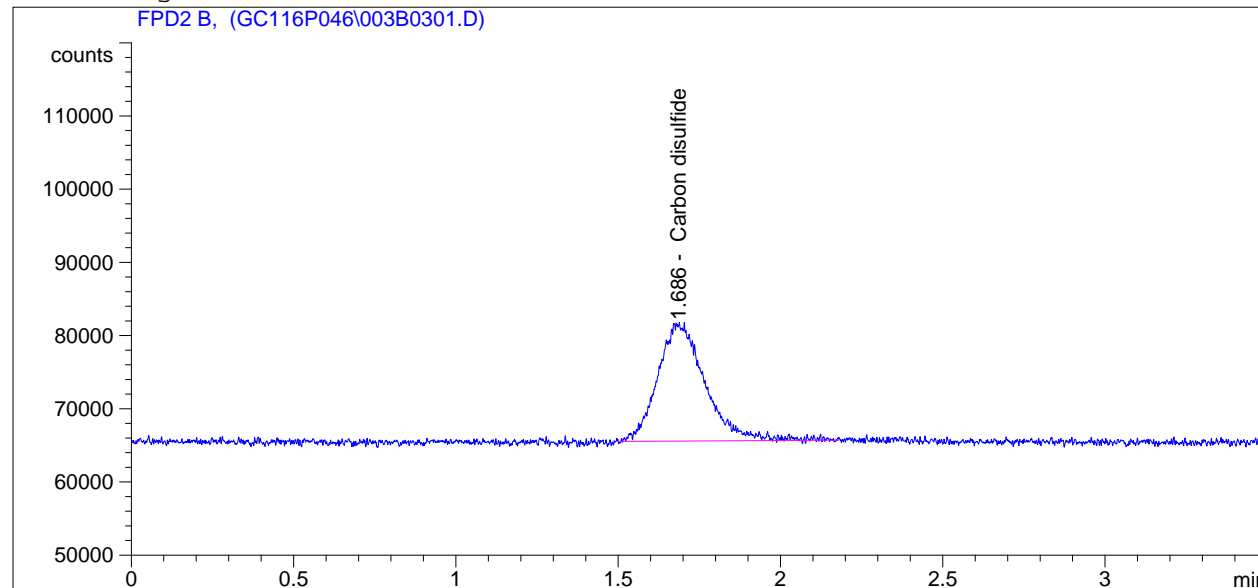
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.688	BB	7.17721e5	6.81555e-6	4.89166		Carbon disulfide

Totals : 4.89166

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    3
Acq. Instrument : Instrument 1                       Location  : Vial 3
Injection Date  : 7/29/2011 2:49:22 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

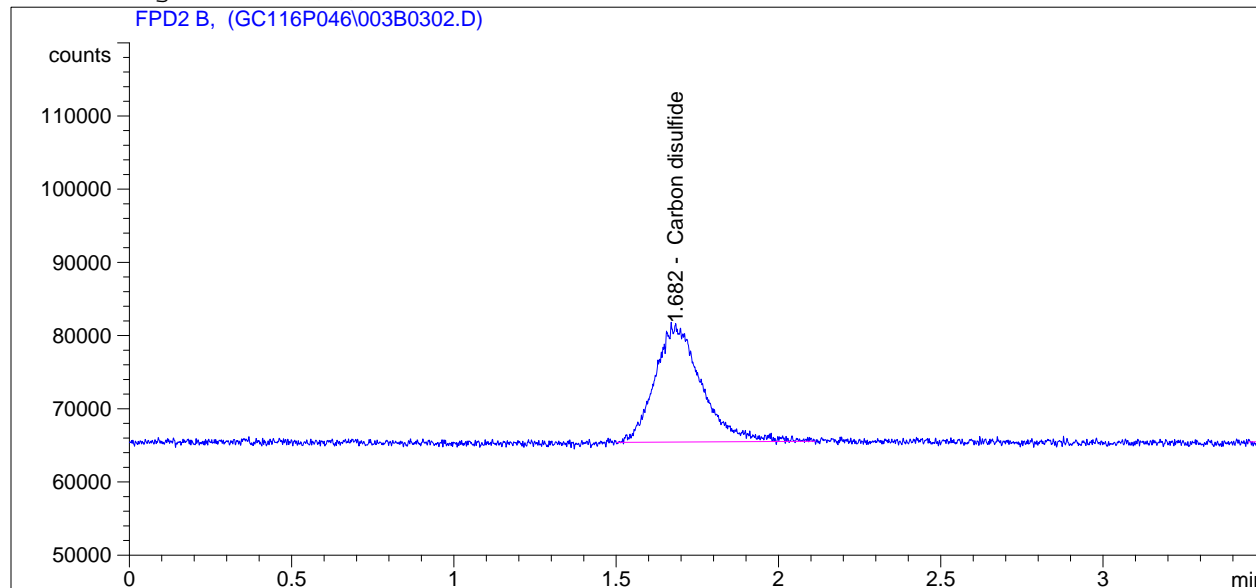
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.686	BB	1.62479e5	1.26491e-5	2.05520	--	Carbon disulfide

Totals : 2.05520

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                      Seq. Line :    3
Acq. Instrument : Instrument 1              Location  : Vial 3
Injection Date  : 7/29/2011 2:55:37 AM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

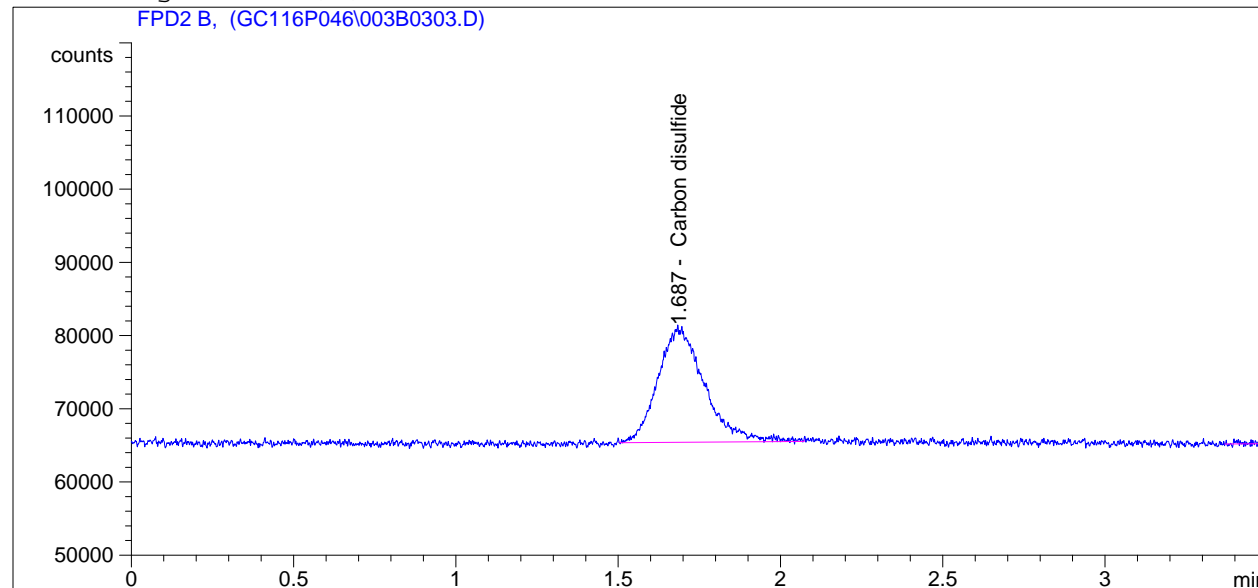
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.682	BB	1.59396e5	1.27401e-5	2.03072	--	Carbon disulfide

Totals : 2.03072

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    3
Acq. Instrument : Instrument 1                       Location  : Vial 3
Injection Date  : 7/29/2011 3:01:53 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.687	BB	1.55270e5	1.28652e-5	1.99759		Carbon disulfide

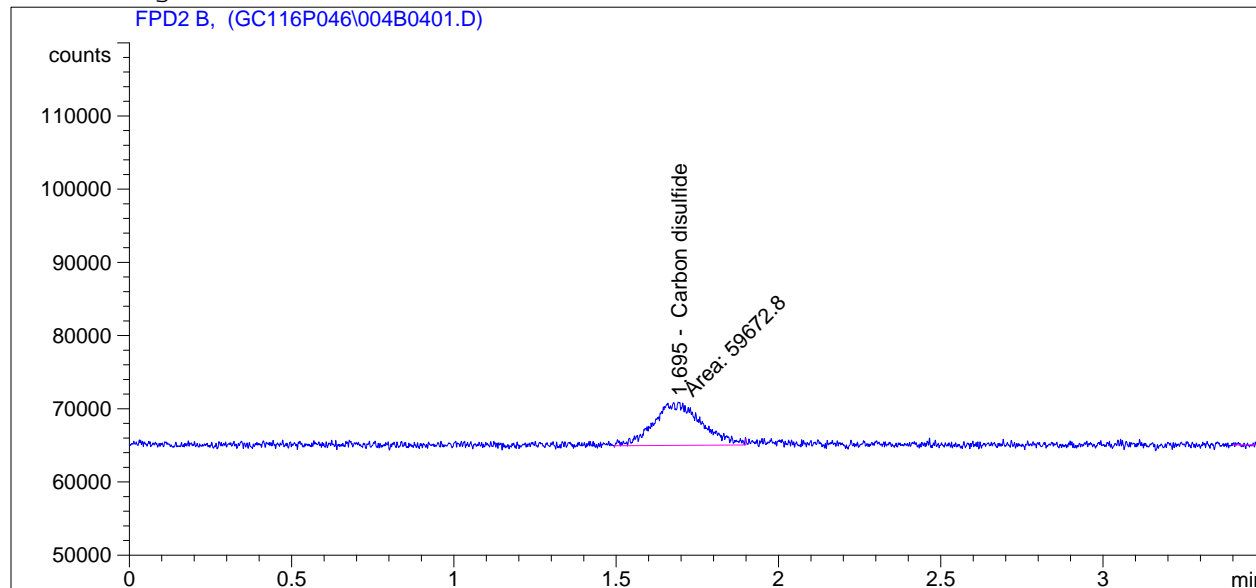
Totals : 1.99759

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : JBB                               Seq. Line :    4
Acq. Instrument : Instrument 1                       Location  : Vial 4
Injection Date  : 7/29/2011 3:33:07 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

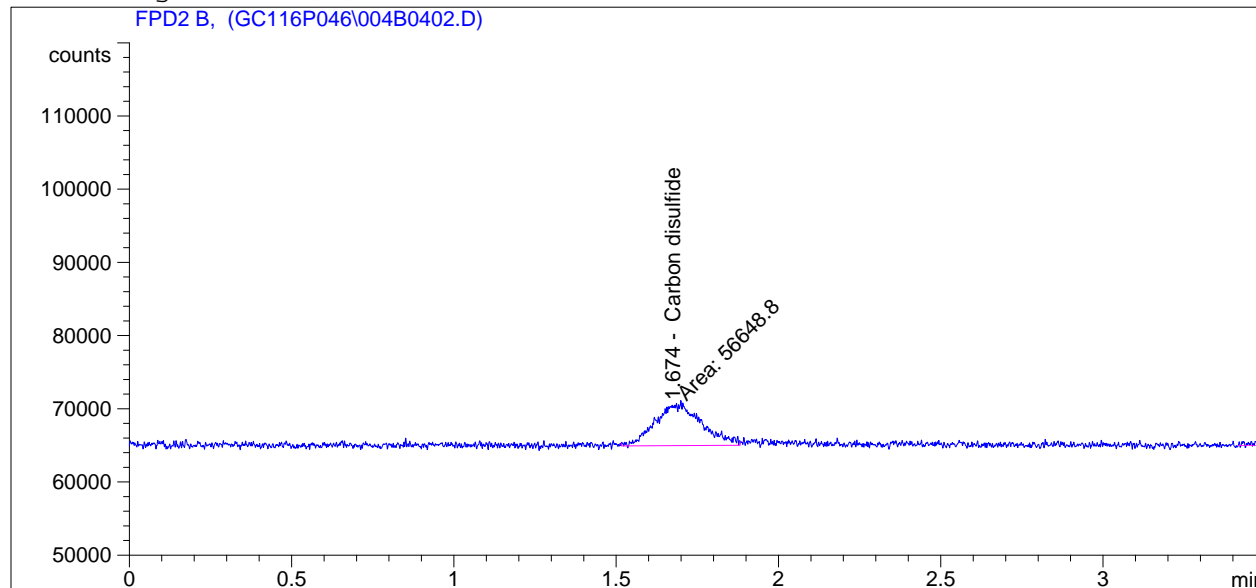
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.695	MM	5.96728e4	1.75314e-5	1.04615	--	Carbon disulfide

Totals : 1.04615

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    4
Acq. Instrument : Instrument 1                       Location  : Vial 4
Injection Date  : 7/29/2011 3:39:20 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

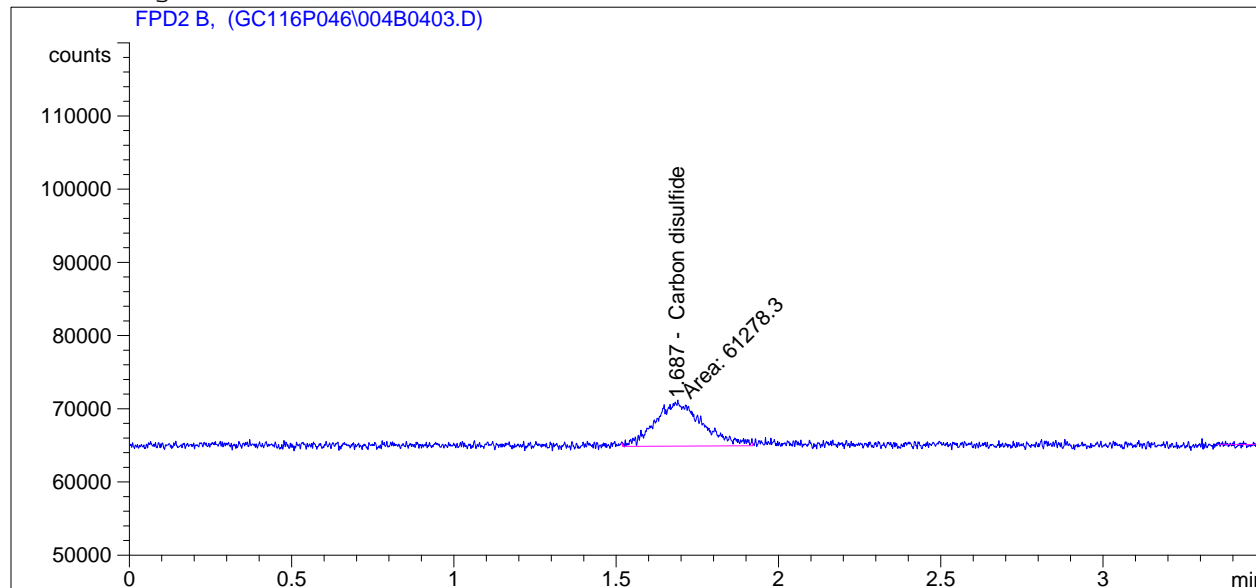
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.674	MM	5.66488e4	1.77674e-5	1.00650	--	Carbon disulfide

Totals : 1.00650

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    4
Acq. Instrument : Instrument 1                       Location  : Vial 4
Injection Date  : 7/29/2011 3:45:35 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

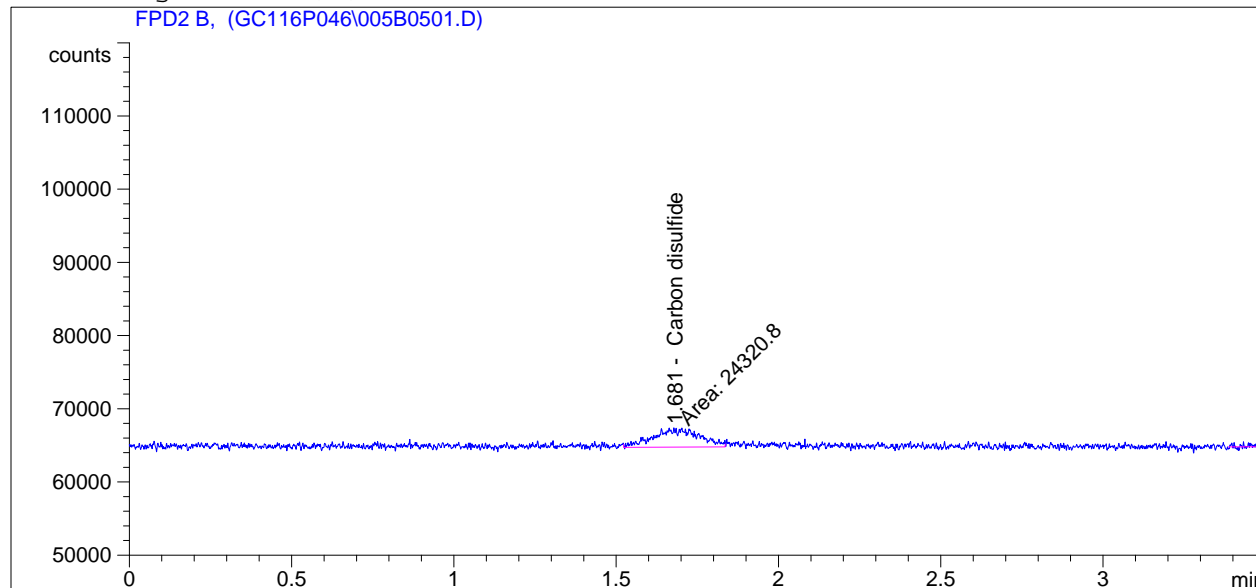
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.687	MM	6.12783e4	1.74090e-5	1.06679	--	Carbon disulfide

Totals : 1.06679

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    5
Acq. Instrument : Instrument 1                       Location  : Vial 5
Injection Date  : 7/29/2011 4:16:51 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

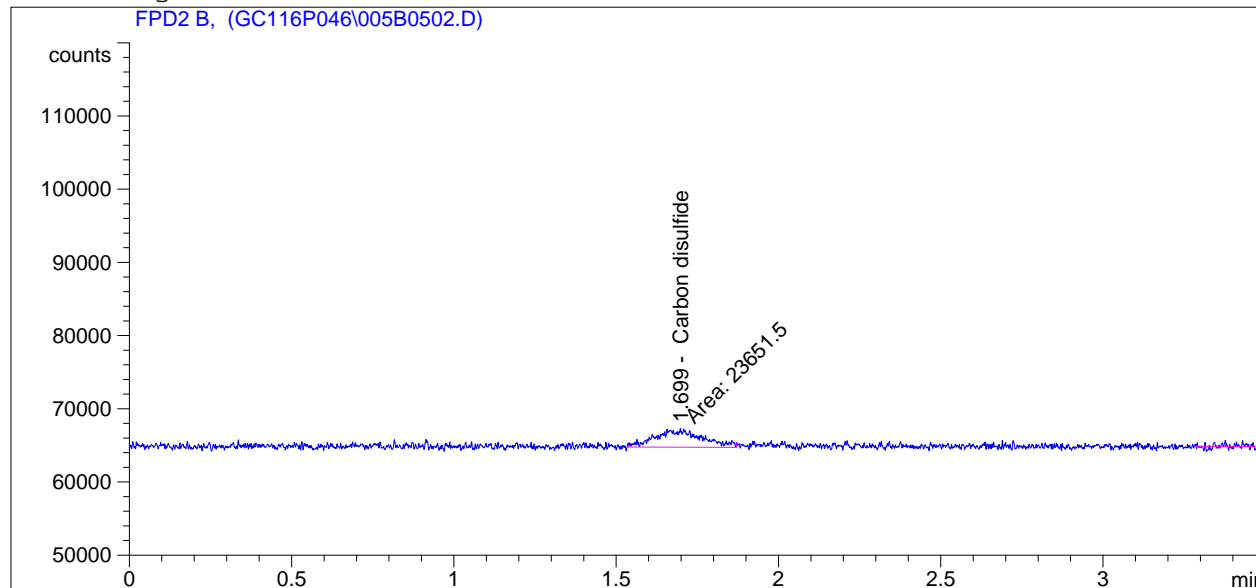
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.681	MM	2.43208e4	2.01889e-5	4.91010e-1	--	Carbon disulfide

Totals : 4.91010e-1

```
=====
                        *** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    5
Acq. Instrument : Instrument 1                       Location  : Vial 5
Injection Date  : 7/29/2011 4:23:06 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

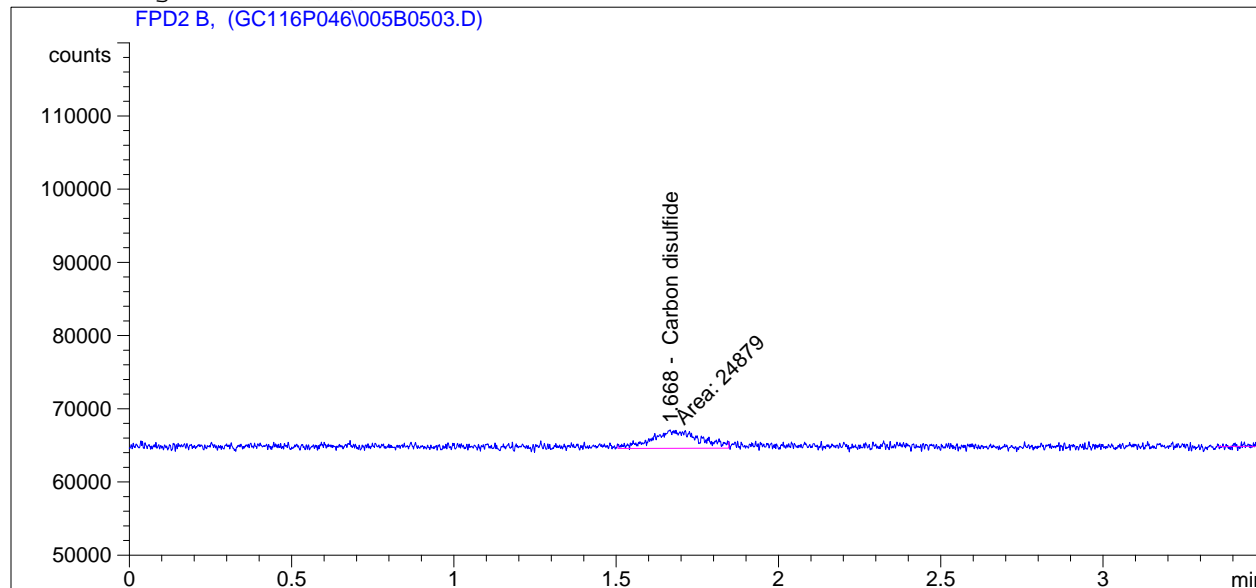
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.699	MM	2.36515e4	2.01889e-5	4.77497e-1	--	Carbon disulfide

Totals : 4.77497e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    5
Acq. Instrument : Instrument 1                       Location  : Vial 5
Injection Date  : 7/29/2011 4:29:22 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.668	MM	2.48790e4	2.01889e-5	5.02279e-1	--	Carbon disulfide

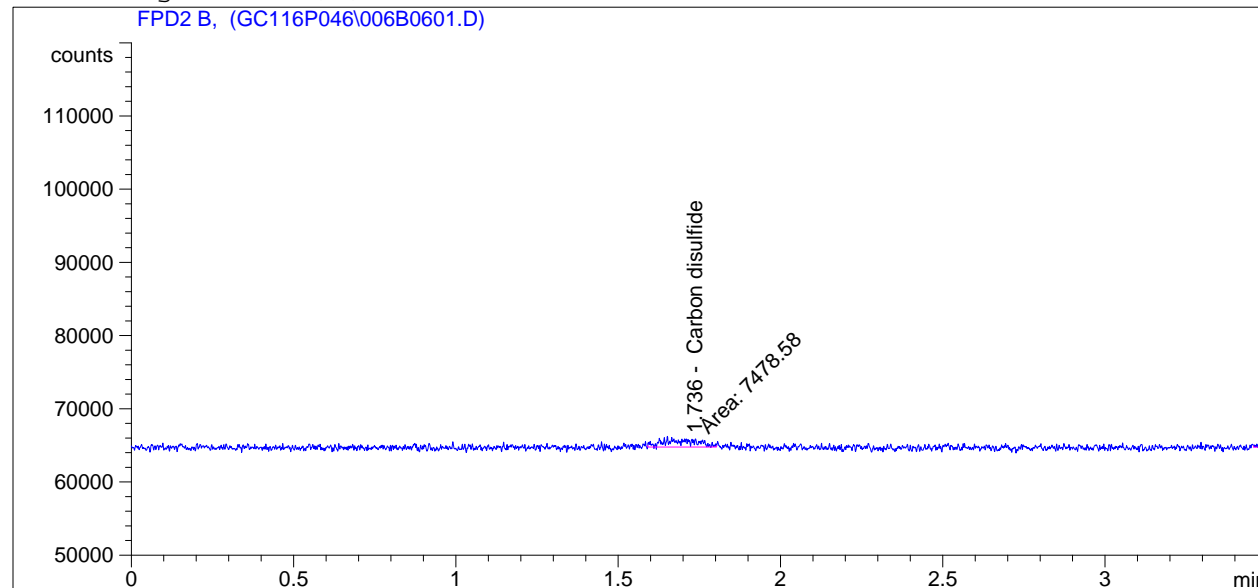
Totals : 5.02279e-1

```
=====
                        *** End of Report ***
=====
```

Sample Name: gc116p46 #1

```
=====
Acq. Operator   : JBB                      Seq. Line :    6
Acq. Instrument : Instrument 1              Location  : Vial 6
Injection Date  : 7/29/2011 5:00:40 AM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

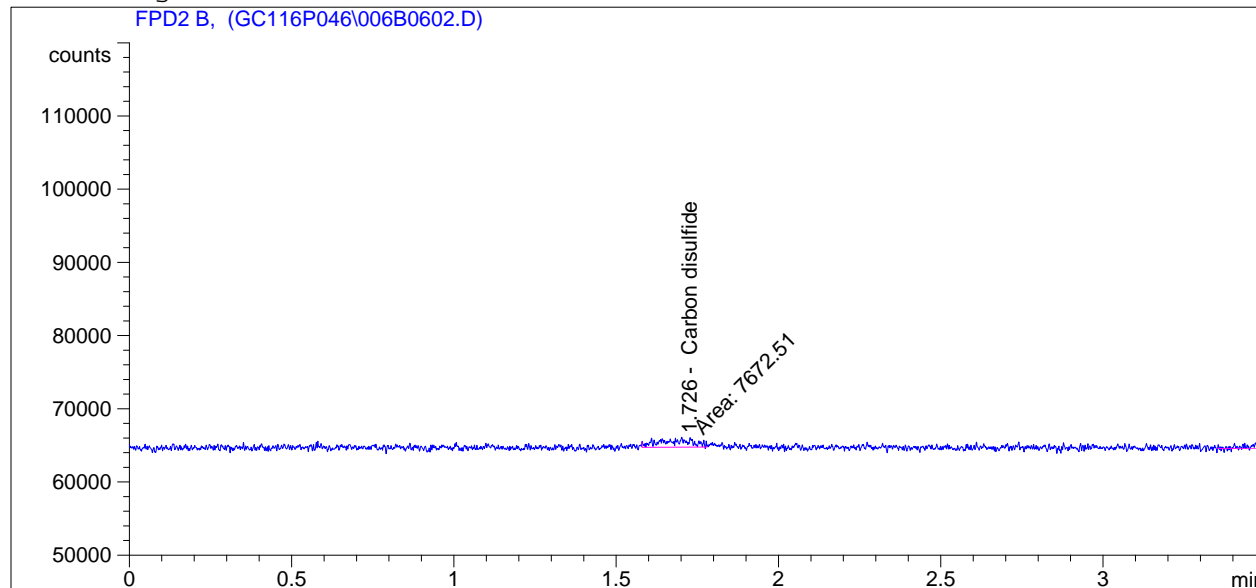
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.736	MM	7478.57715	2.01889e-5	1.50984e-1		Carbon disulfide

Totals : 1.50984e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    6
Acq. Instrument : Instrument 1                       Location  : Vial 6
Injection Date  : 7/29/2011 5:06:56 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/9/2011 4:03:40 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.726	MM	7672.51074	2.01889e-5	1.54899e-1	--	Carbon disulfide

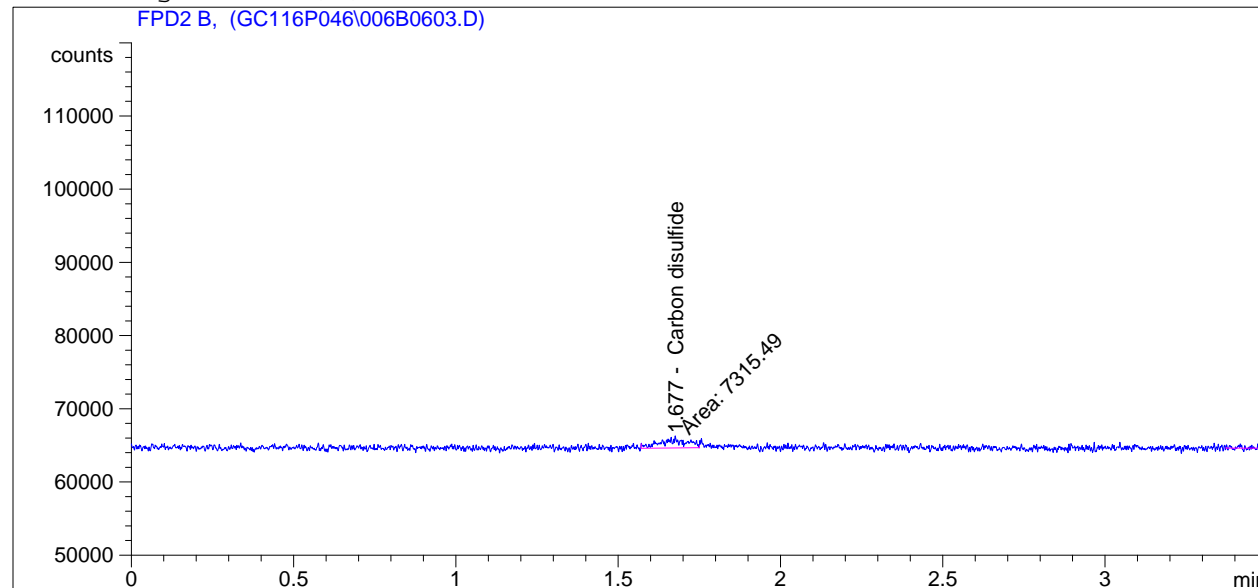
Totals : 1.54899e-1

```
=====
*** End of Report ***
=====
```


Sample Name: gc116p46 #1

```
=====
Acq. Operator   : JBB                               Seq. Line :    6
Acq. Instrument : Instrument 1                       Location  : Vial 6
Injection Date  : 7/29/2011 5:13:10 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.677	MM	7315.49072	2.01889e-5	1.47691e-1	--	Carbon disulfide

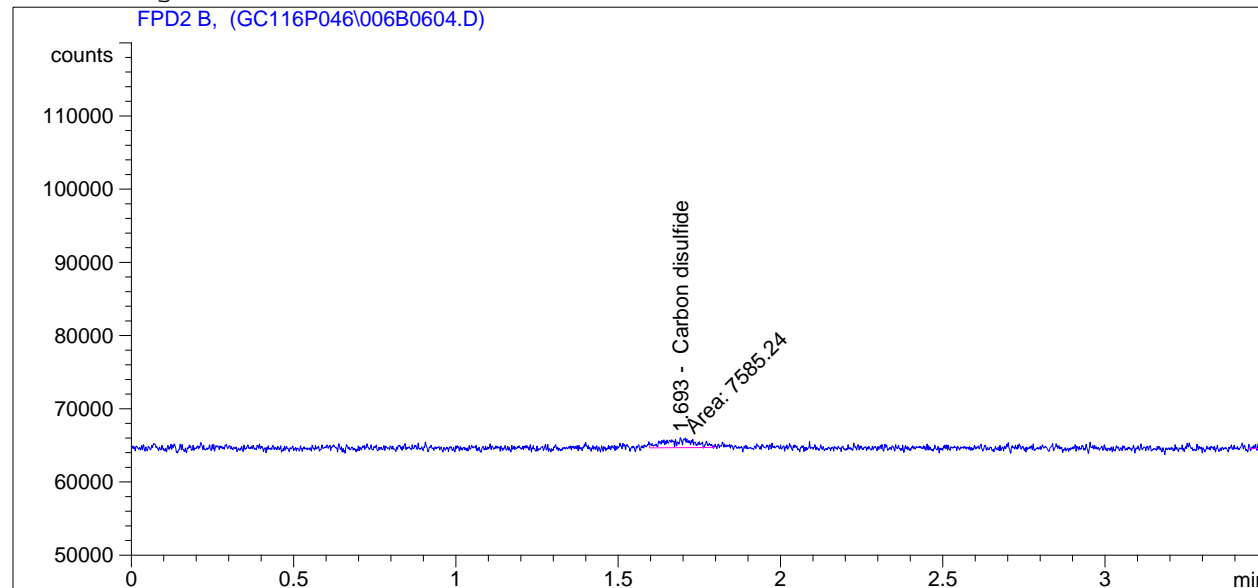
Totals : 1.47691e-1

```
=====
*** End of Report ***
=====
```

Sample Name: gc116p46 #1

```
=====
Acq. Operator   : JBB                               Seq. Line :    6
Acq. Instrument : Instrument 1                       Location  : Vial 6
Injection Date  : 7/29/2011 5:19:25 AM              Inj       :    4
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

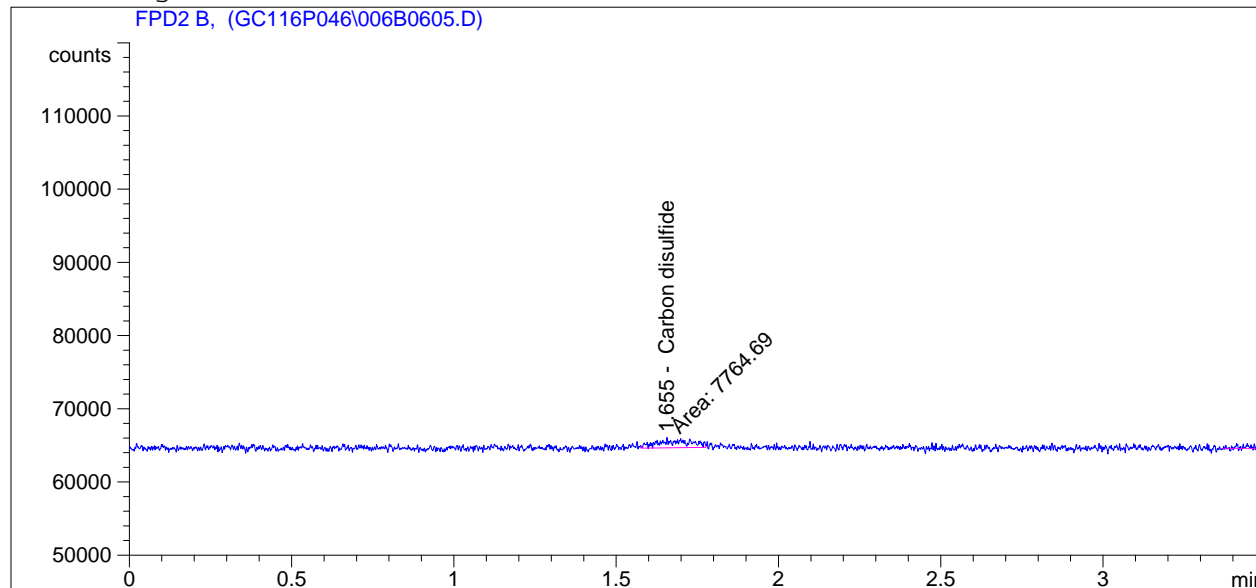
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.693	MM	7585.24219	2.01889e-5	1.53137e-1	--	Carbon disulfide

Totals : 1.53137e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    6
Acq. Instrument : Instrument 1                       Location  : Vial 6
Injection Date  : 7/29/2011 5:25:40 AM              Inj       :    5
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.655	MM	7764.69385	2.01889e-5	1.56760e-1	--	Carbon disulfide

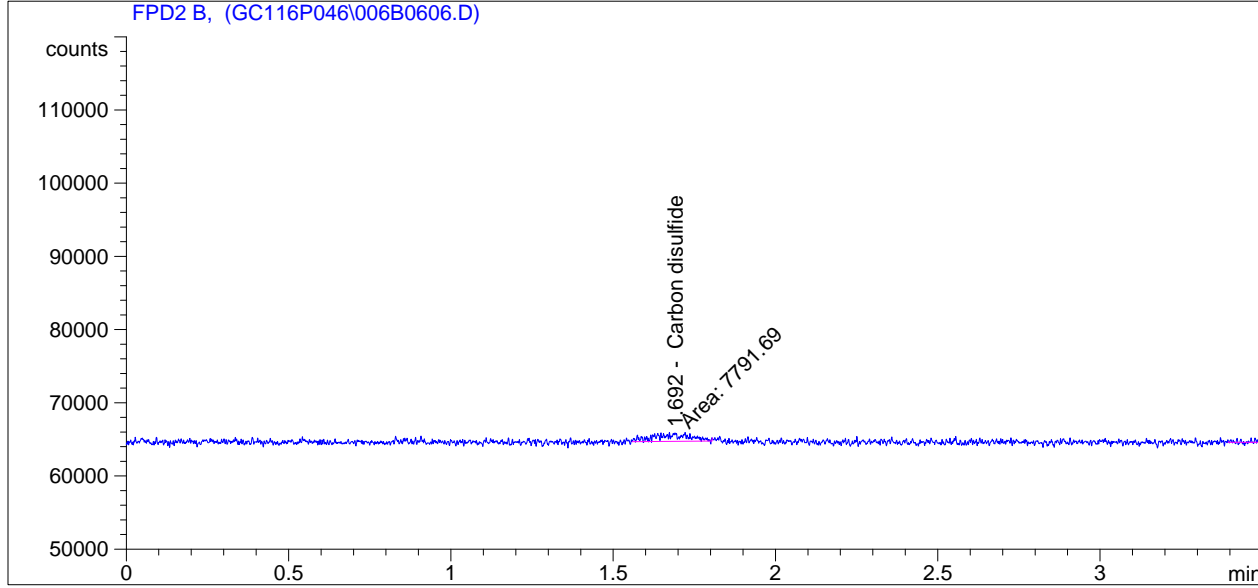
Totals : 1.56760e-1

```
=====
*** End of Report ***
=====
```

Sample Name: gc116p46 #1

```
=====
Acq. Operator   : JBB                               Seq. Line :    6
Acq. Instrument : Instrument 1                       Location  : Vial 6
Injection Date  : 7/29/2011 5:31:56 AM              Inj       :    6
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.692	MM	7791.68994	2.01889e-5	1.57305e-1		Carbon disulfide

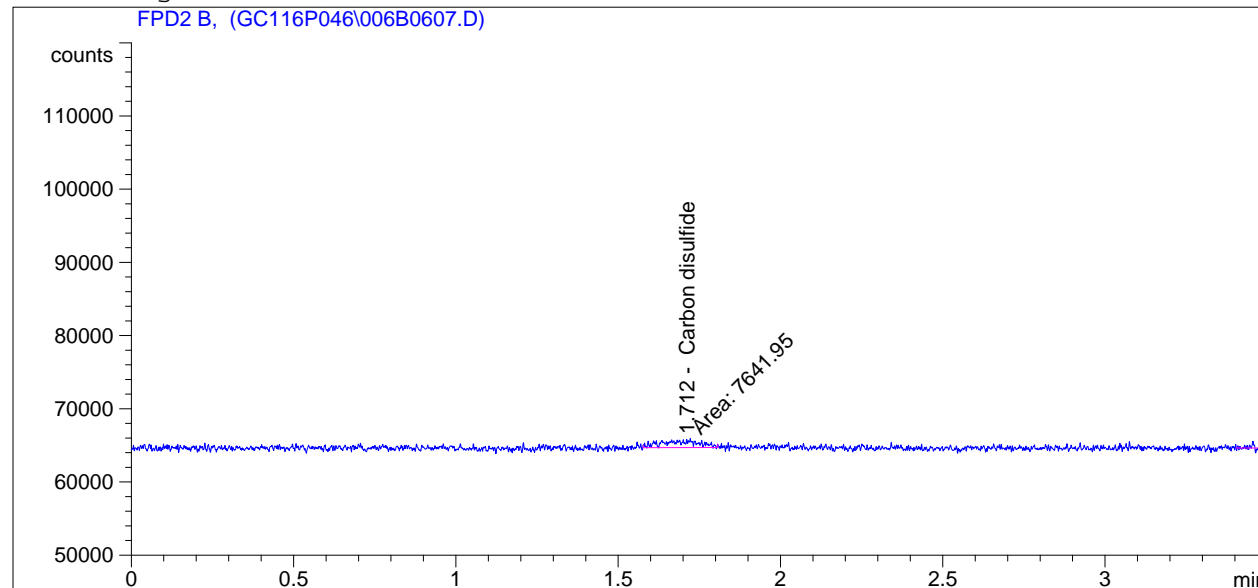
Totals : 1.57305e-1

*** End of Report ***

Sample Name: gc116p46 #1

```
=====
Acq. Operator   : JBB                      Seq. Line :    6
Acq. Instrument : Instrument 1              Location  : Vial 6
Injection Date  : 7/29/2011 5:38:12 AM      Inj       :    7
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 12:48:03 AM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

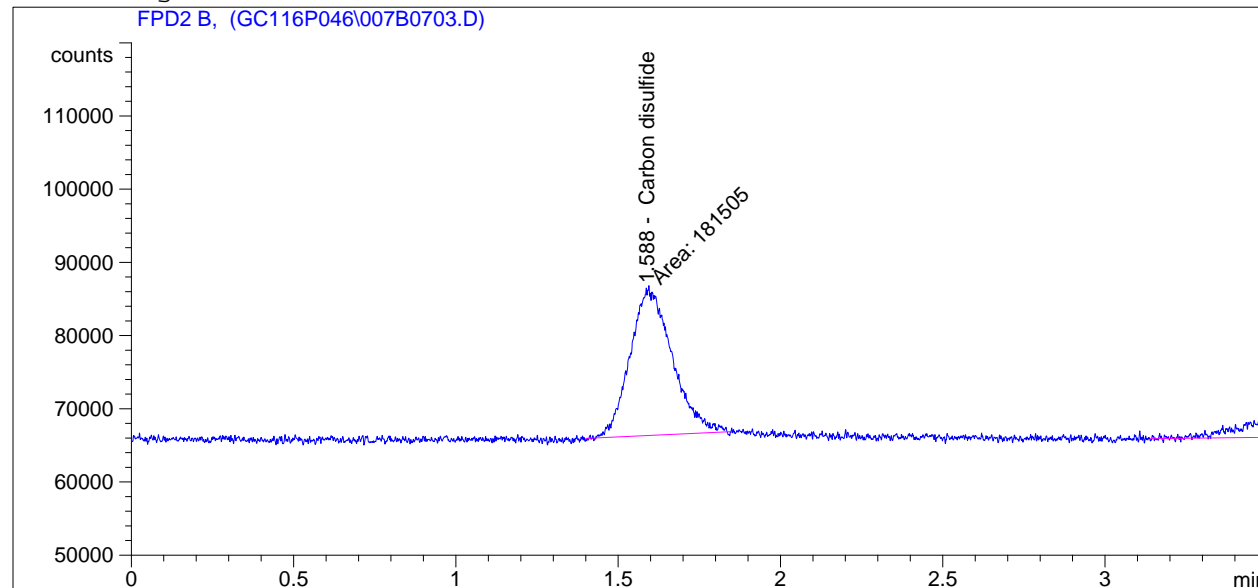
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.712	MM	7641.94678	2.01889e-5	1.54282e-1		Carbon disulfide

Totals : 1.54282e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                      Seq. Line :    7
Acq. Instrument : Instrument 1              Location  : Vial 7
Injection Date  : 7/29/2011 5:22:17 PM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 5:03:51 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

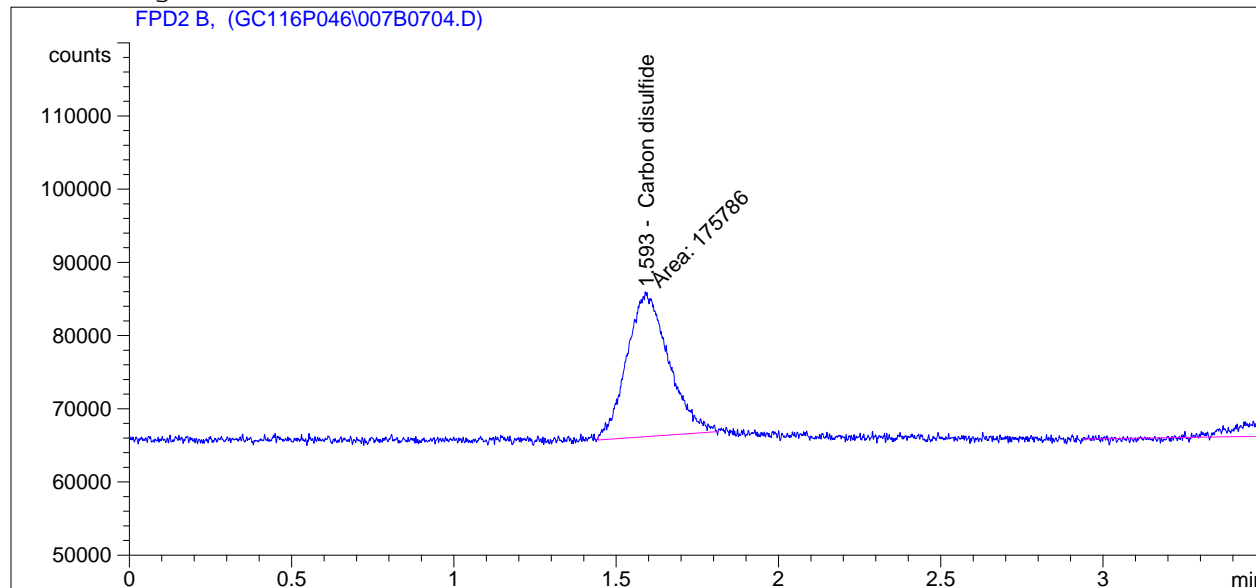
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.588	MM	1.81505e5	1.21289e-5	2.20146	--	Carbon disulfide

Totals : 2.20146

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    7
Acq. Instrument : Instrument 1                       Location  : Vial 7
Injection Date  : 7/29/2011 5:28:28 PM              Inj       :    4
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 5:03:51 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

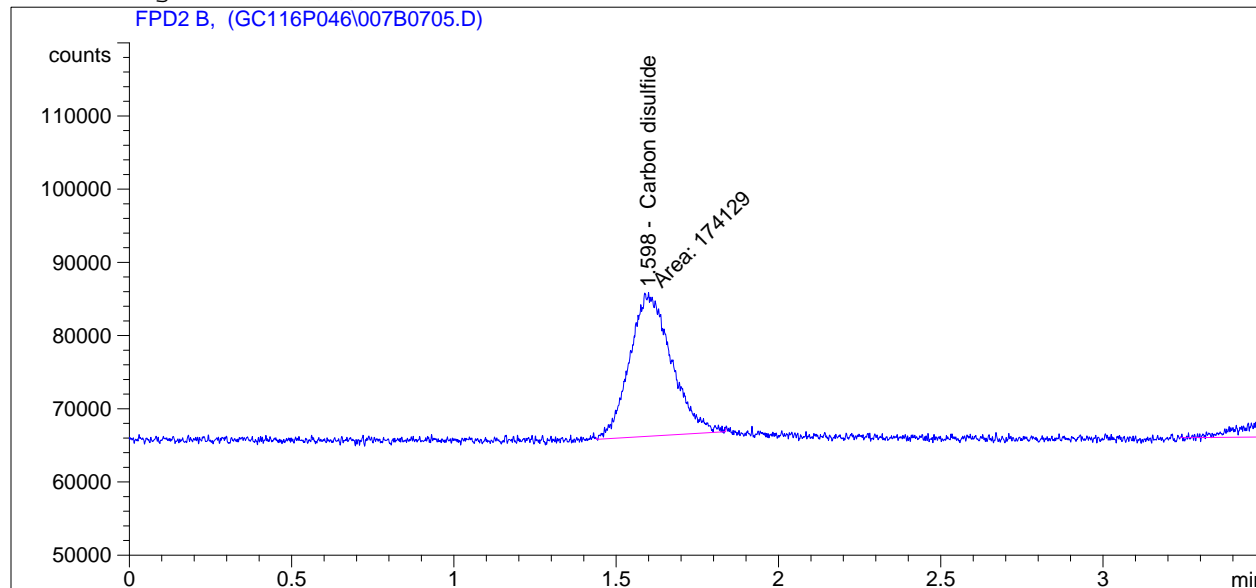
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.593	MM	1.75786e5	1.22782e-5	2.15833	--	Carbon disulfide

Totals : 2.15833

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :    7
Acq. Instrument : Instrument 1                       Location  : Vial 7
Injection Date  : 7/29/2011 5:34:42 PM              Inj       :    5
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 5:03:51 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.598	MM	1.74129e5	1.23225e-5	2.14571	--	Carbon disulfide

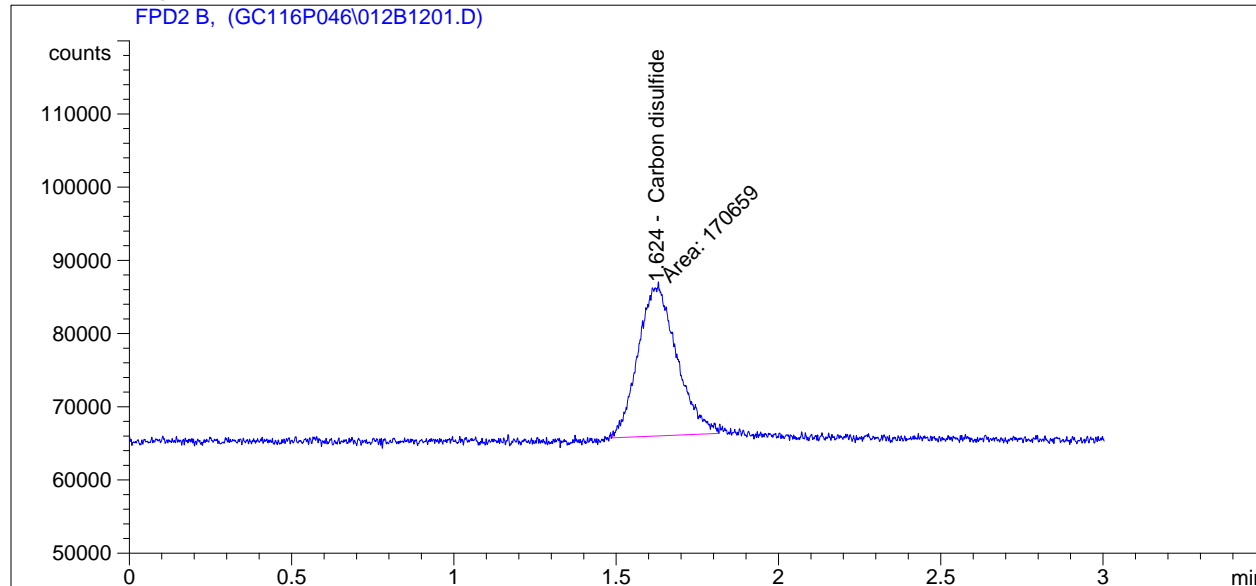
Totals : 2.14571

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : JBB                               Seq. Line :   12
Acq. Instrument : Instrument 1                       Location  : Vial 12
Injection Date  : 7/29/2011 9:46:11 PM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

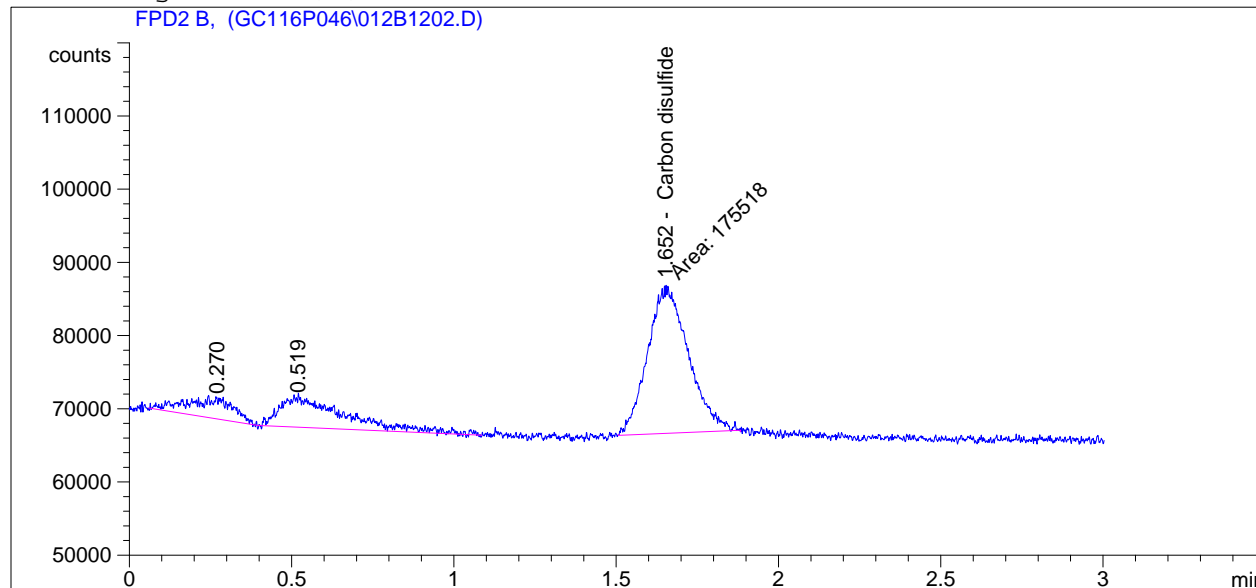
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.624	MM	1.70659e5	1.24170e-5	2.11908		Carbon disulfide

Totals : 2.11908

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   12
Acq. Instrument : Instrument 1                       Location  : Vial 12
Injection Date  : 7/29/2011 9:50:22 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

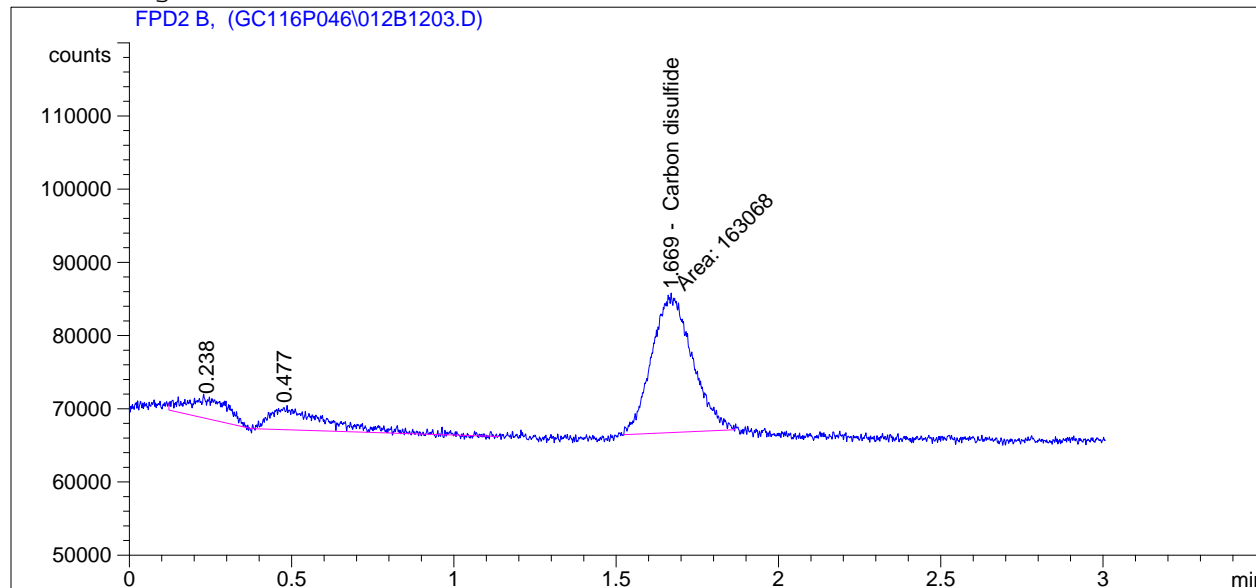
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.652	MM	1.75518e5	1.22853e-5	2.15630	--	Carbon disulfide

Totals : 2.15630

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   12
Acq. Instrument : Instrument 1                       Location  : Vial 12
Injection Date  : 7/29/2011 9:54:34 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

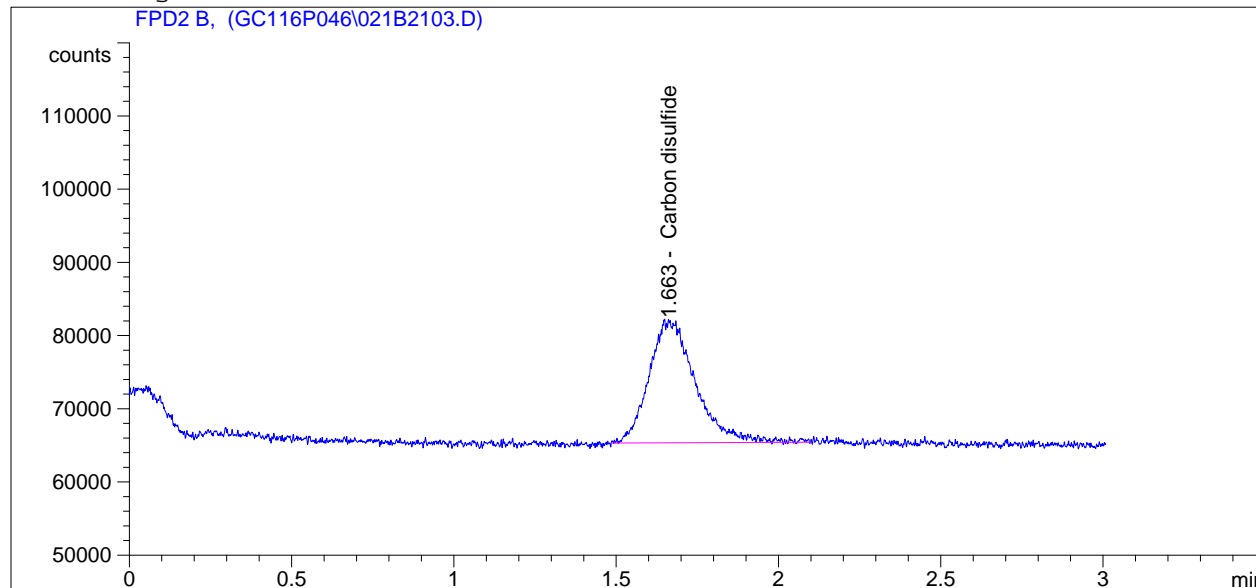
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.669	MM	1.63068e5	1.26319e-5	2.05986	--	Carbon disulfide

Totals : 2.05986

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   21
Acq. Instrument : Instrument 1                       Location  : Vial 21
Injection Date  : 7/30/2011 1:04:25 AM                Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

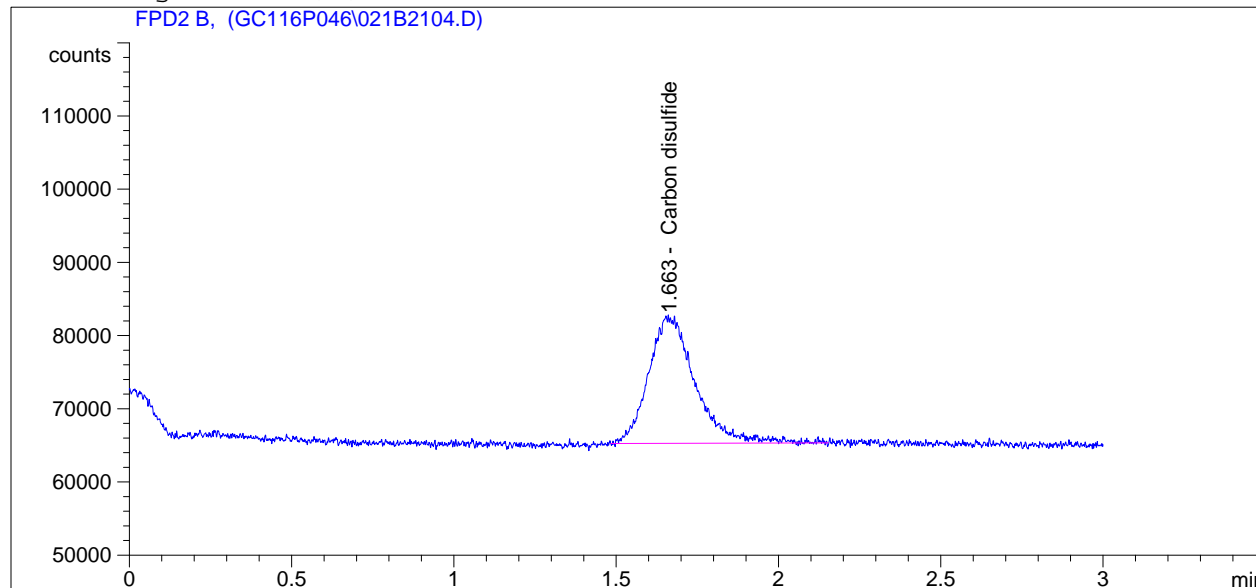
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.663	BB	1.65739e5	1.25550e-5	2.08085		Carbon disulfide

Totals : 2.08085

```
=====
                        *** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   21
Acq. Instrument : Instrument 1                       Location  : Vial 21
Injection Date  : 7/30/2011 1:08:37 AM                Inj       :    4
                                                Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

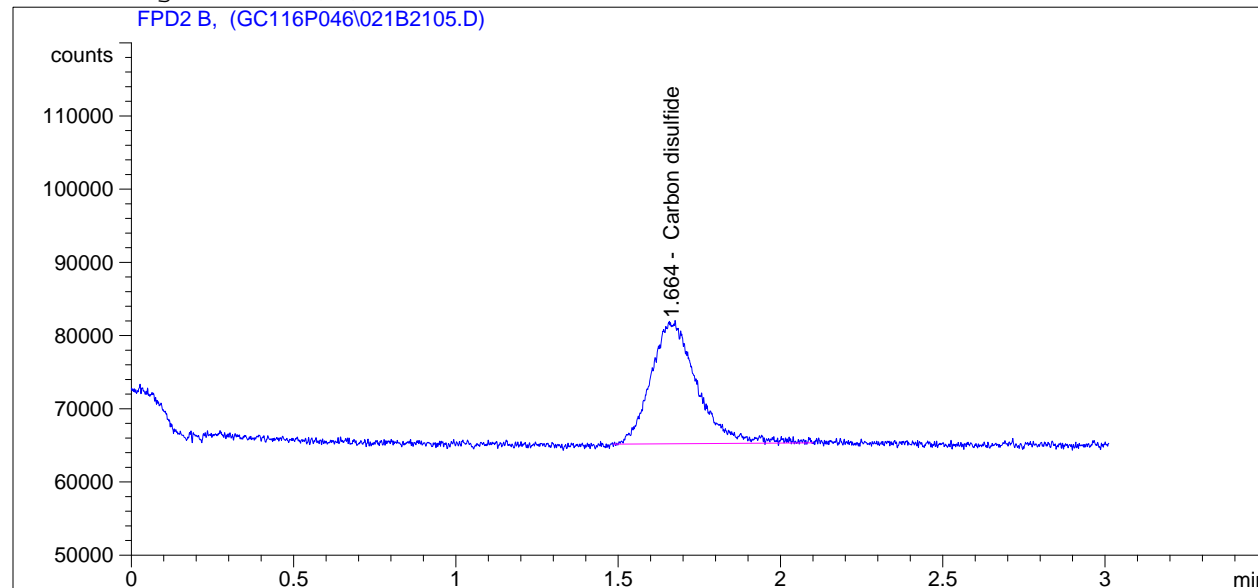
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.663	BB	1.72038e5	1.23792e-5	2.12969		Carbon disulfide

Totals : 2.12969

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   21
Acq. Instrument : Instrument 1                       Location  : Vial 21
Injection Date  : 7/30/2011 1:12:54 AM              Inj       :    5
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

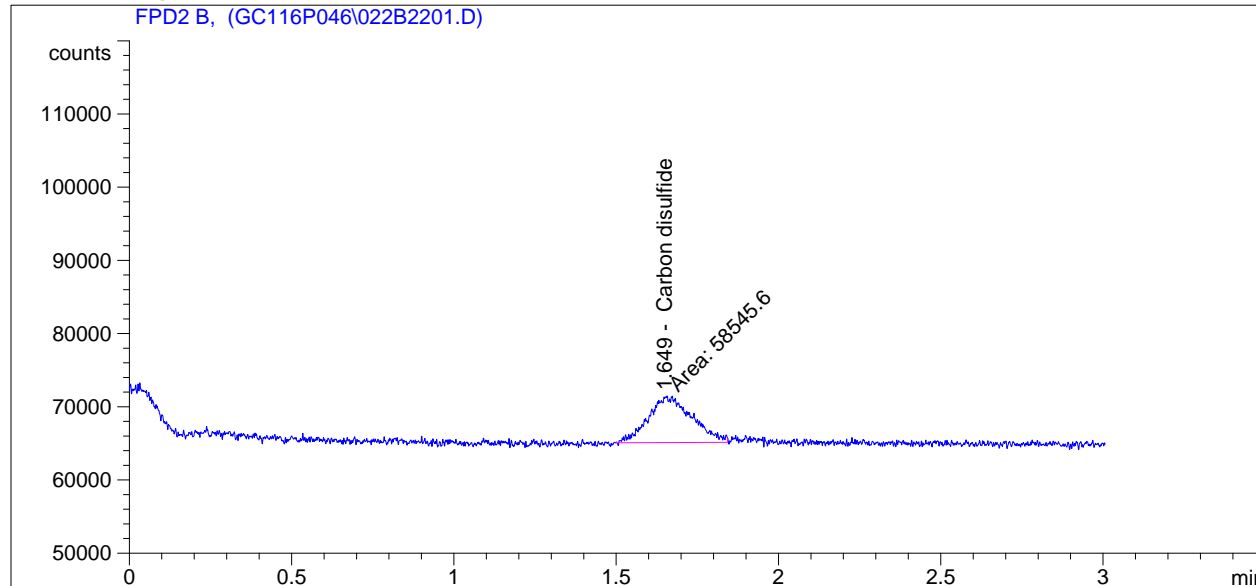
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.664	BB	1.64306e5	1.25960e-5	2.06961	--	Carbon disulfide

Totals : 2.06961

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   22
Acq. Instrument : Instrument 1                       Location  : Vial 22
Injection Date  : 7/30/2011 1:17:05 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

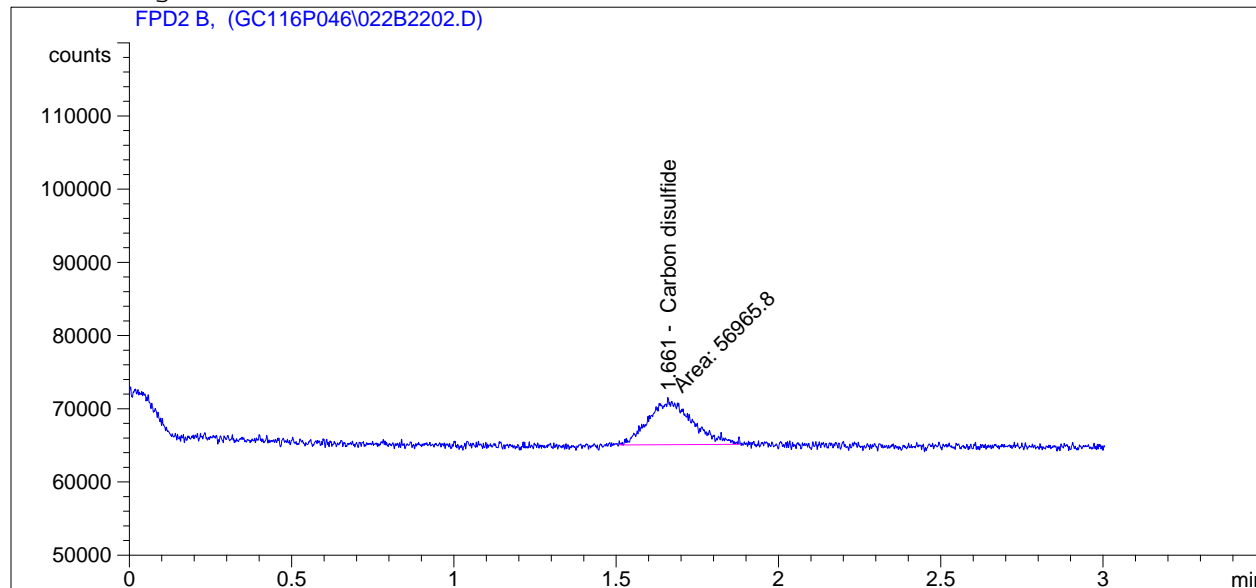
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.649	MM	5.85456e4	1.76185e-5	1.03149	--	Carbon disulfide

Totals : 1.03149

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   22
Acq. Instrument : Instrument 1                       Location  : Vial 22
Injection Date  : 7/30/2011 1:21:16 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.661	MM	5.69658e4	1.77424e-5	1.01071		Carbon disulfide

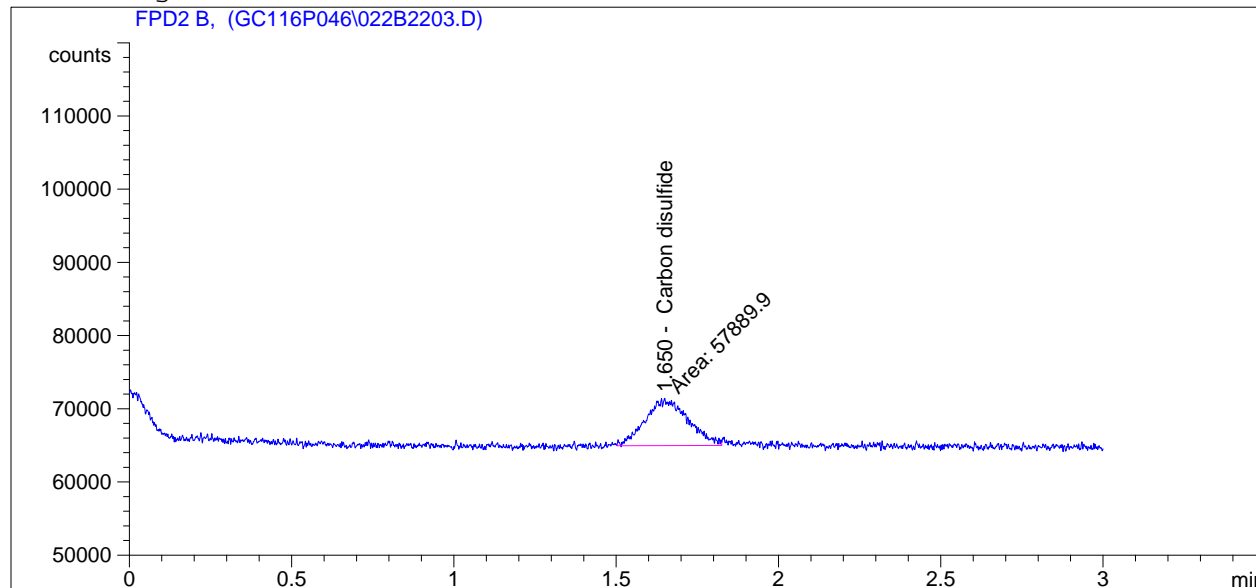
Totals : 1.01071

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : JBB                               Seq. Line :   22
Acq. Instrument : Instrument 1                       Location  : Vial 22
Injection Date  : 7/30/2011 1:25:27 AM                Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

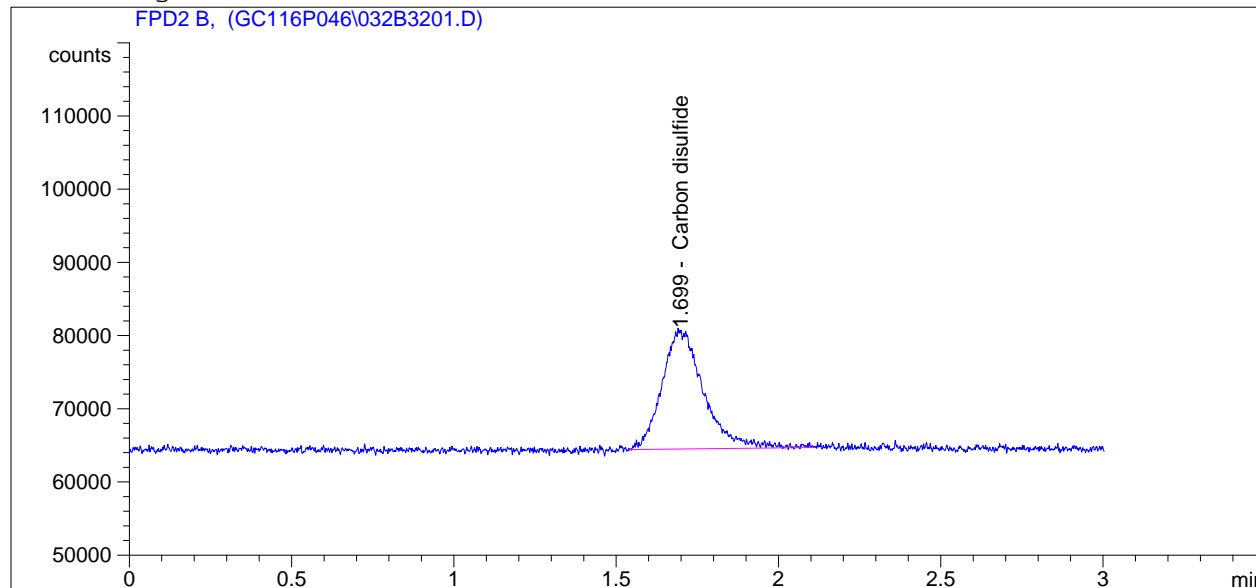
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.650	MM	5.78899e4	1.76697e-5	1.02290	--	Carbon disulfide

Totals : 1.02290

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   32
Acq. Instrument : Instrument 1                       Location  : Vial 32
Injection Date  : 7/30/2011 4:47:34 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

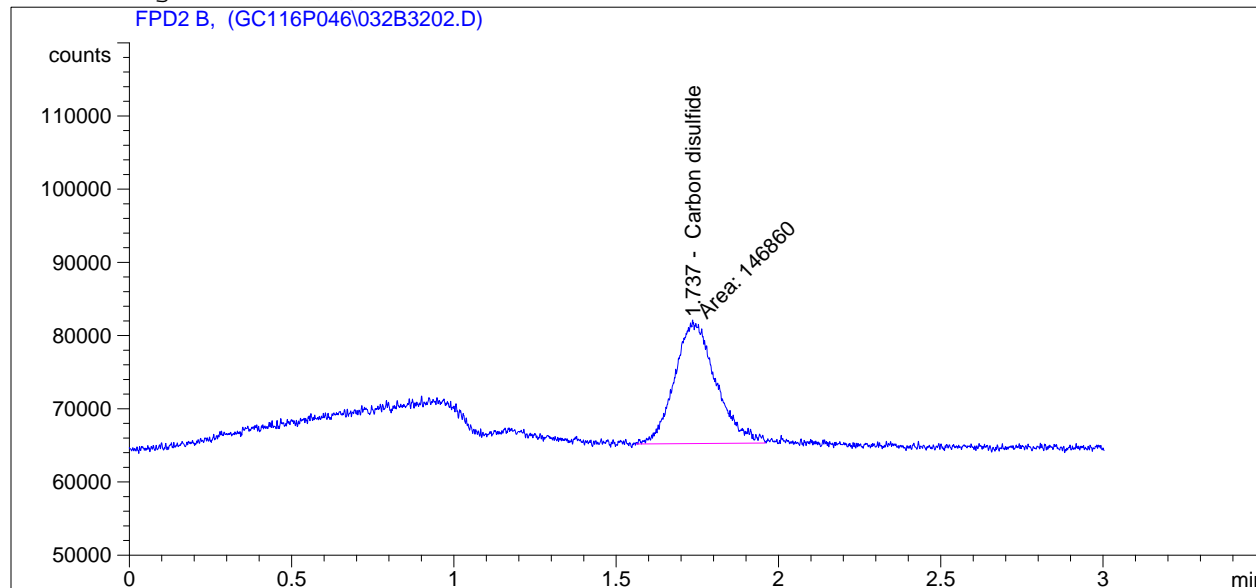
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.699	BB	1.45771e5	1.31685e-5	1.91959	--	Carbon disulfide

Totals : 1.91959

```
=====
                        *** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   32
Acq. Instrument : Instrument 1                       Location  : Vial 32
Injection Date  : 7/30/2011 4:51:50 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

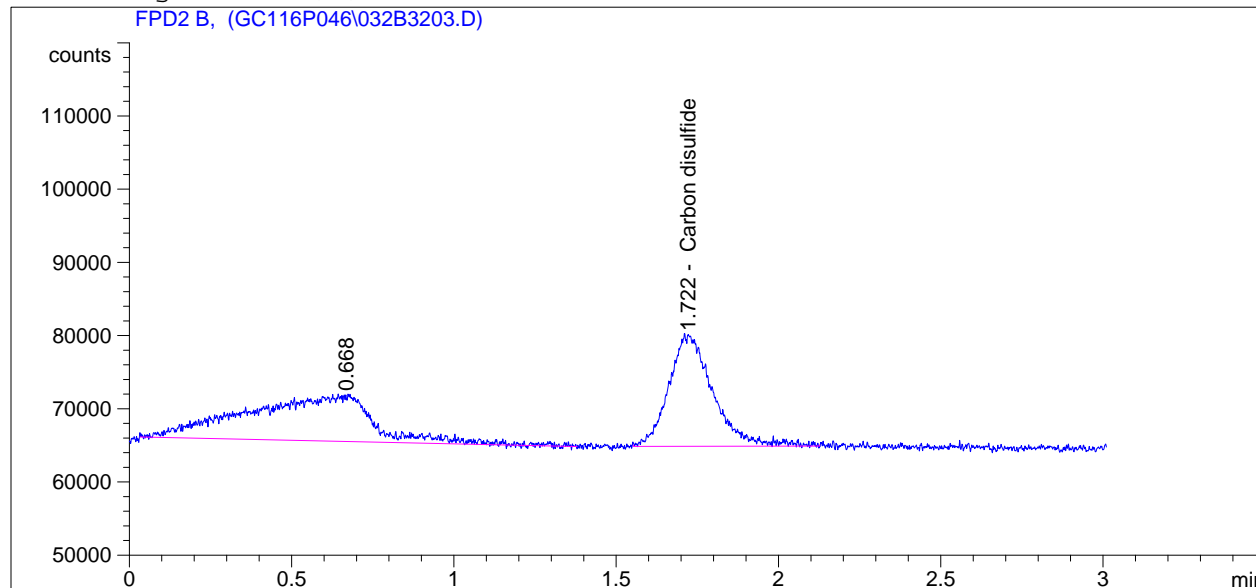
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.737	MM	1.46860e5	1.31326e-5	1.92866	--	Carbon disulfide

Totals : 1.92866

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                      Seq. Line :   32
Acq. Instrument : Instrument 1              Location  : Vial 32
Injection Date  : 7/30/2011 4:55:56 AM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

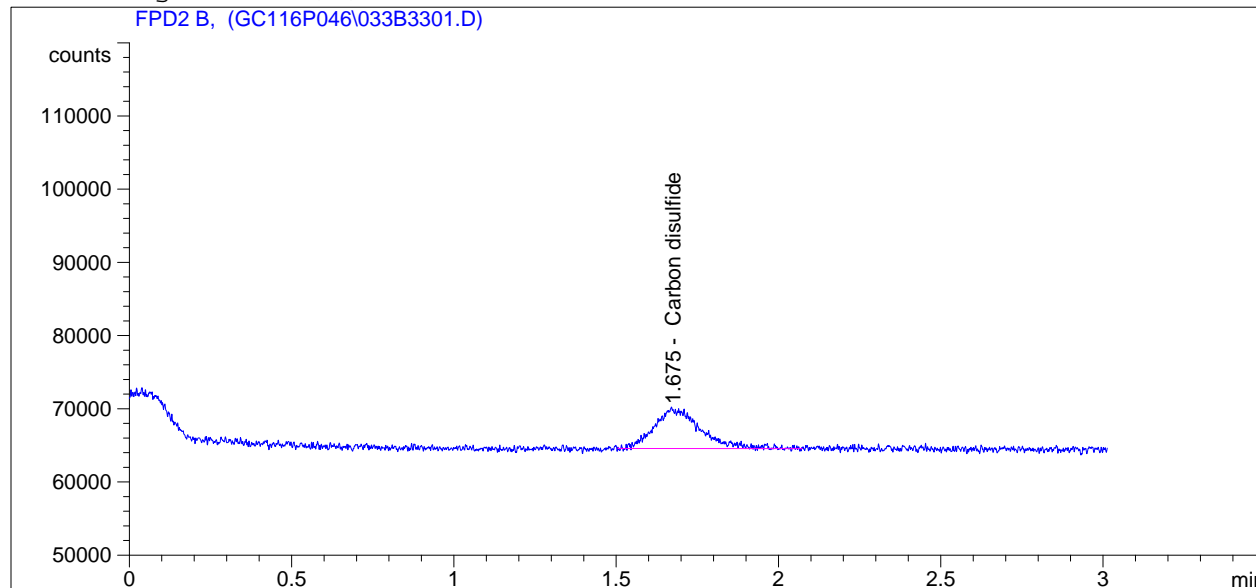
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.722	BB	1.43878e5	1.32317e-5	1.90375	--	Carbon disulfide

Totals : 1.90375

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   33
Acq. Instrument : Instrument 1                       Location  : Vial 33
Injection Date  : 7/30/2011 5:08:36 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

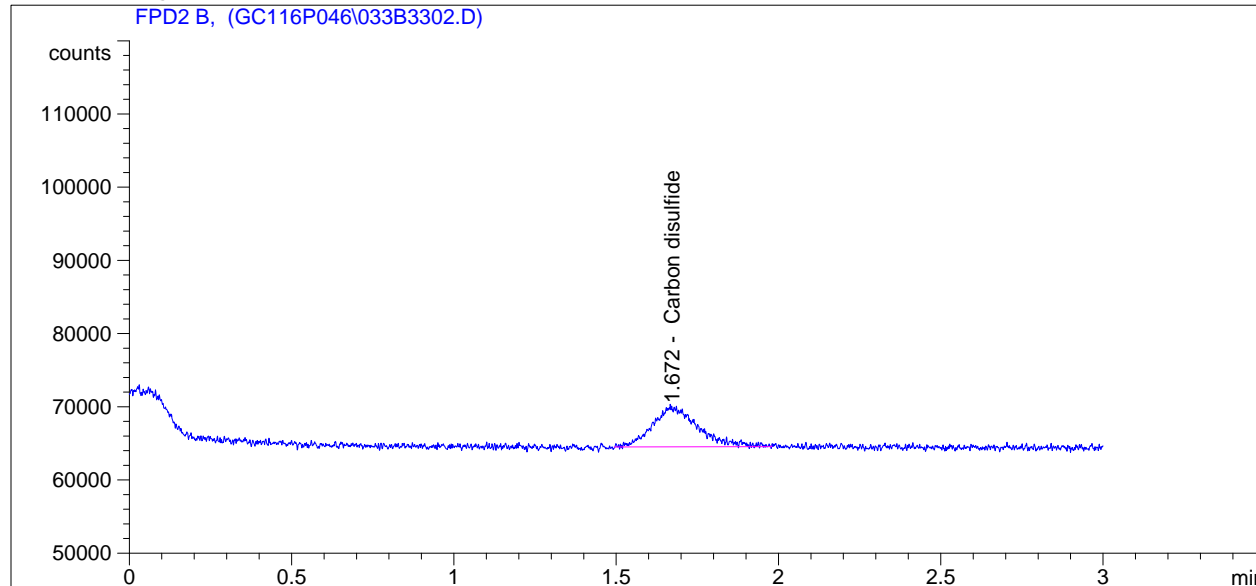
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.675	BB	5.36960e4	1.80048e-5	9.66789e-1		Carbon disulfide

Totals : 9.66789e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   33
Acq. Instrument : Instrument 1                       Location  : Vial 33
Injection Date  : 7/30/2011 5:12:47 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

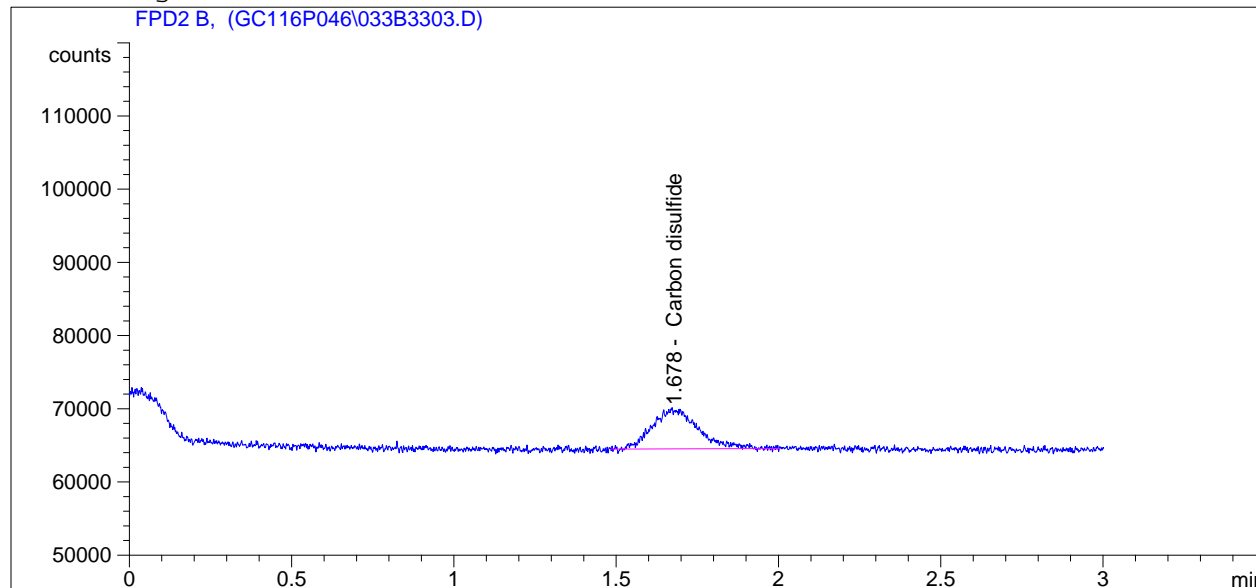
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.672	BB	5.29115e4	1.80690e-5	9.56059e-1		Carbon disulfide

Totals : 9.56059e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   33
Acq. Instrument : Instrument 1                       Location  : Vial 33
Injection Date  : 7/30/2011 5:17:04 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

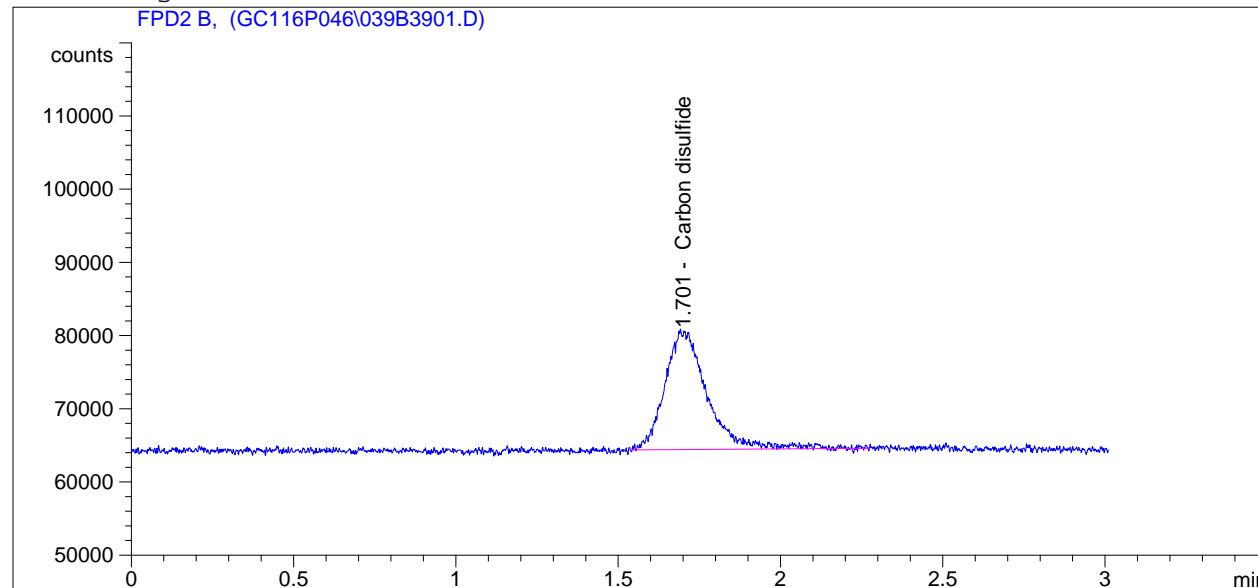
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.678	BB	5.31017e4	1.80534e-5	9.58667e-1		Carbon disulfide

Totals : 9.58667e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   39
Acq. Instrument : Instrument 1                       Location  : Vial 39
Injection Date  : 7/30/2011 7:14:53 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.701	BB	1.46718e5	1.31373e-5	1.92748	--	Carbon disulfide

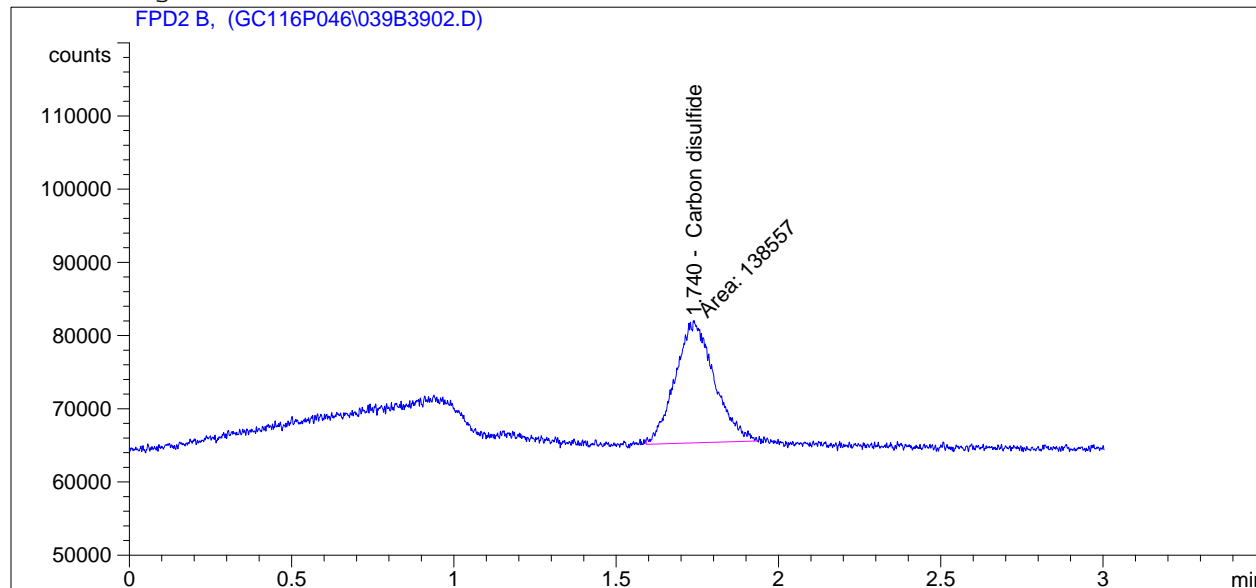
Totals : 1.92748

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : JBB                               Seq. Line :   39
Acq. Instrument : Instrument 1                       Location  : Vial 39
Injection Date  : 7/30/2011 7:19:05 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

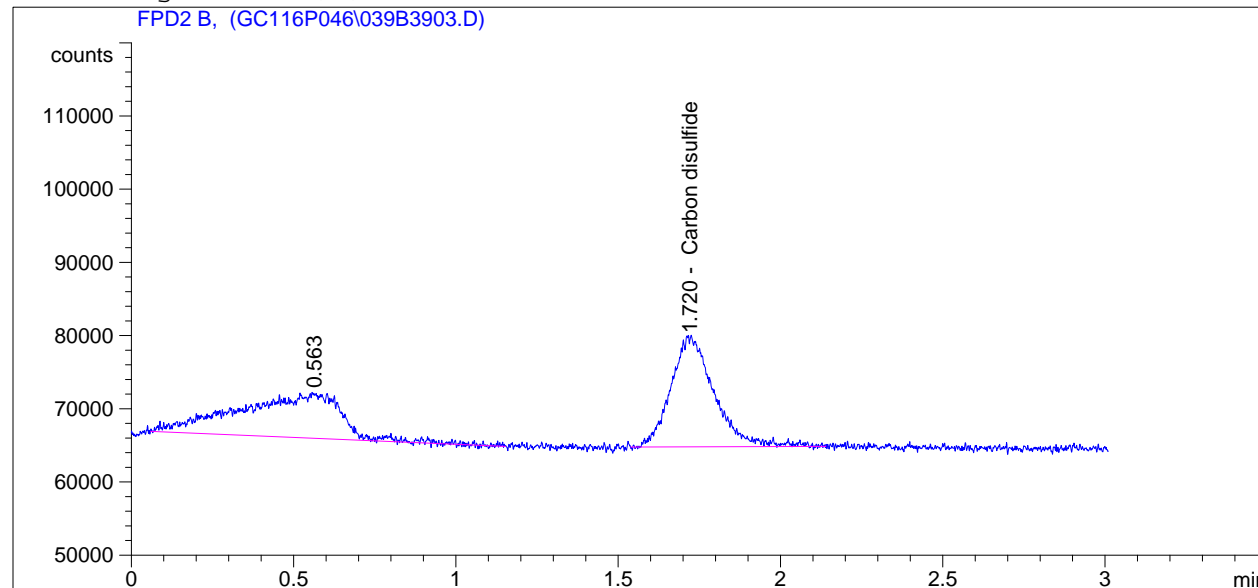
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.740	MM	1.38557e5	1.34145e-5	1.85866	--	Carbon disulfide

Totals : 1.85866

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   39
Acq. Instrument : Instrument 1                       Location  : Vial 39
Injection Date  : 7/30/2011 7:23:17 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

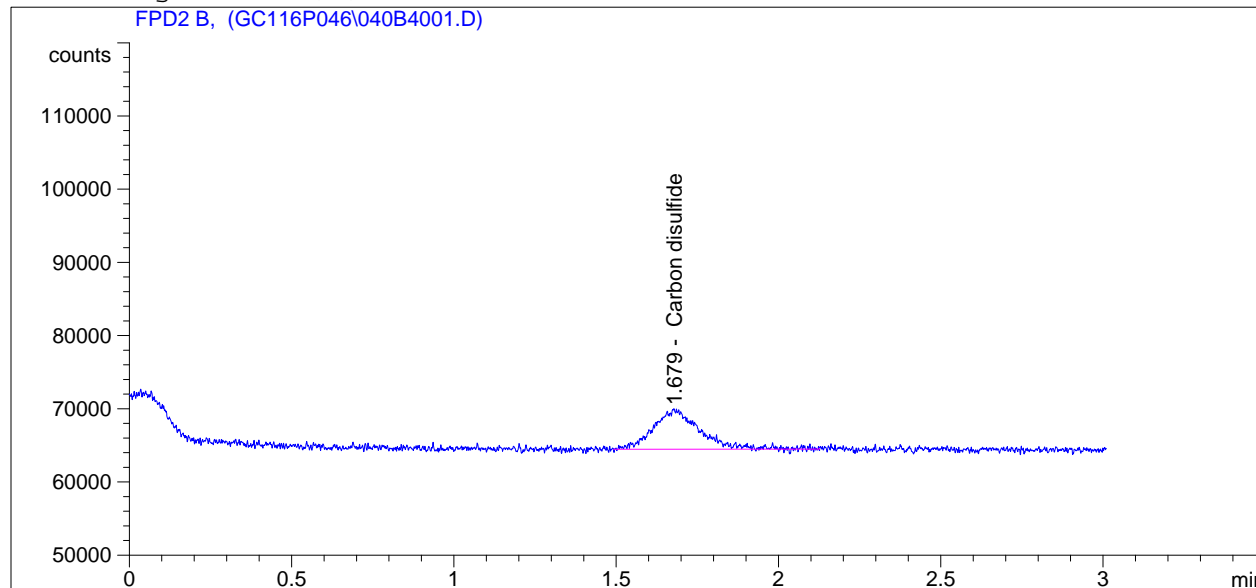
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.720	BB	1.39682e5	1.33752e-5	1.86827		Carbon disulfide

Totals : 1.86827

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   40
Acq. Instrument : Instrument 1                       Location  : Vial 40
Injection Date  : 7/30/2011 7:35:56 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

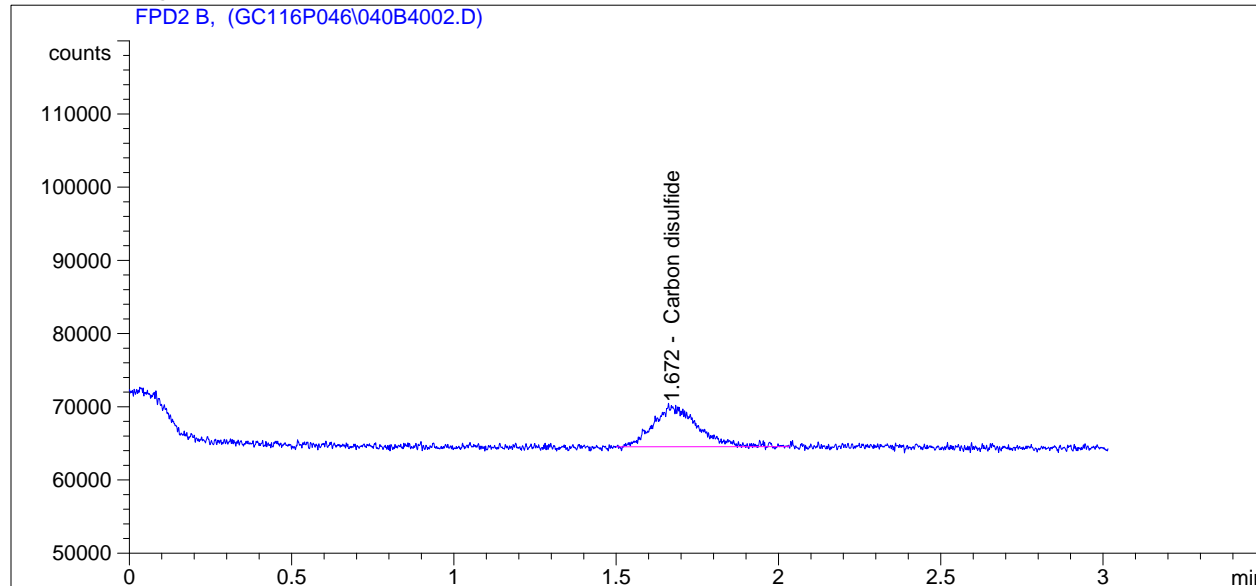
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.679	BB	5.35006e4	1.80208e-5	9.64123e-1		Carbon disulfide

Totals : 9.64123e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   40
Acq. Instrument : Instrument 1                       Location  : Vial 40
Injection Date  : 7/30/2011 7:40:07 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

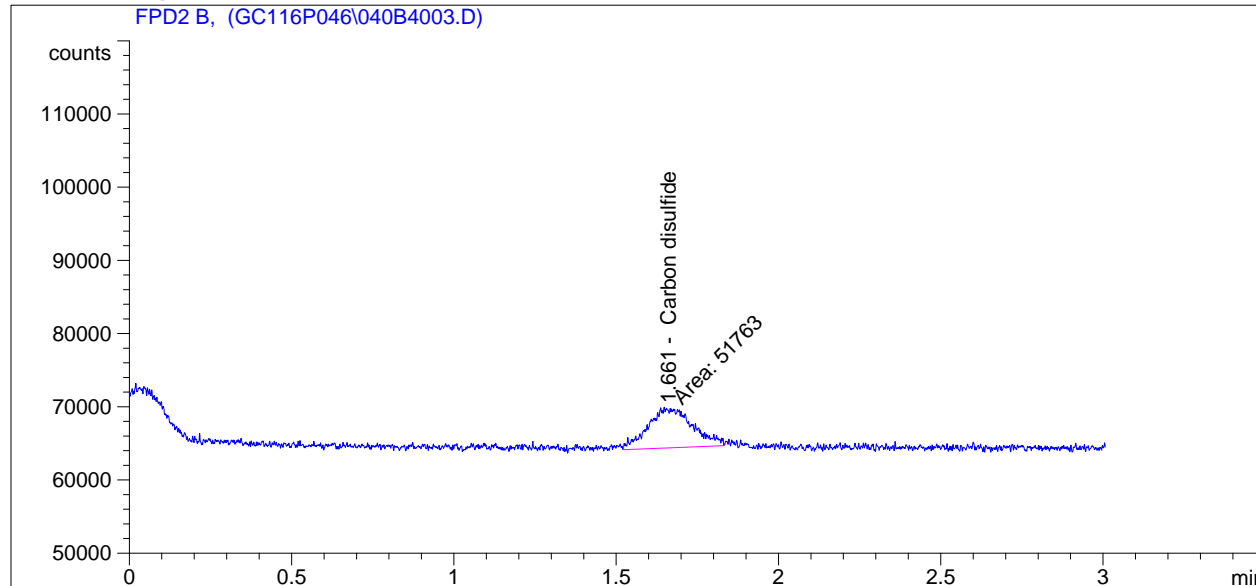
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.672	BB	5.29623e4	1.80649e-5	9.56756e-1		Carbon disulfide

Totals : 9.56756e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   40
Acq. Instrument : Instrument 1                       Location  : Vial 40
Injection Date  : 7/30/2011 7:44:18 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

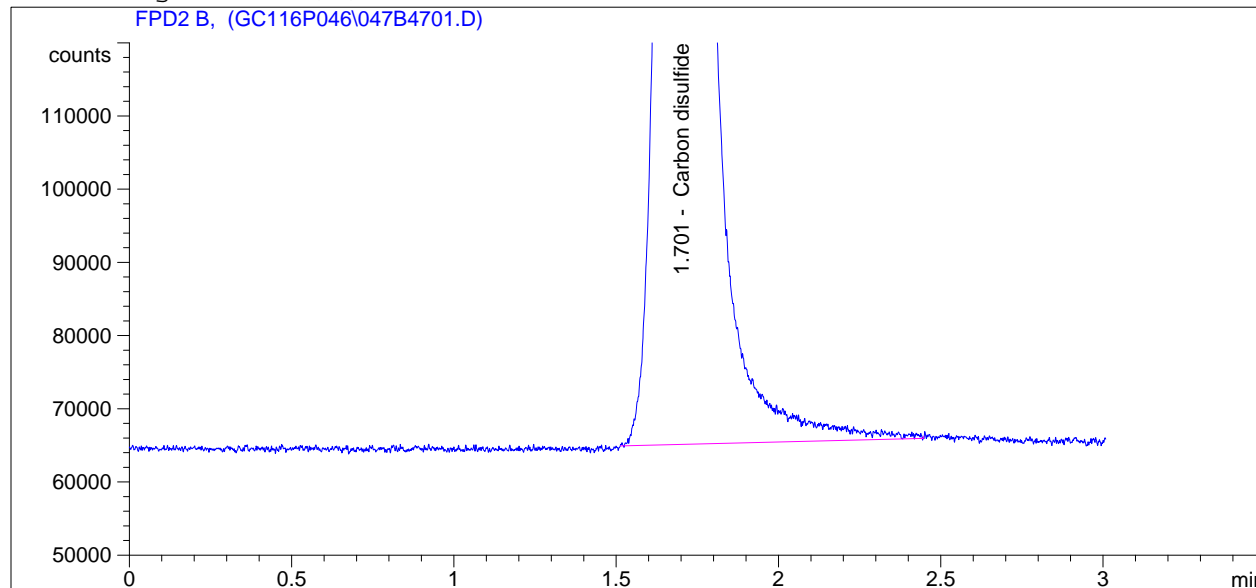
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.661	MM	5.17630e4	1.81638e-5	9.40210e-1	--	Carbon disulfide

Totals : 9.40210e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   47
Acq. Instrument : Instrument 1                       Location  : Vial 47
Injection Date  : 7/30/2011 10:03:20 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

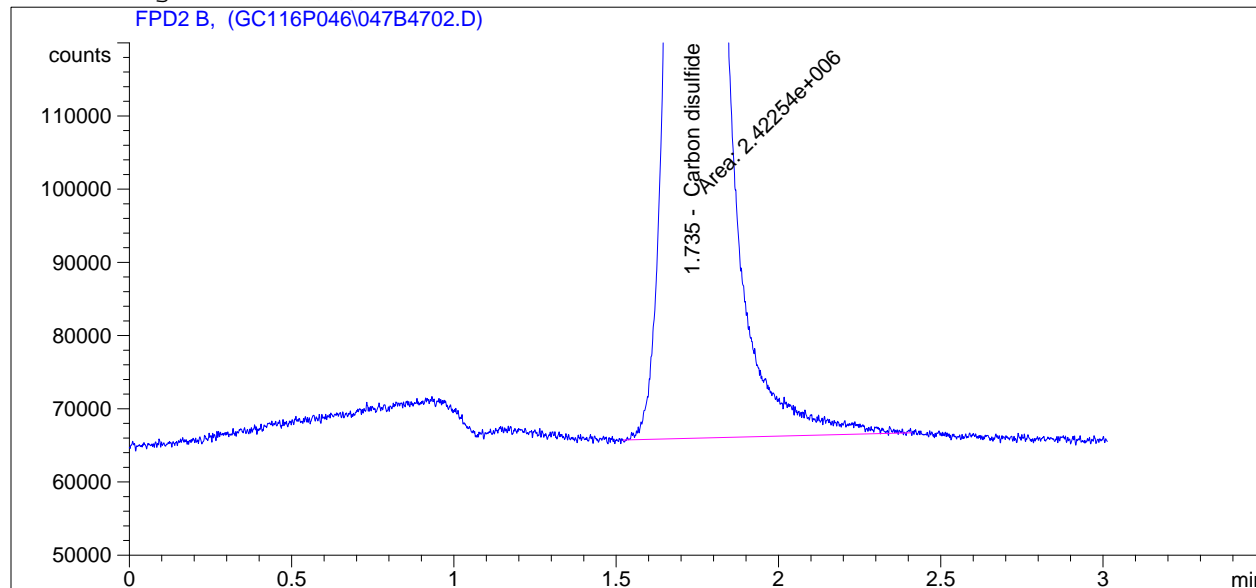
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.701	BB	2.62694e6	3.74600e-6	9.84051		Carbon disulfide

Totals : 9.84051

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   47
Acq. Instrument : Instrument 1                       Location  : Vial 47
Injection Date  : 7/30/2011 10:07:31 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

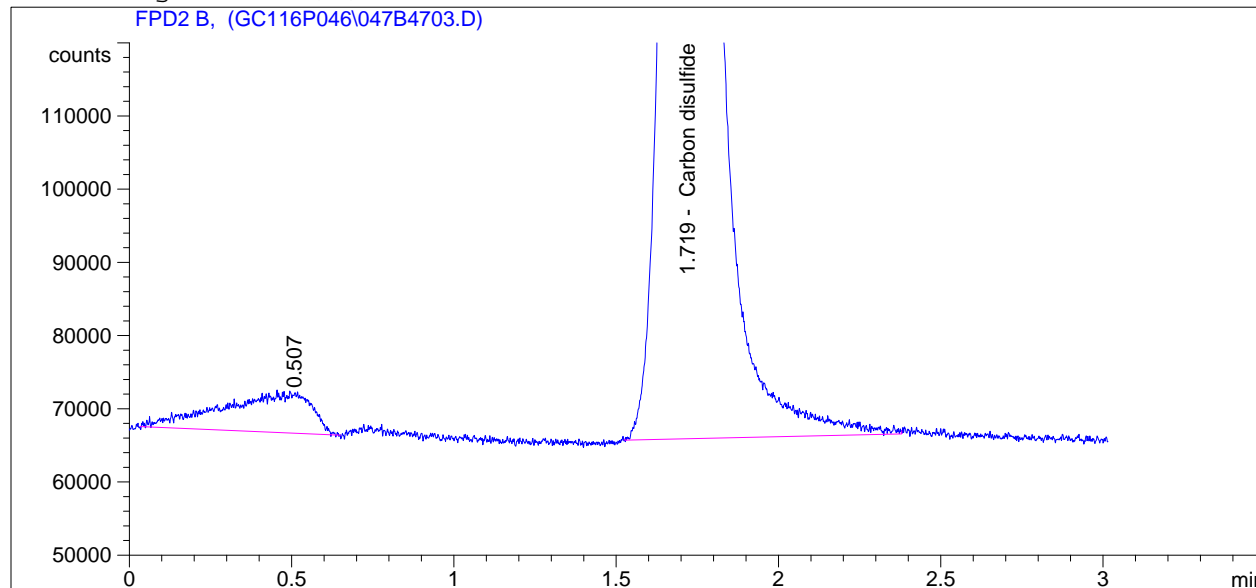
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.735	MM	2.42254e6	3.89214e-6	9.42887	--	Carbon disulfide

Totals : 9.42887

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   47
Acq. Instrument : Instrument 1                       Location  : Vial 47
Injection Date  : 7/30/2011 10:11:47 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.719	BB	2.49668e6	3.83714e-6	9.58010	--	Carbon disulfide

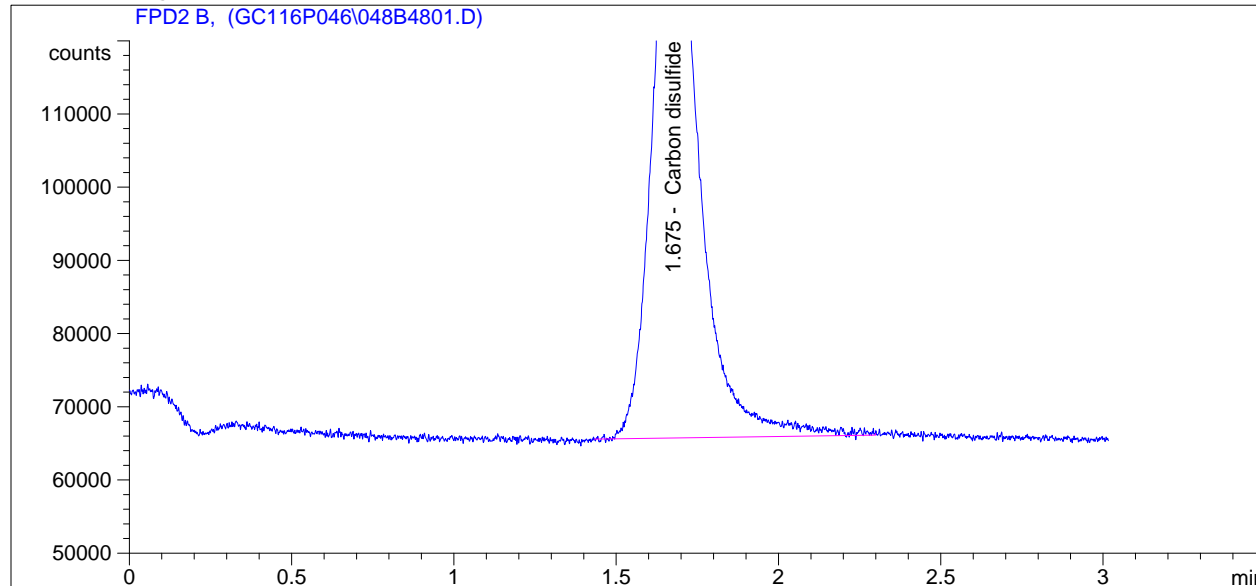
Totals : 9.58010

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : JBB                               Seq. Line :   48
Acq. Instrument : Instrument 1                       Location  : Vial 48
Injection Date  : 7/30/2011 10:24:21 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

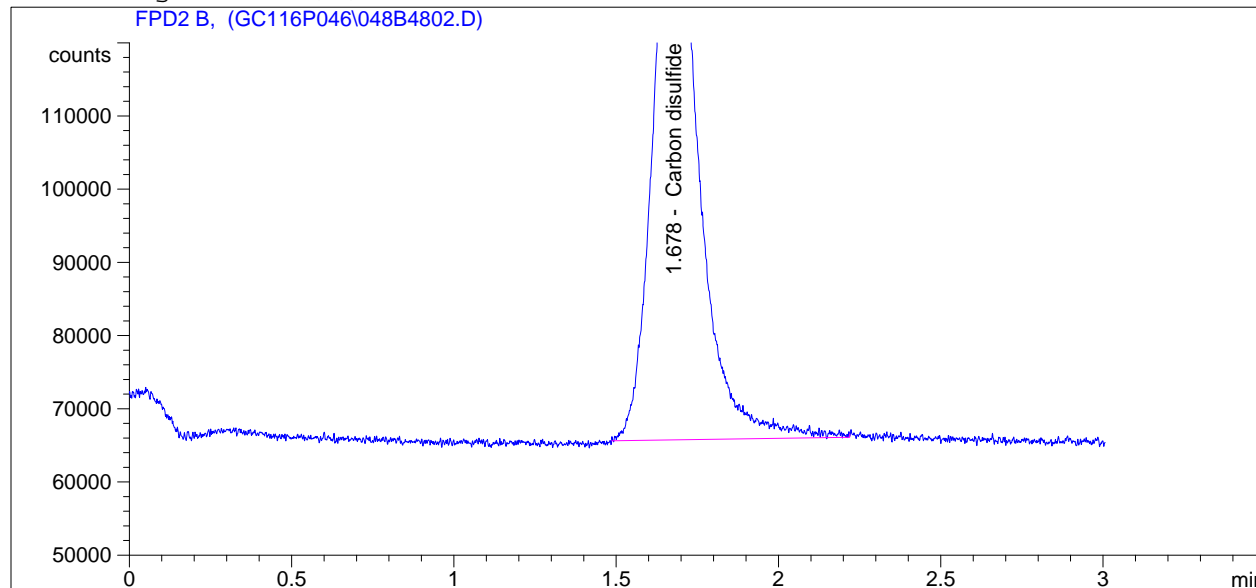
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.675	BB	8.03065e5	6.48104e-6	5.20470	--	Carbon disulfide

Totals : 5.20470

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   48
Acq. Instrument : Instrument 1                       Location  : Vial 48
Injection Date  : 7/30/2011 10:28:38 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

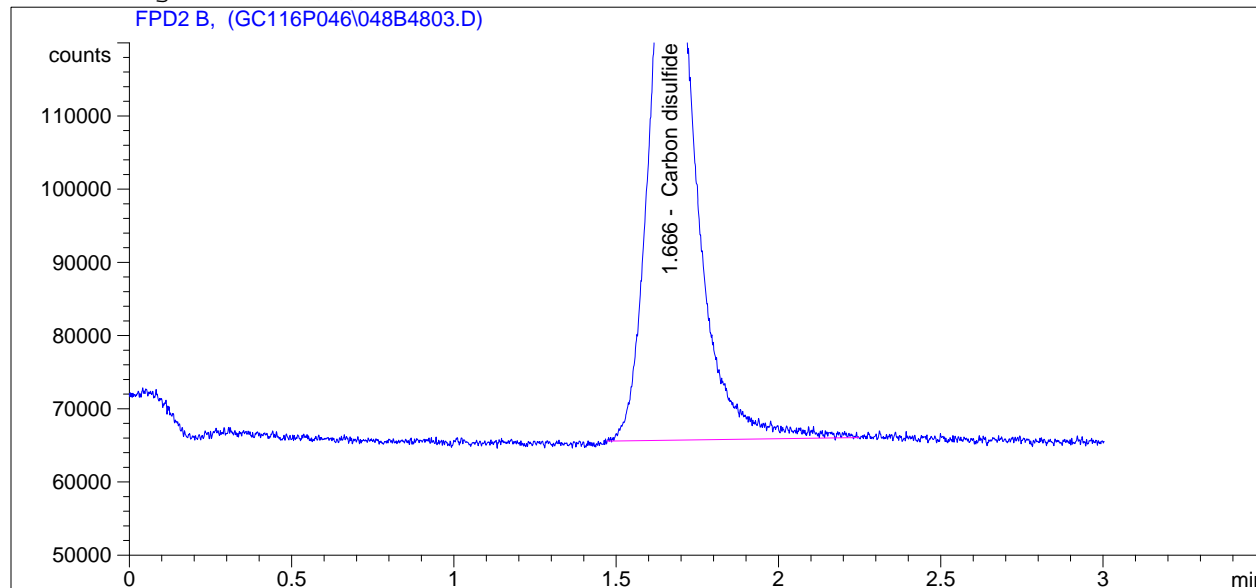
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.678	BB	7.69959e5	6.60469e-6	5.08534	--	Carbon disulfide

Totals : 5.08534

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   48
Acq. Instrument : Instrument 1                       Location  : Vial 48
Injection Date  : 7/30/2011 10:32:45 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

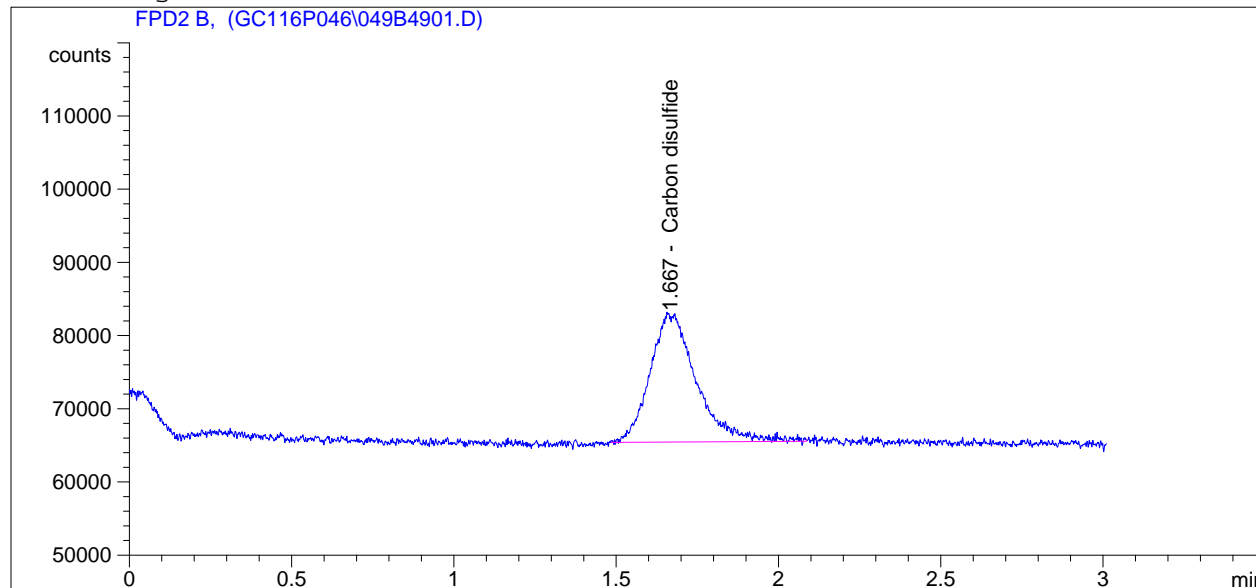
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.666	BB	7.65346e5	6.62250e-6	5.06851	--	Carbon disulfide

Totals : 5.06851

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   49
Acq. Instrument : Instrument 1                       Location  : Vial 49
Injection Date  : 7/30/2011 10:45:29 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

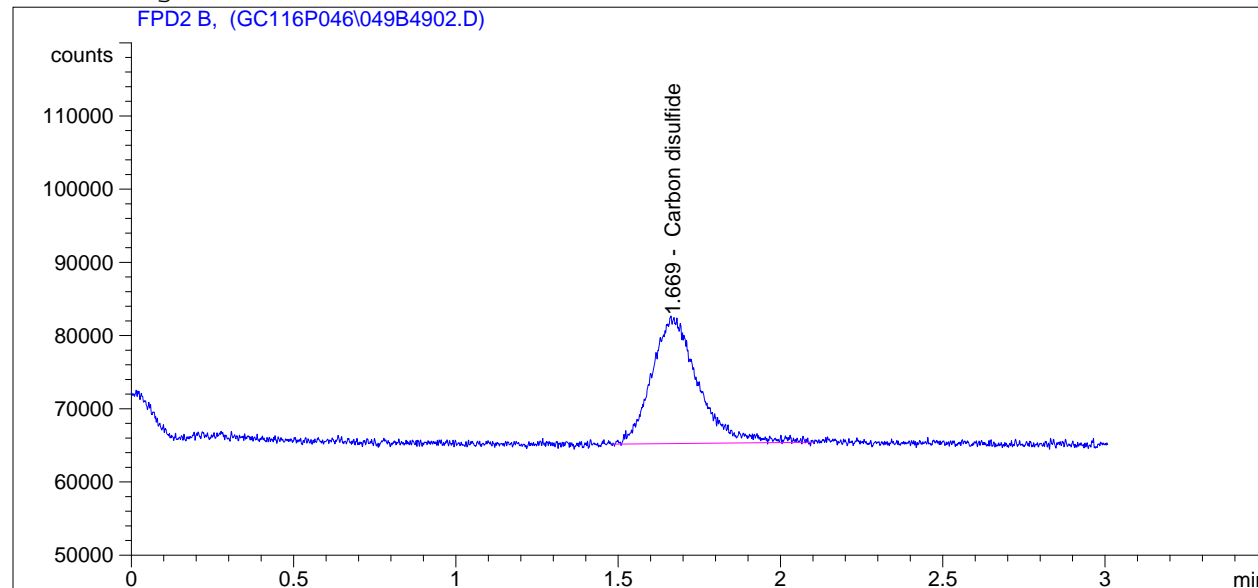
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.667	BB	1.73708e5	1.23339e-5	2.14249		Carbon disulfide

Totals : 2.14249

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   49
Acq. Instrument : Instrument 1                       Location  : Vial 49
Injection Date  : 7/30/2011 10:49:40 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

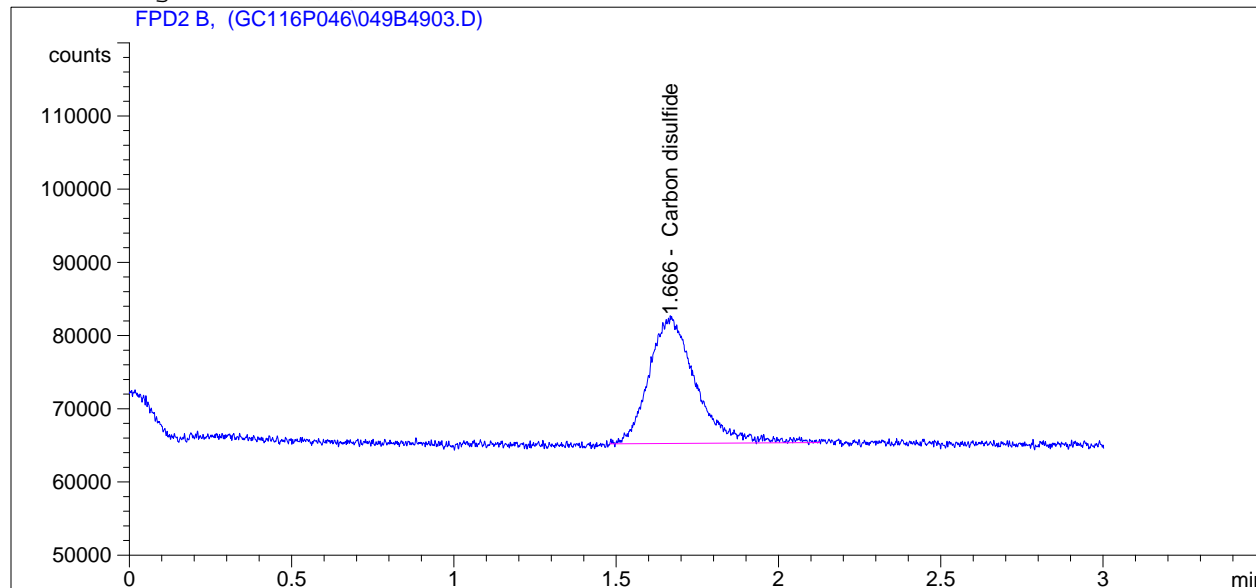
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.669	BB	1.71082e5	1.24054e-5	2.12233		Carbon disulfide

Totals : 2.12233

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   49
Acq. Instrument : Instrument 1                       Location  : Vial 49
Injection Date  : 7/30/2011 10:53:56 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

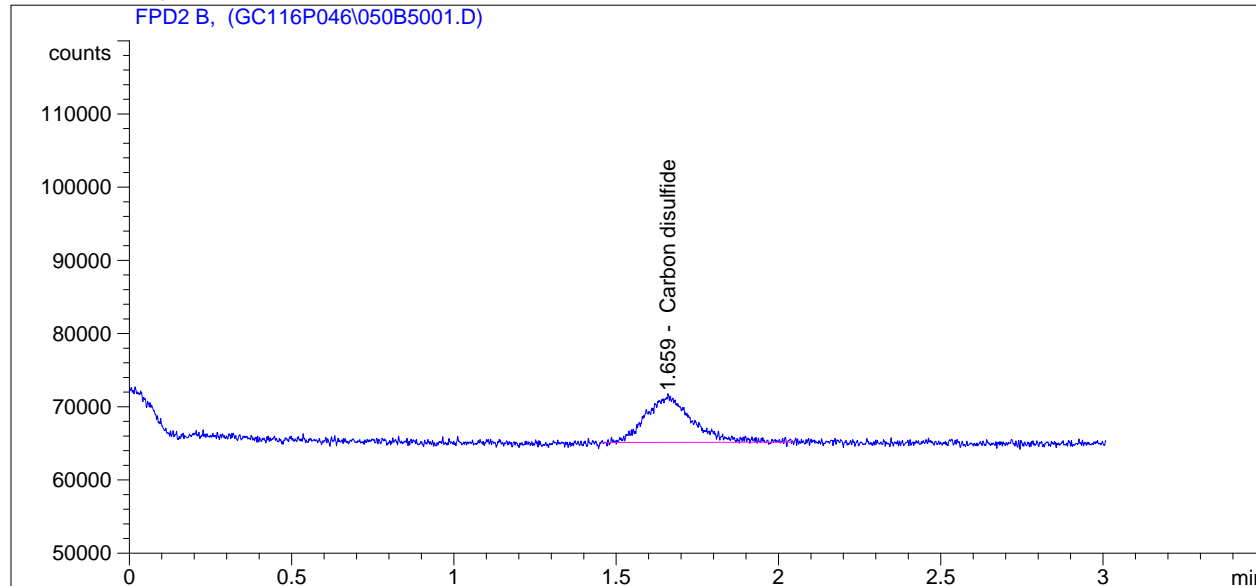
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.666	BB	1.72265e5	1.23730e-5	2.13143		Carbon disulfide

Totals : 2.13143

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   50
Acq. Instrument : Instrument 1                       Location  : Vial 50
Injection Date  : 7/30/2011 11:06:28 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

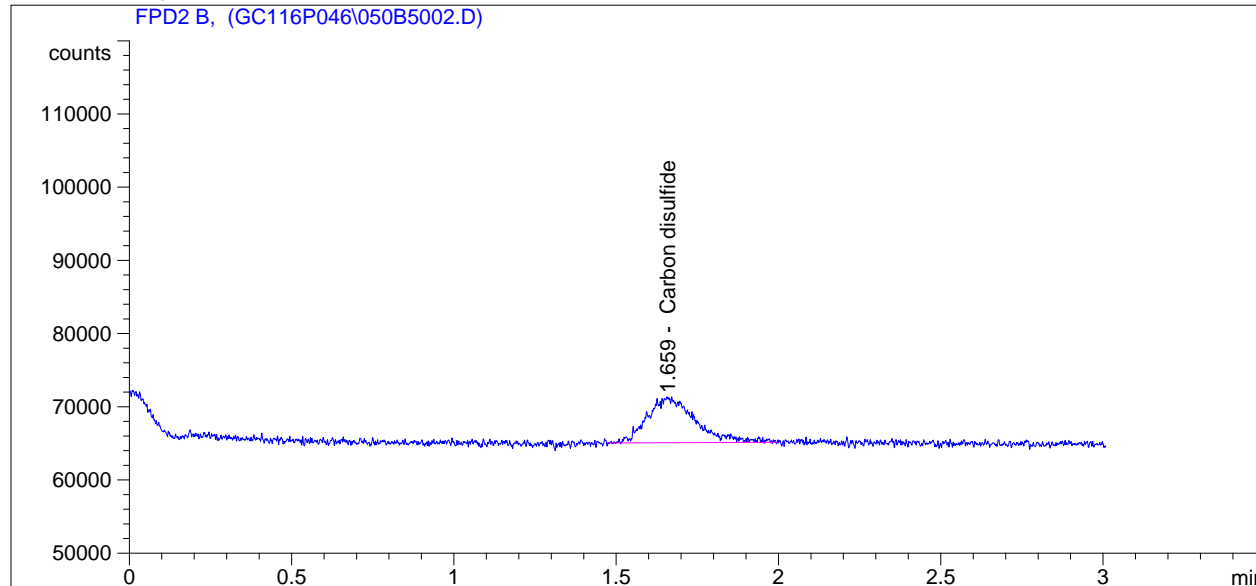
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.659	BB	6.32645e4	1.72605e-5	1.09197		Carbon disulfide

Totals : 1.09197

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   50
Acq. Instrument : Instrument 1                       Location  : Vial 50
Injection Date  : 7/30/2011 11:10:44 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.659	BB	6.32117e4	1.72644e-5	1.09131		Carbon disulfide

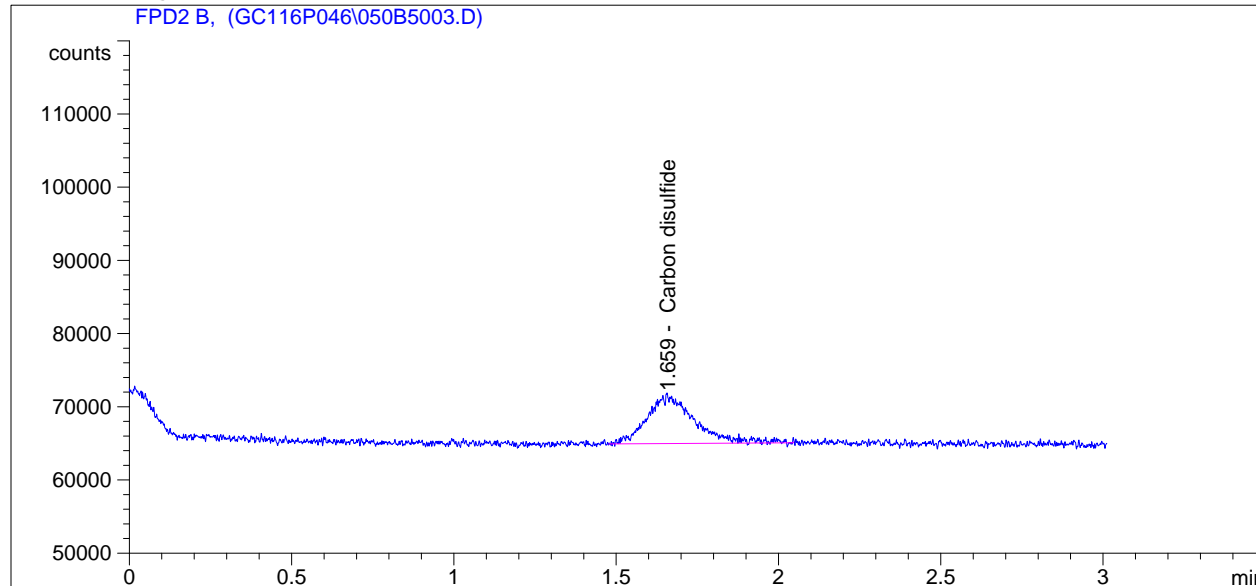
Totals : 1.09131

```
=====
                        *** End of Report ***
=====
```



```
=====
Acq. Operator   : JBB                               Seq. Line :   50
Acq. Instrument : Instrument 1                       Location  : Vial 50
Injection Date  : 7/30/2011 11:14:56 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

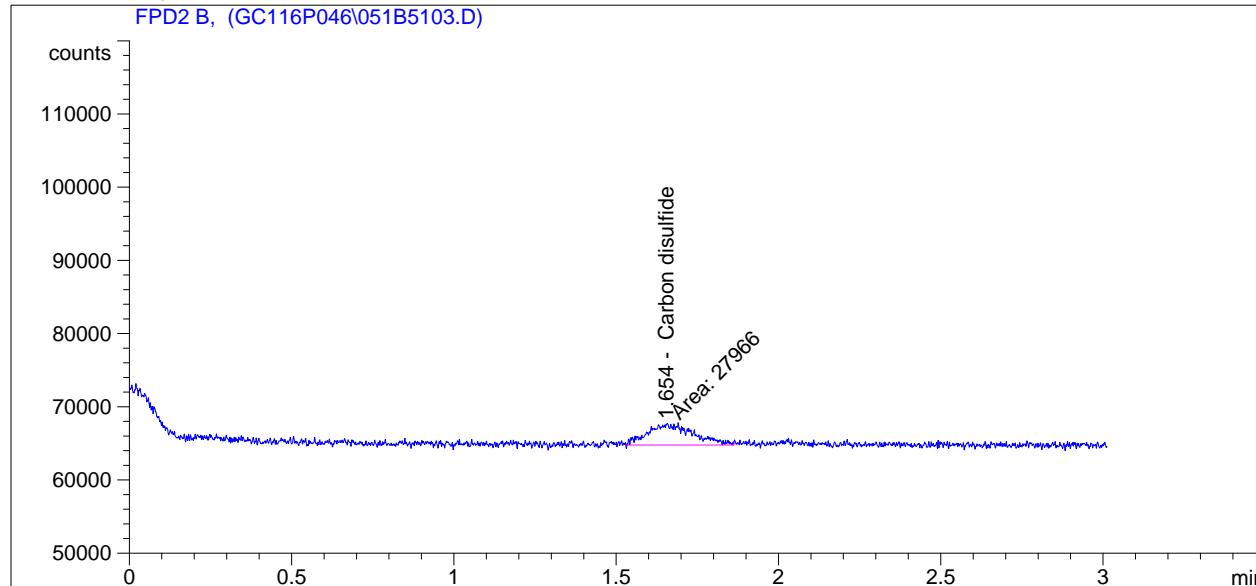
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.659	BB	6.63745e4	1.70343e-5	1.13064	--	Carbon disulfide

Totals : 1.13064

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   51
Acq. Instrument : Instrument 1                       Location  : Vial 51
Injection Date  : 7/30/2011 11:35:56 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

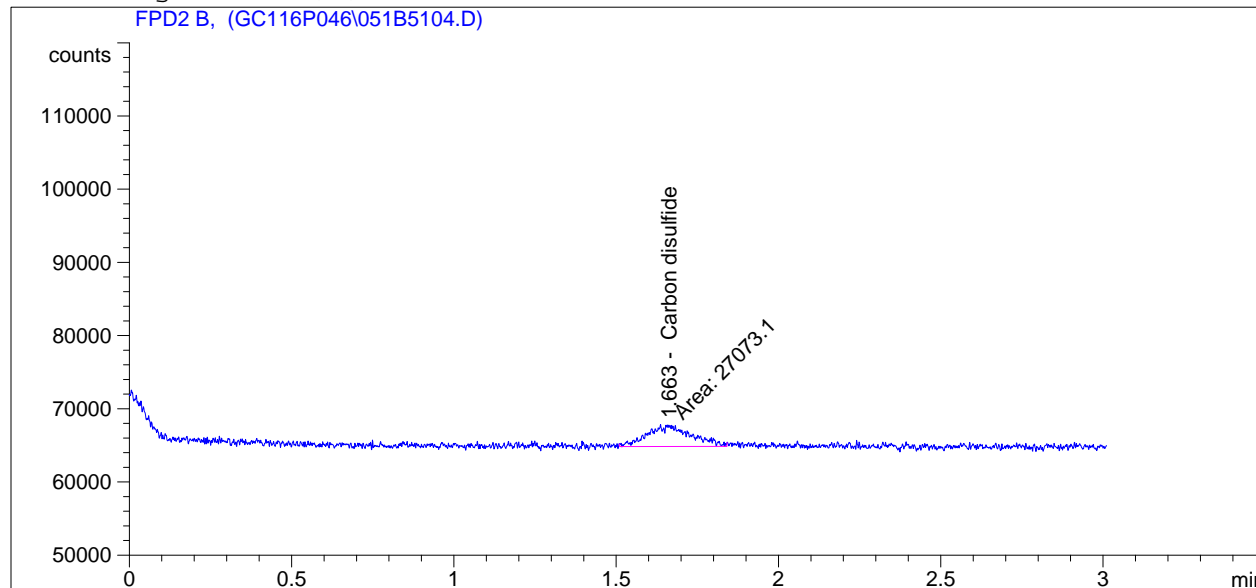
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.654	MM	2.79660e4	2.00777e-5	5.61494e-1		Carbon disulfide

Totals : 5.61494e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   51
Acq. Instrument : Instrument 1                       Location  : Vial 51
Injection Date  : 7/30/2011 11:40:13 AM              Inj       :    4
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

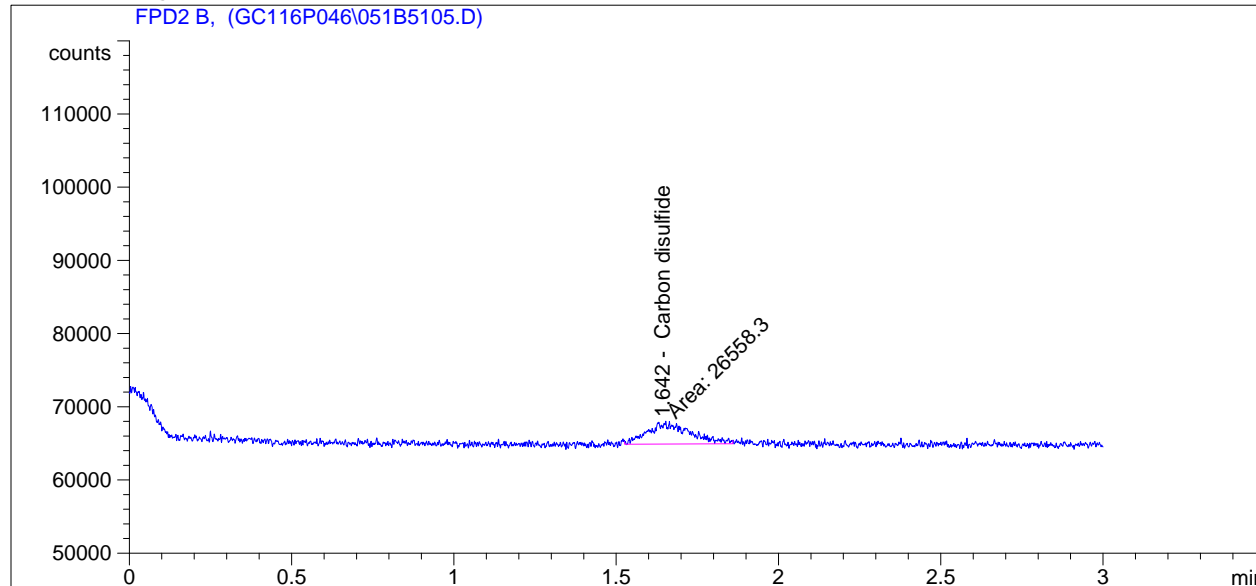
RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.663	MM	2.70731e4	2.01198e-5	5.44704e-1		Carbon disulfide

Totals : 5.44704e-1

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : JBB                               Seq. Line :   51
Acq. Instrument : Instrument 1                       Location  : Vial 51
Injection Date  : 7/30/2011 11:44:24 AM              Inj       :    5
                                                    Inj Volume: 1 µl

Sequence File   : C:\GC2011Q3\OSCAR\SEQUENCE\GC116P046.S
Acq. Method     : G:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 7/29/2011 9:37:57 PM by JBB
Analysis Method : C:\GC2011Q3\OSCAR\METHODS\GC116P46.M
Last changed    : 8/9/2011 4:04:15 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/9/2011 4:03:40 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FPD2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount	Grp	Name
1.642	MM	2.65583e4	2.01408e-5	5.34906e-1	--	Carbon disulfide

Totals : 5.34906e-1

```
=====
*** End of Report ***
=====
```

OVEN\DET

Runtime (min): 3.0

Zone Temperatures:

	State	Setpoint
Inl. A	ON	200 C.
Inl. B	ON	225 C.
Det. A	ON	300 C.
Det. B	ON	175 C.
Aux.	OFF	50 C.

Oven Zone:

Oven max	280 C.
Equib Time	1.00 Min.
Oven State	ON
Cryo State	OFF
Ambient	25 C.
Cryo Blast	OFF

Oven Program:

		Setpoint		
			Final	Final
Level	Rate (C/min.)	Temp. (C)	Time (min)	
1	0.00	0	0.00	

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	On	0.00	100.00
B (Valve 4)	On	0.00	100.00

A - Splitless Injection: No
B - Splitless Injection: No

Valves/Relays Information

Initial Setpoints:

5890 Valves:

Valve 1:	Off
Valve 2:	Off
Valve 3 (Purge A):	On
Valve 4 (Purge B):	On

Detector Information

Detector A:

Type	FID
State	OFF

Detector B:

Type	FID
State	OFF

Save Data: Signal Information
Signal 2

Signal 1:
Signal Testplot
Data rate 20.000 Hz.
Peakwidth 0.013 min.
Start Time 0.00 min.
Stop Time 650.00 min.

Signal 2:
Signal Det. B
Data rate 20.000 Hz.
Peakwidth 0.013 min.
Start Time 0.00 min.
Stop Time 650.00 min.

Sequence: C:\gc2011q3\Oscar\sequence\gc116p046.txt

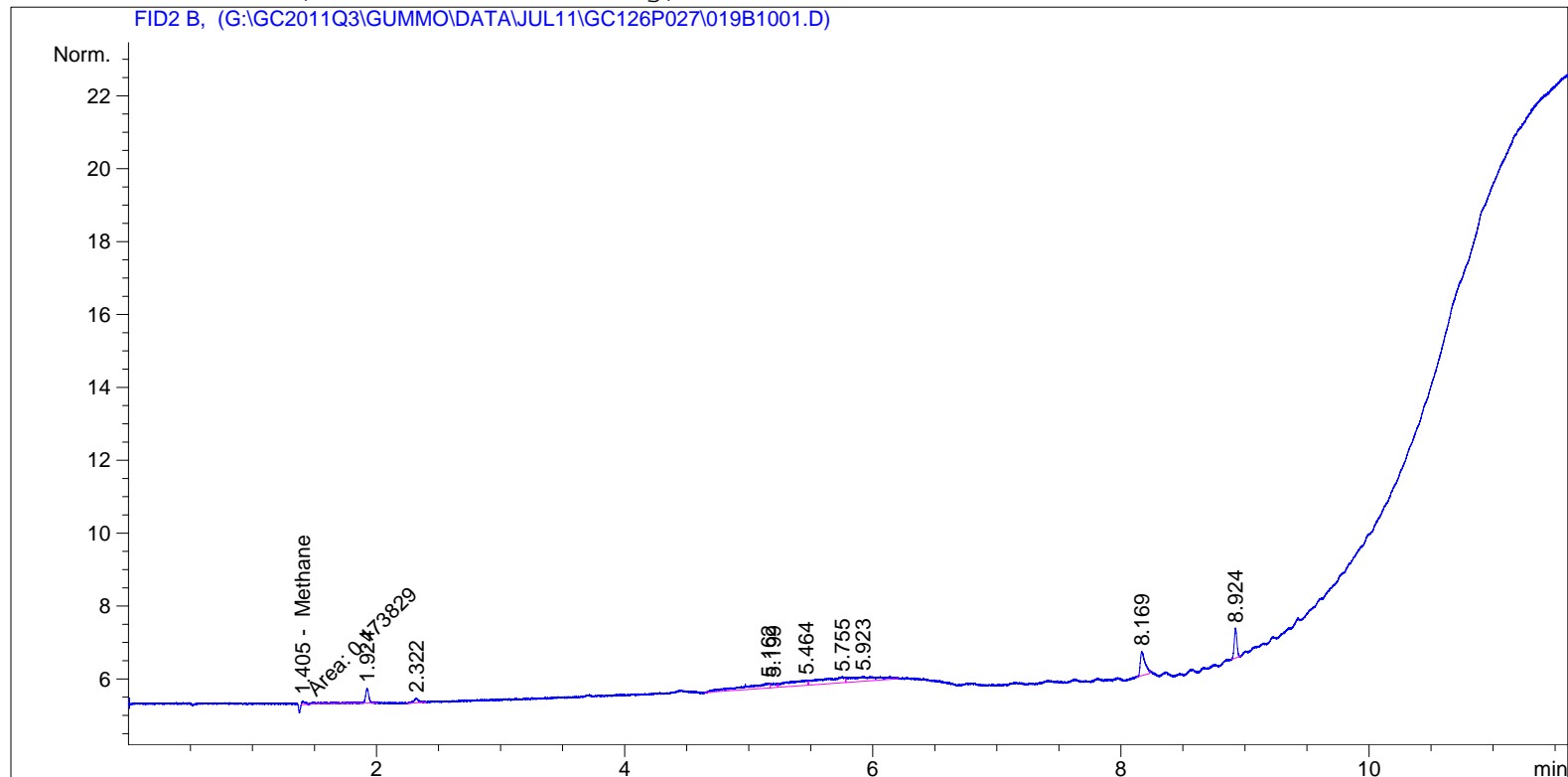
Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type	
1	Vial 1	gc116p46 #6	GC116P46	7	Sample	
2	Vial 2	gc116p46 #5	GC116P46	7	Sample	
3	Vial 3	gc116p46 #4	GC116P46	7	Sample	
4	Vial 4	gc116p46 #3	GC116P46	7	Sample	
5	Vial 5	gc116p46 #2	GC116P46	7	Sample	
6	Vial 6	gc116p46 #1	GC116P46	7	Sample	
7	Vial 7	gc116p46 #3ss	GC116P46	7	Sample	345
8	Vial 8	RB H2O	GC116P46	5	Sample	
9	Vial 9	0611-12 R1 Bag Cond	GC116P46	5	Sample	
10	Vial 10	0611-12 R2 Bag Cond	GC116P46	5	Sample	
11	Vial 11	0611-12 R1 Bag Cond #MS	GC116P46	5	Sample	234
12	Vial 12	gc116p46 #4	GC116P46	5	Sample	
13	Vial 13	gc116p46 #3	GC116P46	5	Sample	
14	Vial 14	RB H2O	GC116P46	5	Sample	
15	Vial 15	0711-12 T2R1 Bag Cond	GC116P46	5	Sample	
16	Vial 16	0711-12 T2R2 Bag Cond	GC116P46	5	Sample	
17	Vial 17	0711-12 T2R3 Bag Cond	GC116P46	5	Sample	
18	Vial 18	0711-12 T2R1 Bag Cond #MS	GC116P46	5	Sample	345
19	Vial 19	gc116p46 #6	GC116P46	5	Sample	
20	Vial 20	gc116p46 #5	GC116P46	5	Sample	
21	Vial 21	gc116p46 #4	GC116P46	5	Sample	345
22	Vial 22	gc116p46 #3	GC116P46	5	Sample	
23	Vial 23	gc116p46 #2	GC116P46	5	Sample	
24	Vial 24	RB H2O	GC116P46	5	Sample	
25	Vial 25	0611-22 ICR1 Bag Cond A	GC116P46	5	Sample	
26	Vial 26	0611-22 ICR1 Bag Cond B	GC116P46	5	Sample	
27	Vial 27	0611-22 ICR2 Bag Cond A	GC116P46	5	Sample	
28	Vial 28	0611-22 ICR2 Bag Cond B	GC116P46	5	Sample	
29	Vial 29	0611-22 ICR3 Bag Cond A	GC116P46	5	Sample	
30	Vial 30	0611-22 ICR3 Bag Cond B	GC116P46	5	Sample	
31	Vial 31	0611-22 ICR1 Bag Cond A #MS	GC116P46	5	Sample	345
32	Vial 32	gc116p46 #4	GC116P46	5	Sample	
33	Vial 33	gc116p46 #3	GC116P46	5	Sample	
34	Vial 34	RB H2O	GC116P46	5	Sample	
35	Vial 35	0611-161 R1 Bag COND	GC116P46	5	Sample	
36	Vial 36	0611-161 R2 Bag COND	GC116P46	5	Sample	
37	Vial 37	0611-161 R3 Bag COND	GC116P46	5	Sample	
38	Vial 38	0611-161 R1 Bag COND #MS	GC116P46	5	Sample	345
39	Vial 39	gc116p46 #4	GC116P46	5	Sample	
40	Vial 40	gc116p46 #3	GC116P46	5	Sample	
41	Vial 41	RB H2O	GC116P46	5	Sample	
42	Vial 42	0711-81 T1R01 Bag COND	GC116P46	5	Sample	
43	Vial 43	0711-81 T1R1 Bag COND	GC116P46	5	Sample	
44	Vial 44	0711-81 T1R2 Bag COND	GC116P46	5	Sample	
45	Vial 45	0711-81 T1R3 Bag COND	GC116P46	5	Sample	
46	Vial 46	0711-81 T1R1 Bag COND #MS	GC116P46	5	Sample	
47	Vial 47	gc116p46 #6	GC116P46	5	Sample	
48	Vial 48	gc116p46 #5	GC116P46	5	Sample	
49	Vial 49	gc116p46 #4	GC116P46	5	Sample	
50	Vial 50	gc116p46 #3	GC116P46	5	Sample	
51	Vial 51	gc116p46 #2	GC116P46	5	Sample	345
52	Vial 52	RB H2O	GC116P46	5	Sample	
53	Vial 53	0711-64 Bag COND FB	GC116P46	5	Sample	
54	Vial 54	0711-64 R1 Bag COND	GC116P46	5	Sample	
55	Vial 55	0711-64 R2 Bag COND	GC116P46	5	Sample	
56	Vial 56	0711-64 R3 Bag COND	GC116P46	5	Sample	
57	Vial 57	0711-64 R1 Bag COND #MS	GC116P46	5	Sample	345
58	Vial 58	gc116p46 #6	GC116P46	5	Sample	
59	Vial 46	0711-81 T1R1 Bag COND #MS	GC116P46	5	Sample	
60	Vial 58	gc116p46 #6	GC116P46	5	Sample	
61	Vial 59	gc116p46 #5	GC116P46	5	Sample	345
62	Vial 60	gc116p46 #4	GC116P46	5	Sample	345
63	Vial 61	gc116p46 #3	GC116P46	5	Sample	
64	Vial 62	gc116p46 #2	GC116P46	5	Sample	

Sample Chromatograms


```
=====
Acq. Operator   : MGM                      Seq. Line :   10
Acq. Instrument : Gummo online              Location  : Vial 19
Injection Date  : 27-Jul-11, 12:04:36       Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:27:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.405	MM	1.73829e-1	5.23297	9.09641e-1		Methane
1.529		-	-	-		Ethane

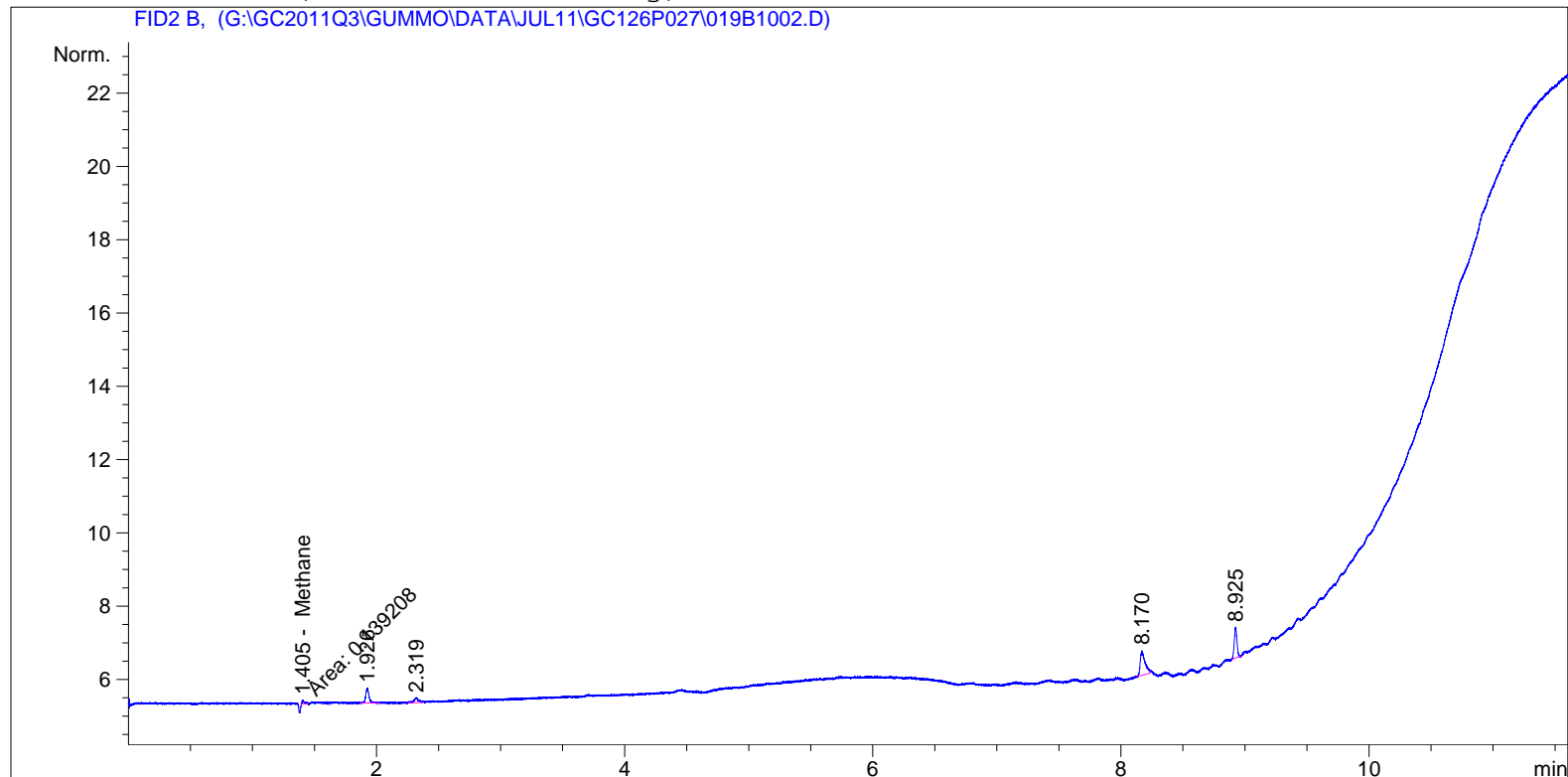
Totals : 9.09641e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   10
Acq. Instrument : Gummo online             Location  : Vial 19
Injection Date  : 27-Jul-11, 12:20:58      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:27:14 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.405	MM	1.39208e-1	5.23297	7.28469e-1		Methane
1.529		-	-	-		Ethane

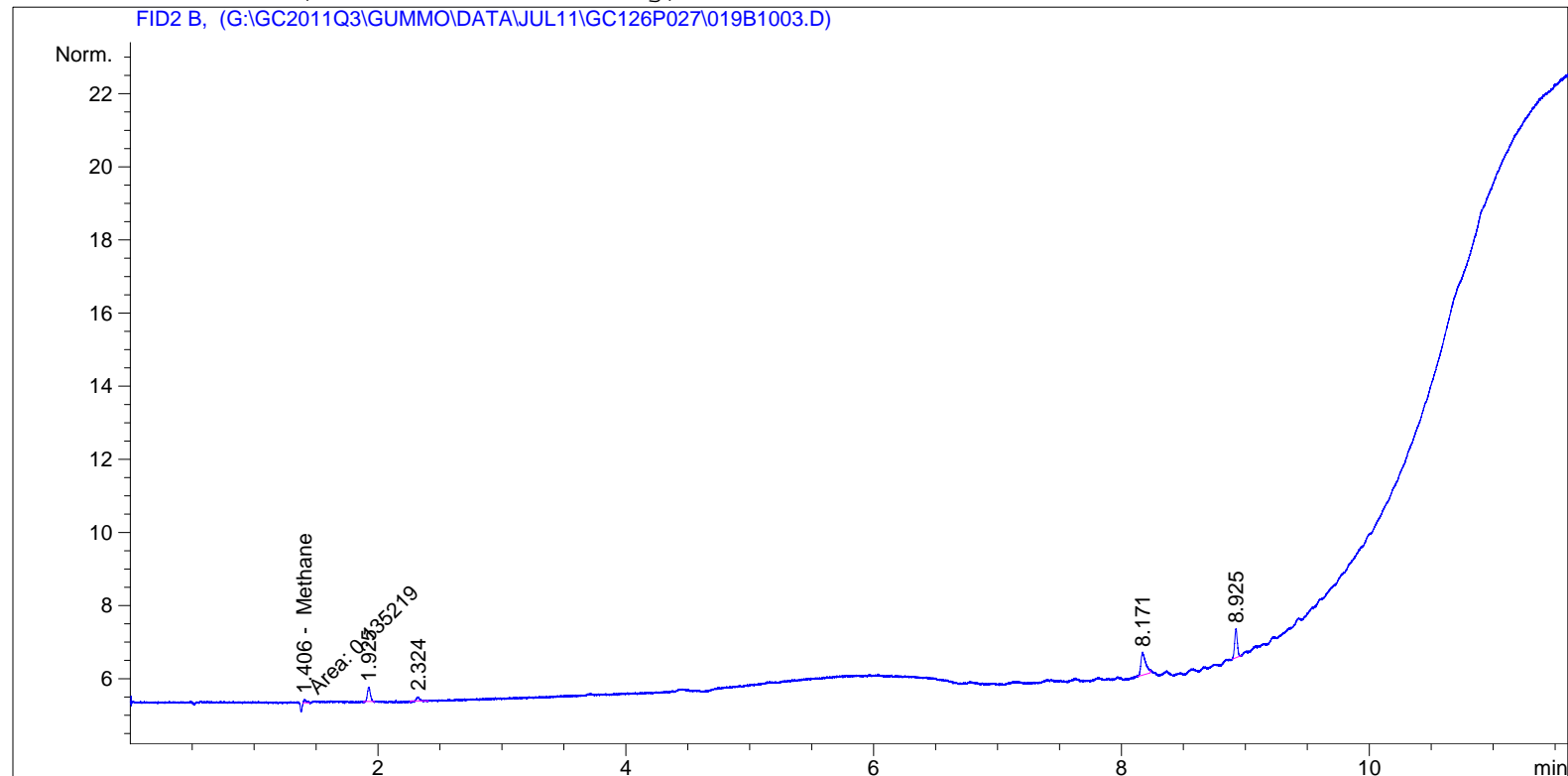
Totals : 7.28469e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   10
Acq. Instrument : Gummo online              Location  : Vial 19
Injection Date  : 27-Jul-11, 12:37:05      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:27:14 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.406	MM	1.35219e-1	5.23297	7.07597e-1		Methane
1.529		-	-	-		Ethane

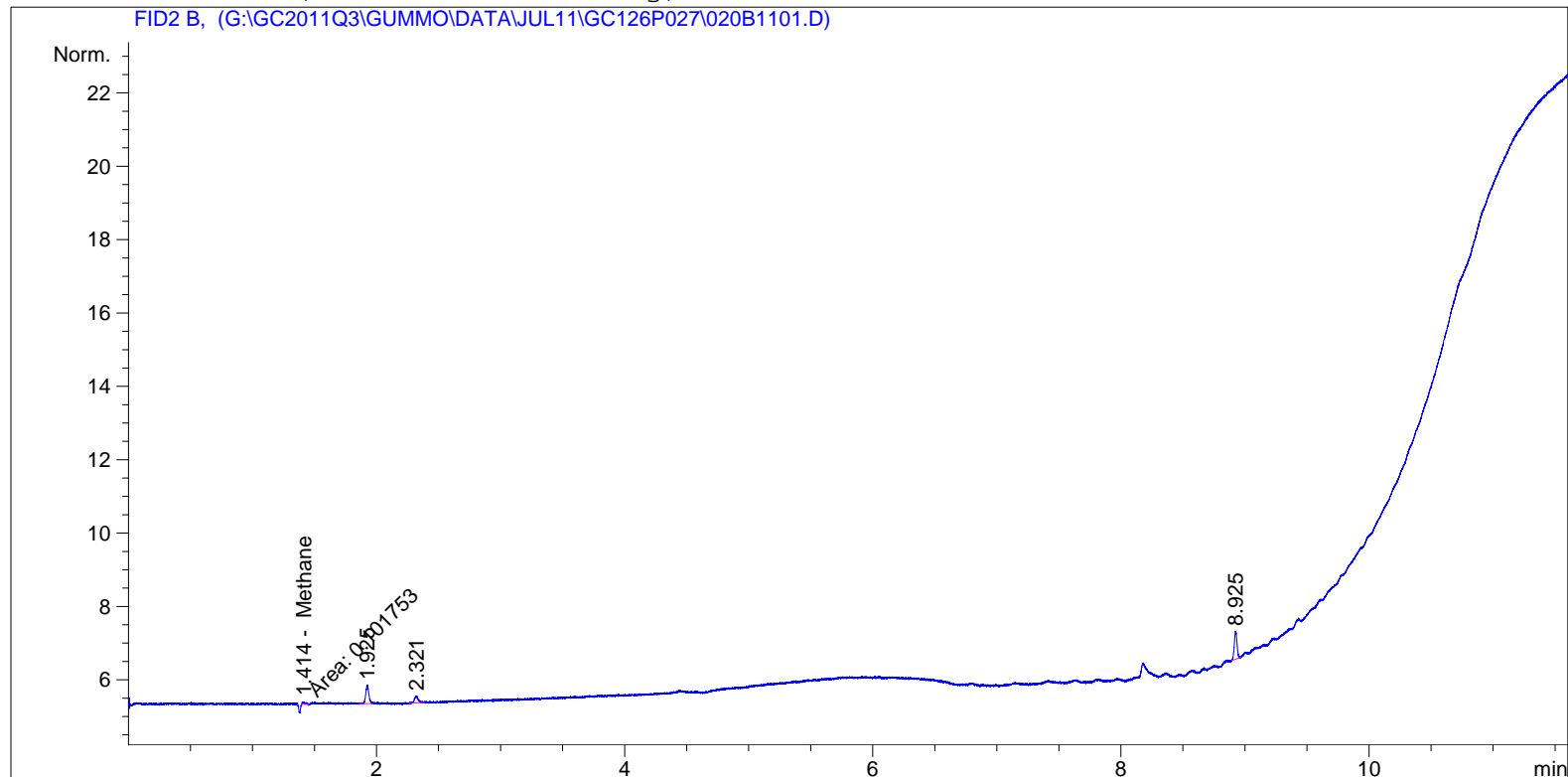
Totals : 7.07597e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                               Seq. Line :   11
Acq. Instrument : Gummo online                     Location  : Vial 20
Injection Date  : 27-Jul-11, 12:53:20              Inj       :    1
                                                Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.414	MM	1.01753e-1	5.23297	5.32473e-1		Methane
1.529		-	-	-		Ethane

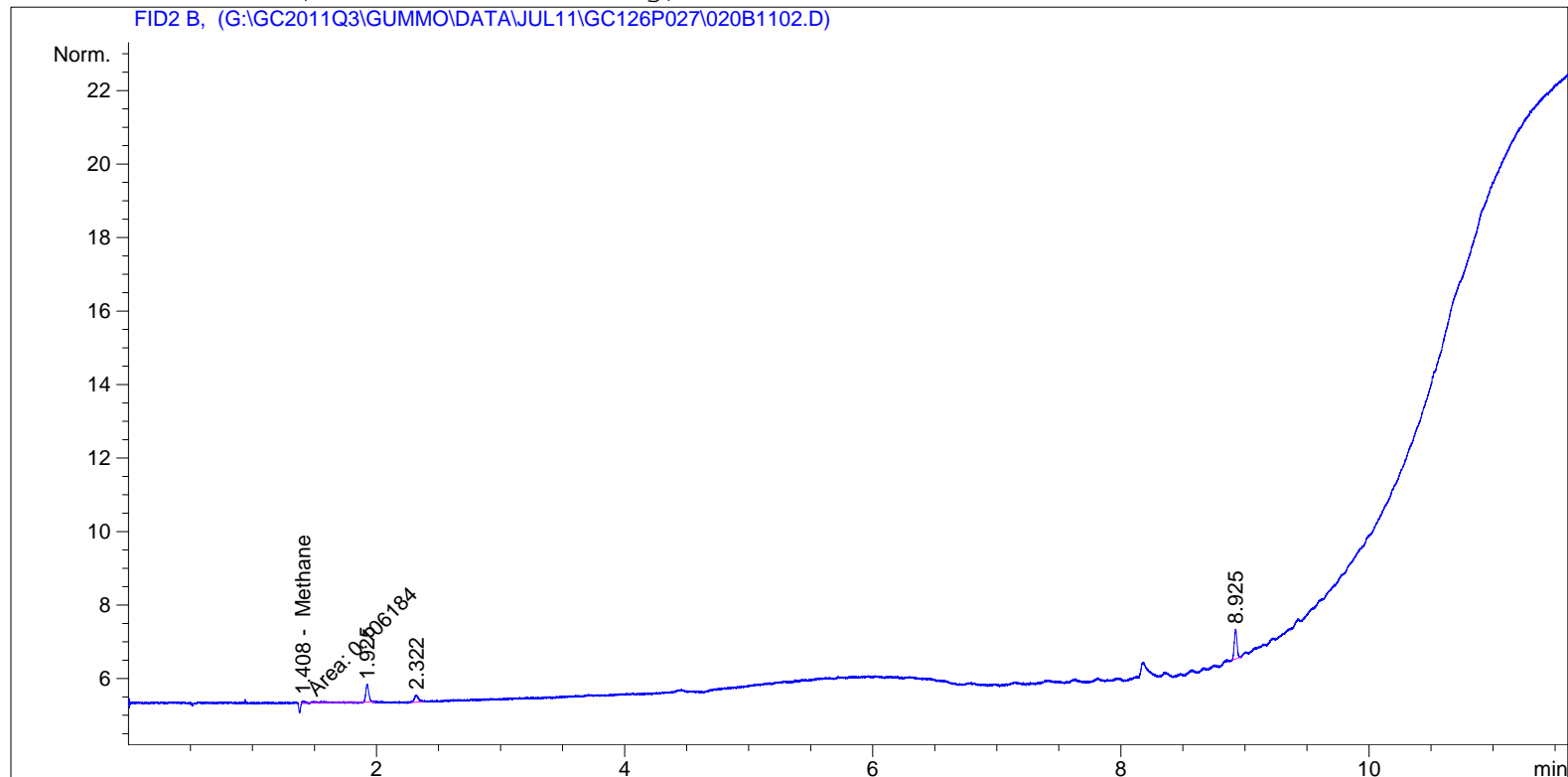
Totals : 5.32473e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                               Seq. Line :   11
Acq. Instrument : Gummo online                     Location  : Vial 20
Injection Date  : 27-Jul-11, 13:09:36              Inj       :    2
                                                Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.408	MM	1.06184e-1	5.23297	5.55660e-1		Methane
1.529		-	-	-		Ethane

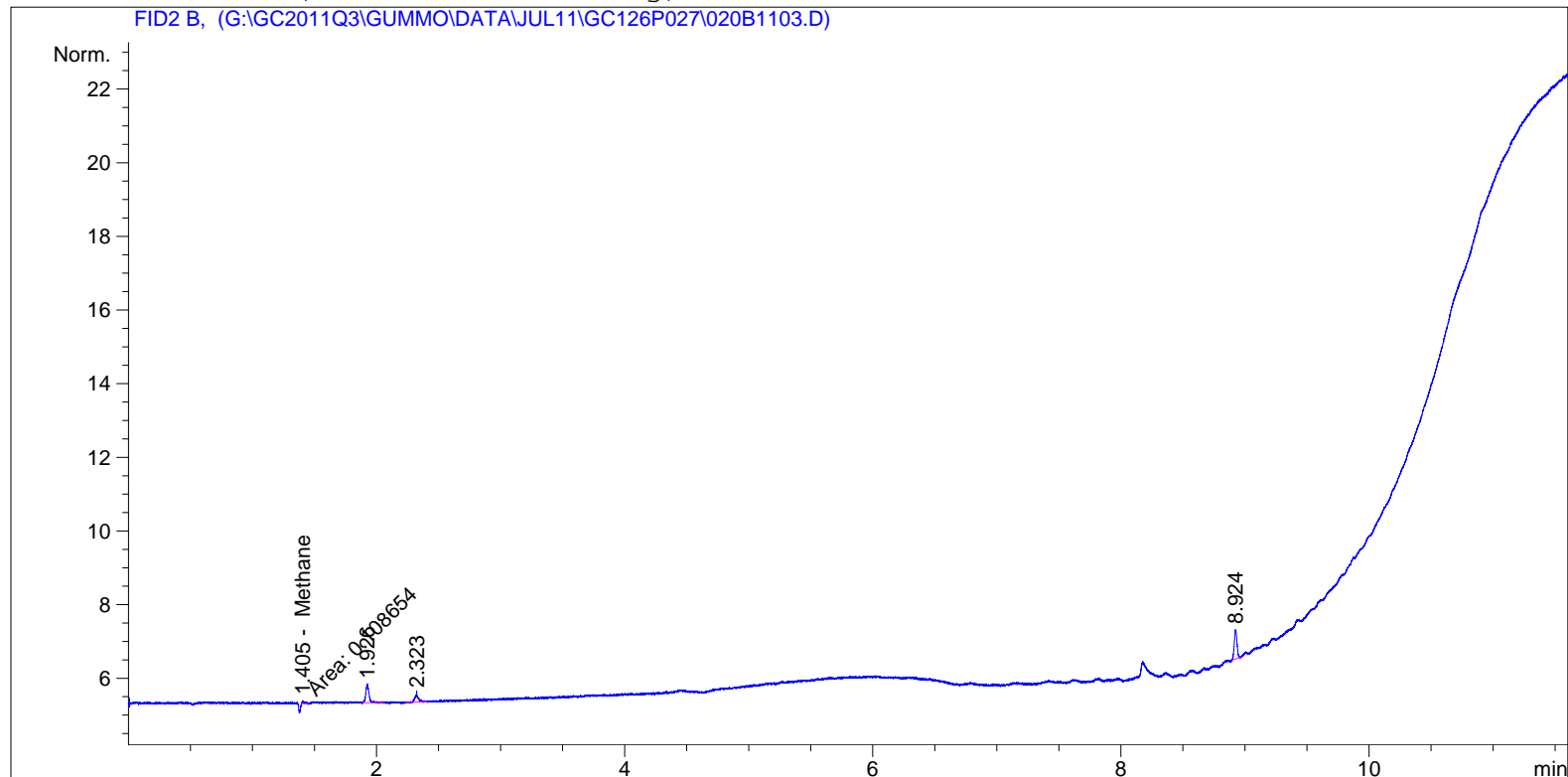
Totals : 5.55660e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                               Seq. Line :   11
Acq. Instrument : Gummo online                     Location  : Vial 20
Injection Date  : 27-Jul-11, 13:25:46              Inj       :    3
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.405	MM	1.08654e-1	5.23297	5.68582e-1		Methane
1.529		-	-	-		Ethane

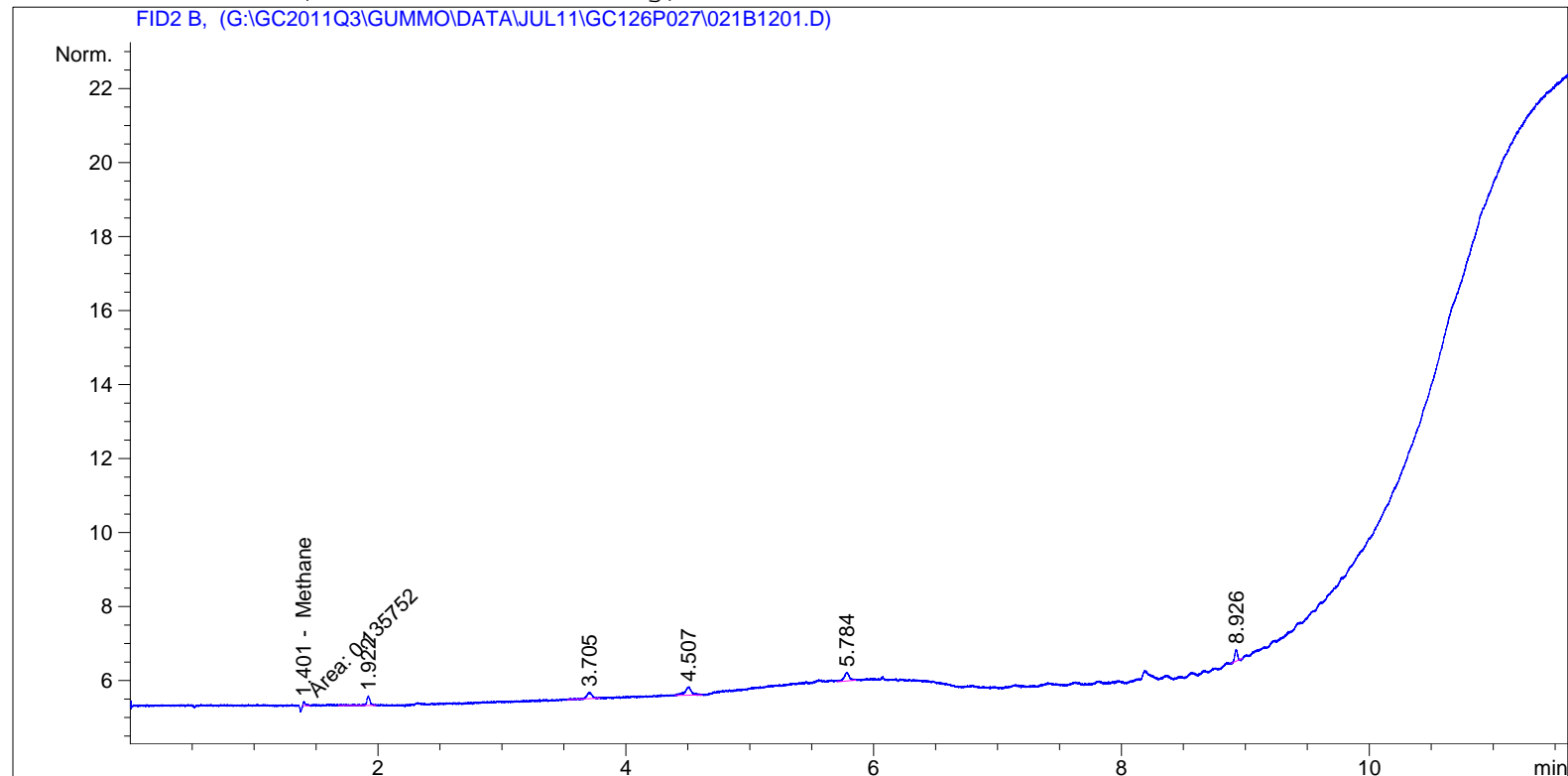
Totals : 5.68582e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   12
Acq. Instrument : Gummo online              Location  : Vial 21
Injection Date  : 27-Jul-11, 13:42:00       Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.401	MM	1.35752e-1	5.23297	7.10386e-1		Methane
1.529		-	-	-		Ethane

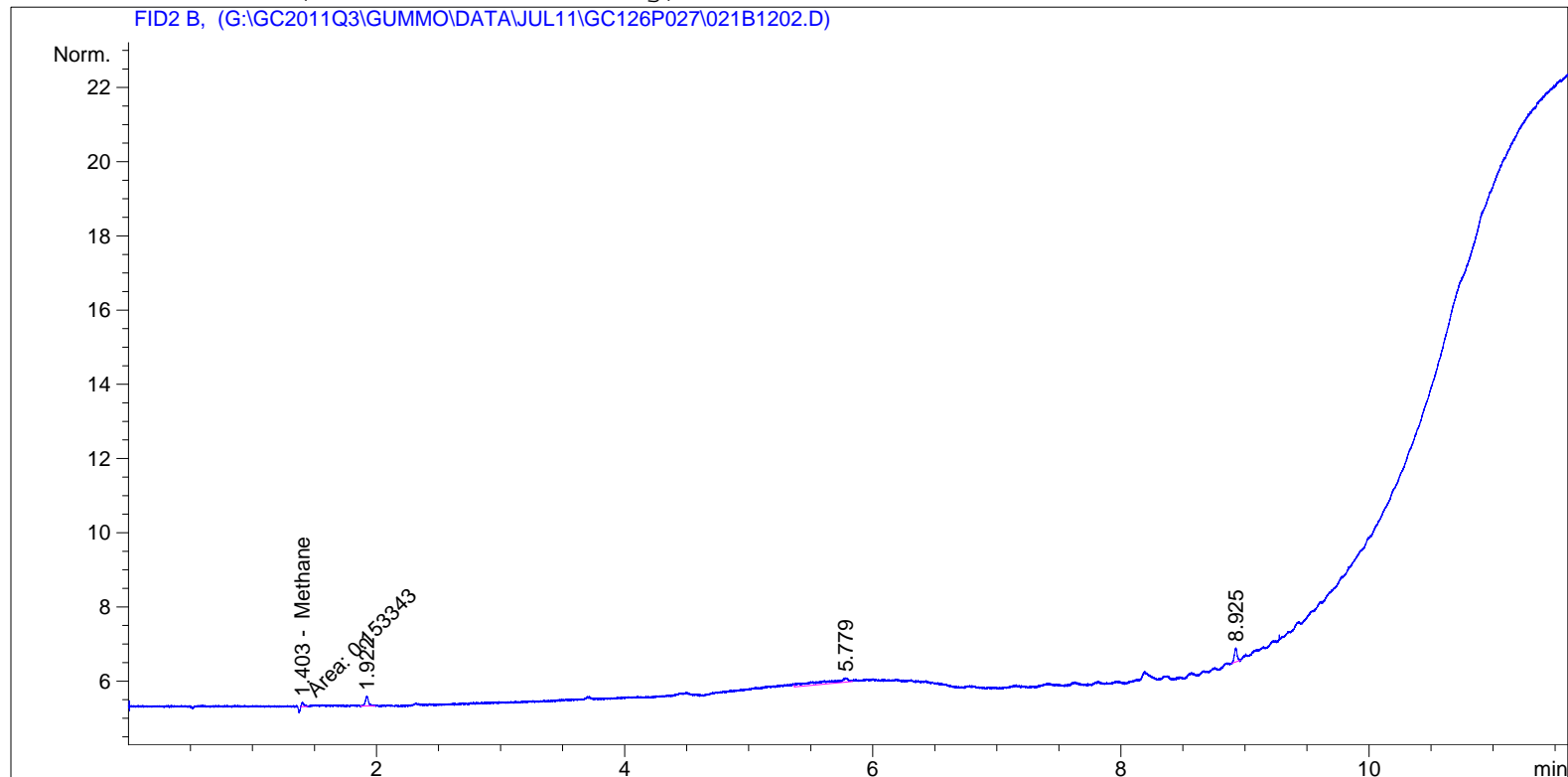
Totals : 7.10386e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   12
Acq. Instrument : Gummo online              Location  : Vial 21
Injection Date  : 27-Jul-11, 13:58:22       Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.403	MM	1.53343e-1	5.23297	8.02441e-1		Methane
1.529		-	-	-		Ethane

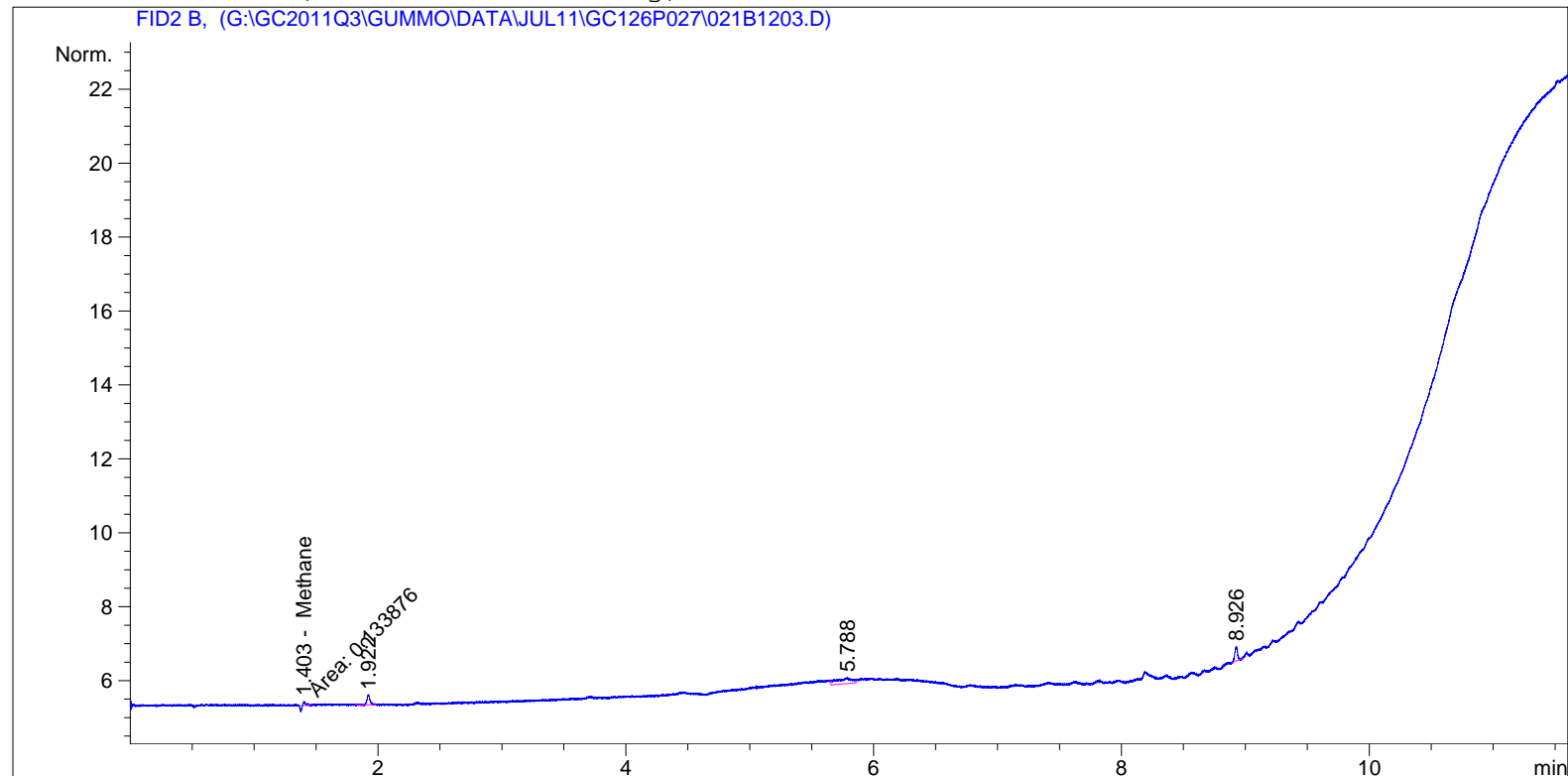
Totals : 8.02441e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found


```
=====
Acq. Operator   : MGM                      Seq. Line :   12
Acq. Instrument : Gummo online             Location  : Vial 21
Injection Date  : 27-Jul-11, 14:14:43      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.403	MM	1.33876e-1	5.23297	7.00567e-1		Methane
1.529		-	-	-		Ethane

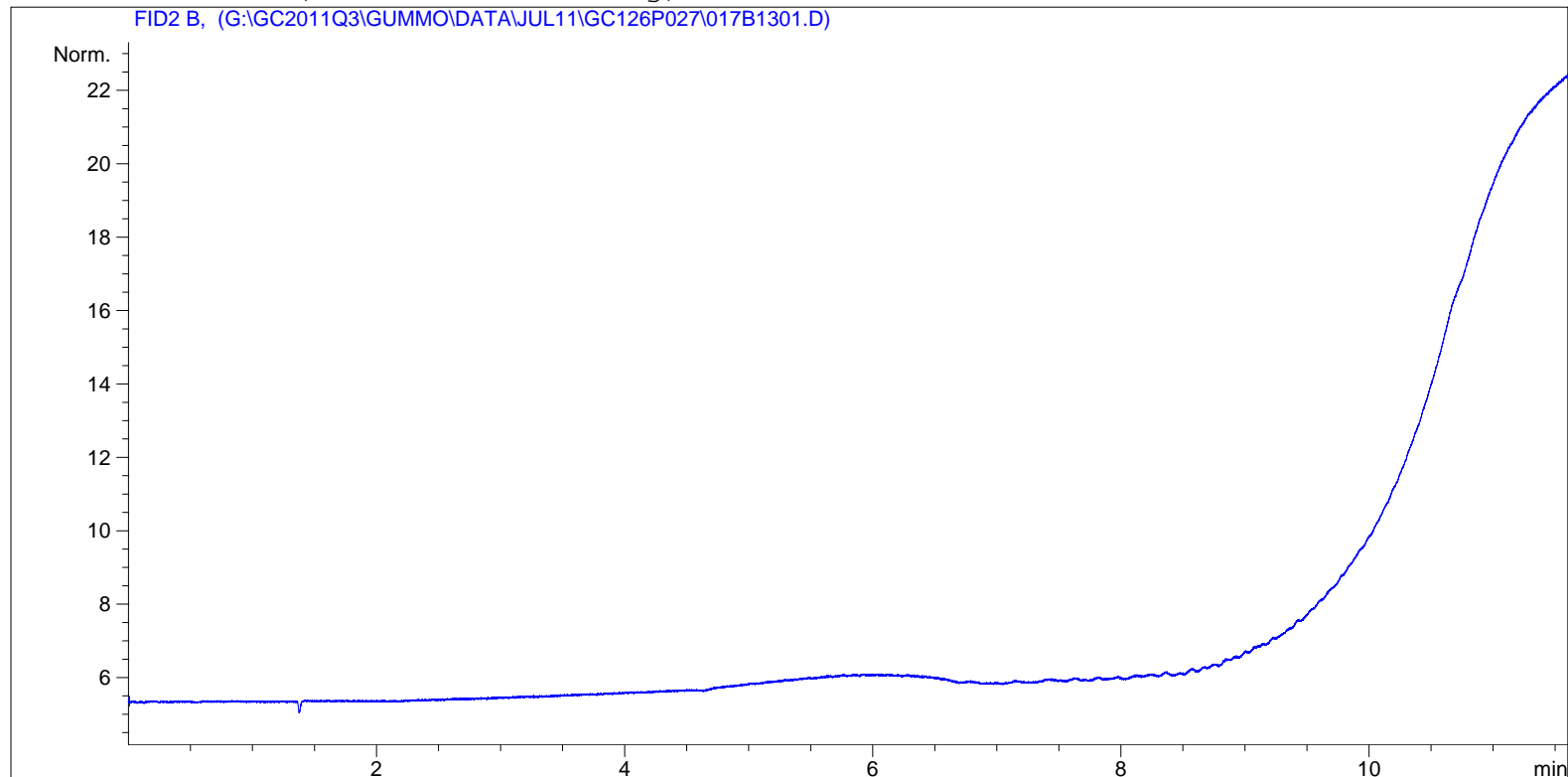
Totals : 7.00567e-1

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 17
Injection Date  : 27-Jul-11, 14:30:24      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	-	-	-	-	-	Methane
1.529	-	-	-	-	-	Ethane

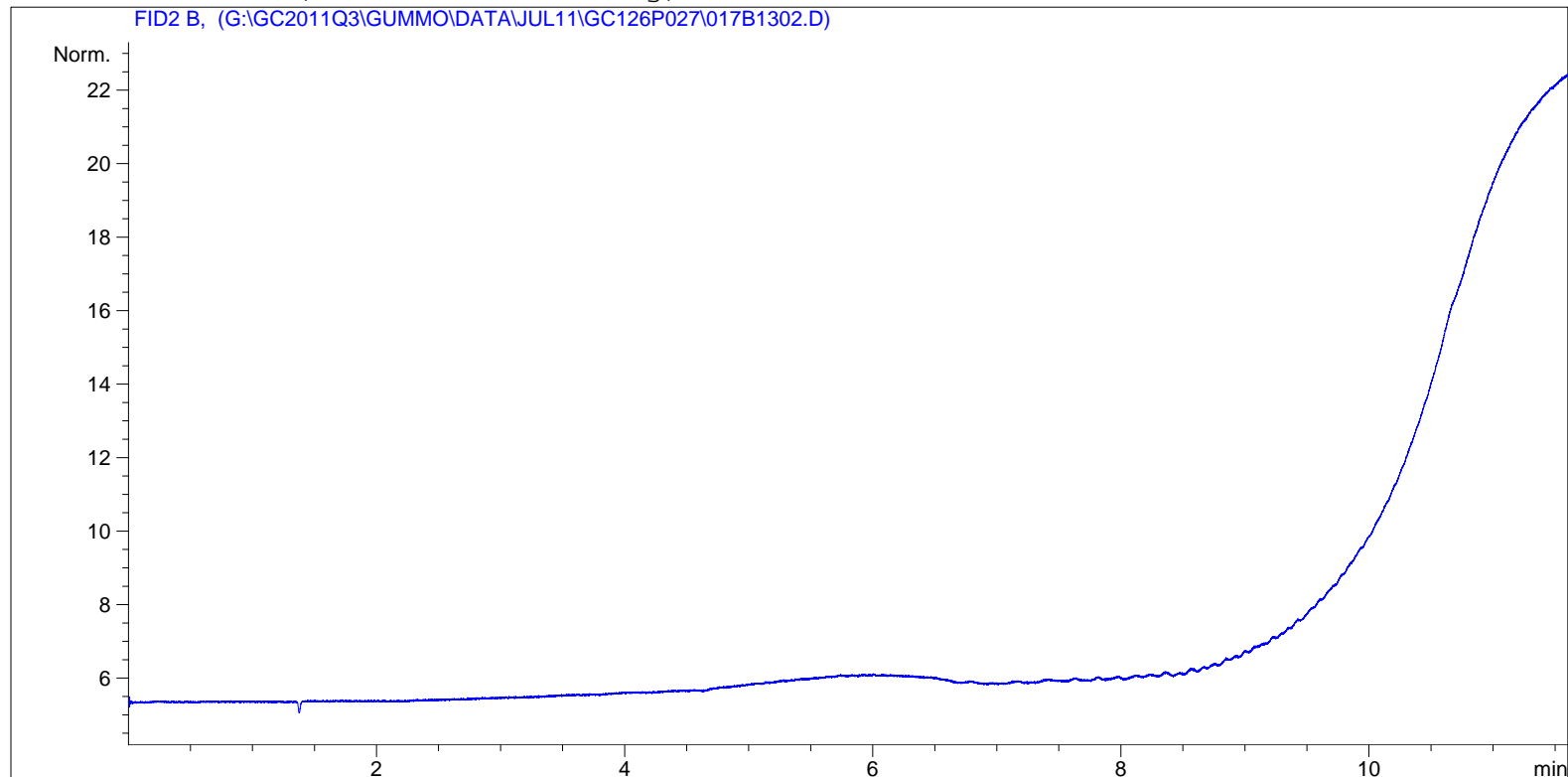
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 17
Injection Date  : 27-Jul-11, 14:46:04       Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	-	-	-	-	-	Methane
1.529	-	-	-	-	-	Ethane

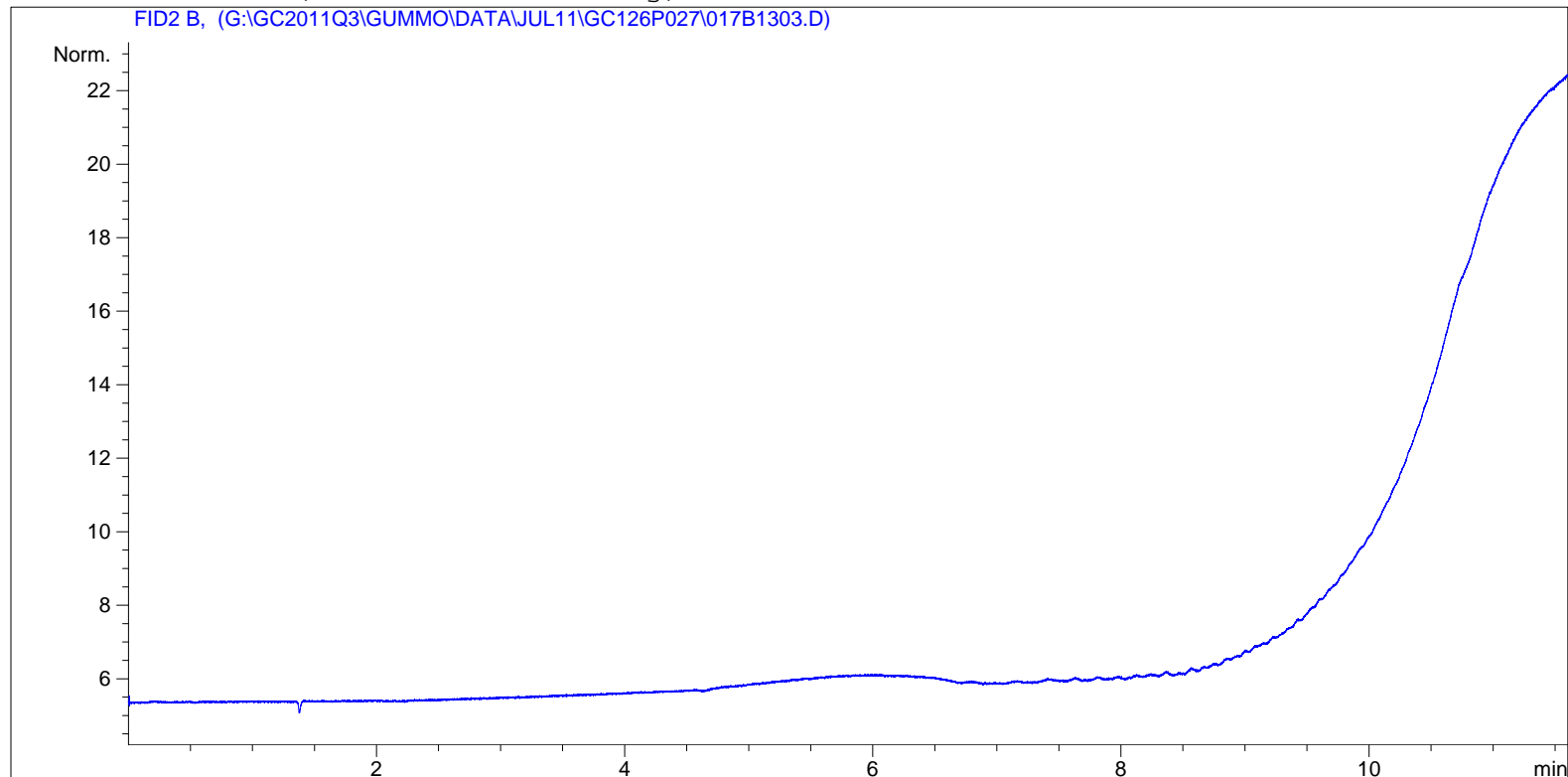
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 17
Injection Date  : 27-Jul-11, 15:01:46      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	-	-	-	-	-	Methane
1.529	-	-	-	-	-	Ethane

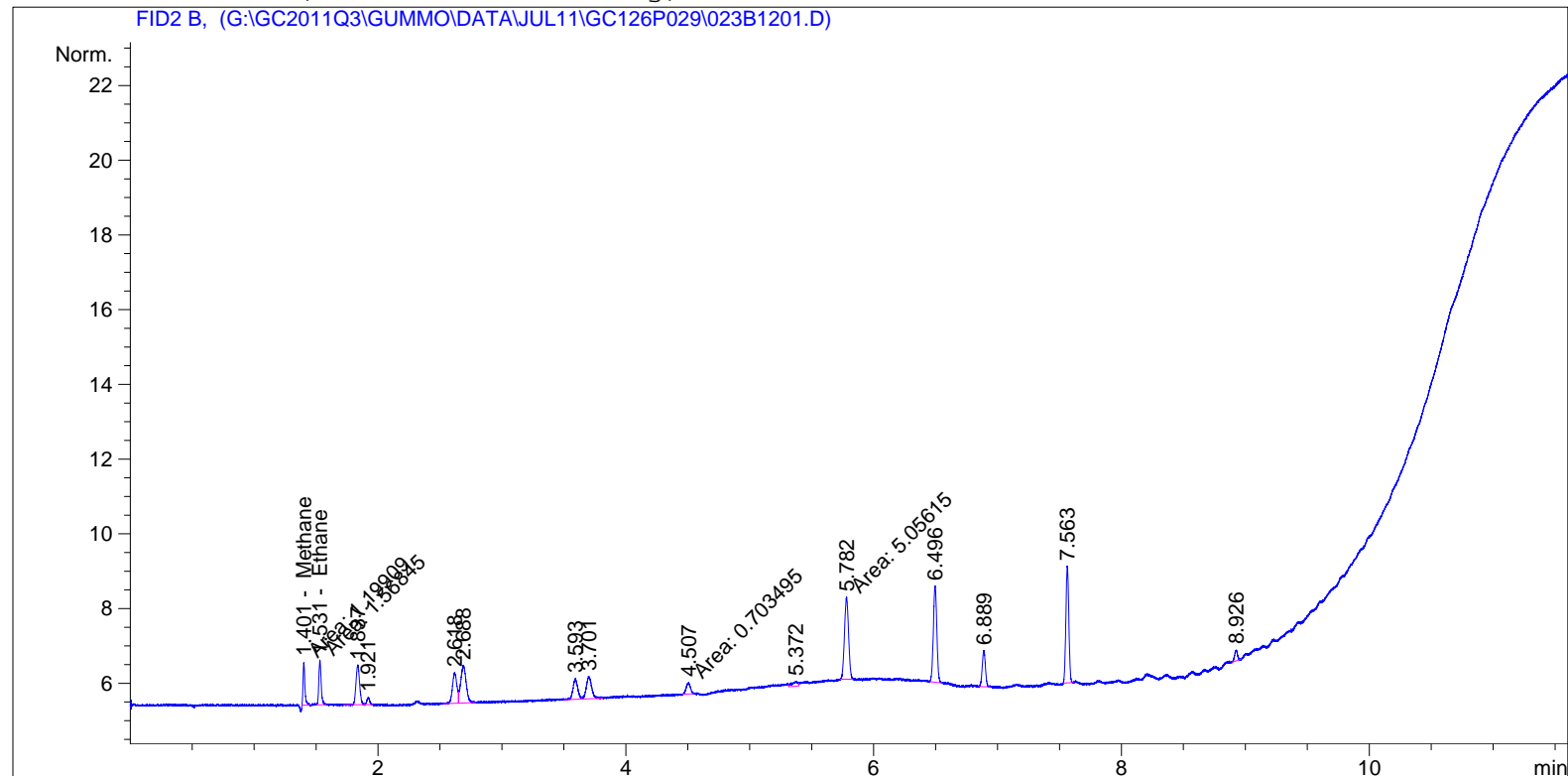
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : MGM                      Seq. Line :   12
Acq. Instrument : Gummo online             Location  : Vial 23
Injection Date  : 28-Jul-11, 20:03:23      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

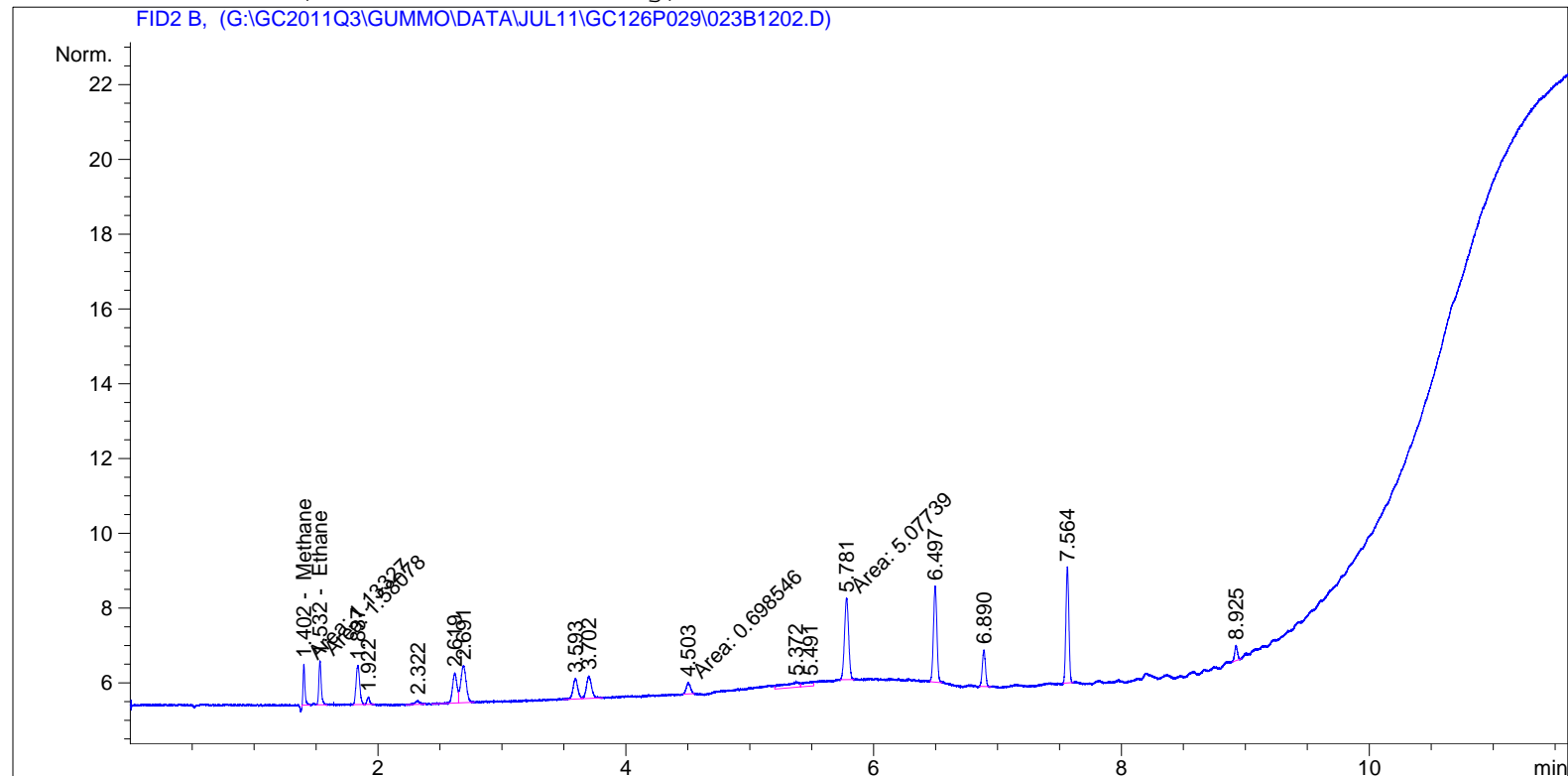
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.401	MM	1.19909	4.57463	5.48540		Methane
1.531	MM	1.56845	2.53149	3.97051		Ethane

Totals : 9.45591

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                               Seq. Line :   12
Acq. Instrument : Gummo online                     Location  : Vial 23
Injection Date  : 28-Jul-11, 20:19:37              Inj       :    2
                                                Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

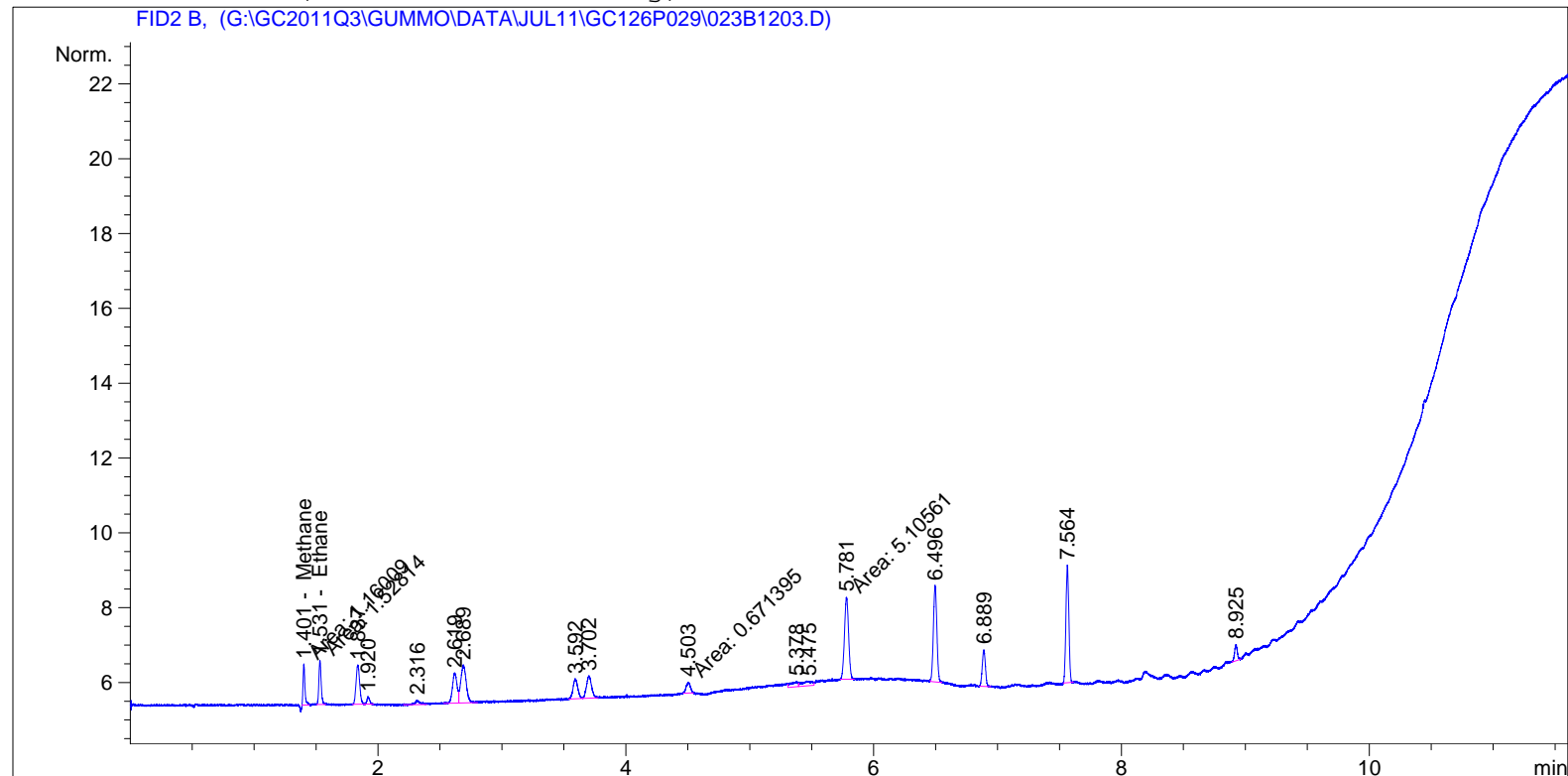
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	MM	1.13327	4.59252	5.20458		Methane
1.532	MM	1.58078	2.52979	3.99905		Ethane

Totals : 9.20363

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                               Seq. Line :   12
Acq. Instrument : Gummo online                     Location  : Vial 23
Injection Date  : 28-Jul-11, 20:35:48              Inj       :    3
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

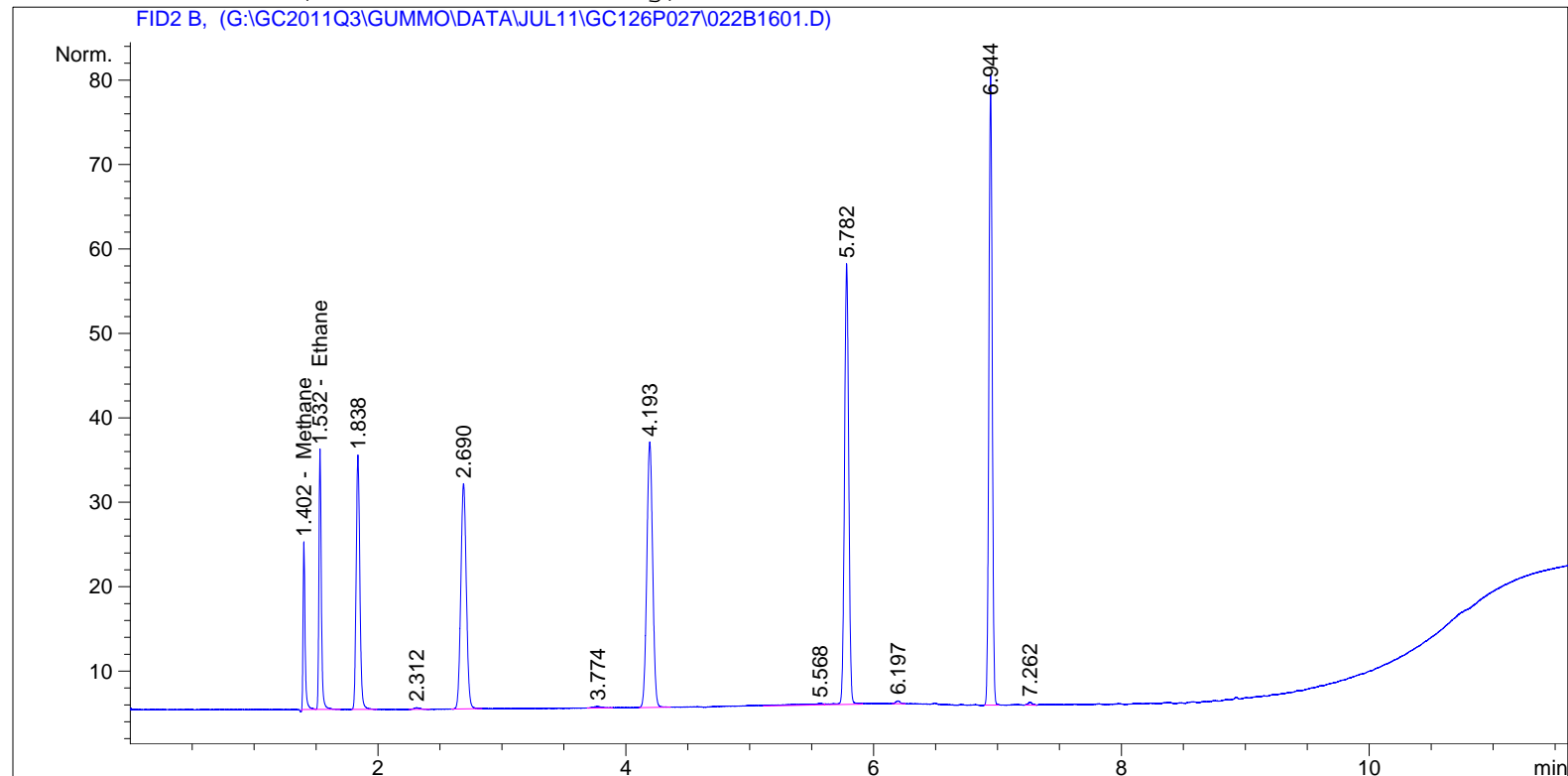
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.401	MM	1.16009	4.58498	5.31900		Methane
1.531	MM	1.52814	2.53723	3.87724		Ethane

Totals : 9.19623

*** End of Report ***

```
=====
Acq. Operator   : MGM                      Seq. Line :   16
Acq. Instrument : Gummo online             Location  : Vial 22
Injection Date  : 27-Jul-11, 17:04:54      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.39817	4.28311	95.93380		Methane
1.532	VB	41.54211	2.32192	96.45757		Ethane

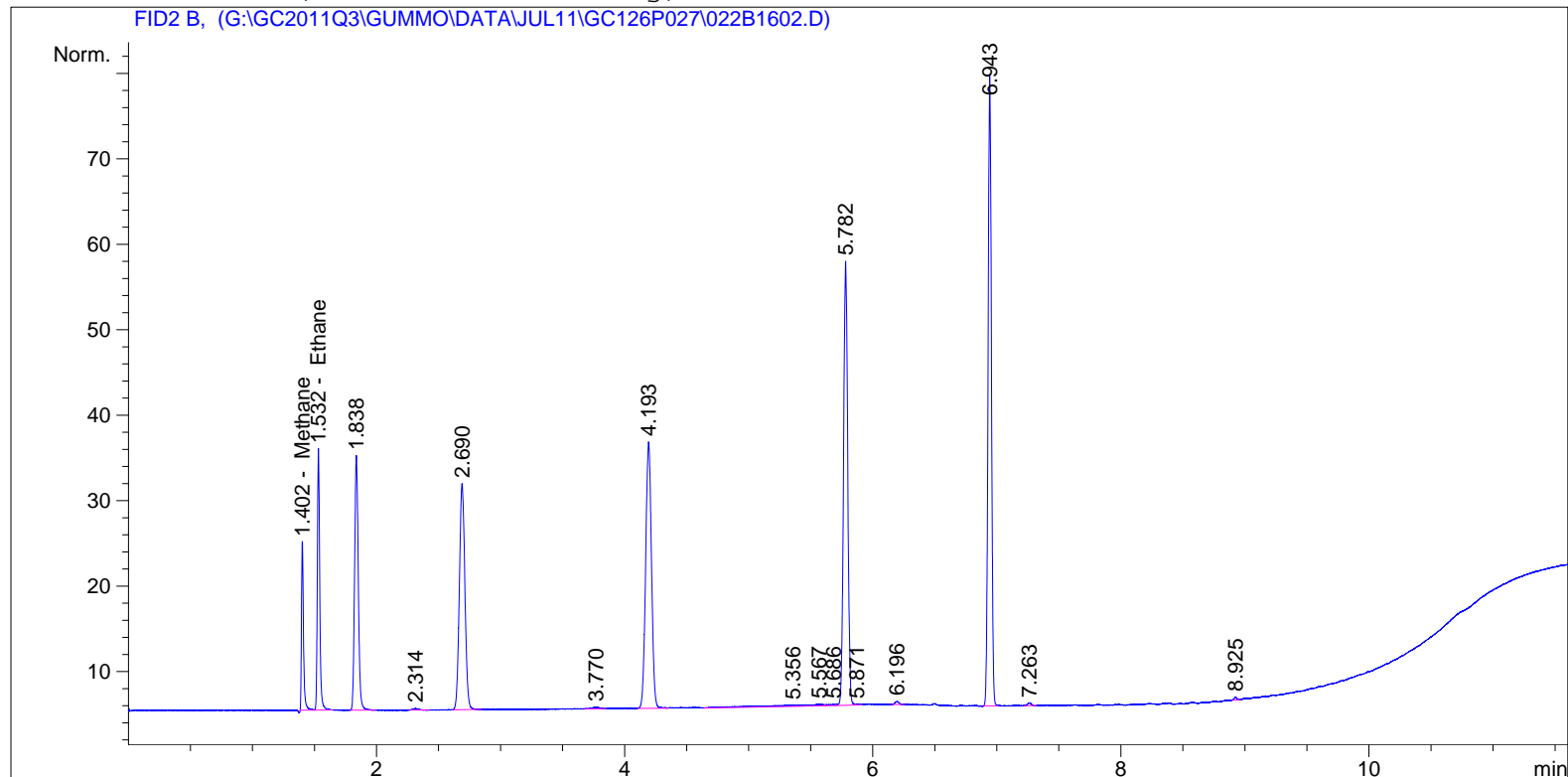
Totals : 192.39137

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : MGM                      Seq. Line :   16
Acq. Instrument : Gummo online             Location  : Vial 22
Injection Date  : 27-Jul-11, 17:21:14      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

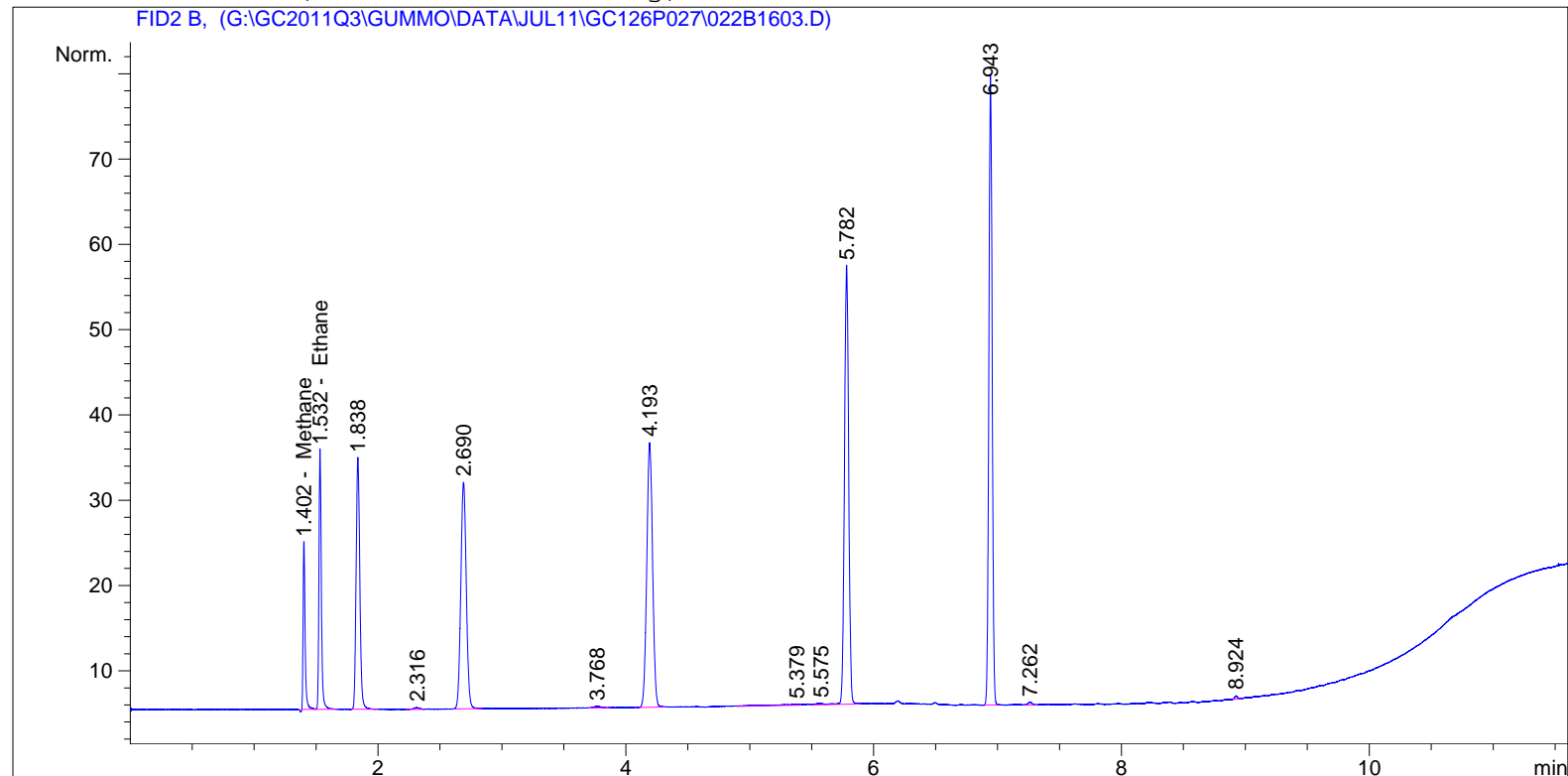
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.11008	4.28332	94.70463		Methane
1.532	VB	41.04580	2.32202	95.30924		Ethane

Totals : 190.01387

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :   16
Acq. Instrument : Gummo online             Location  : Vial 22
Injection Date  : 27-Jul-11, 17:37:38      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.13882	4.28330	94.82724		Methane
1.532	VB	41.06537	2.32202	95.35453		Ethane

Totals : 190.18177

```
=====
*** End of Report ***
=====
```

Calibration Curve Chromatograms

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : 8/15/2011 10:33:28 AM

Rel. Reference Window : 0.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 0.000 %
 Abs. Non-ref. Window : 0.050 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Quadratic (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

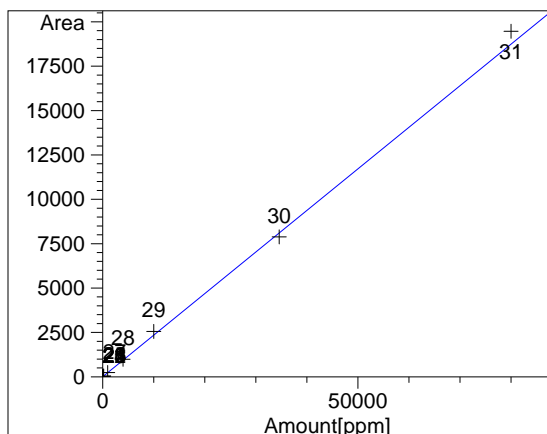
Signal 1: FID1 A,
 Signal 2: FID2 B,

RetTime [min]	Lvl Sig	Amount [ppm]	Area	Amt/Area	Ref Grp Name
1.400	2 21	2.00000	3.98962e-1	5.01300	Methane
	22	5.00000	1.02978	4.85540	
	23	10.00000	2.09188	4.78038	
	24	40.00000	8.87118	4.50898	
	25	100.00000	22.83160	4.37989	
	26	200.40000	46.39222	4.31969	
	27	1002.00000	237.63341	4.21658	
	28	4008.00000	983.14557	4.07671	
	29	1.00200e4	2558.34985	3.91659	
	30	3.45934e4	7887.14111	4.38606	
	31	8.00000e4	1.94662e4	4.10968	
1.529	2 21	2.00000	7.21778e-1	2.77094	Ethane
	22	5.00000	2.03240	2.46015	
	23	10.00000	4.02350	2.48540	
	24	40.00000	16.53412	2.41924	
	25	100.00000	42.40899	2.35799	
	26	199.80000	83.88464	2.38184	
	27	999.00000	430.43059	2.32093	
	28	3996.00000	1780.16764	2.24473	
	29	9990.00000	4596.90381	2.17320	
	32	1.18159e4	4903.06315	2.40990	
	33	2.15459e4	9210.62337	2.33924	
	34	4.96600e4	2.26605e4	2.19148	

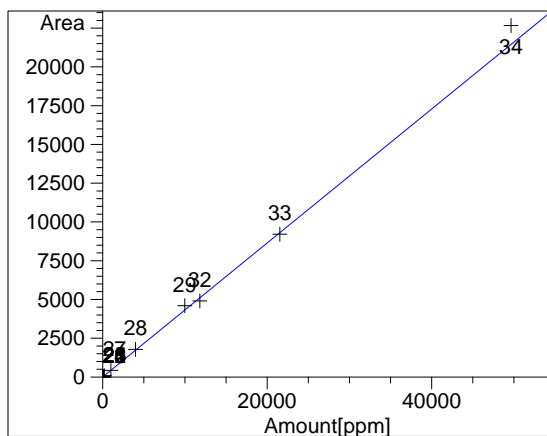
```
=====
                        Peak Sum Table
=====
```

No Entries in table

Calibration Curves



Methane at exp. RT: 1.400
FID2 B,
Correlation: 0.99864
Residual Std. Dev.: 259.81107
Formula: $y = mx + b$
m: 2.34378e-1
b: -8.65628e-2
x: Amount
y: Area
Calibration Level Weights:
Level 21 : 1
Level 22 : 0.16
Level 23 : 0.04
Level 24 : 0.0025
Level 25 : 0.0004
Level 26 : 0.0001
Level 27 : 3.98405e-006
Level 28 : 2.49003e-007
Level 29 : 3.98405e-008
Level 30 : 3.34251e-009
Level 31 : 6.25e-010



Ethane at exp. RT: 1.529
FID2 B,
Correlation: 0.99930
Residual Std. Dev.: 395.71342
Formula: $y = mx + b$
m: 4.32208e-1
b: -1.47637e-1
x: Amount
y: Area
Calibration Level Weights:
Level 21 : 1
Level 22 : 0.16
Level 23 : 0.04
Level 24 : 0.0025
Level 25 : 0.0004
Level 26 : 0.0001
Level 27 : 4.00801e-006
Level 28 : 2.50501e-007
Level 29 : 4.00801e-008
Level 32 : 2.86501e-008
Level 33 : 8.61652e-009
Level 34 : 1.62198e-009

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : Tuesday, May 24, 2011 11:53:12 AM

Rel. Reference Window : 0.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 0.000 %
 Abs. Non-ref. Window : 0.050 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Quadratic (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
 Signal 2: FID2 B,

RetTime [min]	Lvl Sig	Amount [ppm]	Area	Amt/Area	Ref Grp Name
1.400	2 21	2.00000	3.98962e-1	5.01300	Methane
	22	5.00000	1.02978	4.85540	
	23	10.00000	2.09188	4.78038	
	24	40.00000	8.87118	4.50898	
	25	100.00000	22.83160	4.37989	
	26	200.40000	46.39222	4.31969	
	27	1002.00000	237.63341	4.21658	
	28	4008.00000	983.14557	4.07671	
	29	1.00200e4	2558.34985	3.91659	
	30	3.45934e4	7887.14111	4.38606	
	31	8.00000e4	1.94662e4	4.10968	
1.529	2 21	2.00000	7.21778e-1	2.77094	Ethane
	22	5.00000	2.03240	2.46015	
	23	10.00000	4.02350	2.48540	
	24	40.00000	16.53412	2.41924	
	25	100.00000	42.40899	2.35799	
	26	199.80000	83.88464	2.38184	
	27	999.00000	430.43059	2.32093	
	28	3996.00000	1780.16764	2.24473	
	29	9990.00000	4596.90381	2.17320	
	32	1.18159e4	4903.06315	2.40990	
	33	2.15459e4	9210.62337	2.33924	
	34	4.96600e4	2.26605e4	2.19148	
1.833	2 21	2.00000	1.13678	1.75936	Propane
	22	5.00000	3.01925	1.65604	
	23	10.00000	5.95178	1.68017	
	24	10.00000	24.73322	1.61726	

RetTime [min]	Lvl Sig	Amount [ppm]	Area	Amt/Area	Ref	Grp	Name
-----	--	--	-----	-----	----	--	-----
		73	26.00000	31.31090	8.30382e-1		
		3	40.80000	51.23030	7.96404e-1		
		4	102.00000	129.74548	7.86155e-1		
		74	104.00000	128.96110	8.06445e-1		
		75	260.00000	329.25161	7.89670e-1		
6.888	2	71	4.96150	1.88232	2.63585		Trichloroethene
		72	10.32000	4.41588	2.33702		
		73	25.80000	11.28674	2.28587		
		74	103.20000	46.81319	2.20451		
		75	258.00000	119.30682	2.16249		
6.940	2	21	2.00000	2.63961	7.57687e-1		Heptane
		22	5.00000	6.80529	7.34722e-1		
		23	10.00000	13.76124	7.26679e-1		
		24	40.00000	56.47528	7.08274e-1		
		25	100.00000	144.50900	6.91998e-1		
		32	117.55270	166.41250	7.06393e-1		
		33	214.35320	313.39470	6.83972e-1		
		34	494.05200	774.33451	6.38034e-1		
7.562	2	1	2.00000	2.51971	7.93743e-1		Toluene
		2	10.00000	14.23549	7.02470e-1		
		3	40.00000	58.91923	6.78896e-1		
		4	100.00000	148.28142	6.74393e-1		
7.835	2	81	4.81800	1.94391	2.47851		1,2 Dibromoethane
		82	10.43600	4.10404	2.54286		
		83	36.93900	13.42478	2.75155		
		84	110.82000	44.30151	2.50149		
7.978	2	71	4.94000	2.16272	2.28416		Tetrachloroethene
		72	10.28000	4.93587	2.08271		
		73	25.70000	12.60912	2.03821		
		74	102.80000	51.84781	1.98273		
		75	257.00000	131.18059	1.95913		

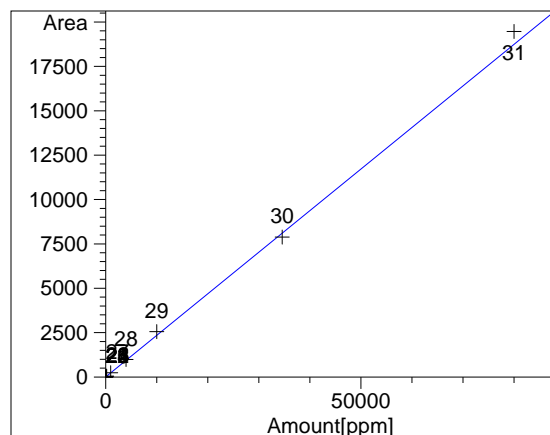
1 Warnings or Errors :

Warning : Cal. table open and changed while report was generated.

Peak Sum Table

No Entries in table

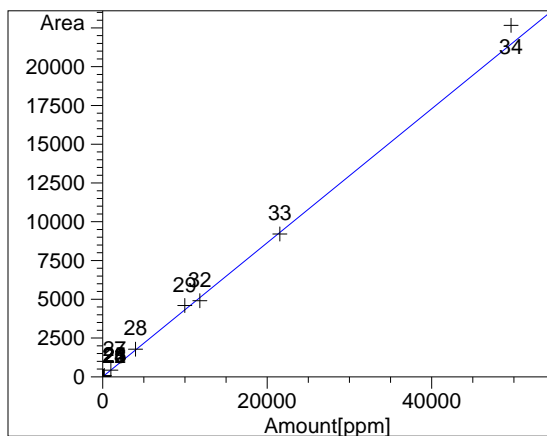
Calibration Curves



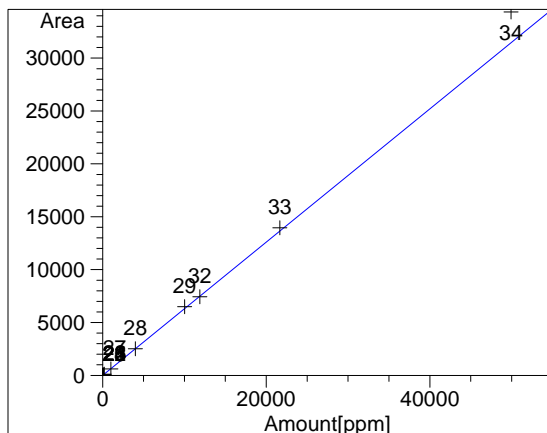
Methane at exp. RT: 1.400
FID2 B,
Correlation: 0.99864
Residual Std. Dev.: 259.81107
Formula: $y = mx + b$
m: 2.34378e-1
b: -8.65628e-2
x: Amount
y: Area

Calibration Level Weights:

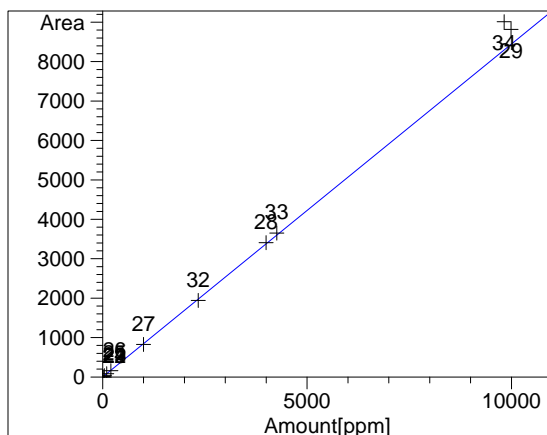
Level 21 : 1
Level 22 : 0.16
Level 23 : 0.04
Level 24 : 0.0025
Level 25 : 0.0004
Level 26 : 0.0001
Level 27 : 3.98405e-006



Ethane at exp. RT: 1.529
 FID2 B,
 Correlation: 0.99930
 Residual Std. Dev.: 395.71342
 Formula: $y = mx + b$
 m: 4.32208e-1
 b: -1.47637e-1
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 21 : 1
 Level 22 : 0.16
 Level 23 : 0.04
 Level 24 : 0.0025
 Level 25 : 0.0004
 Level 26 : 0.0001
 Level 27 : 4.00801e-006
 Level 28 : 2.50501e-007
 Level 29 : 4.00801e-008
 Level 32 : 2.86501e-008
 Level 33 : 8.61652e-009
 Level 34 : 1.62198e-009



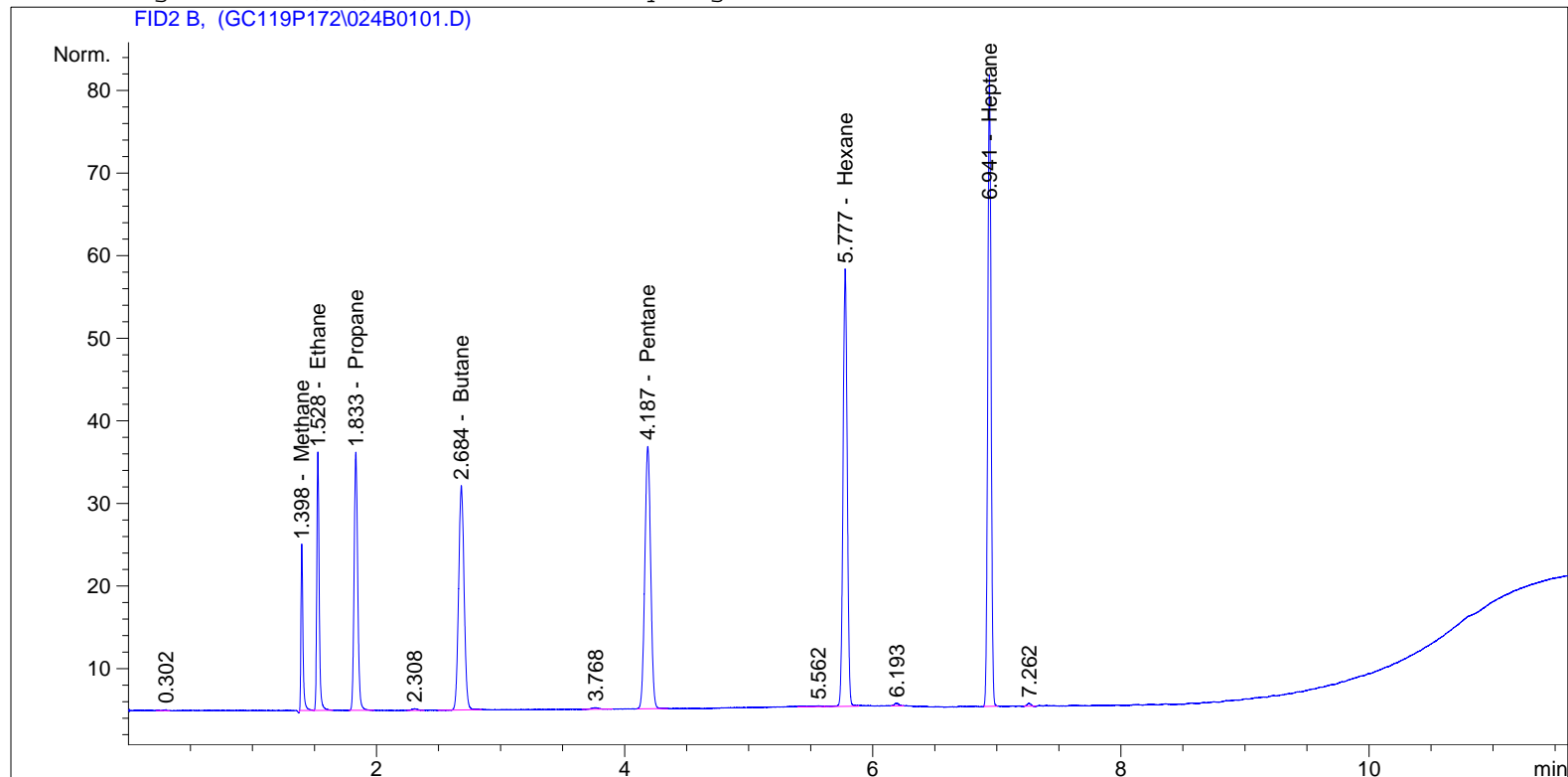
Propane at exp. RT: 1.833
 FID2 B,
 Correlation: 0.99912
 Residual Std. Dev.: 925.65701
 Formula: $y = mx + b$
 m: 6.30207e-1
 b: -1.33498e-1
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 21 : 1
 Level 22 : 0.16
 Level 23 : 0.04
 Level 24 : 0.0025
 Level 25 : 0.0004
 Level 26 : 0.0001
 Level 27 : 3.98405e-006
 Level 28 : 2.49003e-007
 Level 29 : 3.98405e-008
 Level 32 : 2.83411e-008
 Level 33 : 8.52358e-009
 Level 34 : 1.60449e-009



Butane at exp. RT: 2.682
 FID2 B,
 Correlation: 0.99921
 Residual Std. Dev.: 255.46467
 Formula: $y = mx + b$
 m: 8.45041e-1
 b: -8.23901e-2
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 21 : 1
 Level 22 : 0.16
 Level 23 : 0.04
 Level 24 : 0.0025
 Level 25 : 0.0004
 Level 26 : 0.0001
 Level 27 : 4.00801e-006


```
=====
Acq. Operator   : stg                      Seq. Line :    1
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 18-May-11, 09:56:18      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.398	BV	22.59706	4.26682	96.41751		Methane
1.528	VB	41.98631	2.33326	97.96495		Ethane
1.833	BB	63.04581	1.59872	100.79231		Propane
2.684	VB	83.78437	1.19090	99.77854		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BB	104.10626	9.62037e-1	100.15408		Pentane
4.500		-	-	-		Methylene chloride
5.777	VB	125.70641	7.97258e-1	100.22040		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.941	BB	143.57845	6.99635e-1	100.45249		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 695.78028

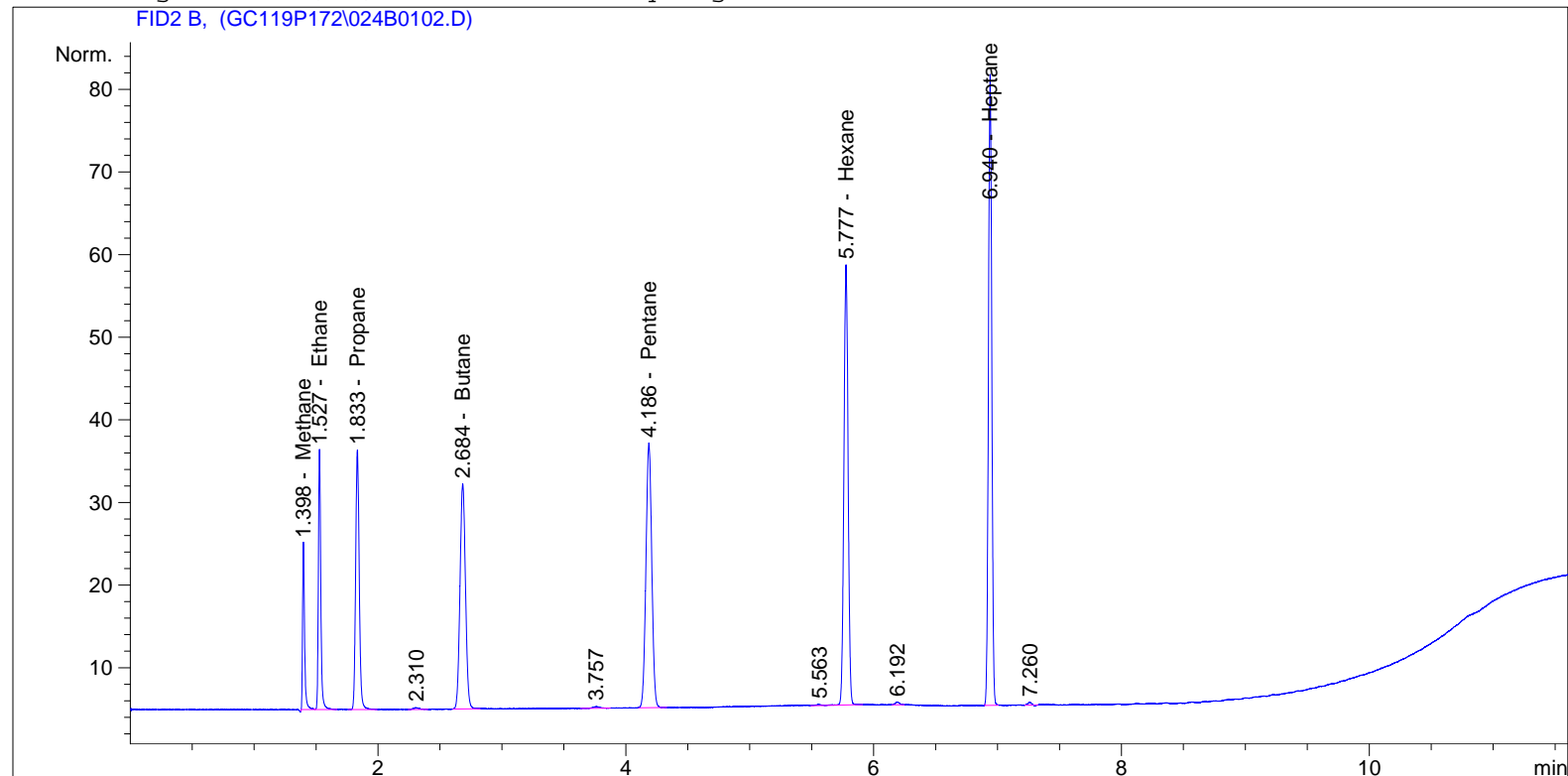
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    1
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 10:17:02      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



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=====
External Standard Report
=====
```

```
Sorted By      :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.398	BV	22.89229	4.26660	97.67224		Methane
1.527	VB	42.51875	2.33316	99.20311		Ethane
1.833	PB	63.63161	1.59869	101.72700		Propane
2.684	BB	83.89172	1.19090	99.90628		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186	BB	104.52962	9.62033e-1	100.56092		Pentane
4.500		-	-	-		Methylene chloride
5.777	VB	125.91967	7.97257e-1	100.39038		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	144.36974	6.99628e-1	101.00512		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 700.46506

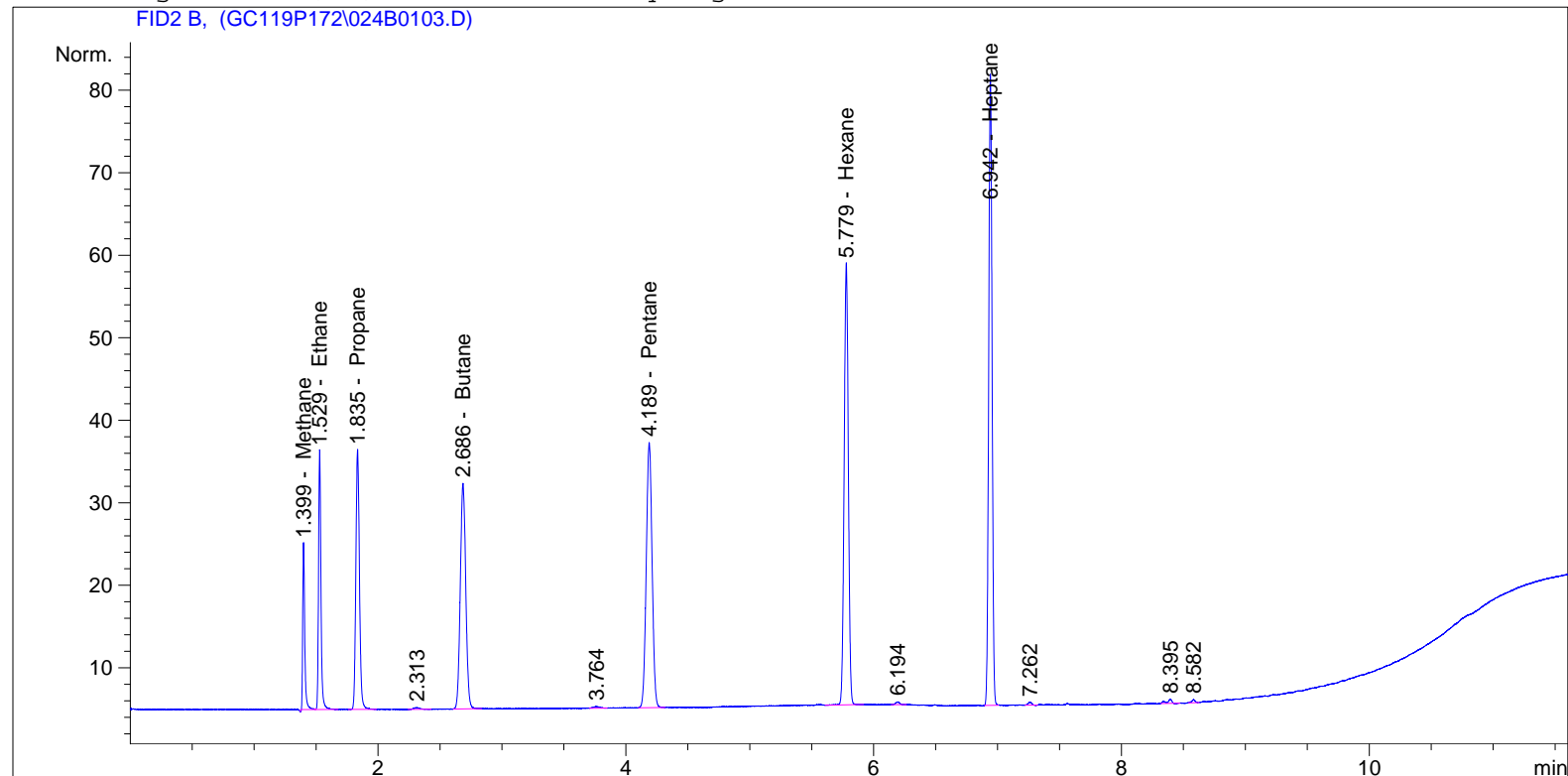
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    1
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 10:37:37      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	VV	22.80276	4.26666	97.29172		Methane
1.529	VB	42.44446	2.33317	99.03035		Ethane
1.835	VB	63.64005	1.59869	101.74045		Propane
2.686	BB	84.12889	1.19089	100.18849		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.189	BB	104.92593	9.62029e-1	100.94176		Pentane
4.500		-	-	-		Methylene chloride
5.779	VB	126.24009	7.97257e-1	100.64577		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

FHR Pine Bend LLC
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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	144.78664	6.99625e-1	101.29629		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 701.13482

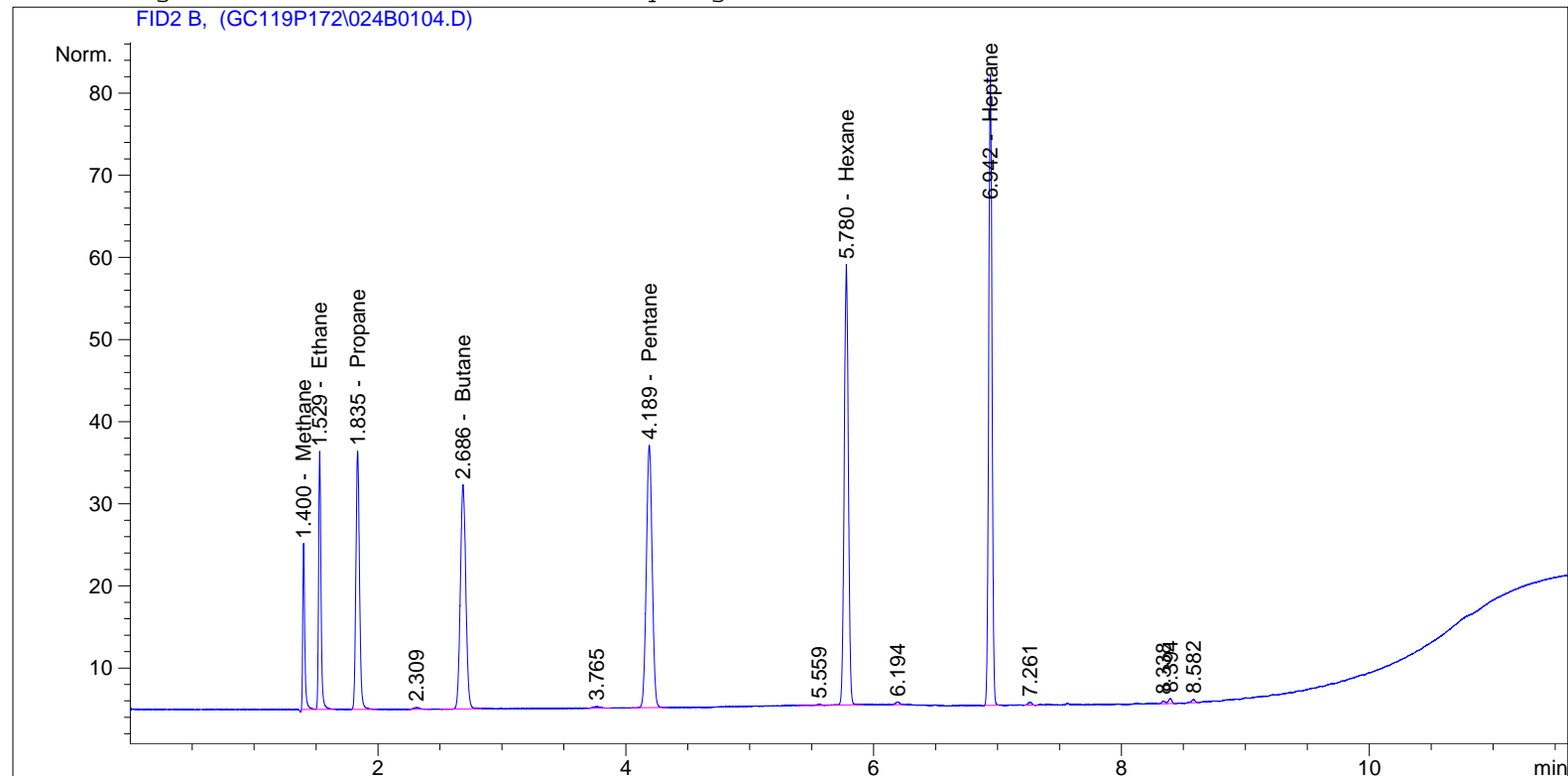
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

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Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 10:58:17      Inj       :    4
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:      : 1.0000
Dilution:        : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	BV	22.79976	4.26667	97.27898		Methane
1.529	VB	42.26377	2.33321	98.61017		Ethane
1.835	PP	63.42147	1.59870	101.39170		Propane
2.686	BB	83.86121	1.19090	99.86997		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.189	BB	104.61473	9.62032e-1	100.64271		Pentane
4.500		-	-	-		Methylene chloride
5.780	VB	125.92989	7.97257e-1	100.39853		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

FHR Pine Bend LLC
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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	144.37062	6.99628e-1	101.00574		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 699.19779

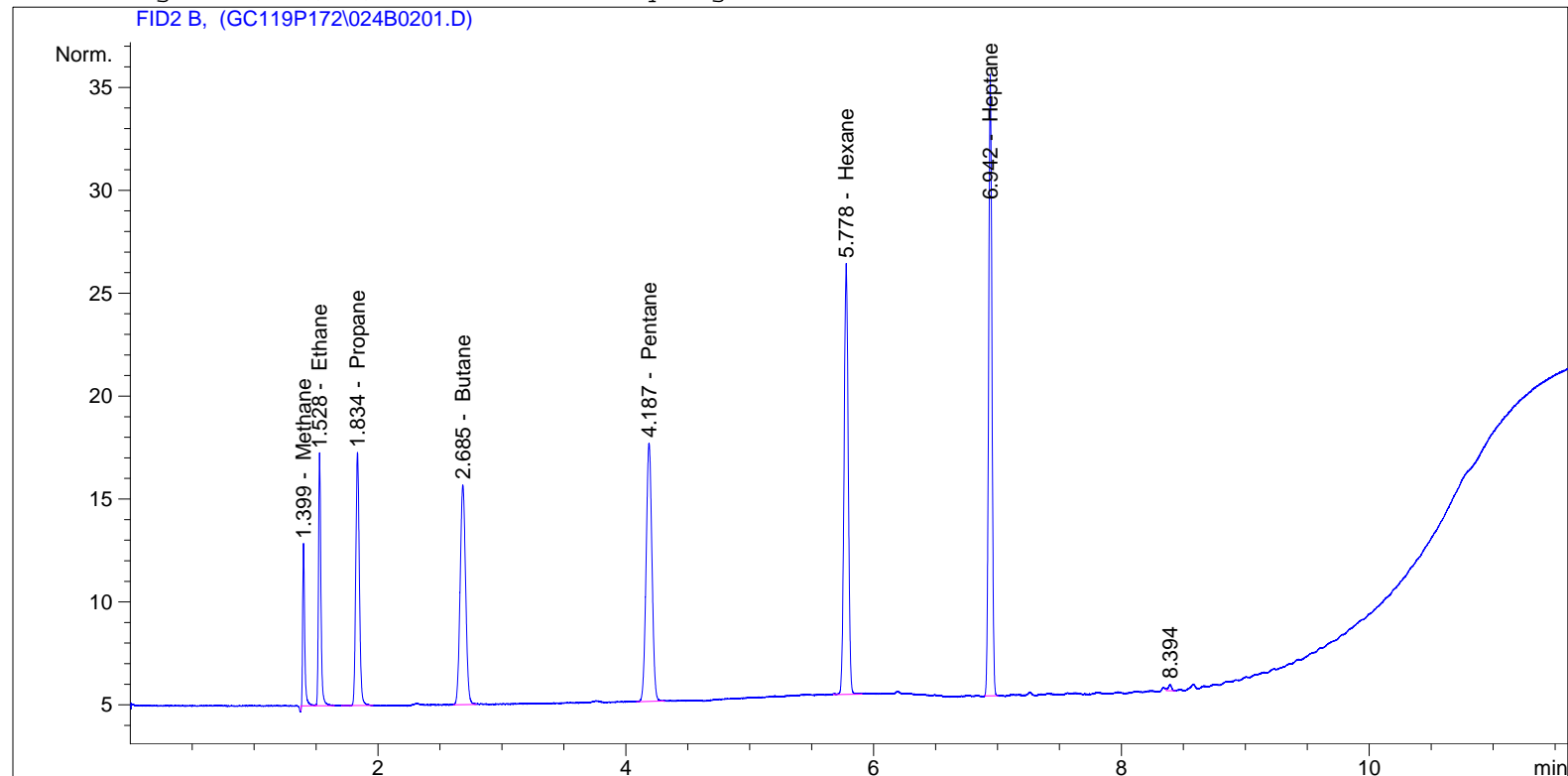
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :    2
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 11:18:42      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:     : 1.0000
Dilution:       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV	8.89300	4.29264	38.17450		Methane
1.528	VB	16.62342	2.34522	38.98558		Ethane
1.834	VB	24.77215	1.60356	39.72350		Propane
2.685	BV	32.86285	1.19242	39.18648		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BB	40.99690	9.63677e-1	39.50775		Pentane
4.500		-	-	-		Methylene chloride
5.778	BB	49.51658	7.97605e-1	39.49469		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C4 ENV(1=600,2=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	56.51416	7.01537e-1	39.64678		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 274.71928

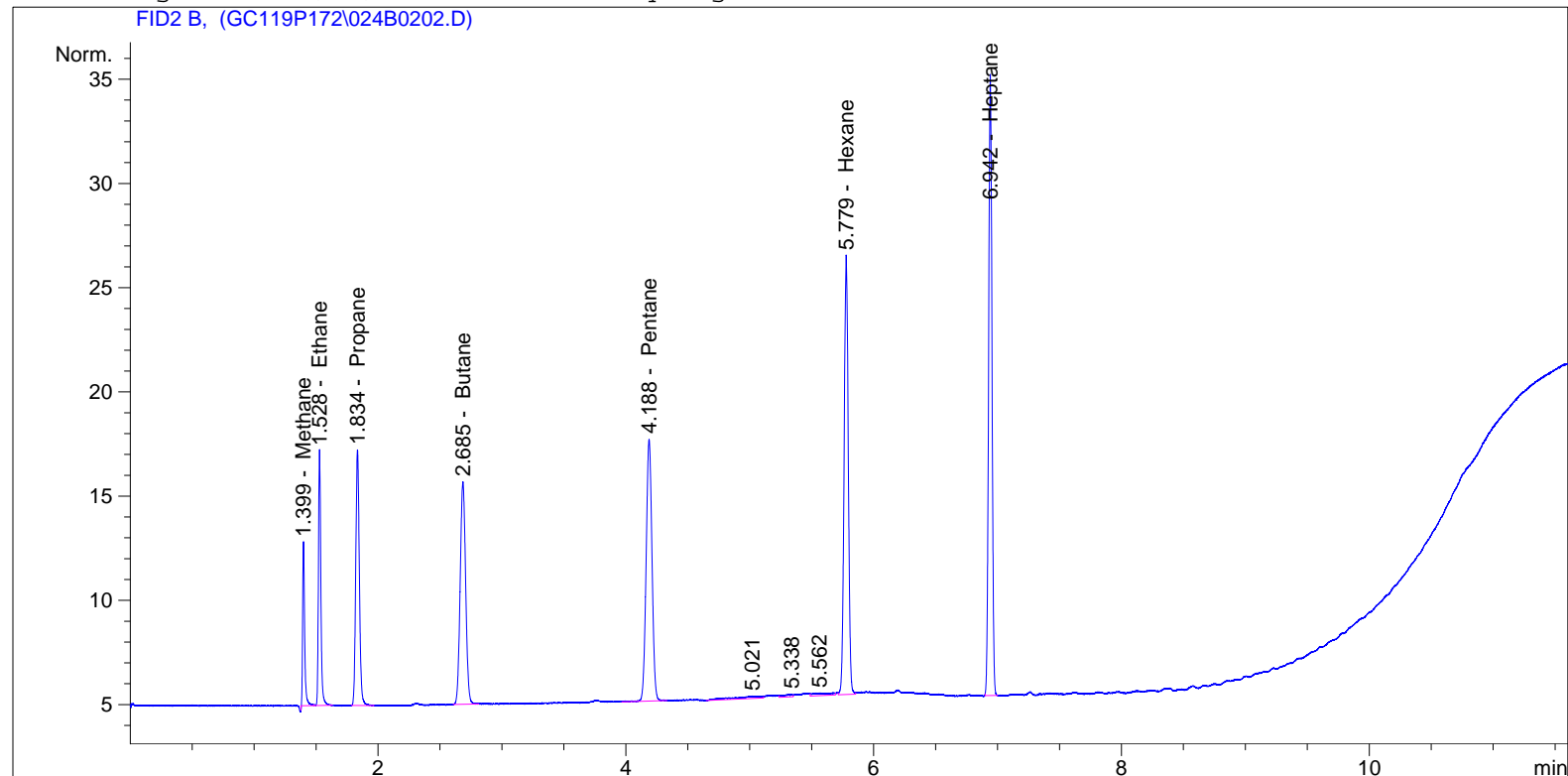
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    2
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 11:37:41      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BB	8.85325	4.29284	38.00556		Methane
1.528	PB	16.48388	2.34539	38.66110		Ethane
1.834	BB	24.78247	1.60355	39.73997		Propane
2.685	BB	32.77050	1.19243	39.07659		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.188	VB	41.15207	9.63666e-1	39.65686		Pentane
4.500		-	-	-		Methylene chloride
5.779	BV	49.72079	7.97603e-1	39.65745		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C4 ENV(1=600,2=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	56.39732	7.01544e-1	39.56518		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 274.36272

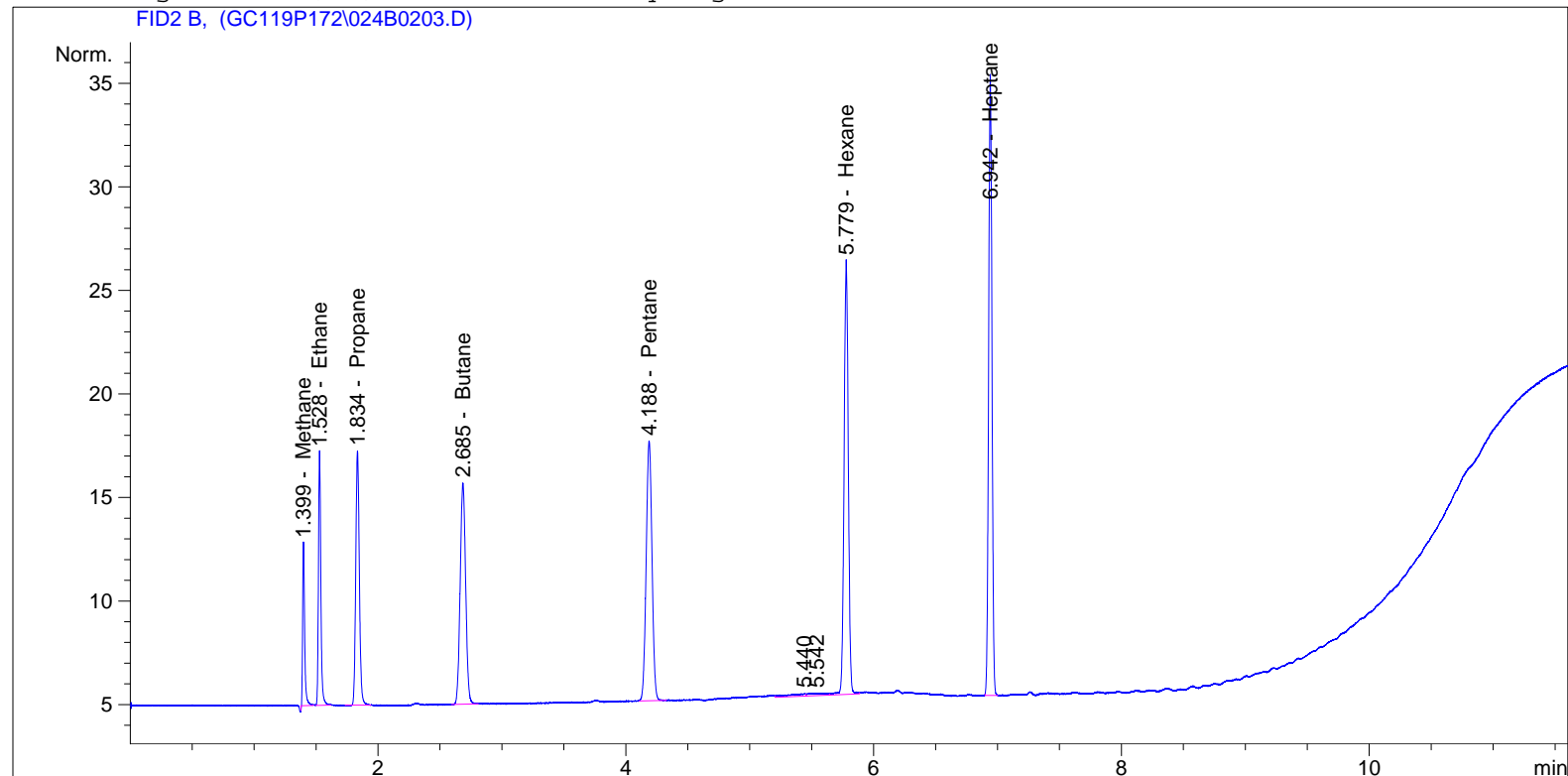
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    2
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 11:56:45      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:     : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BB	8.86728	4.29277	38.06518		Methane
1.528	BB	16.49505	2.34537	38.68707		Ethane
1.834	BP	24.64503	1.60360	39.52068		Propane
2.685	BB	32.82633	1.19243	39.14302		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.188	BB	40.93287	9.63681e-1	39.44622		Pentane
4.500		-	-	-		Methylene chloride
5.779	VB	50.21059	7.97597e-1	40.04784		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C4 ENV(1=600,2=400)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	56.51437	7.01537e-1	39.64693		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 274.55694

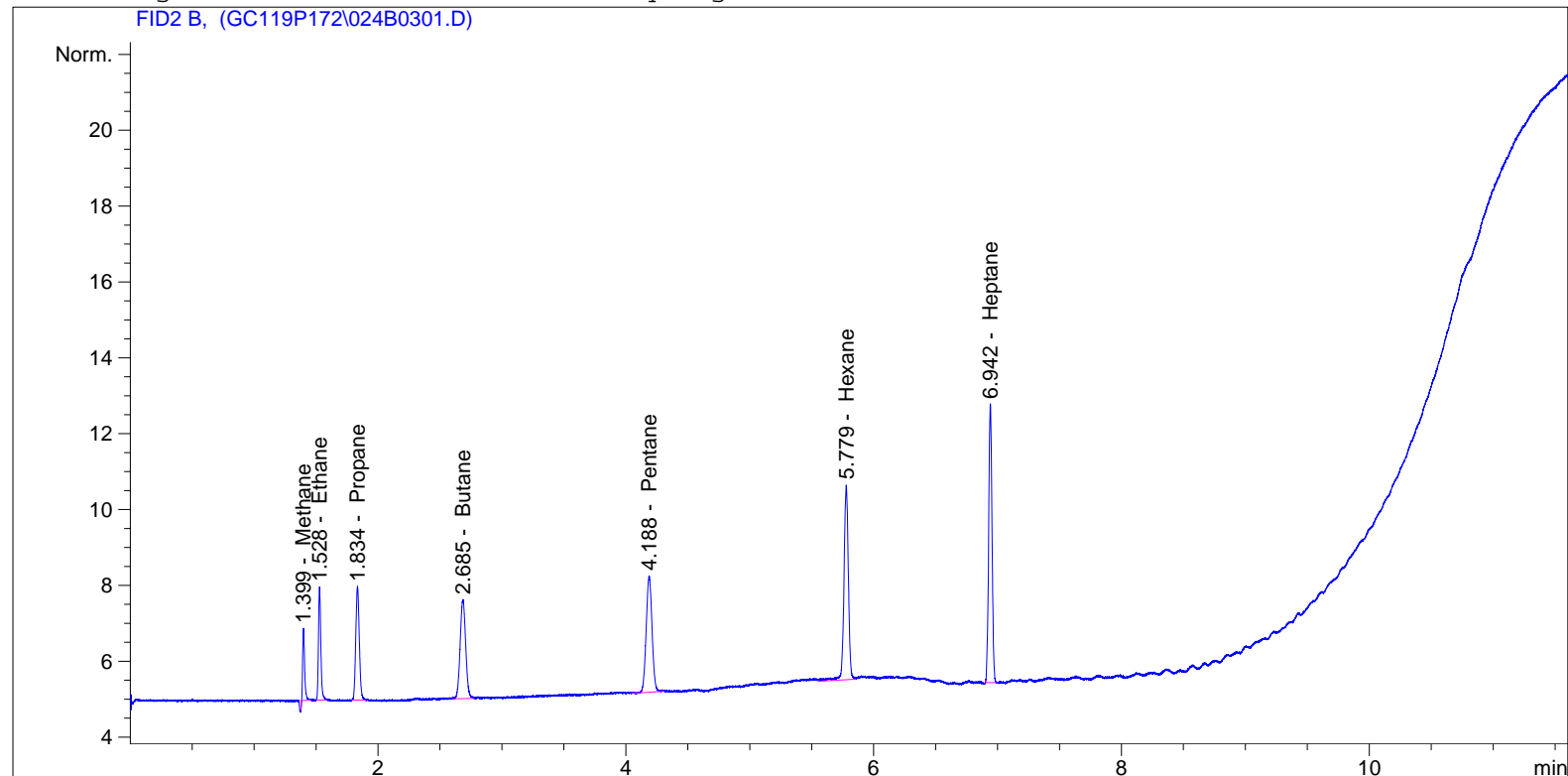
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    3
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 12:16:00      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BB	2.04584	4.43519	9.07368		Methane
1.528	BP	3.96721	2.40839	9.55457		Ethane
1.834	PP	5.95966	1.62872	9.70663		Propane
2.685	BV	8.09250	1.20012	9.71198		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.188	VB	10.09599	9.71954e-1	9.81284		Pentane
4.500		-	-	-		Methylene chloride
5.779	VV	12.81262	7.99249e-1	10.24047		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	13.74751	7.11296e-1	9.77855		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 67.87871

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

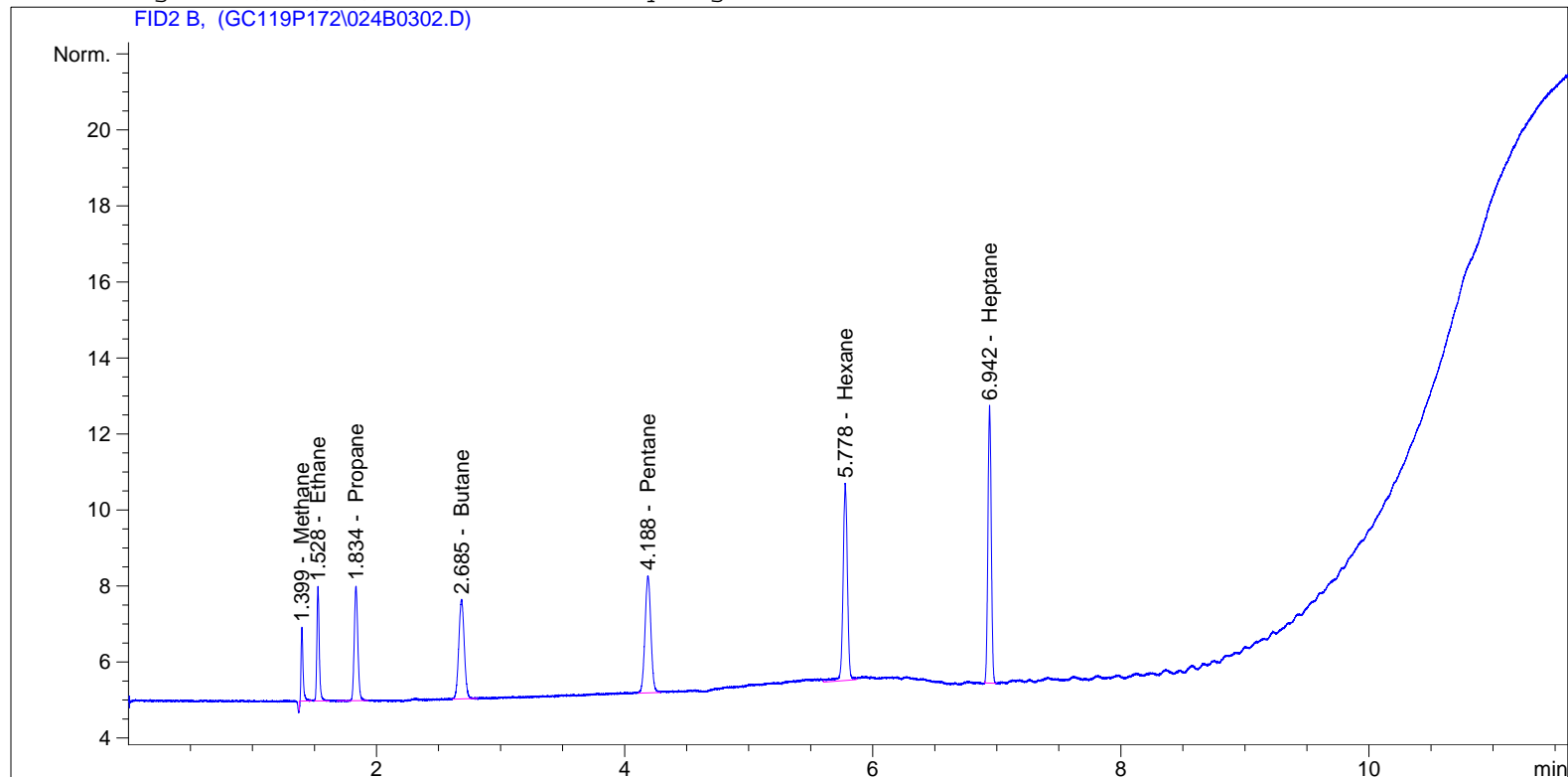
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*** End of Report ***


```

=====
Acq. Operator   : stg                      Seq. Line :    3
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 12:35:14      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====

```



External Standard Report

```

=====
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BB	2.11292	4.42931	9.35879		Methane
1.528	BB	4.06539	2.40638	9.78289		Ethane
1.834	BB	6.02056	1.62839	9.80379		Propane
2.685	BB	8.07624	1.20014	9.69262		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.188	BV	10.13383	9.71913e-1	9.84920		Pentane
4.500		-	-	-		Methylene chloride
5.778	VV	12.93680	7.99227e-1	10.33945		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C3 ENV(1=900,2=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	13.77572	7.11270e-1	9.79825		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 68.62499

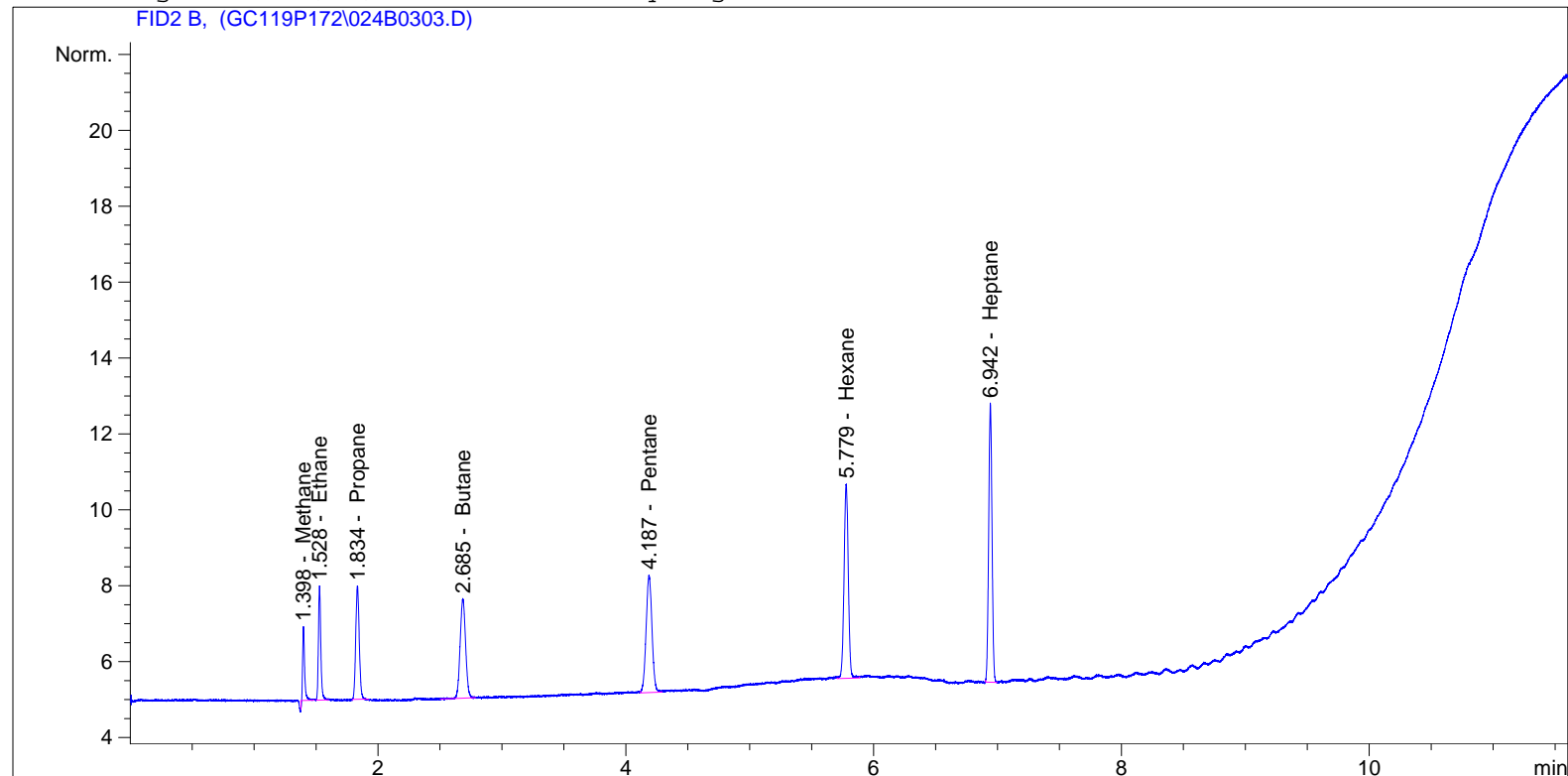
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    3
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 12:54:21      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.398	BB	2.11688	4.42897	9.37562		Methane
1.528	BB	4.03791	2.40693	9.71899		Ethane
1.834	PP	5.87511	1.62920	9.57171		Propane
2.685	BB	8.01190	1.20022	9.61607		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BV	10.21751	9.71824e-1	9.92962		Pentane
4.500		-	-	-		Methylene chloride
5.779	VB	12.33590	7.99334e-1	9.86051		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C3 ENV(1=900,2=100)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	13.76049	7.11284e-1	9.78761		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 67.86012

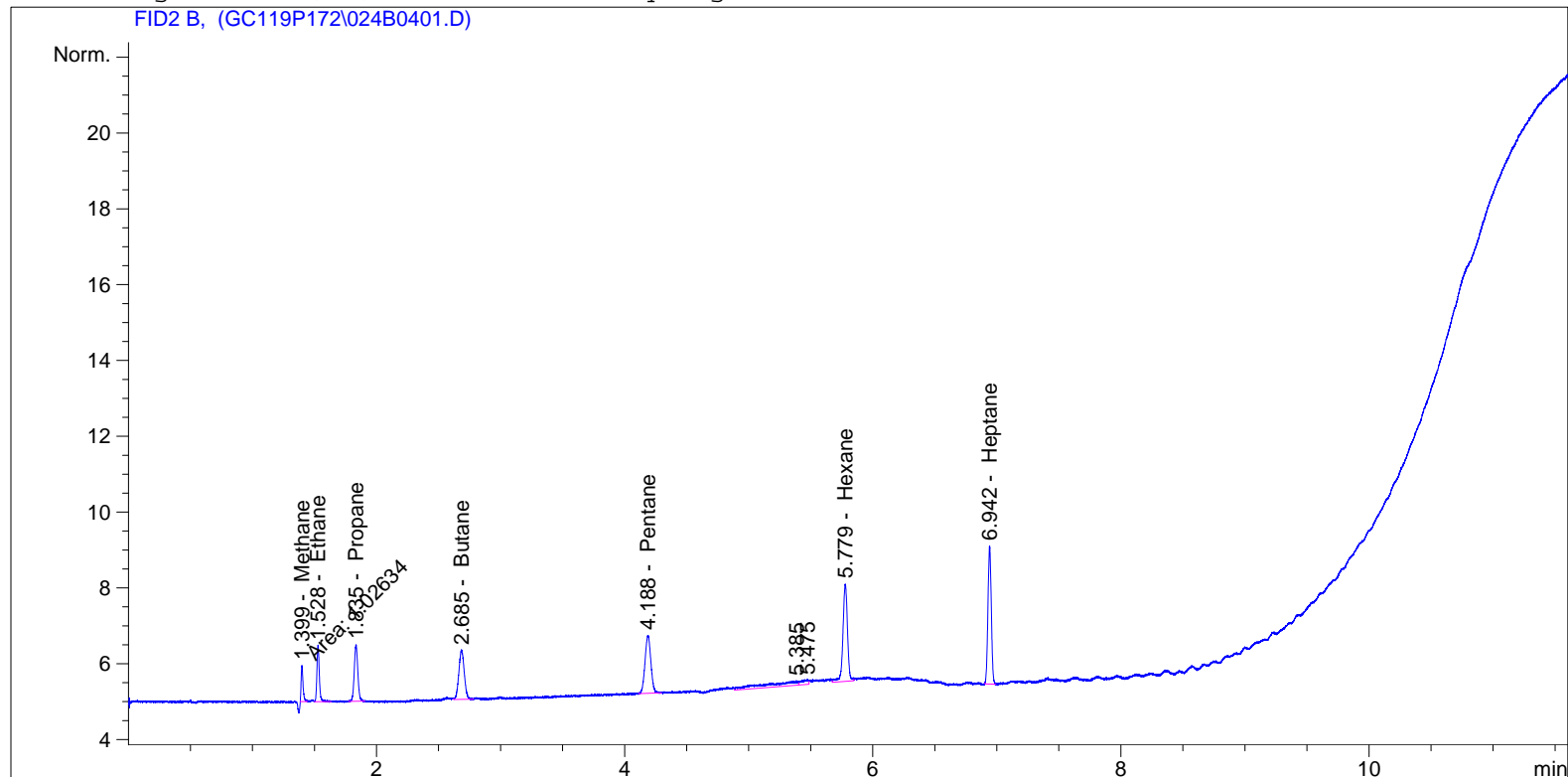
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    4
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 13:13:35      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:     : 1.0000
Dilution:       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	MM	1.02634	4.61908	4.74074		Methane
1.528	VB	2.01522	2.48875	5.01537		Ethane
1.835	BP	2.96863	1.66211	4.93419		Propane
2.685	BV	3.93302	1.21092	4.76256		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.188	BB	4.97230	9.83271e-1	4.88912		Pentane
4.500		-	-	-		Methylene chloride
5.779	VV	6.58049	8.01348e-1	5.27327		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	6.82341	7.24382e-1	4.94276		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 34.55801

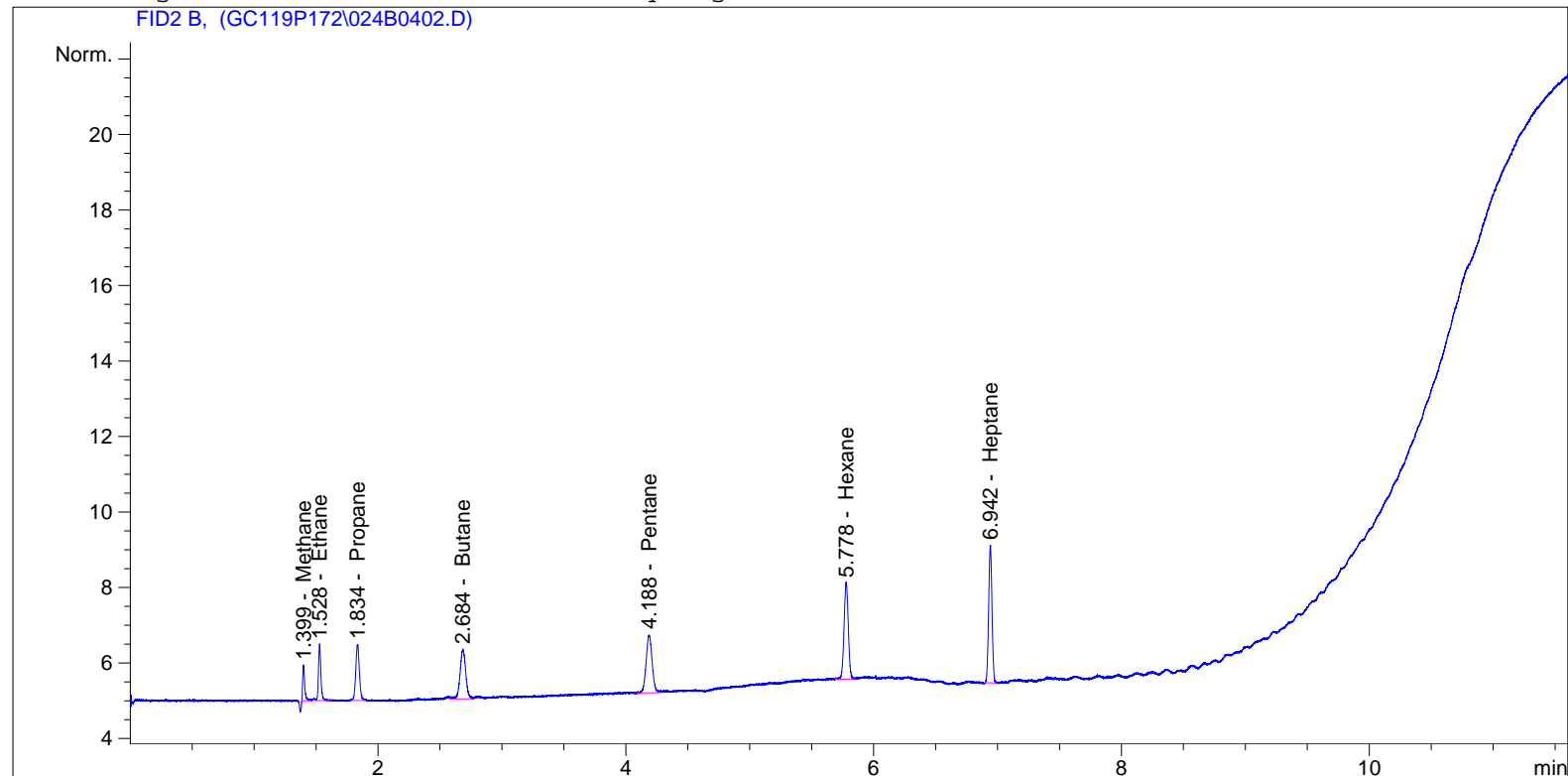
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    4
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 13:32:56      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV	1.06016	4.60731	4.88449		Methane
1.528	VB	2.02926	2.48762	5.04802		Ethane
1.834	BP	3.04442	1.66045	5.05512		Propane
2.684	VV	4.18689	1.20964	5.06465		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.188	BV	5.15168	9.82494e-1	5.06149		Pentane
4.500		-	-	-		Methylene chloride
5.778	BV	6.11964	8.01673e-1	4.90596		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	6.80400	7.24456e-1	4.92920		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 34.94892

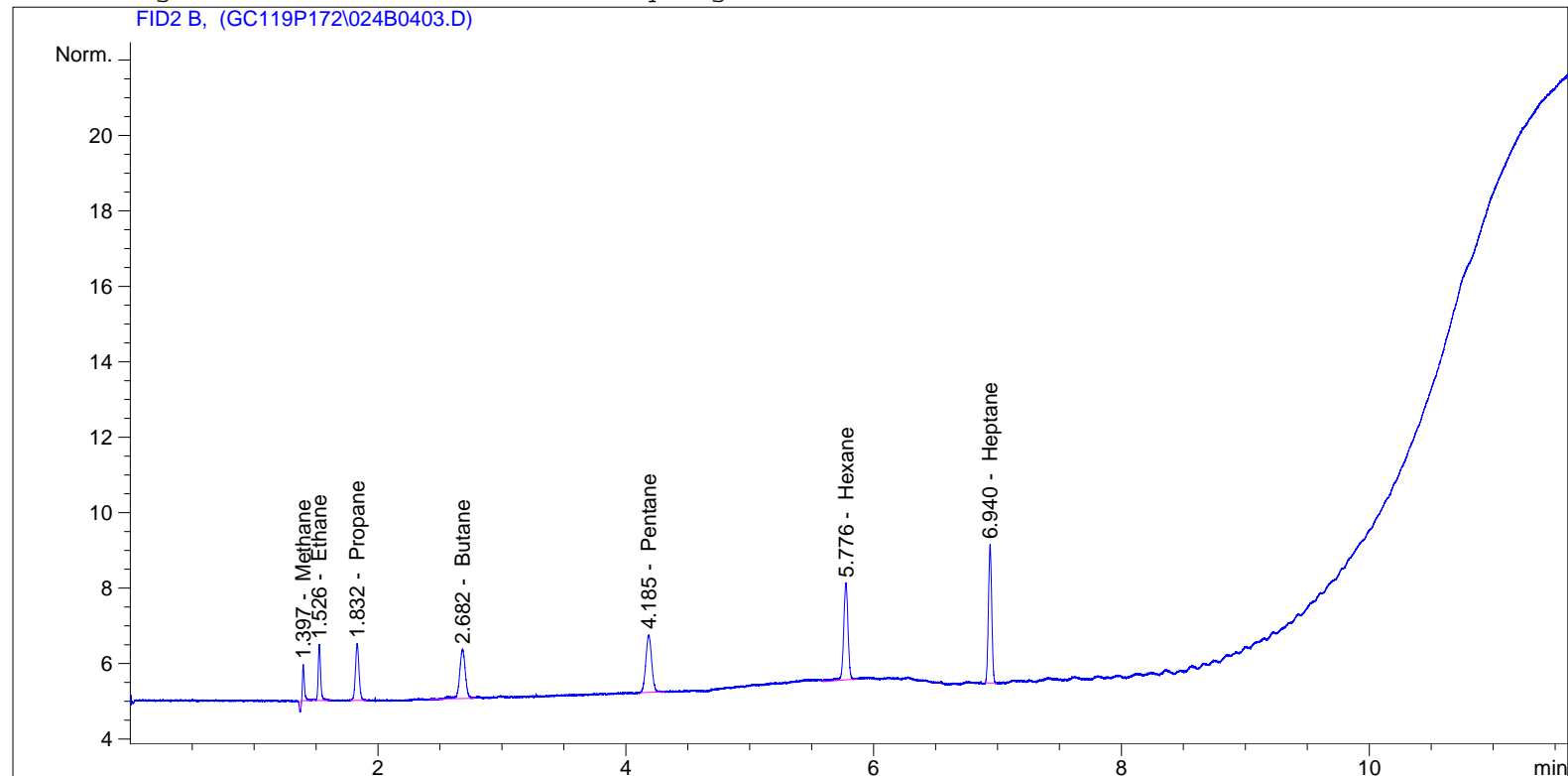
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :    4
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 13:52:12      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method  : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397	BB	1.00284	4.62773	4.64089		Methane
1.526	PB	2.05272	2.48577	5.10258		Ethane
1.832	BP	3.04470	1.66045	5.05557		Propane
2.682	BB	4.19670	1.20960	5.07632		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.185	BB	4.96111	9.83321e-1	4.87836		Pentane
4.500		-	-	-		Methylene chloride
5.776	VB	6.42812	8.01451e-1	5.15182		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

FHR Pine Bend LLC
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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	6.78847	7.24516e-1	4.91836		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 34.82389

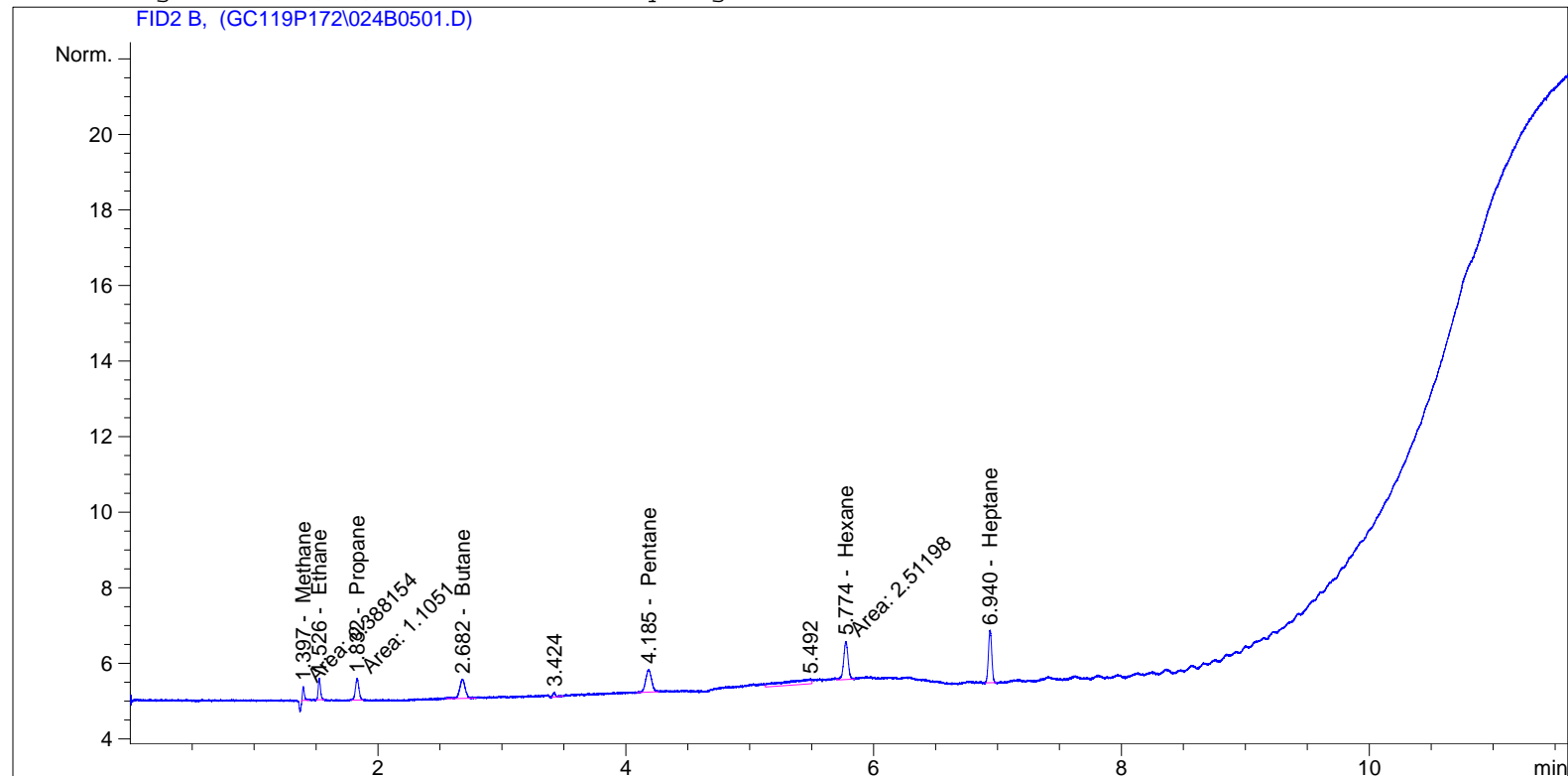
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    5
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 14:11:28      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:     : 1.0000
Dilution:       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397	MM	3.88154e-1	5.22582	2.02842		Methane
1.526	BP	7.05152e-1	2.78351	1.96280		Ethane
1.832	MM	1.10510	1.77040	1.95646		Propane
2.682	BB	1.62779	1.24067	2.01954		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.185	BV	1.95510	1.01737	1.98907		Pentane
4.500		-	-	-		Methylene chloride
5.774	MM	2.51198	8.08340e-1	2.03053		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	2.60049	7.66330e-1	1.99283		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 13.97966

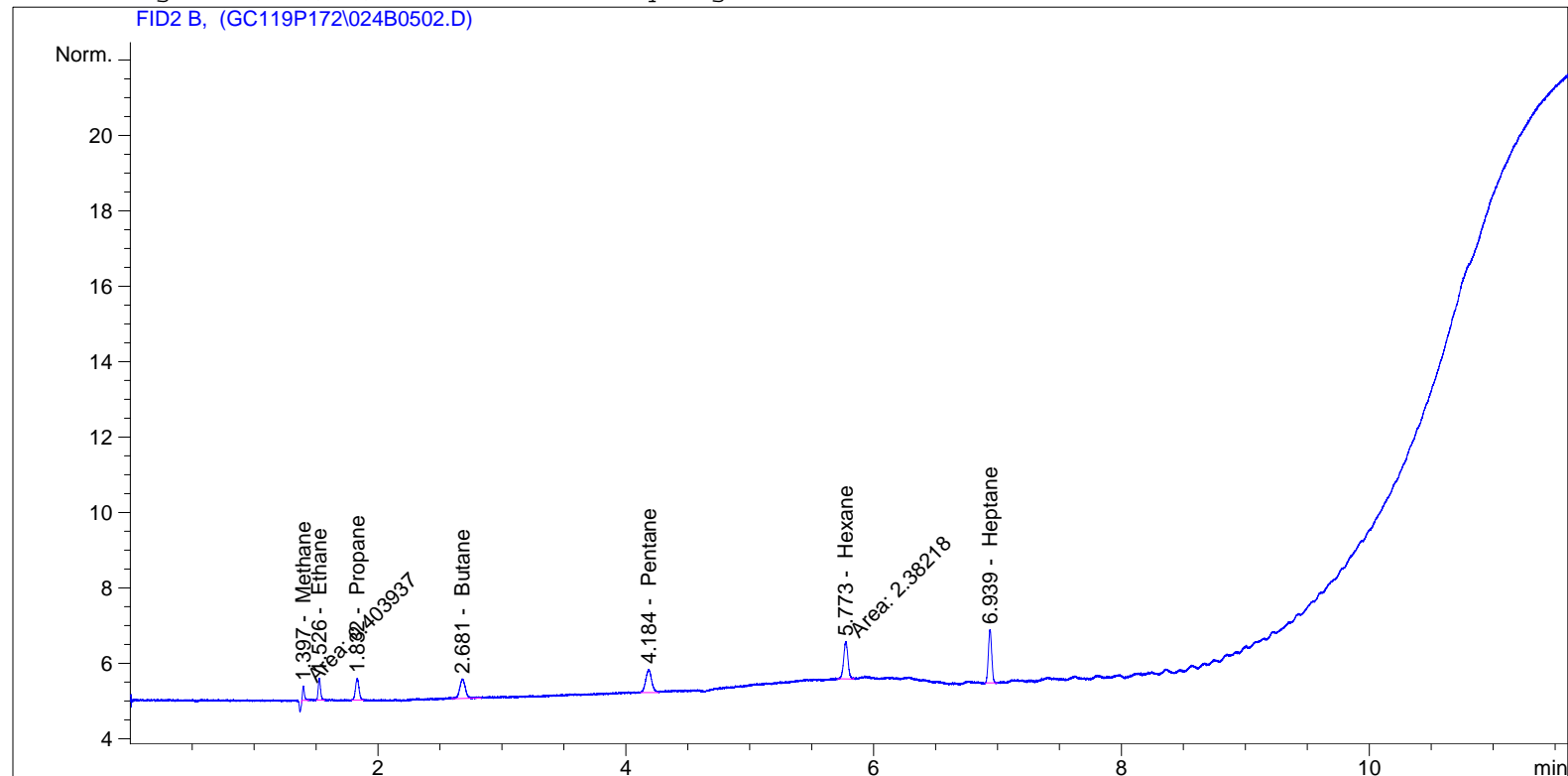
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    5
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 18-May-11, 14:30:47      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier          : 1.0000
Dilution            : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397	MM	4.03937e-1	5.18769	2.09550		Methane
1.526	BP	7.45411e-1	2.76698	2.06254		Ethane
1.832	PP	1.12962	1.77040	1.99988		Propane
2.681	VB	1.65971	1.23969	2.05753		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.184	BV	2.03826	1.01537	2.06959		Pentane
4.500		-	-	-		Methylene chloride
5.773	MM	2.38218	8.08515e-1	1.92603		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.939	BB	2.63577	7.65662e-1	2.01811		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 14.22917

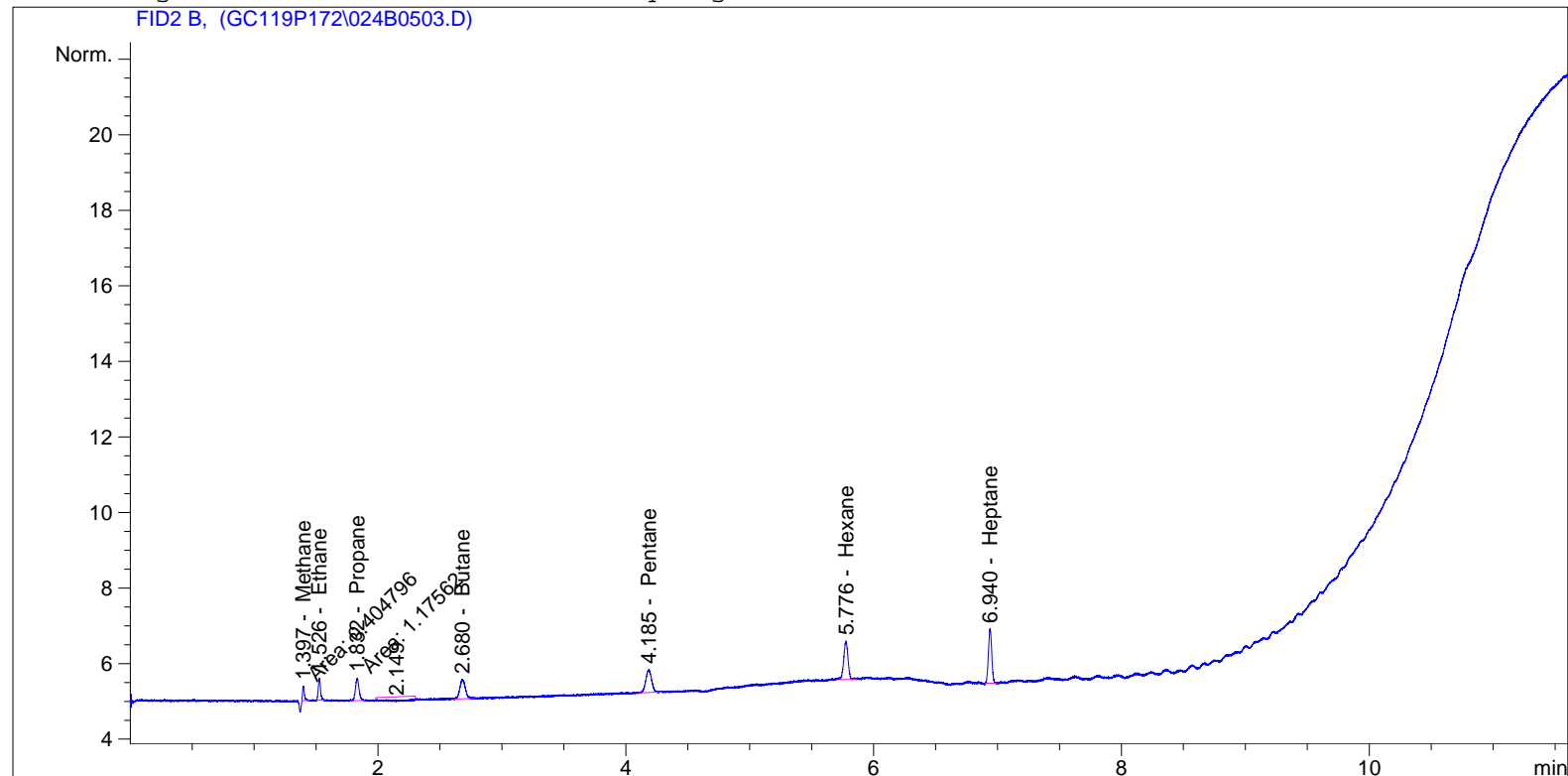
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    5
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 14:50:09      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397	MM	4.04796e-1	5.18570	2.09915		Methane
1.526	BP	7.14770e-1	2.78351	1.98957		Ethane
1.832	MM	1.17562	1.76357	2.07328		Propane
2.680	BB	1.60033	1.24118	1.98630		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.185	BB	1.95287	1.01737	1.98679		Pentane
4.500		-	-	-		Methylene chloride
5.776	BB	2.44291	8.08515e-1	1.97513		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	2.68259	7.64488e-1	2.05080		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 14.16104

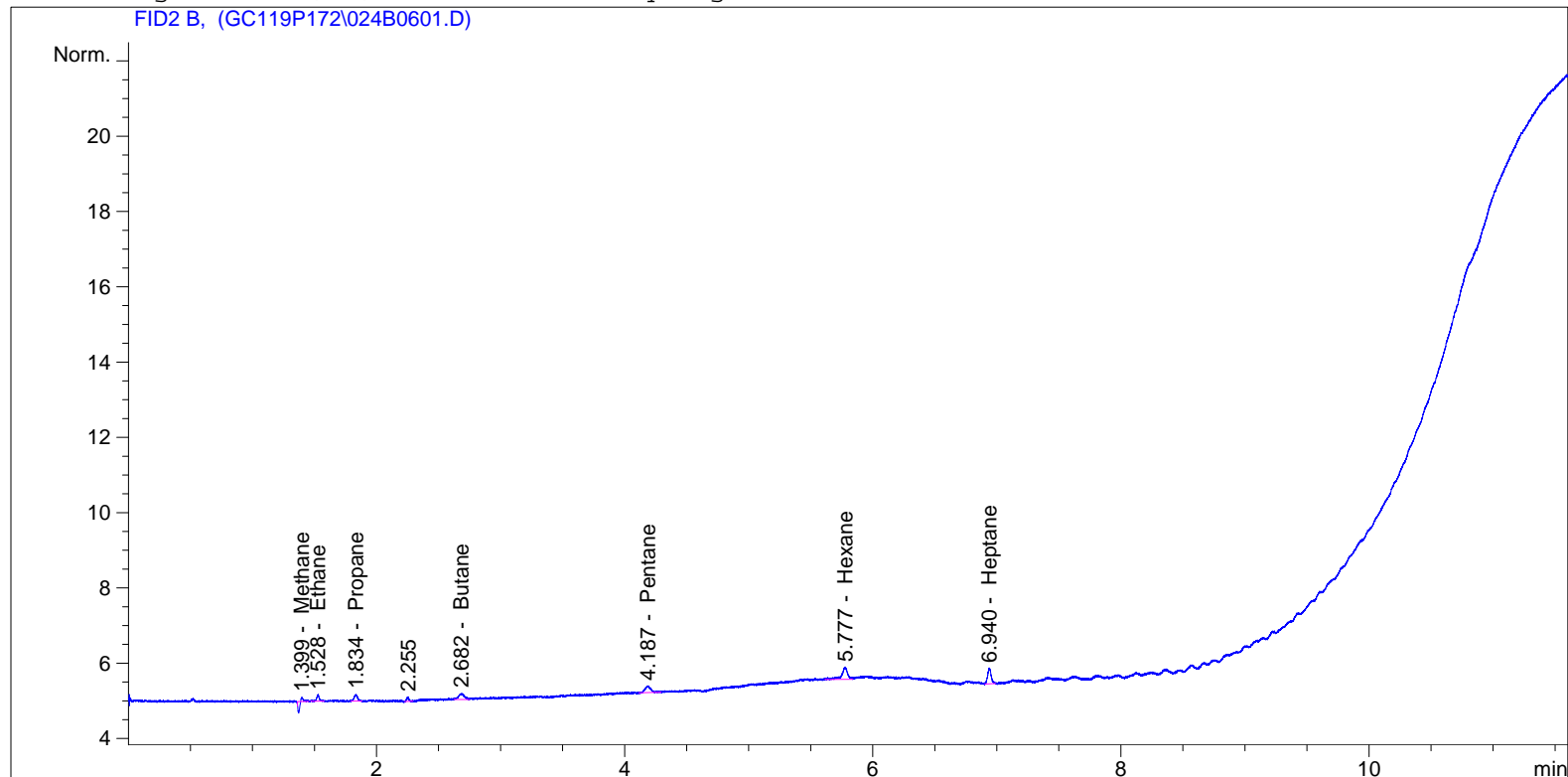
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 15:47:32      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BB	1.36222e-1	5.24293	7.14203e-1		Methane
1.528	BB	2.58490e-1	2.78351	7.19509e-1		Ethane
1.834	PP	3.25200e-1	1.77040	5.75735e-1		Propane
2.682	BV	5.17335e-1	1.24118	6.42108e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BB	5.54707e-1	1.01737	5.64344e-1		Pentane
4.500		-	-	-		Methylene chloride
5.777	BV	1.09008	8.08515e-1	8.81349e-1		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C0 ENV(1=3990,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	8.15188e-1	7.66330e-1	6.24704e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 4.72195

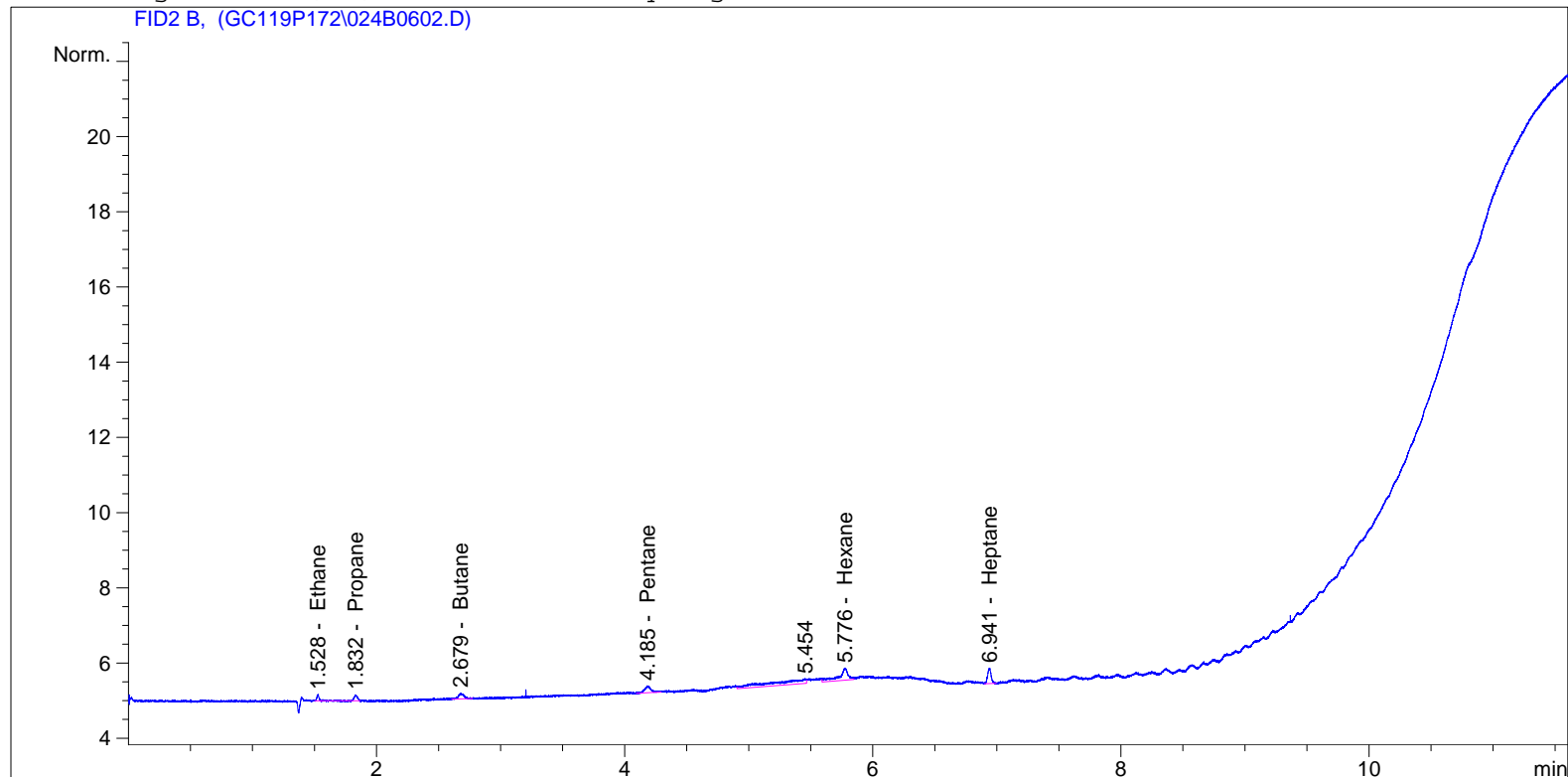
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 16:06:32      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.528	BP	1.91762e-1	2.78351	5.33771e-1		Ethane
1.832	VP	2.23405e-1	1.77040	3.95517e-1		Propane
2.679	BB	4.53250e-1	1.24118	5.62567e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.185	BB	5.93672e-1	1.01737	6.03987e-1		Pentane
4.500		-	-	-		Methylene chloride
5.776	VV	1.65902	8.08515e-1	1.34134		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

FHR Pine Bend LLC
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Sample Name: gc119p172 #C0 ENV(1=3990,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.941	BB	7.94192e-1	7.66330e-1	6.08613e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 4.04580

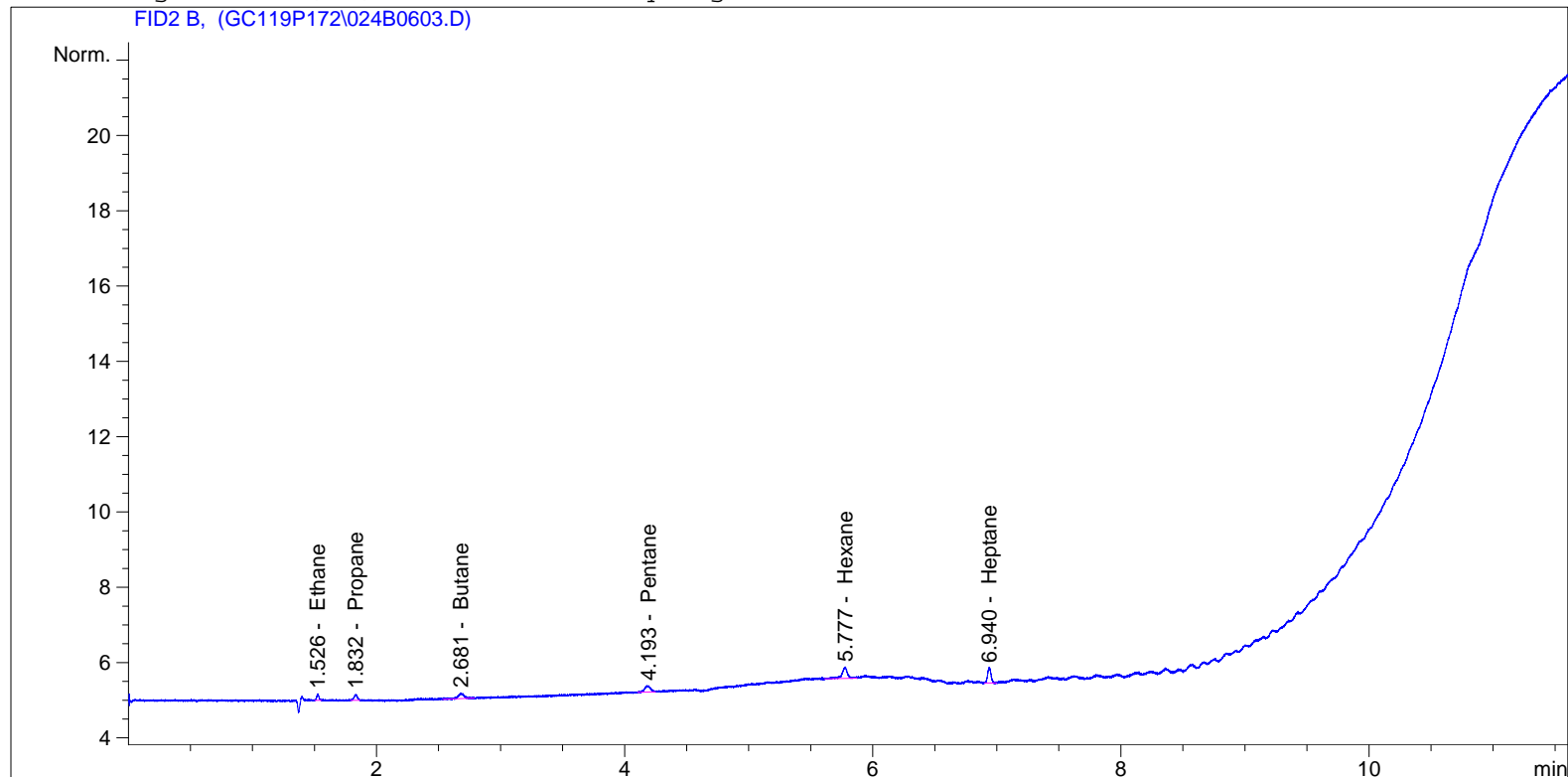
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 16:25:33      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.526	BP	1.92456e-1	2.78351	5.35703e-1		Ethane
1.832	PP	2.79119e-1	1.77040	4.94152e-1		Propane
2.681	VB	4.77403e-1	1.24118	5.92546e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.193	BV	5.50427e-1	1.01737	5.59990e-1		Pentane
4.500		-	-	-		Methylene chloride
5.777	BB	9.29981e-1	8.08515e-1	7.51903e-1		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

FHR Pine Bend LLC
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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	7.75485e-1	7.66330e-1	5.94278e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 3.52857

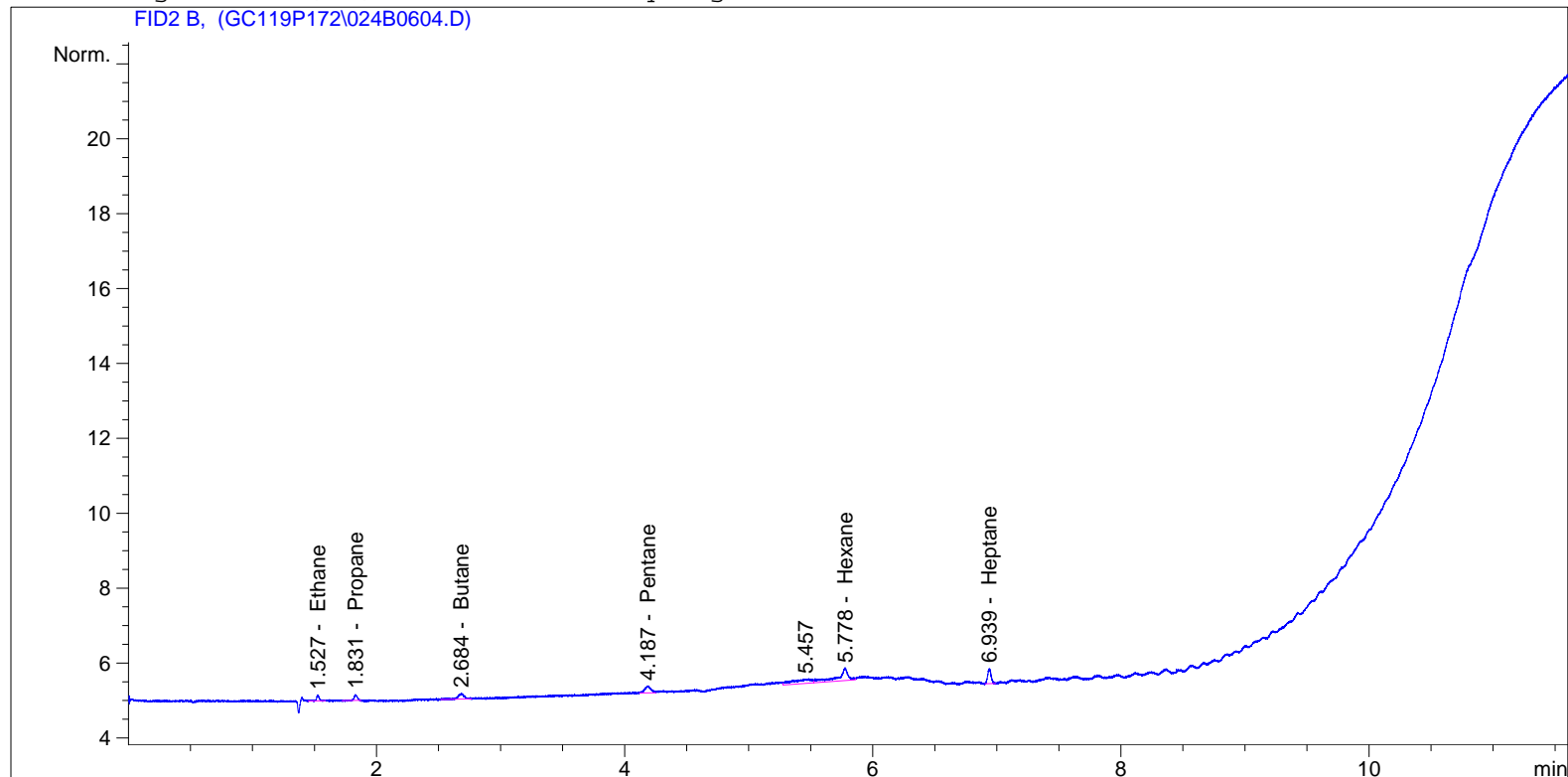
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 16:44:39      Inj       :    4
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.527	VB	2.38749e-1	2.78351	6.64560e-1		Ethane
1.831	VP	2.24907e-1	1.77040	3.98176e-1		Propane
2.684	BB	4.78365e-1	1.24118	5.93739e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BV	6.25699e-1	1.01737	6.36570e-1		Pentane
4.500		-	-	-		Methylene chloride
5.778	VV	1.92497	8.08515e-1	1.55637		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

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Sample Name: gc119p172 #C0 ENV(1=3990,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.939	BB	7.51977e-1	7.66330e-1	5.76262e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 4.42567

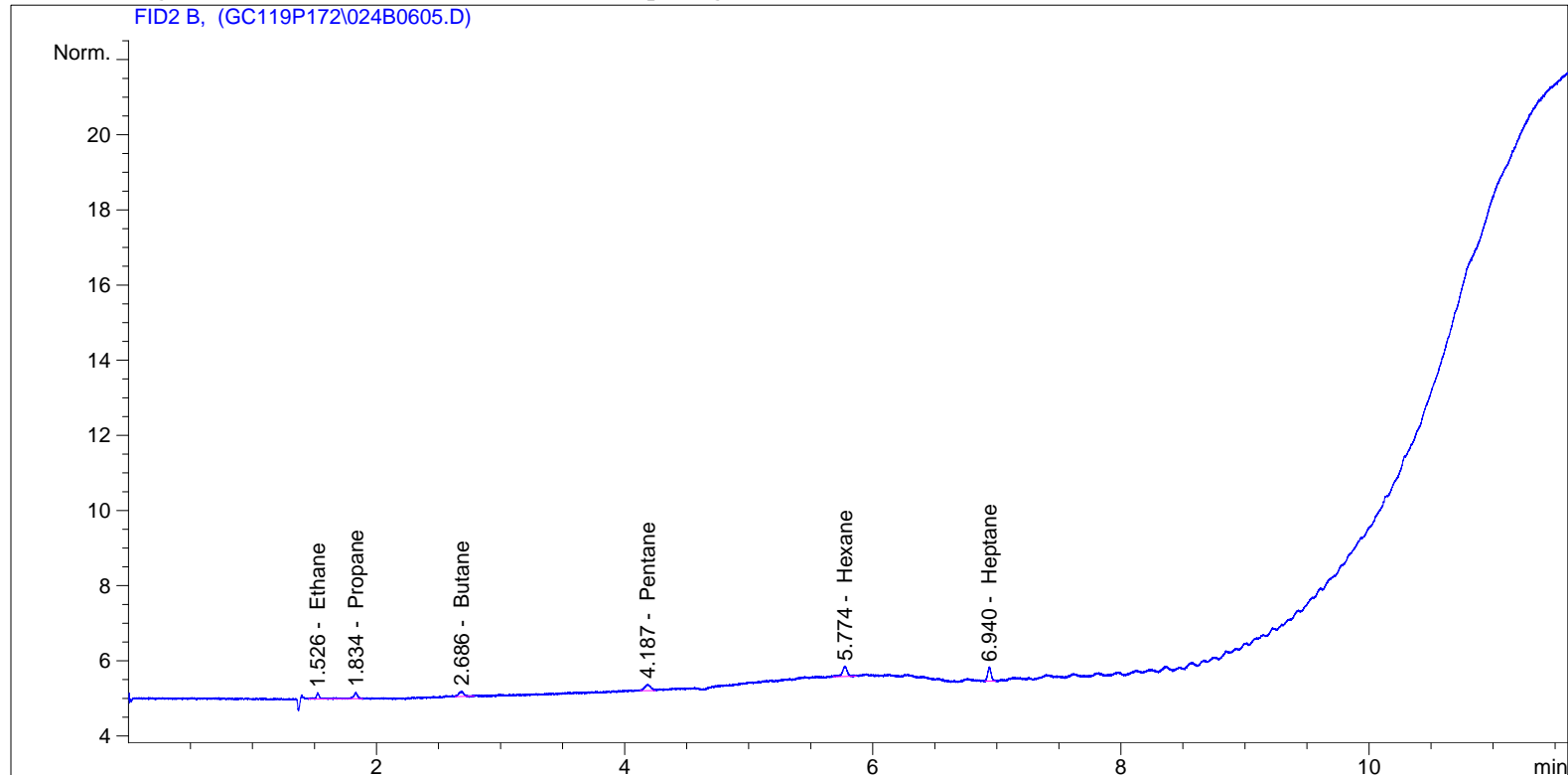
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 17:03:44      Inj       :    5
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.526	BV	2.81359e-1	2.78351	7.83165e-1		Ethane
1.834	VV	4.47213e-1	1.77040	7.91747e-1		Propane
2.686	BB	3.50328e-1	1.24118	4.34822e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BV	5.44227e-1	1.01737	5.53682e-1		Pentane
4.500		-	-	-		Methylene chloride
5.774	BB	7.69487e-1	8.08515e-1	6.22142e-1		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C0 ENV(1=3990,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	7.08411e-1	7.66330e-1	5.42877e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 3.72843

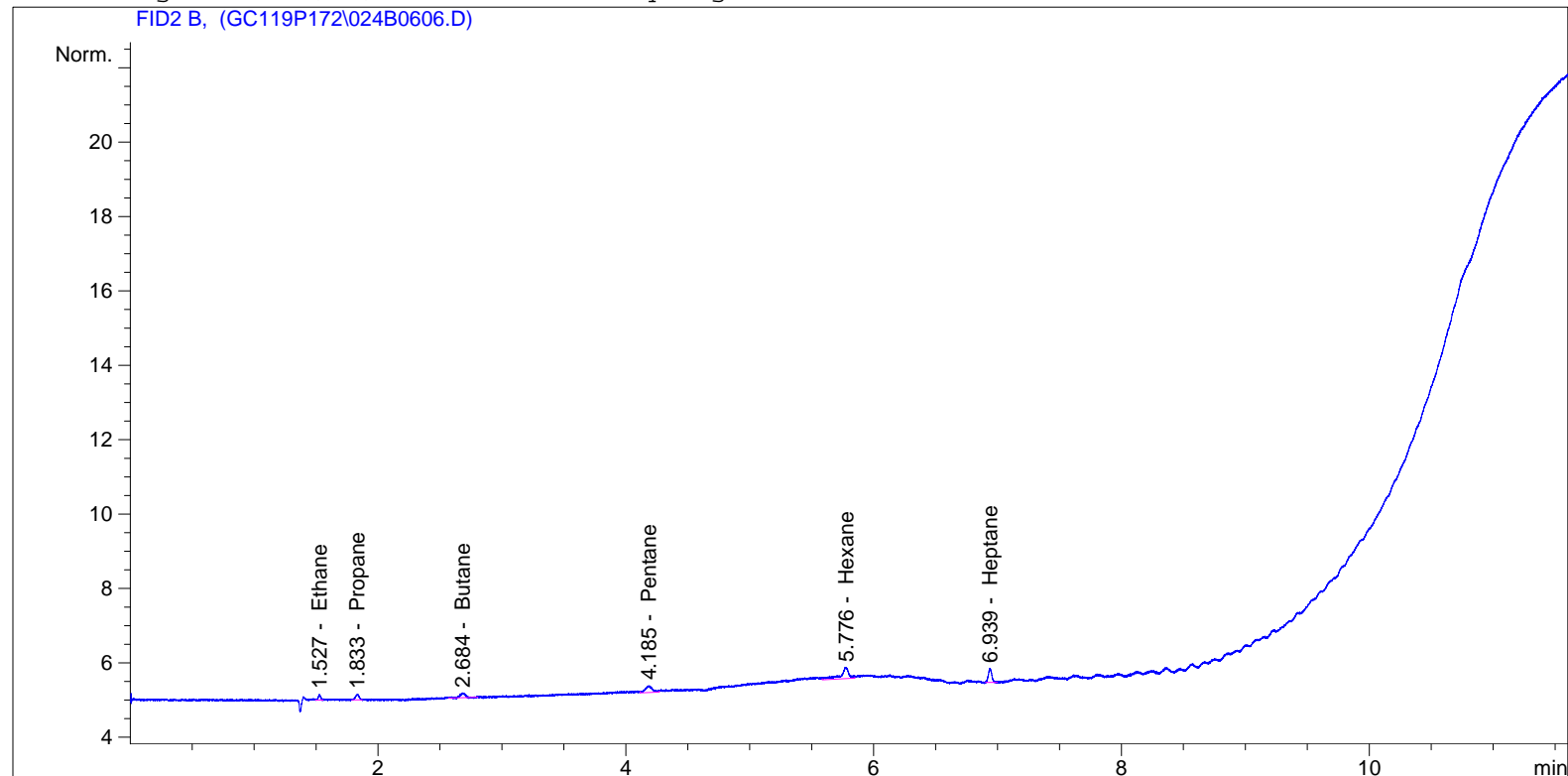
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 17:22:46      Inj       :    6
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.527	VP	1.97841e-1	2.78351	5.50691e-1		Ethane
1.833	BP	2.96831e-1	1.77040	5.25510e-1		Propane
2.684	BB	3.29314e-1	1.24118	4.08739e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.185	BB	7.26967e-1	1.01737	7.39597e-1		Pentane
4.500		-	-	-		Methylene chloride
5.776	VV	1.41908	8.08515e-1	1.14734		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.939	BB	6.98277e-1	7.66330e-1	5.35111e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 3.90699

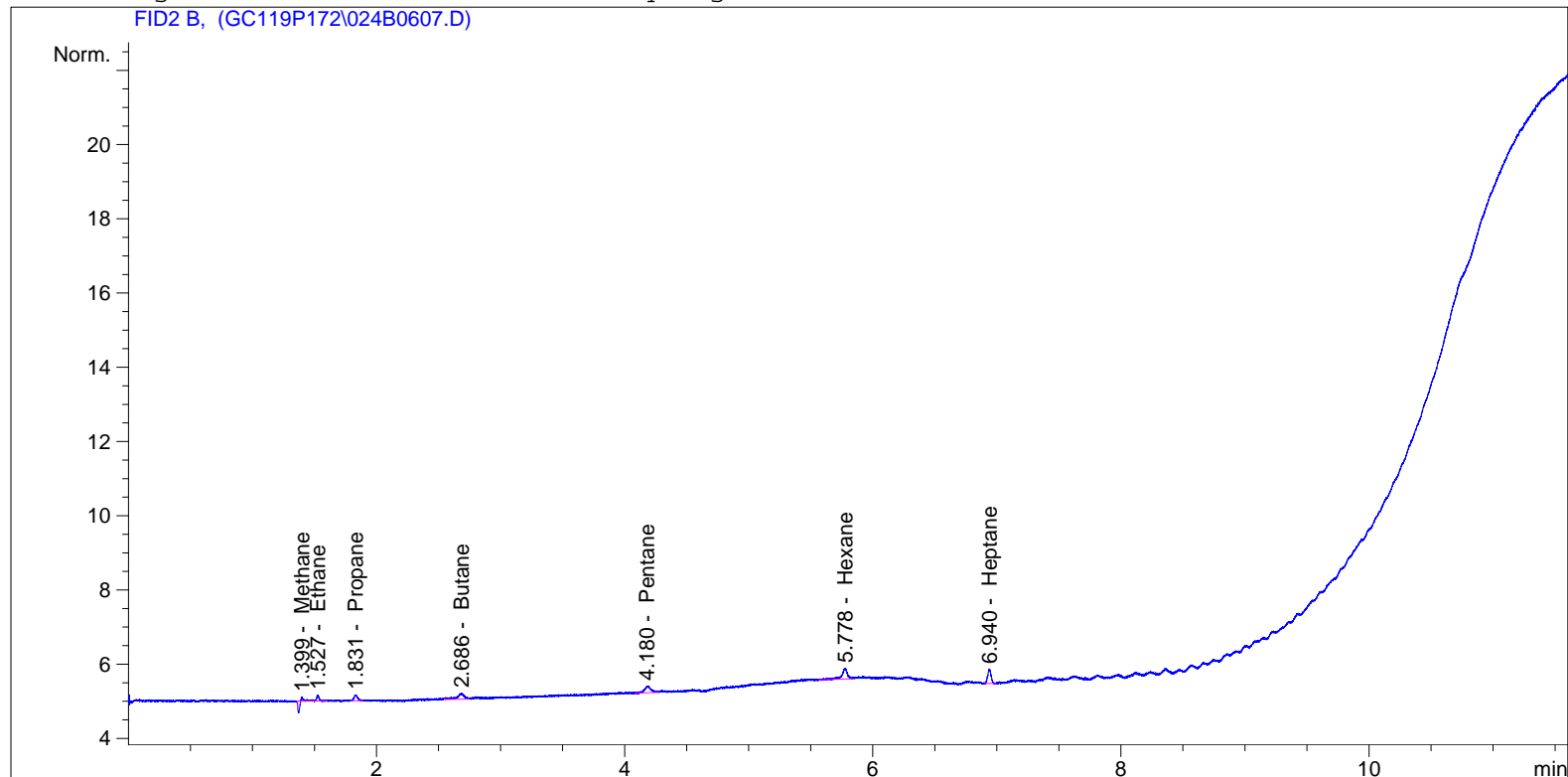
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 17:41:51      Inj       :    7
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV	1.85641e-1	5.24293	9.73304e-1		Methane
1.527	VB	2.78179e-1	2.78351	7.74314e-1		Ethane
1.831	BP	3.23109e-1	1.77040	5.72033e-1		Propane
2.686	BV	6.15690e-1	1.24118	7.64185e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.180	BV	6.29697e-1	1.01737	6.40637e-1		Pentane
4.500		-	-	-		Methylene chloride
5.778	BV	8.75458e-1	8.08515e-1	7.07821e-1		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

FHR Pine Bend LLC
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Sample Name: gc119p172 #C0 ENV(1=3990,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.940	BB	7.21279e-1	7.66330e-1	5.52738e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 4.98503

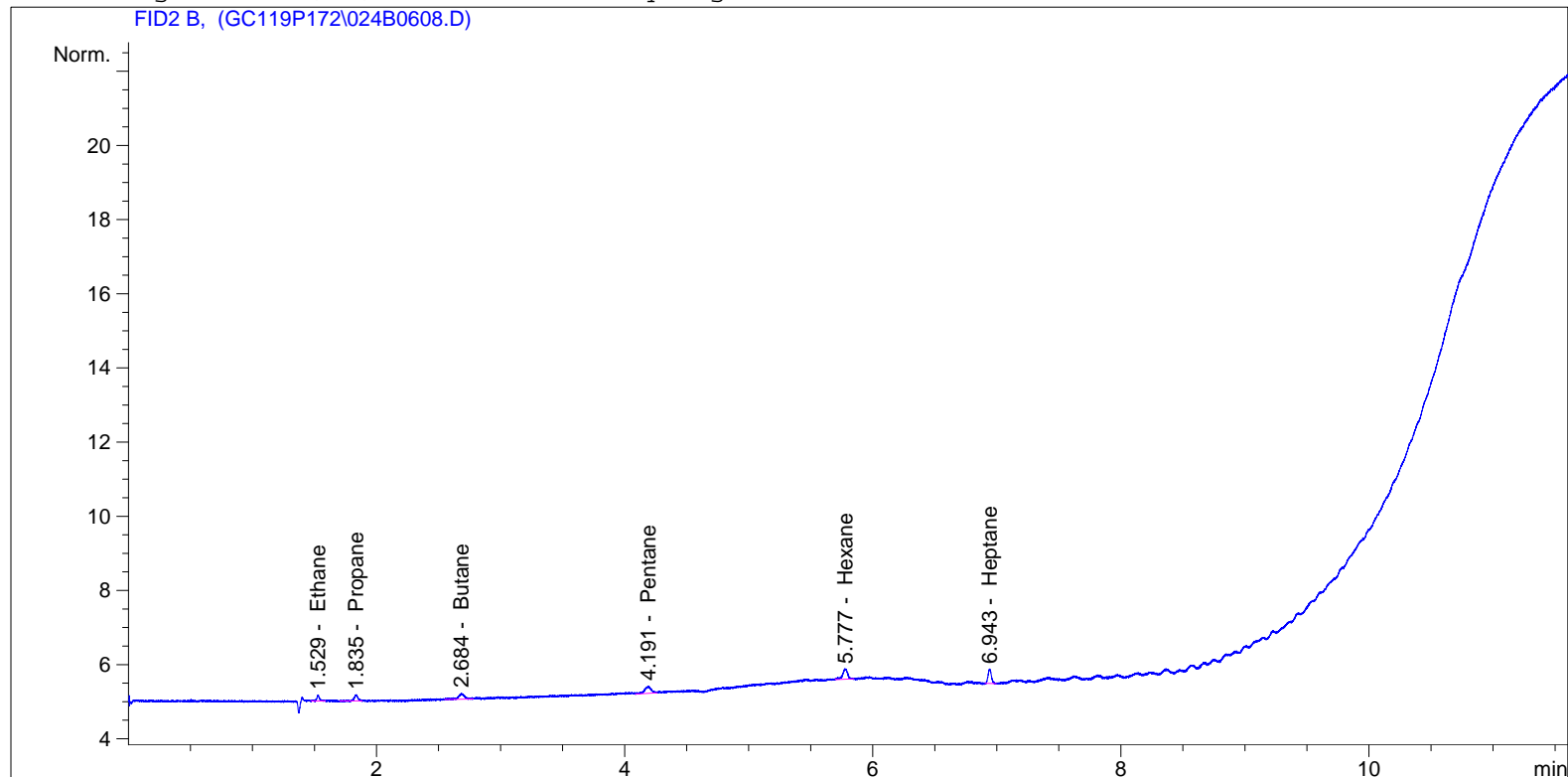
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    6
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 18-May-11, 18:00:59      Inj       :    8
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.529	BB	2.42761e-1	2.78351	6.75728e-1		Ethane
1.835	BP	3.16519e-1	1.77040	5.60365e-1		Propane
2.684	BB	5.36545e-1	1.24118	6.65951e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.191	VV	6.89255e-1	1.01737	7.01229e-1		Pentane
4.500		-	-	-		Methylene chloride
5.777	BB	7.81150e-1	8.08515e-1	6.31571e-1		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C0 ENV(1=3990,2=20)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.943	BB	7.01983e-1	7.66330e-1	5.37951e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 3.77280

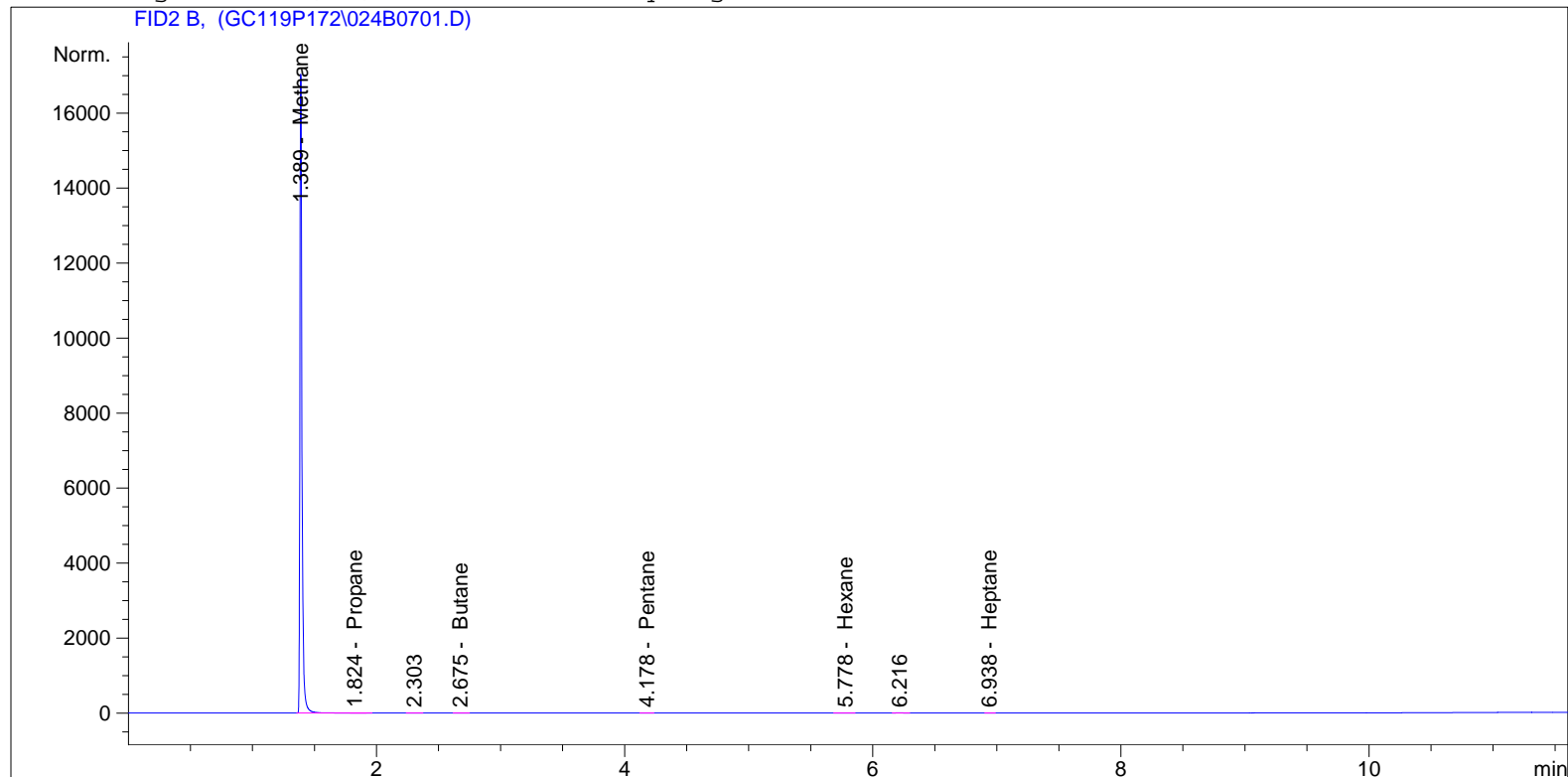
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : tbo                      Seq. Line :    7
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 09:38:15      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.389	VB S	1.96370e4	4.25007	8.34588e4		Methane
1.527		-	-	-		Ethane
1.824	BB T	8.17721e-1	1.77040	1.44769		Propane
2.675	BV	8.66328e-1	1.24118	1.07527		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.178	BV	4.02803e-1	1.01737	4.09801e-1		Pentane
4.500		-	-	-		Methylene chloride
5.778	BB	5.01734e-1	8.08515e-1	4.05660e-1		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.938	BB	6.59947e-1	7.66330e-1	5.05737e-1		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 8.34627e4

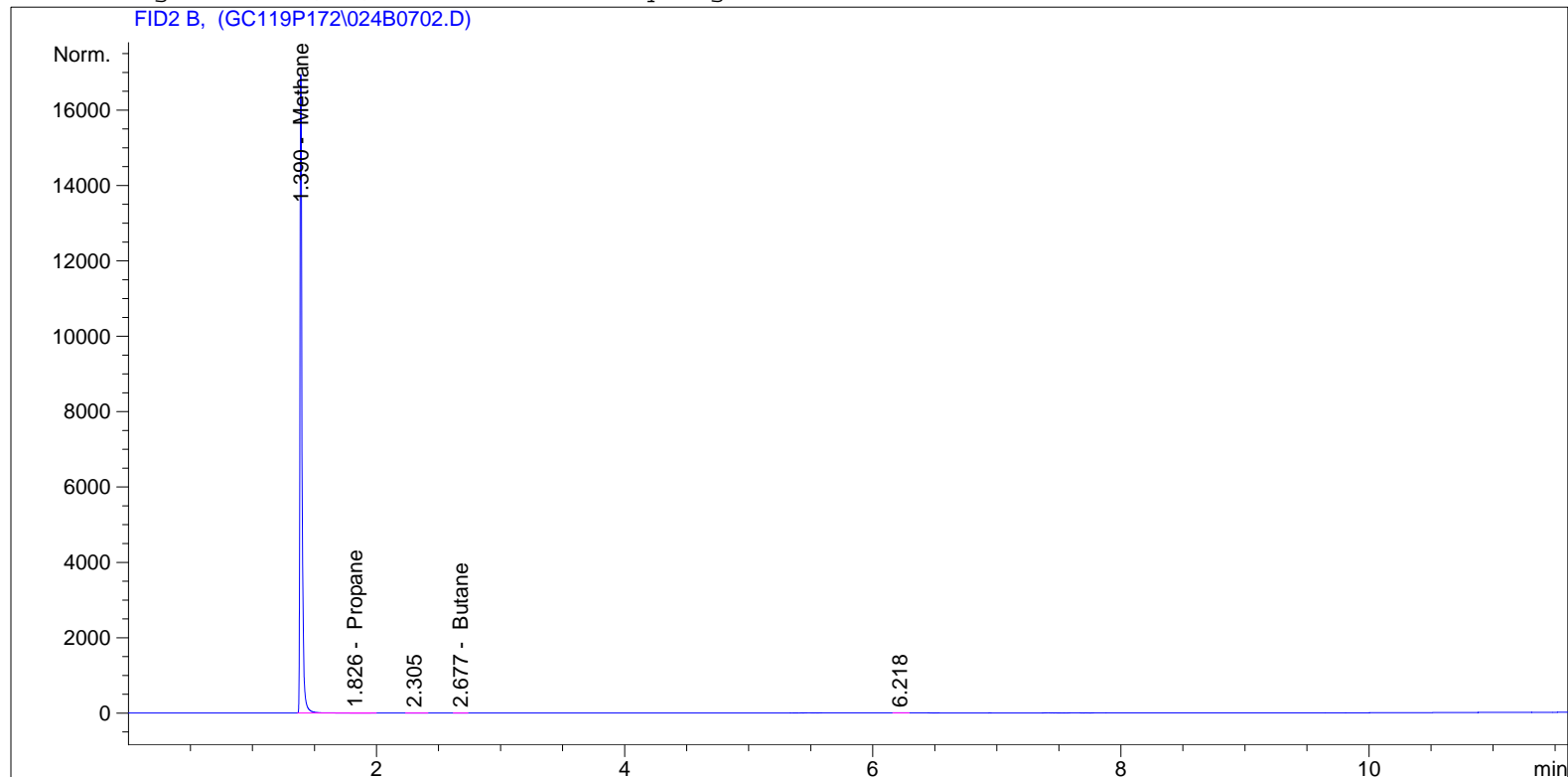
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :    7
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 09:57:23      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.390	BB S	1.95464e4	4.25007	8.30737e4		Methane
1.527		-	-	-		Ethane
1.826	BB T	4.80487e-1	1.77040	8.50655e-1		Propane
2.677	BV	8.43400e-1	1.24118	1.04681		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc114p102 #C11 ENV(1=0,3=377)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 8.30756e4

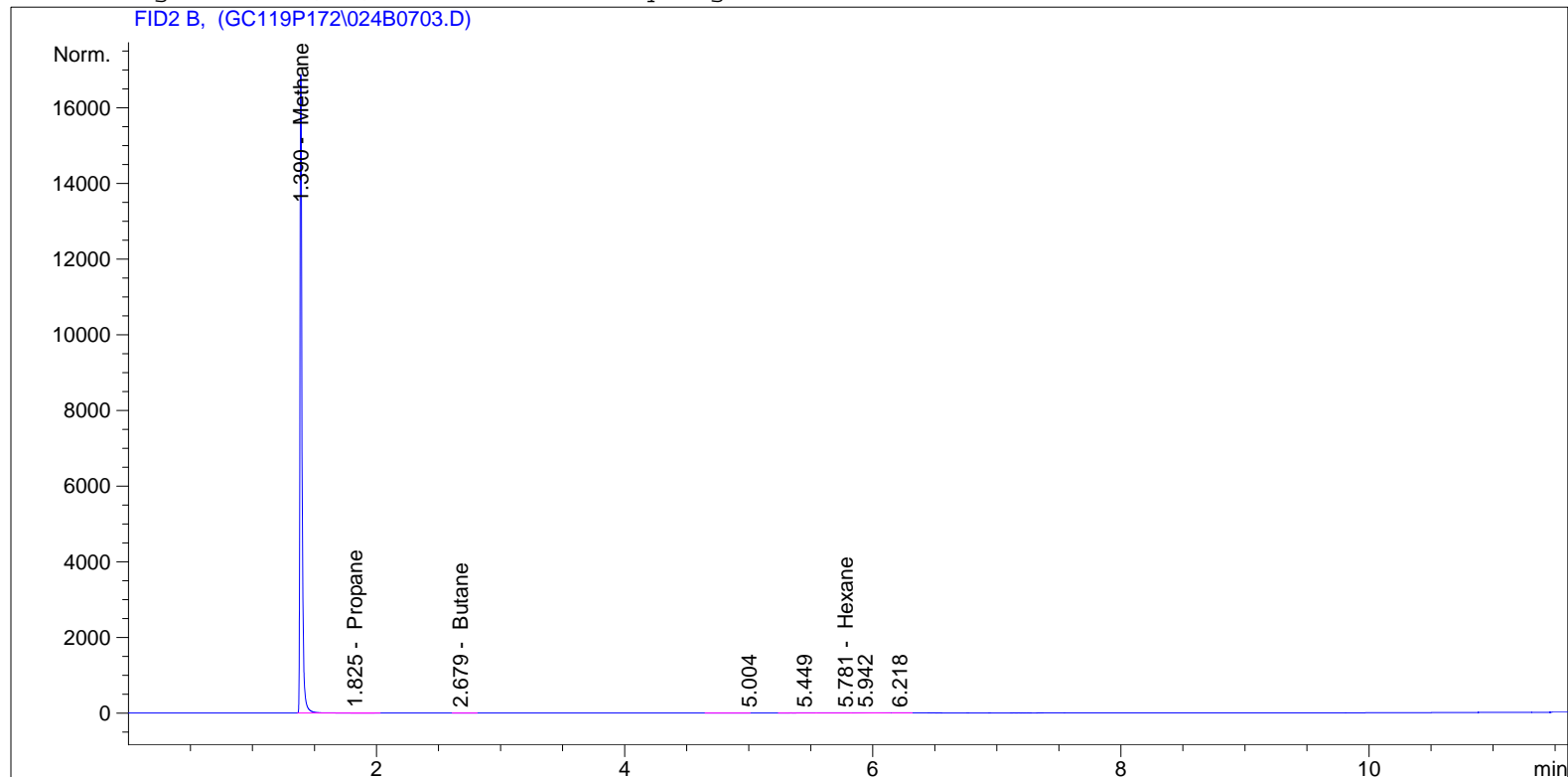
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :    7
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 10:16:39      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.390	BB S	1.94575e4	4.25007	8.26958e4		Methane
1.527		-	-	-		Ethane
1.825	BB T	3.04371e-1	1.77040	5.38858e-1		Propane
2.679	BB	6.40571e-1	1.24118	7.95067e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.781	VV	2.24667	8.08515e-1	1.81647		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc114p102 #C11 ENV(1=0,3=377)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 8.26990e4

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

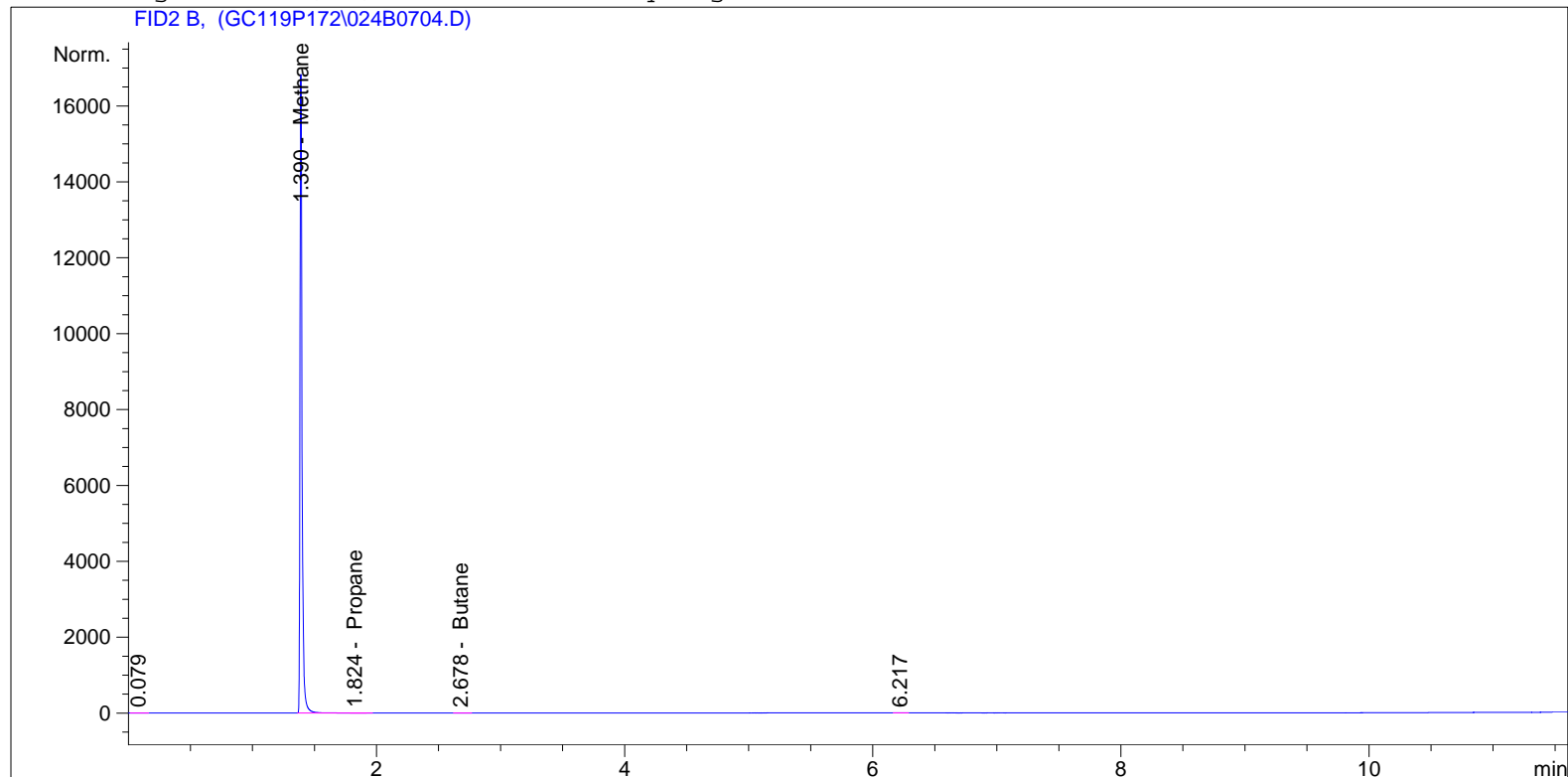
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*** End of Report ***

```

=====
Acq. Operator   : tbo                      Seq. Line :    7
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 10:35:57      Inj       :    4
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.390	BB S	1.93947e4	4.25007	8.24290e4		Methane
1.527		-	-	-		Ethane
1.824	BB T	5.47751e-1	1.77040	9.69738e-1		Propane
2.678	BB	5.49167e-1	1.24118	6.81617e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 8.24307e4

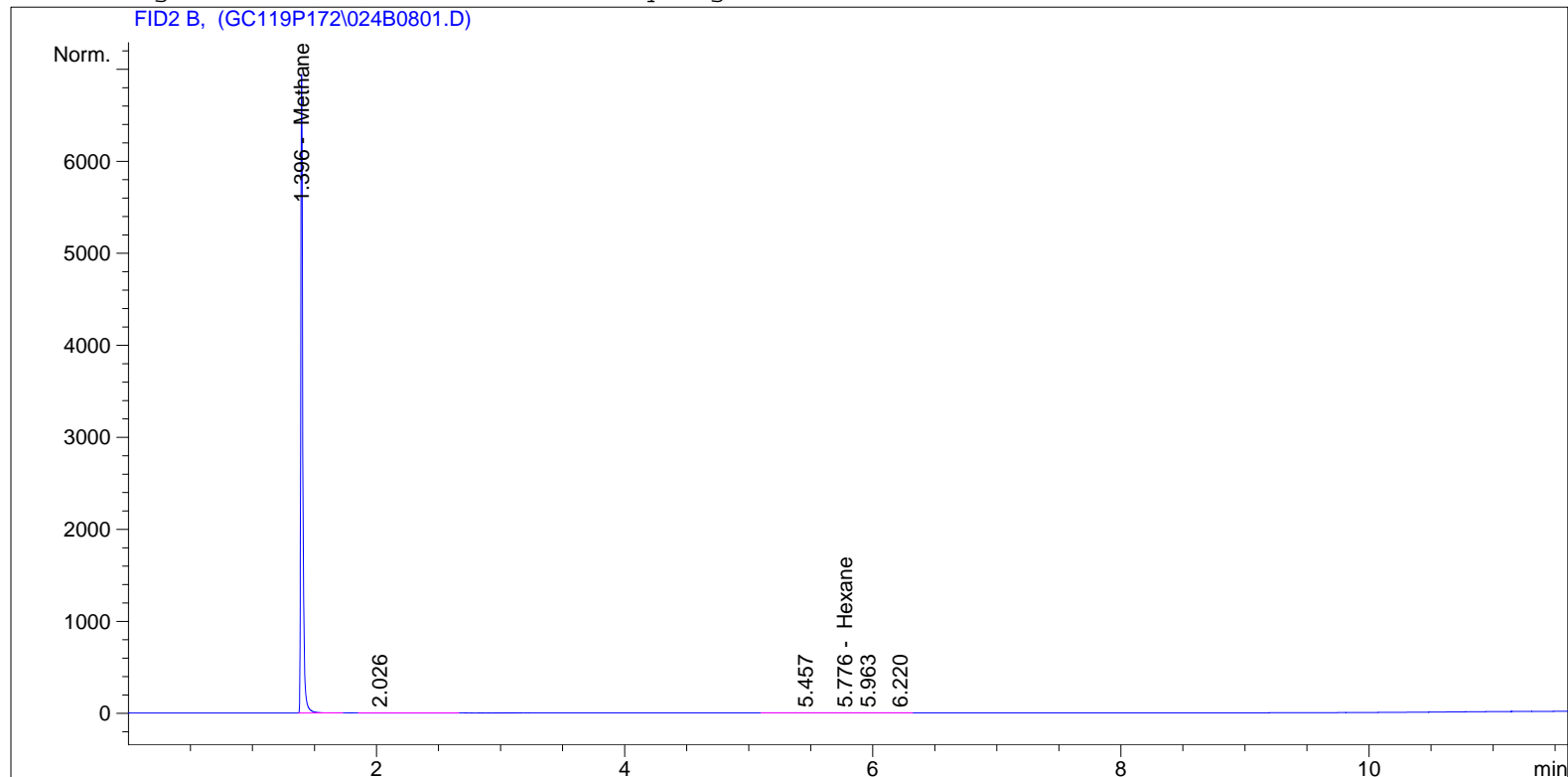
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : tbo                      Seq. Line :    8
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 10:55:19      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.396	BB S	7892.46631	4.25010	3.35438e4		Methane
1.527		-	-	-		Ethane
1.833		-	-	-		Propane
2.683		-	-	-		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.776	VV	2.92272	8.06751e-1	2.35790		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc114p102 #C10 ENV(1=500,3=318.69)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 3.35462e4

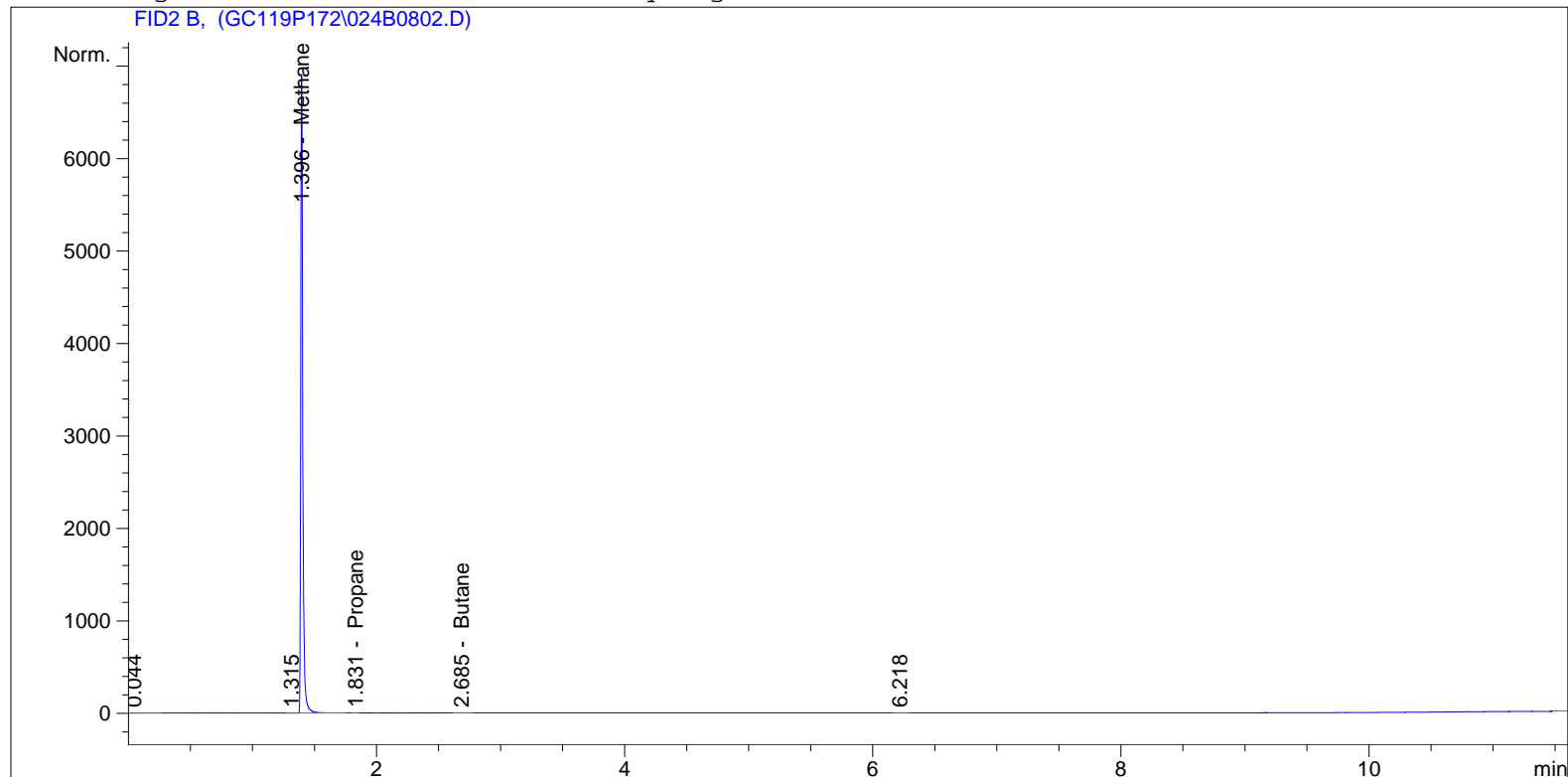
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :    8
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 11:15:09      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



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=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.396	VB S	7868.42627	4.25010	3.34416e4		Methane
1.527		-	-	-		Ethane
1.831	BP	1.75737e-1	1.77040	3.11125e-1		Propane
2.685	BV	4.77324e-1	1.24118	5.92447e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

FHR Pine Bend LLC
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RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 3.34425e4

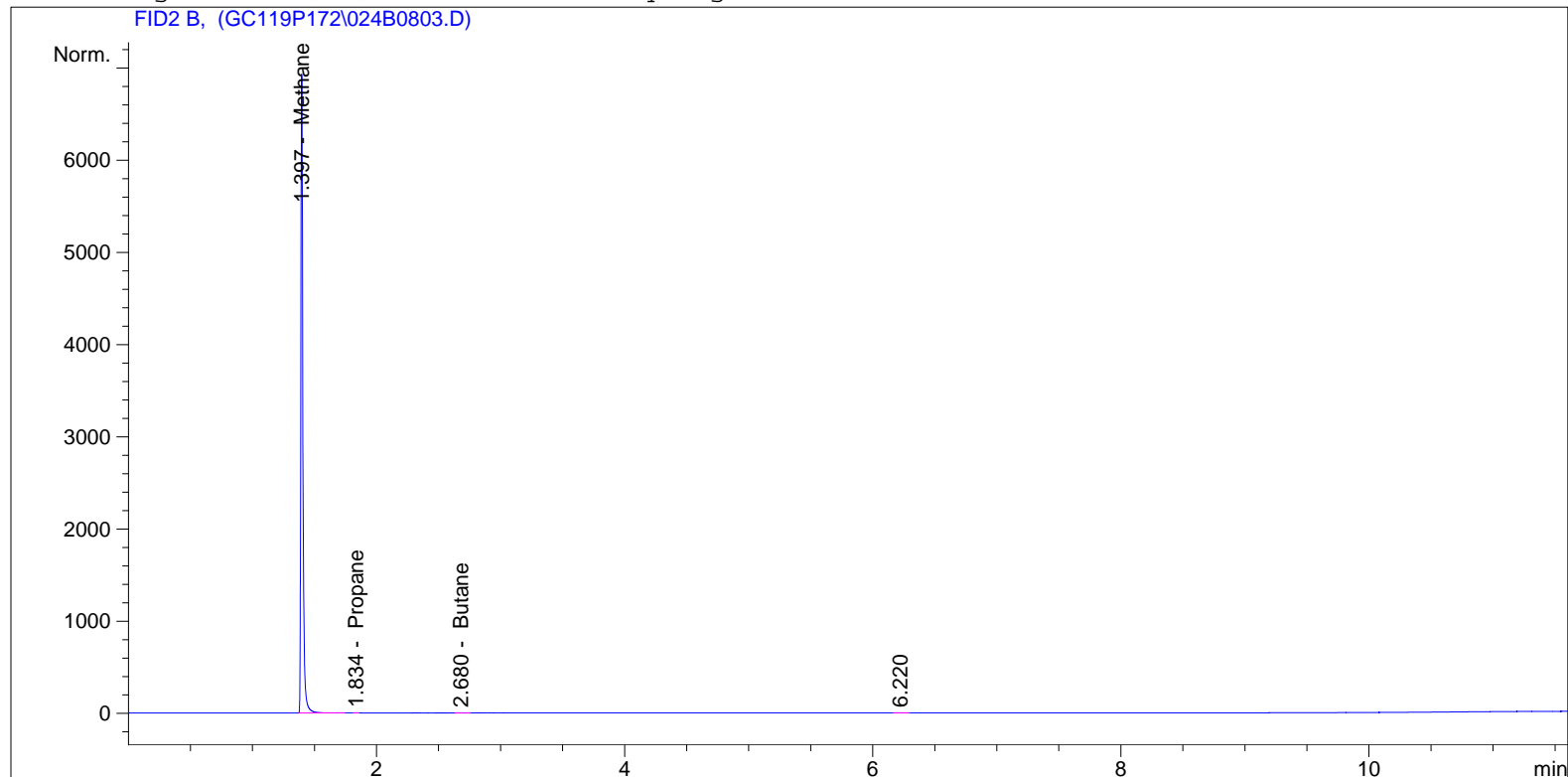
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :    8
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 11:36:02      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397	BB S	7900.53076	4.25010	3.35781e4		Methane
1.527		-	-	-		Ethane
1.834	PP	2.00036e-1	1.77040	3.54144e-1		Propane
2.680	BV	4.10894e-1	1.24118	5.09996e-1		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc114p102 #C10 ENV(1=500,3=318.69)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 3.35789e4

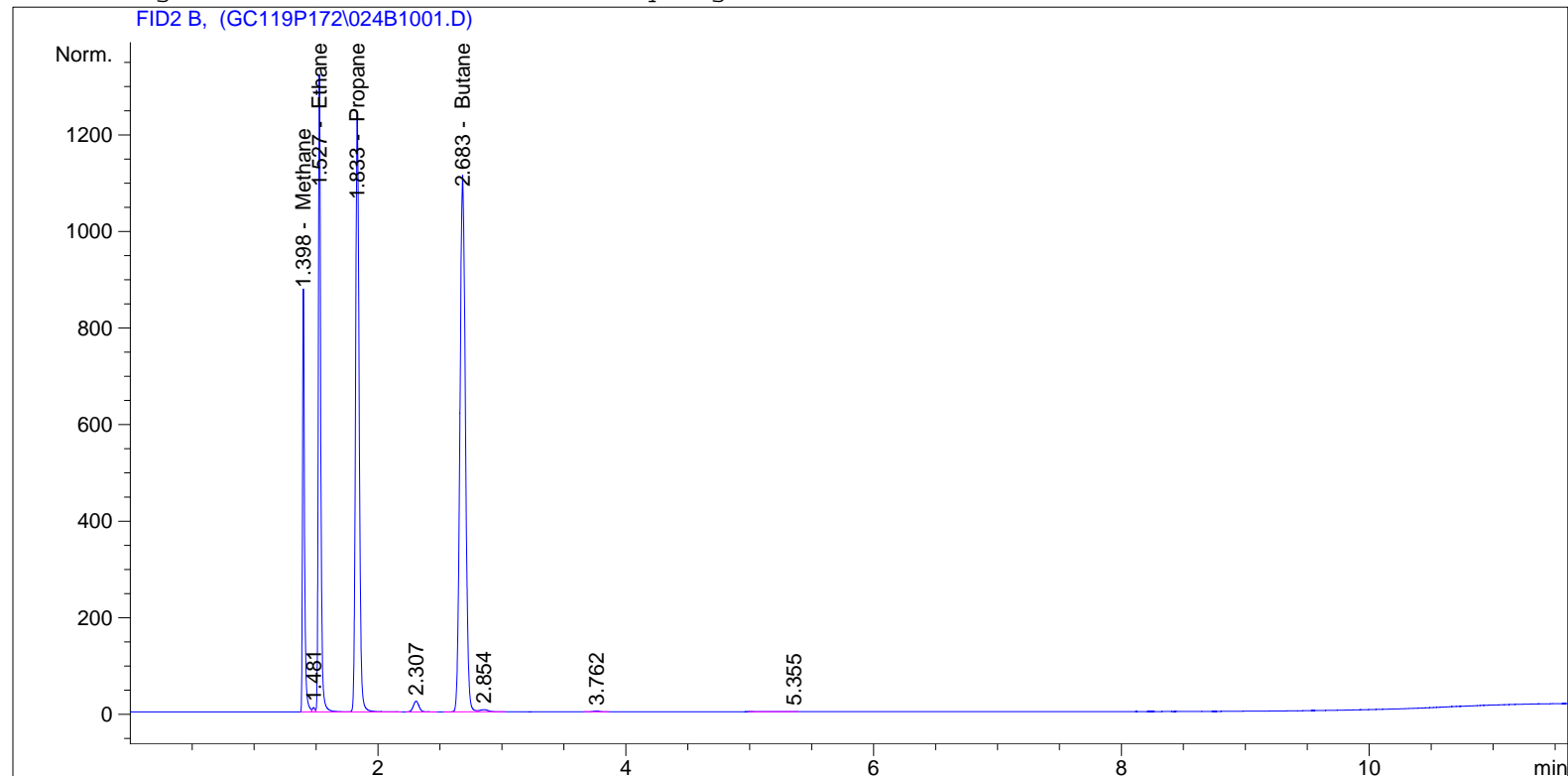
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   10
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 16:29:34      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.398	BV	987.90875	4.25044	4199.04517		Methane
1.527	VV	1788.95032	2.32560	4160.39043		Ethane
1.833	VB	2524.58008	1.59566	4028.37415		Propane
2.683	BV	3425.31079	1.18993	4075.89659		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 1.64637e4

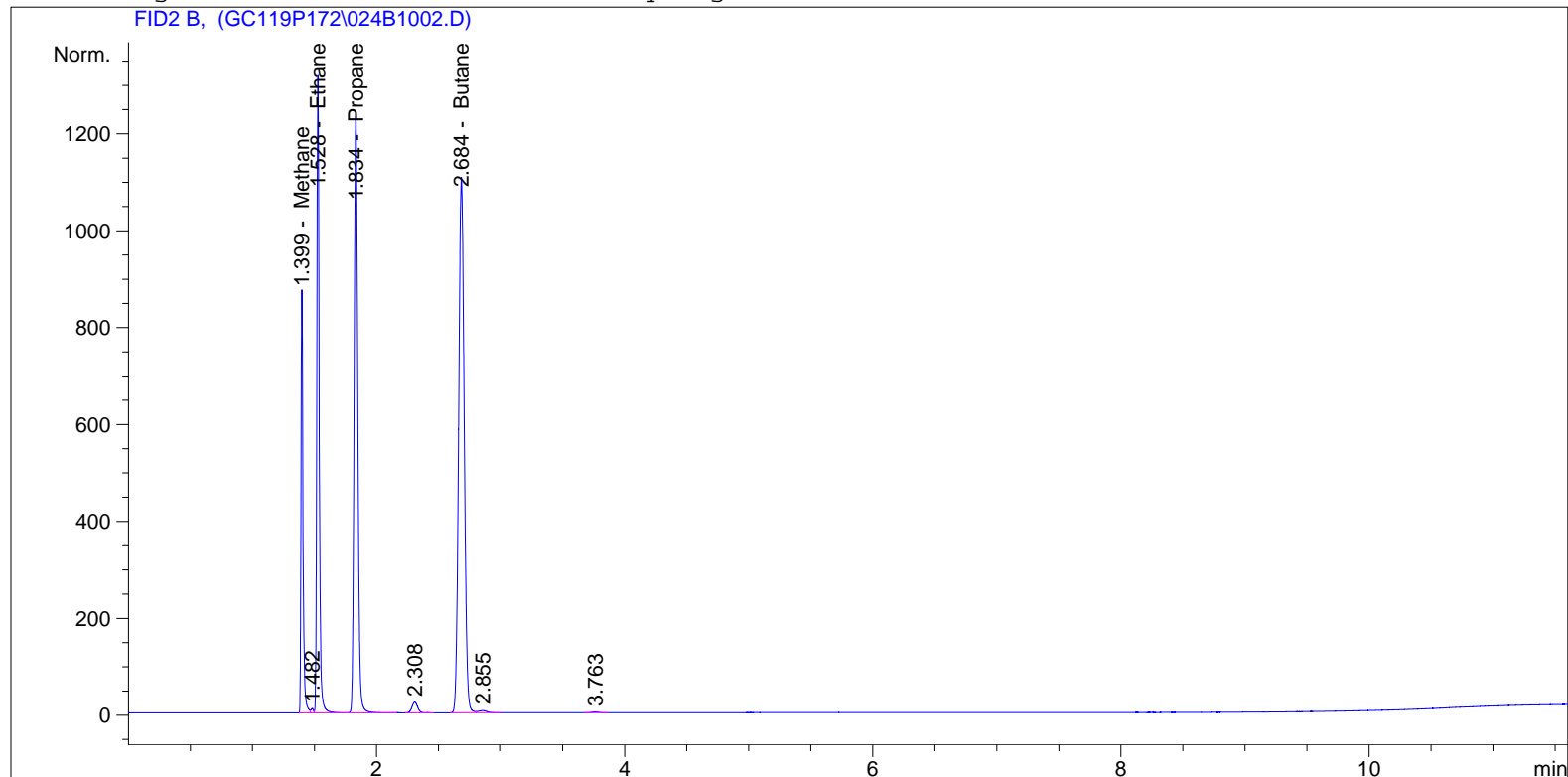
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : tbo                      Seq. Line :   10
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 16:48:52      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV	984.84955	4.25044	4186.04338		Methane
1.528	VV	1782.99243	2.32560	4146.53584		Ethane
1.834	VB	2514.83960	1.59566	4012.83241		Propane
2.684	BV	3413.45923	1.18993	4061.79429		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 1.64072e4

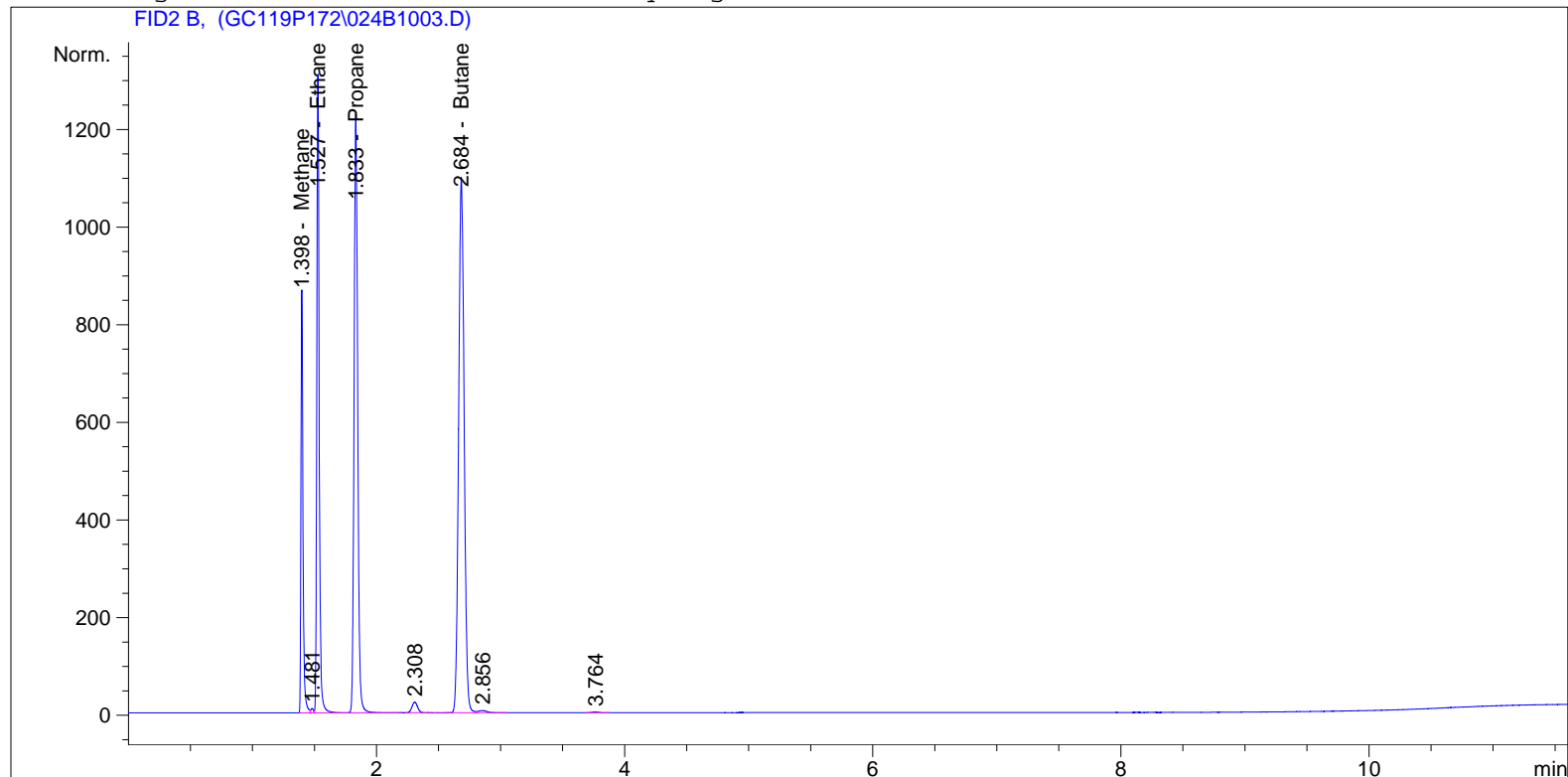
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

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=====
Acq. Operator   : tbo                      Seq. Line :   10
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 17:08:04      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.398	BV	976.67841	4.25044	4151.31558		Methane
1.527	VV	1768.56018	2.32561	4112.97480		Ethane
1.833	VB	2494.64307	1.59566	3980.60717		Propane
2.684	VV	3384.70020	1.18994	4027.57361		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 1.62725e4

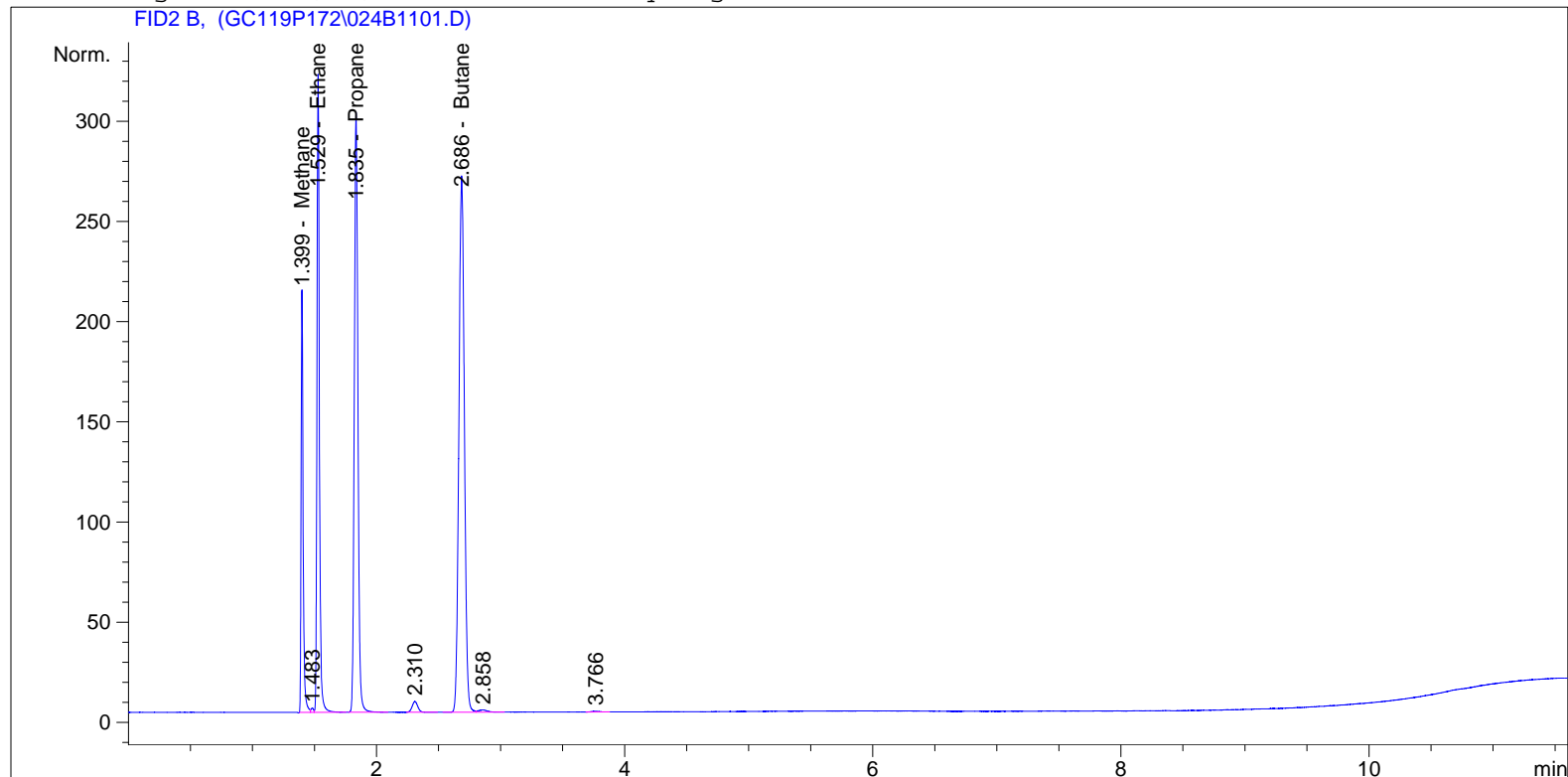
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   11
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 17:27:10      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV	238.03296	4.25165	1012.03189		Methane
1.529	VB	431.22543	2.32618	1003.10950		Ethane
1.835	BB	607.94836	1.59591	970.22947		Propane
2.686	BV	825.76697	1.19001	982.67157		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 3968.04243

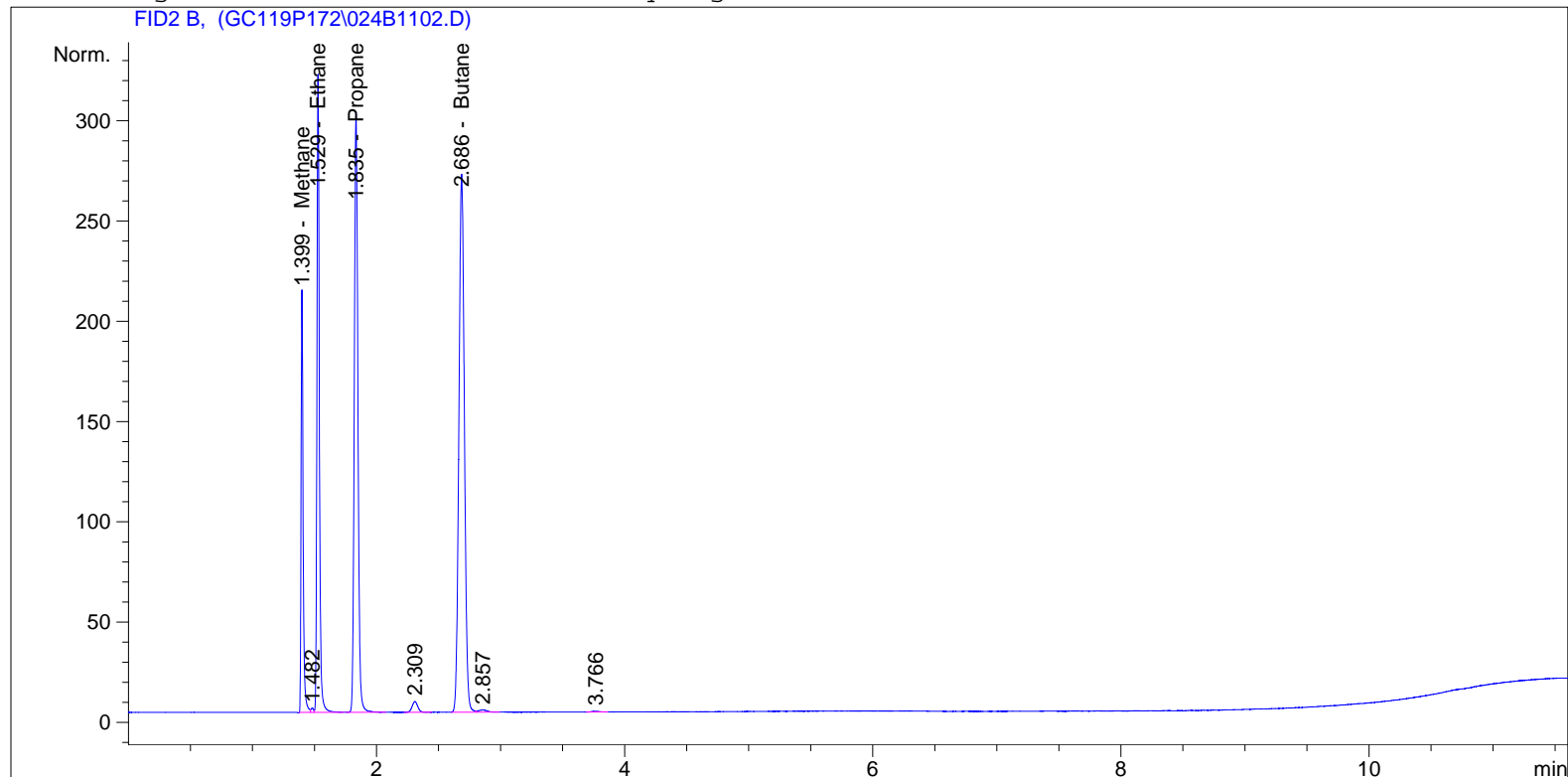
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   11
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 17:46:20      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV	238.04259	4.25165	1012.07281		Methane
1.529	VB	431.10846	2.32618	1002.83749		Ethane
1.835	PB	607.76740	1.59591	969.94072		Propane
2.686	BV	825.29401	1.19001	982.10879		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 3966.95980

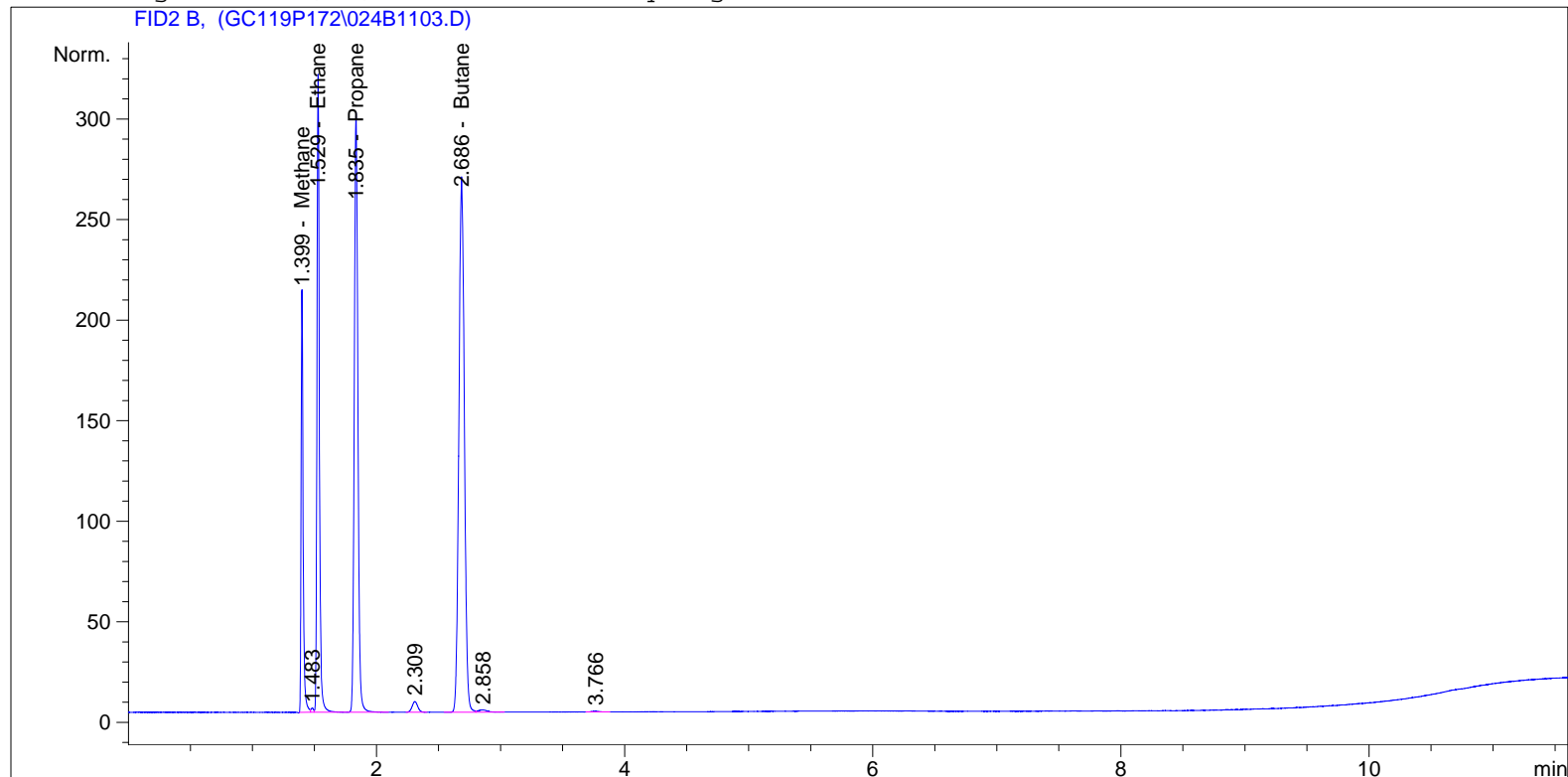
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : tbo                      Seq. Line :   11
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 18:05:33      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV	236.82468	4.25165	1006.89662		Methane
1.529	VV	428.95789	2.32619	997.83650		Ethane
1.835	VB	604.54755	1.59591	964.80318		Propane
2.686	BV	820.81104	1.19001	976.77446		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 3946.31076

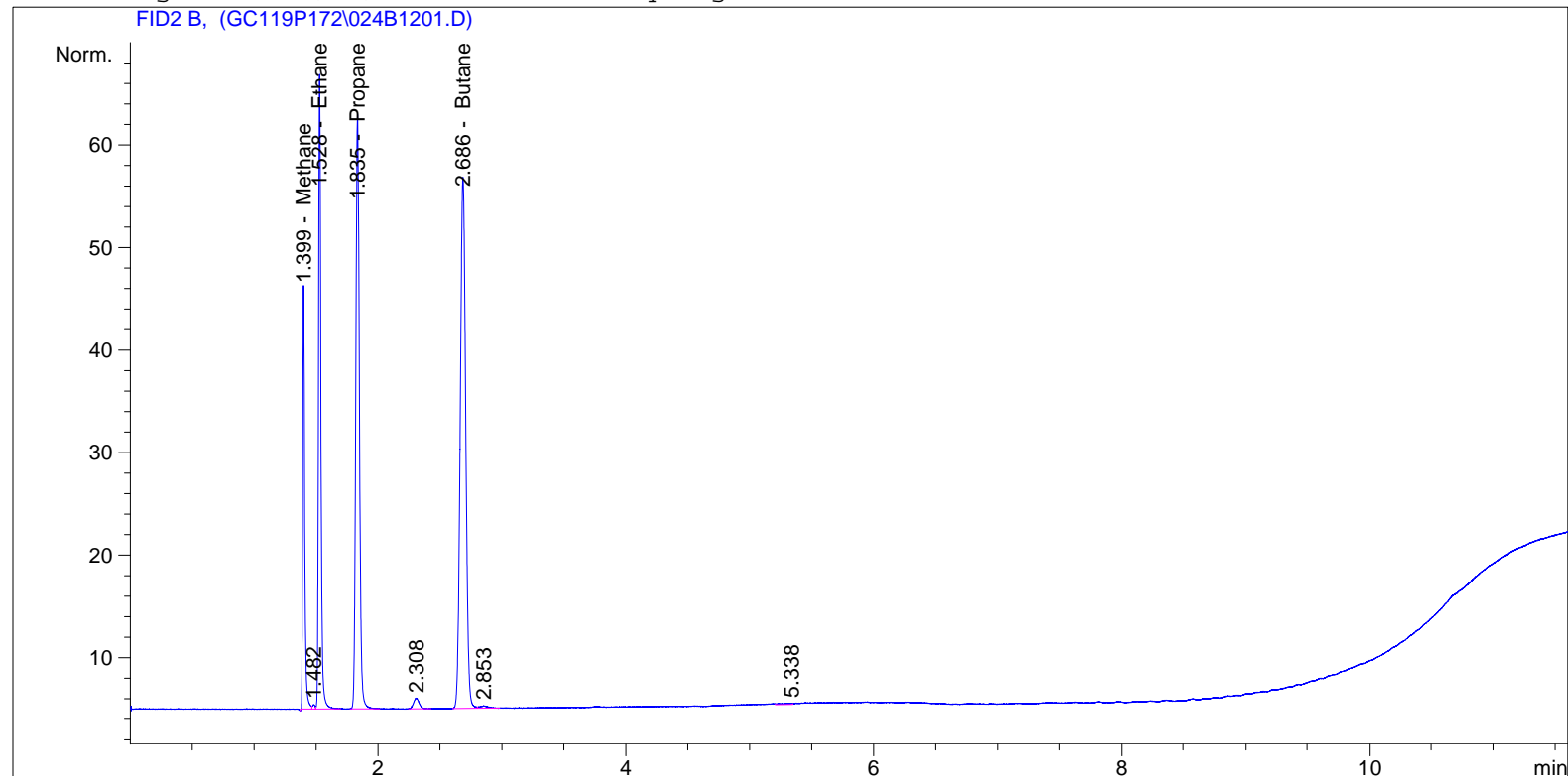
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   12
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 18:24:45      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	VV	46.43449	4.25821	197.72790		Methane
1.528	VB	83.63244	2.32936	194.80971		Ethane
1.835	BB	117.63439	1.59726	187.89291		Propane
2.686	BV	159.45380	1.19043	189.81840		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc114p102 #C6 ENV(1=980,3=21.11)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 770.24891

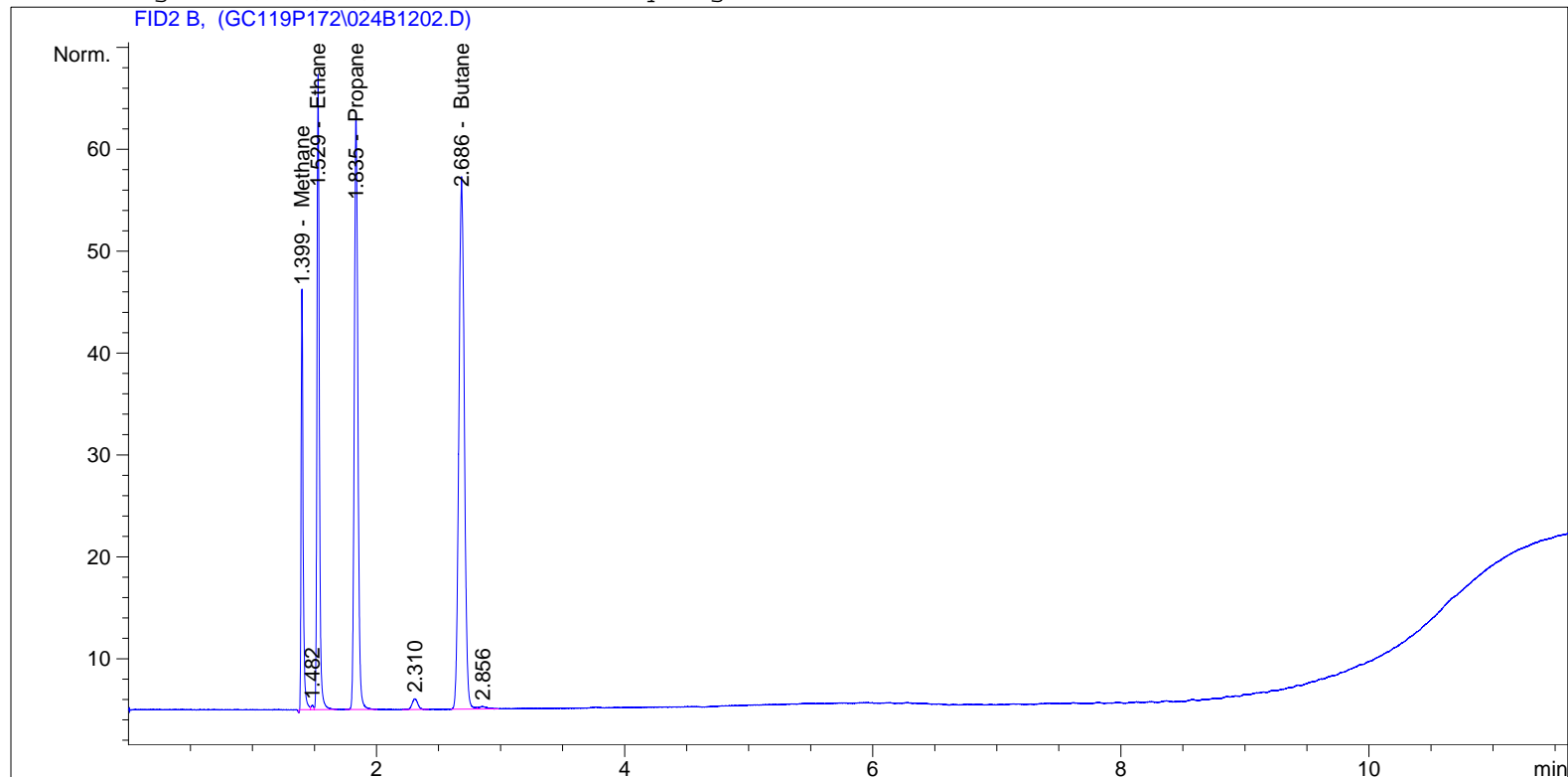
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   12
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 18:43:58      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	VV	46.42485	4.25821	197.68693		Methane
1.529	VB	84.10495	2.32933	195.90850		Ethane
1.835	BB	118.61958	1.59725	189.46485		Propane
2.686	BV	161.21057	1.19042	191.90881		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc114p102 #C6 ENV(1=980,3=21.11)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 774.96908

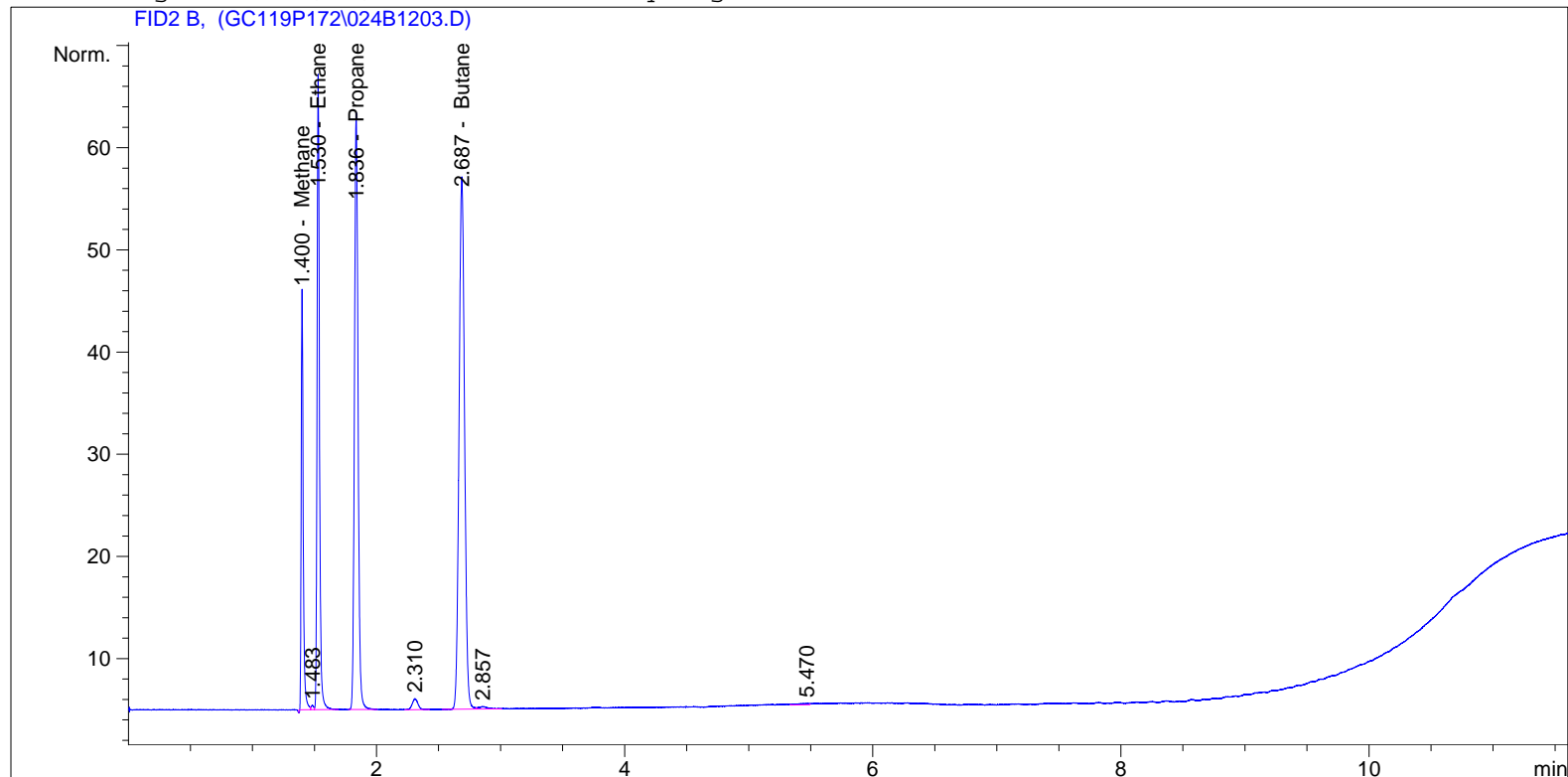
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   12
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 19:03:07      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	VV	46.31731	4.25823	197.22984		Methane
1.530	VB	83.91653	2.32934	195.47034		Ethane
1.836	BB	118.28161	1.59725	188.92560		Propane
2.687	BV	160.69933	1.19042	191.30047		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.186		-	-	-		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc114p102 #C6 ENV(1=980,3=21.11)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.980	-	-	-	-	-	Tetrachloroethene

Totals : 772.92624

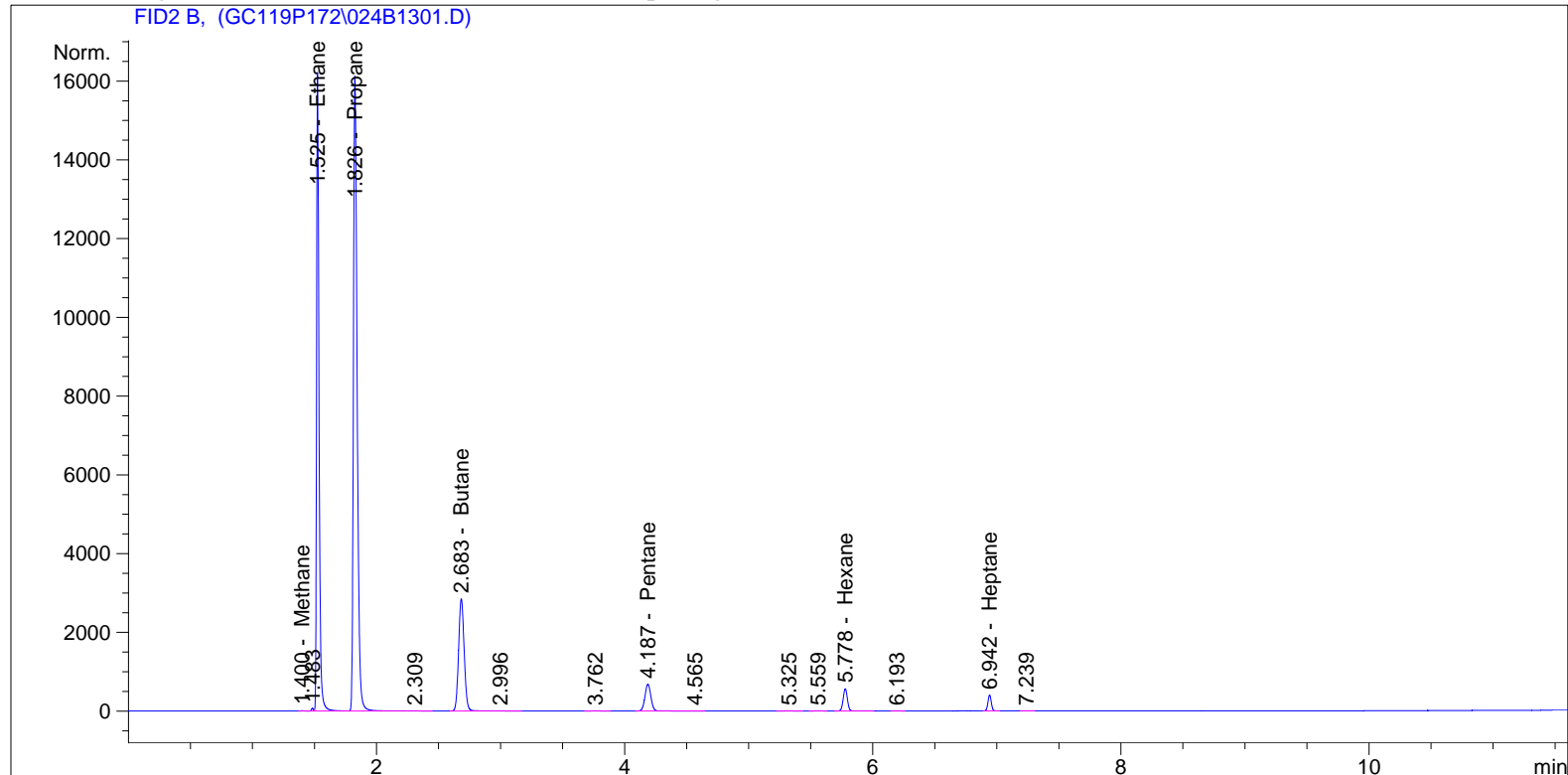
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : tbo                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 19:34:35      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	VV	7.24547	4.30233	31.17239		Methane
1.525	VV	2.22010e4	2.32544	5.16271e4		Ethane
1.826	VV	3.36738e4	1.59559	5.37295e4		Propane
2.683	BV	8836.84180	1.18992	1.05151e4		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BB	2230.41968	9.61022e-1	2143.48183		Pentane
4.500		-	-	-		Methylene chloride
5.778	VB	1325.43579	7.97053e-1	1056.44282		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C14 ENV(1=0,4=492.93)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	755.43555	6.98635e-1	527.77354		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 1.19631e5

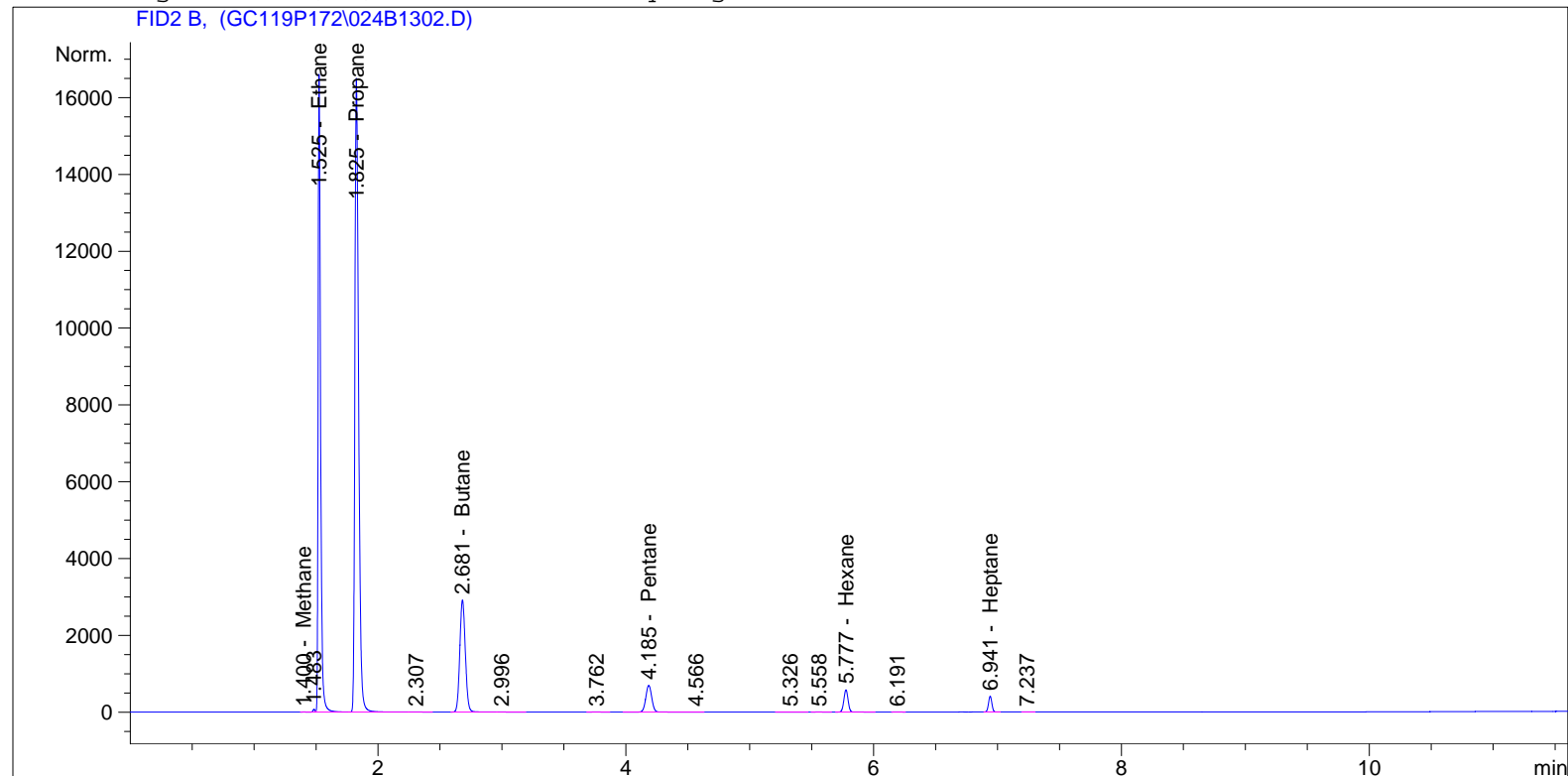
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 20:24:21      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2011 4:18:45 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	VV	2.52278	4.40019	11.10068		Methane
1.525	VV	2.27367e4	2.32543	5.28727e4		Ethane
1.825	VV	3.44883e4	1.59559	5.50291e4		Propane
2.681	BV	9042.70020	1.18992	1.07601e4		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.185	BB	2285.83862	9.61021e-1	2196.73789		Pentane
4.500		-	-	-		Methylene chloride
5.777	BB	1359.10449	7.97053e-1	1083.27784		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C14 ENV(1=0,4=492.93)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.941	BB	776.59595	6.98628e-1	542.55196		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 1.22496e5

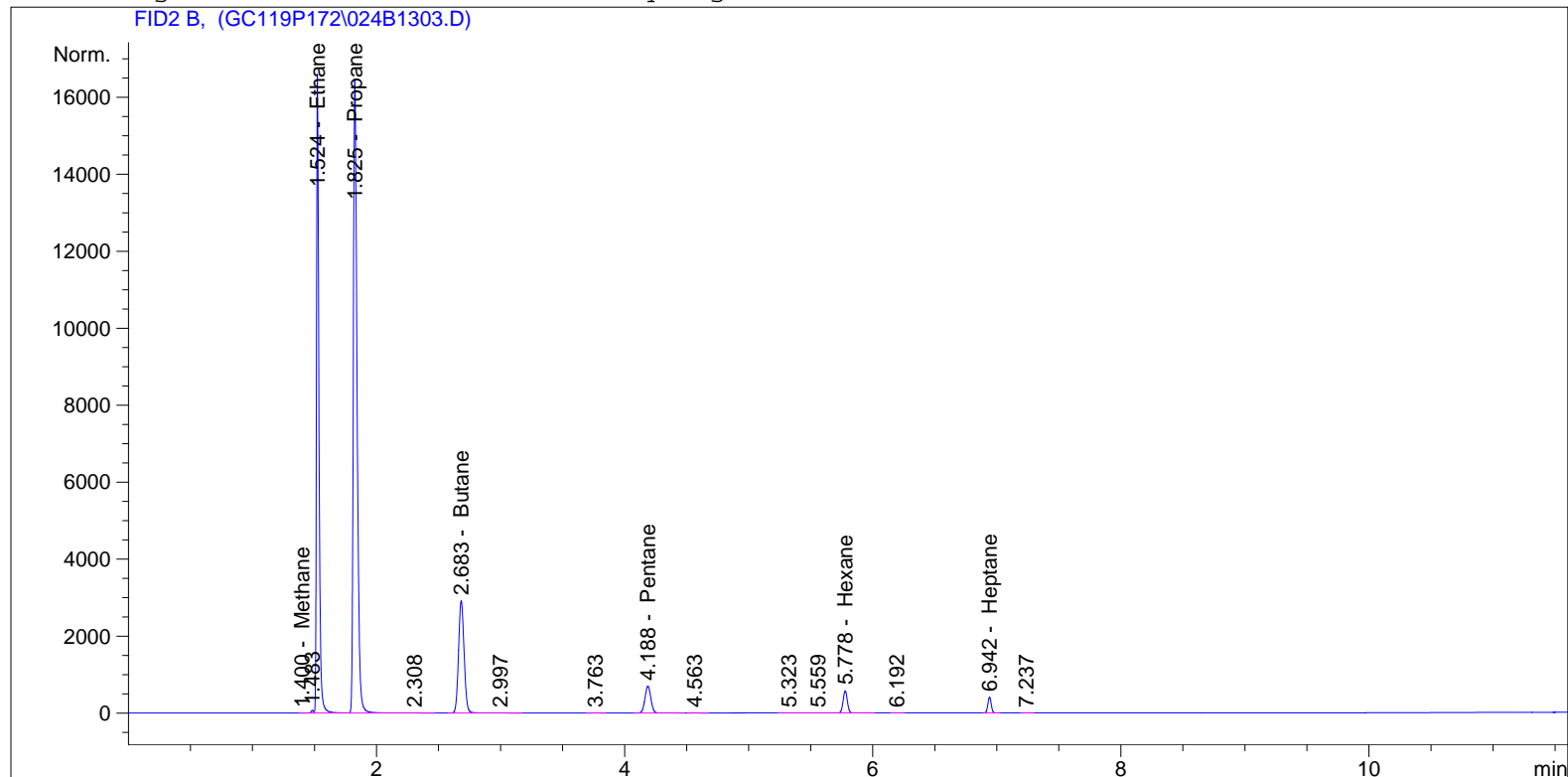
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 20:43:22      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	VB	6.53025e-1	4.83004	3.15414		Methane
1.524	VV	2.27181e4	2.32543	5.28294e4		Ethane
1.825	VV	3.44581e4	1.59559	5.49810e4		Propane
2.683	VV	9033.43945	1.18992	1.07491e4		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.188	BB	2285.54565	9.61021e-1	2196.45635		Pentane
4.500		-	-	-		Methylene chloride
5.778	VB	1359.86572	7.97053e-1	1083.88457		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C14 ENV(1=0,4=492.93)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	776.70984	6.98628e-1	542.63150		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 1.22386e5

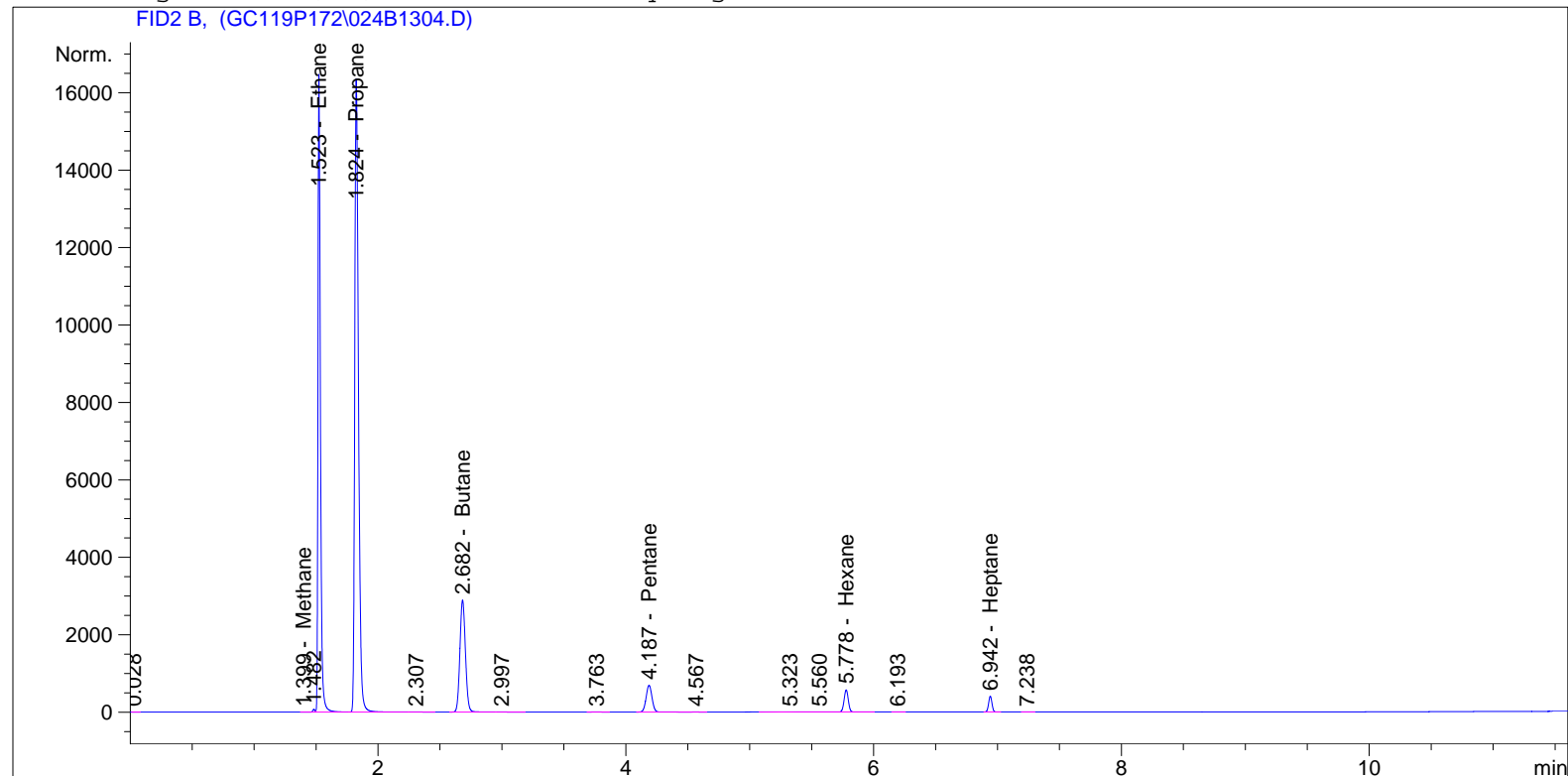
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                      Seq. Line :   13
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 21:02:30      Inj       :    4
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	VV	2.46258e-1	5.24293	1.29111		Methane
1.523	VV	2.25267e4	2.32543	5.23844e4		Ethane
1.824	VV	3.41650e4	1.59559	5.45133e4		Propane
2.682	VV	8955.45020	1.18992	1.06563e4		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BV	2266.48364	9.61021e-1	2178.13829		Pentane
4.500		-	-	-		Methylene chloride
5.778	VB	1348.15454	7.97053e-1	1074.55038		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C14 ENV(1=0,4=492.93)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	769.69775	6.98630e-1	537.73426		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 1.21346e5

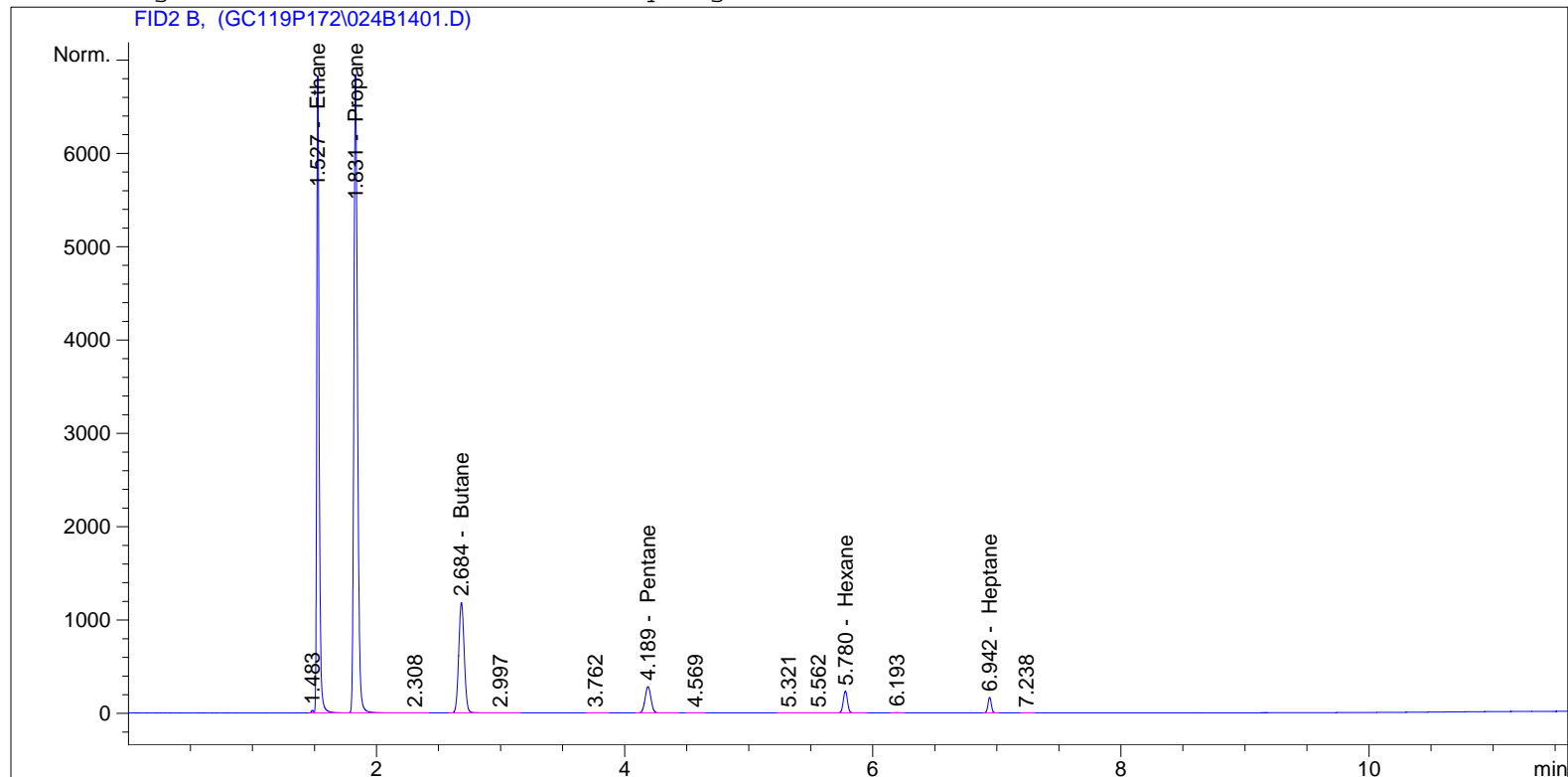
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : tbo                               Seq. Line :   14
Acq. Instrument : Gummo online                       Location  : Vial 24
Injection Date  : 21-May-11, 21:21:41                Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:     : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.527	VV	9242.90918	2.32546	2.14940e4		Ethane
1.831	VV	1.40078e4	1.59560	2.23509e4		Propane
2.684	VV	3665.69214	1.18993	4361.92893		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.189	BB	926.63586	9.61092e-1	890.58204		Pentane
4.500		-	-	-		Methylene chloride
5.780	VB	551.12903	7.97083e-1	439.29574		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	314.59702	6.98964e-1	219.89187		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 4.97566e4

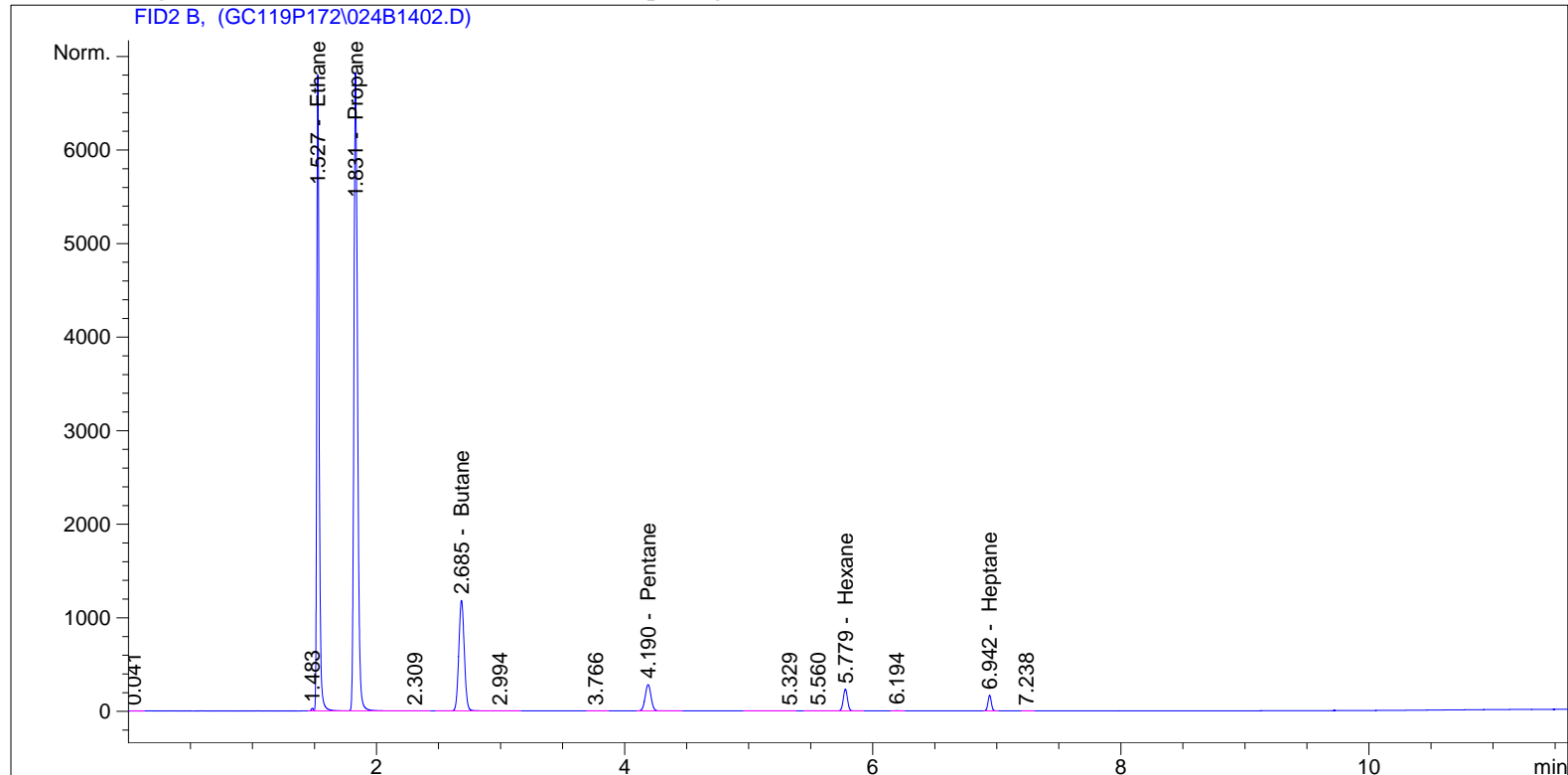
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                               Seq. Line :   14
Acq. Instrument : Gummo online                       Location  : Vial 24
Injection Date  : 21-May-11, 21:40:53                Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.527	VV	9201.11914	2.32546	2.13968e4		Ethane
1.831	VV	1.39447e4	1.59560	2.22502e4		Propane
2.685	BV	3648.11890	1.18993	4341.01834		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.190	BB	922.21515	9.61092e-1	886.33385		Pentane
4.500		-	-	-		Methylene chloride
5.779	VB	548.08905	7.97084e-1	436.87278		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	313.01480	6.98966e-1	218.78685		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 4.95300e4

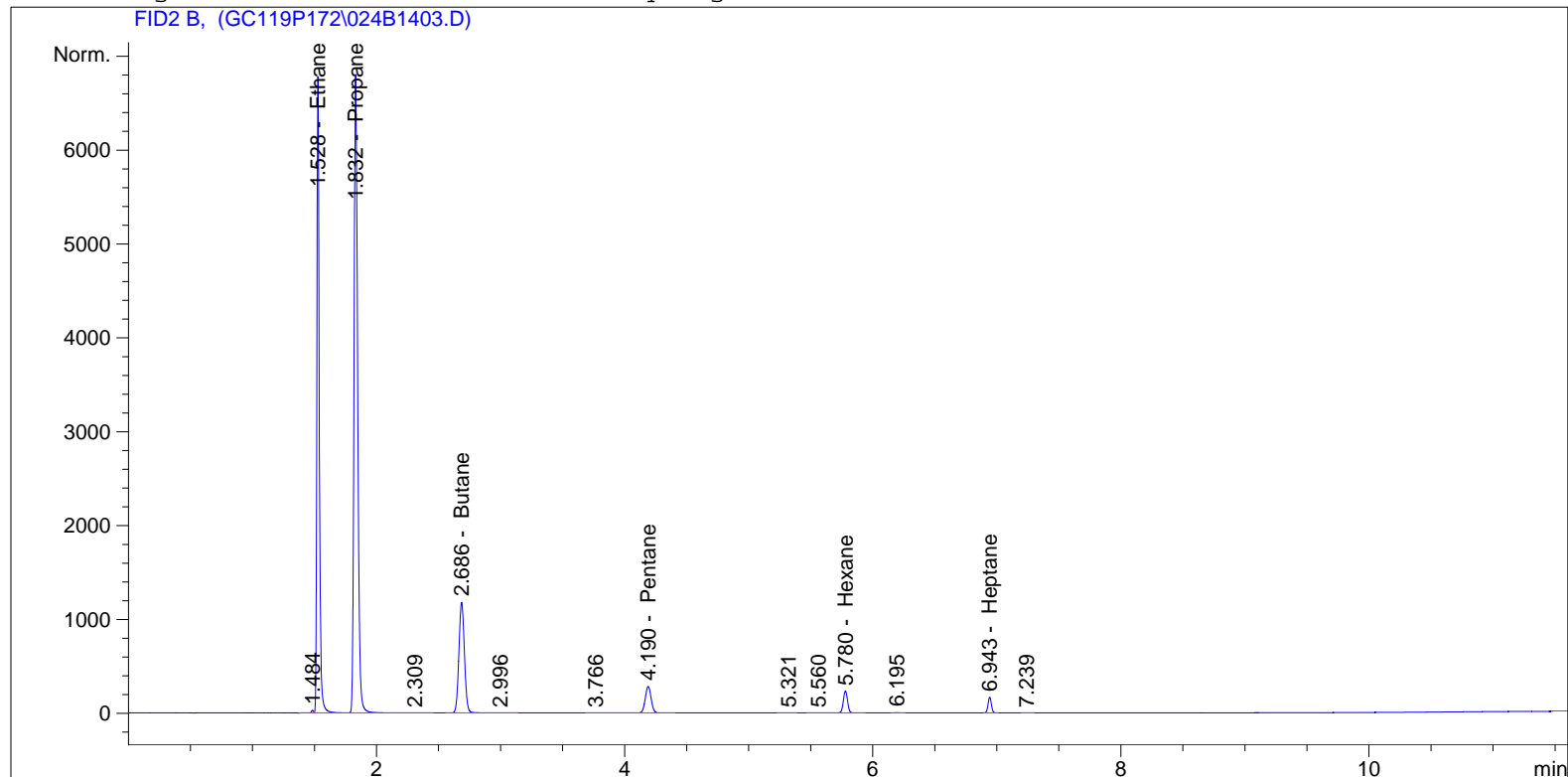
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                               Seq. Line :   14
Acq. Instrument : Gummo online                       Location  : Vial 24
Injection Date  : 21-May-11, 22:00:08                Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.528	VV	9187.84180	2.32546	2.13659e4		Ethane
1.832	VV	1.39223e4	1.59560	2.22144e4		Propane
2.686	BV	3642.42383	1.18993	4334.24172		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.190	VB	920.13416	9.61093e-1	884.33408		Pentane
4.500		-	-	-		Methylene chloride
5.780	VB	547.26288	7.97084e-1	436.21430		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.943	BB	312.57230	6.98967e-1	218.47781		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 4.94536e4

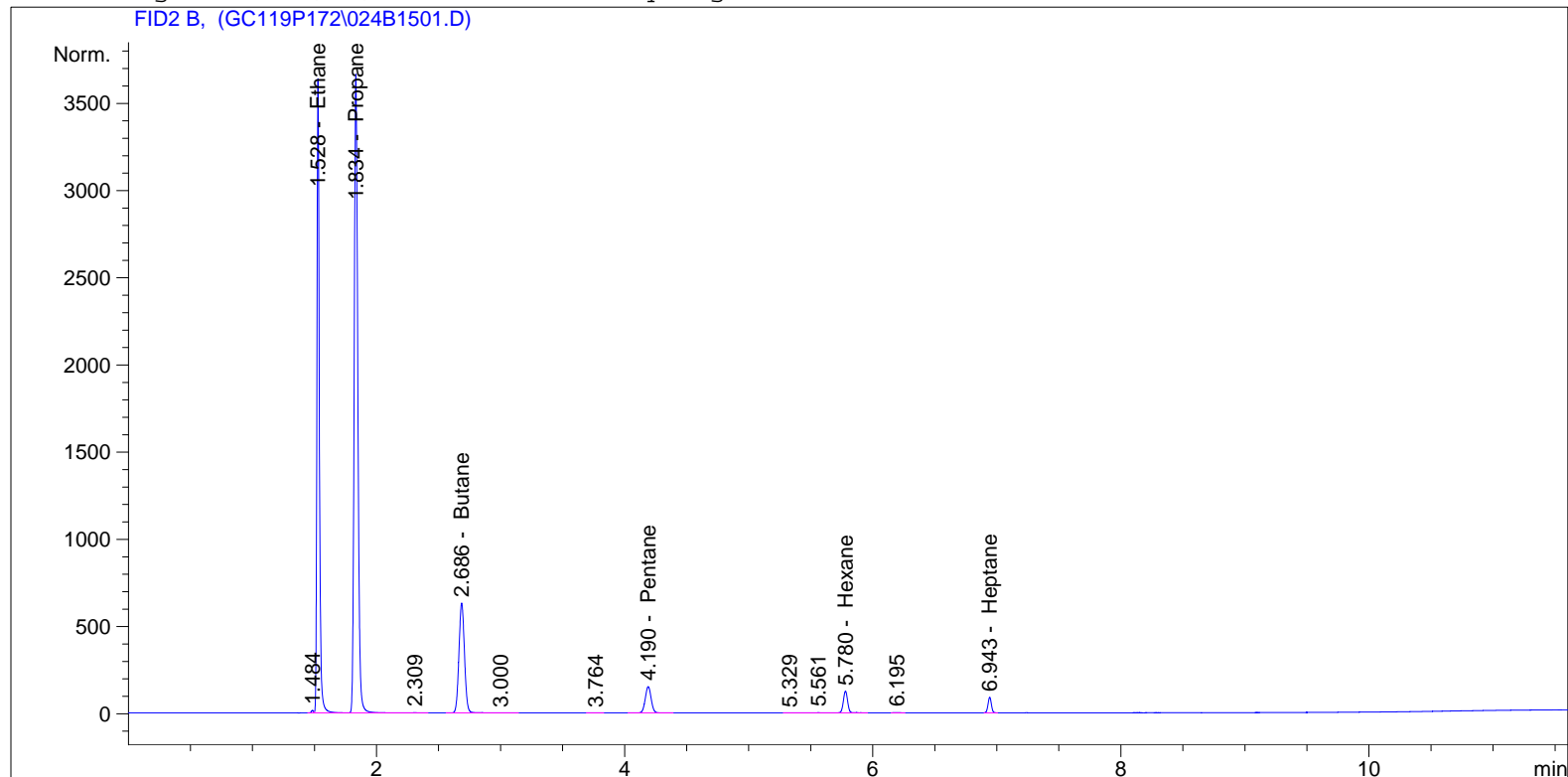
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                               Seq. Line :   15
Acq. Instrument : Gummo online                       Location  : Vial 24
Injection Date  : 21-May-11, 22:19:23                Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.528	VV	4916.81934	2.32549	1.14340e4		Ethane
1.834	VV	7449.14063	1.59561	1.18859e4		Propane
2.686	BV	1947.93921	1.18995	2317.95633		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.190	BB	491.81509	9.61197e-1	472.73143		Pentane
4.500		-	-	-		Methylene chloride
5.780	VB	292.88913	7.97129e-1	233.47034		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.943	BB	166.92860	6.99462e-1	116.76024		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 2.64608e4

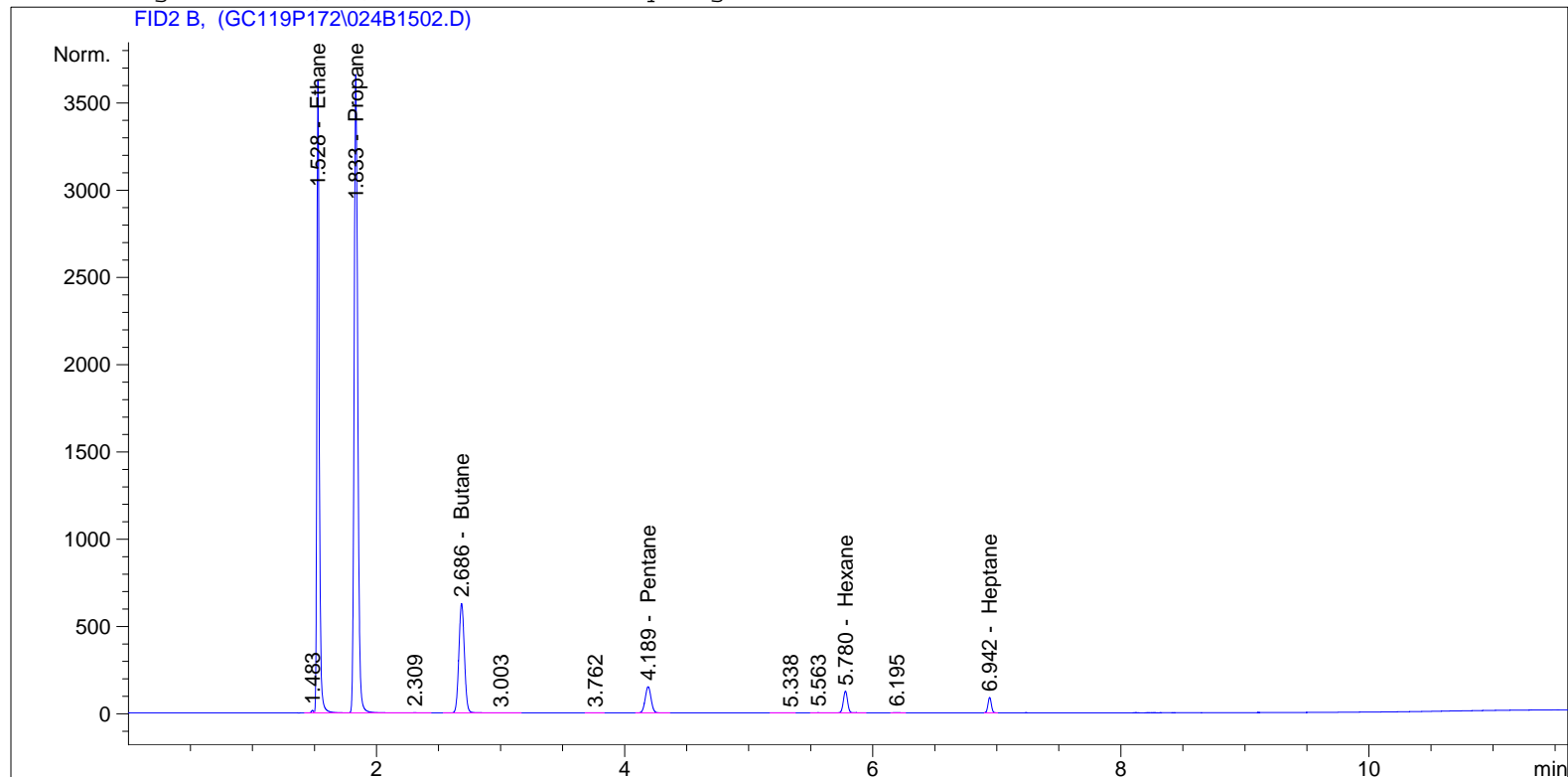
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : tbo                      Seq. Line :   15
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 21-May-11, 22:38:41      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.528	VV	4909.96973	2.32549	1.14181e4		Ethane
1.833	VB	7439.20166	1.59561	1.18701e4		Propane
2.686	BV	1944.76111	1.18995	2314.17468		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.189	BB	490.84140	9.61198e-1	471.79574		Pentane
4.500		-	-	-		Methylene chloride
5.780	VB	292.27631	7.97129e-1	232.98190		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	166.59731	6.99464e-1	116.52886		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 2.64236e4

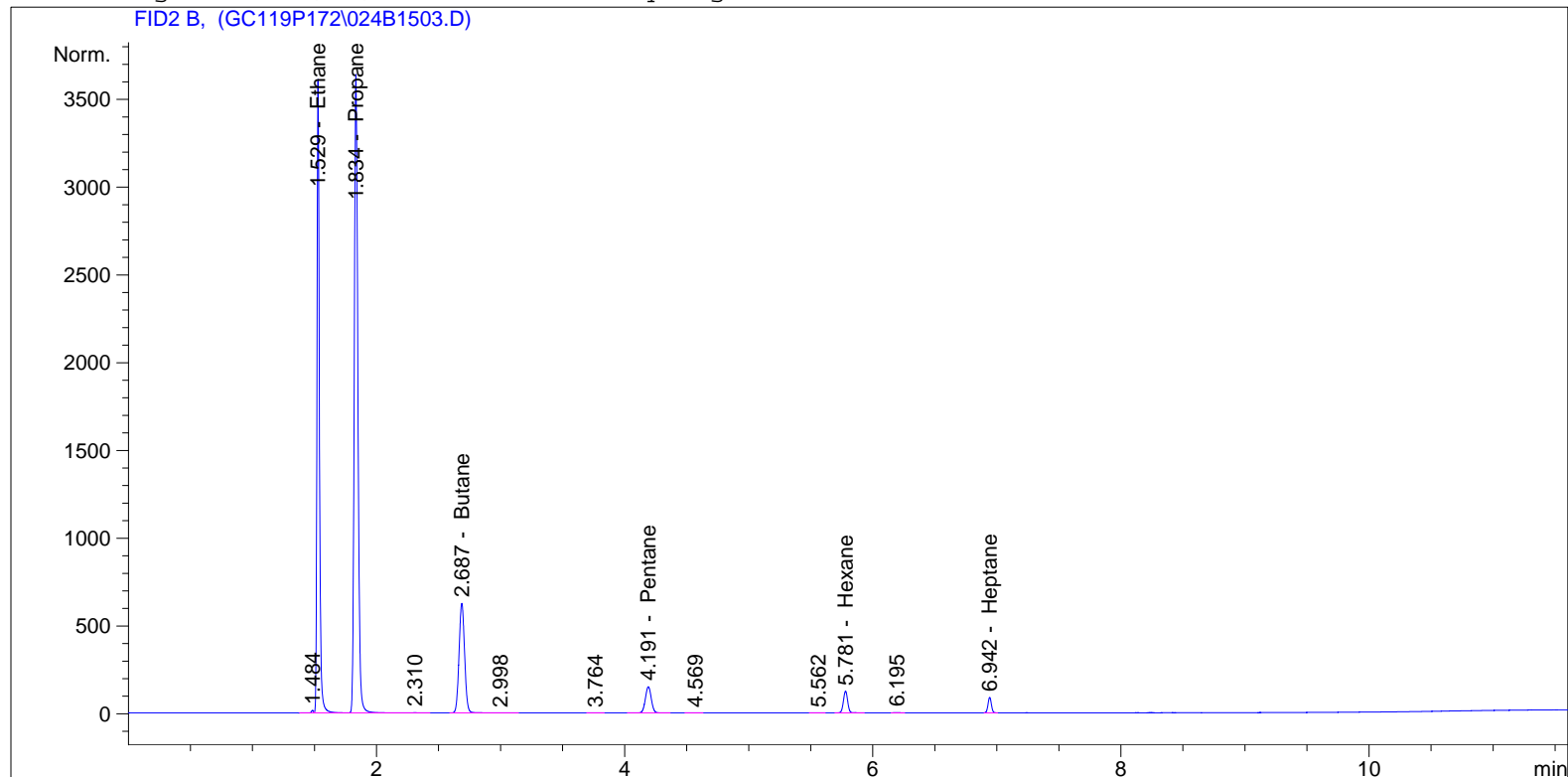
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : tbo                               Seq. Line :   15
Acq. Instrument : Gummo online                       Location  : Vial 24
Injection Date  : 21-May-11, 22:58:01                Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q2\GUMMO\SEQUENCE\GC119P172.S
Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/23/2011 4:18:52 PM by stg
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 5/23/2011 4:18:45 PM
Multiplier:     : 1.0000
Dilution:       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.397		-	-	-		Methane
1.529	VV	4882.40039	2.32549	1.13540e4		Ethane
1.834	VV	7399.11182	1.59561	1.18061e4		Propane
2.687	BV	1934.58826	1.18995	2302.06989		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.191	VB	489.31058	9.61199e-1	470.32466		Pentane
4.500		-	-	-		Methylene chloride
5.781	BB	290.59534	7.97130e-1	231.64212		Hexane
6.496	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C12 ENV(1=750,4=273.85)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.889		-	-	-		Trichloroethene
6.942	BB	165.71158	6.99470e-1	115.91027		Heptane
7.562		-	-	-		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.980		-	-	-		Tetrachloroethene

Totals : 2.62800e4

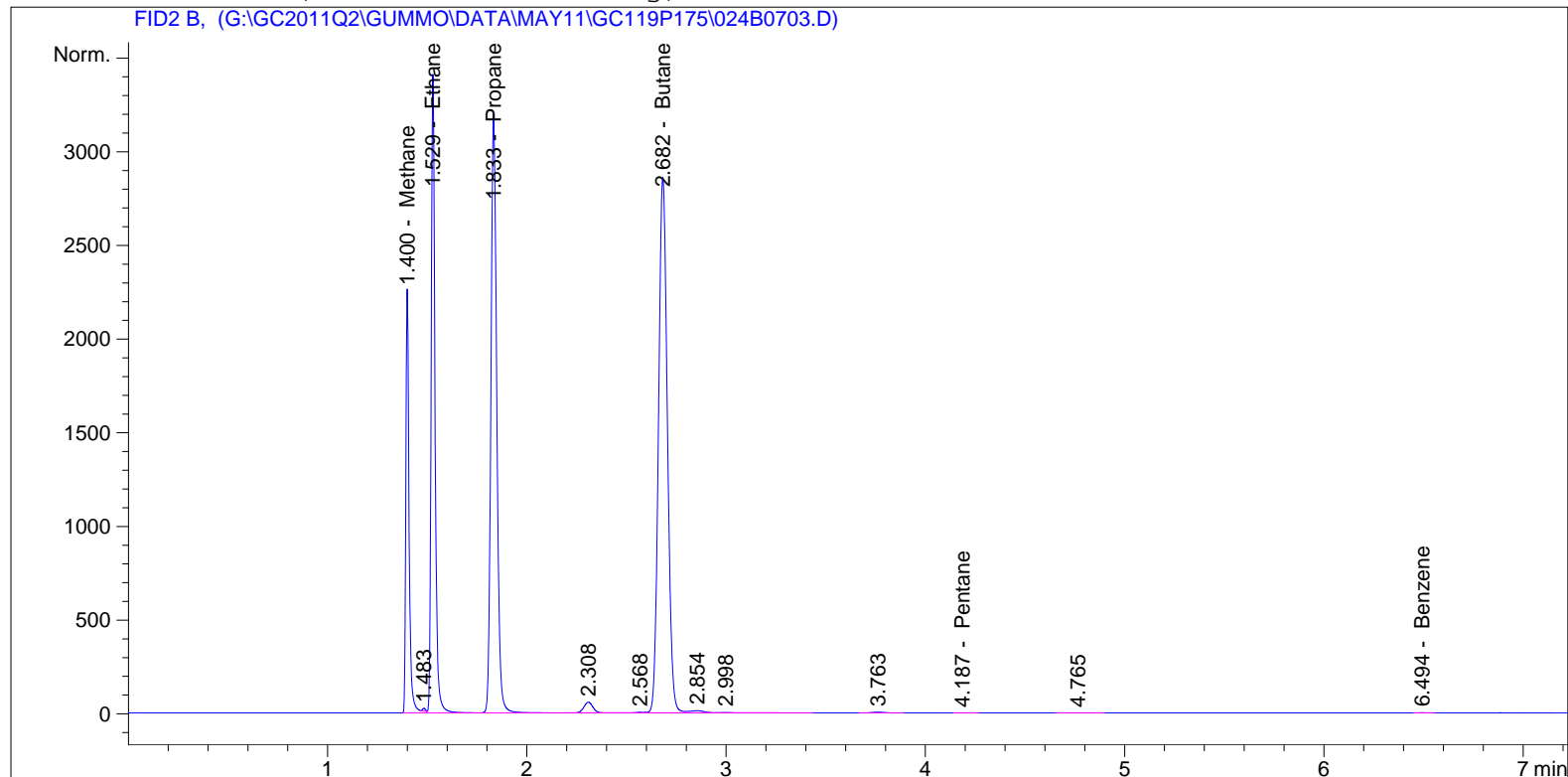
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    7
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 24-May-11, 11:45:30      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/24/2011 11:53:13 AM by stg
                  (modified after loading)
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : Tuesday, May 24, 2011 11:53:12 AM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	BV S	2562.38721	4.26676	1.09331e4		Methane
1.529	VV S	4604.22656	2.33340	1.07435e4		Ethane
1.833	VB S	6506.82910	1.60073	1.04157e4		Propane
2.682	VV T	8825.34277	1.19368	1.05346e4		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.187	BB	4.19414e-1	1.01737	4.26701e-1		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.494	BB	5.3700e-1	1.09131	7.13391e-1		Benzene

Base Analytical
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: gc119p172 #C9 ENV(1=0,4=300)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.888	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.978	-	-	-	-	-	Tetrachloroethene

Totals : 4.26280e4

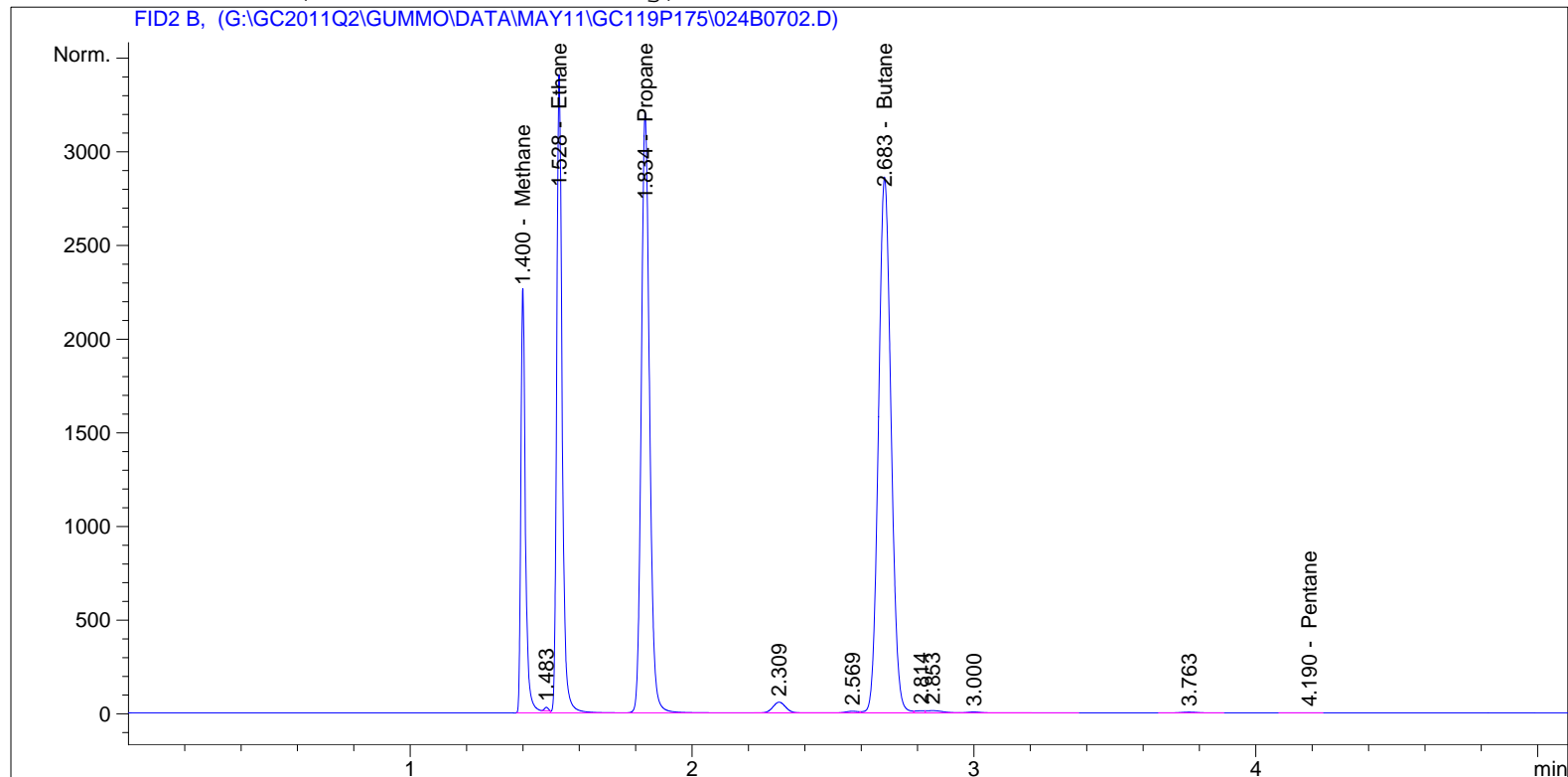
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : stg                      Seq. Line :    7
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 24-May-11, 11:34:59      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/24/2011 11:53:13 AM by stg
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           : Signal
Calib. Data Modified : Tuesday, May 24, 2011 11:53:12 AM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.400	BV S	2566.23633	4.26676	1.09495e4		Methane
1.528	VV S	4610.41064	2.33340	1.07579e4		Ethane
1.834	VB S	6521.16504	1.60073	1.04386e4		Propane
2.683	VV T	8847.00586	1.19368	1.05605e4		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.190	BV	5.57877e-1	1.01737	5.67569e-1		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.494	Pace Analytical FSD 1108-200	-	-	-		Benzene

Sample Name: gc119p172 #C9 ENV(1=0,4=300)

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.888	-	-	-	-	-	Trichloroethene
6.940	-	-	-	-	-	Heptane
7.562	-	-	-	-	-	Toluene
7.835	-	-	-	-	-	1,2 Dibromoethane
7.978	-	-	-	-	-	Tetrachloroethene

Totals : 4.27071e4

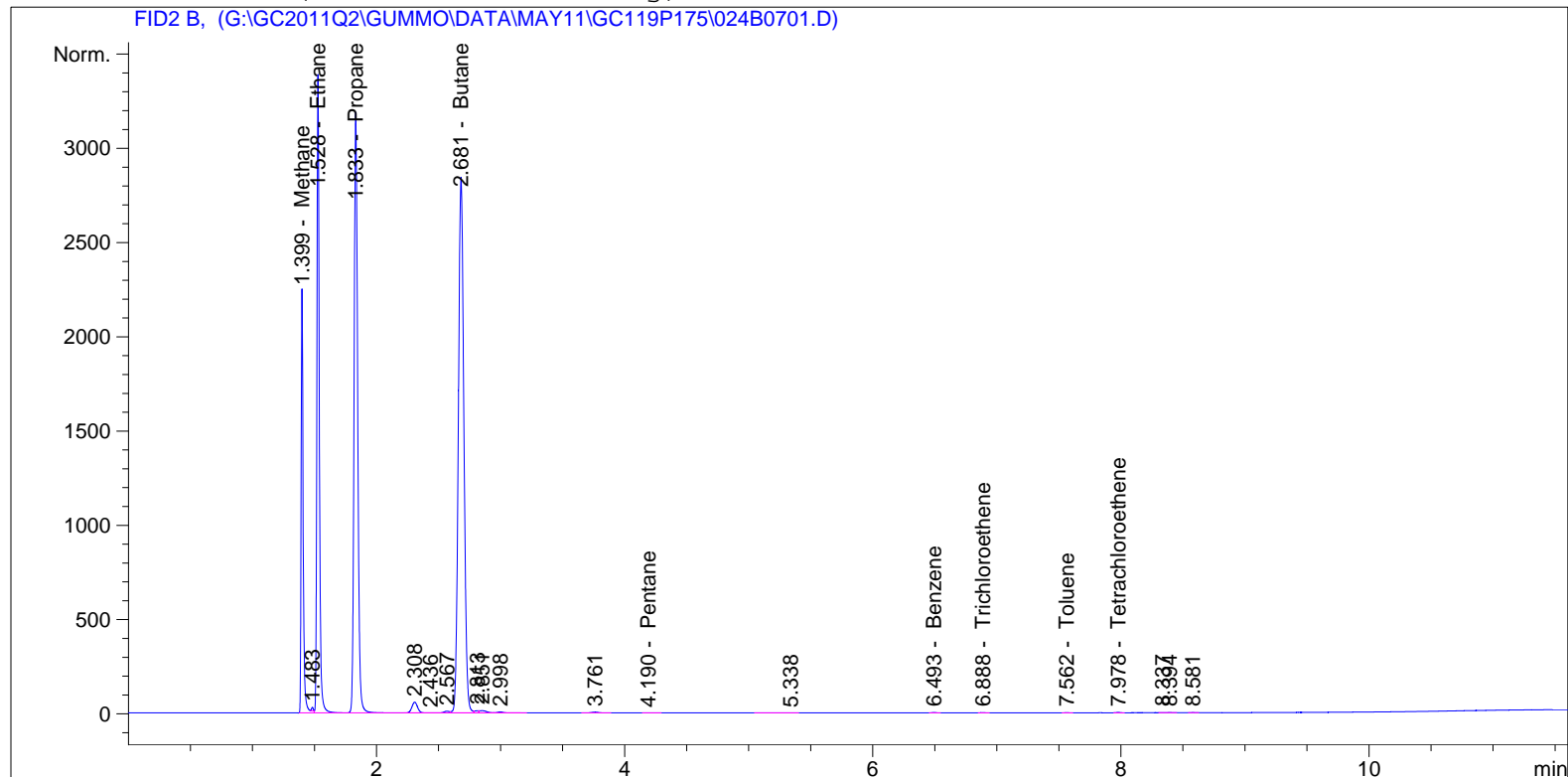
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***


```
=====
Acq. Operator   : stg                      Seq. Line :    7
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 24-May-11, 11:13:36      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q2\GUMMO\METHODS\GC114P172R.M
Last changed    : 5/24/2011 11:53:13 AM by stg
                  (modified after loading)
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 24, 2011 11:53:12 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.399	BV S	2546.42603	4.26676	1.08650e4		Methane
1.528	VV S	4576.07422	2.33340	1.06778e4		Ethane
1.833	VB S	6476.58545	1.60073	1.03672e4		Propane
2.681	VV T	8776.17480	1.19368	1.04759e4		Butane
3.453		-	-	-		Acetonitrile
3.590		-	-	-		Acrolein
3.699		-	-	-		Acetone
4.106		-	-	-		Acrylonitrile
4.190	VB	4.09691e-1	1.01737	4.16808e-1		Pentane
4.500		-	-	-		Methylene chloride
5.777		-	-	-		Hexane
6.493	Base Analytical FSD 1108-200	3.47145	1.09131	3.78844		Benzene

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
6.888	BB	1.66802	2.62469	4.37805		Trichloroethene
6.940		-	-	-		Heptane
7.562	BB	6.39504e-1	7.95116e-1	5.08480e-1		Toluene
7.835		-	-	-		1,2 Dibromoethane
7.978	BB	3.85971	2.14038	8.26126		Tetrachloroethene

Totals : 4.24033e4

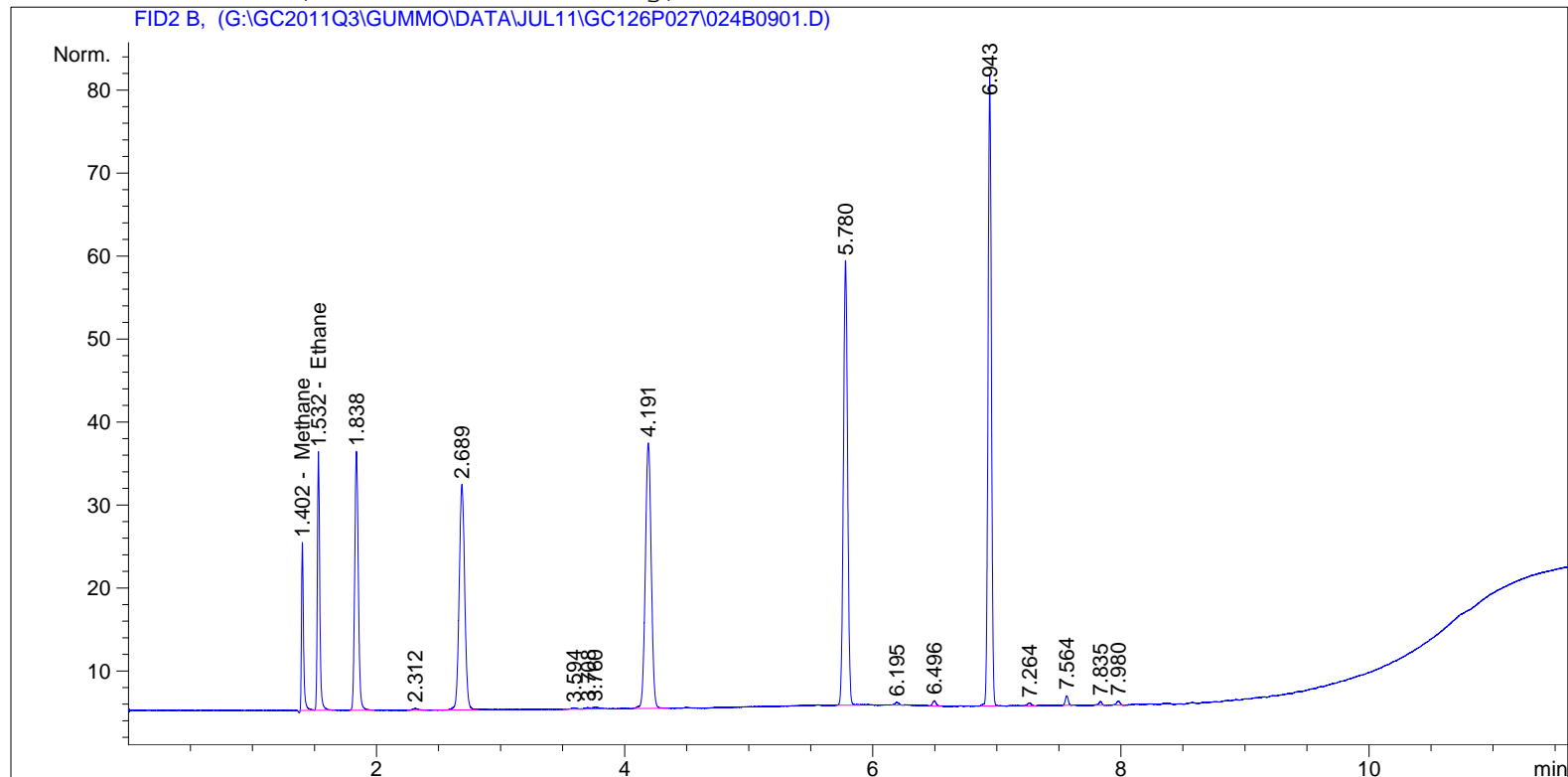
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

```
=====
Acq. Operator   : MGM                               Seq. Line :    9
Acq. Instrument : Gummo online                     Location  : Vial 24
Injection Date  : 27-Jul-11, 11:09:38              Inj       :    1
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

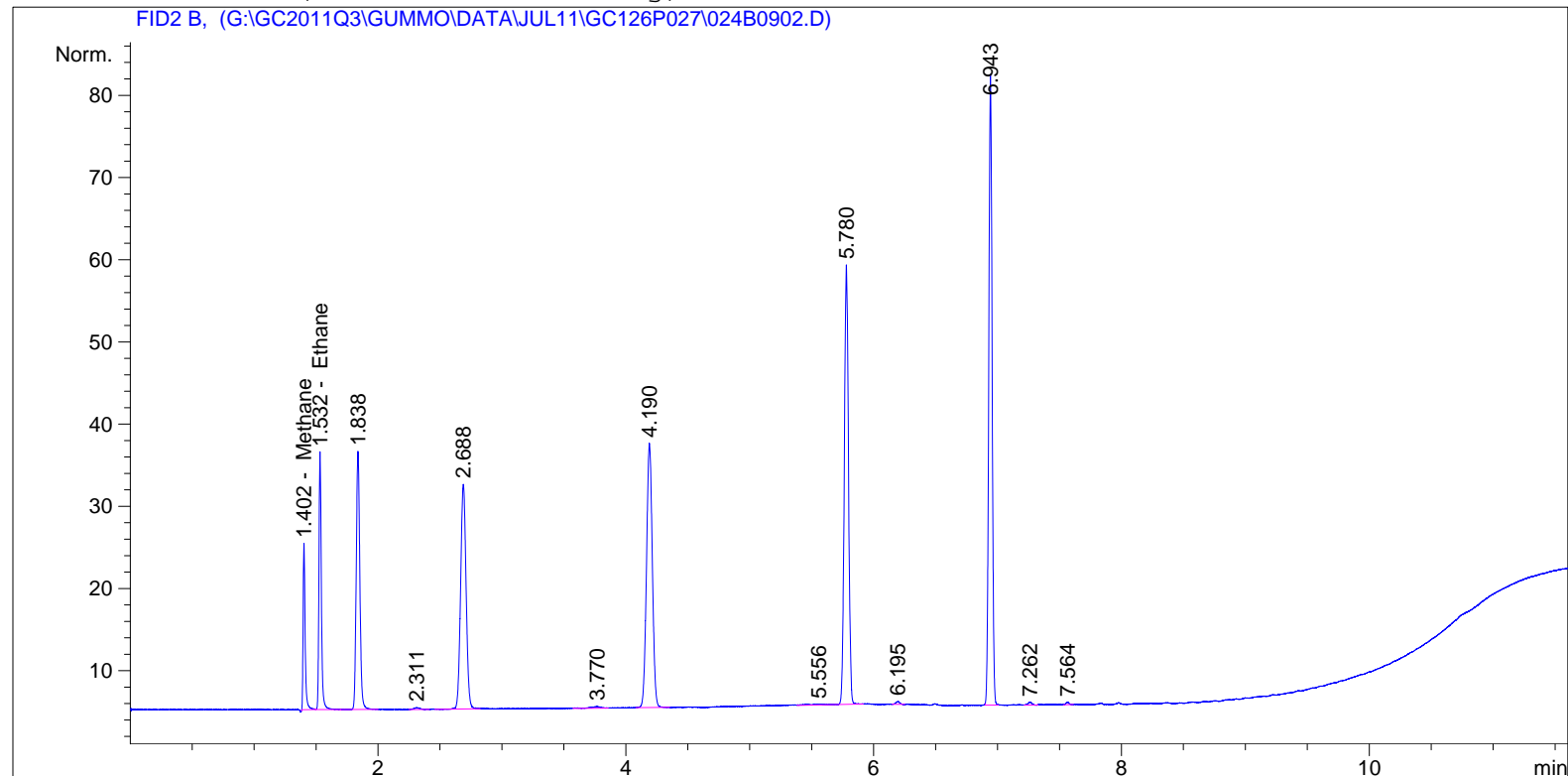
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.85689	4.28278	97.89097		Methane
1.532	VB	41.97030	2.32184	97.44826		Ethane

Totals : 195.33923

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :    9
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 27-Jul-11, 11:28:55      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

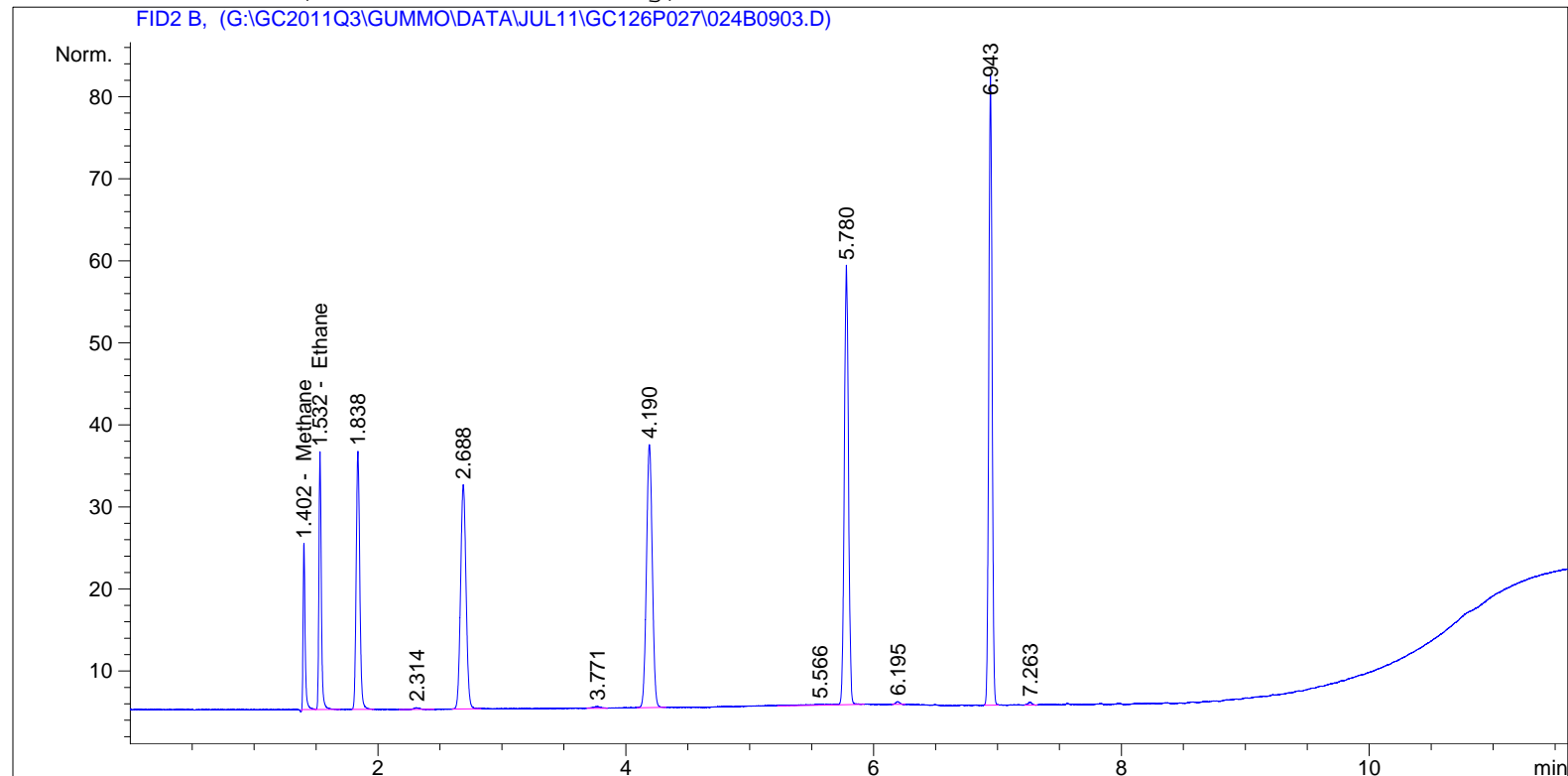
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.88835	4.28276	98.02523		Methane
1.532	VV	42.42064	2.32175	98.49020		Ethane

Totals : 196.51543

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :    9
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 27-Jul-11, 11:48:18      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

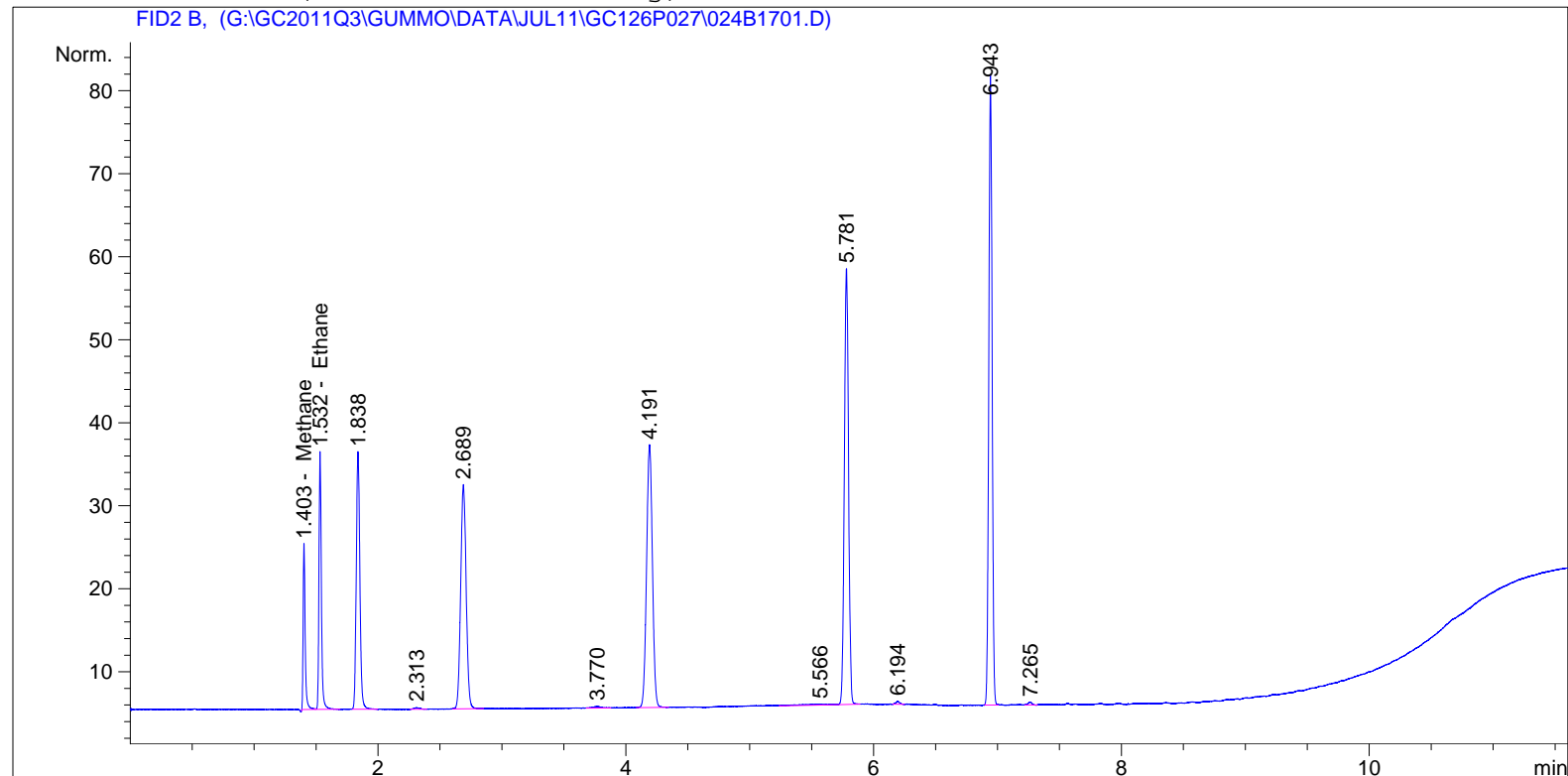
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.86902	4.28277	97.94275		Methane
1.532	VB	42.39356	2.32176	98.42756		Ethane

Totals : 196.37031

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :   17
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 27-Jul-11, 17:57:06      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

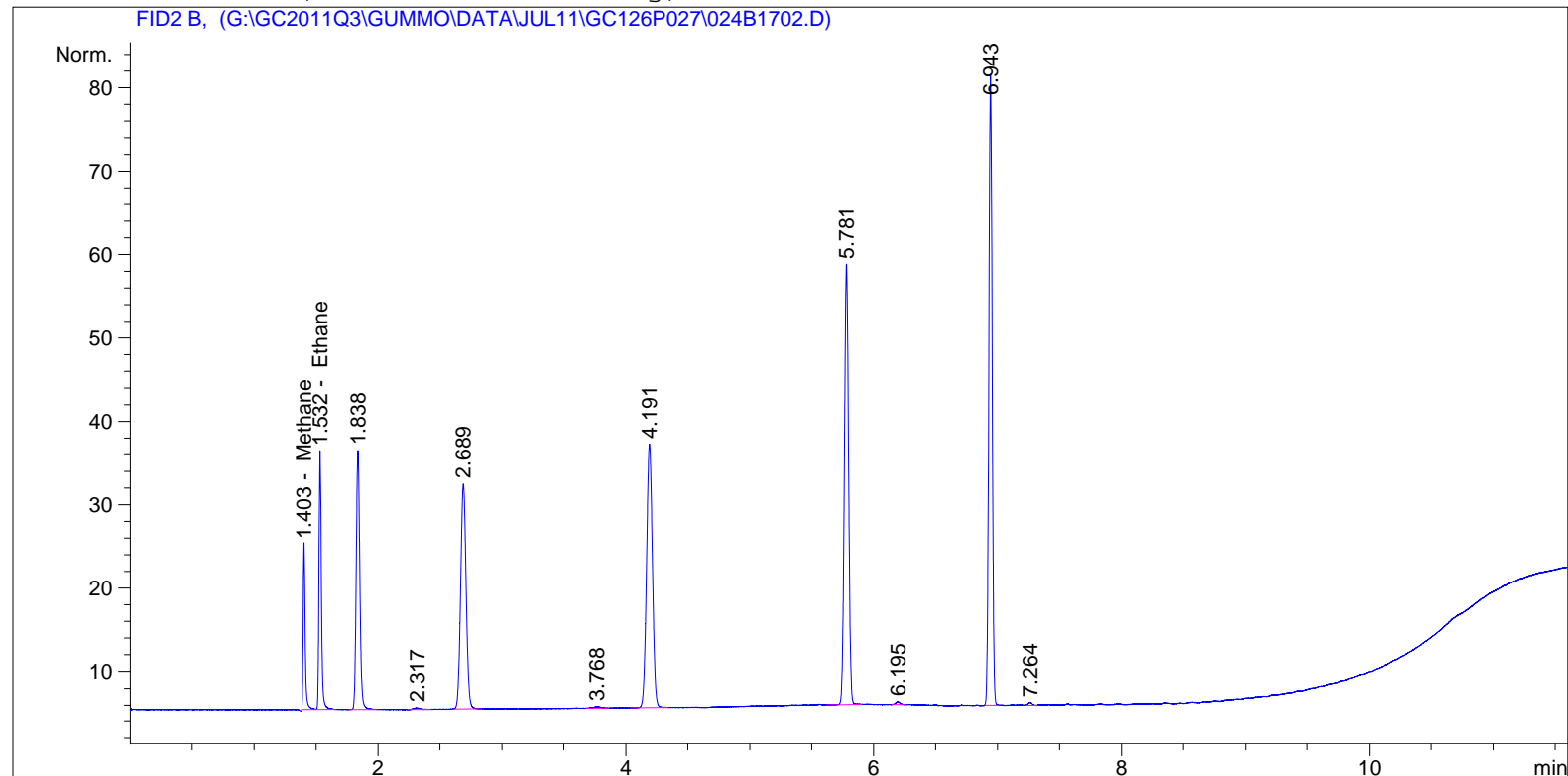
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.403	BV	22.59706	4.28296	96.78239		Methane
1.532	VB	41.90845	2.32185	97.30517		Ethane

Totals : 194.08756

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                               Seq. Line :   17
Acq. Instrument : Gummo online                     Location  : Vial 24
Injection Date  : 27-Jul-11, 18:16:23              Inj       :    2
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

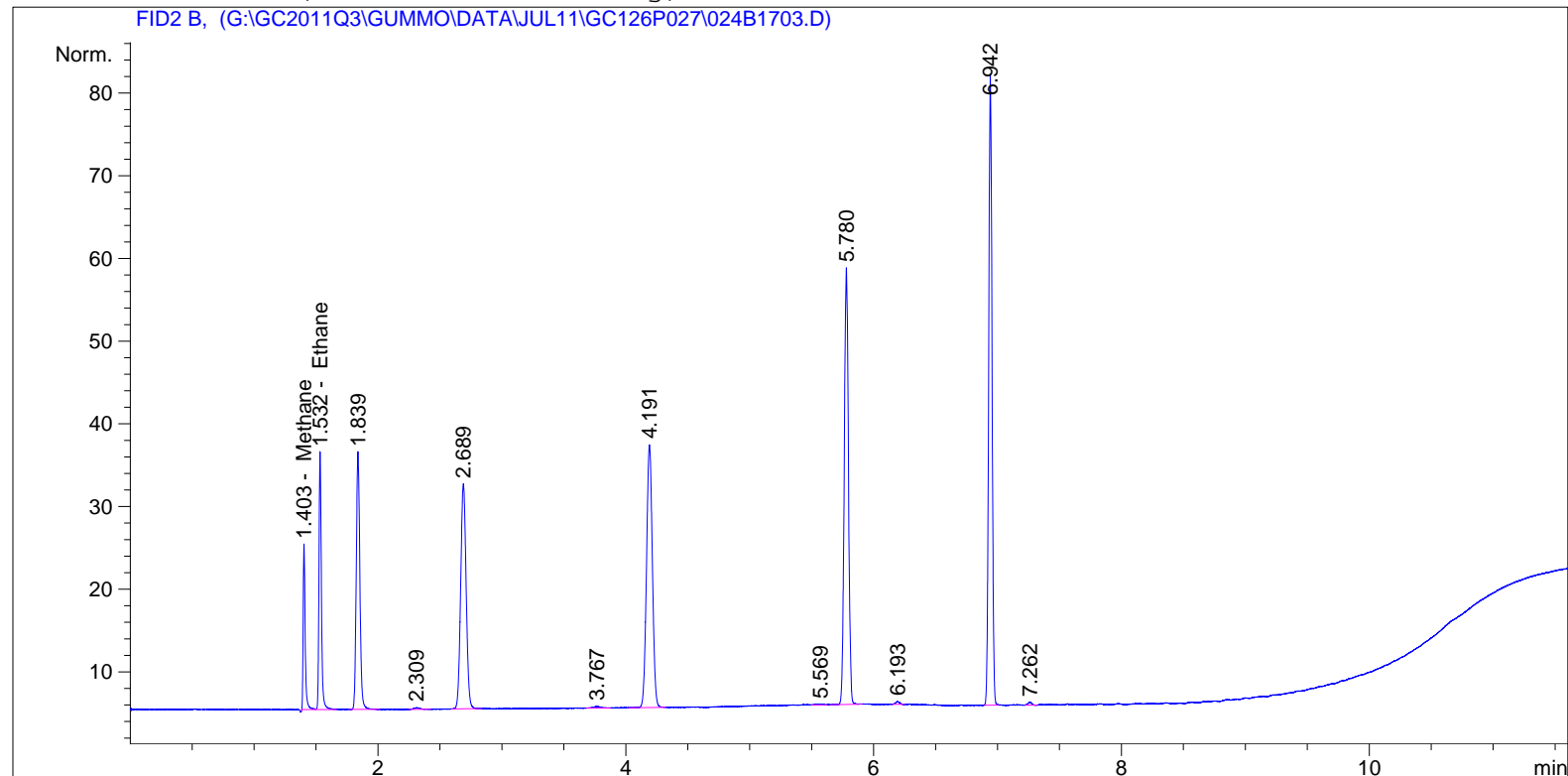
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.403	BV	22.51958	4.28302	96.45180		Methane
1.532	VB	41.71926	2.32189	96.86744		Ethane

Totals : 193.31924

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :   17
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 27-Jul-11, 18:35:35      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.403	BV	22.70948	4.28288	97.26206		Methane
1.532	VB	42.17070	2.32180	97.91193		Ethane

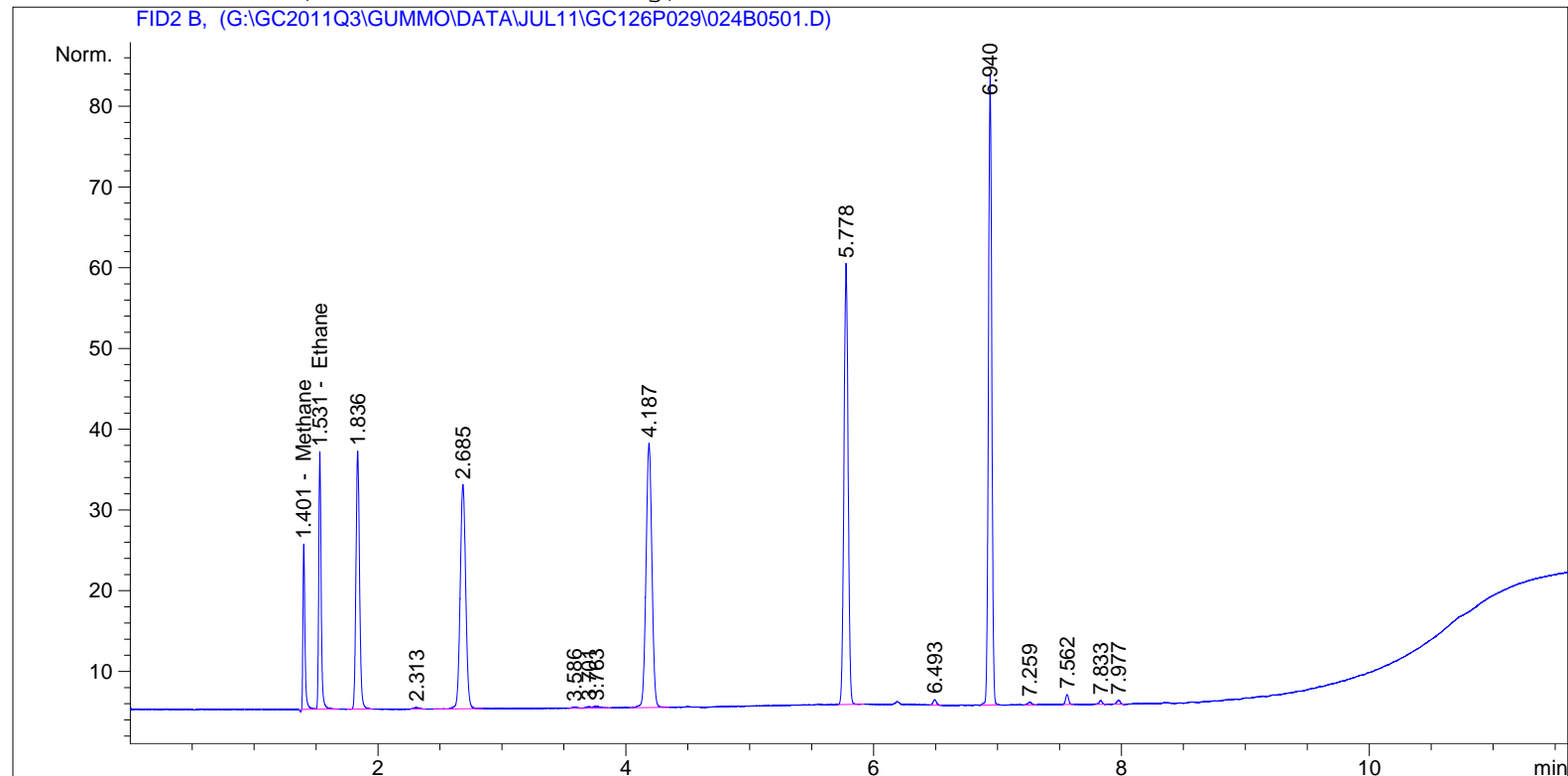
Totals : 195.17399

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : MGM                               Seq. Line :    5
Acq. Instrument : Gummo online                     Location  : Vial 24
Injection Date  : 28-Jul-11, 14:47:29              Inj       :    1
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

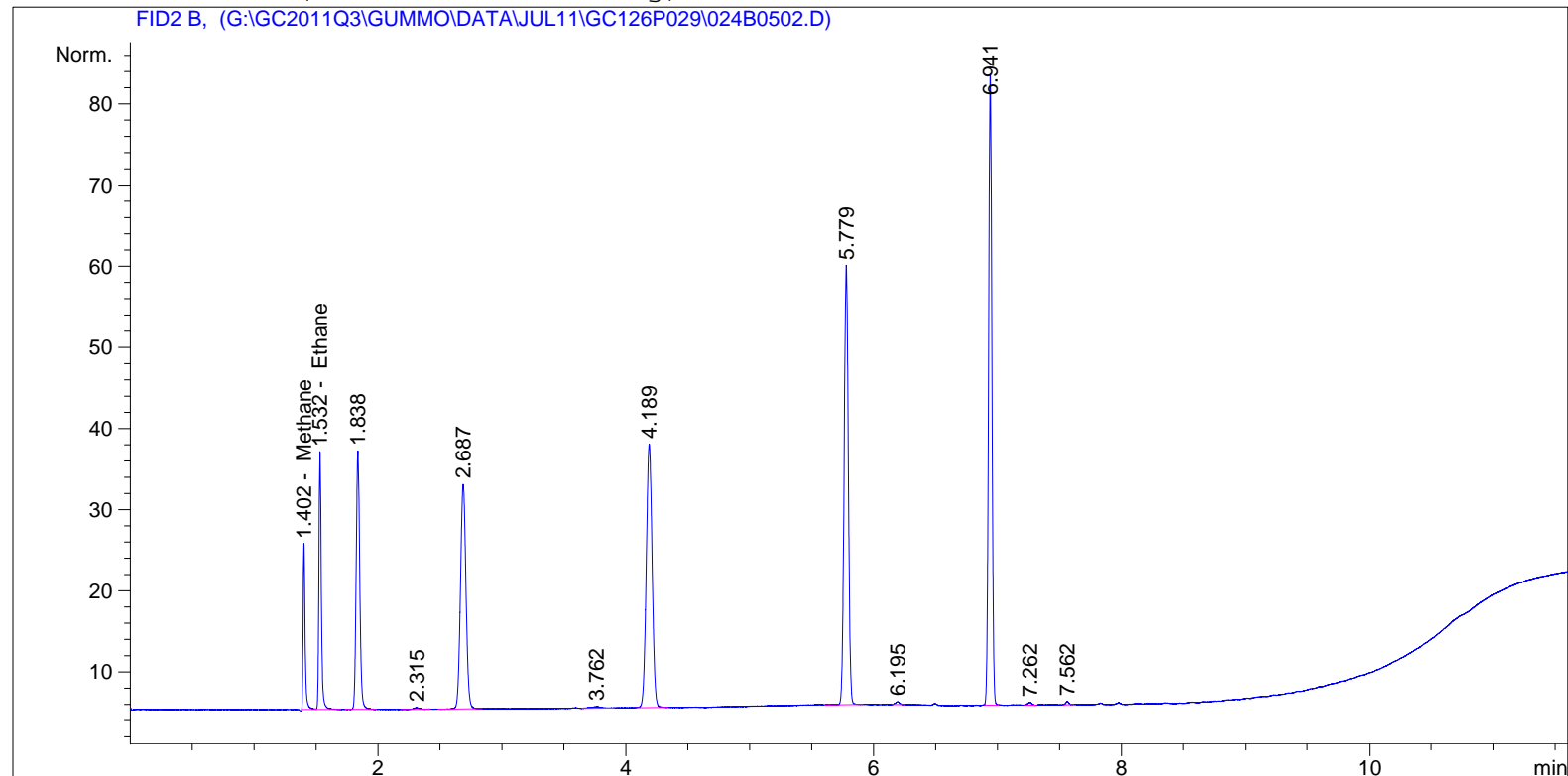
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.401	BV	23.21375	4.28253	99.41356		Methane
1.531	VB	43.06641	2.32163	99.98434		Ethane

Totals : 199.39790

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :    5
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 28-Jul-11, 15:06:51      Inj       :    2
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      : Signal
Calib. Data Modified : 8/15/2011 10:33:28 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

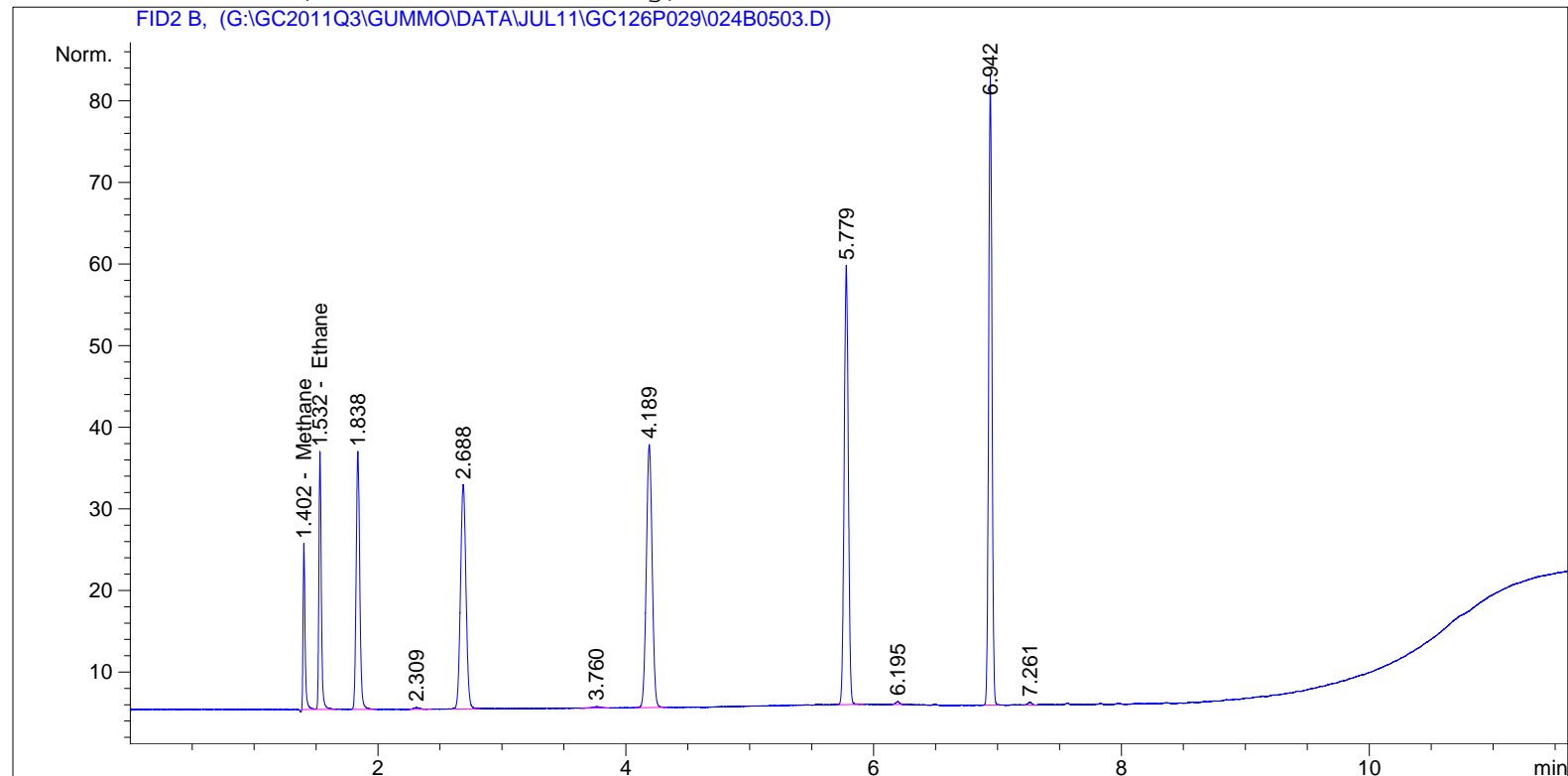
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	23.09504	4.28261	98.90709		Methane
1.532	VB	42.87719	2.32167	99.54654		Ethane

Totals : 198.45363

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :    5
Acq. Instrument : Gummo online              Location  : Vial 24
Injection Date  : 28-Jul-11, 15:26:16      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

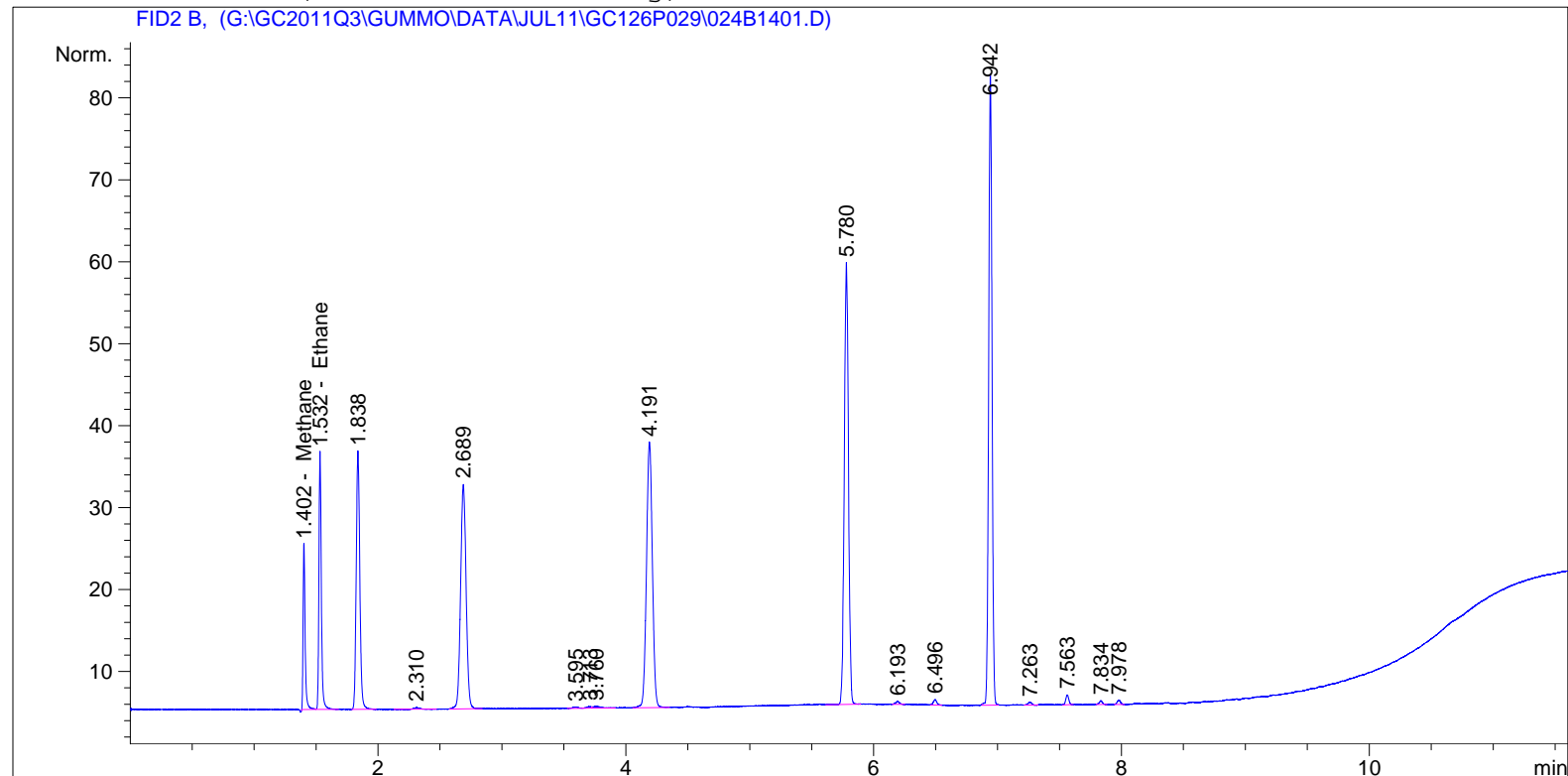
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.95006	4.28271	98.28852		Methane
1.532	VV	42.62094	2.32171	98.95364		Ethane

Totals : 197.24216

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :   14
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 28-Jul-11, 21:52:25      Inj       :    1
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

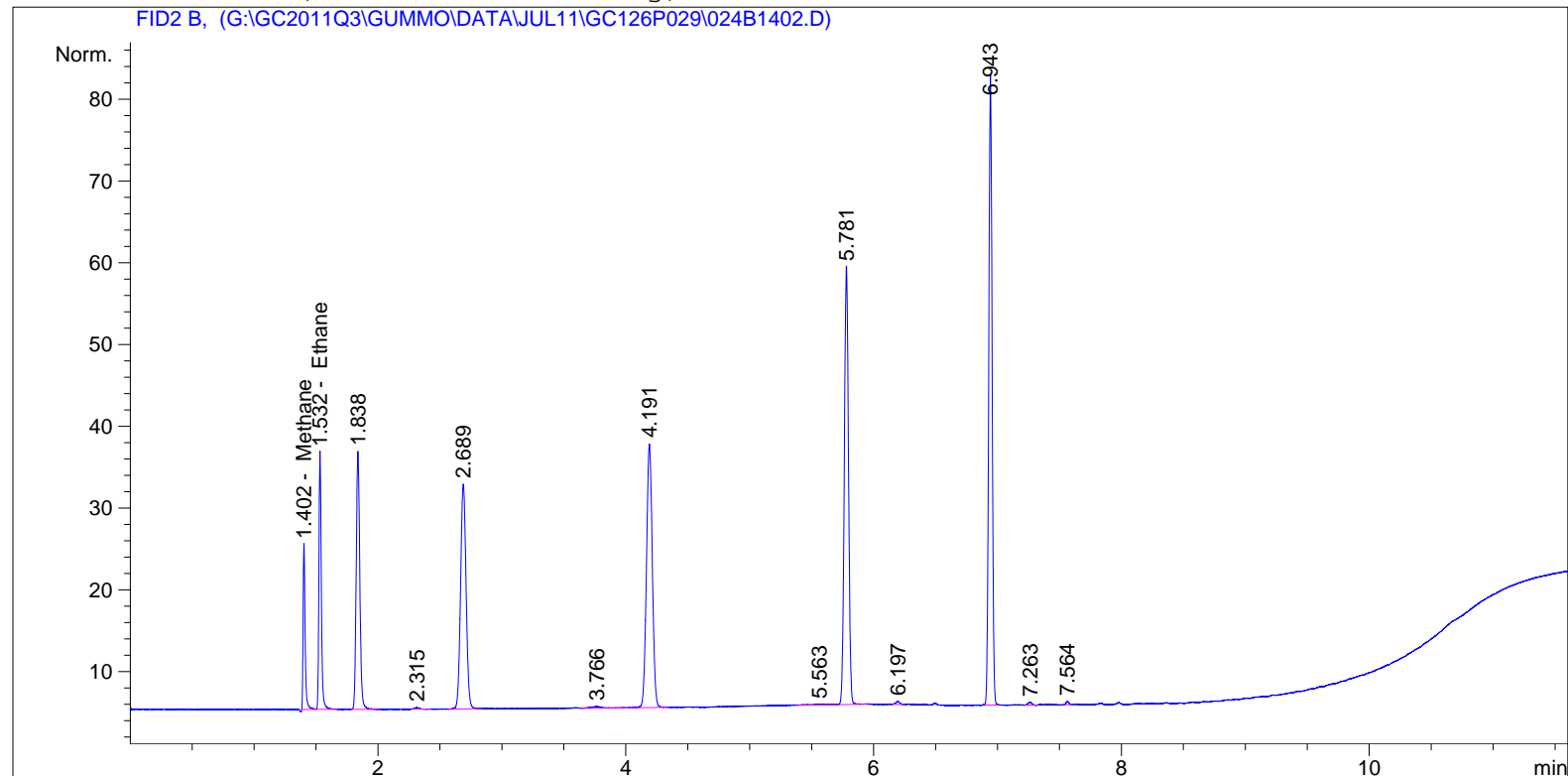
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.93207	4.28273	98.21173		Methane
1.532	VB	42.48663	2.32174	98.64290		Ethane

Totals : 196.85463

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                               Seq. Line :   14
Acq. Instrument : Gummo online                     Location  : Vial 24
Injection Date  : 28-Jul-11, 22:11:30              Inj       :    2
                                                    Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

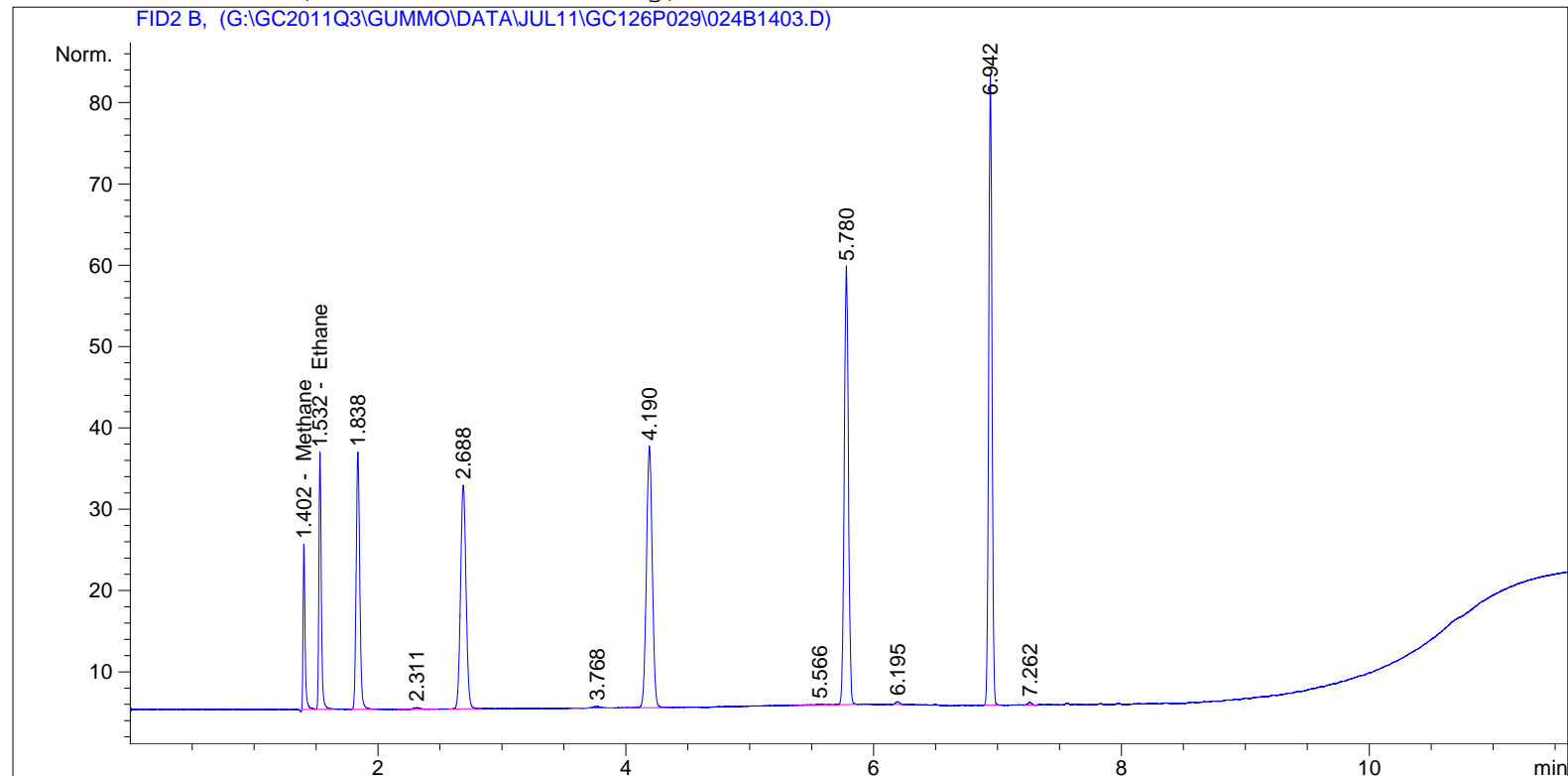
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	22.94309	4.28272	98.25878		Methane
1.532	VB	42.53199	2.32173	98.74785		Ethane

Totals : 197.00663

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : MGM                      Seq. Line :   14
Acq. Instrument : Gummo online             Location  : Vial 24
Injection Date  : 28-Jul-11, 22:30:47      Inj       :    3
                                           Inj Volume: External

Acq. Method     : G:\GC2011Q2\GUMMO\METHODS\GC114P165.M
Last changed    : 11/15/2010 3:12:59 PM by tbo
Analysis Method : G:\GC2011Q3\GUMMO\METHODS\GC114P172R_0711-81.M
Last changed    : 8/15/2011 10:27:14 AM by stg
                  (modified after loading)
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2011 10:33:28 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ppm]	Grp	Name
1.402	BV	23.01001	4.28267	98.54427		Methane
1.532	VB	42.58732	2.32172	98.87586		Ethane

Totals : 197.42014

```
=====
*** End of Report ***
=====
```

Sequence: g:\GC2011Q2\gummo\SEQUENCE\gc119p172.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 8	gc119p172 #C5 ENV(1=0,2=450)	GC114P165	4	Sample
2	Vial 8	gc119p172 #C4 ENV(1=600,2=400)	GC114P165	3	Sample
3	Vial 8	gc119p172 #C3 ENV(1=900,2=100)	GC114P165	3	Sample
4	Vial 8	gc119p172 #C2 ENV(1=950,2=50)	GC114P165	3	Sample
5	Vial 8	gc119p172 #C1 ENV(1=980,2=20)	GC114P165	3	Sample
6	Vial 8	gc119p172 #C0 ENV(1=3990,2=20)	GC114P165	8	Sample
7	Vial 8	gc119p172 #C11 ENV(1=0,3=377)	GC114P165	4	Sample
8	Vial 8	gc119p172 #C10 ENV(1=500,3=318.69)	GC114P165	3	Sample
9	Vial 8	gc119p172 #C9 ENV(1=0,3=474)	GC114P165	4	Sample
10	Vial 8	gc119p172 #C8 ENV(1=600,3=422.16)	GC114P165	3	Sample
11	Vial 8	gc119p172 #C7 ENV(1=900,3=105.54)	GC114P165	3	Sample
12	Vial 8	gc119p172 #C6 ENV(1=980,3=21.11)	GC114P165	3	Sample
13	Vial 8	gc119p172 #C14 ENV(1=0,4=492.93)	GC114P165	4	Sample
14	Vial 8	gc119p172 #C13 ENV(1=550,4=492.93)	GC114P165	3	Sample
15	Vial 8	gc119p172 #C12 ENV(1=750,4=273.85)	GC114P165	3	Sample
16	Vial 8	gc119p172 #A5 ENV(1=0,6=250)	GC114P165	4	Sample
17	Vial 8	gc119p172 #A4 ENV(1=700,6=300)	GC114P165	3	Sample
18	Vial 8	gc119p172 #A3 ENV(1=900,6=100)	GC114P165	3	Sample
19	Vial 8	gc119p172 #A2 ENV(1=980,6=20)	GC114P165	3	Sample
20	Vial 8	gc119p172 #A1 ENV(1=1980,6=20)	GC114P165	3	Sample
21	Vial 8	gc119p172 #H4 ENV(1=0,3=250)	GC114P165	4	Sample
22	Vial 8	gc119p172 #H3 ENV(1=600,3=400)	GC114P165	3	Sample
23	Vial 8	gc119p172 #H2 ENV(1=900,3=100)	GC114P165	3	Sample
24	Vial 8	gc119p172 #H1 ENV(1=980,3=20)	GC114P165	3	Sample
25	Vial 8	gc119p172 #D5 ENV(1=0,4=350)	GC114P165	4	Sample
26	Vial 8	gc119p172 #D4 ENV(1=600,4=400)	GC114P165	3	Sample
27	Vial 8	gc119p172 #D3 ENV(1=900,4=100)	GC114P165	3	Sample
28	Vial 8	gc119p172 #D2 ENV(1=960,4=40)	GC114P165	3	Sample
29	Vial 8	gc119p172 #D1 ENV(1=1010,4=20)	GC114P165	3	Sample
30	Vial 8	gc119p172 #AN5 ENV(1=0,2=350)	GC114P165	4	Sample
31	Vial 8	gc119p172 #AN4 ENV(1=600,2=400)	GC114P165	3	Sample
32	Vial 8	gc119p172 #AN3 ENV(1=900,2=100)	GC114P165	3	Sample
33	Vial 8	gc119p172 #AN2 ENV(1=960,2=40)	GC114P165	3	Sample
34	Vial 8	gc119p172 #AN1 ENV(1=1010,2=20)	GC114P165	3	Sample
35	Vial 8	gc119p172 #T5 ENV(1=0,6=350)	GC114P165	4	Sample
36	Vial 8	gc119p172 #T4 ENV(1=600,6=400)	GC114P165	3	Sample
37	Vial 8	gc119p172 #T3 ENV(1=900,6=100)	GC114P165	3	Sample
38	Vial 8	gc119p172 #T2 ENV(1=960,6=40)	GC114P165	3	Sample
39	Vial 8	gc119p172 #T1 ENV(1=1020,6=20)	GC114P165	3	Sample
40	Vial 8	gc119p172 #Br4 ENV(1=600,5=100)	GC114P165	4	Sample
41	Vial 8	gc119p172 #Br3 ENV(1=600,5=30)	GC114P165	3	Sample
42	Vial 8	gc119p172 #Br2 ENV(1=2200,5=30)	GC114P165	3	Sample
43	Vial 8	gc119p172 #Br1 ENV(1=3200,5=20)	GC114P165	3	Sample

Sequence: g:\GC2011Q2\gummo\SEQUENCE\gc119p172.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 24	gc119p172 #C5 ENV(1=0,2=450)	GC114P165	4	Sample
2	Vial 24	gc119p172 #C4 ENV(1=600,2=400)	GC114P165	3	Sample
3	Vial 24	gc119p172 #C3 ENV(1=900,2=100)	GC114P165	3	Sample
4	Vial 24	gc119p172 #C2 ENV(1=950,2=50)	GC114P165	3	Sample
5	Vial 24	gc119p172 #C1 ENV(1=980,2=20)	GC114P165	3	Sample
6	Vial 24	gc119p172 #C0 ENV(1=3990,2=20)	GC114P165	8	Sample
7	Vial 24	gc114p102 #C11 ENV(1=0,3=377)	GC114P165	4	Sample
8	Vial 24	gc114p102 #C10 ENV(1=500,3=318.69)	GC114P165	3	Sample
9	Vial 24	gc114p102 #C9 ENV(1=0,3=474)	GC114P165	4	Sample
10	Vial 24	gc114p102 #C8 ENV(1=600,3=422.16)	GC114P165	3	Sample
11	Vial 24	gc114p102 #C7 ENV(1=900,3=105.54)	GC114P165	3	Sample
12	Vial 24	gc114p102 #C6 ENV(1=980,3=21.11)	GC114P165	3	Sample
13	Vial 24	gc119p172 #C14 ENV(1=0,4=492.93)	GC114P165	4	Sample
14	Vial 24	gc119p172 #C13 ENV(1=550,4=492.93)	GC114P165	3	Sample
15	Vial 24	gc119p172 #C12 ENV(1=750,4=273.85)	GC114P165	3	Sample
16	Vial 24	gc119p172 #A5 ENV(1=0,6=250)	GC114P165	4	Sample
17	Vial 24	gc119p172 #A4 ENV(1=700,6=300)	GC114P165	3	Sample
18	Vial 24	gc119p172 #A3 ENV(1=900,6=100)	GC114P165	3	Sample
19	Vial 24	gc119p172 #A2 ENV(1=980,6=20)	GC114P165	3	Sample
20	Vial 24	gc119p172 #A1 ENV(1=1980,6=20)	GC114P165	3	Sample
21	Vial 24	gc119p172 #H4 ENV(1=0,3=250)	GC114P165	4	Sample
22	Vial 24	gc119p172 #H3 ENV(1=600,3=400)	GC114P165	3	Sample
23	Vial 24	gc119p172 #H2 ENV(1=900,3=100)	GC114P165	3	Sample
24	Vial 24	gc119p172 #H1 ENV(1=980,3=20)	GC114P165	3	Sample
25	Vial 24	gc119p172 #D5 ENV(1=0,4=350)	GC114P165	4	Sample
26	Vial 24	gc119p172 #D4 ENV(1=600,4=400)	GC114P165	3	Sample
27	Vial 24	gc119p172 #D3 ENV(1=900,4=100)	GC114P165	3	Sample
28	Vial 24	gc119p172 #D2 ENV(1=960,4=40)	GC114P165	3	Sample
29	Vial 24	gc119p172 #D1 ENV(1=1010,4=20)	GC114P165	3	Sample
30	Vial 24	gc119p172 #AN5 ENV(1=0,2=350)	GC114P165	4	Sample
31	Vial 24	gc119p172 #AN4 ENV(1=600,2=400)	GC114P165	3	Sample
32	Vial 24	gc119p172 #AN3 ENV(1=900,2=100)	GC114P165	3	Sample
33	Vial 24	gc119p172 #AN2 ENV(1=960,2=40)	GC114P165	3	Sample
34	Vial 24	gc119p172 #AN1 ENV(1=1010,2=20)	GC114P165	3	Sample
35	Vial 24	gc119p172 #T5 ENV(1=0,6=350)	GC114P165	4	Sample
36	Vial 24	gc119p172 #T4 ENV(1=600,6=400)	GC114P165	3	Sample
37	Vial 24	gc119p172 #T3 ENV(1=900,6=100)	GC114P165	3	Sample
38	Vial 24	gc119p172 #T2 ENV(1=960,6=40)	GC114P165	3	Sample
39	Vial 24	gc119p172 #T1 ENV(1=1020,6=20)	GC114P165	3	Sample
40	Vial 24	gc119p172 #Br4 ENV(1=600,5=100)	GC114P165	4	Sample
41	Vial 24	gc119p172 #Br3 ENV(1=600,5=30)	GC114P165	3	Sample
42	Vial 24	gc119p172 #Br2 ENV(1=2200,5=30)	GC114P165	3	Sample
43	Vial 24	gc119p172 #Br1 ENV(1=3200,5=20)	GC114P165	3	Sample

Sequence: I:\gc2011q2\Gummo\sequence\gc119p176.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 8	gc119p176 #I5 ENV(1=0,4=350)	GC114P165	4	Sample
2	Vial 8	gc119p176 #I4 ENV(1=600,4=400)	GC114P165	3	Sample
3	Vial 8	gc119p176 #I3 ENV(1=900,4=100)	GC114P165	3	Sample
4	Vial 8	gc119p176 #I2 ENV(1=960,4=40)	GC114P165	3	Sample
5	Vial 8	gc119p176 #I1 ENV(1=1010,4=20)	GC114P165	3	Sample
6	Vial 8	gc119p176 #I0 ENV(1=1980,4=20)	GC114P165	9	Sample
7	Vial 1	Pause	PAUSE	1	Sample
8	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	4	Sample
9	Vial 8	gc119p172 #AN4 ENV(1=600,5=400)	GC114P165	4	Sample
10	Vial 1	Pause	PAUSE	1	Sample
11	Vial 2	NA	GC114P165	3	Sample
12	Vial 7	NA	GC114P165	3	Sample
13	Vial 1	Pause	PAUSE	1	Sample
14	Vial 8	gc119p176 #AN0 ENV(1=1980,5=20)	GC114P165	4	Sample
15	Vial 8	gc119p176 #I4 ENV(1=600,4=400)	GC114P165	3	Sample
16	Vial 8	gc119p176 #I4 ENV(1=600,4=400)	GC114P165	3	Sample
17	Vial 8	gc119p176 #I6 ENV(1=4980,4=20)	GC114P165	9	Sample
18	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
19	Vial 1	Pause	PAUSE	1	Sample
20	Vial 8	gc119p172 #AN4 ENV(1=600,5=400)	GC114P165	4	Sample
21	Vial 8	gc119p176 #AN0 ENV(1=1980,5=20)	GC114P165	4	Sample

Sequence: I:\gc2011q2\Gummo\sequence\gc119p176.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 24	gc119p176 #I5 ENV(1=0,4=350)	114P172R	4	Sample
2	Vial 24	gc119p176 #I4 ENV(1=600,4=400)	114P172R	3	Sample
3	Vial 24	gc119p176 #I3 ENV(1=900,4=100)	114P172R	3	Sample
4	Vial 24	gc119p176 #I2 ENV(1=960,4=40)	114P172R	3	Sample
5	Vial 24	gc119p176 #I1 ENV(1=1010,4=20)	114P172R	3	Sample
6	Vial 24	gc119p176 #I0 ENV(1=1980,4=20)	114P172R	9	Sample
7	Vial 17	Pause	PAUSE	1	Sample
8	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	114P172R	4	Sample
9	Vial 24	gc119p172 #AN4 ENV(1=600,5=400)	114P172R	4	Sample
10	Vial 17	Pause	PAUSE	1	Sample
11	Vial 18	1-CR3 Outlet 0511-142	114P172R	3	Sample
12	Vial 23	2-CR3 Outlet 0511-142	114P172R	3	Sample
13	Vial 17	Pause	PAUSE	1	Sample
14	Vial 24	gc119p176 #AN0 ENV(1=1980,5=20)	114P176R	4	Sample
15	Vial 24	gc119p176 #I4 ENV(1=600,4=400)	114P172R	3	Sample
16	Vial 24	gc119p176 #I4 ENV(1=600,4=400)	114P172R	3	Sample
17	Vial 24	gc119p176 #I6 ENV(1=4980,4=20)	114P172R	9	Sample
18	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	114P172R	3	Sample
19	Vial 17	Pause	PAUSE	1	Sample
20	Vial 24	gc119p172 #AN4 ENV(1=600,5=400)	114P172R	4	Sample
21	Vial 24	gc119p176 #AN0 ENV(1=1980,5=20)	114P176R	4	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p027.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 2	NA	GC114P165	3	Sample
2	Vial 10	gc119p176 #I4 LCS	GC114P165	3	Sample
3	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
4	Vial 1	Pause	PAUSE	1	Sample
5	Vial 3	NA	GC114P165	3	Sample
6	Vial 1	Pause	PAUSE	1	Sample
7	Vial 2	NA	GC114P165	3	Sample
8	Vial 3	NA	GC114P165	3	Sample
9	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
10	Vial 3	NA	GC114P165	3	Sample
11	Vial 4	NA	GC114P165	3	Sample
12	Vial 5	NA	GC114P165	3	Sample
13	Vial 1	N2 Blank	GC114P165	3	Sample
14	Vial 10	gc119p176 #I4 LCS	GC114P165	3	Sample
15	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
16	Vial 6	NA	GC114P165	3	Sample
17	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
18	Vial 8	gc119p172 #H1 ENV(1=980,4=20)	GC114P165	9	Sample
19	Vial 1	Pause	PAUSE	1	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p027.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 18	R1 S&R 0611-49	I4P176R_ICR	3	Sample
2	Vial 26	gc119p176 #I4 LCS	I4P176R_ICR	3	Sample
3	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
4	Vial 17	Pause	PAUSE	1	Sample
5	Vial 19	U-12 CWTS R2 S&R 0611-176	I4P176R_ICR	3	Sample
6	Vial 17	Pause	PAUSE	1	Sample
7	Vial 18	BP-WV-A4-M18-Bag 0711-08	I4P176R_ICR	3	Sample
8	Vial 19	T1R1 M18 Bag 0711-81	I4P176R_ICR	3	Sample
9	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
10	Vial 19	T1R1 M18 Bag 0711-81	I4P176R_ICR	3	Sample
11	Vial 20	T1R2 M18 Bag 0711-81	I4P176R_ICR	3	Sample
12	Vial 21	T1R3 M18 Bag 0711-81	I4P176R_ICR	3	Sample
13	Vial 17	N2 Blank	I4P176R_ICR	3	Sample
14	Vial 26	gc119p176 #I4 LCS	I4P176R_ICR	3	Sample
15	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
16	Vial 22	gc119p172 #C5 LCS	I4P176R_ICR	3	Sample
17	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
18	Vial 24	gc119p172 #H1 ENV(1=980,4=20)	I4P176R_ICR	9	Sample
19	Vial 17	Pause	PAUSE	1	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p029.txt

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 2	NA	GC114P165	3	Sample
2	Vial 3	NA	GC114P165	3	Sample
3	Vial 1	Pause	PAUSE	1	Sample
4	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
5	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
6	Vial 1	Pause	PAUSE	1	Sample
7	Vial 2	NA	GC114P165	3	Sample
8	Vial 3	NA	GC114P165	3	Sample
9	Vial 4	NA	GC114P165	3	Sample
10	Vial 5	NA	GC114P165	3	Sample
11	Vial 6	NA	GC114P165	3	Sample
12	Vial 7	NA	GC114P165	3	Sample
13	Vial 8	gc119p176 #I4 ENV(1=600,3=400)	GC114P165	3	Sample
14	Vial 8	gc119p172 #C5 ENV(1=0,2=350)	GC114P165	3	Sample
15	Vial 8	gc126p029 #H1 ENV(1=1240,5=10)	GC114P165	9	Sample
16	Vial 8	gc119p176 #H4 ENV(1=750,4=250)	GC114P165	3	Sample
17	Vial 8	gc126p029 #H4 ENV(1=600,5=400)	GC114P165	3	Sample
18	Vial 8	gc126p024 #DM3 ENV(1=900,6=100.29)	GC114P165	3	Sample
19	Vial 9	Train 4-R2-Bag S&R 0711-113	GC114P165	3	Sample
20	Vial 8	gc126p024 #DM3 ENV(1=900,6=100.29)	GC114P165	3	Sample
21	Vial 1	Pause	PAUSE	1	Sample

Sequence: G:\GC2011Q2\gummo\SEQUENCE\gc126p029.txt

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 18	EM-R1-Bag-DCU S&R 0711-64	I4P176R_ICR	3	Sample
2	Vial 19	EM-R1-Bag-DCU S&R * 31 0711-64	I4P176R_ICR	3	Sample
3	Vial 17	Pause	PAUSE	1	Sample
4	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
5	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
6	Vial 17	Pause	PAUSE	1	Sample
7	Vial 18	EM-R1-Bag-DCU S&R 0711-64	I4P176R_ICR	3	Sample
8	Vial 19	EM-R1-Bag-DCU S&R 0711-64	I4P176R_ICR	3	Sample
9	Vial 20	OutDrumVaporPhase-TC1-103 0711-77	I4P176R_ICR	3	Sample
10	Vial 21	OutStkVent-TC1-102 0711-77	I4P176R_ICR	3	Sample
11	Vial 22	OutStkVent-TC1-103 0711-77	I4P176R_ICR	3	Sample
12	Vial 23	T1R1 M18 Bag S&R 0711-81	I4P176R_ICR	3	Sample
13	Vial 24	gc119p176 #I4 ENV(1=600,3=400)	I4P176R_ICR	3	Sample
14	Vial 24	gc119p172 #C5 ENV(1=0,2=350)	I4P176R_ICR	3	Sample
15	Vial 24	gc126p029 #H1 ENV(1=1240,5=10)	I4P176R_ICR	9	Sample
16	Vial 24	gc119p176 #H4 ENV(1=750,4=250)	I4P176R_ICR	3	Sample
17	Vial 24	gc126p029 #H4 ENV(1=600,5=400)	I4P176R_ICR	3	Sample
18	Vial 24	gc126p024 #DM3 ENV(1=900,6=100.29)	I4P176R_ICR	3	Sample
19	Vial 25	NA	I4P176R_ICR	3	Sample
20	Vial 24	gc126p024 #DM3 ENV(1=900,6=100.29)	I4P176R_ICR	3	Sample
21	Vial 17	Pause	PAUSE	1	Sample

=====

6890 GC METHOD

=====

OVEN

Initial temp:	35 'C (On)	Maximum temp:	250 'C
Initial time:	2.20 min	Equilibration time:	0.20 min
Ramps:			
#	Rate	Final temp	Final time
1	15.00	70	0.07
2	30.00	250	1.00
3	0.0(Off)		
Post temp:	50 'C		
Post time:	0.00 min		
Run time:	11.60 min		

FRONT INLET (SPLIT/SPLITLESS)

Mode: Split
Initial temp: 160 'C (On)
Pressure: 5.00 psi (On)
Split ratio: 5:1
Split flow: 10.6 mL/min
Total flow: 18.9 mL/min
Gas saver: Off
Gas type: Hydrogen

BACK INLET (SPLIT/SPLITLESS)

Mode: Split
Initial temp: 160 'C (On)
Pressure: 5.12 psi (On)
Split ratio: 5:1
Split flow: 10.3 mL/min
Total flow: 18.7 mL/min
Gas saver: Off
Gas type: Hydrogen

COLUMN 1

Capillary Column
Model Number: Restek 10970
Rtx-624 30m x 0.32mm x 1.8um SN 92682
Max temperature: 240 'C
Nominal length: 30.0 m
Nominal diameter: 320.00 um
Nominal film thickness: 1.80 um
Mode: constant flow
Initial flow: 2.1 mL/min
Nominal init pressure: 5.00 psi
Average velocity: 40 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

COLUMN 2

Capillary Column
Model Number: Restek 10198
Rtx-1 30m x 0.32mm x 4.0um
Max temperature: 280 'C
Nominal length: 30.0 m
Nominal diameter: 320.00 um
Nominal film thickness: 4.00 um
Mode: constant flow
Initial flow: 2.1 mL/min
Nominal init pressure: 5.12 psi
Average velocity: 39 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

FRONT DETECTOR (FID)

Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant makeup flow
Makeup flow: 45.0 mL/min (On)
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

BACK DETECTOR (FID)

Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant makeup flow
Makeup flow: 45.0 mL/min (On)
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

SIGNAL 1

Data rate: 50 Hz
Type: front detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

SIGNAL 2

Data rate: 50 Hz
Type: back detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 1

Derive from front detector

COLUMN COMP 2

Derive from back detector

THERMAL AUX 1

Use: Valve Box Heater

Description:

Initial temp: 50 'C (Off)

Initial time: 0.00 min

#	Rate	Final temp	Final time
1	0.0(Off)		

VALVES

Valve 1 Gas Sampling

Description:

Loop Volume: 0.250 mL

Load Time: 0.50 min

Inject Time: 0.50 min

Inlet: Front Inlet

Valve 2 Gas Sampling

Description:

Loop Volume: 0.250 mL

Load Time: 0.50 min

Inject Time: 0.50 min

Inlet: Back Inlet

Valve 7 Multiposition 1

Description:

BCD input: inverted

Switch Time: 1.0 sec

POST RUN

Post Time: 0.00 min

TIME TABLE

Time	Specifier
0.10	

Parameter & Setpoint
Multi-Valve Position:

1

THE LINDE GROUP

Linde

SHIPPED TO: Enthalpy Analytical, Inc
2202 Ellis Road
Durham, NC 27703-5521

PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#:	108129258	Cylinder Size:	2 (9" X 51")
Production#:	1178674	Cylinder #:	9166803
Certification Date:	May-20-2011	Cylinder Pressure:	500 psig
P.O.#:	C05031101GAT	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	44 Liter
Material#:	24090232	Cylinder Material:	Steel
Traceability:	NIST by weight	Gas Volume:	1500 Liter
Expiration Date:	May-20-2012	Blend Tolerance:	5% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	2% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,3-Butadiene	106-99-0	250 ppm	257 ppm
Acrolein	107-02-8	250 ppm	257 ppm
Acetone	67-64-1	250 ppm	257 ppm
Pentane	109-66-0	250 ppm	257 ppm
Acrylonitrile	107-13-1	250 ppm	256 ppm
Carbon Disulfide	75-15-0	250 ppm	258 ppm
Methylene Chloride	75-09-2	250 ppm	257 ppm
Hexane	110-54-3	250 ppm	257 ppm
Benzene	71-43-2	250 ppm	256 ppm
Trichloroethene	79-01-6	250 ppm	256 ppm
Toluene	108-88-3	250 ppm	256 ppm
1,2-Dibromoethane	106-93-4	250 ppm	257 ppm
Tetrachloroethene	127-18-4	250 ppm	257 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST:

Lou Lorenzetti

DATE: May-20-2011



**MATHESON
TRI-GAS**

ask...The Gas Professionals™

Certified Mixture Grade

Matheson Tri-Gas Inc.

6874 S. Main Street
Morrow GA 30260

Phone: 770-961 4606

Fax: 770-968 1268

TO: Enthalpy Analytical
2202 Ellis Rd Suite A
Durham, NC 27703

TO AVOID BACKFILL, CYLINDER PRESSURE MUST BE
GREATER THAN PROCESS PRESSURE

PHONE:
FAX:

SALES ORDER NUMBER: 566239
P.O. NUMBER: CO4281105GAT
LOT NUMBER: 1051619101

PRODUCT:

CYLINDER NUMBER: SX48676
SIZE: 1R
CGA/DISS OUTLET: 350
CONTENT: 138.6 cu. ft.
PRESSURE: 2000 psig

FILL DATE: May 2, 2011
CERTIFICATION DATE: May 2, 2011
EXPIRATION DATE: May 2, 2012

COMPONENT	REQUESTED CONCENTRATION	BLEND TOLERANCE (+/-)	CERTIFIED CONCENTRATION	CERTIFICATION ACCURACY
Acetonitrile	250 ppm	10 %	249.4 ppm	+/- 2%
Nitrogen, Balance				

TRACEABLE TO REFERENCE STANDARD SOURCE/NUMBER:
TRACEABLE TO NIST TRACEABLE WEIGHT CERTIFICATE: 513987

SPECIAL INFORMATION / ADDITIONAL COMMENTS

The product listed above and furnished under the referenced purchase order has been tested and found to contain the component concentration listed above. All values in mole/mole basis gas phase unless otherwise indicated. Matheson Tri-Gas Inc. warrants that the above product(s) conform at the time of shipment to the above description. Matheson Tri-Gas Inc. liability does not exceed the value of the product purchased.

Derek Stuck

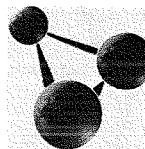
ANALYST
Pace Analytical
FSD 1108-200


SIGNATURE

May 2, 2011

DATE SIGNED
FHR Pine Bend LLC
Page B-1118 of 1576

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

Enthalpy Analytical, Inc.
2202 Ellis Road, Suite A
Durham, NC 27703-5518

Tel: (919) 850-4392

Cylinder Number SG9127449BAL
Cylinder Size/CGA: AL150/350
Fill Pressure: 1400 PSIA
Gas Volume: 2634 liters
Date of Mfg: 3/26/09
Expiration Date: 3/26/12

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00127703NC	Pick up	032609-001	CMD030909CJCB	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Methane	1 %	1.002 % +/- 0.02 %	Gravimetric Master Gas
Ethane	1 %	0.999 % +/- 0.02 %	
Propane	1 %	1.002 % +/- 0.02 %	
n-Butane	1 %	0.999 % +/- 0.02 %	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/-2%

Analytical Tolerance: +/-2%

Traceability: NIST by weight set / Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.

Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Authorized Signature:

Joseph A. Ernst

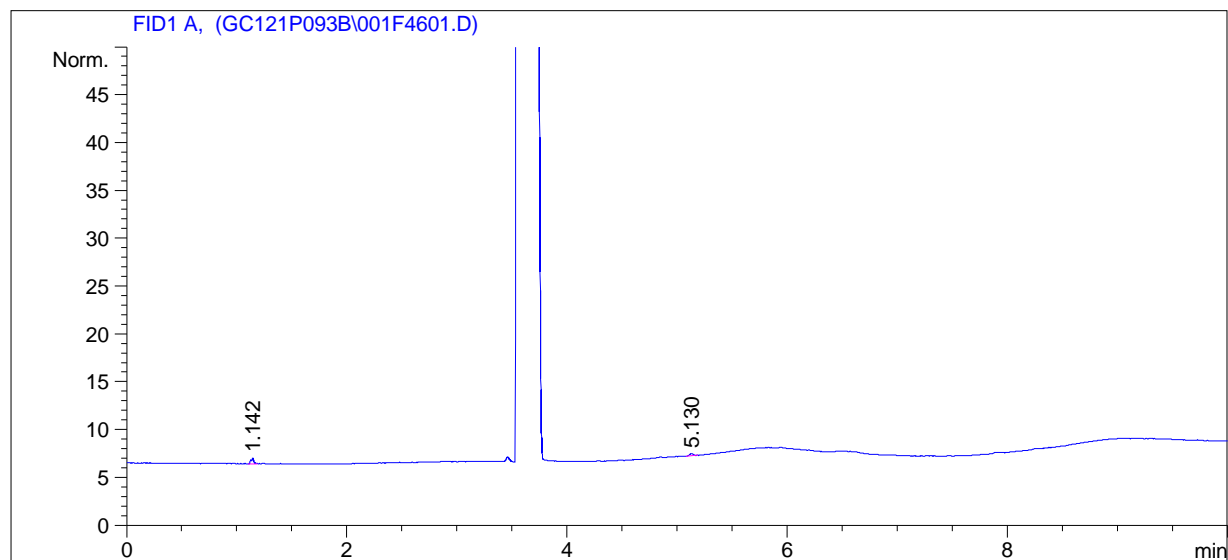
*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Sample Chromatograms

Sample Name: M18 T1R1 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                      Seq. Line :   46
Acq. Instrument : Lucy                    Location  : Vial 1
Injection Date  : 8/29/2011 10:46:28 AM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R1 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

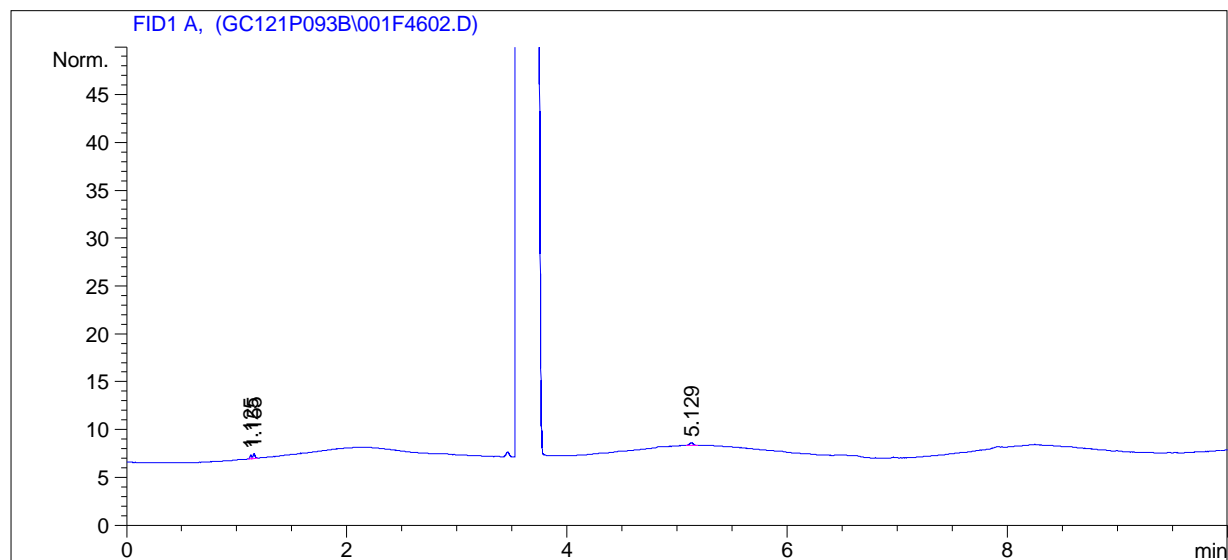
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   46
Acq. Instrument : Lucy                             Location  : Vial 1
Injection Date  : 8/29/2011 11:04:17 AM             Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R1 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
 =====
 Area Percent Report
 =====
 =====

Sorted By : Signal
 Calib. Data Modified : 9/1/2011 10:06:38 PM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

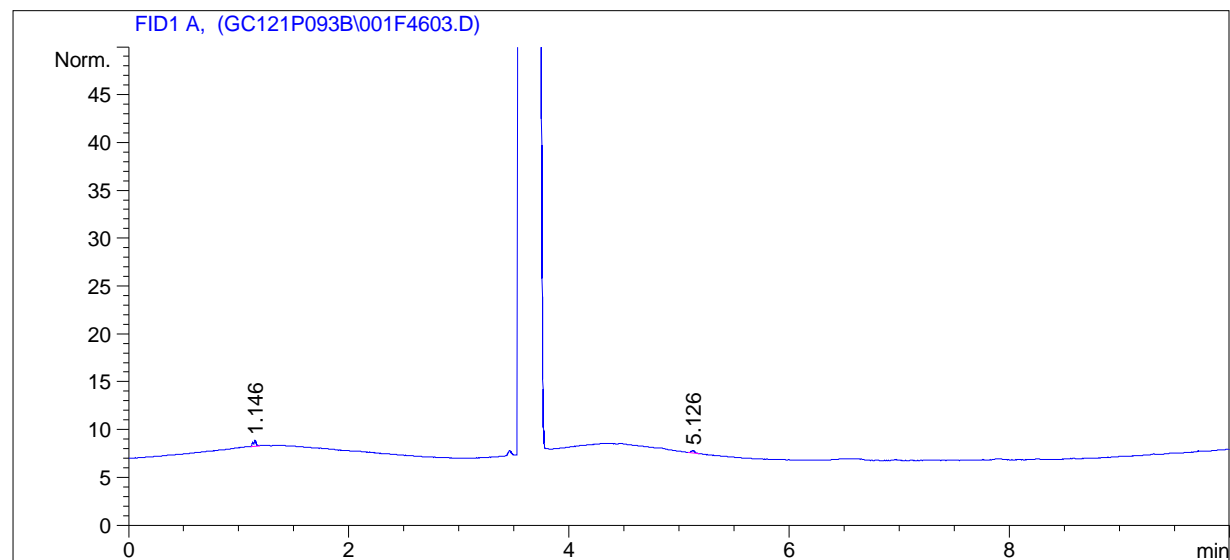
Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
 *** End of Report ***

```
=====
Acq. Operator   : SJE                               Seq. Line :   46
Acq. Instrument : Lucy                               Location  : Vial 1
Injection Date  : 8/29/2011 11:22:13 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R1 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

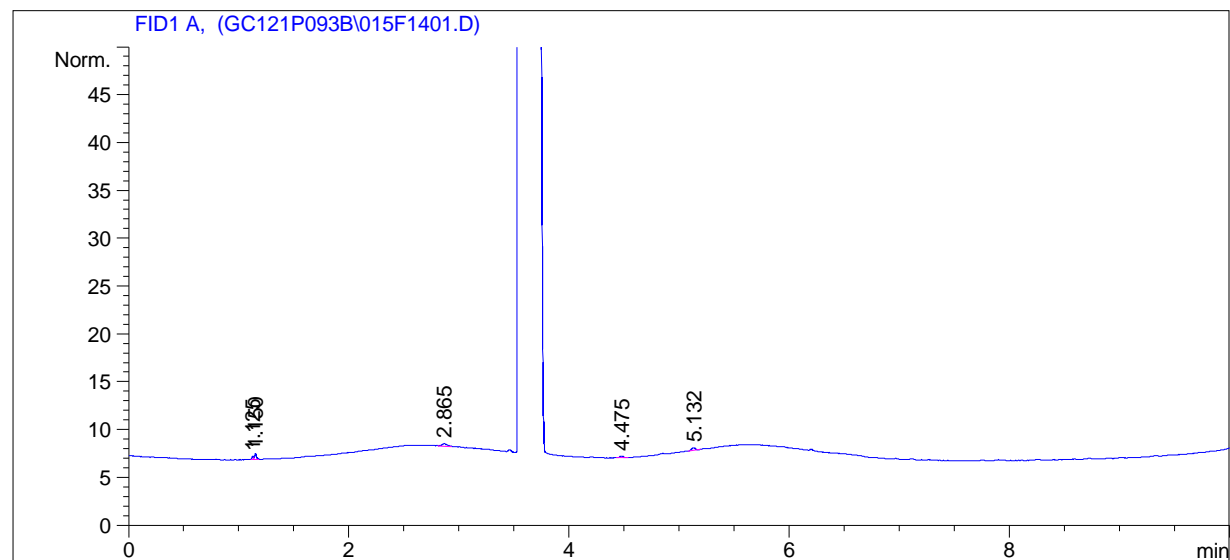
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   14
Acq. Instrument : Lucy                               Location  : Vial 15
Injection Date  : 8/28/2011 6:10:10 AM                Inj       :    1
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

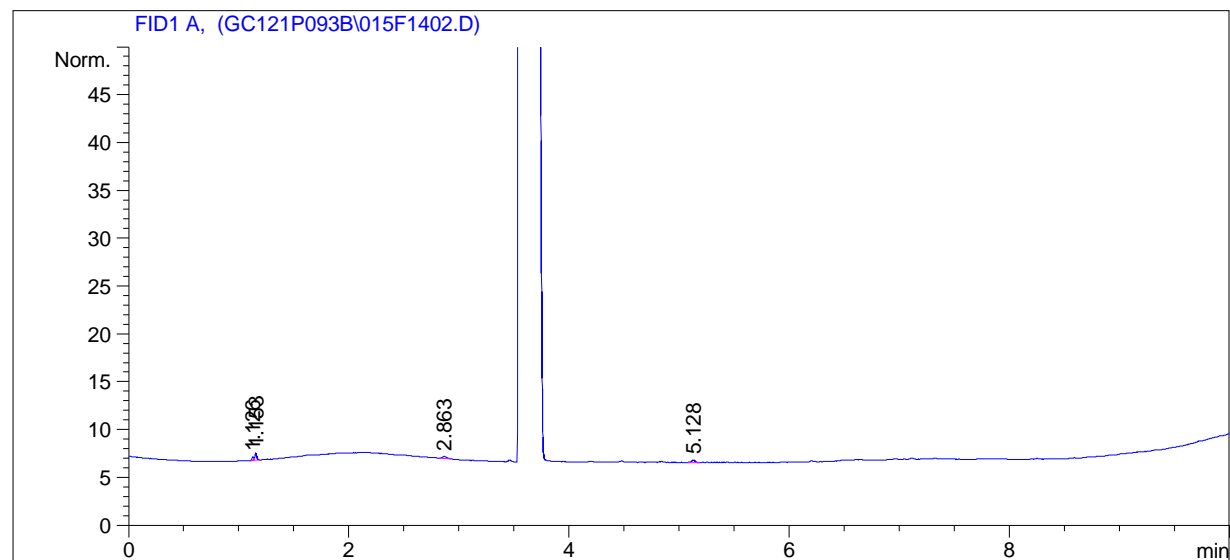
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   14
Acq. Instrument : Lucy                               Location  : Vial 15
Injection Date  : 8/28/2011 6:28:00 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

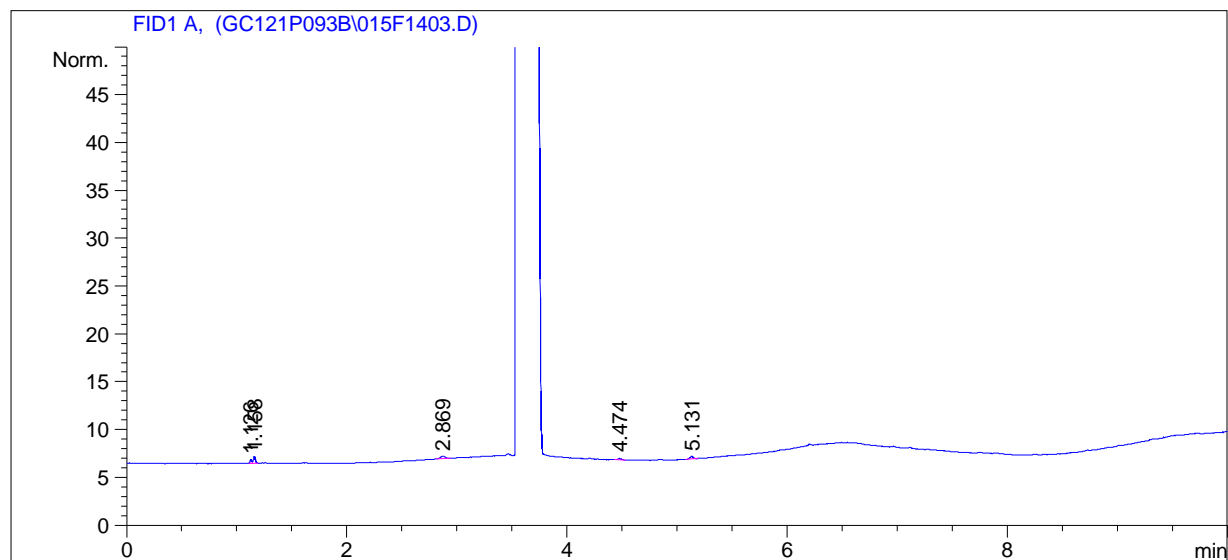
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   14
Acq. Instrument : Lucy                             Location  : Vial 15
Injection Date  : 8/28/2011 6:45:51 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

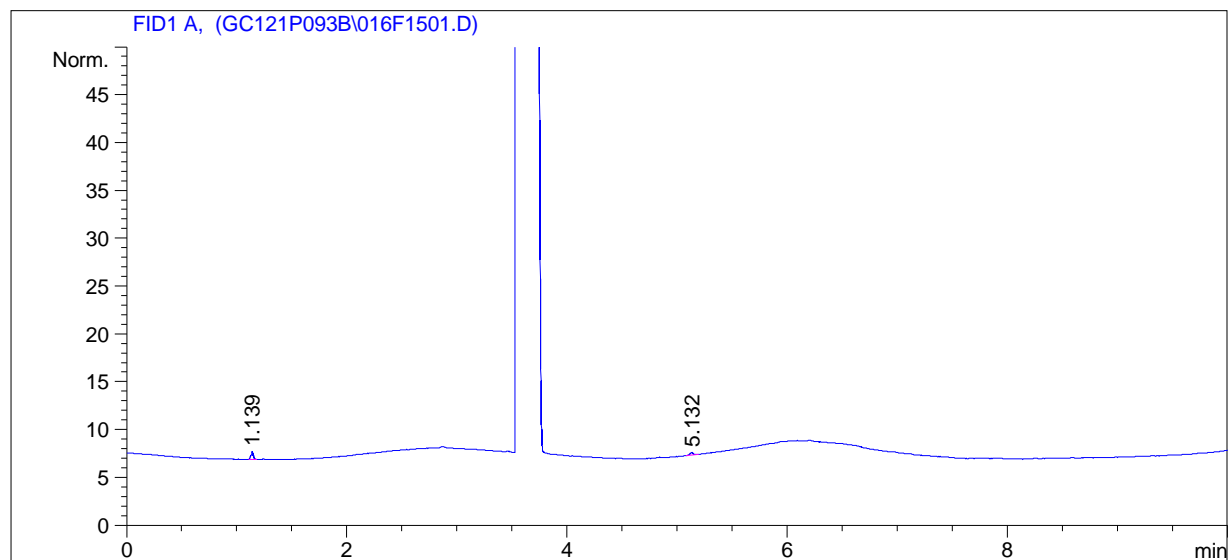
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   15
Acq. Instrument : Lucy                               Location  : Vial 16
Injection Date  : 8/28/2011 7:03:41 AM                Inj       :    1
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R1 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

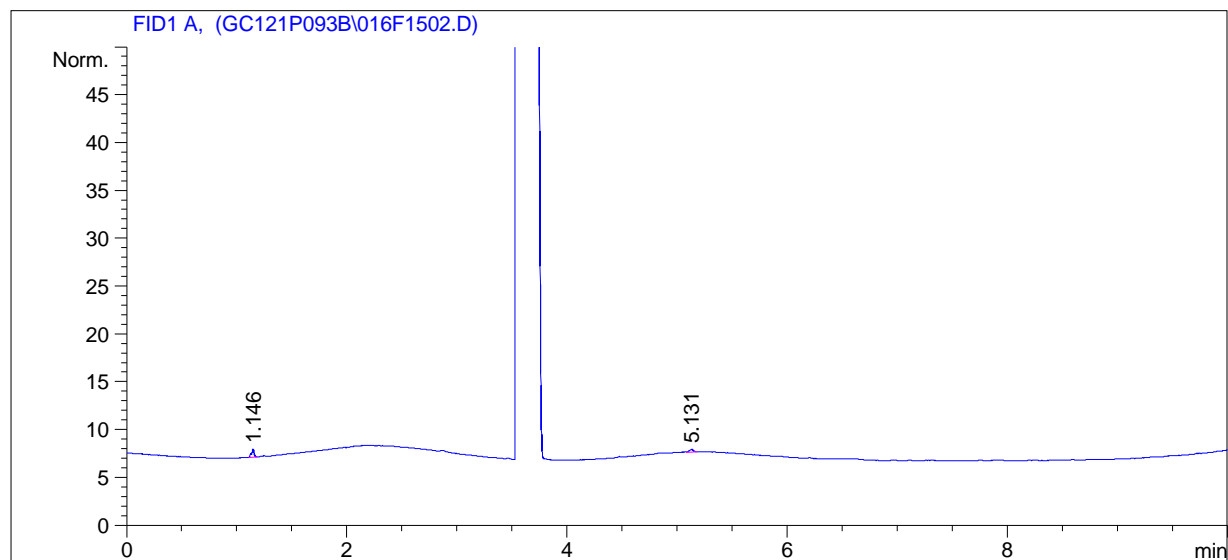
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   15
Acq. Instrument : Lucy                             Location  : Vial 16
Injection Date  : 8/28/2011 7:21:32 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

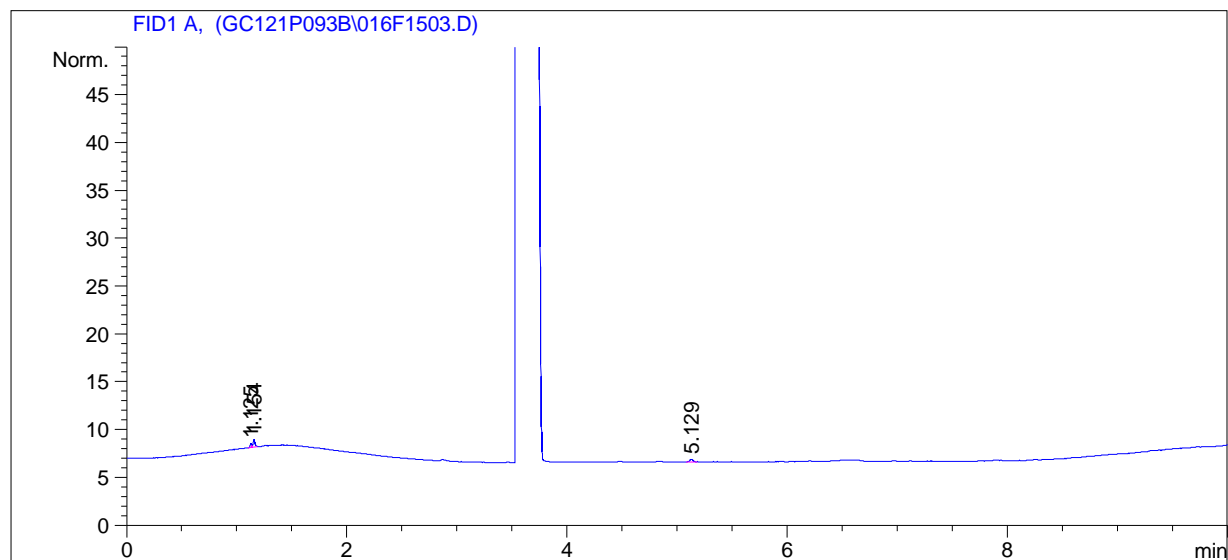
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   15
Acq. Instrument : Lucy                               Location  : Vial 16
Injection Date  : 8/28/2011 7:39:24 AM                Inj       :    3
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

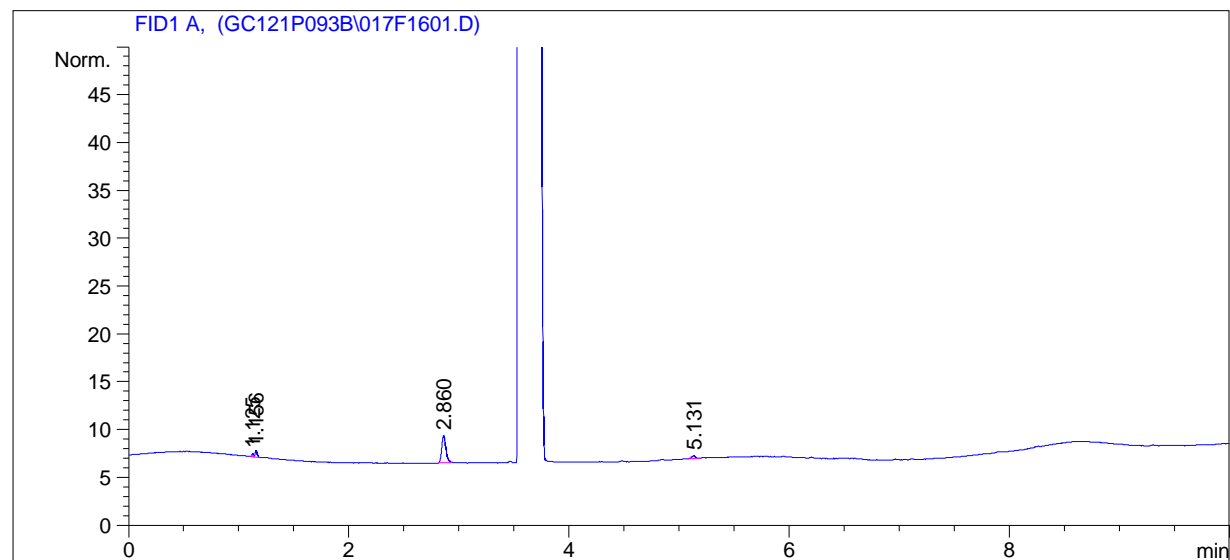
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   16
Acq. Instrument : Lucy                             Location  : Vial 17
Injection Date  : 8/28/2011 7:57:16 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

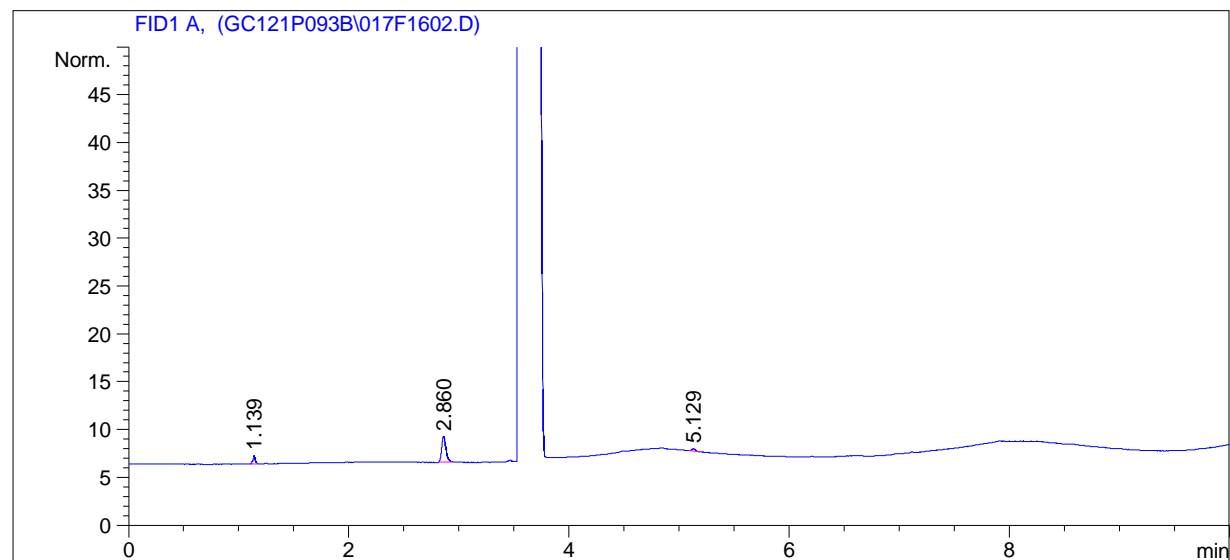
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   16
Acq. Instrument : Lucy                             Location  : Vial 17
Injection Date  : 8/28/2011 8:15:11 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

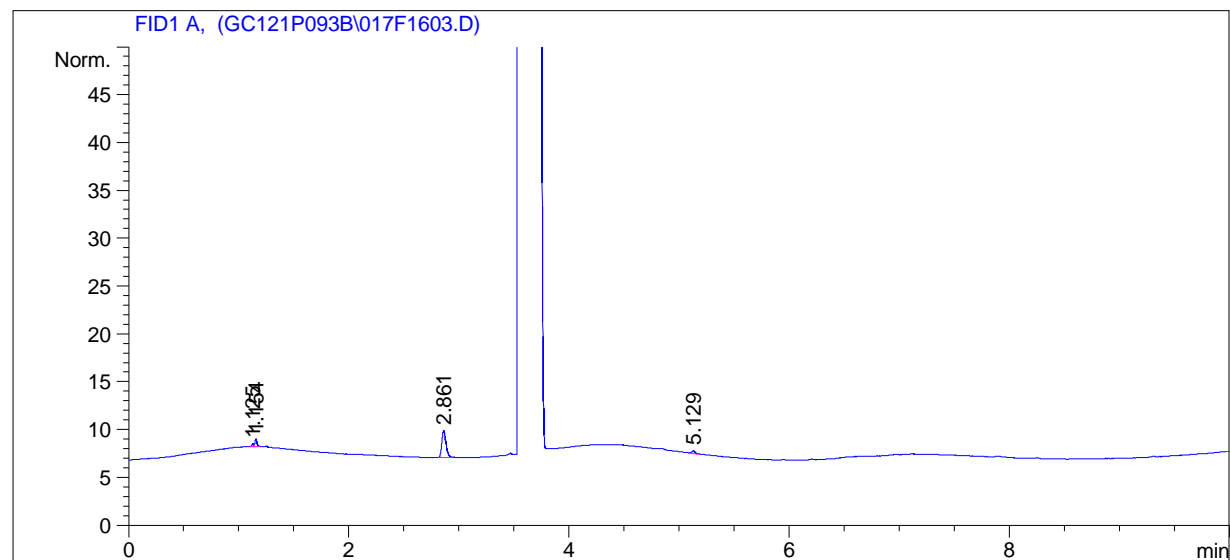
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   16
Acq. Instrument : Lucy                             Location  : Vial 17
Injection Date  : 8/28/2011 8:33:06 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

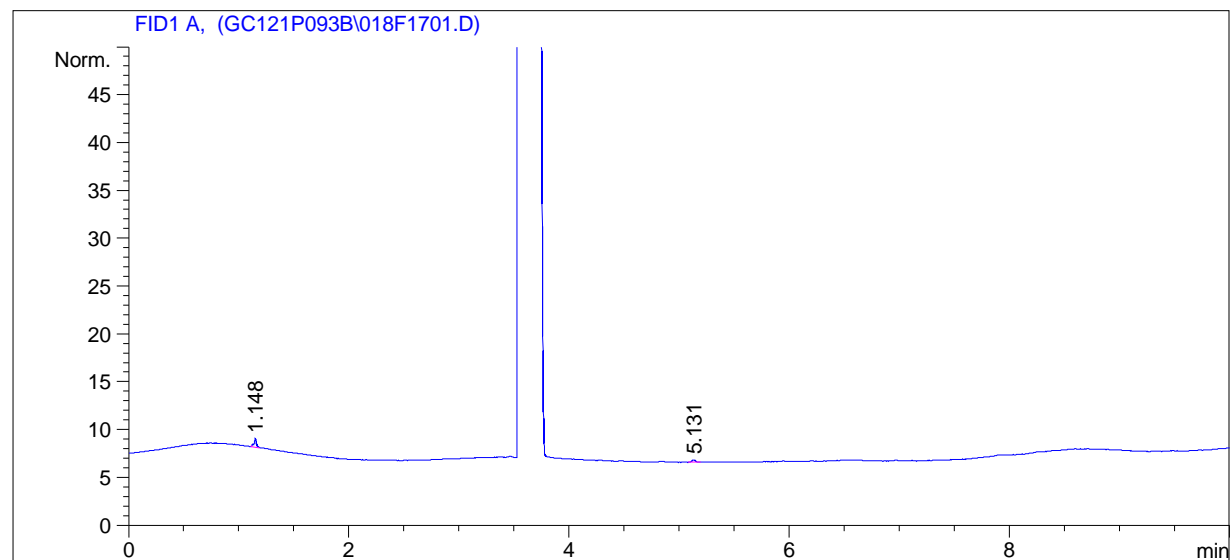
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   17
Acq. Instrument : Lucy                             Location  : Vial 18
Injection Date  : 8/28/2011 8:50:57 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

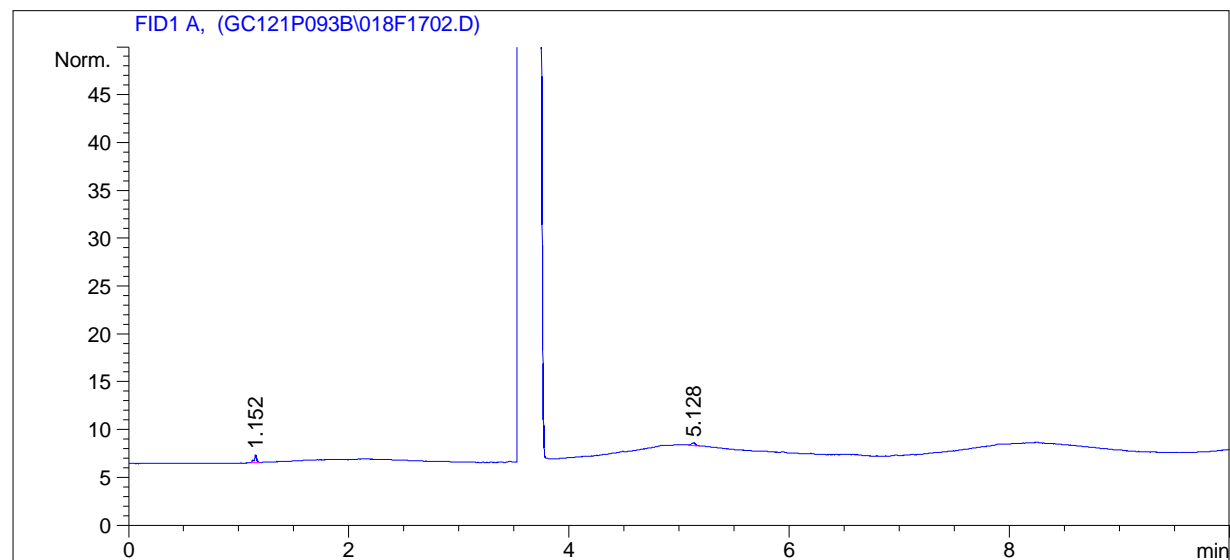
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   17
Acq. Instrument : Lucy                             Location  : Vial 18
Injection Date  : 8/28/2011 9:08:50 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R1 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

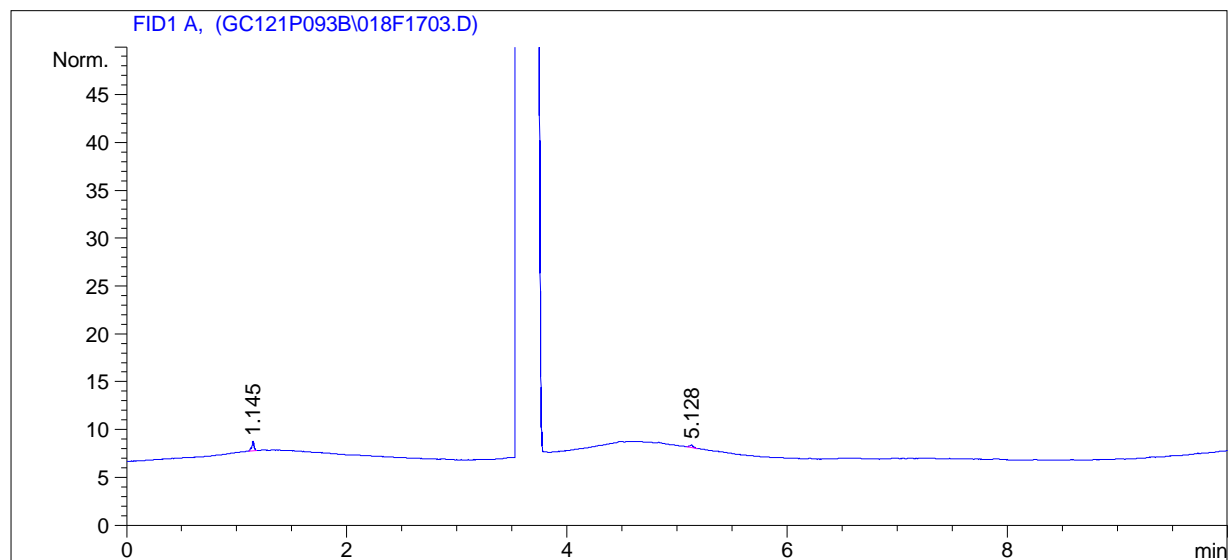
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   17
Acq. Instrument : Lucy                             Location  : Vial 18
Injection Date  : 8/28/2011 9:26:42 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R1 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

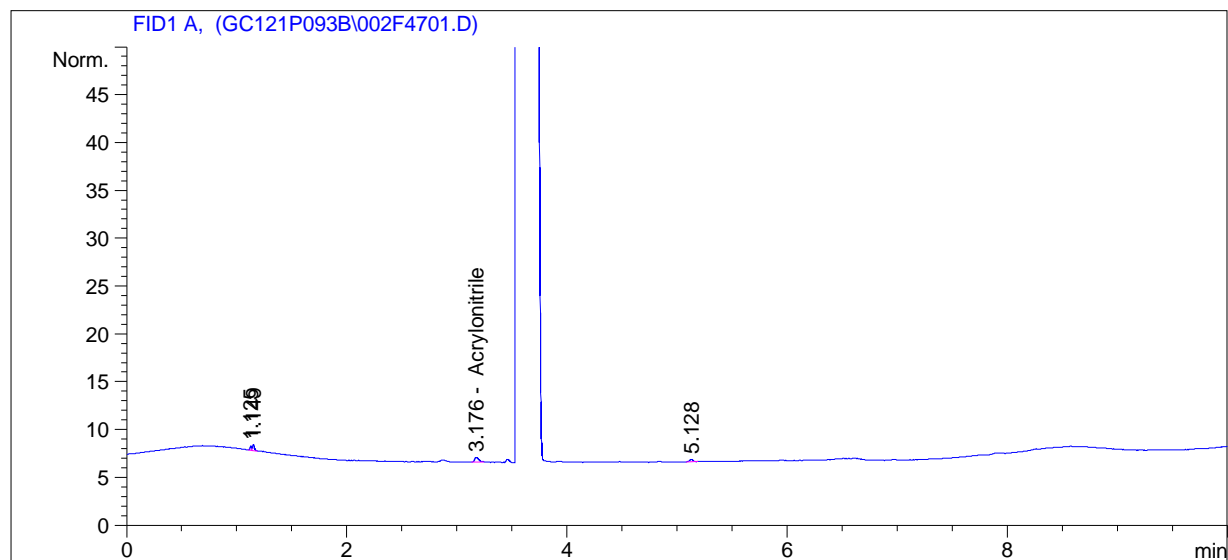
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Spkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   47
Acq. Instrument : Lucy                               Location  : Vial  2
Injection Date  : 8/29/2011 11:40:06 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.176	BB	1.37790	1.23479	1.70143		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.70143

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

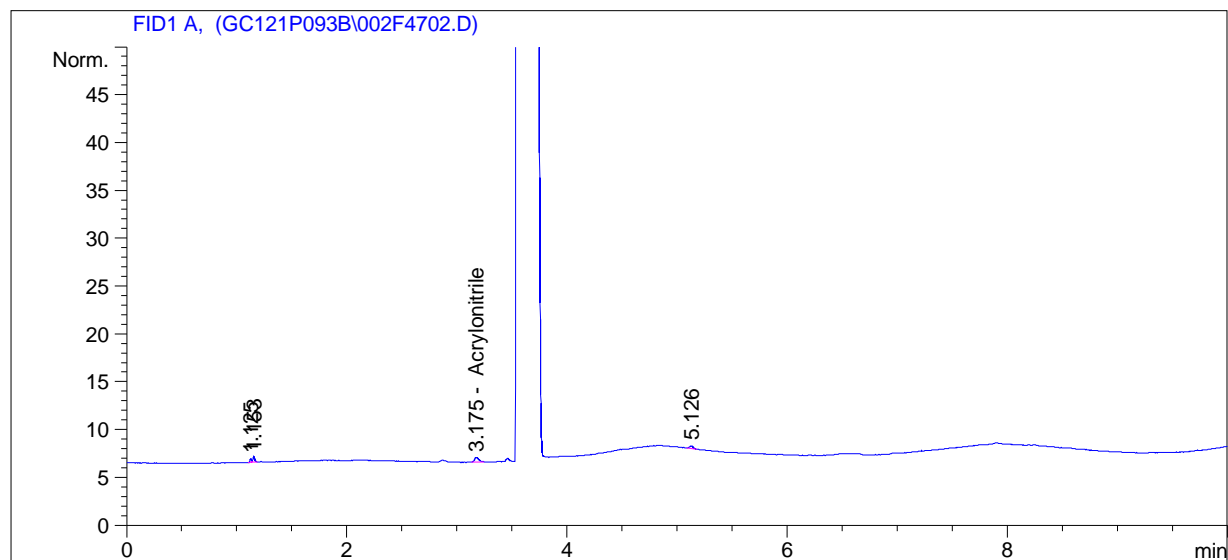
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Spkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   47
Acq. Instrument : Lucy                             Location  : Vial  2
Injection Date  : 8/29/2011 11:58:00 AM             Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.175	BB	1.33908	1.23846	1.65839		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.65839

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

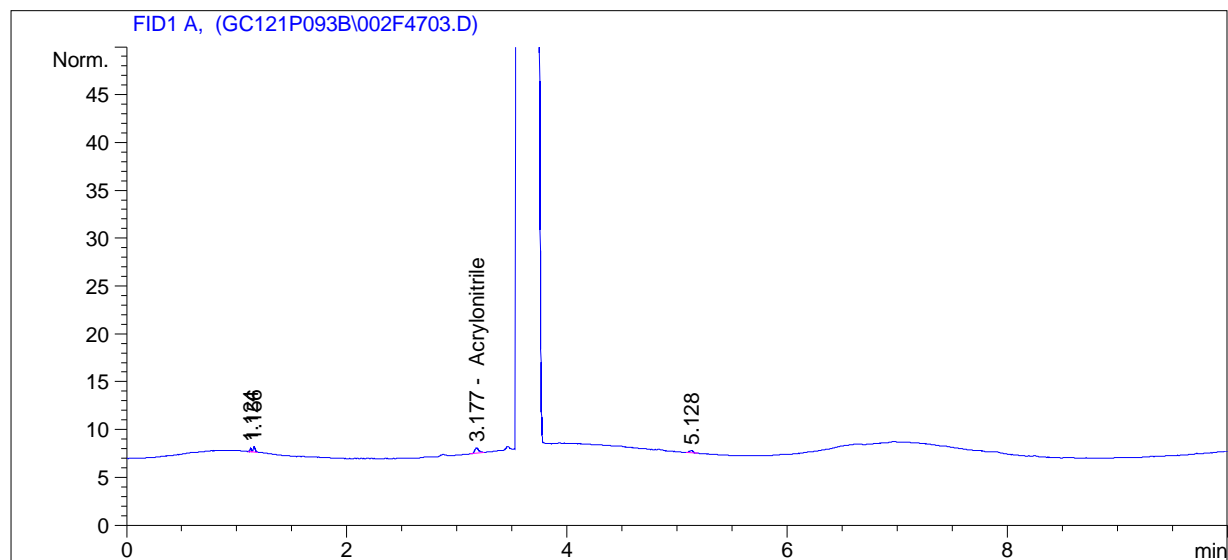
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Spkd Cond. CS2

=====

Acq. Operator	: SJE	Seq. Line	: 47
Acq. Instrument	: Lucy	Location	: Vial 2
Injection Date	: 8/29/2011 12:16:01 PM	Inj	: 3
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086B.M		
Last changed	: 8/12/2011 1:12:26 PM by KMT		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.177	BB	1.41401	1.23157	1.74145		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.74145

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

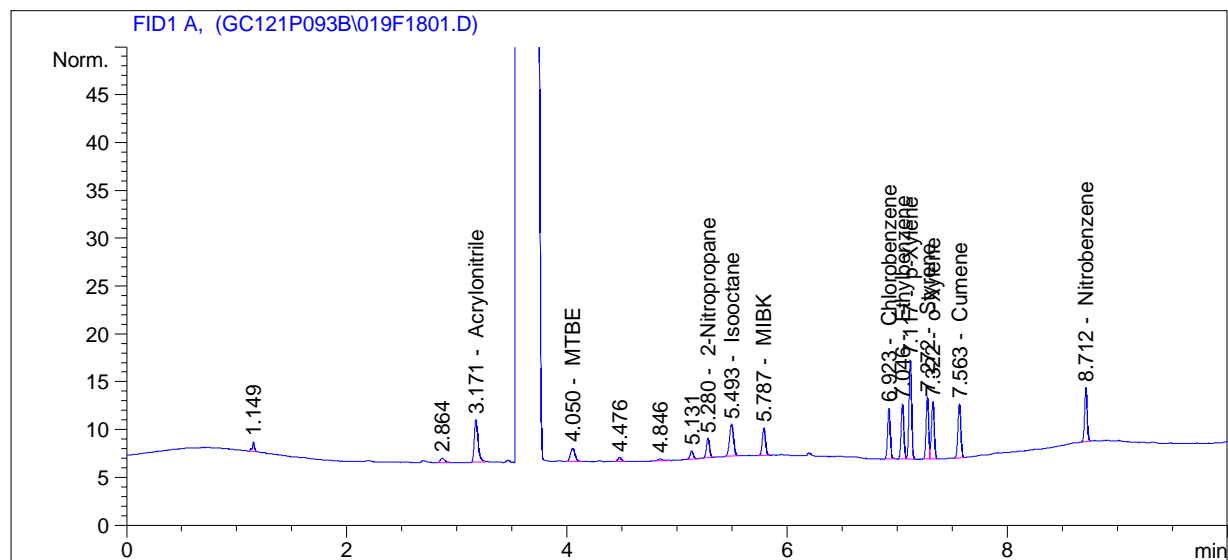
Sample Name: M18 T1R1 Sp XAD FH

```

=====
Acq. Operator   : SJE                      Seq. Line :   18
Acq. Instrument : Lucy                    Location  : Vial 19
Injection Date  : 8/28/2011 9:44:38 AM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.171	BB	10.58245	1.12490	11.90415	-	Acrylonitrile
4.050	BB	4.05414	9.41701e-1	3.81779	-	MTBE
5.280	BB	3.94819	1.20070	4.74060	-	2-Nitropropane
5.493	BB	8.64007	5.42223e-1	4.68485	-	Isooctane
5.787	BB	5.74738	7.50172e-1	4.31153	-	MIBK
6.923	BB	8.96763	6.86401e-1	6.15539	-	Chlorobenzene
7.046	BV	9.92779	4.98132e-1	4.94535	-	Ethylbenzene
7.117	VB	17.07729	4.93481e-1	8.42732	-	p-Xylene
7.272	BV	10.54760	4.78327e-1	5.04521	-	Styrene
7.322	VB	10.47877	4.82468e-1	5.05567	-	o-Xylene
7.563	BB	10.28204	4.91016e-1	5.04865	-	Cumene

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FSD 1108-200

Sample Name: M18 T1R1 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	9.07994	7.69347e-1	6.98563		Ni trobenzene

Totals : 71.12214

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

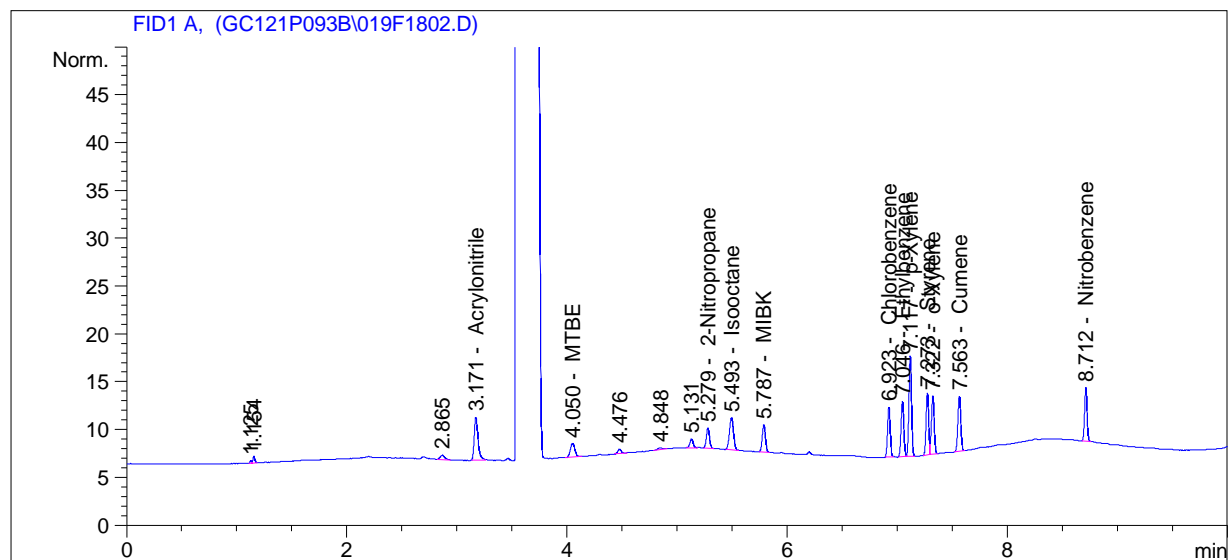
Sample Name: M18 T1R1 Sp XAD FH

```

=====
Acq. Operator   : SJE                      Seq. Line :   18
Acq. Instrument : Lucy                    Location  : Vial 19
Injection Date  : 8/28/2011 10:02:31 AM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.171	BB	10.63897	1.12481	11.96680	-	Acrylonitrile
4.050	BB	4.18456	9.41981e-1	3.94177	-	MTBE
5.279	BB	4.15599	1.20178	4.99458	-	2-Nitropropane
5.493	BB	8.78368	5.42437e-1	4.76460	-	Isooctane
5.787	BB	5.86092	7.50594e-1	4.39918	-	MIBK
6.923	BB	8.90287	6.86351e-1	6.11049	-	Chlorobenzene
7.046	BV	9.93097	4.98131e-1	4.94693	-	Ethylbenzene
7.117	VB	17.15331	4.93481e-1	8.46483	-	p-Xylene
7.273	BV	10.67985	4.78339e-1	5.10859	-	Styrene
7.322	VB	10.61738	4.82504e-1	5.12293	-	o-Xylene
7.563	BB	10.50110	4.90972e-1	5.15574	-	Cumene

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FSD 1108-200

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Sample Name: M18 T1R1 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	8.88753	7.69173e-1	6.83605		Ni trobenzene

Totals : 71.81249

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

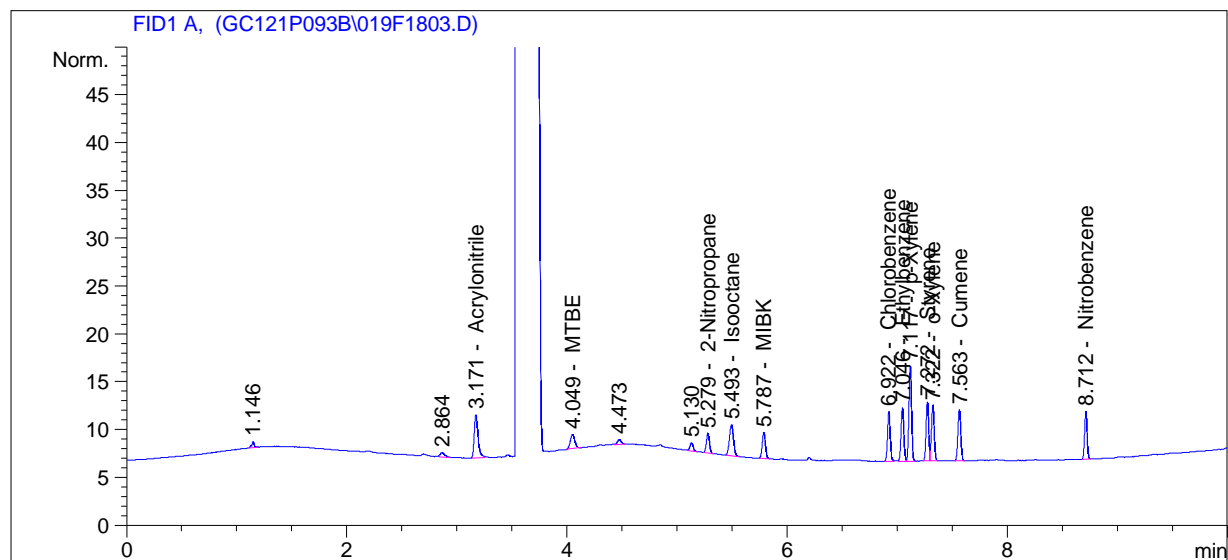
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp XAD FH

```
=====
Acq. Operator   : SJE                      Seq. Line :   18
Acq. Instrument : Lucy                    Location  : Vial 19
Injection Date  : 8/28/2011 10:20:24 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetonitrile
3.171	BB	10.69398	1.12472	12.02778		Acrylonitrile
4.049	BB	4.21448	9.42042e-1	3.97022		MTBE
5.279	BB	3.97118	1.20083	4.76871		2-Nitropropane
5.493	BB	8.34516	5.41762e-1	4.52109		Isooctane
5.787	BB	5.46622	7.49052e-1	4.09448		MIBK
6.922	BB	8.73087	6.86213e-1	5.99124		Chlorobenzene
7.046	BV	9.70312	4.98157e-1	4.83368		Ethylbenzene
7.117	VB	16.53536	4.93484e-1	8.15993		p-Xylene
7.272	BV	10.18030	4.78294e-1	4.86918		Styrene
7.322	VB	10.10108	4.82364e-1	4.87240		o-Xylene
7.563	BB	9.86005	4.91107e-1	4.84234		Cumene

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Sample Name: M18 T1R1 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	7.90567	7.68154e-1	6.07277		Ni trobenzene

Totals : 69.02382

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

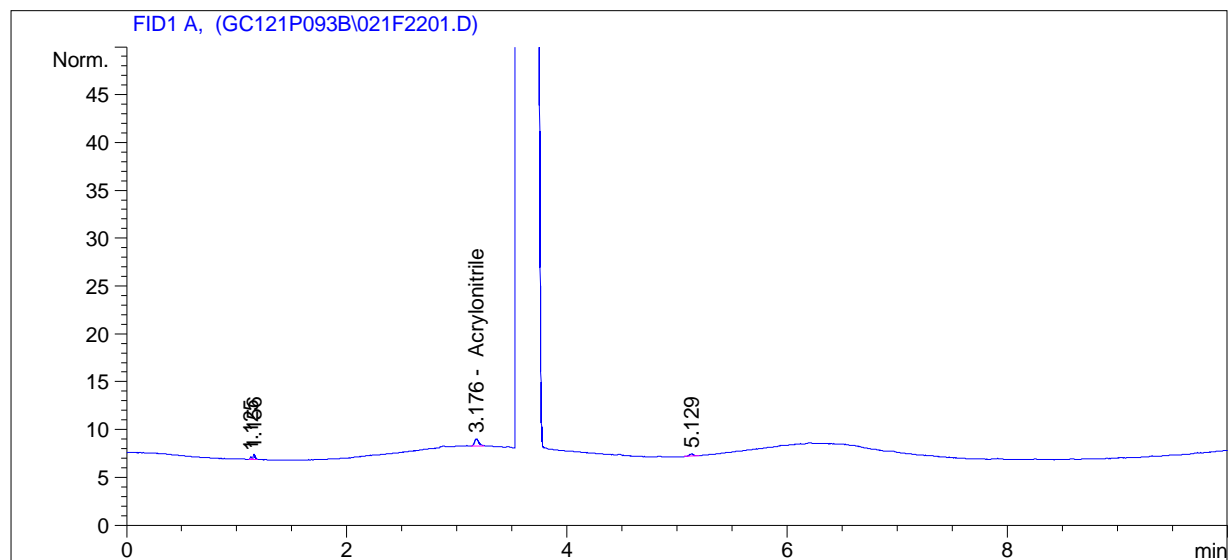
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp XAD BH

=====

Acq. Operator	: SJE	Seq. Line	: 22
Acq. Instrument	: Lucy	Location	: Vial 21
Injection Date	: 8/28/2011 1:19:33 PM	Inj	: 1
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.176	BB	1.98242	1.19627	2.37150		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.37150

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

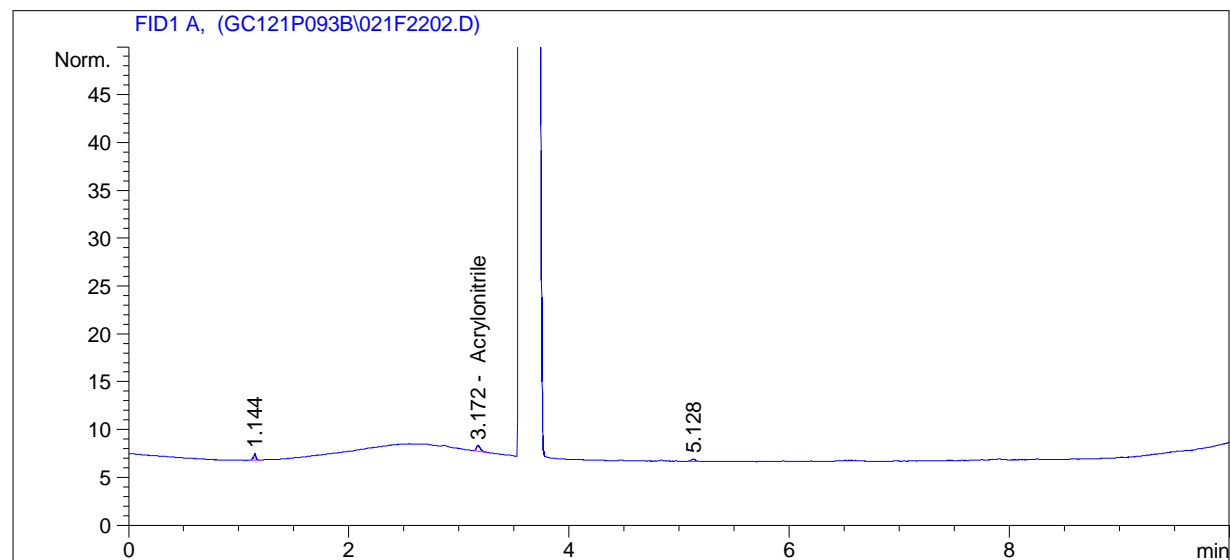
Sample Name: M18 T1R1 Sp XAD BH

```

=====
Acq. Operator   : SJE                               Seq. Line :   22
Acq. Instrument : Lucy                             Location  : Vial 21
Injection Date  : 8/28/2011 1:37:29 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetonitrile
3.172	BB	1.50429	1.22418	1.84152		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

Sample Name: M18 T1R1 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.84152

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

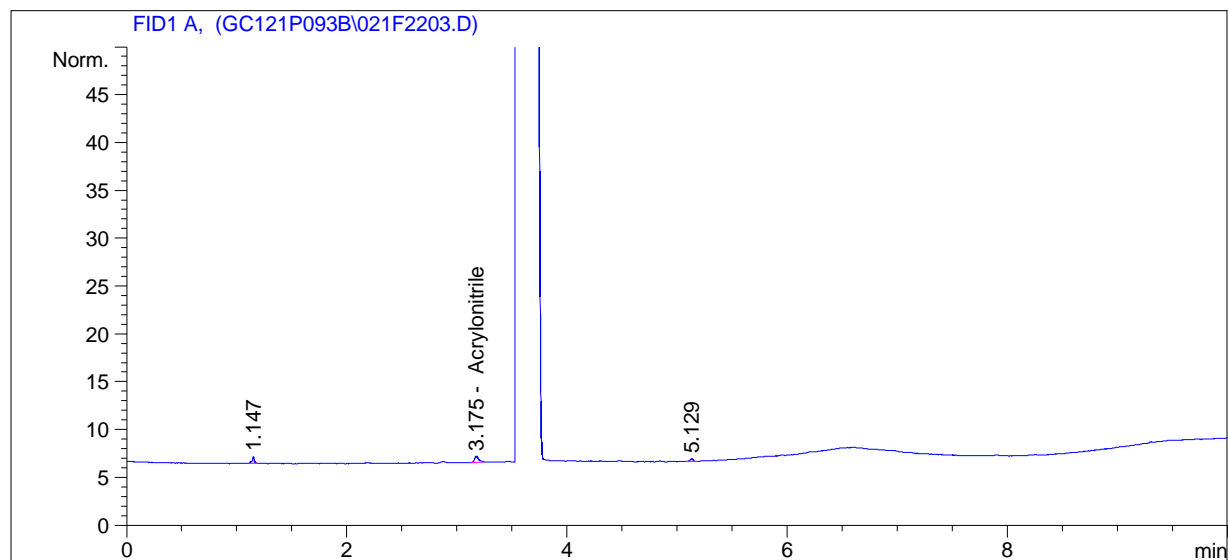
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp XAD BH

=====

Acq. Operator	: SJE	Seq. Line	: 22
Acq. Instrument	: Lucy	Location	: Vial 21
Injection Date	: 8/28/2011 1:55:26 PM	Inj	: 3
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.175	BB	1.65252	1.21380	2.00583		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.00583

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

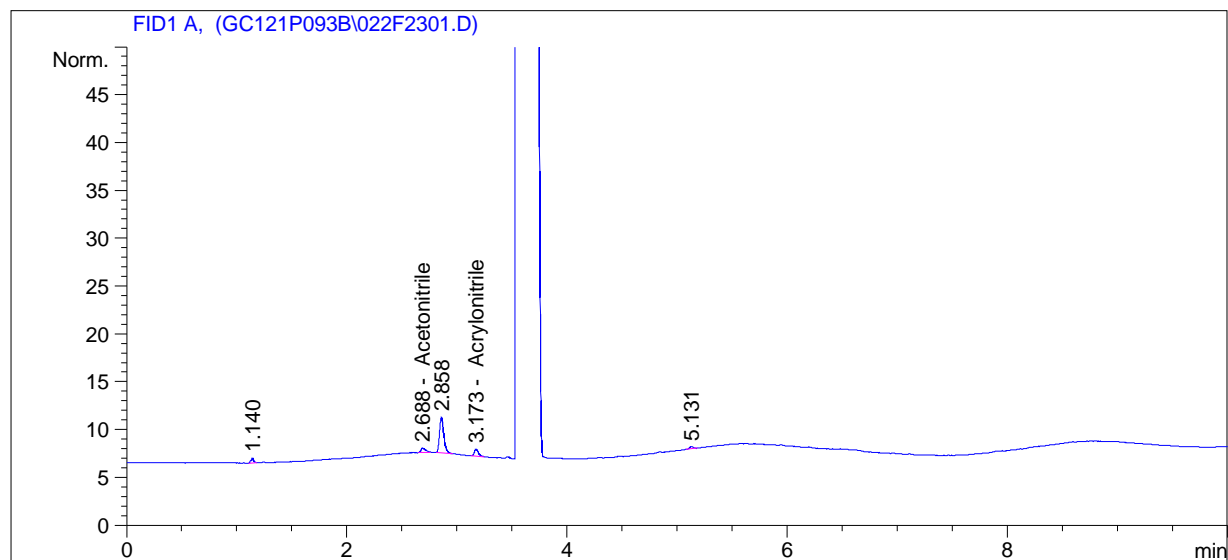
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   23
Acq. Instrument : Lucy                             Location  : Vial 22
Injection Date  : 8/28/2011 2:13:26 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.688	BB	1.44784	2.42684	3.51367		Acetonitrile
3.173	BB	1.96885	1.19687	2.35646		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 5.87013

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

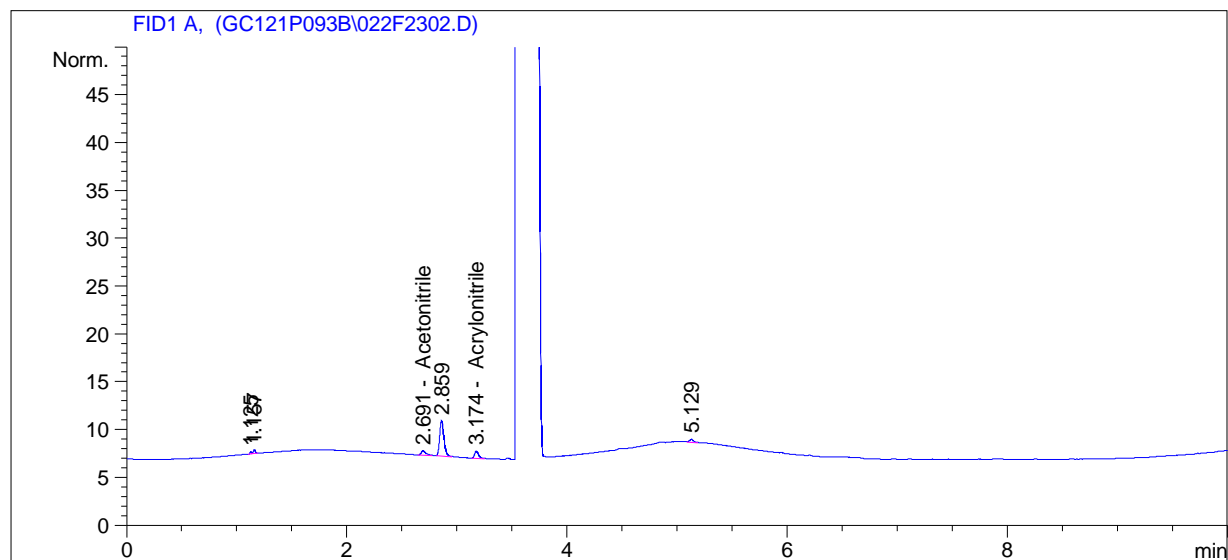
Sample Name: M18 T1R1 Sp CT FH

```

=====
Acq. Operator   : SJE                               Seq. Line :   23
Acq. Instrument : Lucy                             Location  : Vial 22
Injection Date  : 8/28/2011 2:31:24 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.691	BB	1.43861	2.43134	3.49774		Acetonitrile
3.174	BB	1.85839	1.20213	2.23403		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 5.73177

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

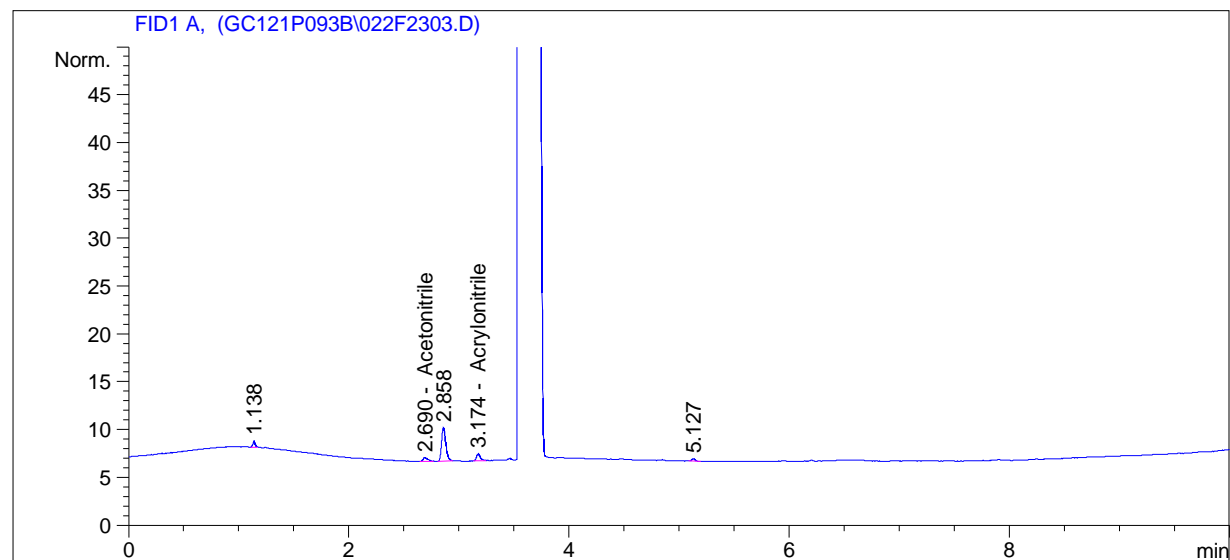
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   23
Acq. Instrument : Lucy                             Location  : Vial 22
Injection Date  : 8/28/2011 2:49:23 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.690	BB	1.17980	2.55370	3.01285		Acetonitrile
3.174	BB	1.80535	1.20488	2.17522		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 5.18808

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

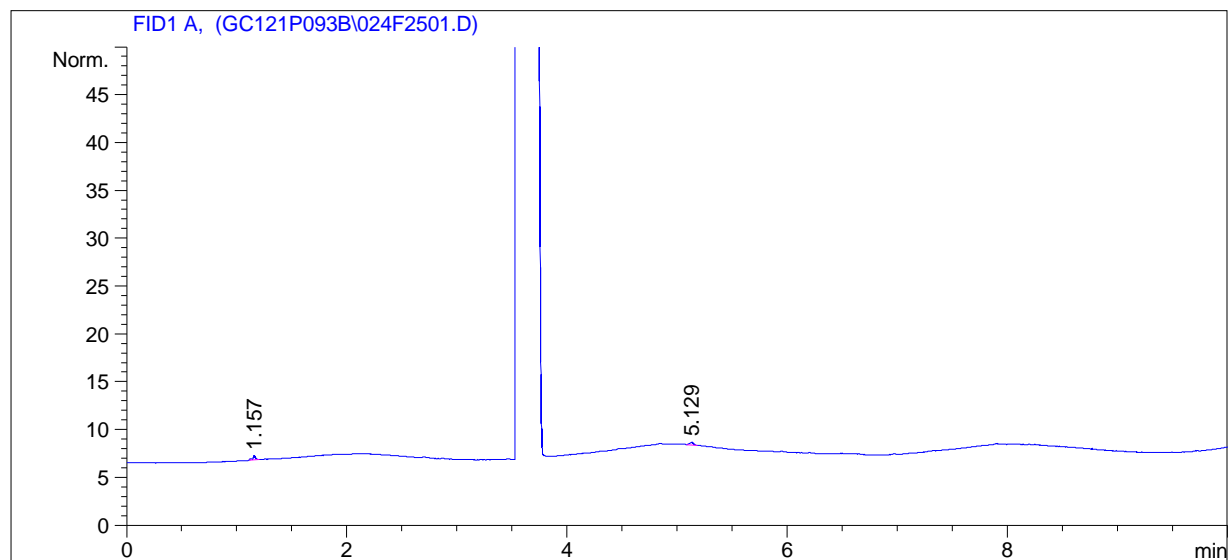
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   25
Acq. Instrument : Lucy                               Location  : Vial 24
Injection Date  : 8/28/2011 4:01:13 PM                Inj       :    1
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Instrument 1 9/1/2011 10:26:08 PM

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Sample Name: M18 T1R1 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

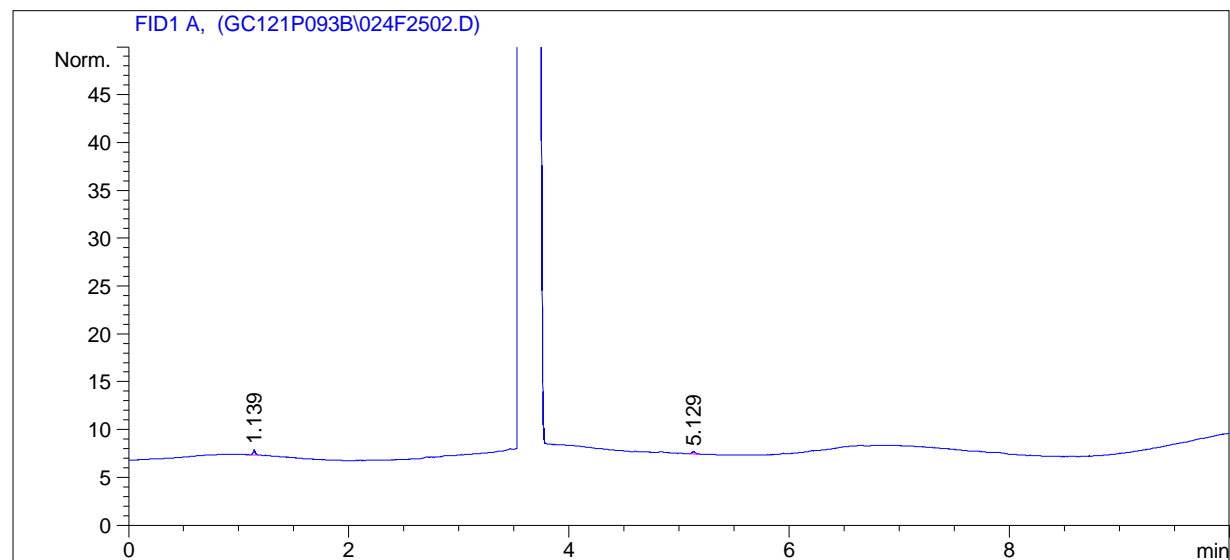
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   25
Acq. Instrument : Lucy                             Location  : Vial 24
Injection Date  : 8/28/2011 4:19:13 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

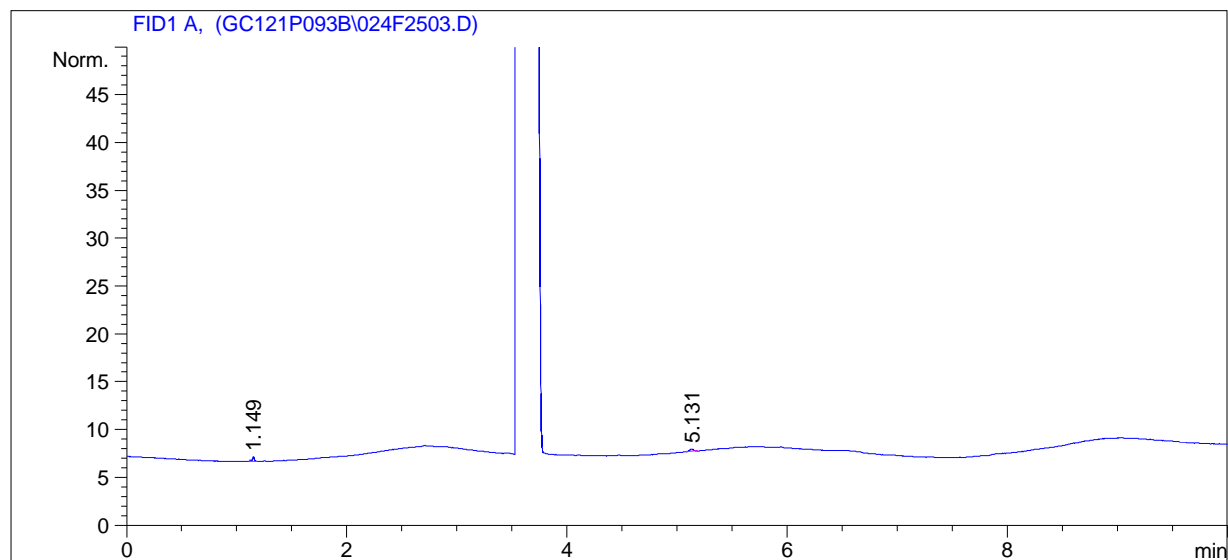
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   25
Acq. Instrument : Lucy                             Location  : Vial 24
Injection Date  : 8/28/2011 4:37:11 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

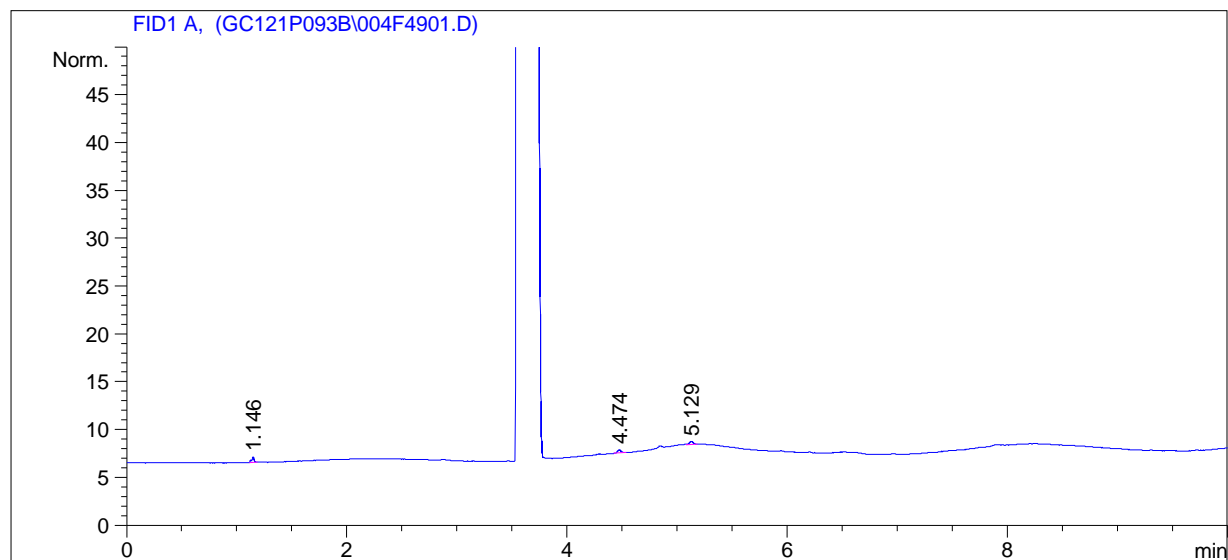
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   49
Acq. Instrument : Lucy                             Location  : Vial  4
Injection Date  : 8/29/2011 1:28:04 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R2 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
 =====
 Area Percent Report
 =====
 =====

Sorted By : Signal
 Calib. Data Modified : 9/1/2011 10:06:38 PM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

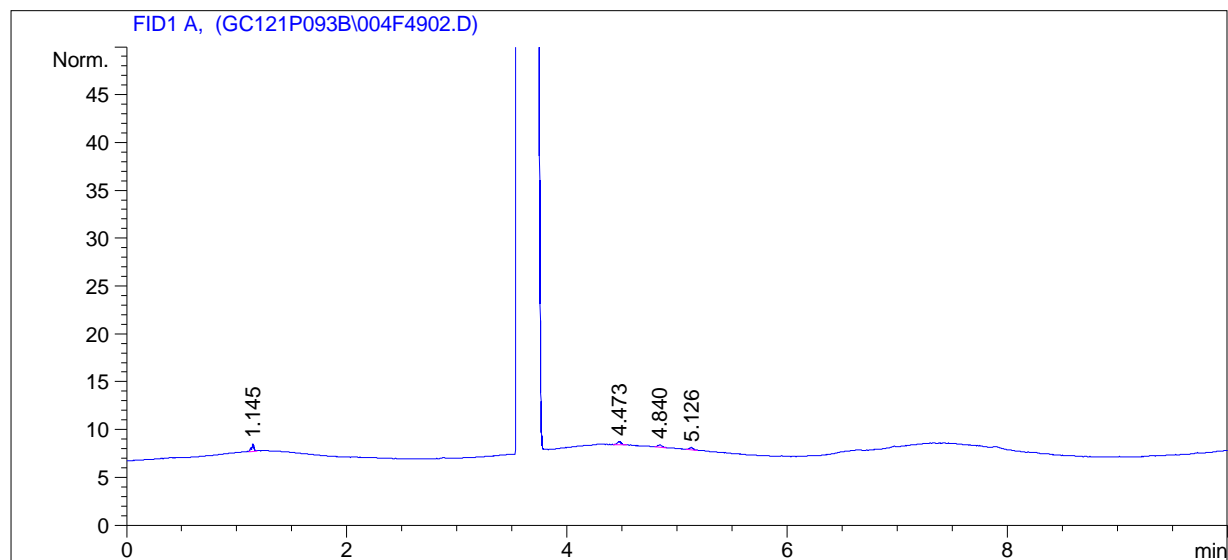
Warning : Calibrated compound(s) not found

=====
 *** End of Report ***

Sample Name: M18 T1R2 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   49
Acq. Instrument : Lucy                             Location  : Vial  4
Injection Date  : 8/29/2011 1:46:00 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

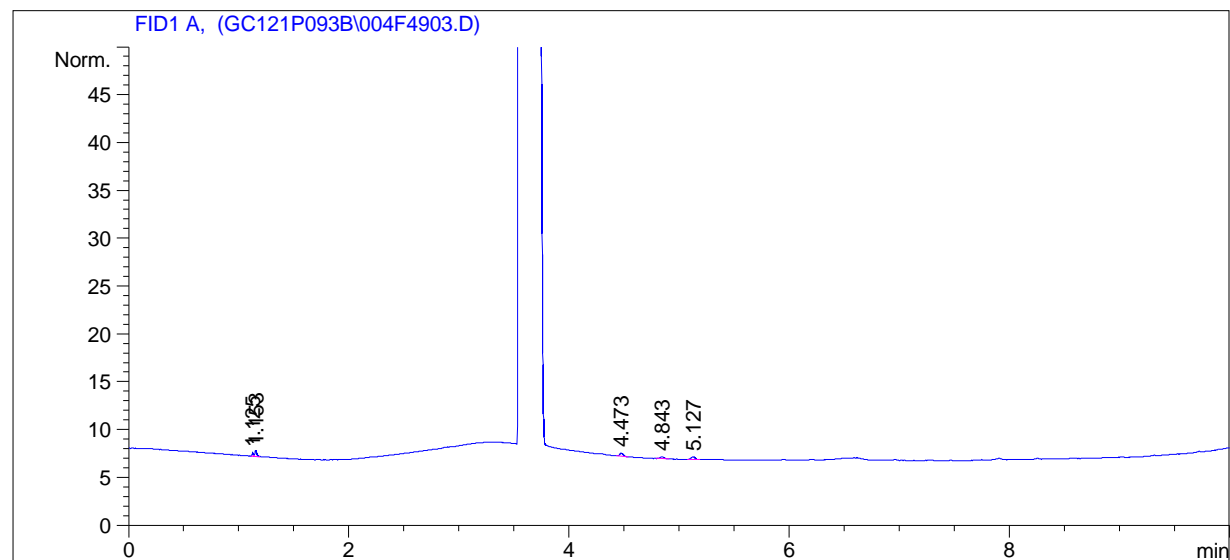
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   49
Acq. Instrument : Lucy                             Location  : Vial  4
Injection Date  : 8/29/2011 2:04:19 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

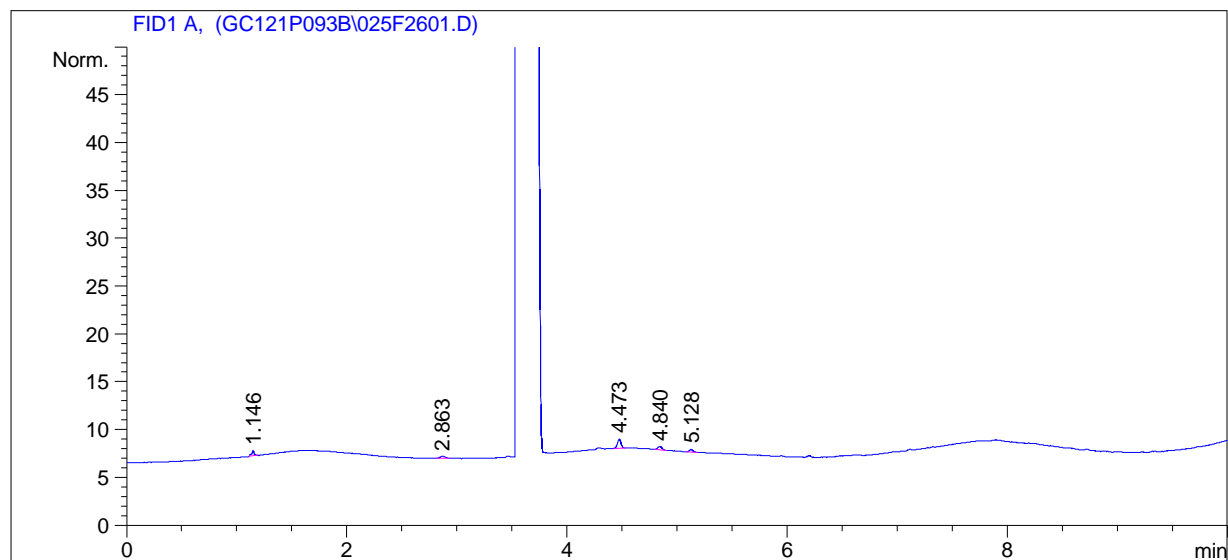
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   26
Acq. Instrument : Lucy                             Location  : Vial 25
Injection Date  : 8/28/2011 4:55:09 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

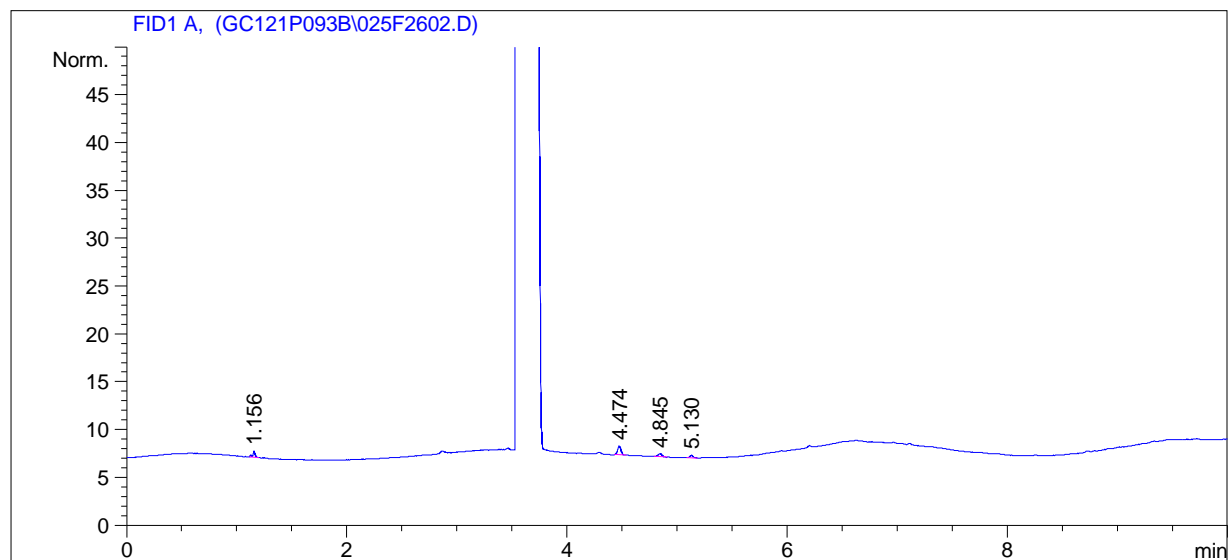
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   26
Acq. Instrument : Lucy                               Location  : Vial 25
Injection Date  : 8/28/2011 5:13:08 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

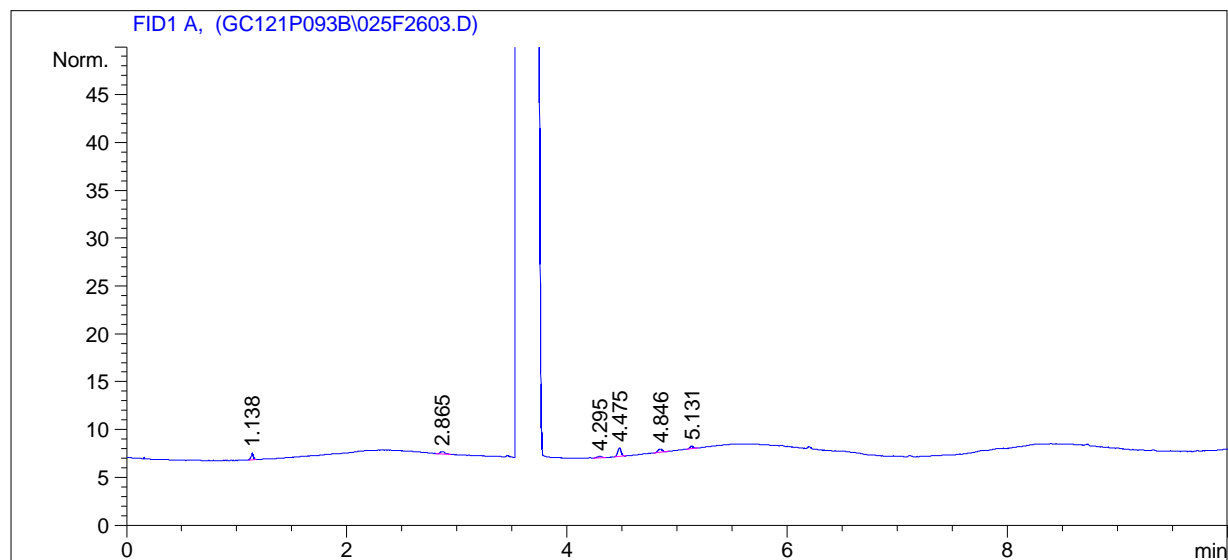
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   26
Acq. Instrument : Lucy                             Location  : Vial 25
Injection Date  : 8/28/2011 5:31:05 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

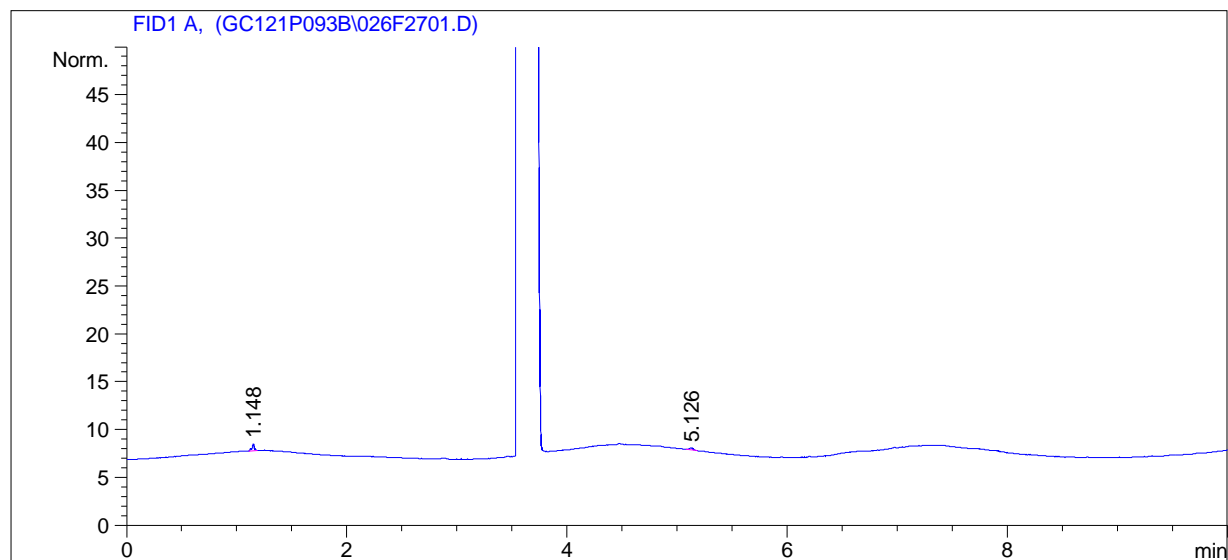
Sample Name: M18 T1R2 U XAD BH

```

=====
Acq. Operator   : SJE                               Seq. Line :   27
Acq. Instrument : Lucy                             Location  : Vial 26
Injection Date  : 8/28/2011 5:49:01 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R2 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

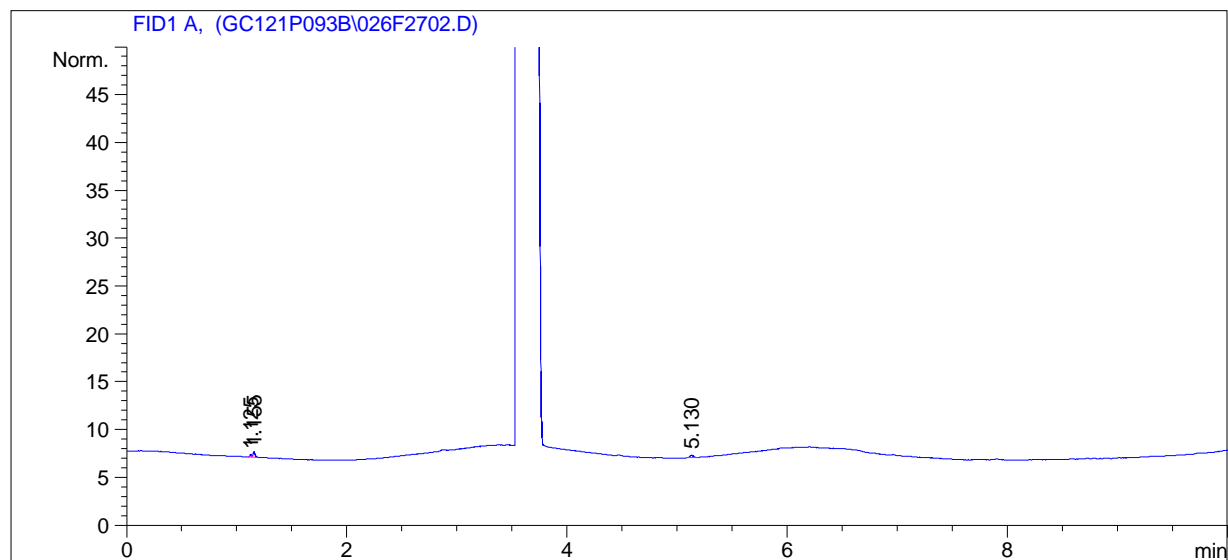
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 U XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   27
Acq. Instrument : Lucy                               Location  : Vial 26
Injection Date  : 8/28/2011 6:06:59 PM                Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

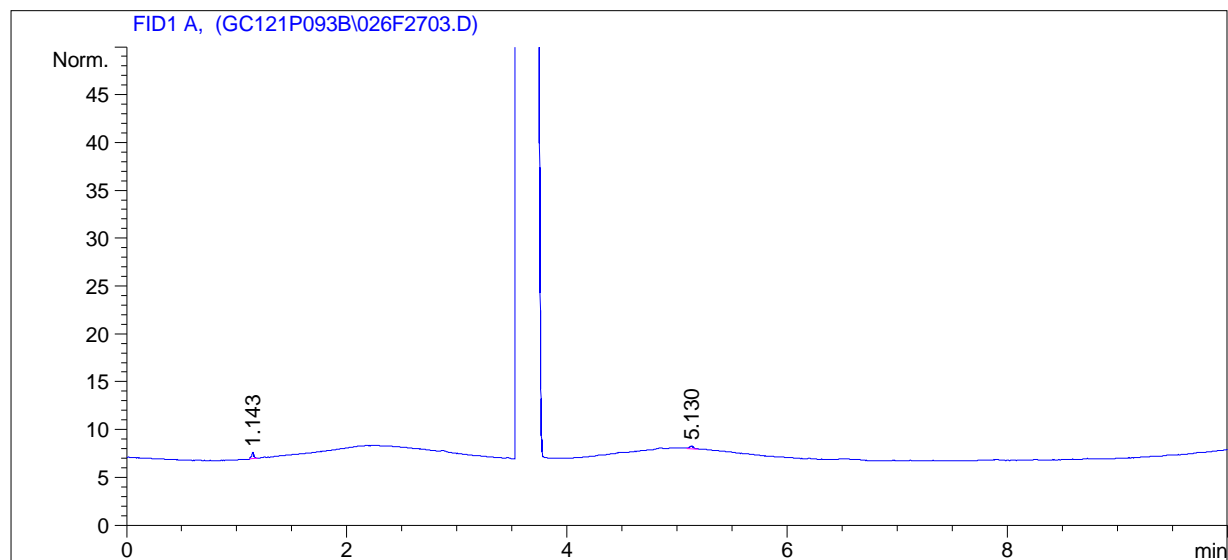
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 U XAD BH

```
=====
Acq. Operator   : SJE                      Seq. Line :   27
Acq. Instrument : Lucy                    Location  : Vial 26
Injection Date  : 8/28/2011 6:24:57 PM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

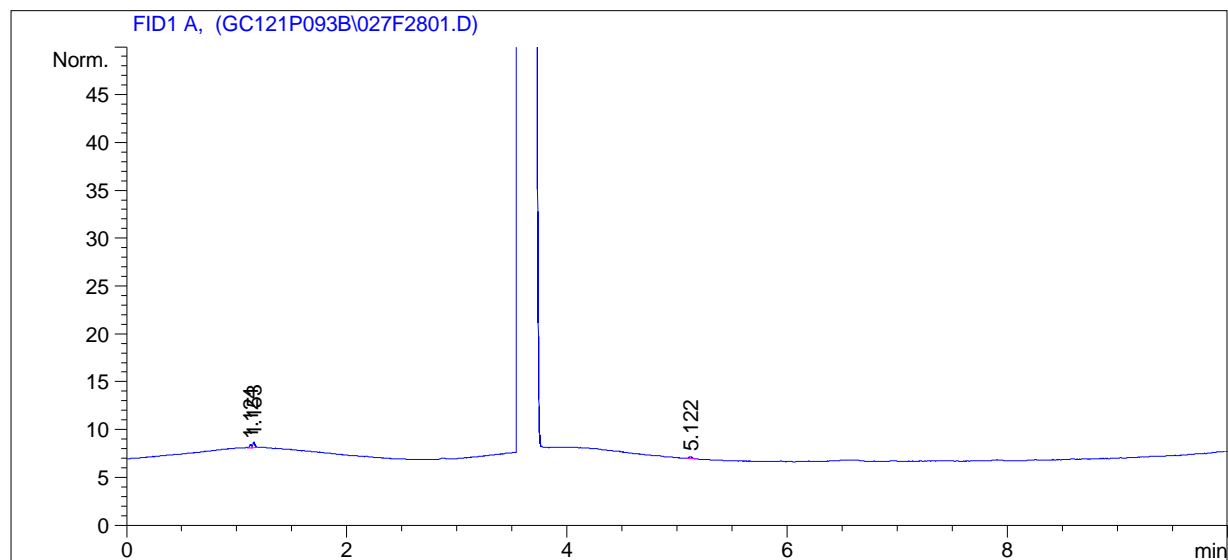
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   28
Acq. Instrument : Lucy                             Location  : Vial 27
Injection Date  : 8/28/2011 6:42:48 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

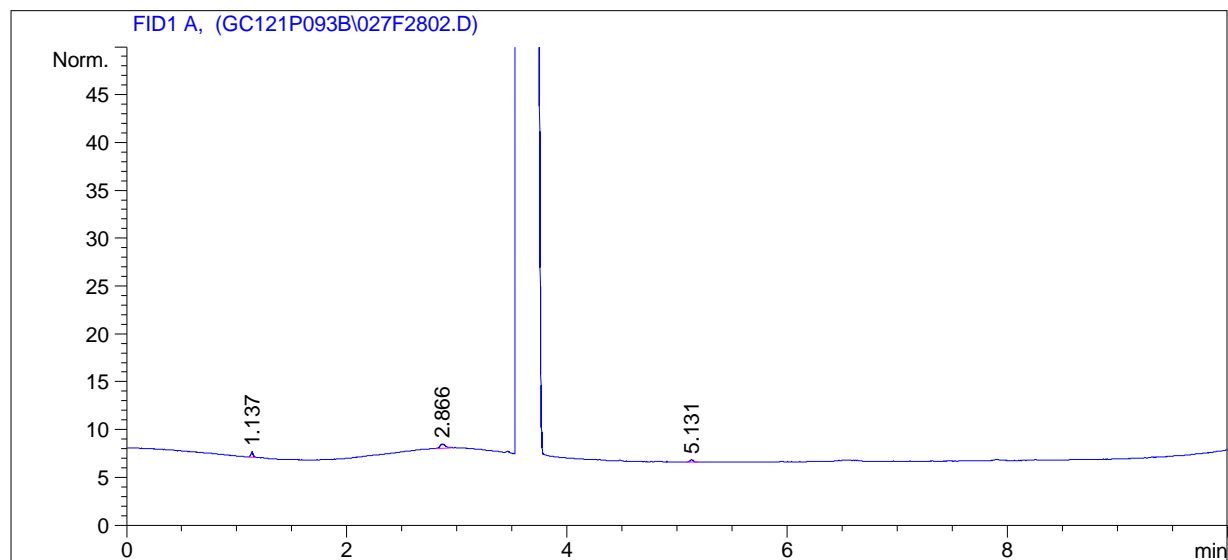
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   28
Acq. Instrument : Lucy                             Location  : Vial 27
Injection Date  : 8/28/2011 7:00:39 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R1 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

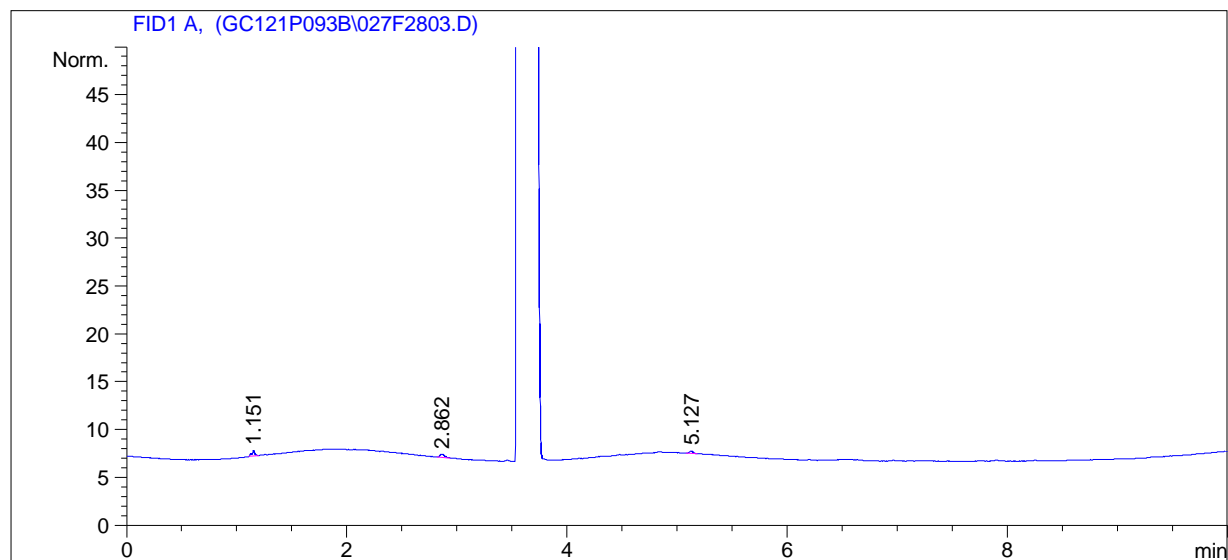
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 U CT FH

```
=====
Acq. Operator   : SJE                      Seq. Line :   28
Acq. Instrument : Lucy                     Location  : Vial 27
Injection Date  : 8/28/2011 7:18:30 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

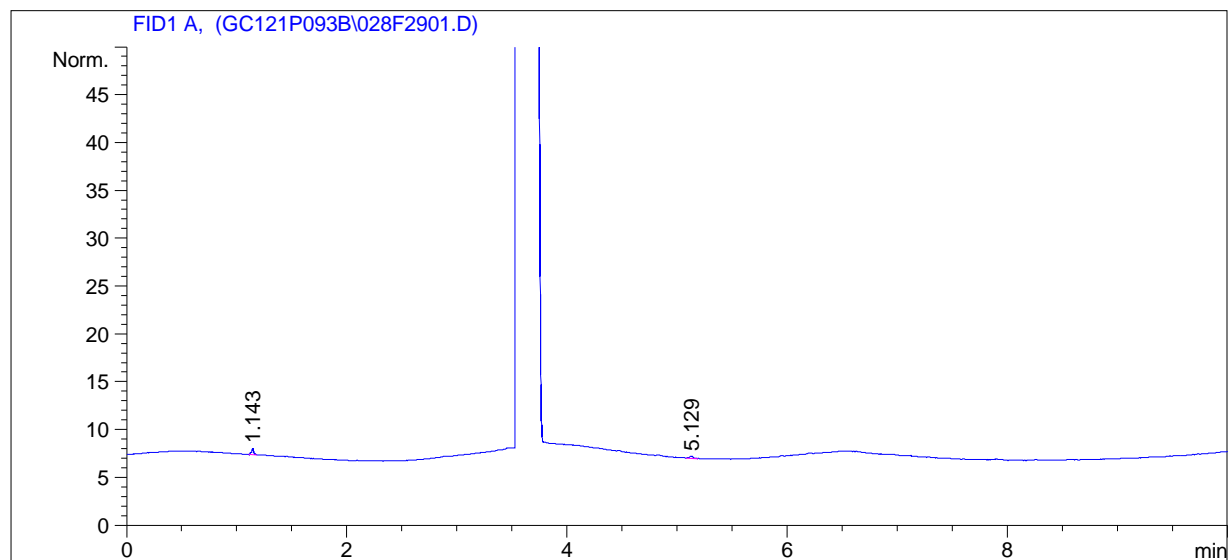
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 U CT BH

```
=====
Acq. Operator   : SJE                      Seq. Line :   29
Acq. Instrument : Lucy                    Location  : Vial 28
Injection Date  : 8/28/2011 7:36:29 PM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

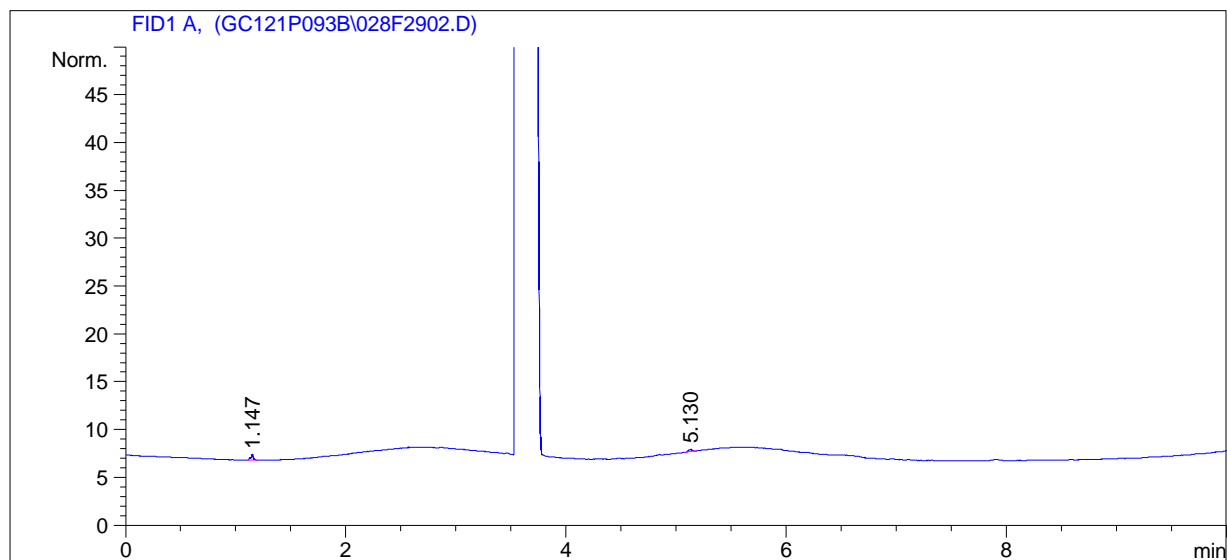
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 U CT BH

```
=====
Acq. Operator   : SJE                      Seq. Line :   29
Acq. Instrument : Lucy                    Location  : Vial 28
Injection Date  : 8/28/2011 7:54:22 PM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R2 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
 =====
 Area Percent Report
 =====
 =====

Sorted By : Signal
 Calib. Data Modified : 9/1/2011 10:06:38 PM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

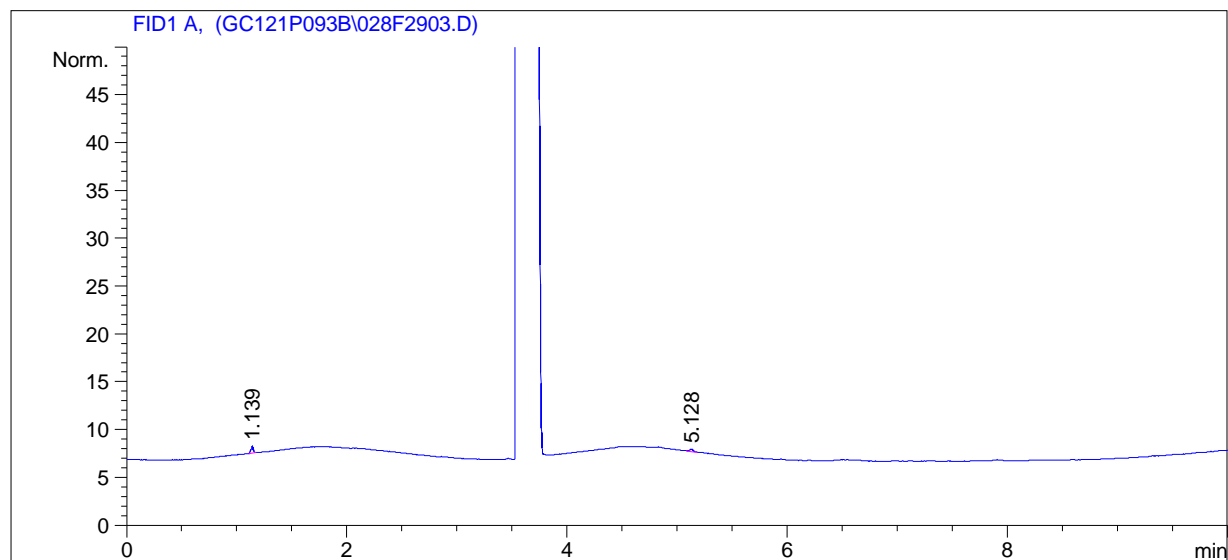
Warning : Calibrated compound(s) not found

=====
 *** End of Report ***

Sample Name: M18 T1R2 U CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   29
Acq. Instrument : Lucy                             Location  : Vial 28
Injection Date  : 8/28/2011 8:12:15 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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FSD 1108-200FHR Pine Bend LLC
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Sample Name: M18 T1R2 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

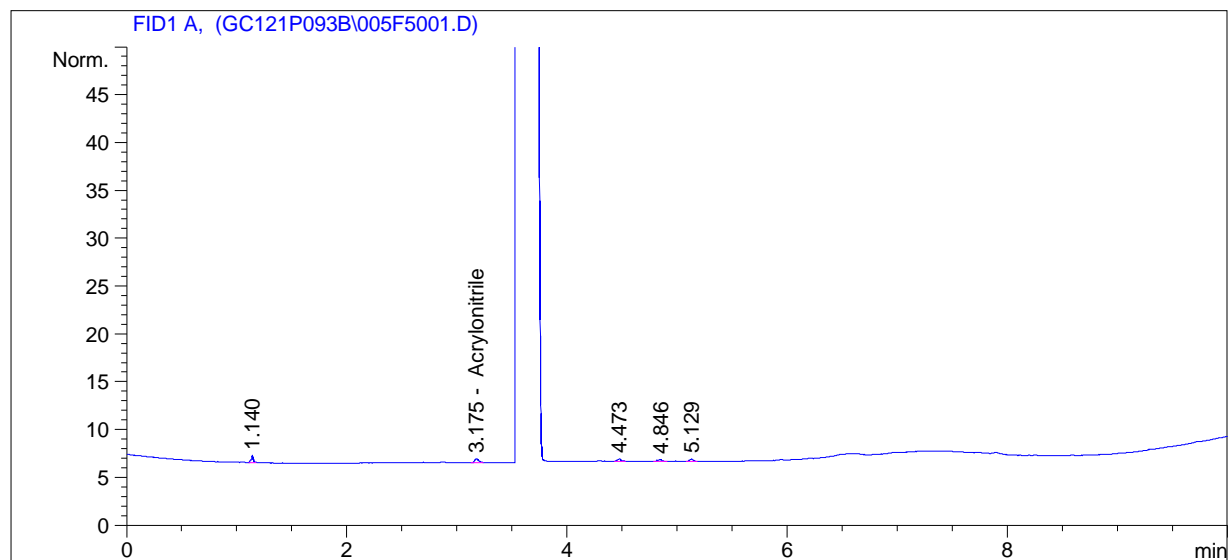
Sample Name: M18 T1R2 Spkd Cond. CS2

```

=====
Acq. Operator   : SJE                      Seq. Line :   50
Acq. Instrument : Lucy                    Location  : Vial  5
Injection Date  : 8/29/2011 2:22:18 PM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetonitrile
3.175	BB	1.07481	1.24679	1.34006		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

Sample Name: M18 T1R2 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.34006

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

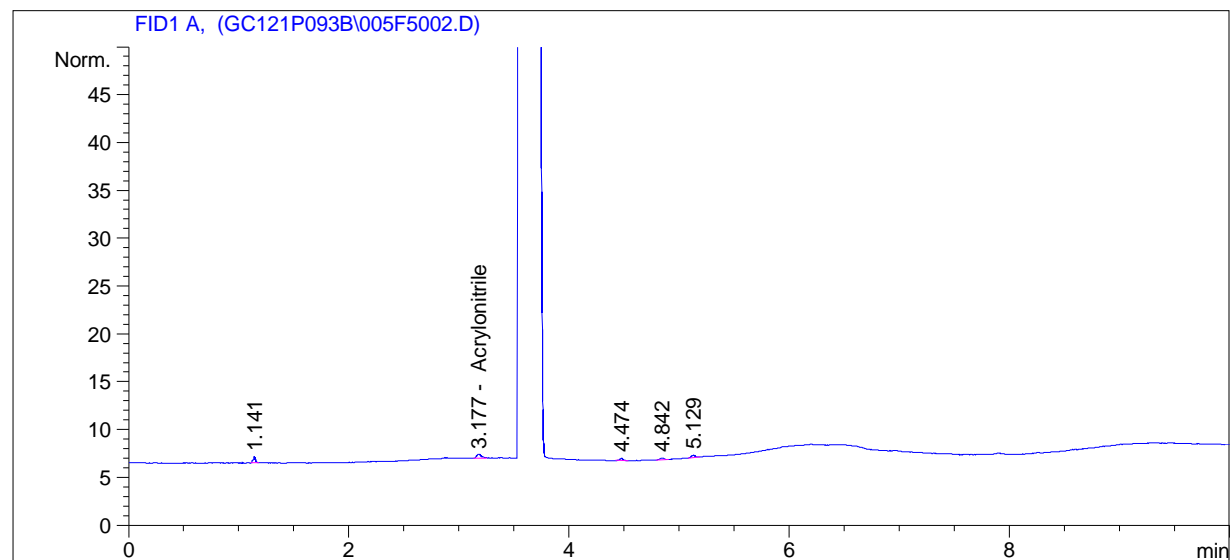
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Spkd Cond. CS2

=====

Acq. Operator	: SJE	Seq. Line	: 50
Acq. Instrument	: Lucy	Location	: Vial 5
Injection Date	: 8/29/2011 2:40:19 PM	Inj	: 2
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086B.M		
Last changed	: 8/12/2011 1:12:26 PM by KMT		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.177	BB	1.10716	1.24679	1.38040		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R2 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.38040

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

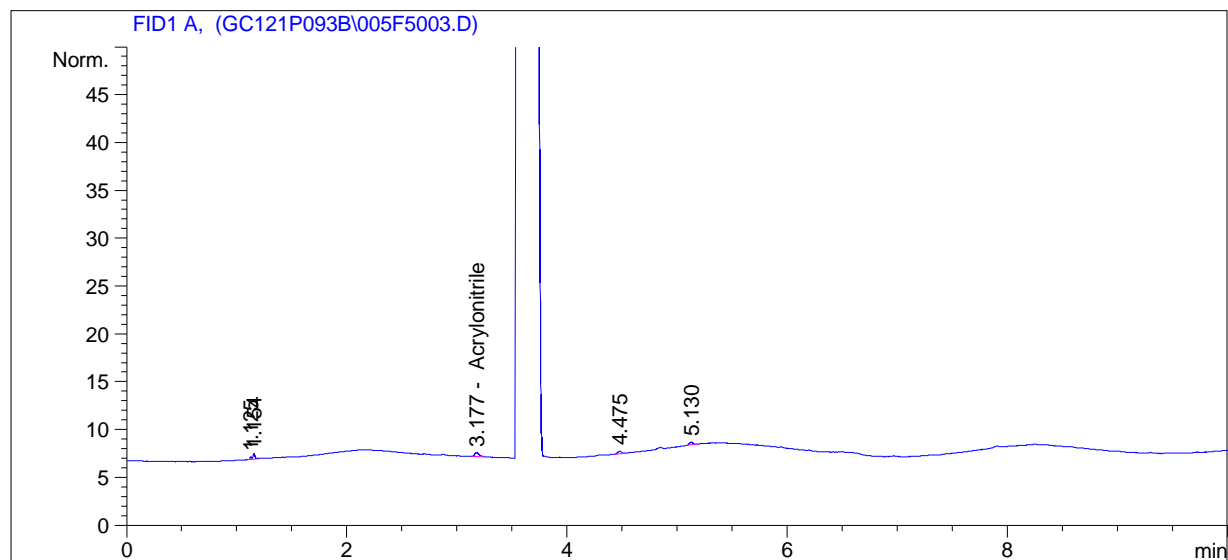
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Spkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   50
Acq. Instrument : Lucy                             Location  : Vial  5
Injection Date  : 8/29/2011 2:58:28 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.177	BB	1.14287	1.24679	1.42491		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R2 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.42491

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

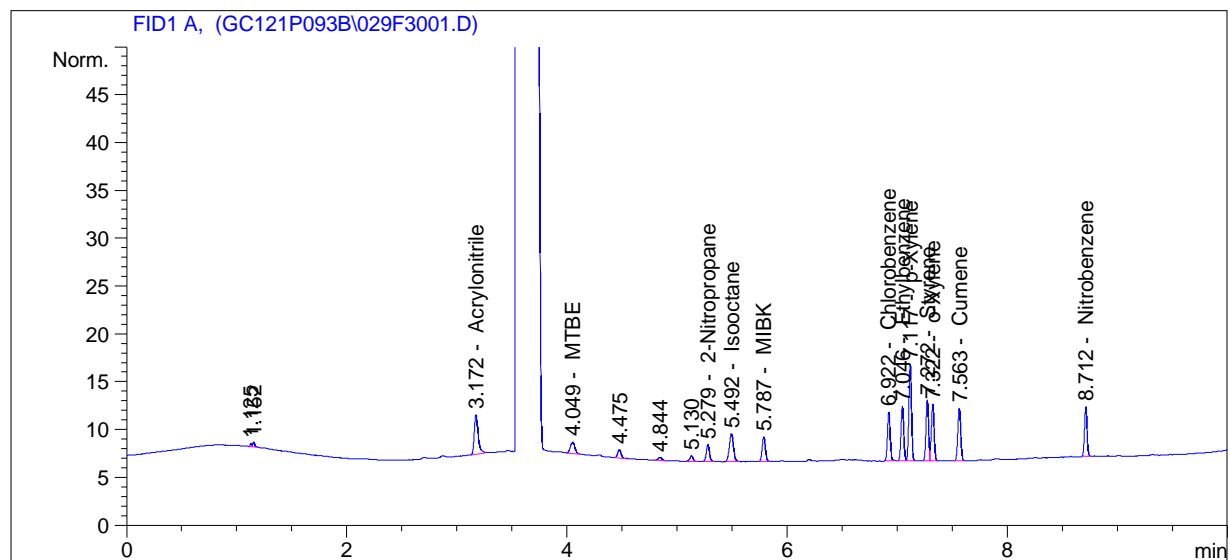
Sample Name: M18 T1R2 Sp XAD FH

```

=====
Acq. Operator   : SJE                      Seq. Line :   30
Acq. Instrument : Lucy                    Location  : Vial 29
Injection Date  : 8/28/2011 8:30:13 PM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC201103\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC201103\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC201103\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



=====

External Standard Report

=====

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.172	BB	9.97824	1.12589	11.23442		Acrylonitrile
4.049	BB	3.43582	9.40085e-1	3.22996		MTBE
5.279	BB	3.47803	1.19780	4.16599		2-Nitropropane
5.492	BB	7.59493	5.40425e-1	4.10449		Isooctane
5.787	BB	5.23353	7.48033e-1	3.91485		MIBK
6.922	BB	8.81545	6.86281e-1	6.04988		Chlorobenzene
7.046	BV	9.84948	4.98141e-1	4.90643		Ethylbenzene
7.117	VB	16.67231	4.93483e-1	8.22750		p-Xylene
7.272	BV	10.39142	4.78314e-1	4.97036		Styrene
7.322	VB	10.28290	4.82415e-1	4.96063		o-Xylene
7.563	BB	10.15322	4.91043e-1	4.98567		Cumene

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FSD 1108-200

FHR Pine Bend LLC
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Sample Name: M18 T1R2 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	8.30808	7.68601e-1	6.38560		Ni trobenzene

Totals : 67.13577

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

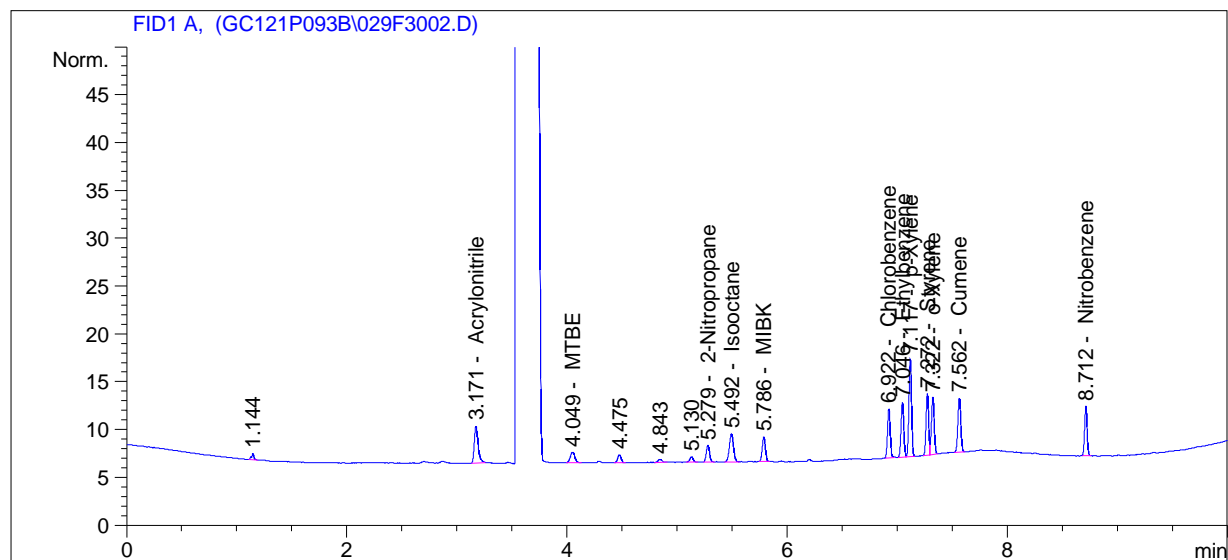
Sample Name: M18 T1R2 Sp XAD FH

```

=====
Acq. Operator   : SJE                      Seq. Line :   30
Acq. Instrument : Lucy                    Location  : Vial 29
Injection Date  : 8/28/2011 8:48:08 PM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC201103\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC201103\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC201103\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.171	BB	9.34291	1.12708	10.53019		Acrylonitrile
4.049	BB	3.26140	9.39518e-1	3.06414		MTBE
5.279	BB	3.50106	1.19796	4.19413		2-Nitropropane
5.492	BB	7.57154	5.40379e-1	4.09150		Isooctane
5.786	BB	5.17122	7.47745e-1	3.86675		MIBK
6.922	BB	8.93419	6.86375e-1	6.13220		Chlorobenzene
7.046	BV	9.90134	4.98135e-1	4.93220		Ethylbenzene
7.117	VB	16.82886	4.93482e-1	8.30474		p-Xylene
7.272	BV	10.51534	4.78325e-1	5.02974		Styrene
7.322	VB	10.46775	4.82465e-1	5.05033		o-Xylene
7.562	BB	10.45911	4.90980e-1	5.13521		Cumene

Pace Analytical
FSD 1108-200

FHR Pine Bend LLC
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Sample Name: M18 T1R2 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	8.20988	7.68496e-1	6.30926		Ni trobenzene

Totals : 66.64040

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

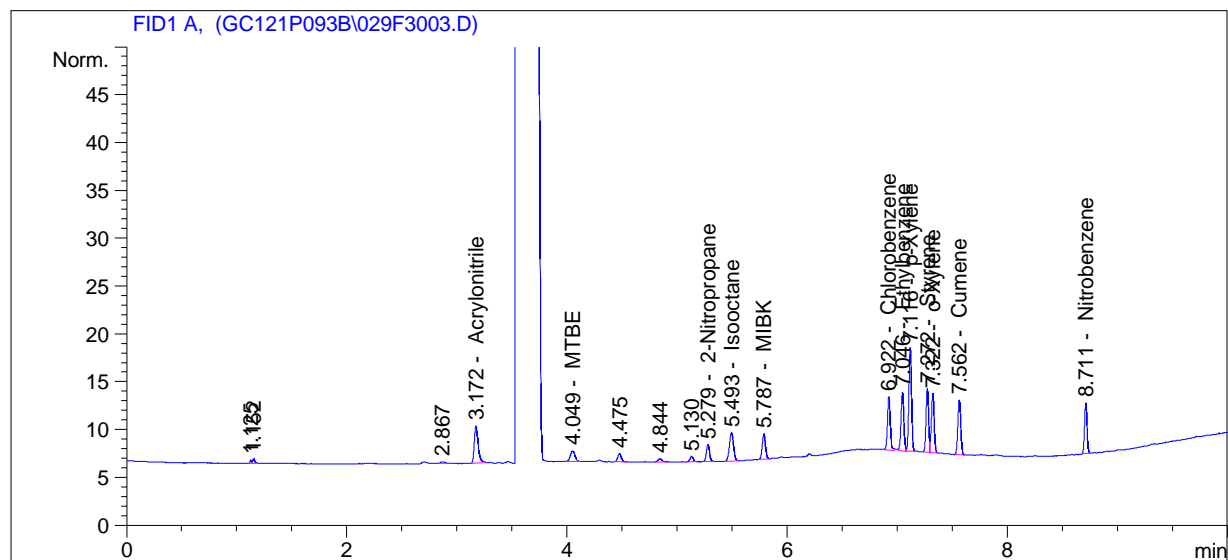
Sample Name: M18 T1R2 Sp XAD FH

```

=====
Acq. Operator   : SJE                      Seq. Line :   30
Acq. Instrument : Lucy                    Location  : Vial 29
Injection Date  : 8/28/2011 9:06:01 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.172	BB	9.49176	1.12679	10.69518	-	Acrylonitrile
4.049	BB	3.29615	9.39636e-1	3.09719	-	MTBE
5.279	BB	3.51682	1.19807	4.21340	-	2-Nitropropane
5.493	BB	7.65820	5.40547e-1	4.13962	-	Isooctane
5.787	BB	5.36261	7.48609e-1	4.01450	-	MIBK
6.922	BB	9.88879	6.87045e-1	6.79405	-	Chlorobenzene
7.046	BV	10.77403	4.98045e-1	5.36595	-	Ethylbenzene
7.116	VB	17.92102	4.93477e-1	8.84362	-	p-Xylene
7.272	BV	10.86576	4.78355e-1	5.19769	-	Styrene
7.322	VB	10.74540	4.82537e-1	5.18505	-	o-Xylene
7.562	BB	10.42980	4.90986e-1	5.12088	-	Cumene

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Sample Name: M18 T1R2 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.711	BB	8.37620	7.68672e-1	6.43855		Ni trobenzene

Totals : 69.10567

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

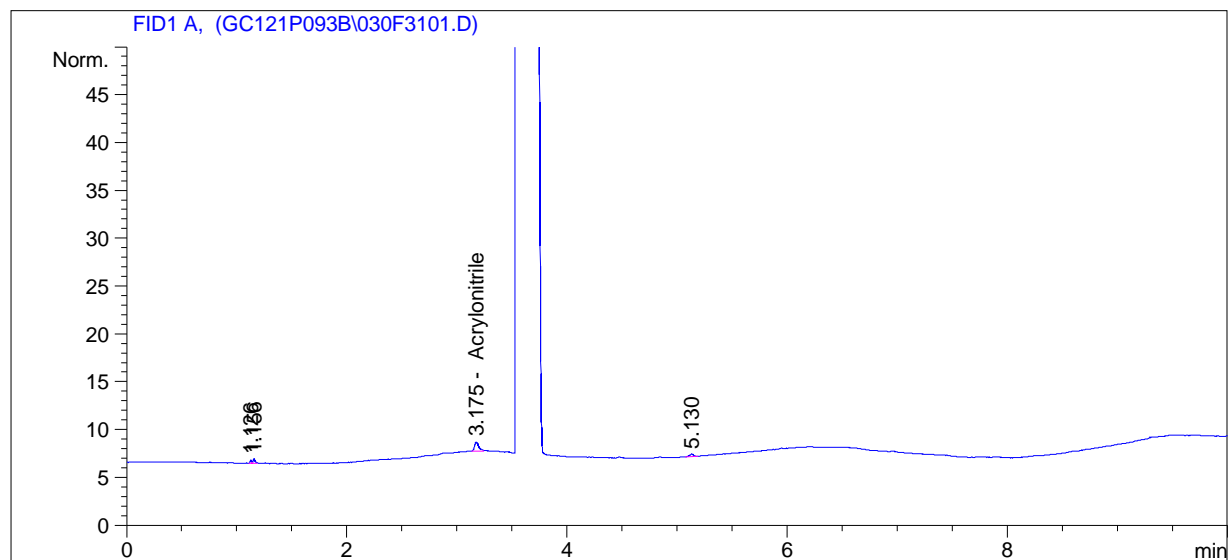
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Sp XAD BH

=====

Acq. Operator	: SJE	Seq. Line	: 31
Acq. Instrument	: Lucy	Location	: Vial 30
Injection Date	: 8/28/2011 9:23:49 PM	Inj	: 1
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.175	BB	2.59012	1.17566	3.04510		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R2 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 3.04510

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

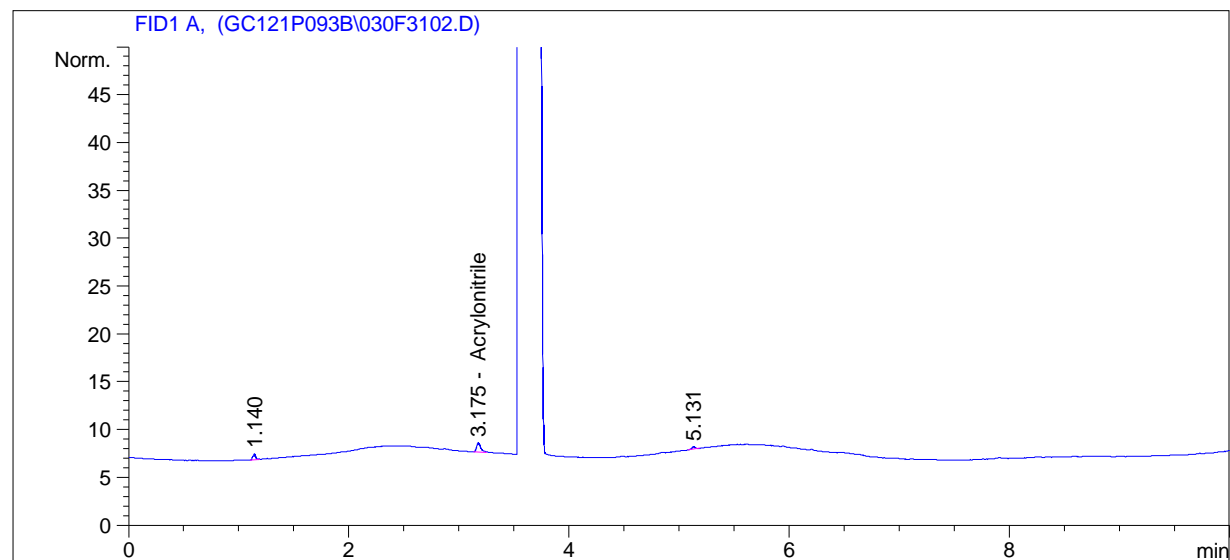
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Sp XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   31
Acq. Instrument : Lucy                             Location  : Vial 30
Injection Date  : 8/28/2011 9:41:39 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:      :      1.0000
Dilution:        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.175	BB	2.40823	1.18074	2.84348		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R2 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.84348

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

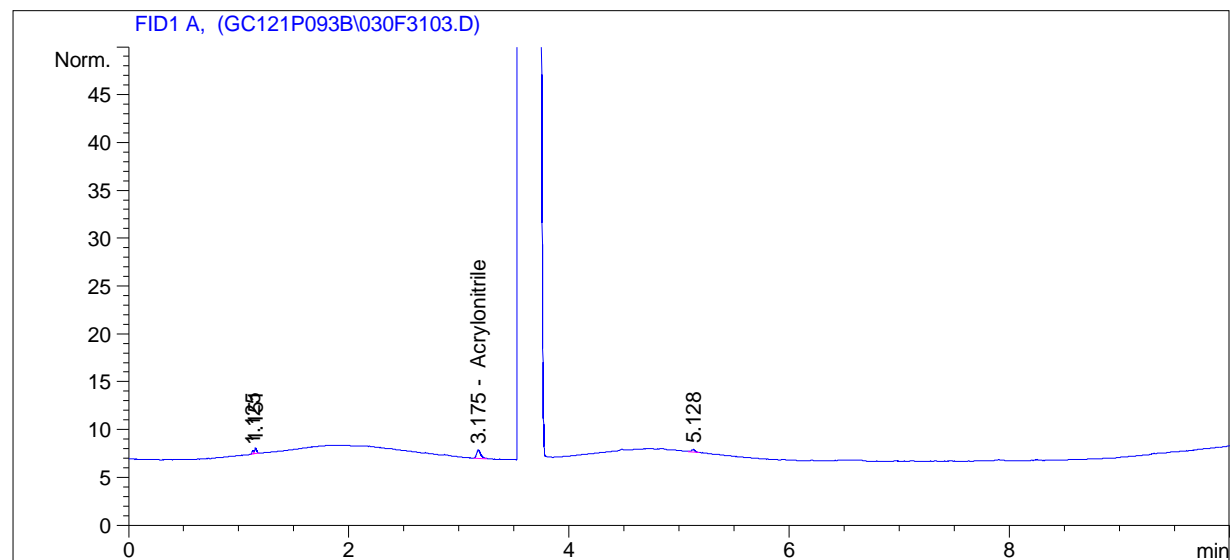
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Sp XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   31
Acq. Instrument : Lucy                             Location  : Vial 30
Injection Date  : 8/28/2011 9:59:30 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.175	BB	2.22665	1.18663	2.64221		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R2 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.64221

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

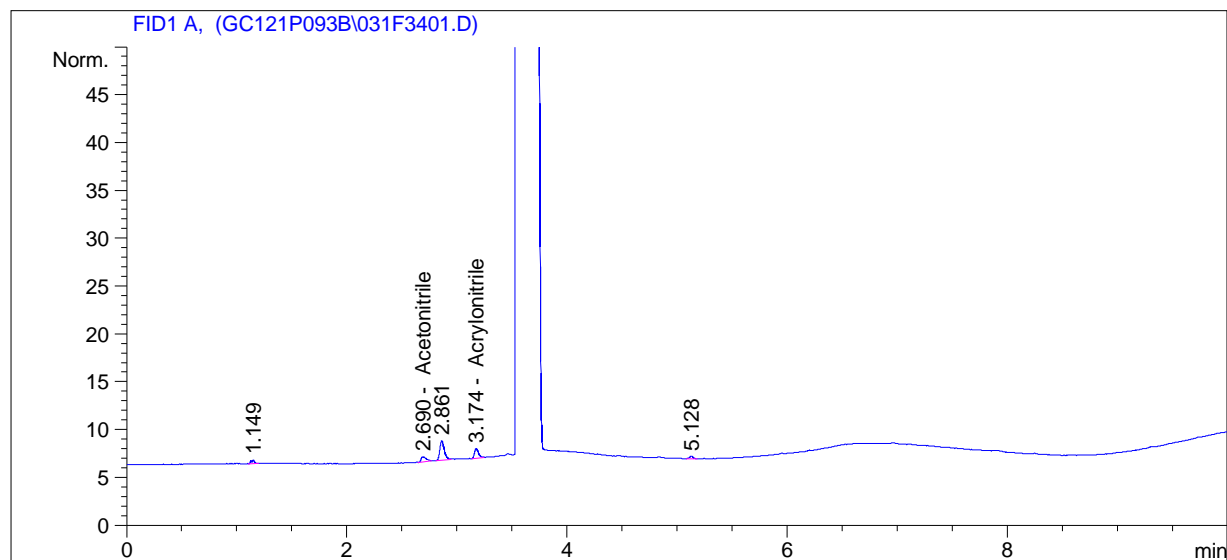
Sample Name: M18 T1R2 Sp CT FH

```

=====
Acq. Operator   : SJE                               Seq. Line :   34
Acq. Instrument : Lucy                             Location  : Vial 31
Injection Date  : 8/29/2011 12:04:19 AM             Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.690	BB	1.84378	2.27623	4.19687		Acetonitrile
3.174	BB	2.51747	1.17760	2.96457		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R2 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 7.16144

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

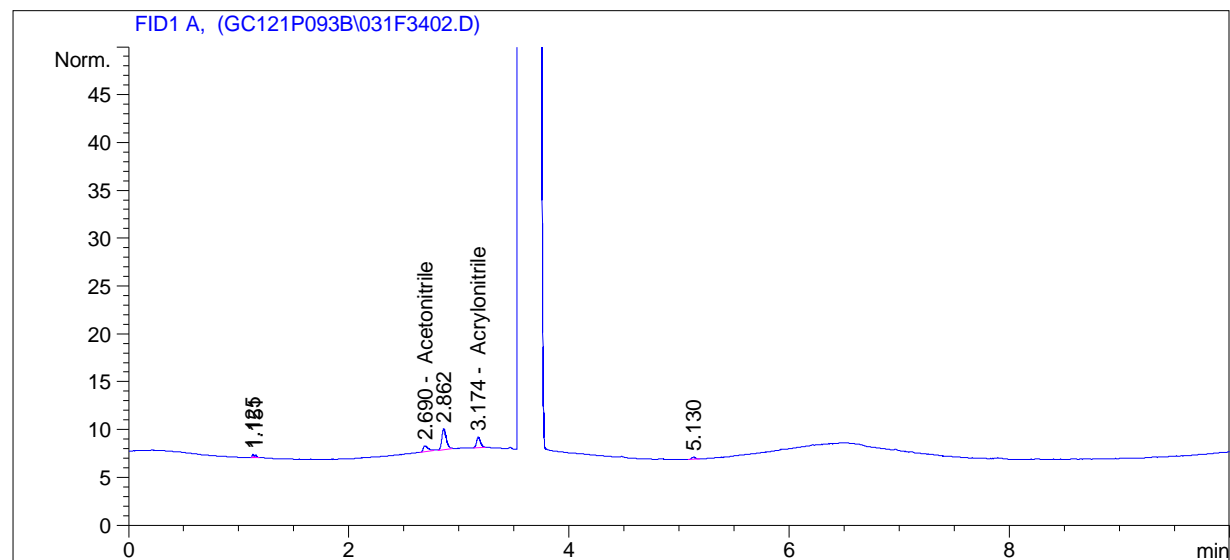
Sample Name: M18 T1R2 Sp CT FH

```

=====
Acq. Operator   : SJE                               Seq. Line :   34
Acq. Instrument : Lucy                             Location  : Vial 31
Injection Date  : 8/29/2011 12:22:12 AM             Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC201103\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC201103\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC201103\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.690	BB	2.06642	2.21689	4.58103		Acetonitrile
3.174	BB	2.83543	1.16985	3.31701		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R2 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 7.89804

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

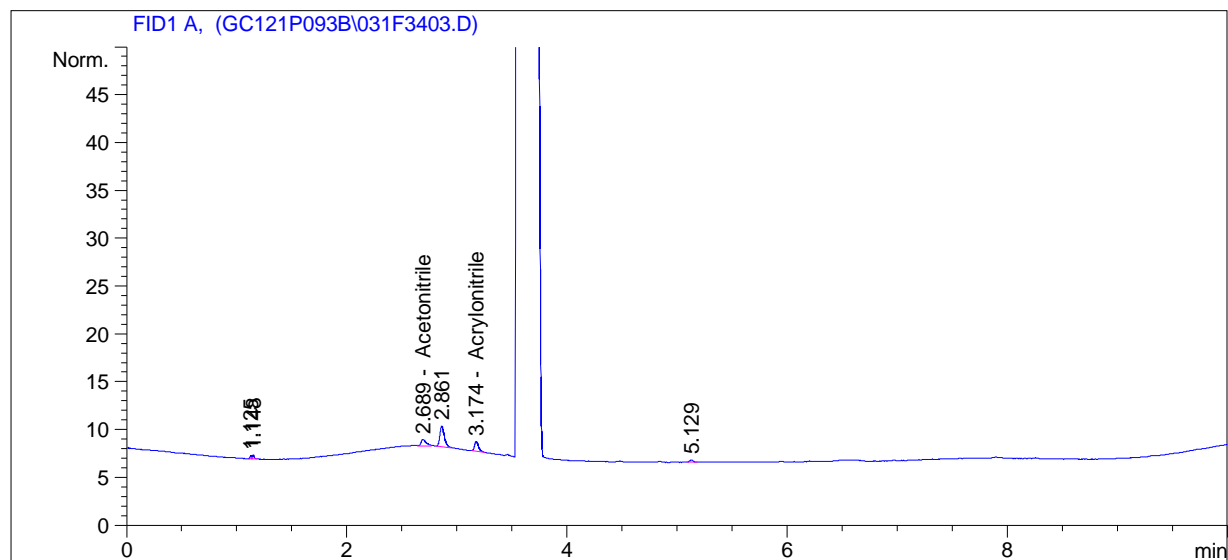
Sample Name: M18 T1R2 Sp CT FH

```

=====
Acq. Operator   : SJE                               Seq. Line :   34
Acq. Instrument : Lucy                             Location  : Vial 31
Injection Date  : 8/29/2011 12:40:00 AM             Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	BB	2.14632	2.19860	4.71890		Acetonitrile
3.174	BB	2.62766	1.17470	3.08671		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

Sample Name: M18 T1R2 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 7.80561

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

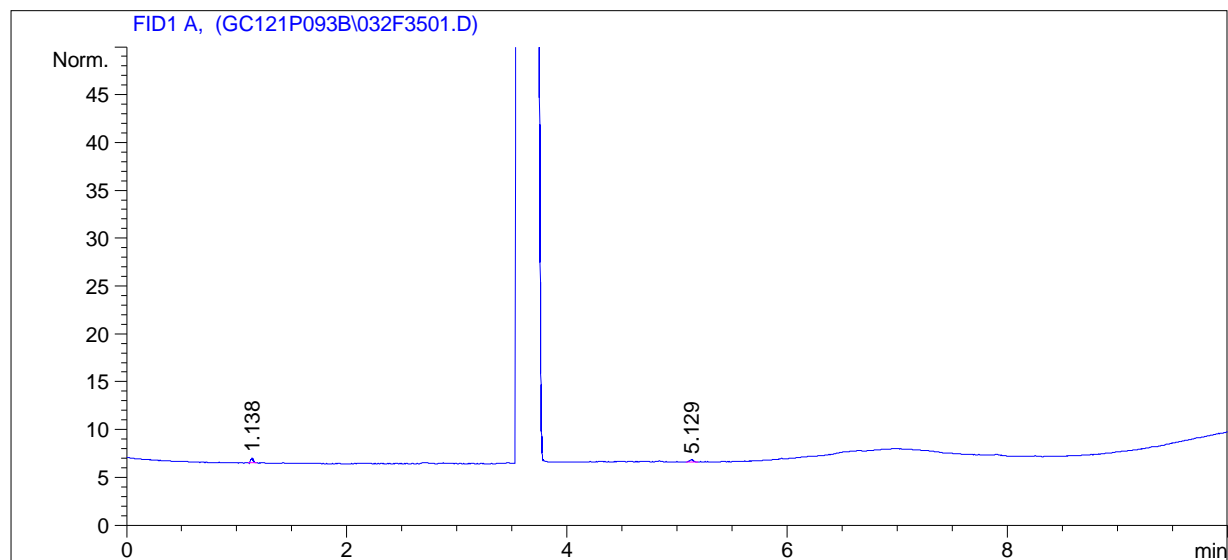
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   35
Acq. Instrument : Lucy                               Location  : Vial 32
Injection Date  : 8/29/2011 12:57:47 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

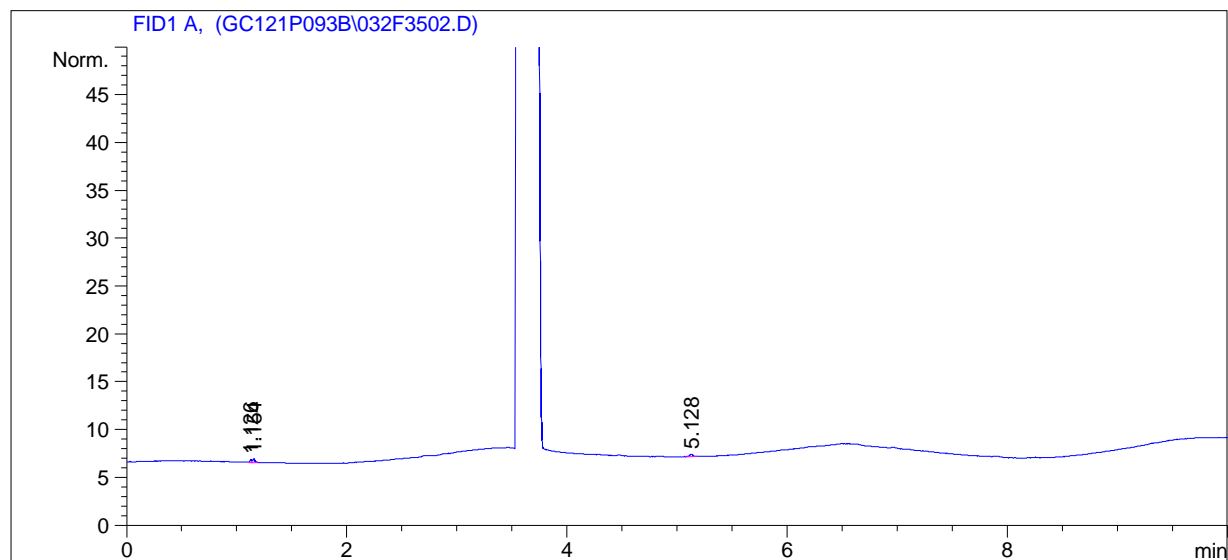
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   35
Acq. Instrument : Lucy                             Location  : Vial 32
Injection Date  : 8/29/2011 1:15:33 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

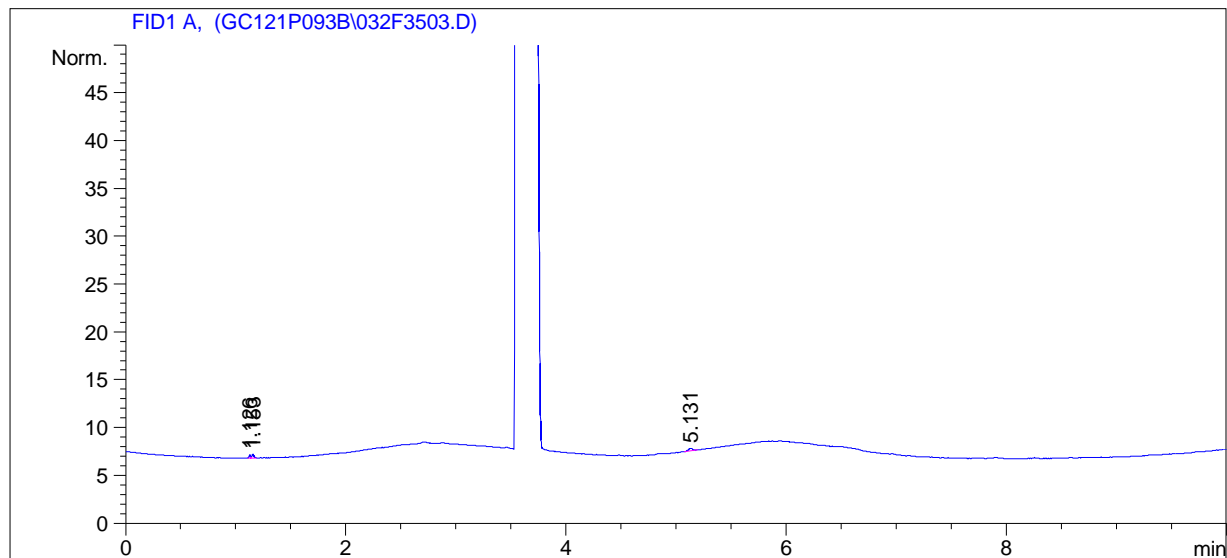
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R2 Sp CT BH

```
=====
Acq. Operator   : SJE                      Seq. Line :   35
Acq. Instrument : Lucy                    Location  : Vial 32
Injection Date  : 8/29/2011 1:33:21 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R2 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

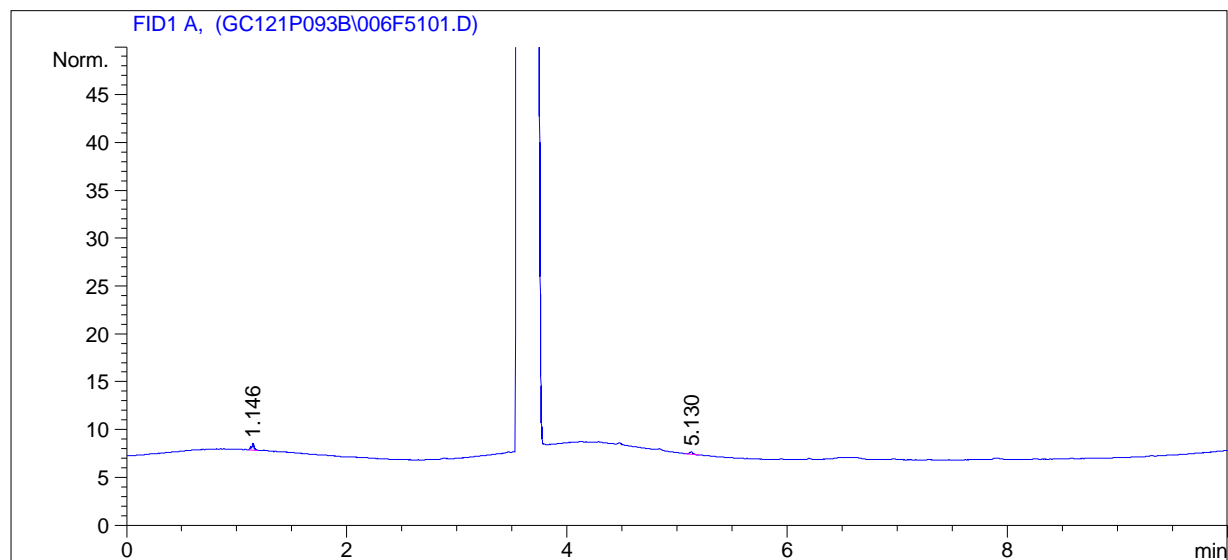
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   51
Acq. Instrument : Lucy                               Location  : Vial  6
Injection Date  : 8/29/2011 3:16:46 PM                Inj       :    1
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

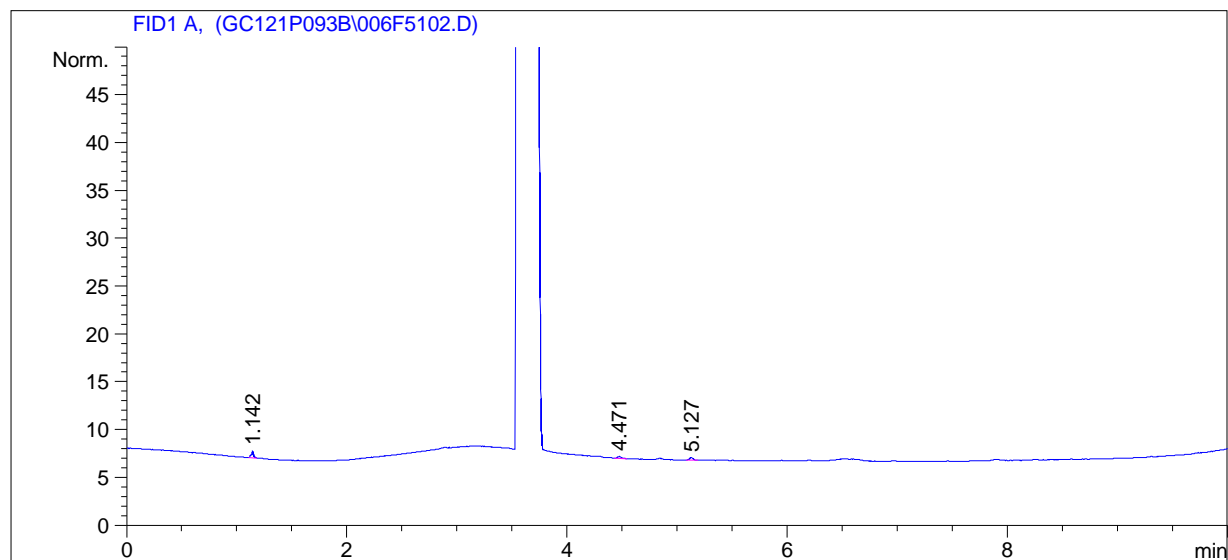
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   51
Acq. Instrument : Lucy                               Location  : Vial  6
Injection Date  : 8/29/2011 3:34:41 PM                Inj       :    2
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

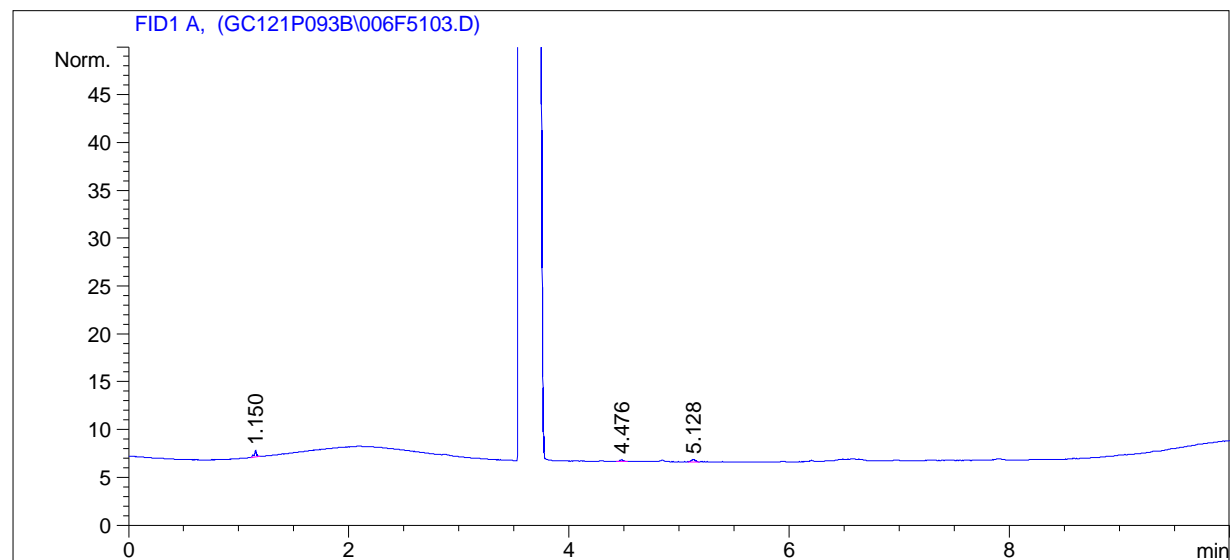
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 UnSpkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   51
Acq. Instrument : Lucy                             Location  : Vial  6
Injection Date  : 8/29/2011 3:52:40 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 UnSpkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

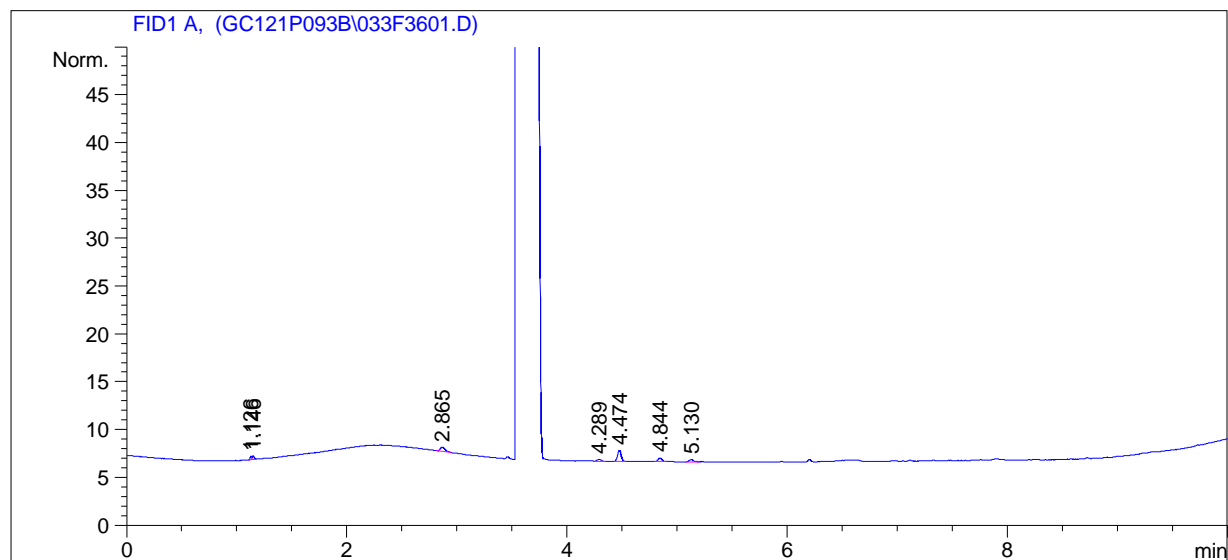
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   36
Acq. Instrument : Lucy                             Location  : Vial 33
Injection Date  : 8/29/2011 1:51:18 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R3 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

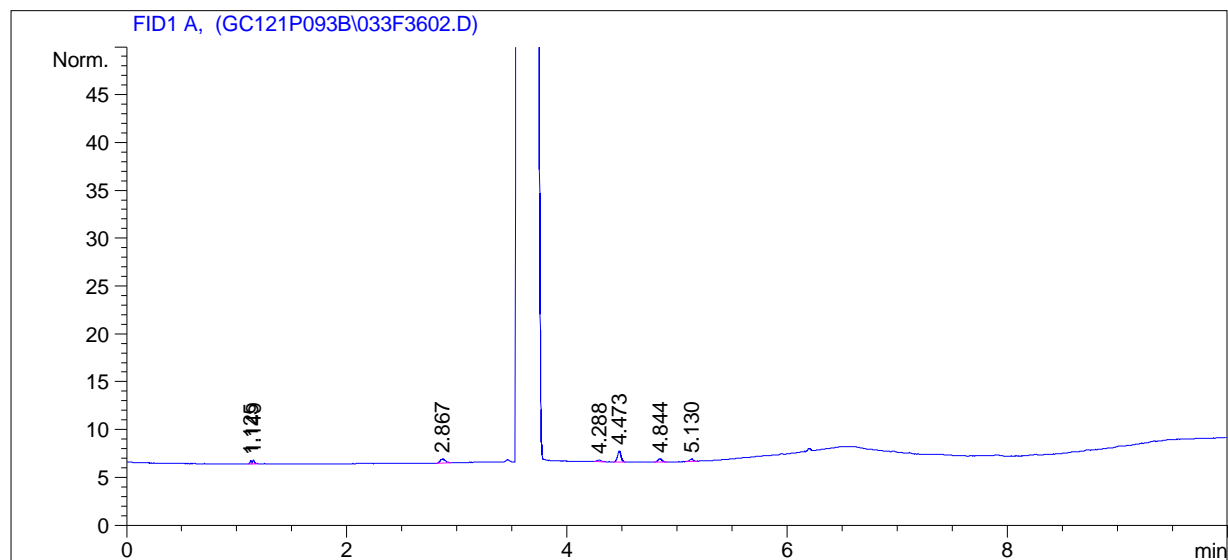
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   36
Acq. Instrument : Lucy                             Location  : Vial 33
Injection Date  : 8/29/2011 2:09:16 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

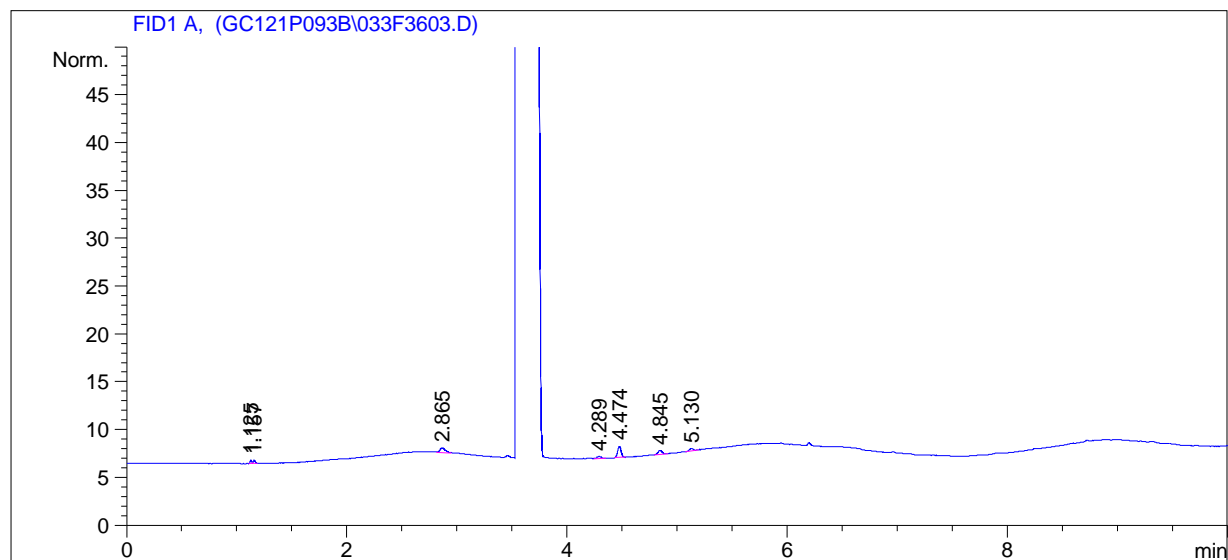
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U XAD FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   36
Acq. Instrument : Lucy                             Location  : Vial 33
Injection Date  : 8/29/2011 2:27:10 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

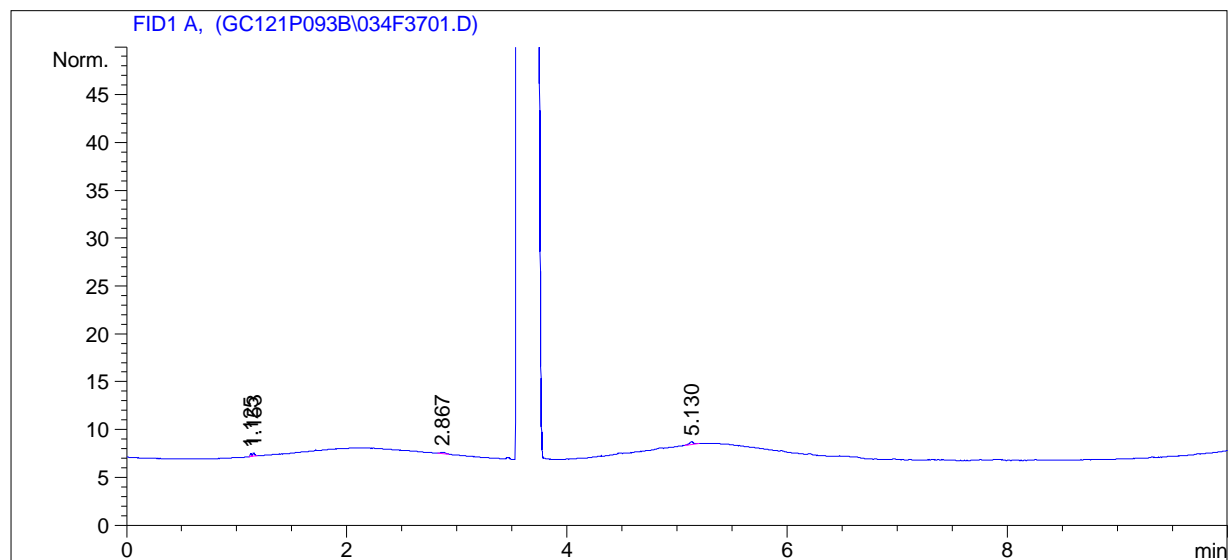
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   37
Acq. Instrument : Lucy                             Location  : Vial 34
Injection Date  : 8/29/2011 2:45:03 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

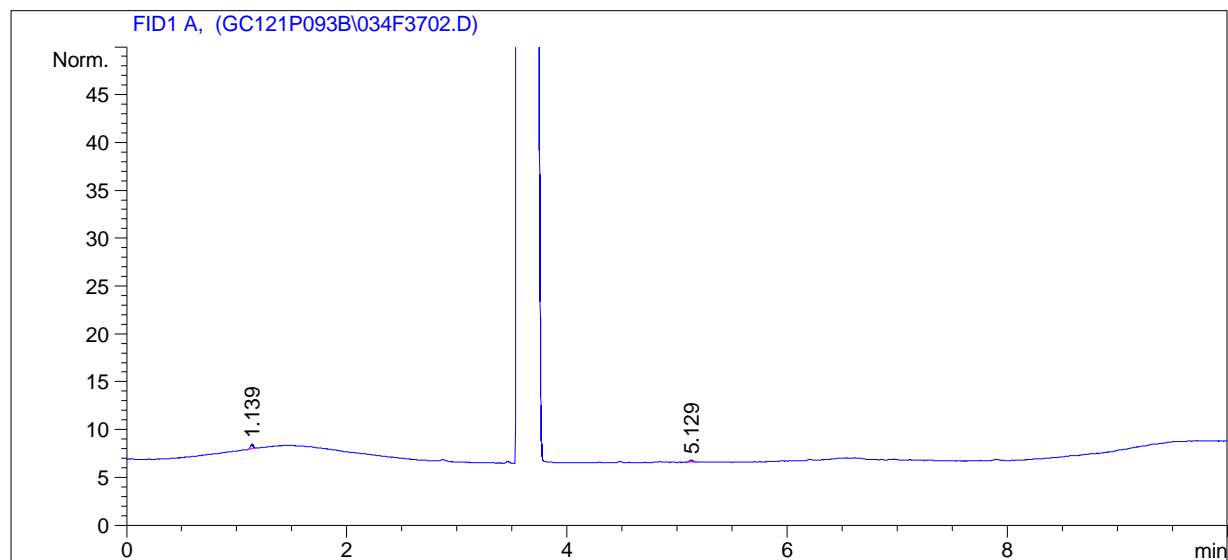
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U XAD BH

```
=====
Acq. Operator   : SJE                      Seq. Line :   37
Acq. Instrument : Lucy                    Location  : Vial 34
Injection Date  : 8/29/2011 3:02:54 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

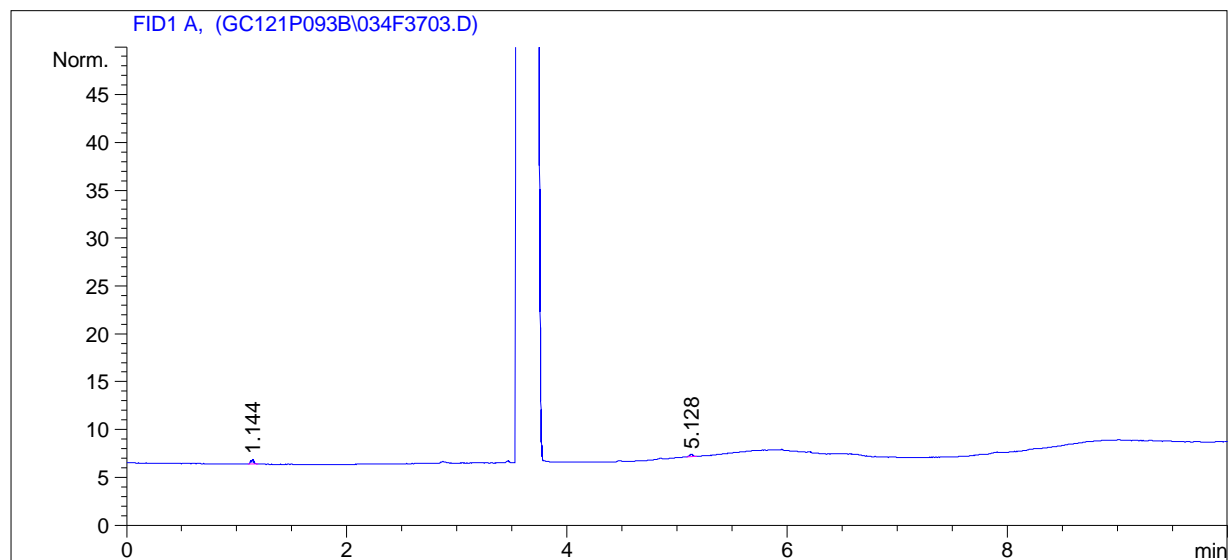
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   37
Acq. Instrument : Lucy                               Location  : Vial 34
Injection Date  : 8/29/2011 3:20:42 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

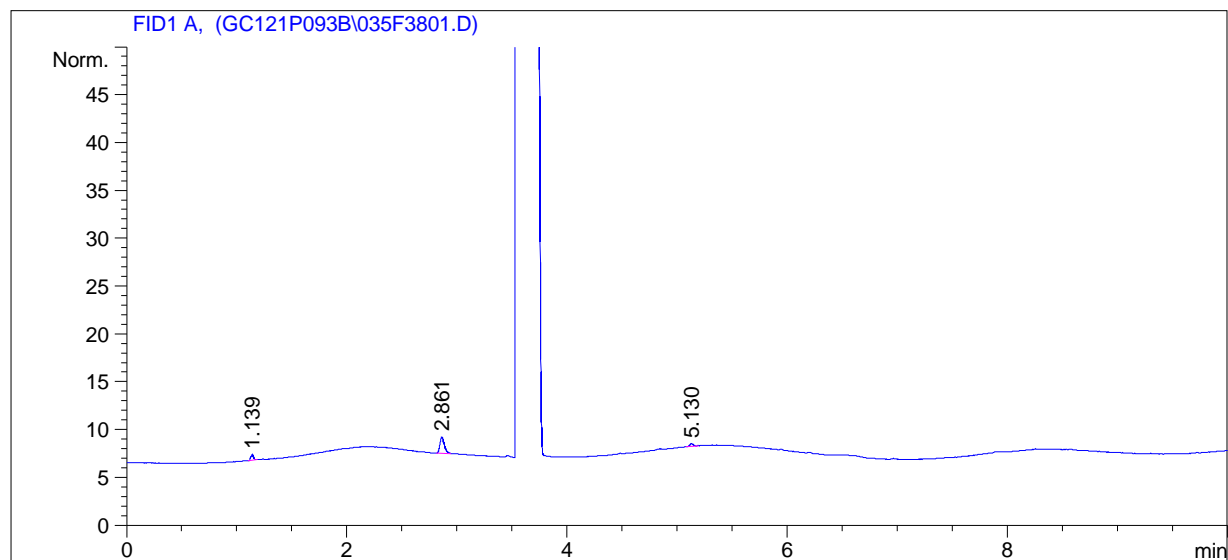
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   38
Acq. Instrument : Lucy                             Location  : Vial 35
Injection Date  : 8/29/2011 3:38:33 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

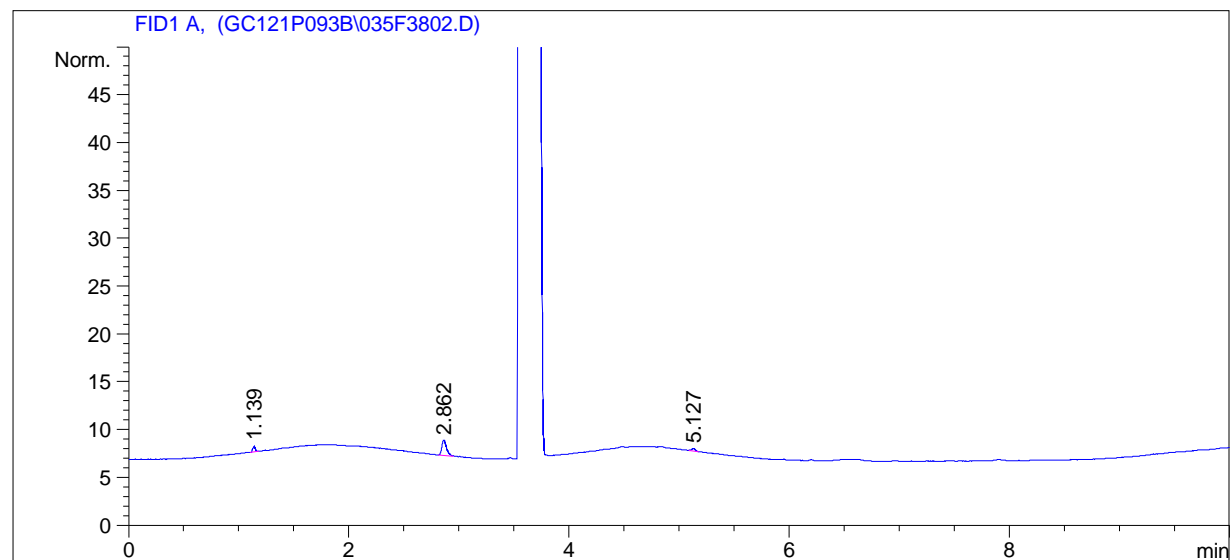
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   38
Acq. Instrument : Lucy                             Location  : Vial 35
Injection Date  : 8/29/2011 3:56:21 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

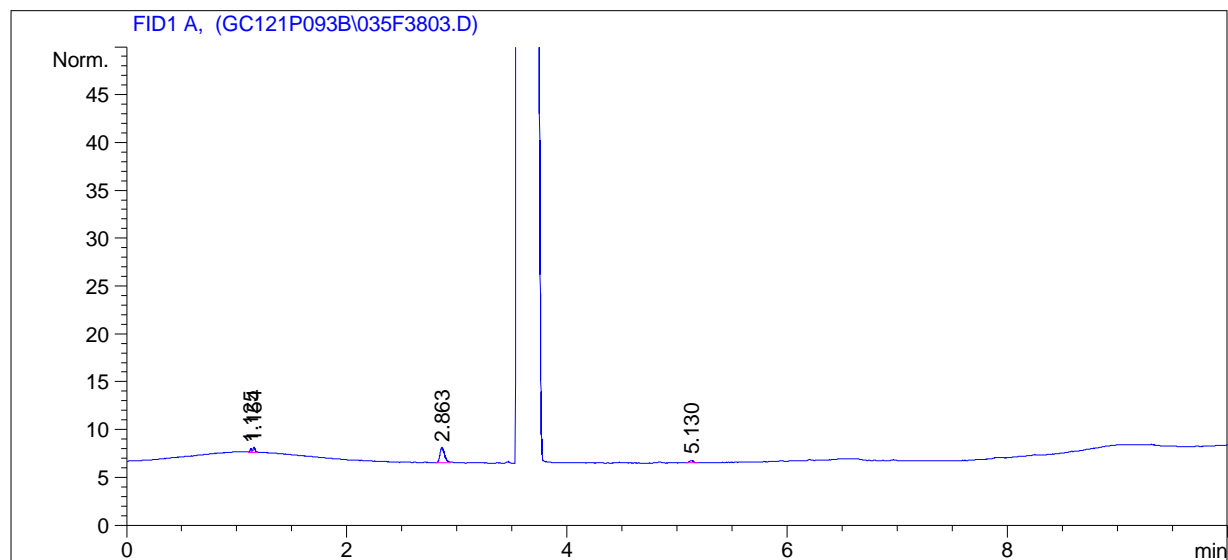
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U CT FH

```
=====
Acq. Operator   : SJE                               Seq. Line :   38
Acq. Instrument : Lucy                             Location  : Vial 35
Injection Date  : 8/29/2011 4:14:09 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

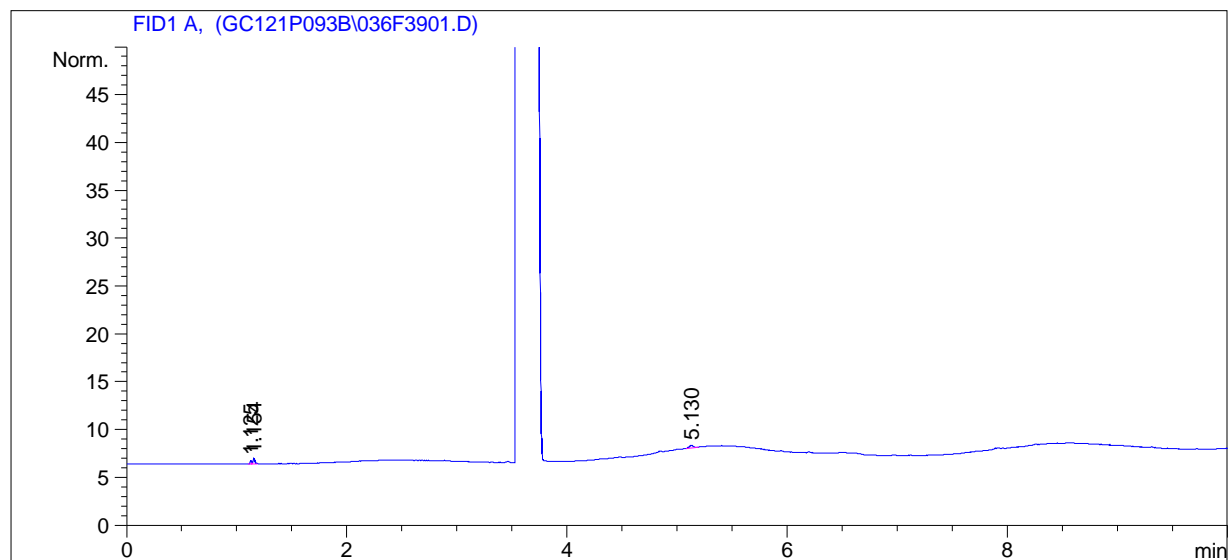
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   39
Acq. Instrument : Lucy                               Location  : Vial 36
Injection Date  : 8/29/2011 4:32:00 AM                Inj       :    1
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

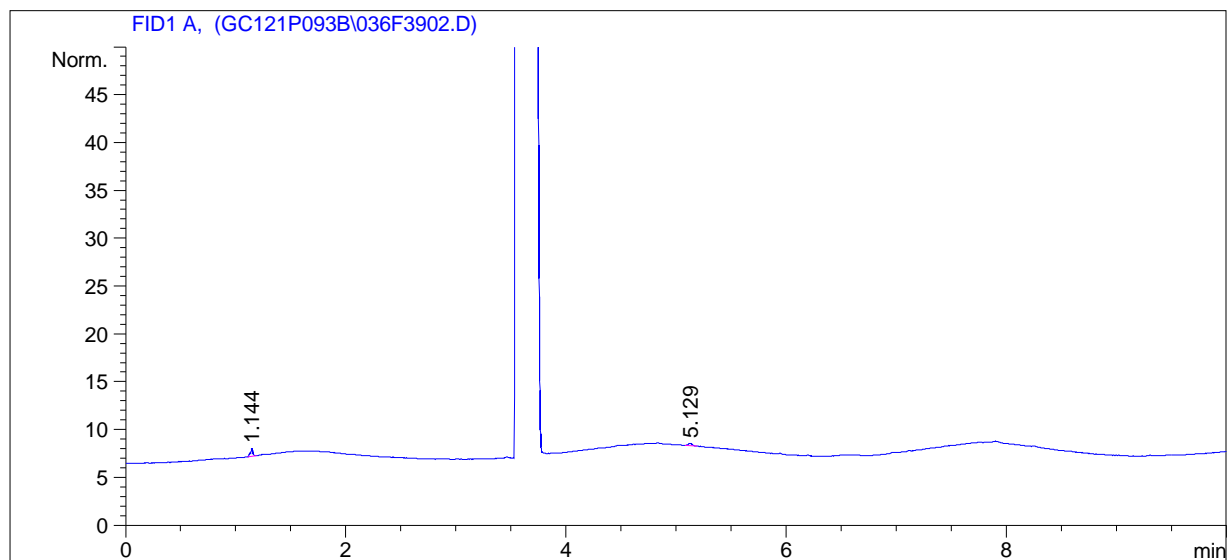
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   39
Acq. Instrument : Lucy                             Location  : Vial 36
Injection Date  : 8/29/2011 4:49:53 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R3 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

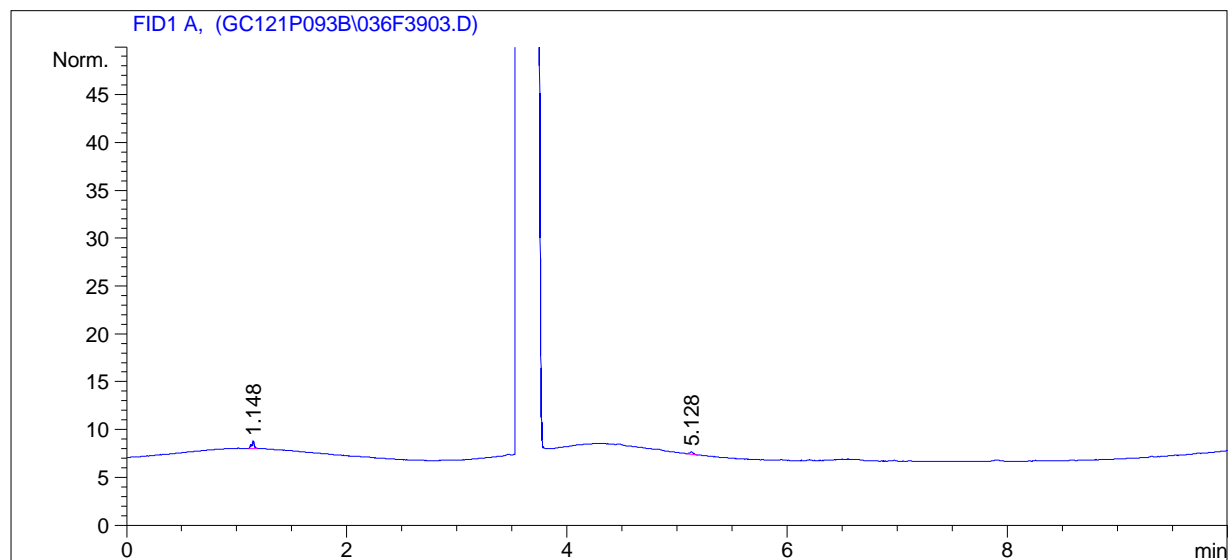
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 U CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   39
Acq. Instrument : Lucy                             Location  : Vial 36
Injection Date  : 8/29/2011 5:07:42 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 U CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.51410

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

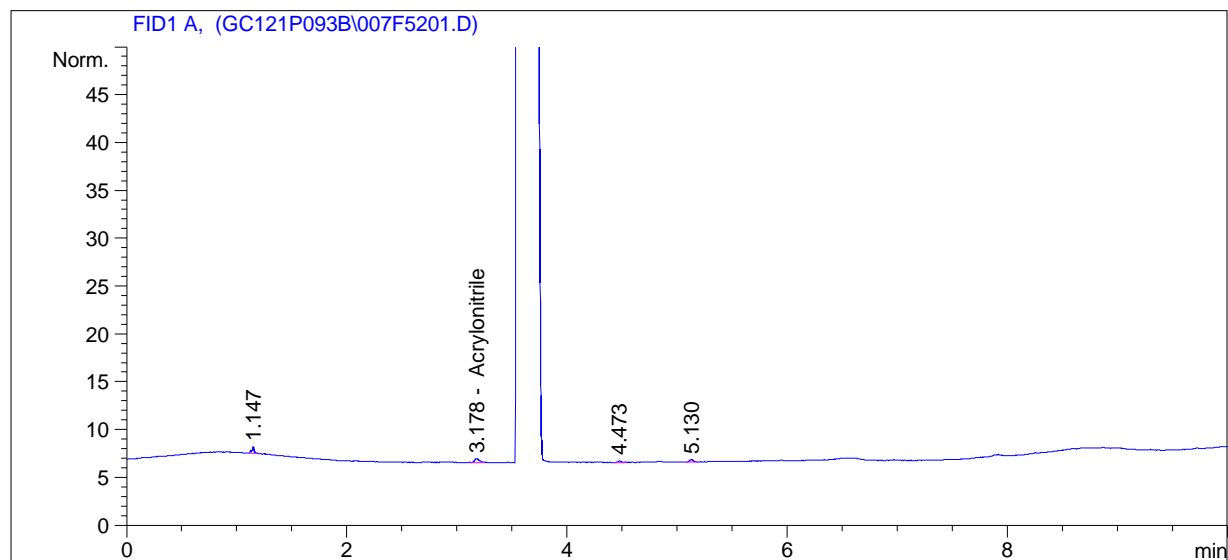
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Spkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   52
Acq. Instrument : Lucy                               Location  : Vial 7
Injection Date  : 8/29/2011 4:10:46 PM                Inj       :    1
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

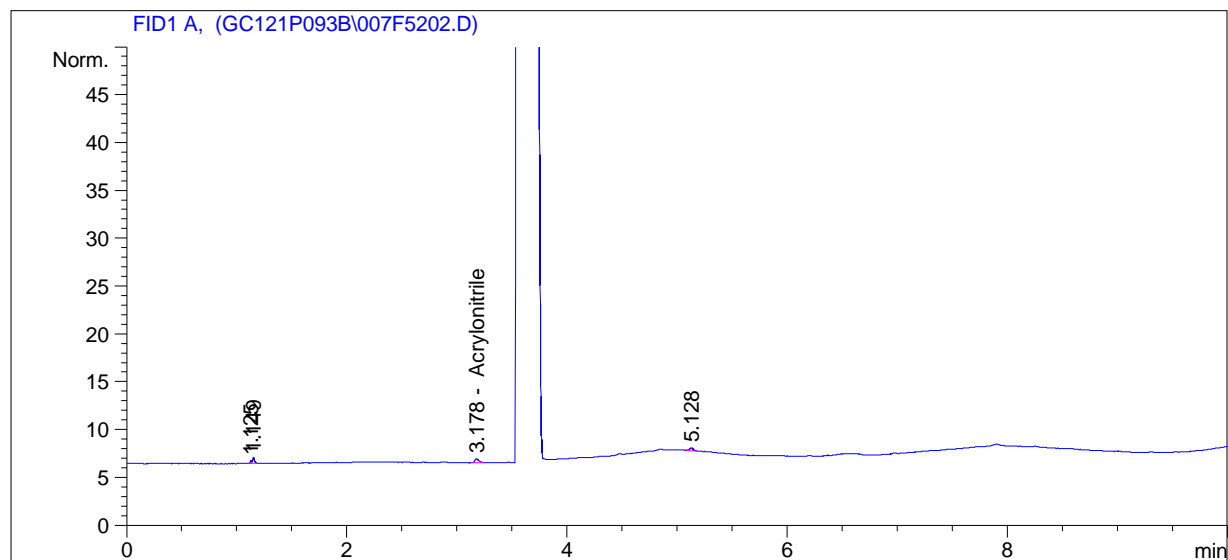
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetonitrile
3.178	BB	1.21440	1.24679	1.51410		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Spkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   52
Acq. Instrument : Lucy                             Location  : Vial  7
Injection Date  : 8/29/2011 4:28:43 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.178	BB	1.14087	1.24679	1.42242		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.42242

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

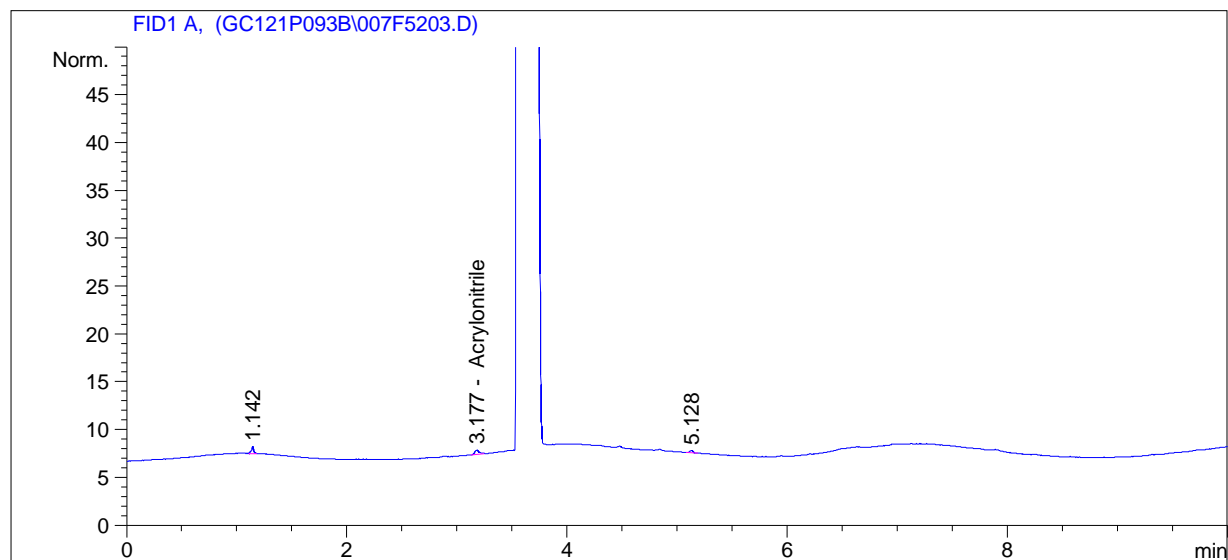
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Spkd Cond. CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   52
Acq. Instrument : Lucy                             Location  : Vial 7
Injection Date  : 8/29/2011 4:46:44 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC201103\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC201103\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC201103\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.177	BB	1.22519	1.24679	1.52756		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Spkd Cond. CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.52756

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

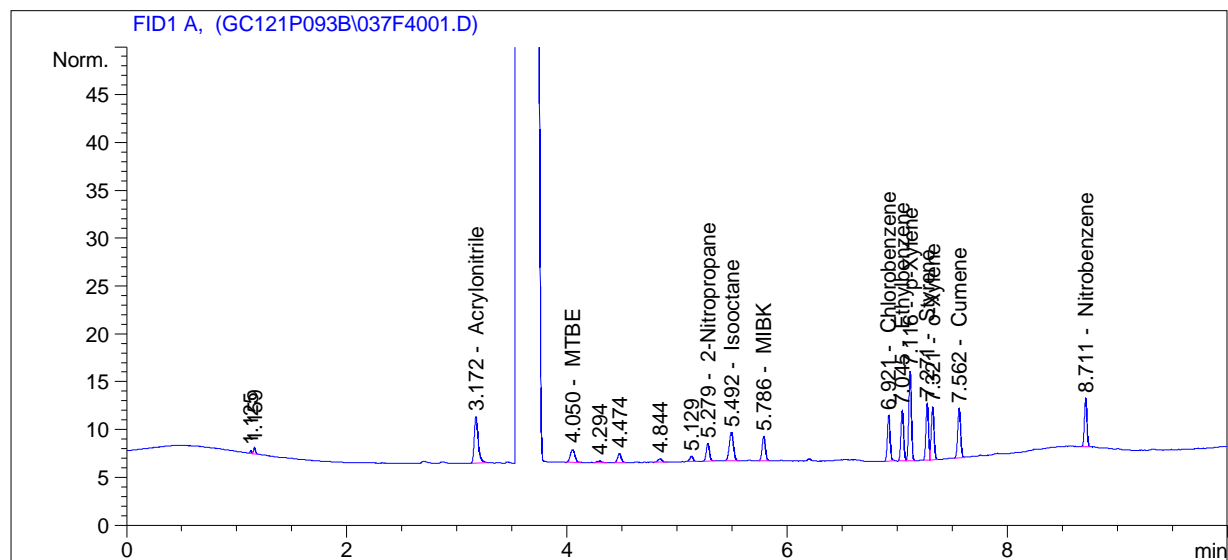
Sample Name: M18 T1R3 Sp XAD FH

```

=====
Acq. Operator   : SJE                      Seq. Line :   40
Acq. Instrument : Lucy                    Location  : Vial 37
Injection Date  : 8/29/2011 5:25:32 AM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC201103\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC201103\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC201103\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.172	BB	11.87588	1.12310	13.33785		Acrylonitrile
4.050	BB	3.95270	9.41470e-1	3.72135		MTBE
5.279	BB	3.76992	1.19969	4.52273		2-Nitropropane
5.492	BB	7.75128	5.40725e-1	4.19131		Isooctane
5.786	BB	5.19785	7.47869e-1	3.88731		MIBK
6.921	BB	8.14520	6.85702e-1	5.58518		Chlorobenzene
7.045	BV	9.01792	4.98244e-1	4.49312		Ethylbenzene
7.116	VB	15.44323	4.93490e-1	7.62108		p-Xylene
7.271	BV	9.65172	4.78242e-1	4.61585		Styrene
7.321	VB	9.59005	4.82211e-1	4.62443		o-Xylene
7.562	BB	9.48907	4.91193e-1	4.66097		Cumene

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:33:16 PM

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Sample Name: M18 T1R3 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.711	BB	8.14739	7.68428e-1	6.26068		Ni trobenzene

Totals : 67.52186

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

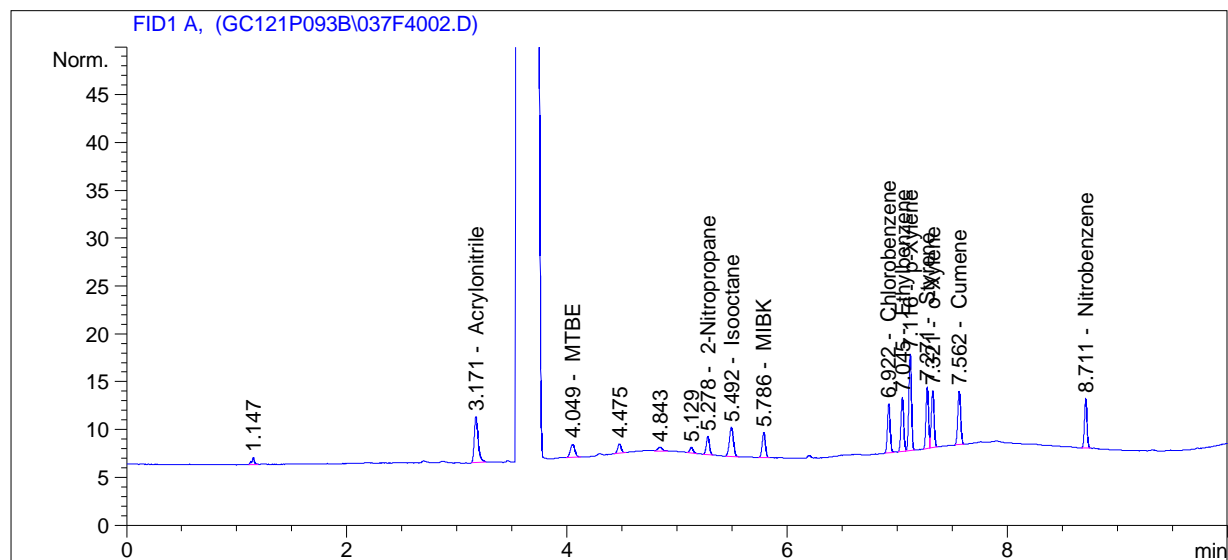
Sample Name: M18 T1R3 Sp XAD FH

```

=====
Acq. Operator   : SJE                               Seq. Line :   40
Acq. Instrument : Lucy                             Location  : Vial 37
Injection Date  : 8/29/2011 5:43:23 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC201103\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC201103\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC201103\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetonitrile
3.171	BB	11.77679	1.12323	13.22801		Acrylonitrile
4.049	BB	4.04485	9.41680e-1	3.80896		MTBE
5.278	BB	3.78542	1.19978	4.54168		2-Nitropropane
5.492	BB	7.79582	5.40808e-1	4.21604		Isooctane
5.786	BB	5.29557	7.48314e-1	3.96275		MIBK
6.922	BB	8.75581	6.86233e-1	6.00853		Chlorobenzene
7.045	BV	9.70099	4.98158e-1	4.83262		Ethylbenzene
7.116	VB	16.67235	4.93483e-1	8.22752		p-Xylene
7.271	BV	10.45753	4.78320e-1	5.00204		Styrene
7.321	VB	10.39102	4.82445e-1	5.01309		o-Xylene
7.562	BB	10.32652	4.91007e-1	5.07039		Cumene

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Sample Name: M18 T1R3 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.711	BB	8.18906	7.68473e-1	6.29307		Ni trobenzene

Totals : 70.20470

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

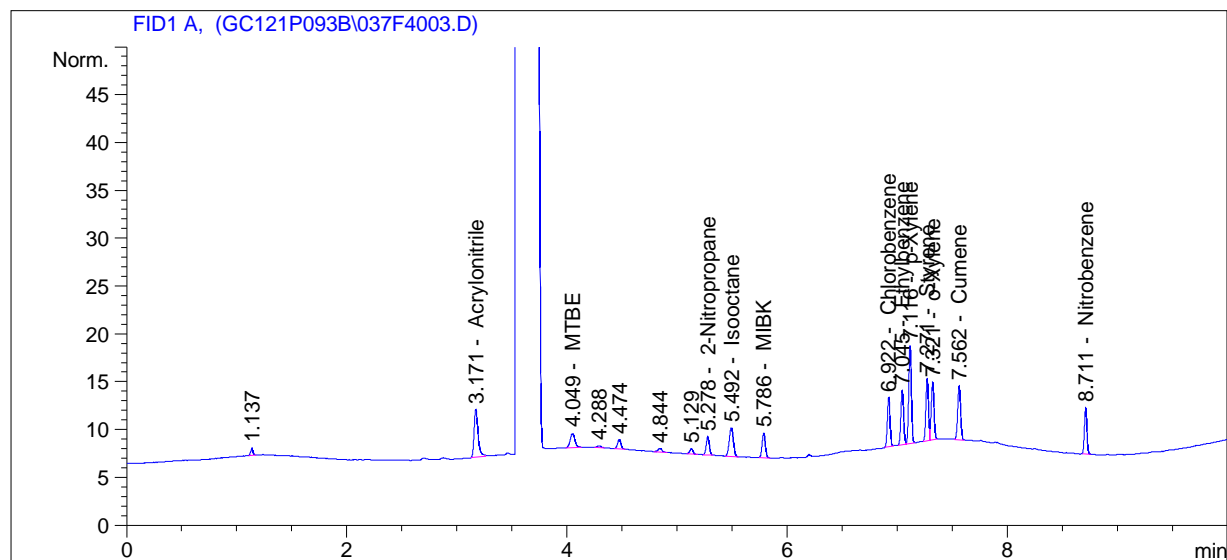
Sample Name: M18 T1R3 Sp XAD FH

```

=====
Acq. Operator   : SJE                               Seq. Line :   40
Acq. Instrument : Lucy                             Location  : Vial 37
Injection Date  : 8/29/2011 6:01:08 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



=====

External Standard Report

=====

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.171	BB	12.22168	1.12269	13.72115		Acrylonitrile
4.049	BB	4.38618	9.42380e-1	4.13345		MTBE
5.278	BB	3.77034	1.19969	4.52324		2-Nitropropane
5.492	BB	7.83229	5.40875e-1	4.23629		Isooctane
5.786	BB	5.20755	7.47914e-1	3.89480		MIBK
6.922	BB	8.70425	6.86192e-1	5.97278		Chlorobenzene
7.045	BV	9.82306	4.98144e-1	4.89330		Ethylbenzene
7.116	VB	16.85269	4.93482e-1	8.31650		p-Xylene
7.271	BV	10.66815	4.78338e-1	5.10298		Styrene
7.321	VB	10.66053	4.82515e-1	5.14387		o-Xylene
7.562	BB	10.41277	4.90989e-1	5.11256		Cumene

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FSD 1108-200

FHR Pine Bend LLC
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Sample Name: M18 T1R3 Sp XAD FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.711	BB	7.72166	7.67934e-1	5.92972		Ni trobenzene

Totals : 70.98064

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

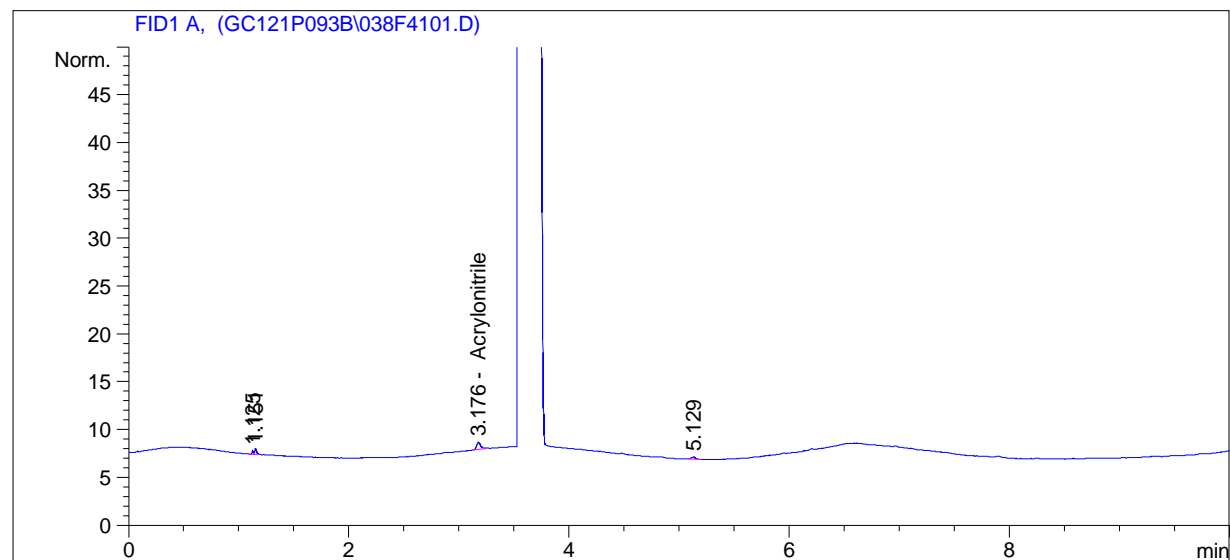
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Sp XAD BH

=====

Acq. Operator	: SJE	Seq. Line	: 41
Acq. Instrument	: Lucy	Location	: Vial 38
Injection Date	: 8/29/2011 6:18:57 AM	Inj	: 1
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.176	BB	1.96097	1.19723	2.34773		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.34773

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

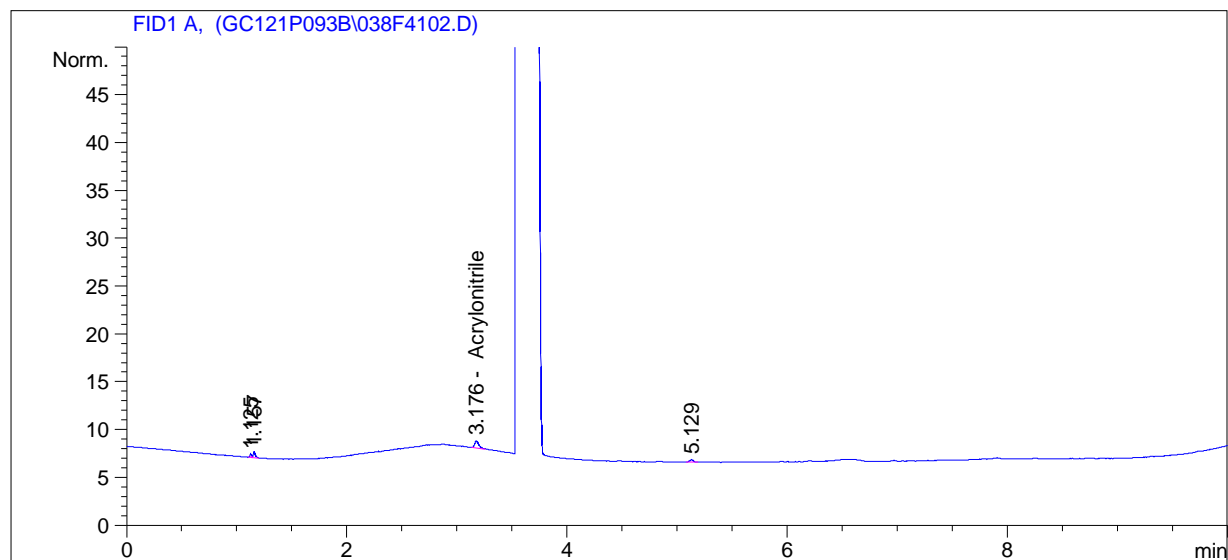
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Sp XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   41
Acq. Instrument : Lucy                             Location  : Vial 38
Injection Date  : 8/29/2011 6:36:49 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.176	BB	2.01922	1.19466	2.41230		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.41230

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

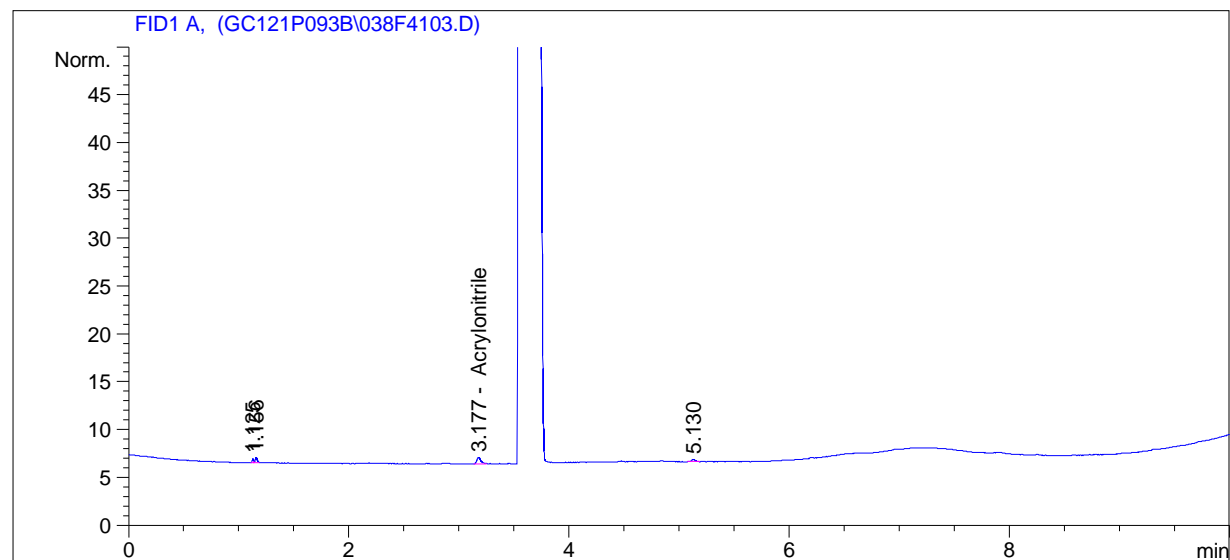
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Sp XAD BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   41
Acq. Instrument : Lucy                               Location  : Vial 38
Injection Date  : 8/29/2011 6:54:36 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.177	BB	1.69887	1.21092	2.05720		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Sp XAD BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.05720

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

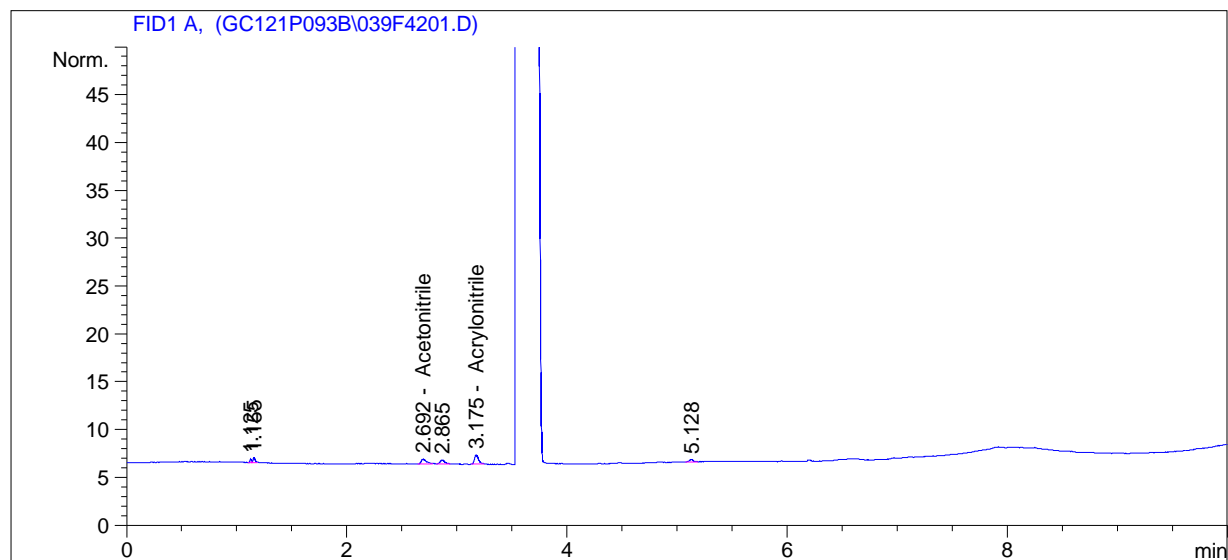
Sample Name: M18 T1R3 Sp CT FH

```

=====
Acq. Operator   : SJE                               Seq. Line :   42
Acq. Instrument : Lucy                             Location  : Vial 39
Injection Date  : 8/29/2011 7:12:25 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	BB	1.52065	2.39326	3.63931		Acetonitrile
3.175	BB	2.51739	1.17760	2.96448		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 6.60380

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

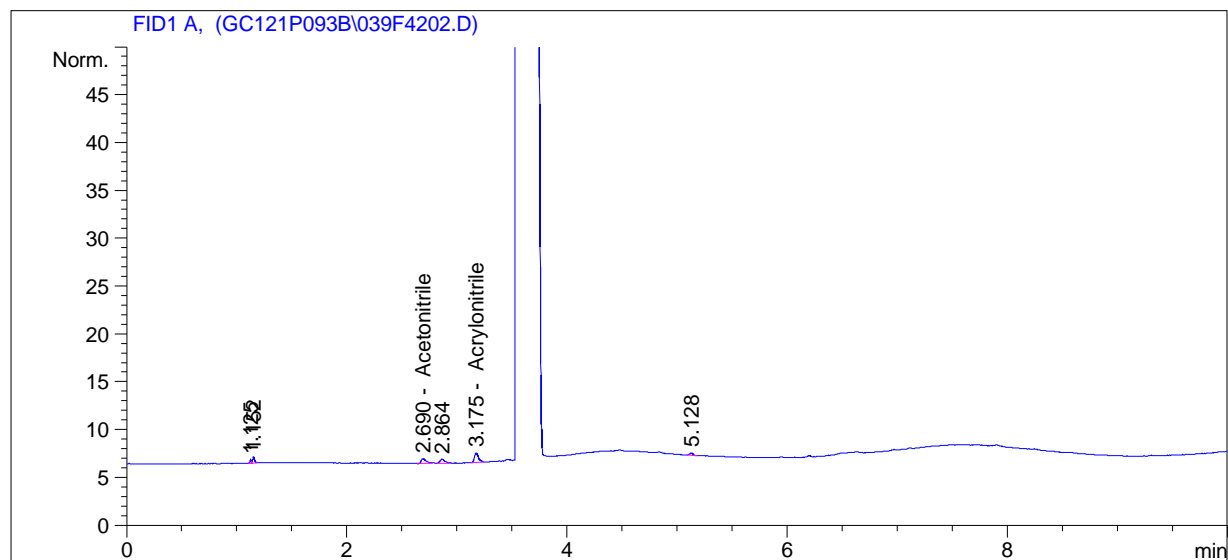
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Sp CT FH

=====

Acq. Operator	: SJE	Seq. Line	: 42
Acq. Instrument	: Lucy	Location	: Vial 39
Injection Date	: 8/29/2011 7:30:13 AM	Inj	: 2
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.690	BB	1.47425	2.41427	3.55925		Acetonitrile
3.175	BB	2.43062	1.18007	2.86830		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 6.42755

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

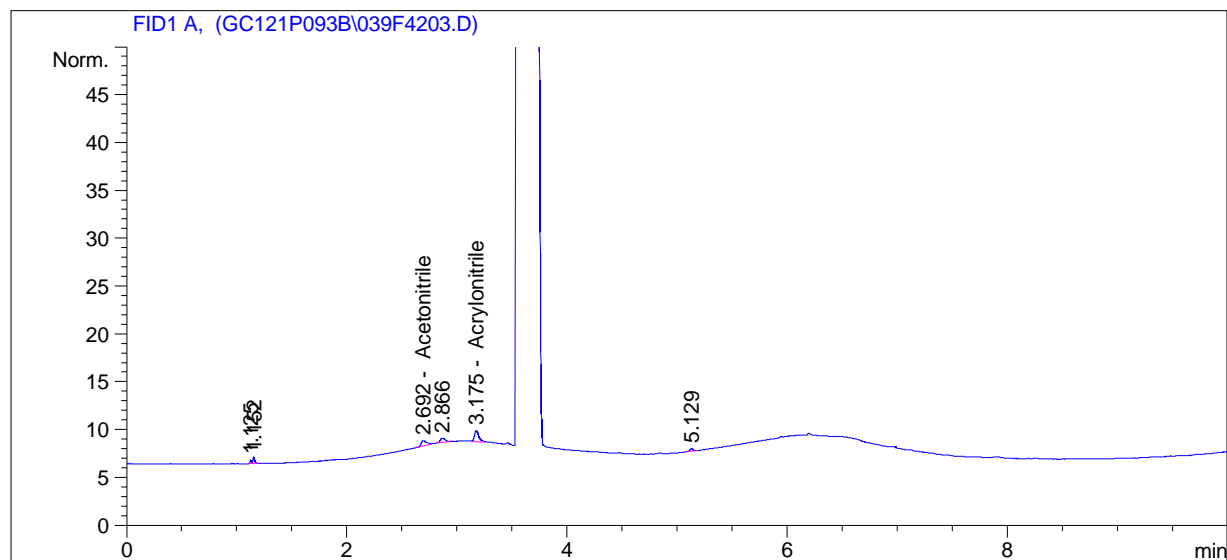
=====
*** End of Report ***

Sample Name: M18 T1R3 Sp CT FH

=====

Acq. Operator	: SJE	Seq. Line	: 42
Acq. Instrument	: Lucy	Location	: Vial 39
Injection Date	: 8/29/2011 7:48:02 AM	Inj	: 3
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		

=====



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	BB	1.82733	2.28119	4.16849		Acetonitrile
3.175	BB	3.17224	1.16333	3.69035		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R3 Sp CT FH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 7.85884

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

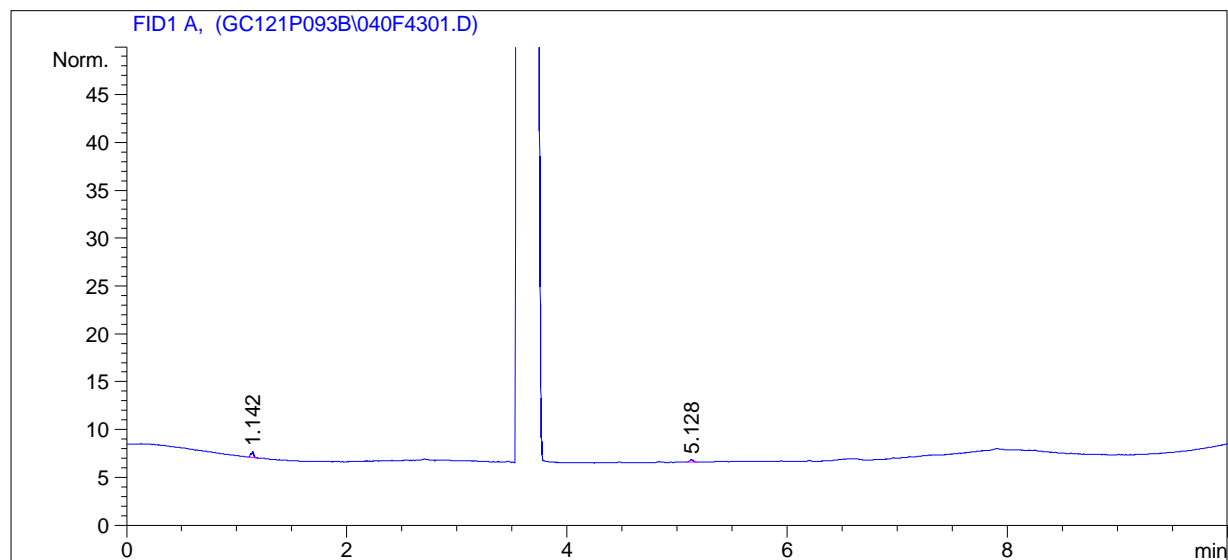
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   43
Acq. Instrument : Lucy                             Location  : Vial 40
Injection Date  : 8/29/2011 8:05:50 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R3 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

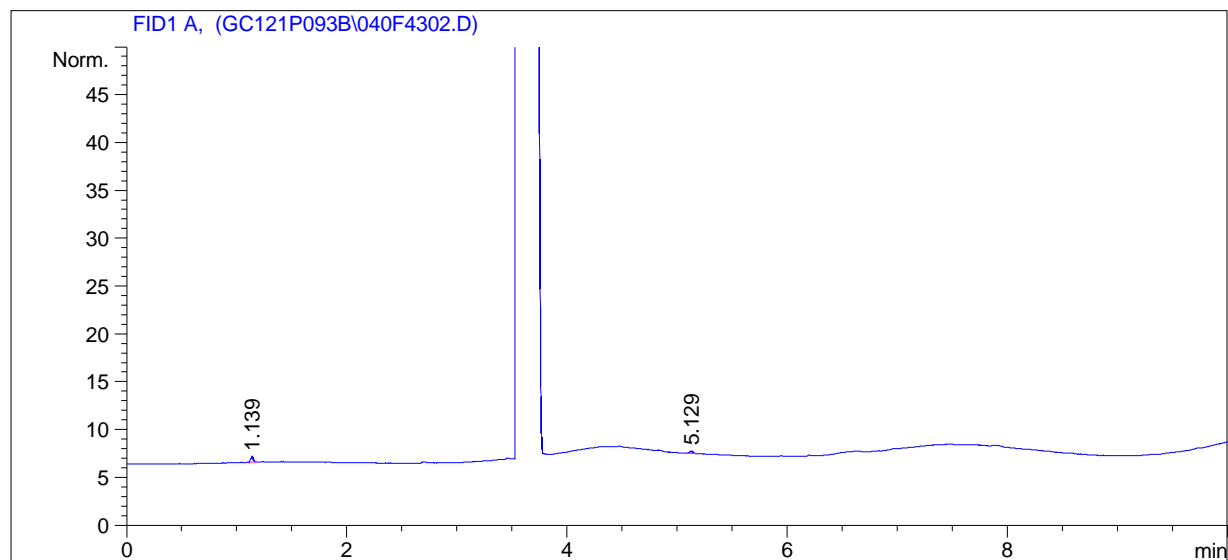
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   43
Acq. Instrument : Lucy                               Location  : Vial 40
Injection Date  : 8/29/2011 8:23:38 AM                Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R3 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

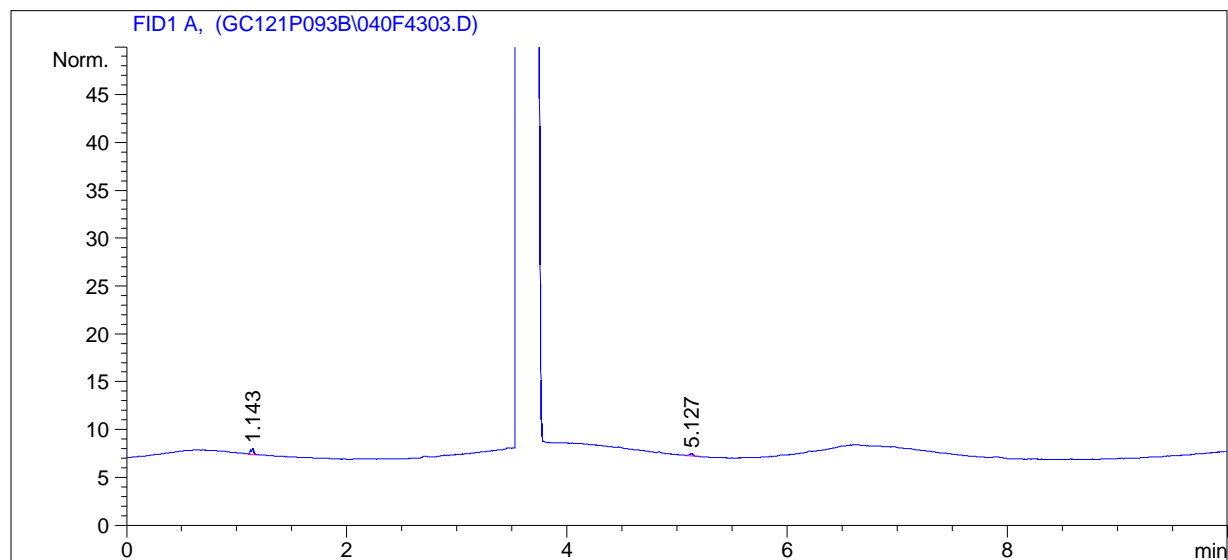
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R3 Sp CT BH

```
=====
Acq. Operator   : SJE                               Seq. Line :   43
Acq. Instrument : Lucy                             Location  : Vial 40
Injection Date  : 8/29/2011 8:41:30 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R3 Sp CT BH

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

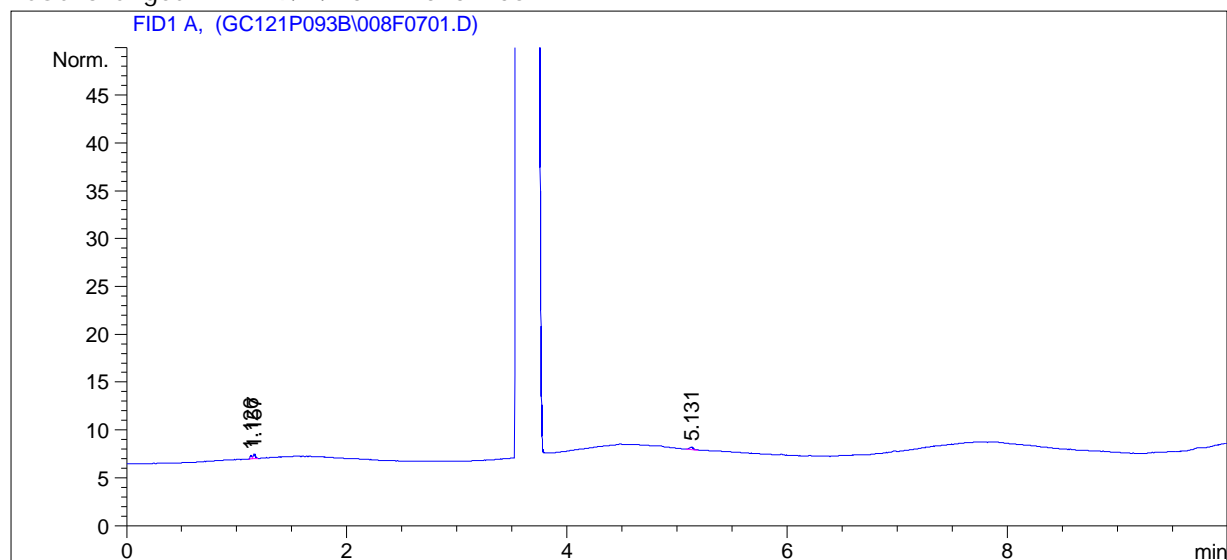
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: CS2 blank

=====

Acq. Operator	: SJE	Seq. Line	: 7
Acq. Instrument	: Lucy	Location	: Vial 8
Injection Date	: 8/27/2011 11:54:19 PM	Inj	: 1
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl orobenzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

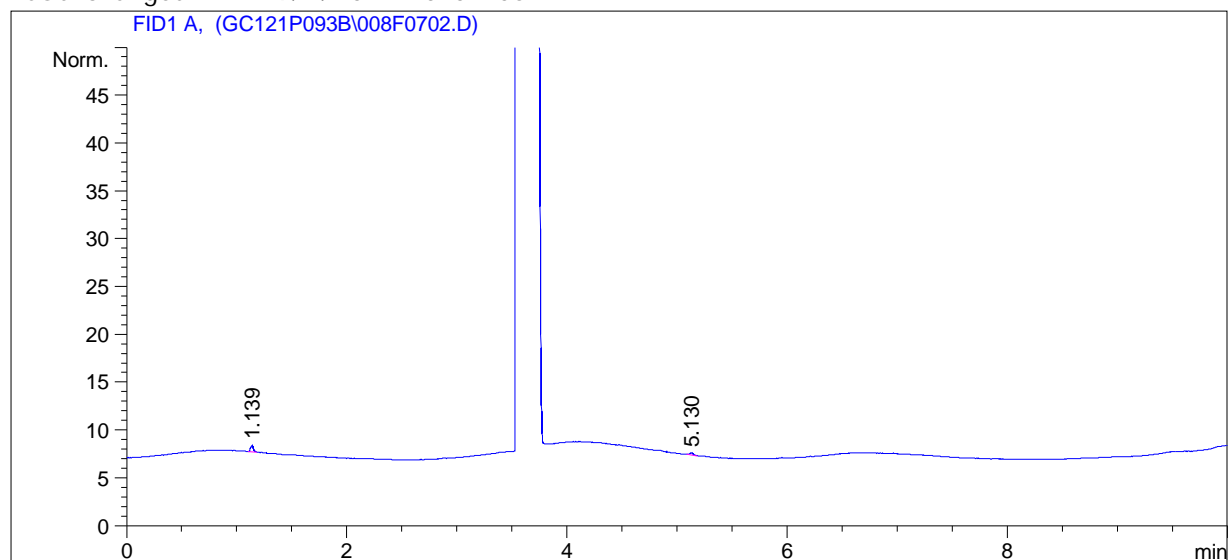
Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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Sample Name: CS2 blank

=====

Acq. Operator	: SJE	Seq. Line	: 7
Acq. Instrument	: Lucy	Location	: Vial 8
Injection Date	: 8/28/2011 12:12:13 AM	Inj	: 2
		Inj Volume	: External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl orobenzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

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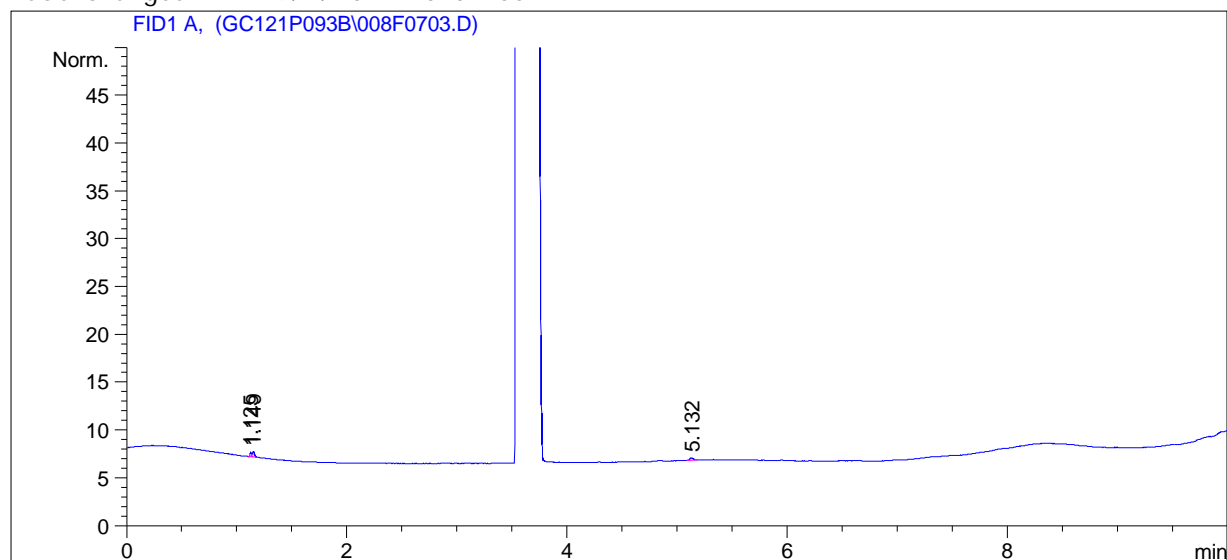
Sample Name: CS2 blank

```

=====
Acq. Operator   : SJE                      Seq. Line :    7
Acq. Instrument : Lucy                    Location  : Vial  8
Injection Date  : 8/28/2011 12:30:08 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl orobenzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

Pace Analytical
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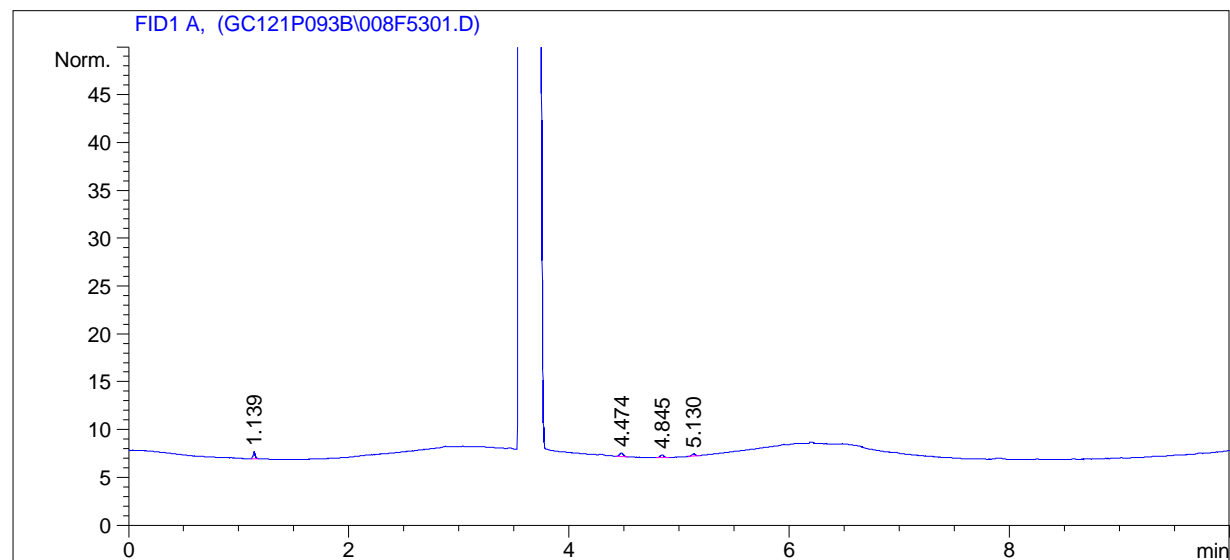
Sample Name: M18 T1R0 UnSpkd Cond. FB CS2

```

=====
Acq. Operator   : SJE                      Seq. Line :   53
Acq. Instrument : Lucy                    Location  : Vial  8
Injection Date  : 8/29/2011 5:04:43 PM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R0 UnSpkd Cond. FB CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

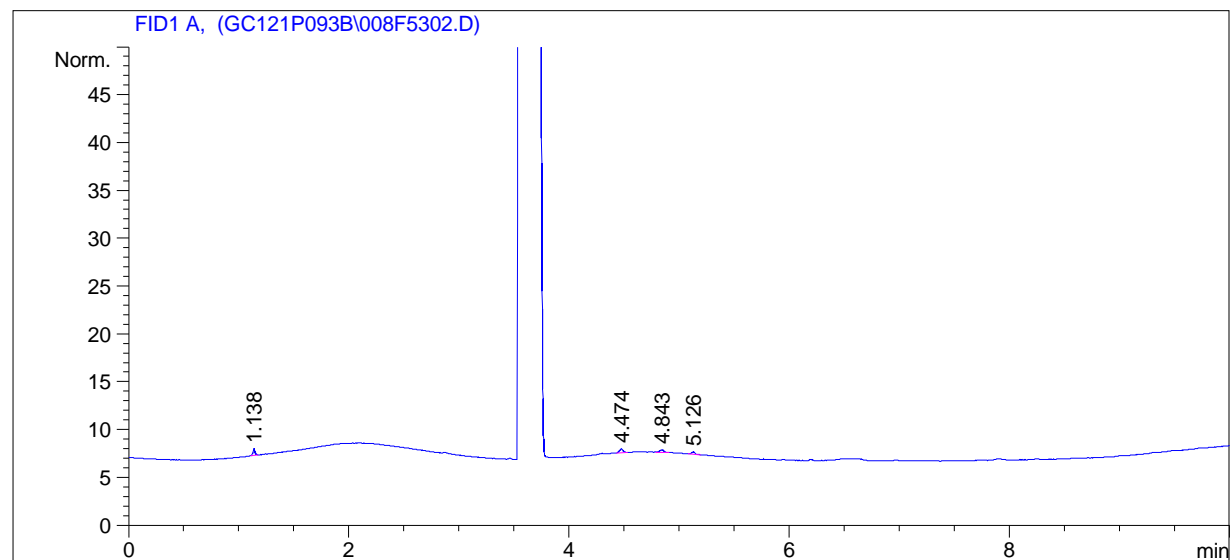
Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: SJE	Seq. Line	: 53
Acq. Instrument	: Lucy	Location	: Vial 8
Injection Date	: 8/29/2011 5:23:02 PM	Inj	: 2
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086B.M		
Last changed	: 8/12/2011 1:12:26 PM by KMT		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R0 UnSpkd Cond. FB CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

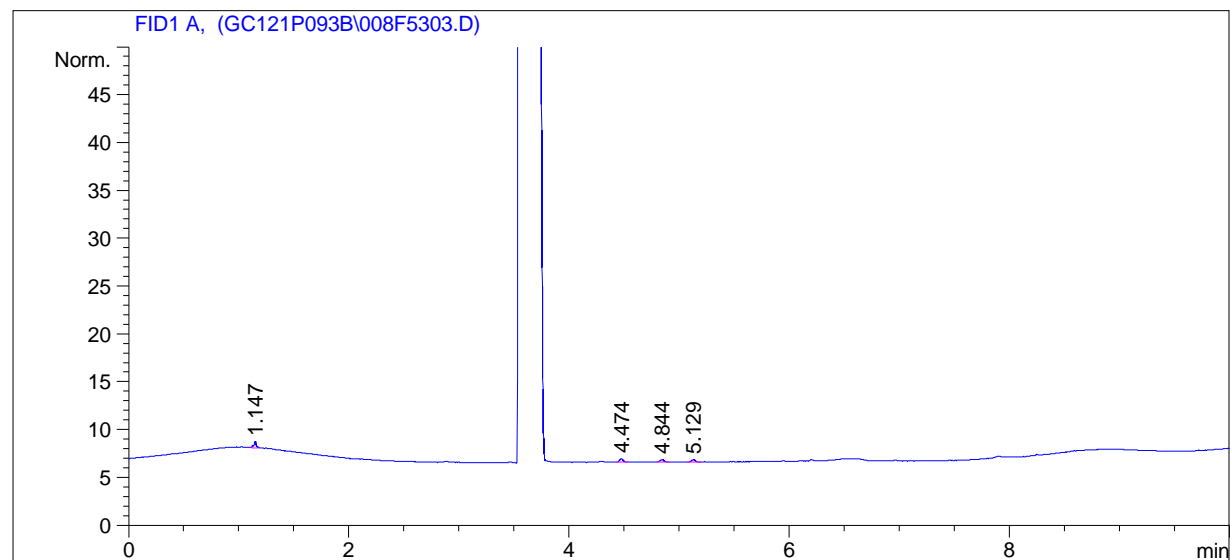
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R0 UnSpkd Cond. FB CS2

```
=====
Acq. Operator   : SJE                      Seq. Line :   53
Acq. Instrument : Lucy                    Location  : Vial  8
Injection Date  : 8/29/2011 5:40:57 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

Sample Name: M18 T1R0 UnSpkd Cond. FB CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

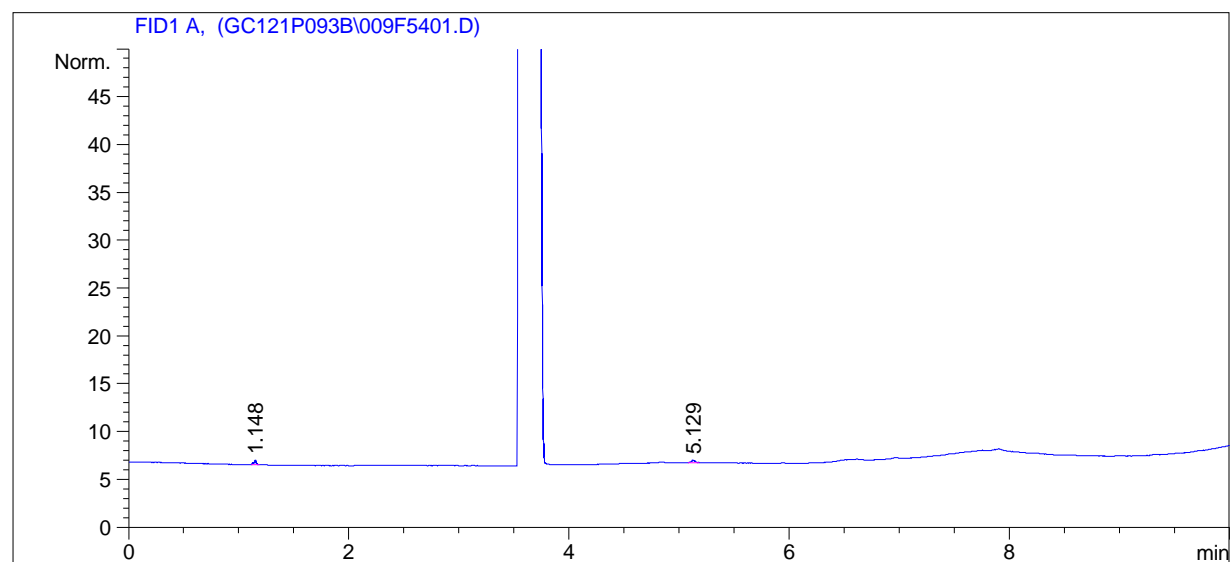
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 H2O RB CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   54
Acq. Instrument : Lucy                             Location  : Vial  9
Injection Date  : 8/29/2011 5:58:54 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 H2O RB CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
 =====
 Area Percent Report
 =====
 =====

Sorted By : Signal
 Calib. Data Modified : 9/1/2011 10:06:38 PM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

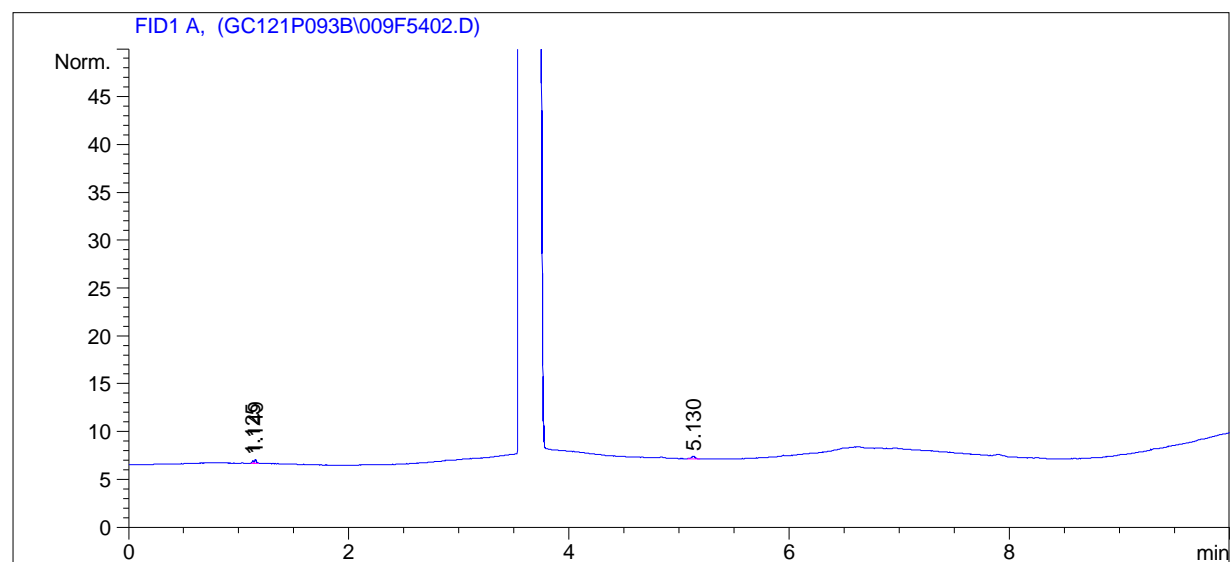
Warning : Calibrated compound(s) not found

=====
 *** End of Report ***

Sample Name: M18 H2O RB CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   54
Acq. Instrument : Lucy                             Location  : Vial  9
Injection Date  : 8/29/2011 6:17:03 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 H2O RB CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

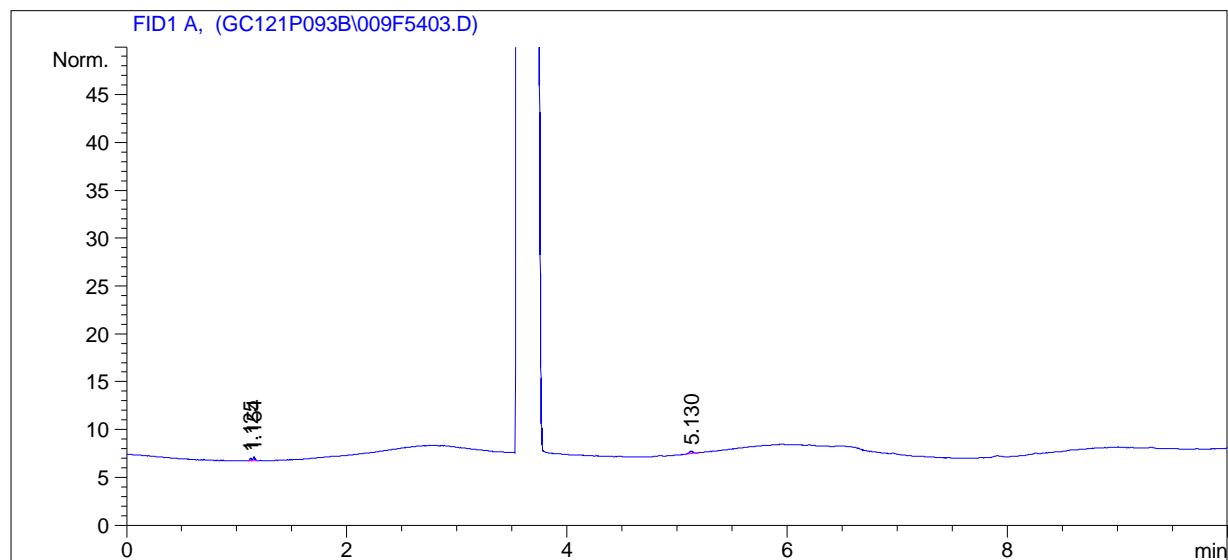
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 H2O RB CS2

```
=====
Acq. Operator   : SJE                               Seq. Line :   54
Acq. Instrument : Lucy                             Location  : Vial  9
Injection Date  : 8/29/2011 6:35:04 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 H2O RB CS2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

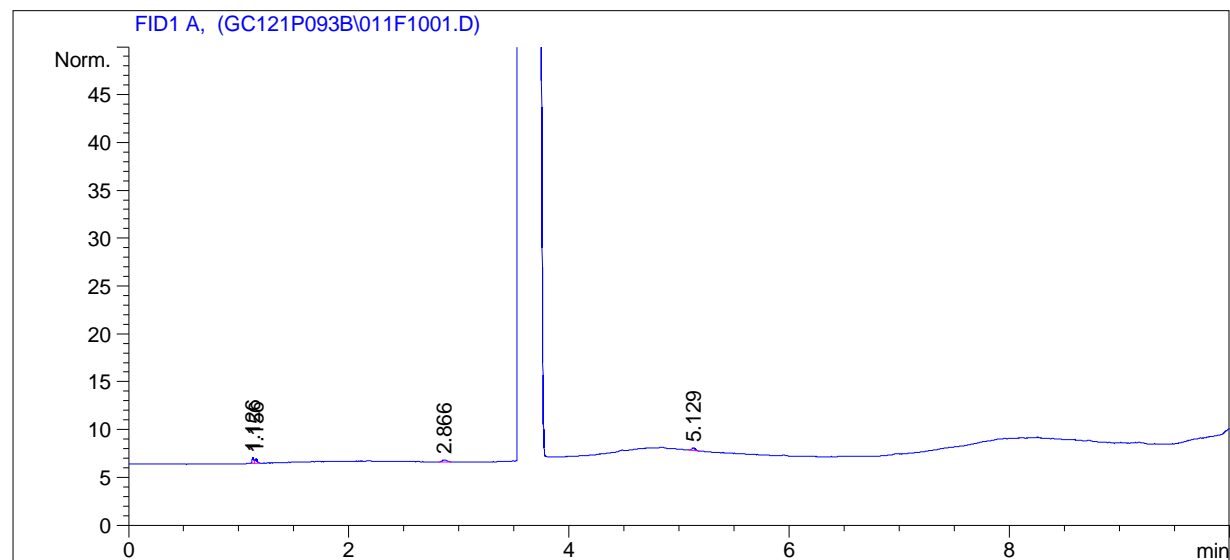
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: XAD MB

```
=====
Acq. Operator   : SJE                               Seq. Line :   10
Acq. Instrument : Lucy                             Location  : Vial 11
Injection Date  : 8/28/2011 2:35:25 AM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: XAD MB

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

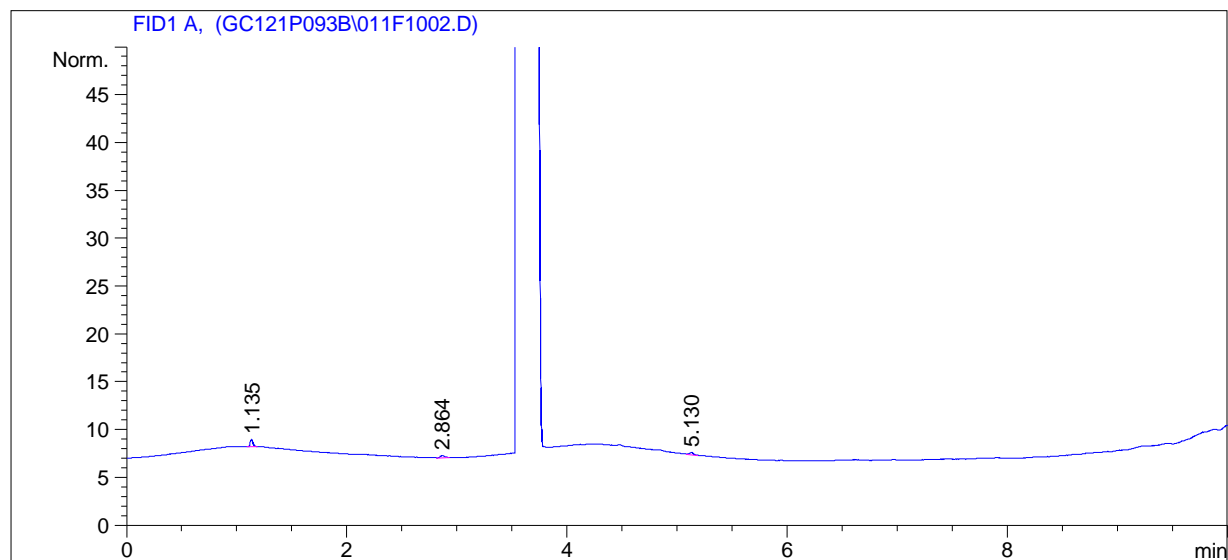
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: XAD MB

```
=====
Acq. Operator   : SJE                               Seq. Line :   10
Acq. Instrument : Lucy                             Location  : Vial 11
Injection Date  : 8/28/2011 2:53:21 AM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: XAD MB

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

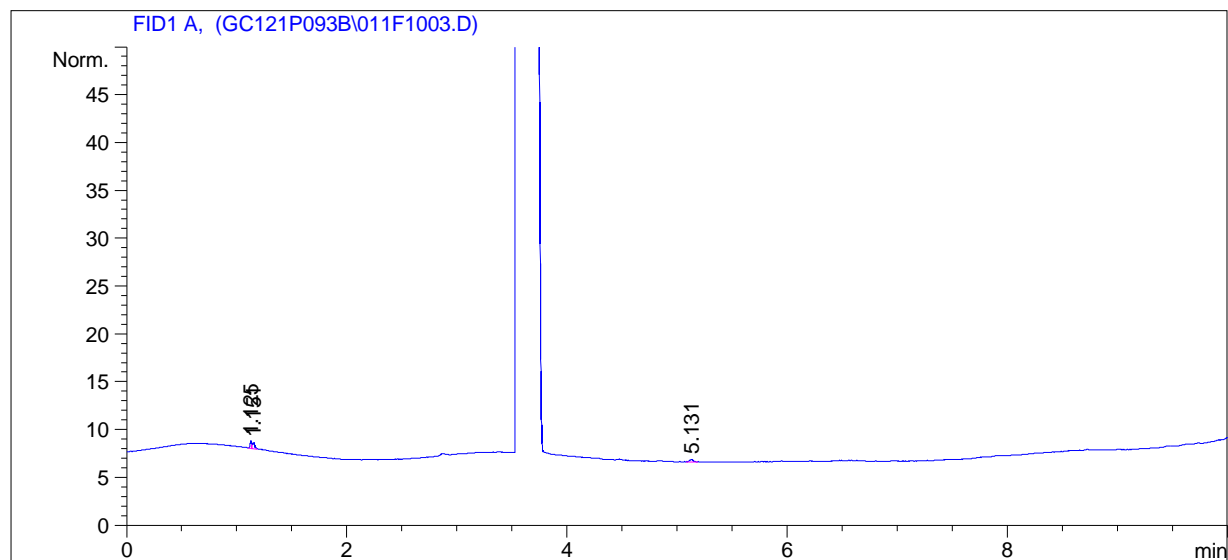
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: XAD MB

```
=====
Acq. Operator   : SJE                               Seq. Line :   10
Acq. Instrument : Lucy                             Location  : Vial 11
Injection Date  : 8/28/2011 3:11:13 AM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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FSD 1108-200

Instrument 1 9/1/2011 10:19:28 PM

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Sample Name: XAD MB

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

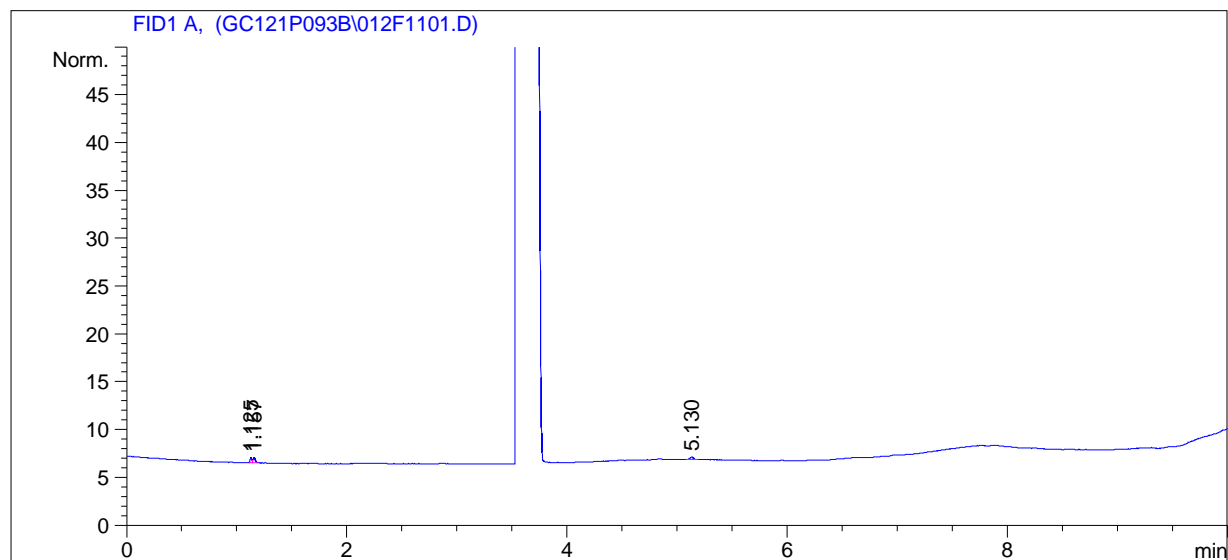
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: CT MB

```
=====
Acq. Operator   : SJE                               Seq. Line :   11
Acq. Instrument : Lucy                               Location  : Vial 12
Injection Date  : 8/28/2011 3:29:05 AM                Inj       :    1
                                                Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Instrument 1 9/1/2011 10:19:39 PM

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Sample Name: CT MB

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

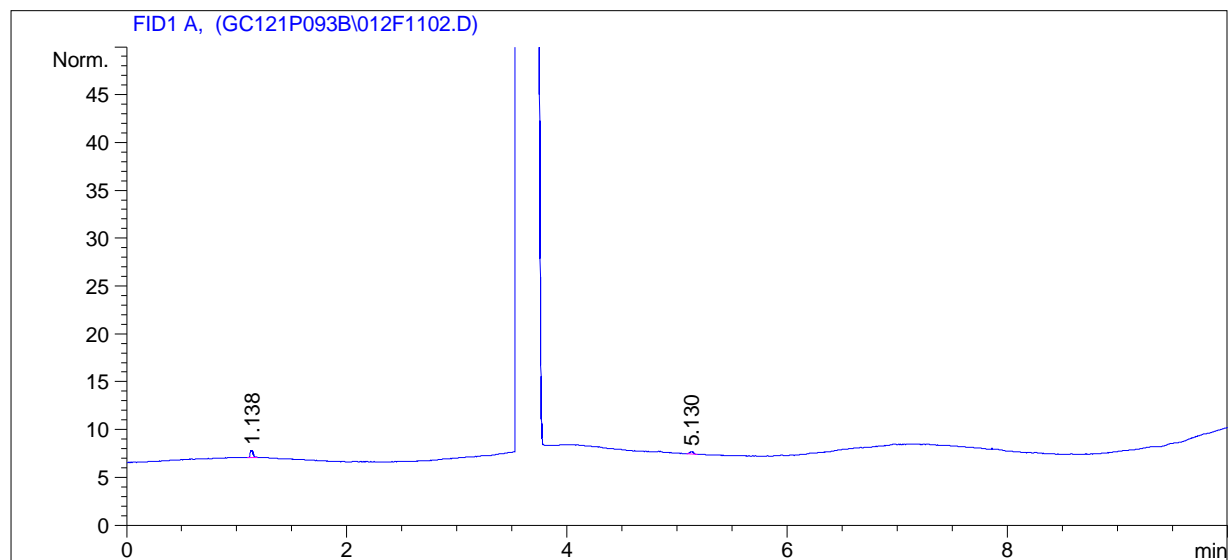
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: CT MB

```
=====
Acq. Operator   : SJE                      Seq. Line :   11
Acq. Instrument : Lucy                    Location  : Vial 12
Injection Date  : 8/28/2011 3:47:00 AM      Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: CT MB

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

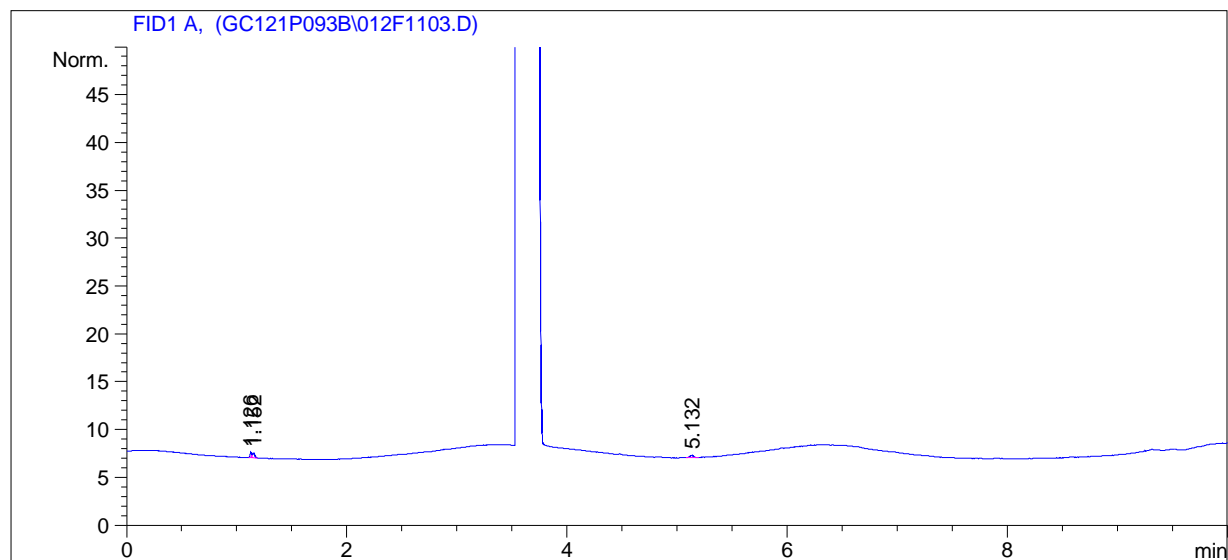
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: CT MB

```
=====
Acq. Operator   : SJE                      Seq. Line :   11
Acq. Instrument : Lucy                    Location  : Vial 12
Injection Date  : 8/28/2011 4:04:55 AM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: CT MB

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713	-	-	-	-	-	Ni trobenzene

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.689		0.0000	0.00000	0.00000	Acetoni tri le
2	3.174		0.0000	0.00000	0.00000	Acryl oni tri le
3	4.052		0.0000	0.00000	0.00000	MTBE
4	5.280		0.0000	0.00000	0.00000	2-Ni tropropane
5	5.494		0.0000	0.00000	0.00000	I sooctane
6	5.788		0.0000	0.00000	0.00000	MI BK
7	6.924		0.0000	0.00000	0.00000	Chl orobenzene
8	7.047		0.0000	0.00000	0.00000	Ethyl benzene
9	7.118		0.0000	0.00000	0.00000	p-Xyl ene
10	7.273		0.0000	0.00000	0.00000	Styrene
11	7.323		0.0000	0.00000	0.00000	o-Xyl ene
12	7.564		0.0000	0.00000	0.00000	Cumene
13	8.713		0.0000	0.00000	0.00000	Ni trobenzene

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

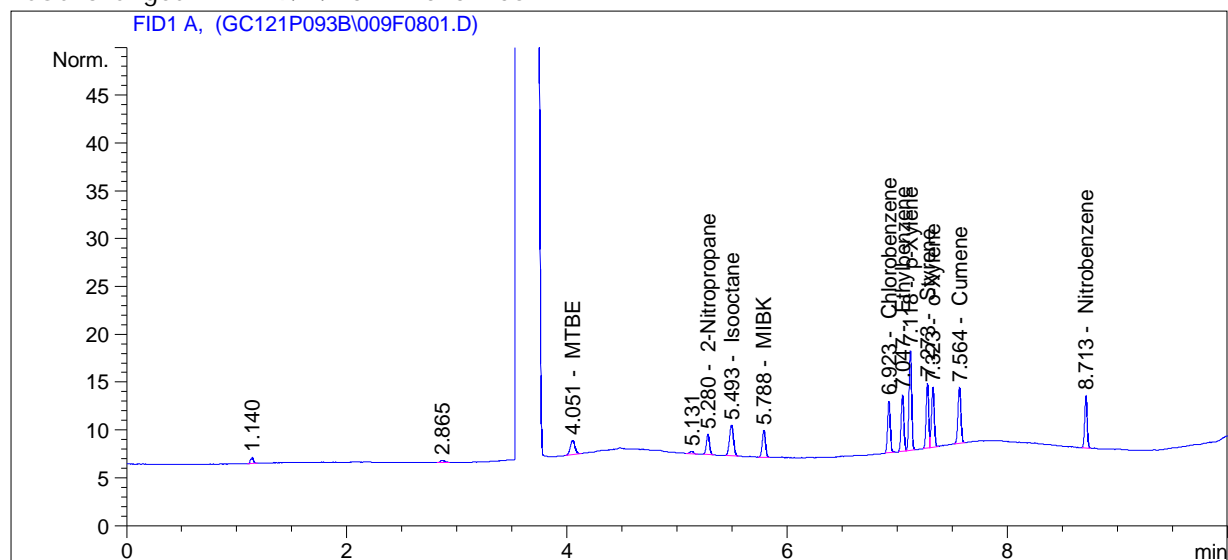
Sample Name: 0711-81 LCS1 XAD

```

=====
Acq. Operator   : SJE                      Seq. Line :    8
Acq. Instrument : Lucy                    Location  : Vial  9
Injection Date  : 8/28/2011 12:48:02 AM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.051	BB	4.35770	9.42326e-1	4.10637	-	MTBE
5.280	BB	4.20035	1.20199	5.04879	-	2-Ni tropropane
5.493	BB	8.37350	5.41807e-1	4.53682	-	I sooctane
5.788	BB	5.79435	7.50349e-1	4.34778	-	MI BK
6.923	BB	9.19788	6.86574e-1	6.31502	-	Chl orobenzene
7.047	BV	10.10044	4.98113e-1	5.03116	-	Ethyl benzene
7.118	VB	17.20615	4.93481e-1	8.49090	-	p-Xyl ene
7.273	BV	11.08556	4.78372e-1	5.30303	-	Styrene
7.323	VB	10.84039	4.82561e-1	5.23115	-	o-Xyl ene
7.564	BB	10.88187	4.90899e-1	5.34190	-	Cumene
8.713	BB	8.56970	7.68869e-1	6.58897	-	Ni trobenzene

Totals : 60.34189

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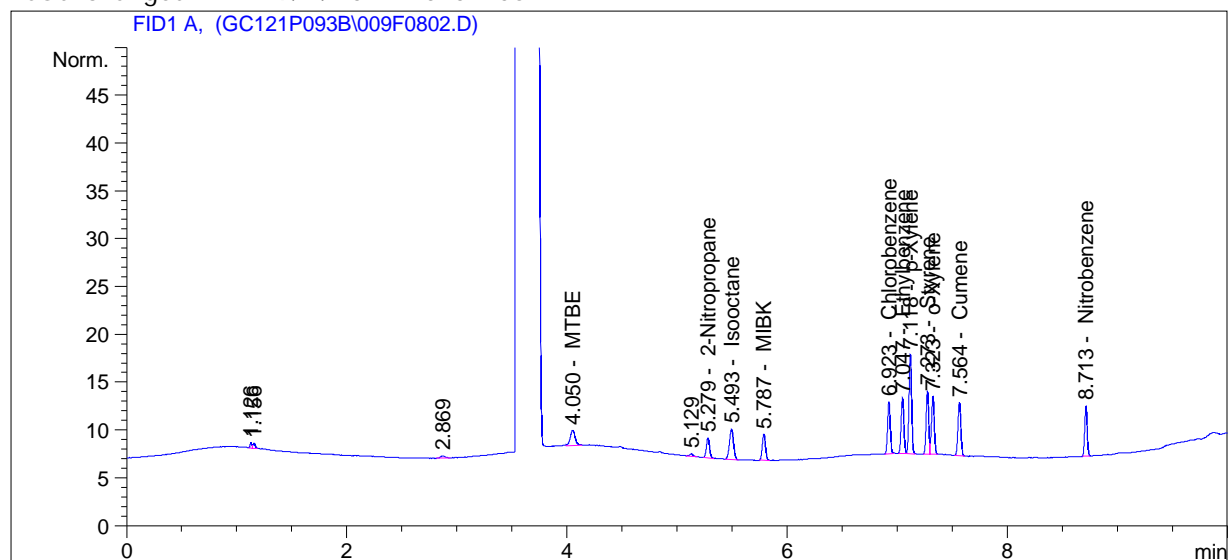
Sample Name: 0711-81 LCS1 XAD

```

=====
Acq. Operator   : SJE                      Seq. Line :    8
Acq. Instrument : Lucy                    Location  : Vial  9
Injection Date  : 8/28/2011 1:05:53 AM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.050	BB	4.84832	9.43171e-1	4.57279	-	MTBE
5.279	BB	4.13665	1.20168	4.97093	-	2-Ni tropropane
5.493	BB	8.16947	5.41470e-1	4.42353	-	I sooctane
5.787	BB	5.54262	7.49367e-1	4.15346	-	MI BK
6.923	BB	9.22009	6.86590e-1	6.33042	-	Chl orobenzene
7.047	BV	10.10466	4.98112e-1	5.03326	-	Ethyl benzene
7.118	VB	17.07728	4.93481e-1	8.42731	-	p-Xyl ene
7.273	BV	10.83247	4.78352e-1	5.18173	-	Styrene
7.323	VB	10.55660	4.82489e-1	5.09344	-	o-Xyl ene
7.564	BB	10.29958	4.91012e-1	5.05722	-	Cumene
8.713	BB	8.23418	7.68522e-1	6.32814	-	Ni trobenzene

Totals : 59.57224

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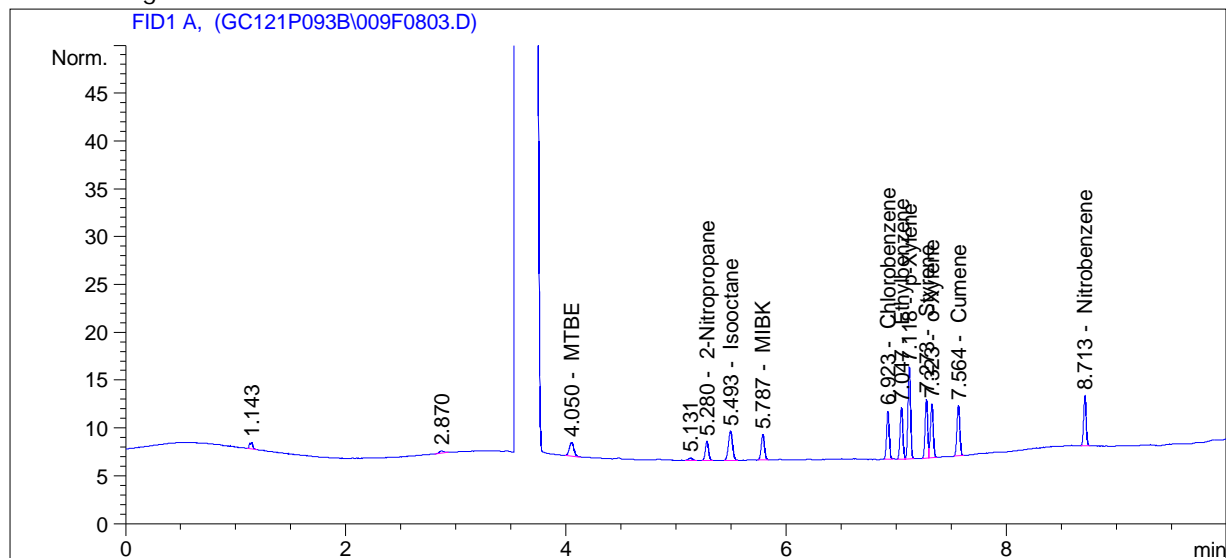
Sample Name: 0711-81 LCS1 XAD

```

=====
Acq. Operator   : SJE                      Seq. Line :    8
Acq. Instrument : Lucy                    Location  : Vial  9
Injection Date  : 8/28/2011 1:23:41 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.050	BB	4.07920	9.41756e-1	3.84161	-	MTBE
5.280	BB	3.91943	1.20055	4.70545	-	2-Ni trop propane
5.493	BB	7.84002	5.40889e-1	4.24059	-	Isooctane
5.787	BB	5.43352	7.48914e-1	4.06923	-	MIBK
6.923	BB	8.51537	6.86033e-1	5.84183	-	Chl orobenzene
7.047	BV	9.36072	4.98199e-1	4.66350	-	Ethyl benzene
7.118	VB	15.80860	4.93488e-1	7.80135	-	p-Xyl ene
7.273	BV	10.07801	4.78284e-1	4.82016	-	Styrene
7.323	VB	9.80459	4.82277e-1	4.72853	-	o-Xyl ene
7.564	BB	9.62252	4.91161e-1	4.72621	-	Cumene
8.713	BB	8.34391	7.68638e-1	6.41345	-	Ni trobenzene

Totals : 55.85191

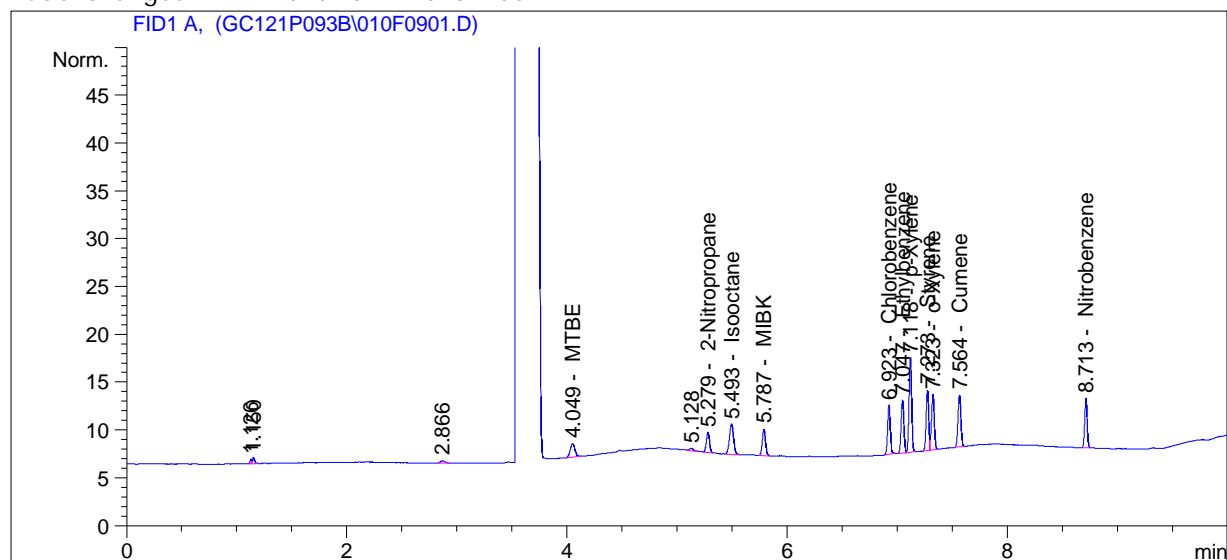
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Sample Name: 0711-87 LCS CT

=====

Acq. Operator : SJE Seq. Line : 9
Acq. Instrument : Lucy Location : Vial 10
Injection Date : 8/28/2011 1:41:35 AM Inj : 1
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.049	BB	4.19468	9.42002e-1	3.95140	-	MTBE
5.279	BB	4.09552	1.20148	4.92067	-	2-Ni tropropane
5.493	BB	8.04525	5.41257e-1	4.35454	-	I sooctane
5.787	BB	5.55563	7.49420e-1	4.16350	-	MI BK
6.923	BB	8.62525	6.86126e-1	5.91801	-	Chl orobenzene
7.047	BV	9.52613	4.98178e-1	4.74572	-	Ethyl benzene
7.118	VB	16.19292	4.93486e-1	7.99098	-	p-Xyl ene
7.273	BV	10.35784	4.78311e-1	4.95427	-	Styrene
7.323	VB	10.10115	4.82364e-1	4.87243	-	o-Xyl ene
7.564	BB	9.97018	4.91082e-1	4.89618	-	Cumene
8.713	BB	8.06499	7.68336e-1	6.19663	-	Ni trobenzene

Totals : 56.96432

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FSD 1108-200

Instrument 1 9/1/2011 10:18:42 PM

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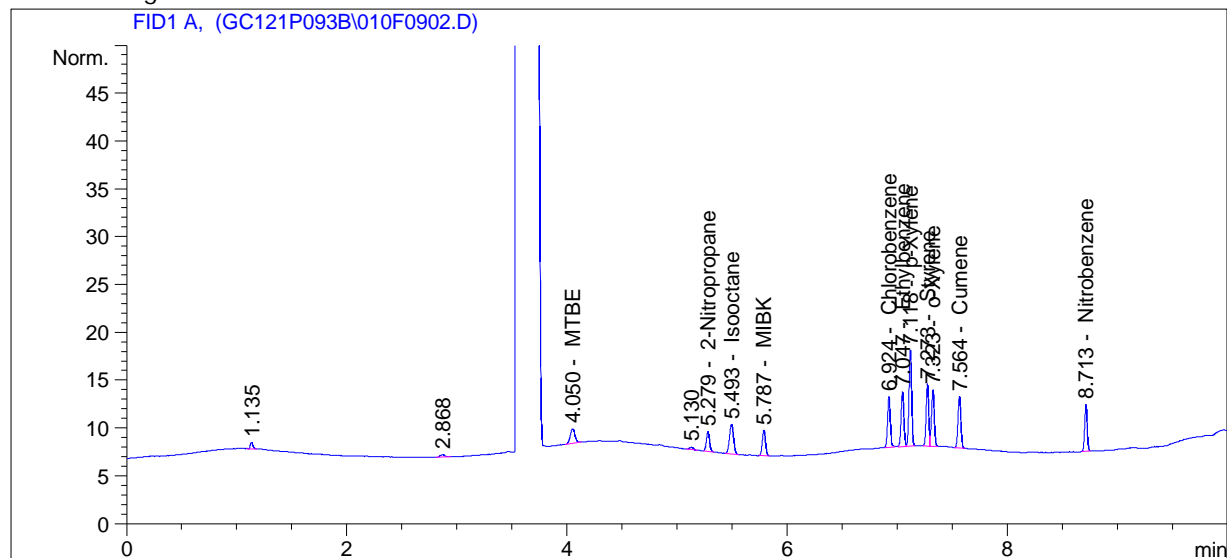
Sample Name: 0711-87 LCS CT

```

=====
Acq. Operator   : SJE                      Seq. Line :    9
Acq. Instrument : Lucy                    Location  : Vial 10
Injection Date  : 8/28/2011 1:59:30 AM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.174		-	-	-		Acryl oni tri le
4.050	BB	4.57463	9.42722e-1	4.31261		MTBE
5.279	BB	4.08882	1.20144	4.91248		2-Ni tropropane
5.493	BB	8.01278	5.41200e-1	4.33651		I sooctane
5.787	BB	5.46060	7.49028e-1	4.09014		MI BK
6.924	BB	9.39261	6.86714e-1	6.45004		Chl orobenzene
7.047	BV	10.17964	4.98104e-1	5.07052		Ethyl benzene
7.118	VB	16.82221	4.93482e-1	8.30146		p-Xyl ene
7.273	BV	10.56910	4.78329e-1	5.05551		Styrene
7.323	VB	10.28132	4.82415e-1	4.95986		o-Xyl ene
7.564	BB	9.81743	4.91116e-1	4.82150		Cumene
8.713	BB	7.79833	7.68027e-1	5.98933		Ni trobenzene

Totals : 58.29996

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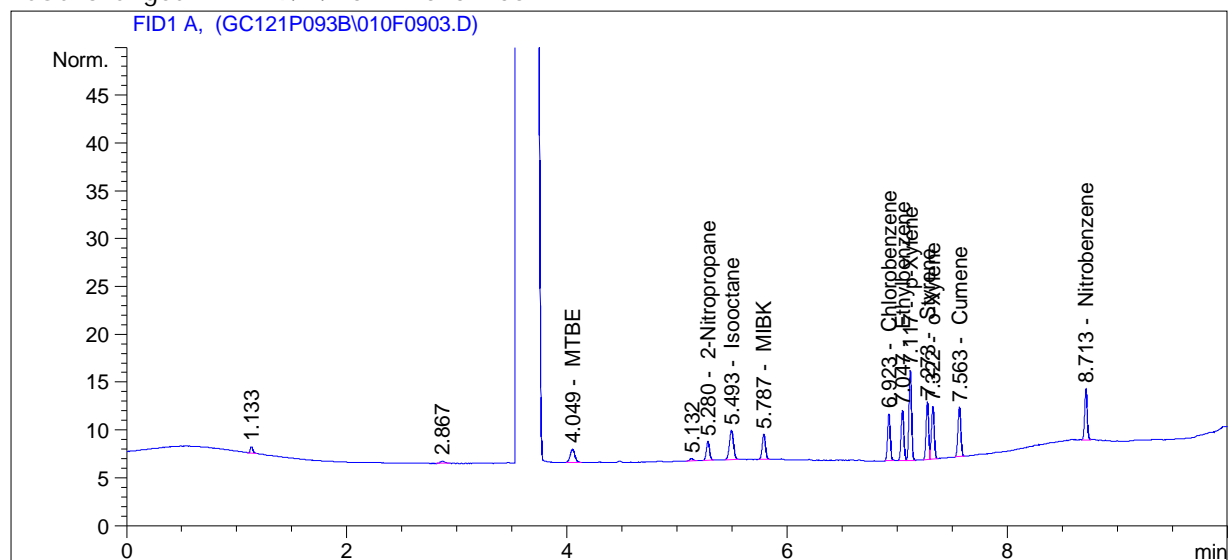
Sample Name: 0711-87 LCS CT

```

=====
Acq. Operator   : SJE                      Seq. Line :    9
Acq. Instrument : Lucy                    Location  : Vial 10
Injection Date  : 8/28/2011 2:17:27 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



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=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.174	-	-	-	-	-	Acryl oni trile
4.049	BB	3.99611	9.41570e-1	3.76262	-	MTBE
5.280	BB	3.91936	1.20055	4.70537	-	2-Ni trop propane
5.493	BB	7.87554	5.40954e-1	4.26031	-	Isooctane
5.787	BB	5.45032	7.48985e-1	4.08221	-	MI BK
6.923	BB	8.38030	6.85916e-1	5.74818	-	Chl orobenzene
7.047	BV	9.14616	4.98226e-1	4.55686	-	Ethyl benzene
7.117	VB	15.43664	4.93490e-1	7.61783	-	p-Xyl ene
7.273	BV	9.86167	4.78263e-1	4.71647	-	Styrene
7.322	VB	9.59704	4.82213e-1	4.62782	-	o-Xyl ene
7.563	BB	9.47663	4.91196e-1	4.65489	-	Cumene
8.713	BB	8.53610	7.68835e-1	6.56285	-	Ni trobenzene

Totals : 55.29541

Pace Analytical
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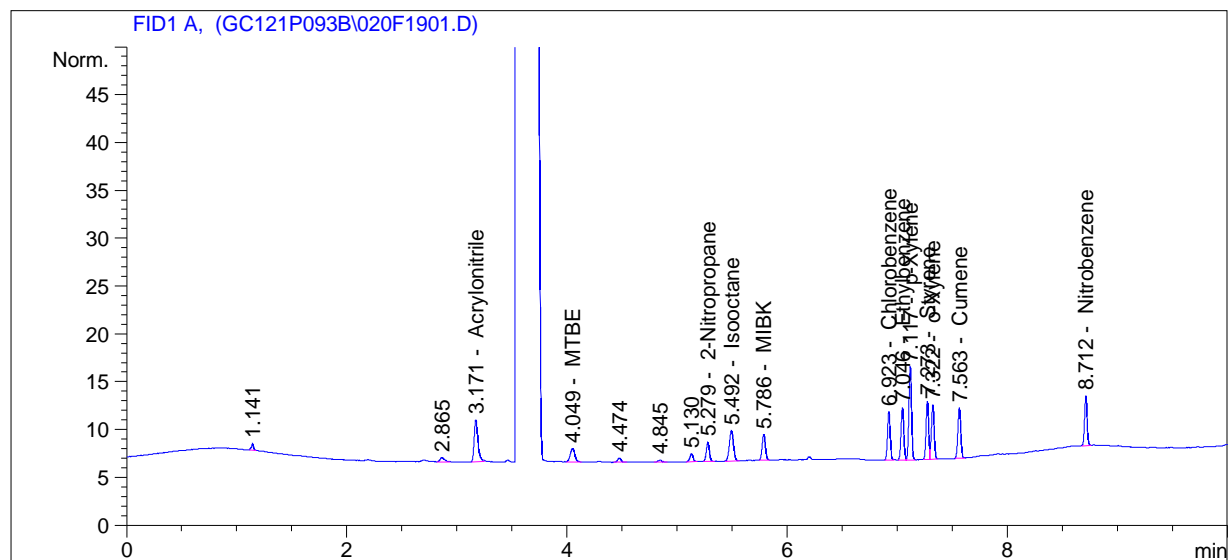
Sample Name: M18 T1R1 Sp XAD FH LD

```

=====
Acq. Operator   : SJE                      Seq. Line :   19
Acq. Instrument : Lucy                    Location  : Vial 20
Injection Date  : 8/28/2011 10:38:22 AM    Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetonitrile
3.171	BB	10.37839	1.12522	11.67796		Acrylonitrile
4.049	BB	4.03514	9.41658e-1	3.79972		MTBE
5.279	BB	3.85868	1.20021	4.63121		2-Nitropropane
5.492	BB	8.24610	5.41599e-1	4.46608		Isooctane
5.786	BB	5.55229	7.49407e-1	4.16093		MIBK
6.923	BB	8.61062	6.86114e-1	5.90787		Chlorobenzene
7.046	BV	9.50874	4.98181e-1	4.73707		Ethylbenzene
7.117	VB	16.17597	4.93486e-1	7.98261		p-Xylene
7.273	BV	9.96084	4.78273e-1	4.76400		Styrene
7.322	VB	9.92469	4.82313e-1	4.78681		o-Xylene
7.563	BB	9.66878	4.91151e-1	4.74883		Cumene

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FSD 1108-200

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Sample Name: M18 T1R1 Sp XAD FH LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	8.35164	7.68647e-1	6.41946		Ni trobenzene

Totals : 68.08254

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

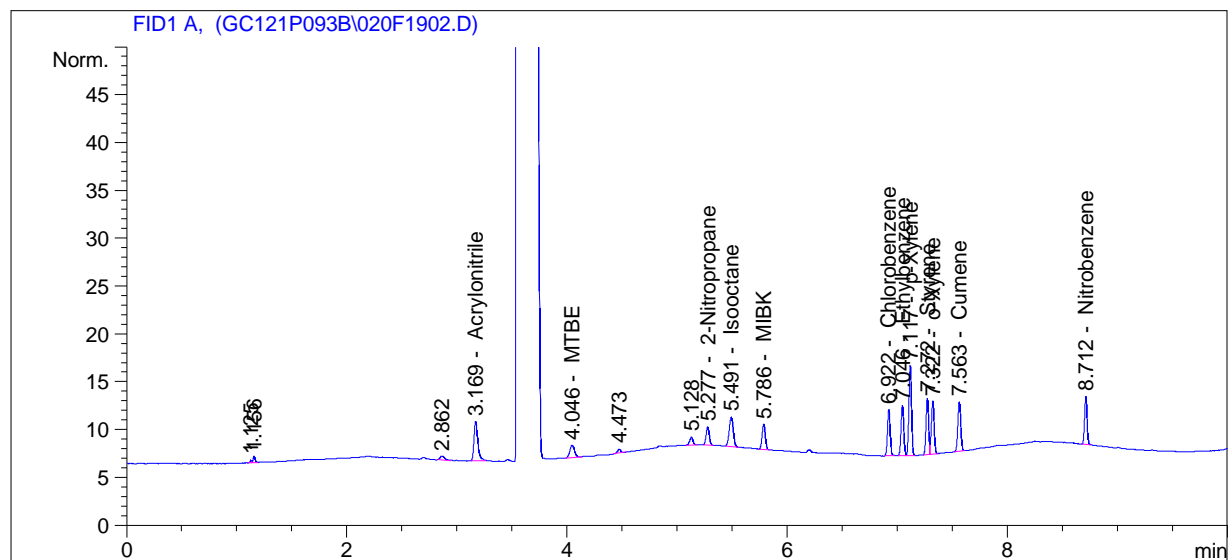
Sample Name: M18 T1R1 Sp XAD FH LD

```

=====
Acq. Operator   : SJE                      Seq. Line :   19
Acq. Instrument : Lucy                    Location  : Vial 20
Injection Date  : 8/28/2011 10:56:11 AM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.169	BB	9.85835	1.12610	11.10152	-	Acrylonitrile
4.046	BB	3.90484	9.41357e-1	3.67585	-	MTBE
5.277	BB	3.85703	1.20020	4.62919	-	2-Nitropropane
5.491	BB	8.01532	5.41205e-1	4.33793	-	Isooctane
5.786	BB	5.28051	7.48246e-1	3.95112	-	MIBK
6.922	BB	8.10147	6.85661e-1	5.55486	-	Chlorobenzene
7.046	BV	9.02181	4.98243e-1	4.49505	-	Ethylbenzene
7.117	VB	15.50563	4.93489e-1	7.65186	-	p-Xylene
7.272	BV	9.64606	4.78241e-1	4.61314	-	Styrene
7.322	VB	9.57856	4.82207e-1	4.61885	-	o-Xylene
7.563	BB	9.49030	4.91193e-1	4.66157	-	Cumene

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Instrument 1 9/1/2011 10:23:47 PM

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Page 1 of 2

Sample Name: M18 T1R1 Sp XAD FH LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	7.89764	7.68144e-1	6.06653		Ni trobenzene

Totals : 65.35748

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

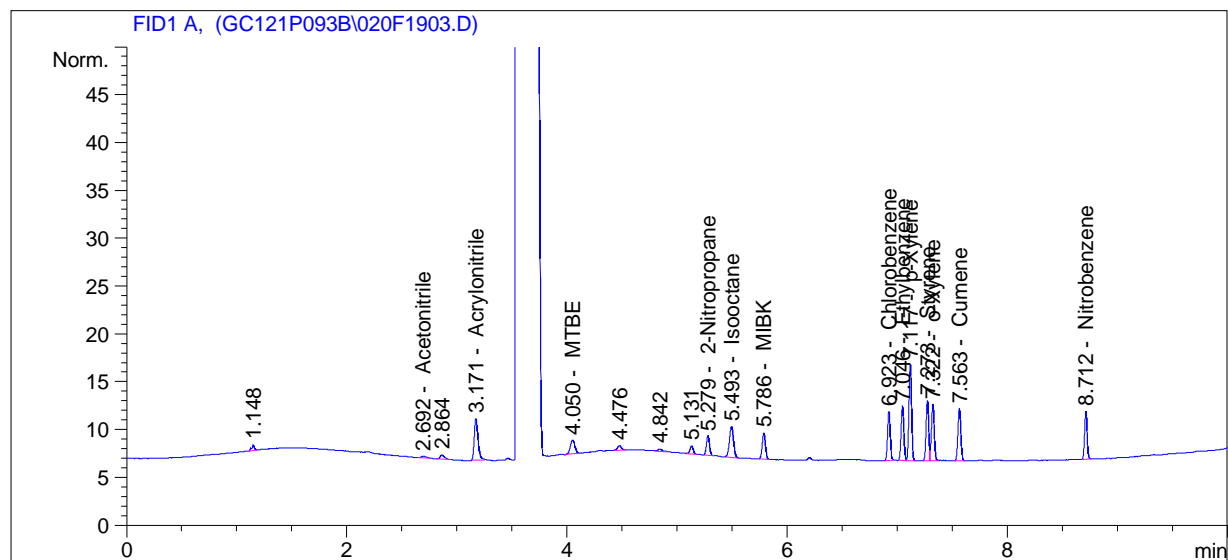
Sample Name: M18 T1R1 Sp XAD FH LD

```

=====
Acq. Operator   : SJE                               Seq. Line :   19
Acq. Instrument : Lucy                             Location  : Vial 20
Injection Date  : 8/28/2011 11:14:09 AM             Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC201103\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC201103\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC201103\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.692	BB	5.34598e-1	2.55370	1.36520		Acetonitrile
3.171	BB	10.31420	1.12532	11.60681		Acrylonitrile
4.050	BB	4.19409	9.42000e-1	3.95083		MTBE
5.279	BB	3.93360	1.20062	4.72278		2-Nitropropane
5.493	BB	8.34611	5.41763e-1	4.52162		Isooctane
5.786	BB	5.58400	7.49535e-1	4.18540		MIBK
6.923	BB	8.75665	6.86234e-1	6.00911		Chlorobenzene
7.046	BV	9.78055	4.98148e-1	4.87217		Ethylbenzene
7.117	VB	16.74268	4.93483e-1	8.26223		p-Xylene
7.273	BV	10.34919	4.78310e-1	4.95012		Styrene
7.322	VB	10.26812	4.82411e-1	4.95346		o-Xylene
7.563	BB	10.02600	4.91070e-1	4.92347		Cumene

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FSD 1108-200

FHR Pine Bend LLC
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Sample Name: M18 T1R1 Sp XAD FH LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.712	BB	7.98735	7.68248e-1	6.13627		Ni trobenzene

Totals : 70.45946

1 Warnings or Errors :

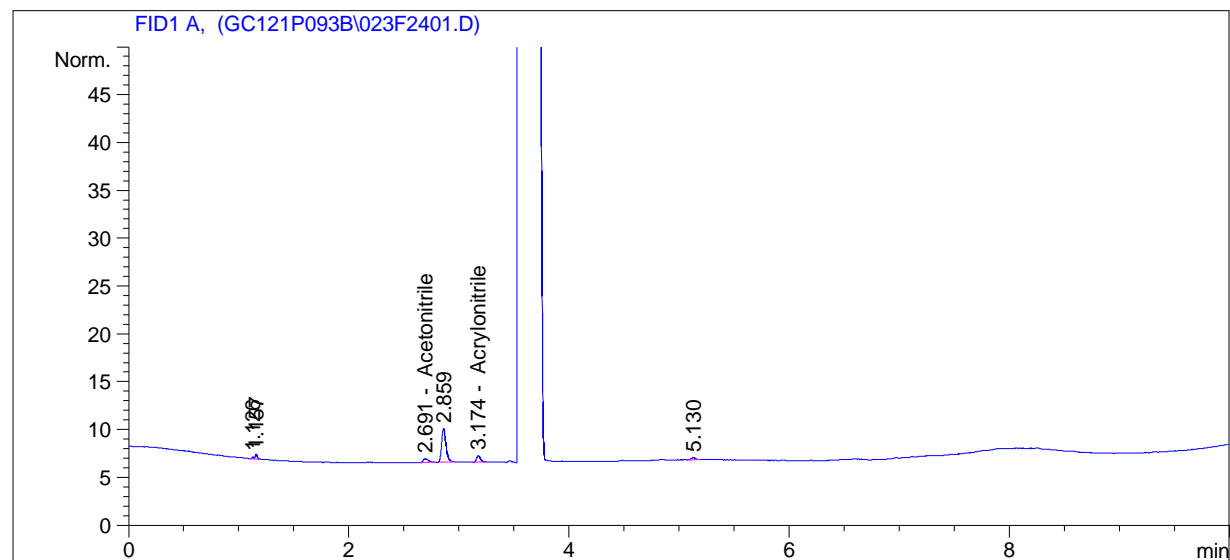
Warning : Calibration warnings (see calibration table listing)

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT FH LD

```
=====
Acq. Operator   : SJE                               Seq. Line :   24
Acq. Instrument : Lucy                             Location  : Vial 23
Injection Date  : 8/28/2011 3:07:18 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.691	BB	1.31381	2.49838	3.28241		Acetonitrile
3.174	BB	1.75047	1.20790	2.11440		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp CT FH LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 5.39681

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

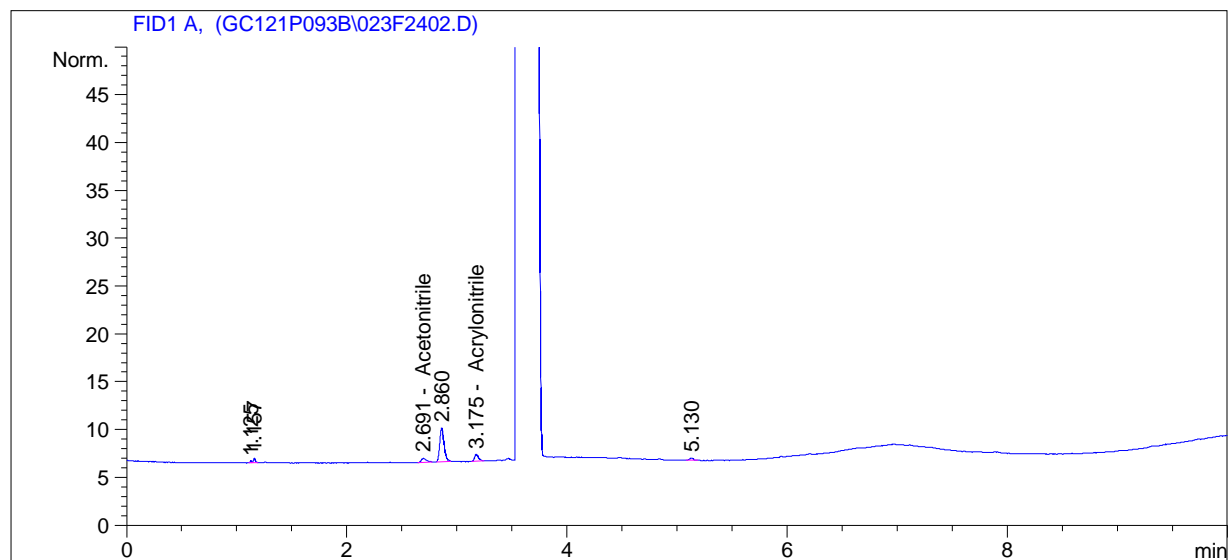
=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT FH LD

=====

Acq. Operator	: SJE	Seq. Line	: 24
Acq. Instrument	: Lucy	Location	: Vial 23
Injection Date	: 8/28/2011 3:25:18 PM	Inj	: 2
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		

=====



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External Standard Report

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Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.691	BB	1.35008	2.47762	3.34500		Acetonitrile
3.175	BB	1.78872	1.20578	2.15679		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp CT FH LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 5.50178

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

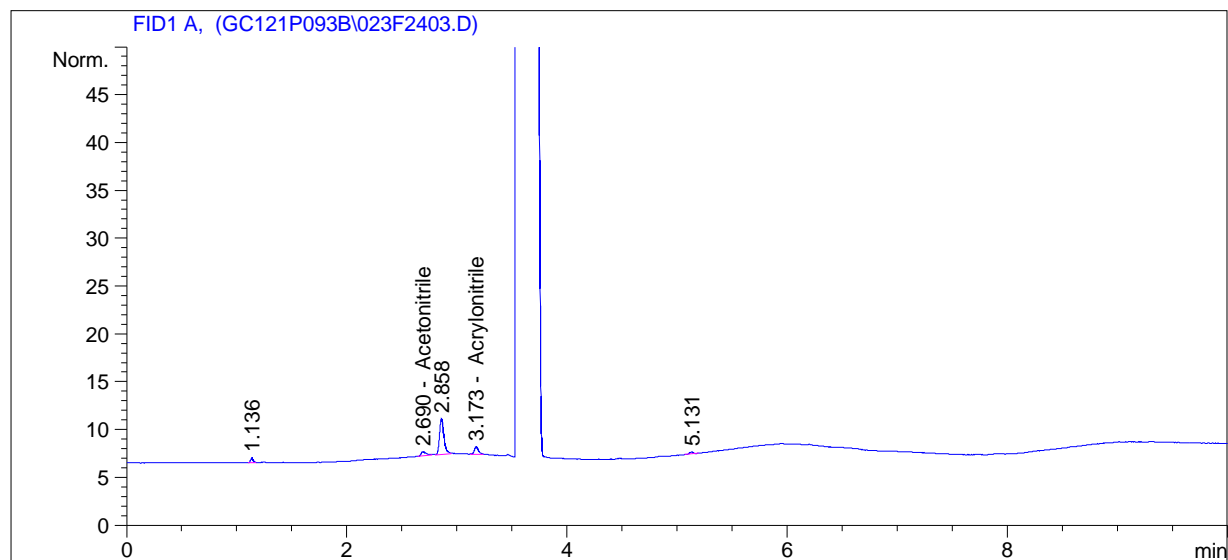
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Sp CT FH LD

```
=====
Acq. Operator   : SJE                               Seq. Line :   24
Acq. Instrument : Lucy                             Location  : Vial  23
Injection Date  : 8/28/2011 3:43:17 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.690	BB	1.59329	2.36281	3.76466		Acetonitrile
3.173	BB	1.98674	1.19607	2.37629		Acrylonitrile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Nitropropane
5.494		-	-	-		Isooctane
5.788		-	-	-		MIBK
6.924		-	-	-		Chlorobenzene
7.047		-	-	-		Ethylbenzene
7.118		-	-	-		p-Xylene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xylene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Sp CT FH LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 6.14094

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

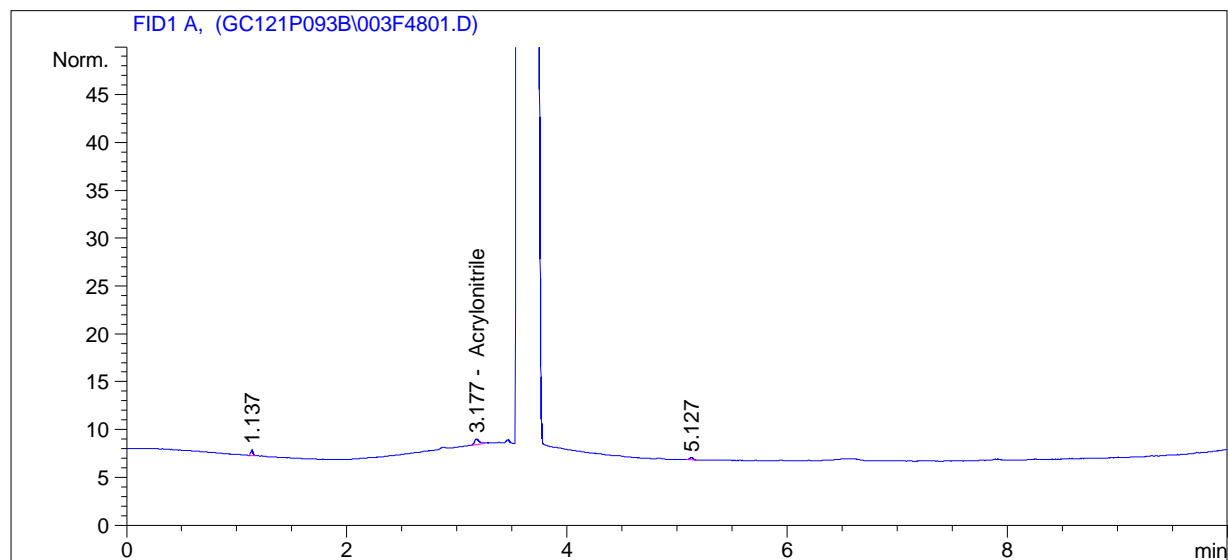
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Sample Name: M18 T1R1 Spkd Cond. CS2 LD

=====

Acq. Operator	: SJE	Seq. Line	: 48
Acq. Instrument	: Lucy	Location	: Vial 3
Injection Date	: 8/29/2011 12:33:55 PM	Inj	: 1
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086B.M		
Last changed	: 8/12/2011 1:12:26 PM by KMT		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		
Sample Info	: 0711-81		



=====

External Standard Report

=====

Sorted By : Signal

Calib. Data Modified : 9/1/2011 10:06:38 PM

Multiplier: : 1.0000

Dilution: : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.177	BB	1.68805	1.21158	2.04521		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Spkd Cond. CS2 LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 2.04521

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

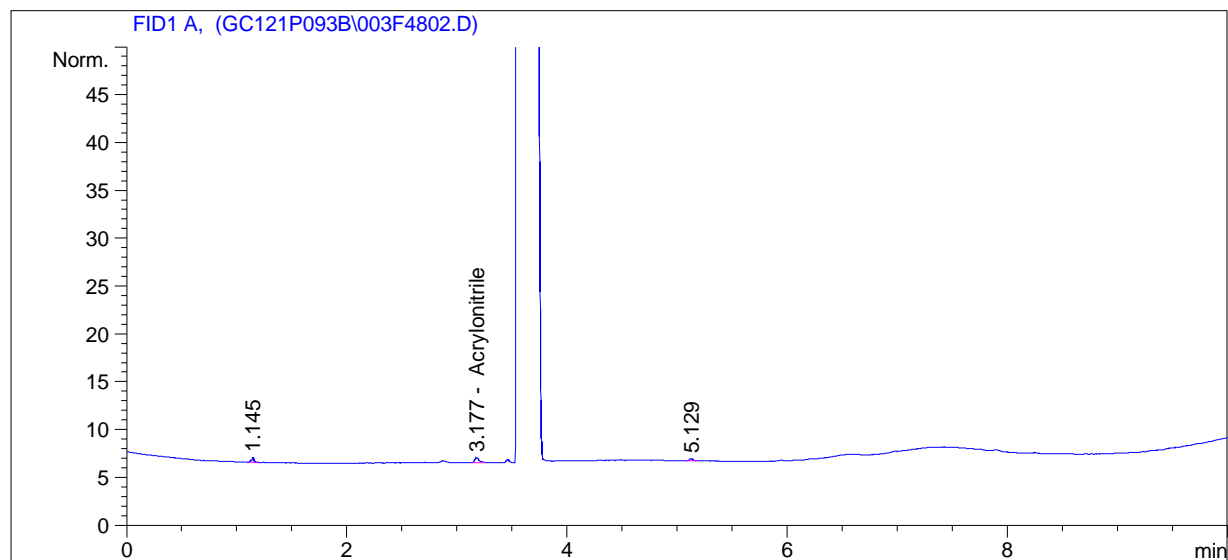
Sample Name: M18 T1R1 Spkd Cond. CS2 LD

```

=====
Acq. Operator   : SJE                      Seq. Line :   48
Acq. Instrument : Lucy                    Location  : Vial  3
Injection Date  : 8/29/2011 12:51:53 PM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.177	BB	1.45946	1.22773	1.79183		Acryl oni trile
4.052		-	-	-		MTBE
5.280		-	-	-		2-Ni tropropane
5.494		-	-	-		I sooctane
5.788		-	-	-		MI BK
6.924		-	-	-		Chl oro benzene
7.047		-	-	-		Ethyl benzene
7.118		-	-	-		p-Xyl ene
7.273		-	-	-		Styrene
7.323		-	-	-		o-Xyl ene
7.564		-	-	-		Cumene

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Sample Name: M18 T1R1 Spkd Cond. CS2 LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.79183

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

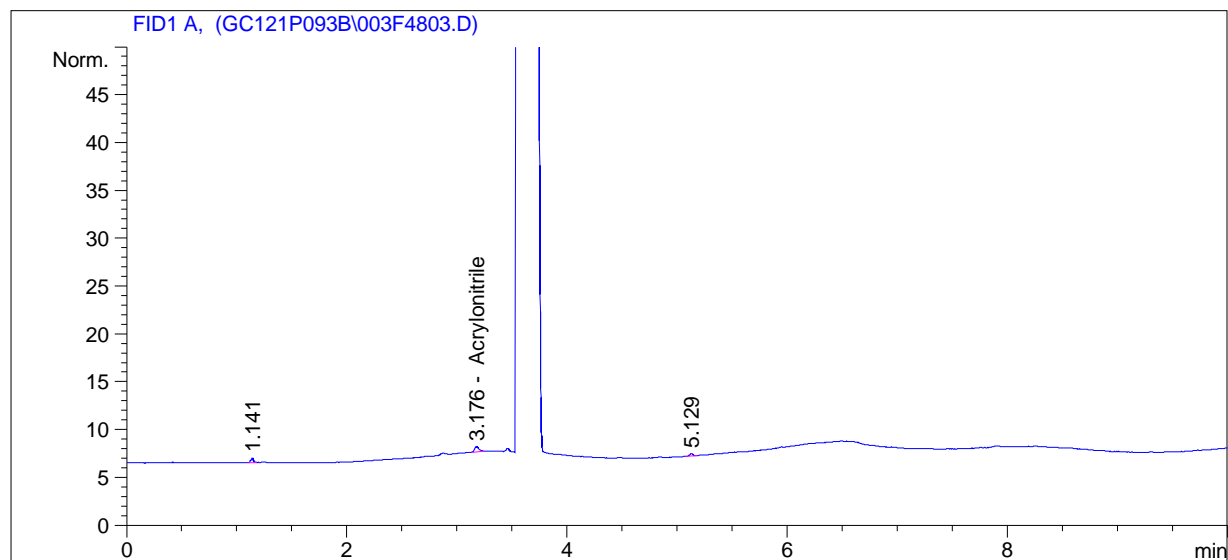
Sample Name: M18 T1R1 Spkd Cond. CS2 LD

```

=====
Acq. Operator   : SJE                      Seq. Line :   48
Acq. Instrument : Lucy                    Location  : Vial  3
Injection Date  : 8/29/2011 1:10:02 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Sample Info     : 0711-81
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.176	BB	1.60538	1.21689	1.95357	-	Acryl oni trile
4.052	-	-	-	-	-	MTBE
5.280	-	-	-	-	-	2-Ni tropropane
5.494	-	-	-	-	-	I sooctane
5.788	-	-	-	-	-	MI BK
6.924	-	-	-	-	-	Chl oro benzene
7.047	-	-	-	-	-	Ethyl benzene
7.118	-	-	-	-	-	p-Xyl ene
7.273	-	-	-	-	-	Styrene
7.323	-	-	-	-	-	o-Xyl ene
7.564	-	-	-	-	-	Cumene

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Sample Name: M18 T1R1 Spkd Cond. CS2 LD

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
8.713		-	-	-		Ni trobenzene

Totals : 1.95357

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Calibration Curve Chromatograms


```
=====
                        Calibration Table
=====
```

Calib. Data Modified : 9/1/2011 10:06:38 PM

Rel. Reference Window : 0.000 %
 Abs. Reference Window : 0.050 min
 Rel. Non-ref. Window : 0.000 %
 Abs. Non-ref. Window : 0.100 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Linear (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID1 A,

RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
2.689	1 2	3.13100	1.35455	2.31146	Acetonitrile
	3	15.53300	7.98100	1.94625	
	4	74.70700	41.20613	1.81301	
	5	261.47600	152.75303	1.71176	
3.174	1 1	1.56900	1.40424	1.11733	Acrylonitrile
	2	3.13600	2.55124	1.22921	
	3	15.55500	13.11451	1.18609	
	4	74.81200	66.47325	1.12545	
	5	261.84300	237.66789	1.10172	MTBE
4.052	1 1	1.47500	1.66834	8.84115e-1	
	2	2.94600	3.04404	9.67792e-1	
	3	14.61500	15.02773	9.72536e-1	
	4	70.29300	74.27321	9.46411e-1	
	5	246.02500	258.93017	9.50160e-1	2-Nitropropane
5.280	1 1	1.93400	1.71638	1.12679	
	2	3.86500	3.18883	1.21204	
	3	19.17200	15.44754	1.24110	
	4	92.20900	74.60150	1.23602	
	5	322.73100	265.33270	1.21633	Isooctane
5.494	1 1	1.36700	2.75765	4.95713e-1	
	2	2.74900	5.14064	5.34758e-1	
	3	13.63600	24.03814	5.67265e-1	
	4	65.58300	117.14007	5.59868e-1	
	5	229.54000	415.37884	5.52604e-1	MIBK
5.788	1 1	1.59100	2.28152	6.97342e-1	
	2	3.17900	4.31000	7.37587e-1	
	3	15.76700	20.01047	7.87937e-1	
	5	15.83200	97.19715	7.80188e-1	

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RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref	Grp Name
-----	--	---	-----	-----	---	-----
6.924	1	5 265.41300	345.66828	7.67826e-1		
		1 2.21000	3.37055	6.55678e-1		Chlorobenzene
		2 4.41500	6.54818	6.74233e-1		
		3 21.89900	30.47669	7.18549e-1		
		4 105.32300	150.39431	7.00312e-1		
		5 368.63100	534.40114	6.89802e-1		
7.047	1	1 1.73000	3.57532	4.83873e-1		Ethylbenzene
		2 3.45600	7.02498	4.91959e-1		
		3 17.14300	33.05536	5.18615e-1		
		4 82.45000	163.98492	5.02790e-1		
		5 288.57400	583.66496	4.94417e-1		
7.118	1	1 1.71700	3.58837	4.78491e-1		p-Xylene
		2 3.43000	7.06088	4.85775e-1		
		3 17.01500	33.03594	5.15045e-1		
		4 81.83600	163.94566	4.99165e-1		
		5 286.42600	583.64976	4.90750e-1		
7.273	1	1 1.80800	3.91965	4.61265e-1		Styrene
		2 3.61300	7.69597	4.69466e-1		
		3 17.92300	35.75062	5.01334e-1		
		4 86.19900	177.51901	4.85576e-1		
		5 301.69800	633.30377	4.76387e-1		
7.323	1	1 1.75500	3.79566	4.62371e-1		o-Xylene
		2 3.50600	7.39576	4.74055e-1		
		3 17.39100	34.40992	5.05407e-1		
		4 83.64200	170.32609	4.91070e-1		
		5 292.74700	606.72243	4.82506e-1		
7.564	1	1 1.73200	3.61157	4.79570e-1		Cumene
		2 3.46000	7.16170	4.83126e-1		
		3 17.16300	33.55660	5.11464e-1		
		4 82.54700	166.53817	4.95664e-1		
		5 288.91300	594.43427	4.86030e-1		
8.713	1	1 2.40100	3.22999	7.43346e-1		Nitrobenzene
		2 4.79800	6.39403	7.50388e-1		
		3 23.79800	30.01682	7.92822e-1		
		4 114.45700	144.31280	7.93117e-1		
		5 400.59900	518.94005	7.71956e-1		

More compound-specific settings:

Compound: Isooctane

Time Window : From 5.469 min To 5.543 min

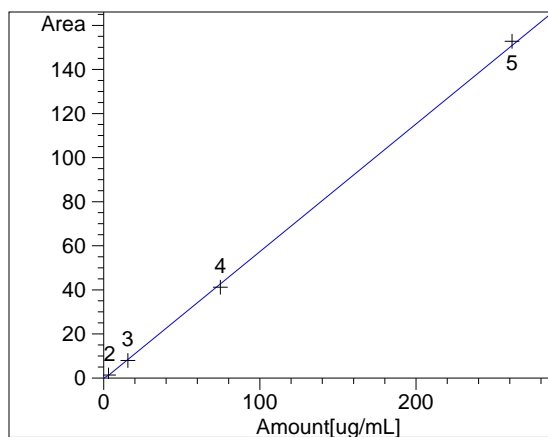
2 Warnings or Errors :

Warning : Overlapping peak time windows at 7.047 min, signal 1

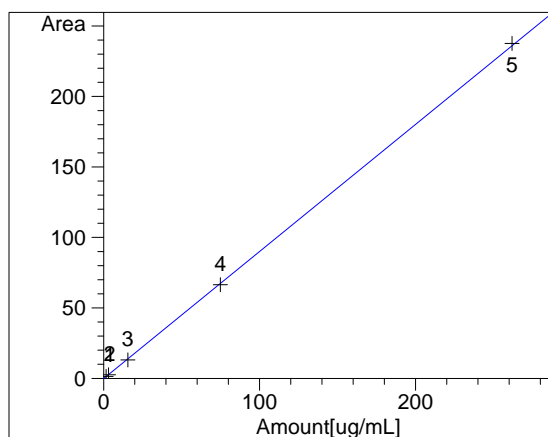
Warning : Overlapping peak time windows at 7.273 min, signal 1

=====
Peak Sum Table
=====

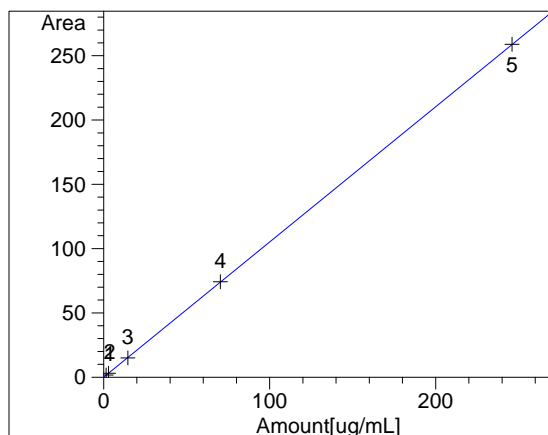
No Entries in table
=====

=====
Calibration Curves
=====

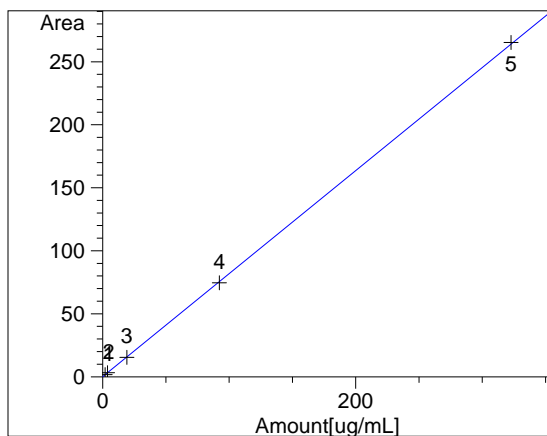
Acetonitrile at exp. RT: 2.689
FID1 A,
Correlation: 0.99972
Residual Std. Dev.: 1.69059
Formula: $y = mx + b$
m: 5.79542e-1
b: -5.88480e-1
x: Amount
y: Area
Calibration Level Weights:
Level 2 : 1
Level 3 : 0.201571
Level 4 : 0.04191
Level 5 : 0.011974



Acrylonitrile at exp. RT: 3.174
FID1 A,
Correlation: 0.99986
Residual Std. Dev.: 1.14269
Formula: $y = mx + b$
m: 9.02166e-1
b: -1.57066e-1
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.500319
Level 3 : 0.100868
Level 4 : 0.020973
Level 5 : 0.005992



MTBE at exp. RT: 4.052
FID1 A,
Correlation: 0.99997
Residual Std. Dev.: 0.29432
Formula: $y = mx + b$
m: 1.05188
b: 3.82880e-2
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.500679
Level 3 : 0.100924
Level 4 : 0.020984
Level 5 : 0.005995



2-Nitropropane at exp. RT: 5.280

FID1 A,

Correlation: 0.99996

Residual Std. Dev.: 0.89072

Formula: $y = mx + b$

m: 8.18211e-1

b: 6.93731e-2

x: Amount

y: Area

Calibration Level Weights:

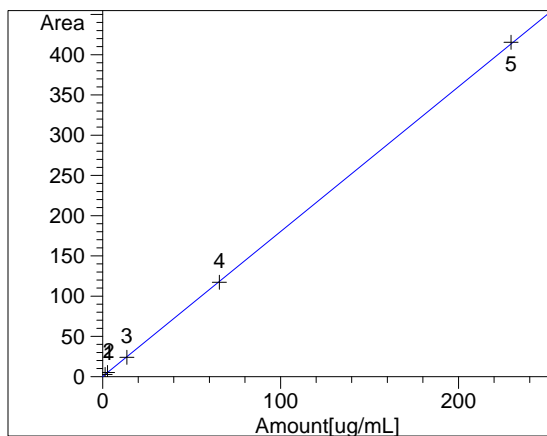
Level 1 : 1

Level 2 : 0.500388

Level 3 : 0.100876

Level 4 : 0.020974

Level 5 : 0.005993



Isooctane at exp. RT: 5.494

FID1 A,

Correlation: 0.99996

Residual Std. Dev.: 1.31280

Formula: $y = mx + b$

m: 1.80084

b: 2.03399e-1

x: Amount

y: Area

Calibration Level Weights:

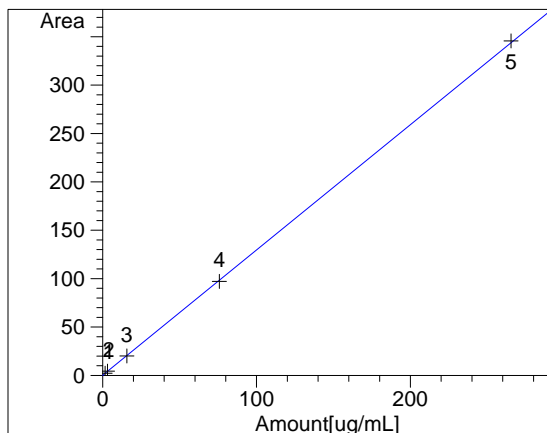
Level 1 : 1

Level 2 : 0.497272

Level 3 : 0.100249

Level 4 : 0.020844

Level 5 : 0.005955



MIBK at exp. RT: 5.788

FID1 A,

Correlation: 0.99995

Residual Std. Dev.: 1.24092

Formula: $y = mx + b$

m: 1.29541

b: 1.62182e-1

x: Amount

y: Area

Calibration Level Weights:

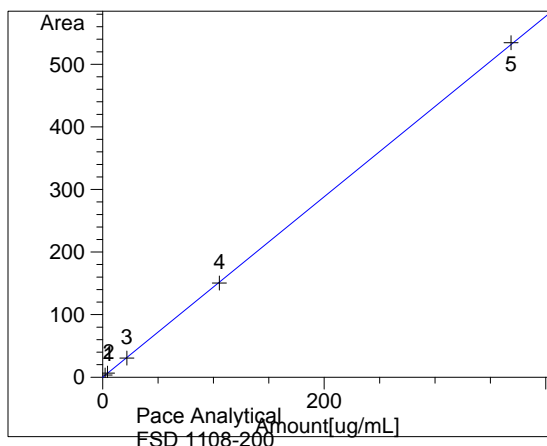
Level 1 : 1

Level 2 : 0.500472

Level 3 : 0.100907

Level 4 : 0.020981

Level 5 : 0.005994



Chlorobenzene at exp. RT: 6.924

FID1 A,

Correlation: 0.99994

Residual Std. Dev.: 1.90646

Formula: $y = mx + b$

m: 1.44234

b: 8.94740e-2

x: Amount

y: Area

Calibration Level Weights:

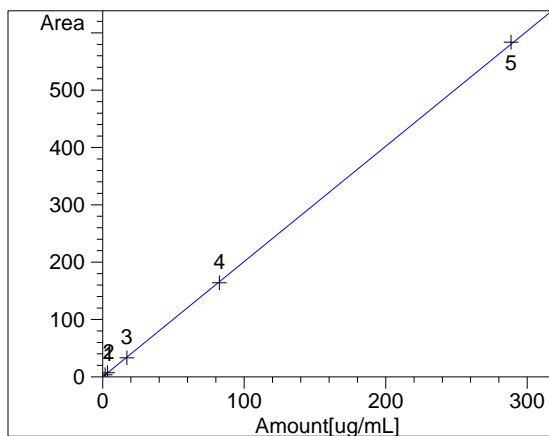
Level 1 : 1

Level 2 : 0.500566

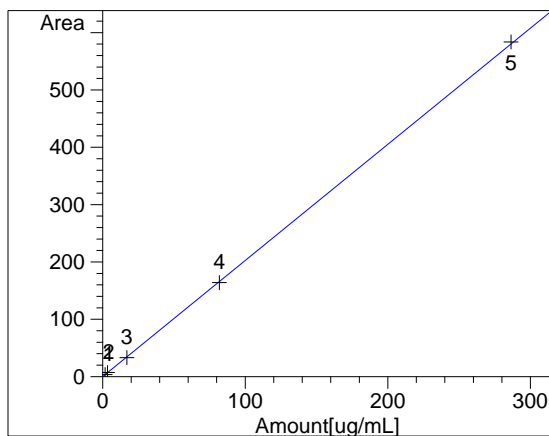
Level 3 : 0.100918

Level 4 : 0.020983

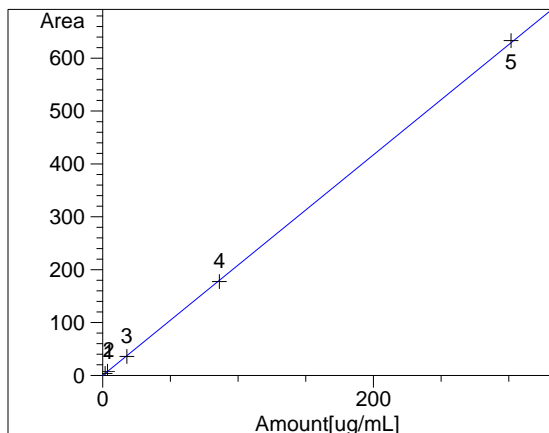
Level 5 : 0.005995



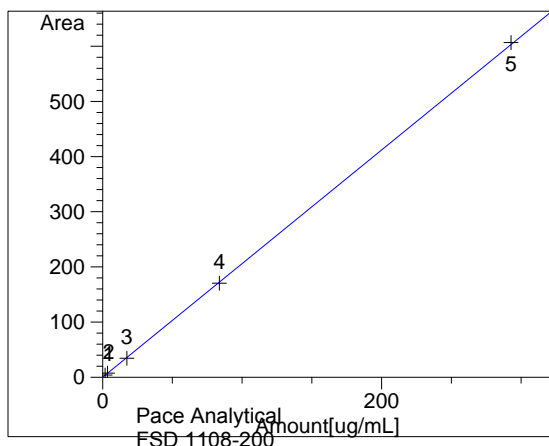
Ethylbenzene at exp. RT: 7.047
 FID1 A,
 Correlation: 0.99993
 Residual Std. Dev.: 2.24091
 Formula: $y = mx + b$
 m: 2.01197
 b: -2.21226e-2
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.500579
 Level 3 : 0.100916
 Level 4 : 0.020982
 Level 5 : 0.005995



p-Xylene at exp. RT: 7.118
 FID1 A,
 Correlation: 0.99993
 Residual Std. Dev.: 2.28148
 Formula: $y = mx + b$
 m: 2.02676
 b: -2.84629e-3
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.500583
 Level 3 : 0.100911
 Level 4 : 0.020981
 Level 5 : 0.005995

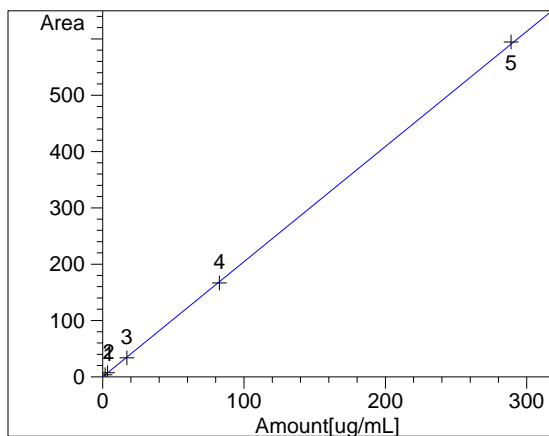


Styrene at exp. RT: 7.273
 FID1 A,
 Correlation: 0.99992
 Residual Std. Dev.: 2.74364
 Formula: $y = mx + b$
 m: 2.08658
 b: 2.03728e-2
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.500415
 Level 3 : 0.100876
 Level 4 : 0.020975
 Level 5 : 0.005993

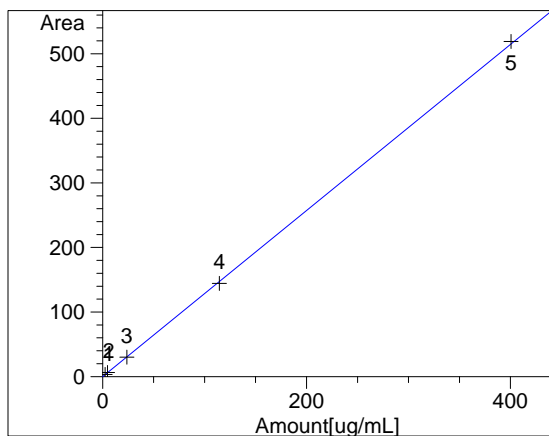


o-Xylene at exp. RT: 7.323
 FID1 A,
 Correlation: 0.99993
 Residual Std. Dev.: 2.44927
 Formula: $y = mx + b$
 m: 2.06082
 b: 5.99592e-2
 x: Amount
 y: Area
 Calibration Level Weights:
 Level 1 : 1
 Level 2 : 0.50057
 Level 3 : 0.100914
 Level 4 : 0.020982

Level 5 : 0.005995



Cumene at exp. RT: 7.564
FID1 A,
Correlation: 0.99992
Residual Std. Dev.: 2.57108
Formula: $y = mx + b$
m: 2.04544
b: -4.46700e-2
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.500578
Level 3 : 0.100915
Level 4 : 0.020982
Level 5 : 0.005995



Nitrobenzene at exp. RT: 8.713
FID1 A,
Correlation: 0.99992
Residual Std. Dev.: 2.71030
Formula: $y = mx + b$
m: 1.28637
b: 9.38611e-2
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.500417
Level 3 : 0.100891
Level 4 : 0.020977
Level 5 : 0.005994

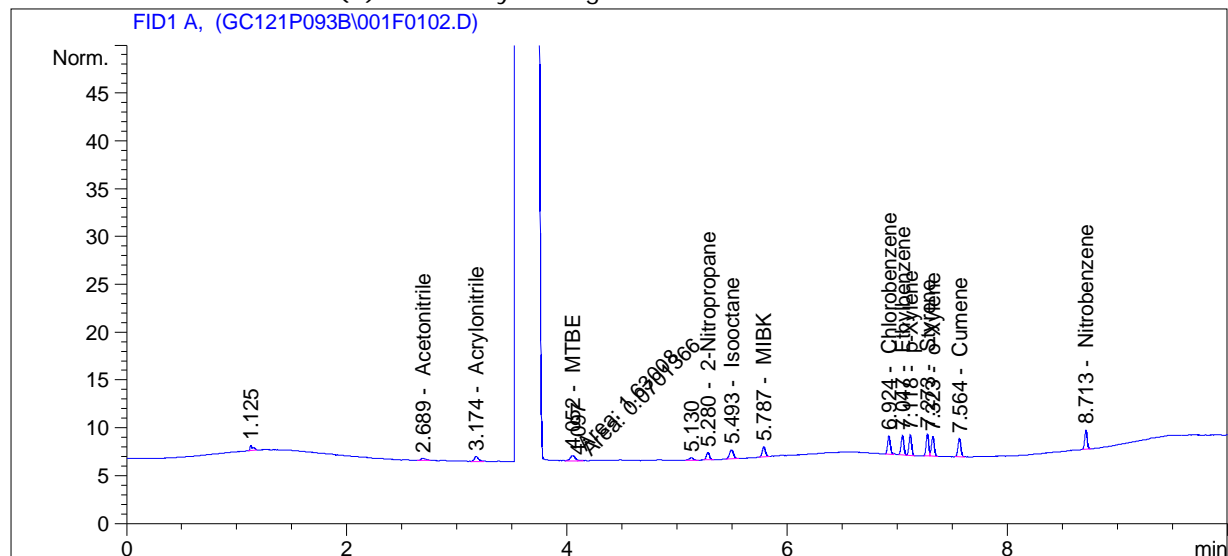
=====

Sample Name: gc121p67 #1

=====

Acq. Operator : SJE Seq. Line : 1
Acq. Instrument : Lucy Location : Vial 1
Injection Date : 8/27/2011 6:32:15 PM Inj : 2
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM
Additional Info : Peak(s) manually integrated



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	BB	6.87391e-1	2.55370	1.75539		Acetonitrile
3.174	BB	1.30191	1.24217	1.61719		Acrylonitrile
4.052	MF	1.63008	9.28349e-1	1.51329		MTBE
5.280	BB	1.53991	1.17085	1.80301		2-Nitropropane
5.493	BB	2.47592	5.12917e-1	1.26994		Isooctane
5.787	BB	2.12342	7.15641e-1	1.51961		MIBK
6.924	BB	3.28887	6.74457e-1	2.21820		Chlorobenzene
7.047	BV	3.44427	5.00203e-1	1.72284		Ethylbenzene
7.118	VB	3.45427	4.93803e-1	1.70573		p-Xylene
7.273	BV	3.76385	4.76679e-1	1.79415		Styrene
7.323	VB	3.65986	4.77331e-1	1.74696		o-Xylene
7.564	BB	3.49132	4.95135e-1	1.72868		Cumene
8.713	BB	3.10191	7.54456e-1	2.34025		Nitrobenzene

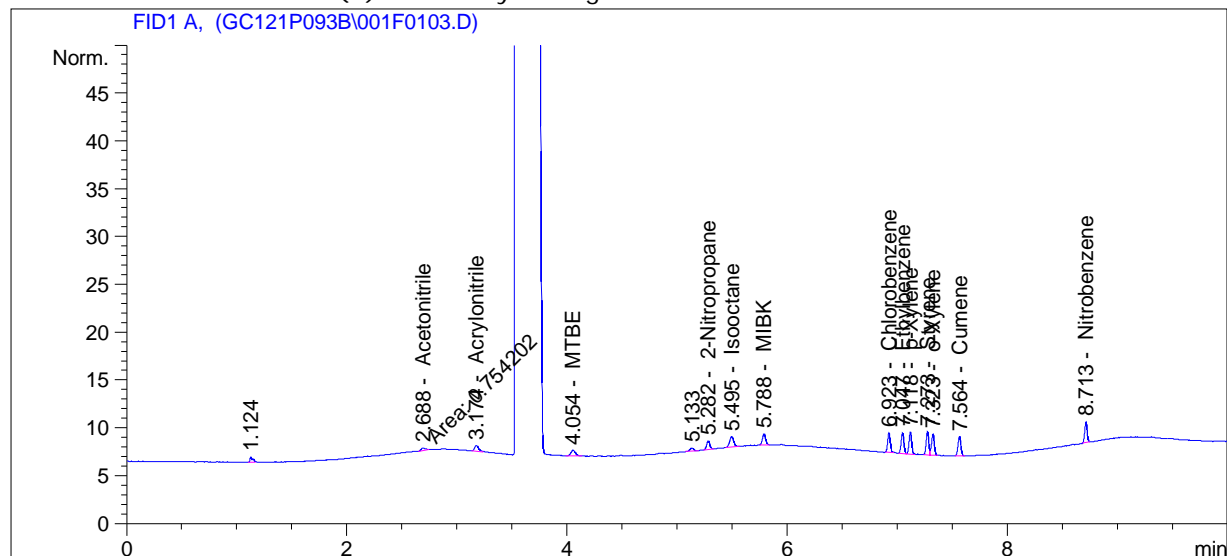
Sample Name: gc121p67 #1

```

=====
Acq. Operator   : SJE                               Seq. Line :    1
Acq. Instrument : Lucy                             Location  : Vial 1
Injection Date  : 8/27/2011 6:50:07 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Additional Info  : Peak(s) manually integrated
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier          :      1.0000
Dilution            :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.688	MM	7.54202e-1	2.55370	1.92601		Acetonitrile
3.174	BB	1.54138	1.22139	1.88263		Acrylonitrile
4.054	BB	1.70870	9.29377e-1	1.58803		MTBE
5.282	BB	1.74080	1.17347	2.04278		2-Nitropropane
5.495	BB	2.90222	5.16379e-1	1.49864		Isooctane
5.788	BB	2.44282	7.20704e-1	1.76055		MIBK
6.923	BB	3.41389	6.75147e-1	2.30488		Chlorobenzene
7.047	BV	3.65636	5.00031e-1	1.82829		Ethylbenzene
7.118	VB	3.67554	4.93781e-1	1.81491		p-Xylene
7.273	BV	3.99378	4.76808e-1	1.90427		Styrene
7.323	VB	3.86011	4.77707e-1	1.84400		o-Xylene
7.564	BB	3.66397	4.94852e-1	1.81313		Cumene
8.713	BB	3.37264	7.55749e-1	2.54887		Nitrobenzene

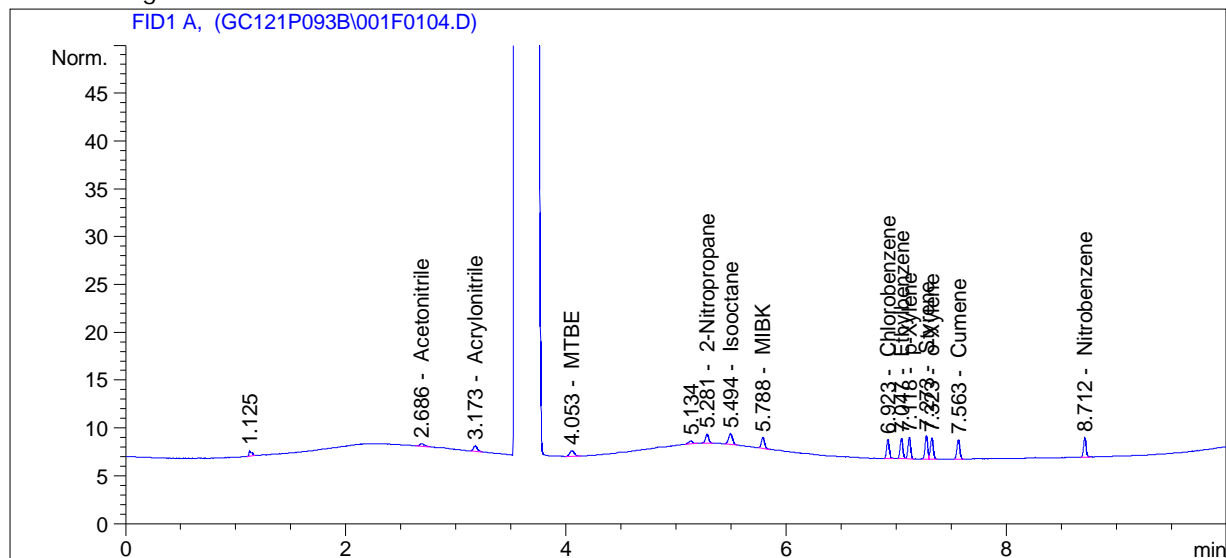
Sample Name: gc121p67 #1

```

=====
Acq. Operator   : SJE                               Seq. Line :    1
Acq. Instrument : Lucy                             Location  : Vial 1
Injection Date  : 8/27/2011 7:07:59 PM              Inj       :    4
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.686	BB	8.30839e-1	2.55370	2.12171		Acetonitrile
3.173	BB	1.36943	1.23558	1.69204		Acrylonitrile
4.053	BB	1.66623	9.28834e-1	1.54765		MTBE
5.281	BB	1.86844	1.17680	2.19878		2-Nitropropane
5.494	BB	2.89480	5.16279e-1	1.49452		Isooctane
5.788	BB	2.27831	7.17004e-1	1.63356		MIBK
6.923	BB	3.40890	6.75121e-1	2.30142		Chlorobenzene
7.047	BV	3.62534	5.00057e-1	1.81288		Ethylbenzene
7.118	VB	3.63530	4.93785e-1	1.79506		p-Xylene
7.273	BV	4.00133	4.76813e-1	1.90789		Styrene
7.323	VB	3.86701	4.77721e-1	1.84735		o-Xylene
7.563	BB	3.67942	4.94827e-1	1.82068		Cumene
8.712	BB	3.21542	7.54691e-1	2.42665		Nitrobenzene

Totals : 24.60017

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Instrument 1 9/1/2011 10:09:22 PM

FHR Pine Bend LLC
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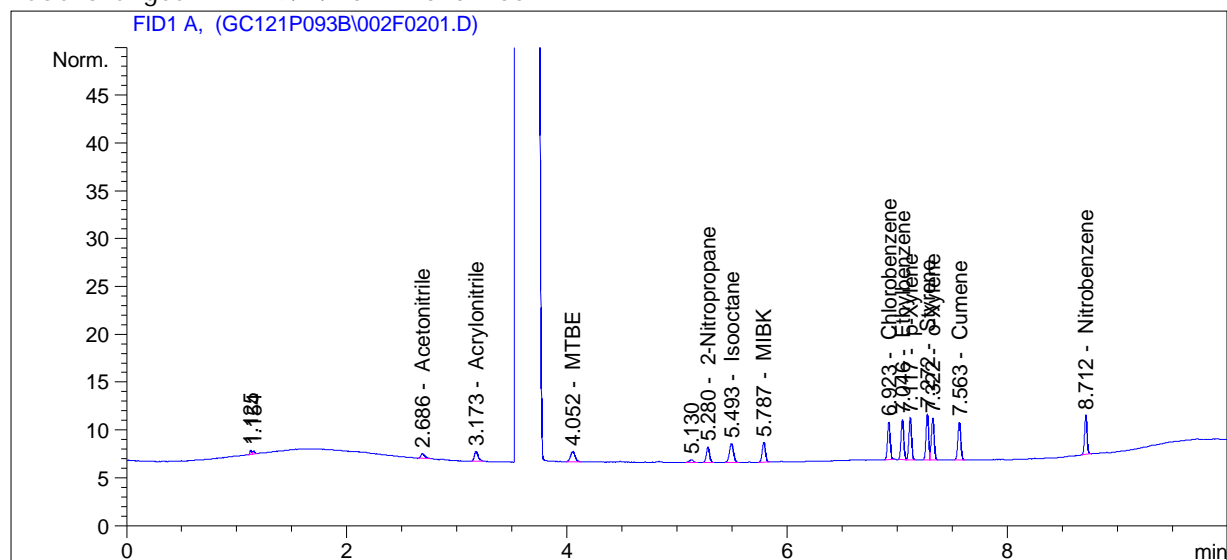
Sample Name: gc121p67 #2

```

=====
Acq. Operator   : SJE                      Seq. Line :    2
Acq. Instrument : Lucy                    Location  : Vial  2
Injection Date  : 8/27/2011 7:25:49 PM      Inj       :    1
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.686	BB	1.34647	2.47964	3.33876		Acetonitrile
3.173	BB	2.51891	1.17756	2.96617		Acrylonitrile
4.052	BB	3.12258	9.39022e-1	2.93217		MTBE
5.280	BB	3.15512	1.19531	3.77133		2-Nitropropane
5.493	BB	5.05725	5.32962e-1	2.69532		Isooctane
5.787	BB	4.17498	7.41968e-1	3.09770		MIBK
6.923	BB	6.72243	6.84090e-1	4.59875		Chlorobenzene
7.046	BV	7.19340	4.98553e-1	3.58629		Ethylbenzene
7.117	VB	7.23636	4.93593e-1	3.57182		p-Xylene
7.272	BV	7.88148	4.78014e-1	3.76746		Styrene
7.322	VB	7.59313	4.81413e-1	3.65543		o-Xylene
7.563	BB	7.28398	4.91890e-1	3.58292		Cumene
8.712	BB	6.39563	7.65975e-1	4.89889		Nitrobenzene

Totals : 46.46301

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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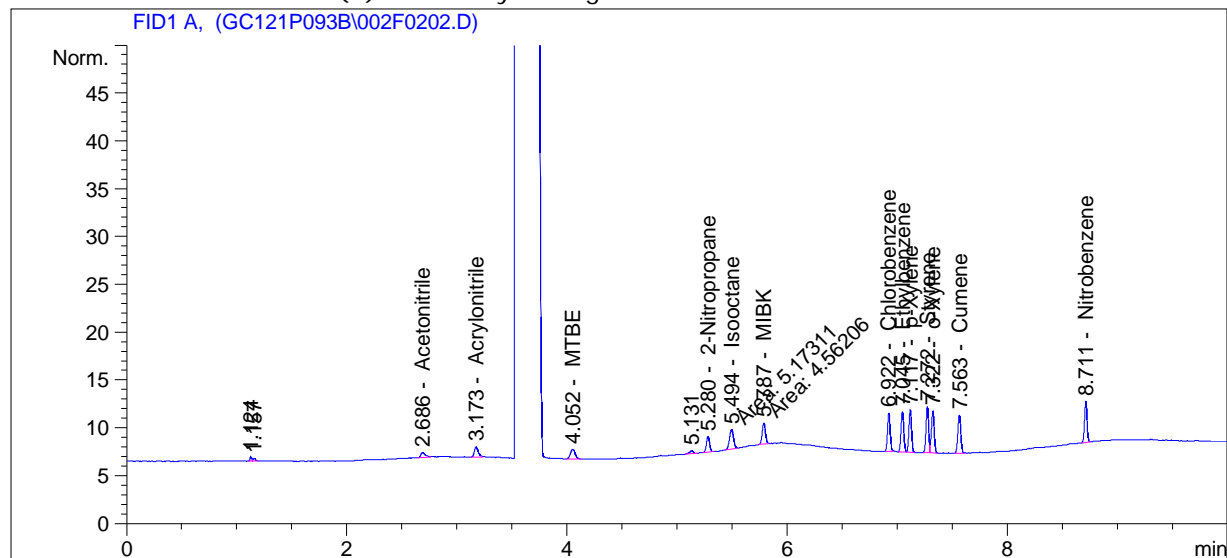
Sample Name: gc121p67 #2

```

=====
Acq. Operator   : SJE                               Seq. Line :    2
Acq. Instrument : Lucy                             Location  : Vial  2
Injection Date  : 8/27/2011 7:43:42 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Additional Info  : Peak(s) manually integrated
=====

```



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=====
External Standard Report
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```

```

Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.686	BB	1.40774	2.44682	3.44448		Acetonitrile
3.173	BB	2.52690	1.17734	2.97502		Acrylonitrile
4.052	BB	3.00565	9.38569e-1	2.82101		MTBE
5.280	BB	3.19274	1.19562	3.81731		2-Nitropropane
5.494	MM	5.17311	5.33462e-1	2.75966		Isooctane
5.787	MM	4.56206	7.44512e-1	3.39651		MIBK
6.922	BB	6.80650	6.84204e-1	4.65704		Chlorobenzene
7.045	BV	7.31505	4.98527e-1	3.64675		Ethylbenzene
7.117	VB	7.31031	4.93591e-1	3.60830		p-Xylene
7.272	BV	7.96316	4.78027e-1	3.80661		Styrene
7.322	VB	7.63639	4.81435e-1	3.67642		o-Xylene
7.563	BB	7.35425	4.91861e-1	3.61727		Cumene
8.711	BB	6.69130	7.66479e-1	5.12874		Nitrobenzene

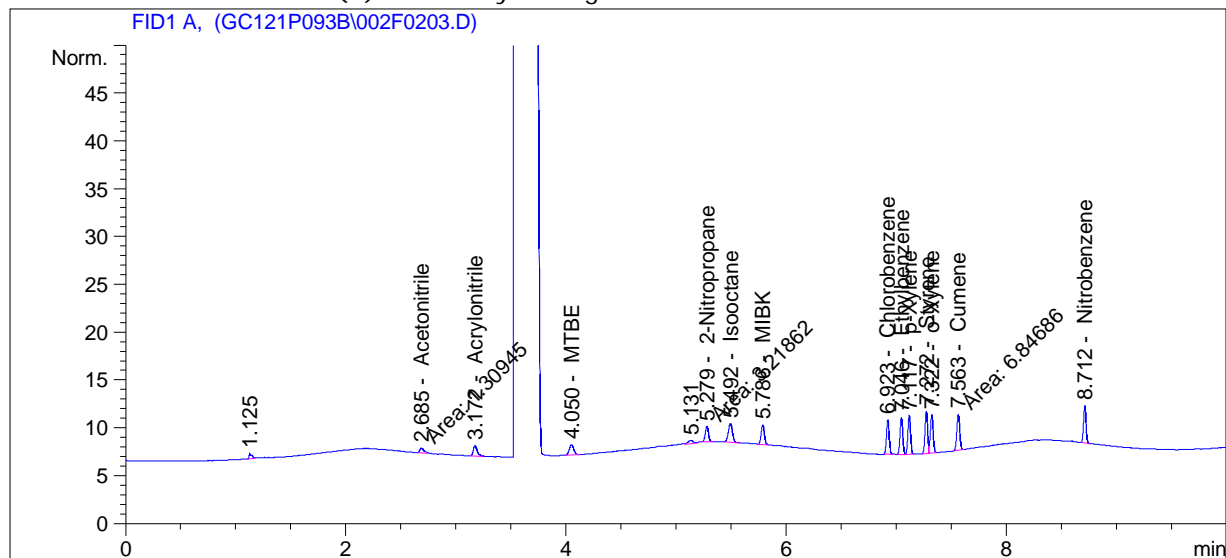
Sample Name: gc121p67 #2

```

=====
Acq. Operator   : SJE                               Seq. Line :    2
Acq. Instrument : Lucy                             Location  : Vial  2
Injection Date  : 8/27/2011 8:01:33 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Additional Info  : Peak(s) manually integrated
=====

```



External Standard Report

```

=====
Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.685	MM	1.30945	2.50096	3.27488		Acetonitrile
3.172	BB	2.60792	1.17520	3.06483		Acrylonitrile
4.050	BB	3.00390	9.38562e-1	2.81934		MTBE
5.279	MM	3.21862	1.19584	3.84894		2-Nitropropane
5.492	BB	5.19157	5.33540e-1	2.76991		Isooctane
5.786	BB	4.19296	7.42097e-1	3.11158		MIBK
6.923	BB	6.11562	6.83175e-1	4.17804		Chlorobenzene
7.046	BV	6.56647	4.98699e-1	3.27469		Ethylbenzene
7.117	VB	6.63595	4.93611e-1	3.27558		p-Xylene
7.272	BV	7.24327	4.77905e-1	3.46160		Styrene
7.322	VB	6.95775	4.81063e-1	3.34712		o-Xylene
7.563	MM	6.84686	4.92082e-1	3.36921		Cumene
8.712	BB	6.09516	7.65412e-1	4.66531		Nitrobenzene

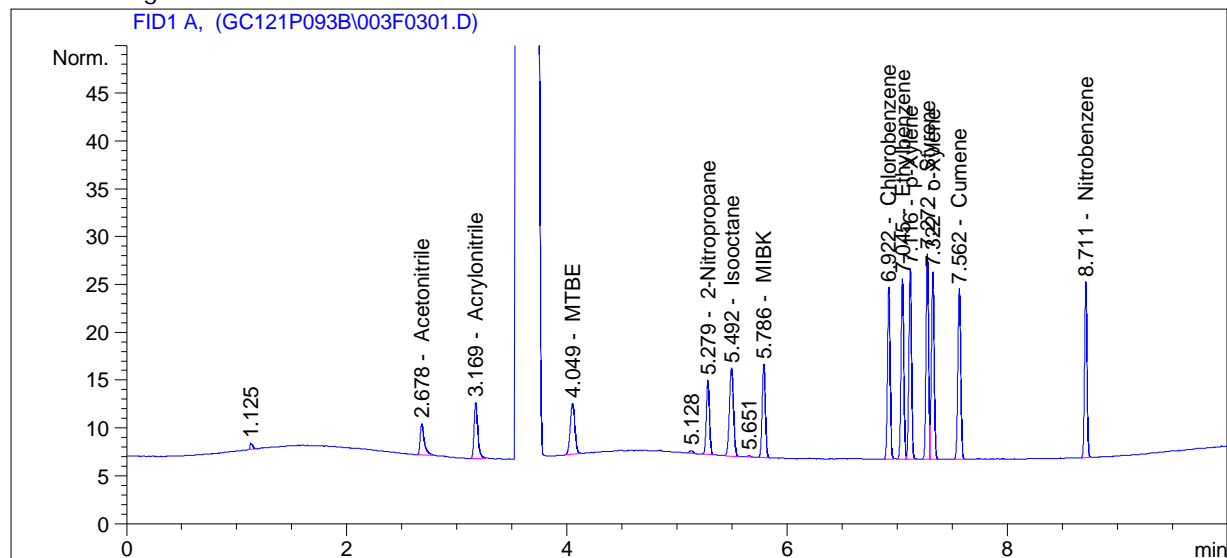
Sample Name: gc121p67 #3

```

=====
Acq. Operator   : SJE                               Seq. Line :    3
Acq. Instrument : Lucy                             Location  : Vial  3
Injection Date  : 8/27/2011 8:19:28 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report

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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.678	BB	8.51625	1.84474	15.71023		Acetonitrile
3.169	BB	13.40794	1.12143	15.03604		Acrylonitrile
4.049	BB	15.48230	9.48328e-1	14.68229		MTBE
5.279	BB	15.31014	1.21664	18.62693		2-Nitropropane
5.492	BB	23.87632	5.50565e-1	13.14548		Isooctane
5.786	BB	19.76621	7.65622e-1	15.13344		MIBK
6.922	BB	30.26154	6.91268e-1	20.91885		Chlorobenzene
7.045	BV	32.80093	4.97359e-1	16.31385		Ethylbenzene
7.116	VB	32.72991	4.93442e-1	16.15030		p-Xylene
7.272	BV	35.25493	4.78976e-1	16.88627		Styrene
7.322	VB	33.90556	4.84387e-1	16.42340		o-Xylene
7.562	BB	32.83269	4.89557e-1	16.07348		Cumene
8.711	BB	28.31553	7.74806e-1	21.93906		Nitrobenzene

Totals : 217.03962

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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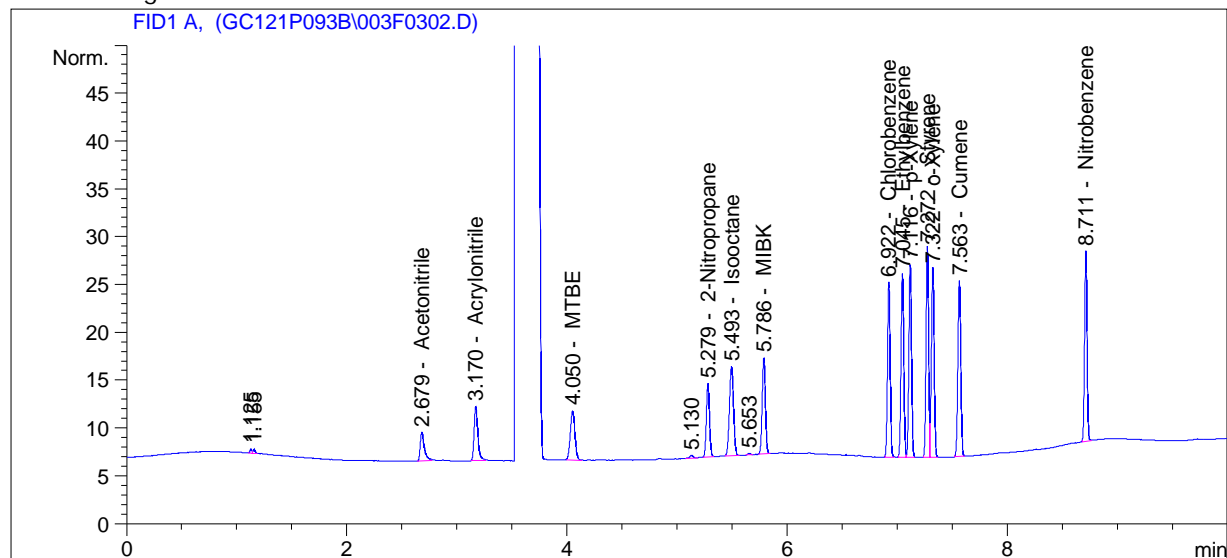
Sample Name: gc121p67 #3

```

=====
Acq. Operator   : SJE                               Seq. Line :    3
Acq. Instrument : Lucy                             Location  : Vial  3
Injection Date  : 8/27/2011 8:37:22 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.679	BB	7.74938	1.85653	14.38699		Acetonitrile
3.170	BB	13.06903	1.12177	14.66038		Acrylonitrile
4.050	BB	14.95316	9.48245e-1	14.17925		MTBE
5.279	BB	15.22505	1.21661	18.52294		2-Nitropropane
5.493	BB	24.20624	5.50630e-1	13.32868		Isooctane
5.786	BB	20.41983	7.65824e-1	15.63801		MIBK
6.922	BB	30.93083	6.91313e-1	21.38288		Chlorobenzene
7.045	BV	33.46923	4.97353e-1	16.64602		Ethylbenzene
7.116	VB	33.43438	4.93441e-1	16.49789		p-Xylene
7.272	BV	36.10305	4.78983e-1	17.29274		Styrene
7.322	VB	34.70638	4.84406e-1	16.81199		o-Xylene
7.563	BB	33.80345	4.89538e-1	16.54807		Cumene
8.711	BB	31.40873	7.75060e-1	24.34366		Nitrobenzene

Totals : 220.23950

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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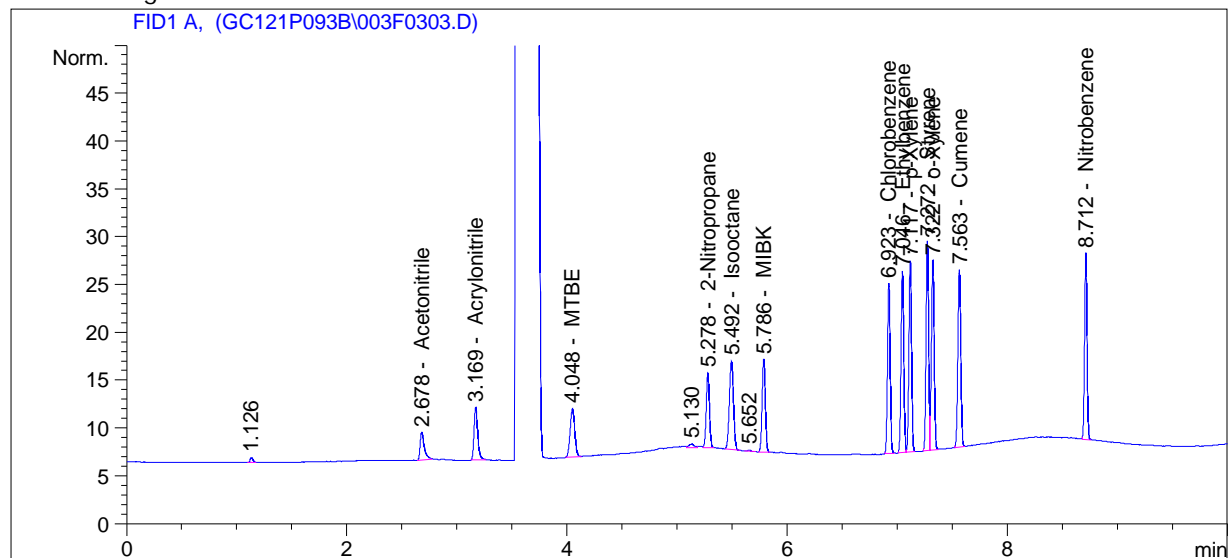
Sample Name: gc121p67 #3

```

=====
Acq. Operator   : SJE                      Seq. Line :    3
Acq. Instrument : Lucy                    Location  : Vial  3
Injection Date  : 8/27/2011 8:55:17 PM      Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.678	BB	7.67736	1.85776	14.26272		Acetonitrile
3.169	BB	12.86657	1.12197	14.43597		Acrylonitrile
4.048	BB	14.64773	9.48194e-1	13.88889		MTBE
5.278	BB	15.80744	1.21681	19.23473		2-Nitropropane
5.492	BB	24.03187	5.50596e-1	13.23185		Isooctane
5.786	BB	19.84538	7.65647e-1	15.19455		MIBK
6.923	BB	30.23770	6.91267e-1	20.90232		Chlorobenzene
7.046	BV	32.89591	4.97358e-1	16.36106		Ethylbenzene
7.117	VB	32.94354	4.93442e-1	16.25571		p-Xylene
7.272	BV	35.89388	4.78981e-1	17.19249		Styrene
7.322	VB	34.61783	4.84404e-1	16.76902		o-Xylene
7.563	BB	34.03367	4.89534e-1	16.66063		Cumene
8.712	BB	30.32619	7.74977e-1	23.50210		Nitrobenzene

Totals : 217.89205

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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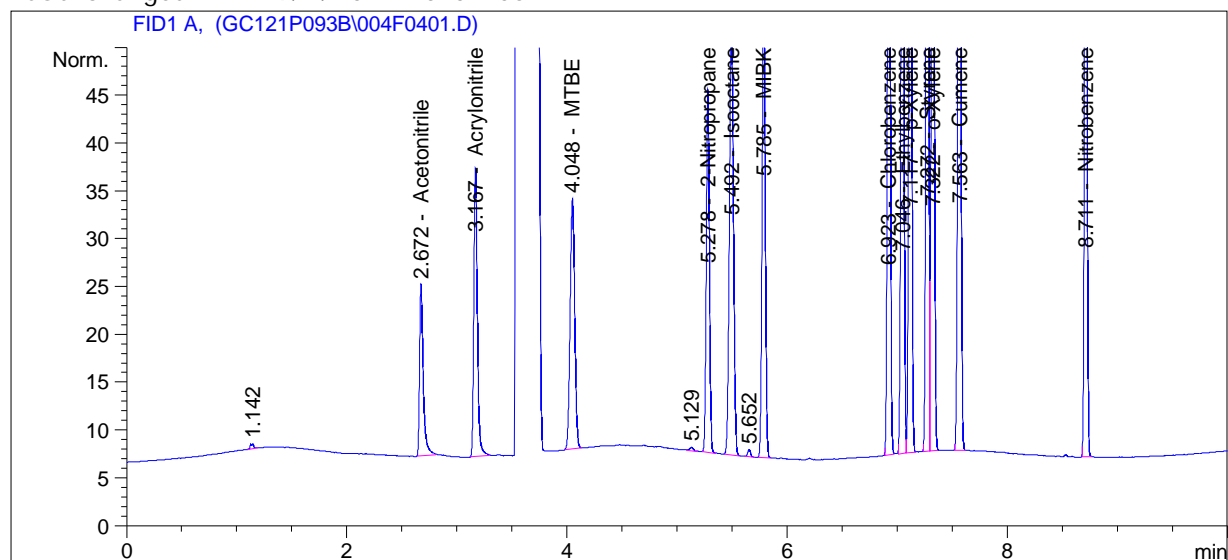
Sample Name: gc121p67 #4

```

=====
Acq. Operator   : SJE                               Seq. Line :    4
Acq. Instrument : Lucy                             Location  : Vial  4
Injection Date  : 8/27/2011 9:13:14 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.672	BB	41.81914	1.74978	73.17440		Acetonitrile
3.167	BB	66.77860	1.11105	74.19443		Acrylonitrile
4.048	BB	76.18259	9.50201e-1	72.38879		MTBE
5.278	BB	75.09682	1.22105	91.69692		2-Nitropropane
5.492	BB	117.22752	5.54332e-1	64.98301		Isooctane
5.785	BB	96.89773	7.70664e-1	74.67554		MIBK
6.923	BB	152.00226	6.92910e-1	105.32393		Chlorobenzene
7.046	BV	166.18037	4.97090e-1	82.60667		Ethylbenzene
7.117	VB	166.35890	4.93407e-1	82.08270		p-Xylene
7.272	BV	180.43996	4.79199e-1	86.46666		Styrene
7.322	VB	173.09261	4.85077e-1	83.96317		o-Xylene
7.563	BB	168.90520	4.89021e-1	82.59823		Cumene
8.711	BB	139.25053	7.76859e-1	108.17808		Nitrobenzene

Totals : 1082.33254

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:10:26 PM

FHR Pine Bend LLC
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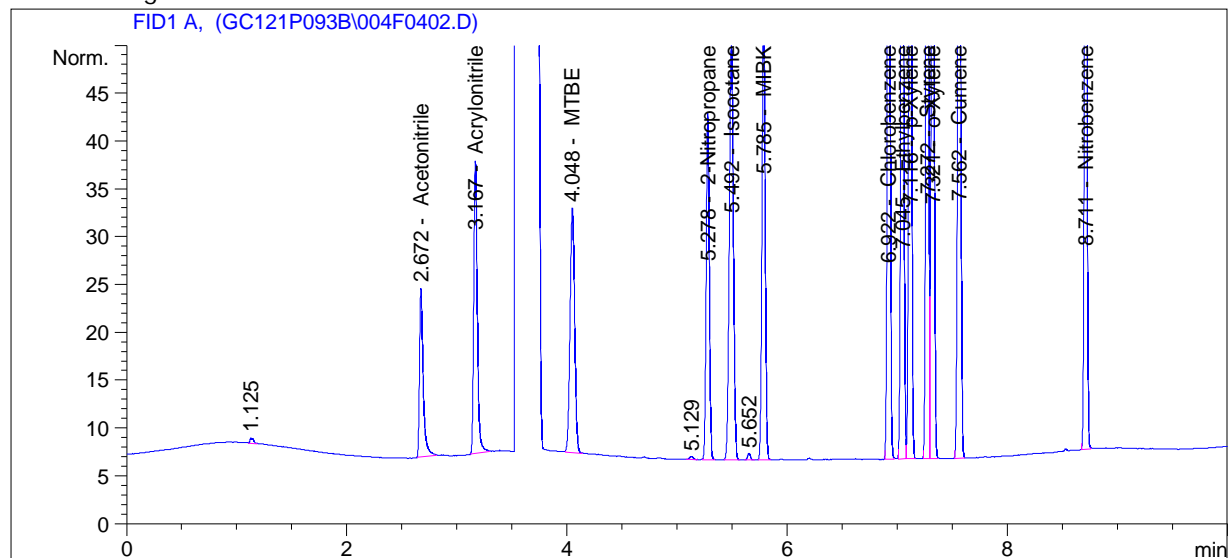
Page 1 of 2

Sample Name: gc121p67 #4

=====

Acq. Operator : SJE Seq. Line : 4
Acq. Instrument : Lucy Location : Vial 4
Injection Date : 8/27/2011 9:31:07 PM Inj : 2
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.672	BB	41.38242	1.75004	72.42085		Acetonitrile
3.167	BB	68.22843	1.11100	75.80148		Acrylonitrile
4.048	BB	74.61169	9.50191e-1	70.89537		MTBE
5.278	BB	71.67575	1.22100	87.51577		2-Nitropropane
5.492	BB	113.27386	5.54299e-1	62.78757		Isooctane
5.785	BB	95.00812	7.70638e-1	73.21685		MIBK
6.922	BB	147.27263	6.92897e-1	102.04479		Chlorobenzene
7.045	BV	160.10922	4.97093e-1	79.58916		Ethylbenzene
7.116	VB	159.82965	4.93408e-1	78.86118		p-Xylene
7.272	BV	172.38519	4.79197e-1	82.60639		Styrene
7.321	VB	165.10675	4.85068e-1	80.08808		o-Xylene
7.562	BB	160.85106	4.89028e-1	78.66063		Cumene
8.711	BB	145.00679	7.76880e-1	112.65290		Nitrobenzene

Totals : 1057.14100

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:10:34 PM

FHR Pine Bend LLC
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Page 1 of 2

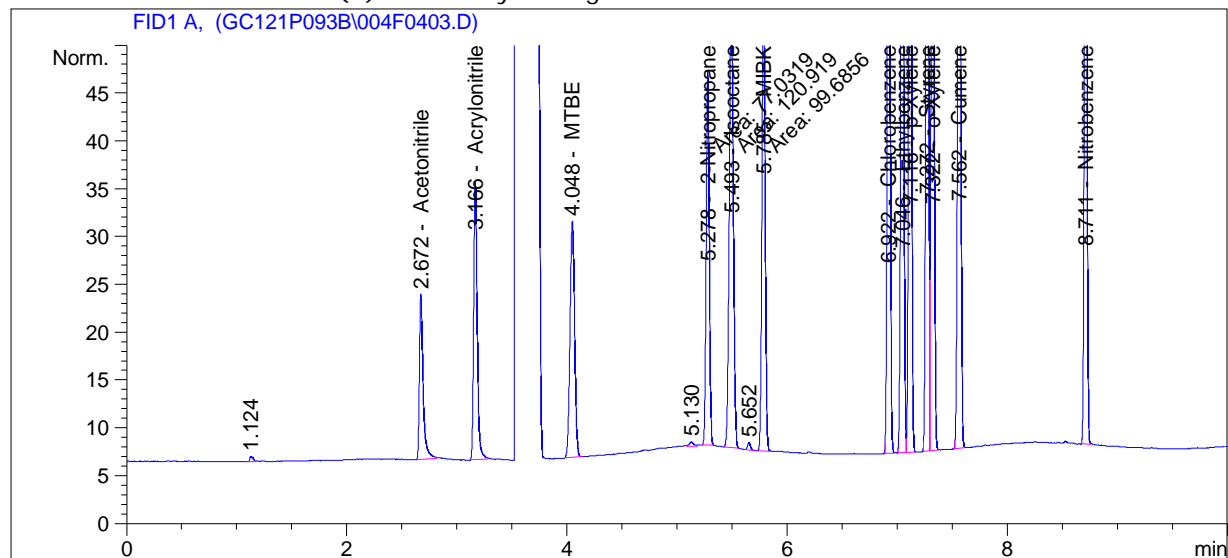
Sample Name: gc121p67 #4

```

=====
Acq. Operator   : SJE                               Seq. Line :    4
Acq. Instrument : Lucy                             Location  : Vial  4
Injection Date  : 8/27/2011 9:49:04 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Additional Info  : Peak(s) manually integrated
=====

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External Standard Report
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Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

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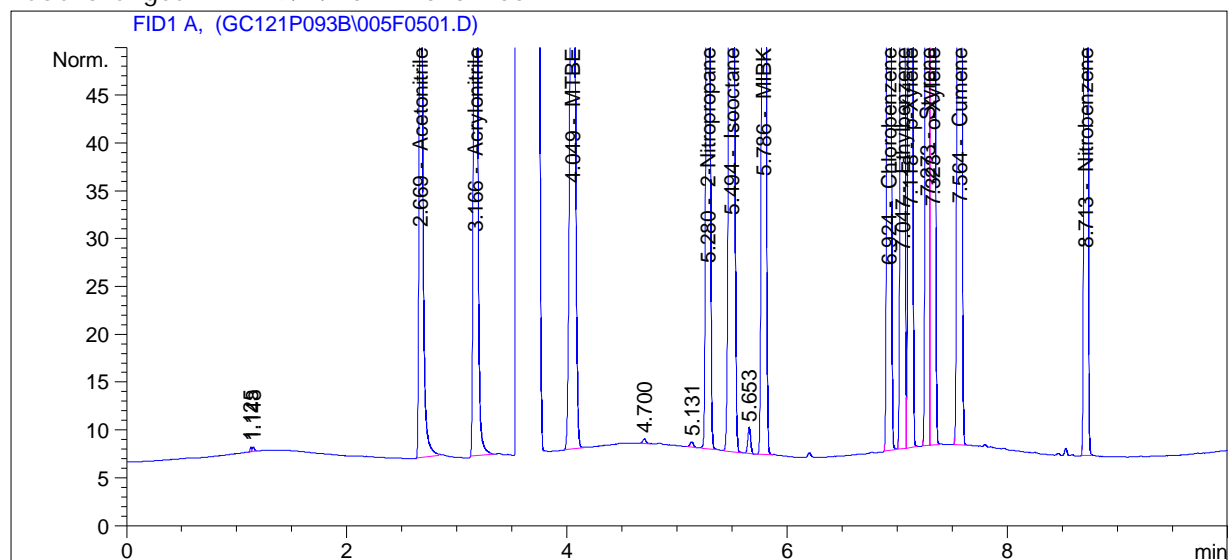
Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.672	BB	40.41683	1.75063	70.75472		Acetonitrile
3.166	BB	64.41273	1.11115	71.57199		Acrylonitrile
4.048	BB	72.02535	9.50174e-1	68.43660		MTBE
5.278	MM	77.03193	1.22108	94.06197		2-Nitropropane
5.493	MM	120.91884	5.54362e-1	67.03279		Isooctane
5.785	MM	99.68559	7.70700e-1	76.82765		MIBK
6.922	BB	151.90805	6.92910e-1	105.25861		Chlorobenzene
7.046	BV	165.66518	4.97091e-1	82.35060		Ethylbenzene
7.116	VB	165.64844	4.93407e-1	81.73216		p-Xylene
7.272	BV	179.73189	4.79199e-1	86.12731		Styrene
7.322	VB	172.77890	4.85076e-1	83.81095		o-Xylene
7.562	BB	169.85825	4.89021e-1	83.06417		Cumene
8.711	BB	148.68106	7.76893e-1	115.50921		Nitrobenzene

Sample Name: gc121p67 #5

=====

Acq. Operator	: SJE	Seq. Line	: 5
Acq. Instrument	: Lucy	Location	: Vial 5
Injection Date	: 8/27/2011 10:07:00 PM	Inj	: 1
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.669	BB	158.89749	1.73189	275.19327		Acetoni trile
3.166	BB	247.07895	1.10915	274.04723		Acryl oni tri le
4.049	BB	275.60596	9.50547e-1	261.97643		MTBE
5.280	BB	276.39847	1.22187	337.72346		2-Ni tropropane
5.494	BB	430.91541	5.55034e-1	239.17261		I sooctane
5.786	BB	355.49103	7.71603e-1	274.29808		MI BK
6.924	BB	559.73486	6.93208e-1	388.01243		Chl orobenzene
7.047	BV	614.06085	4.97042e-1	305.21412		Ethyl benzene
7.118	VB	615.46625	4.93401e-1	303.67177		p-Xyl ene
7.273	BV	670.18286	4.79239e-1	321.17750		Styrene
7.323	VB	642.77832	4.85199e-1	311.87567		o-Xyl ene
7.564	BB	627.93292	4.88927e-1	307.01318		Cumene
8.713	BB	507.14621	7.77239e-1	394.17404		Ni trobenzene

Totals : 3993.54979

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:10:51 PM

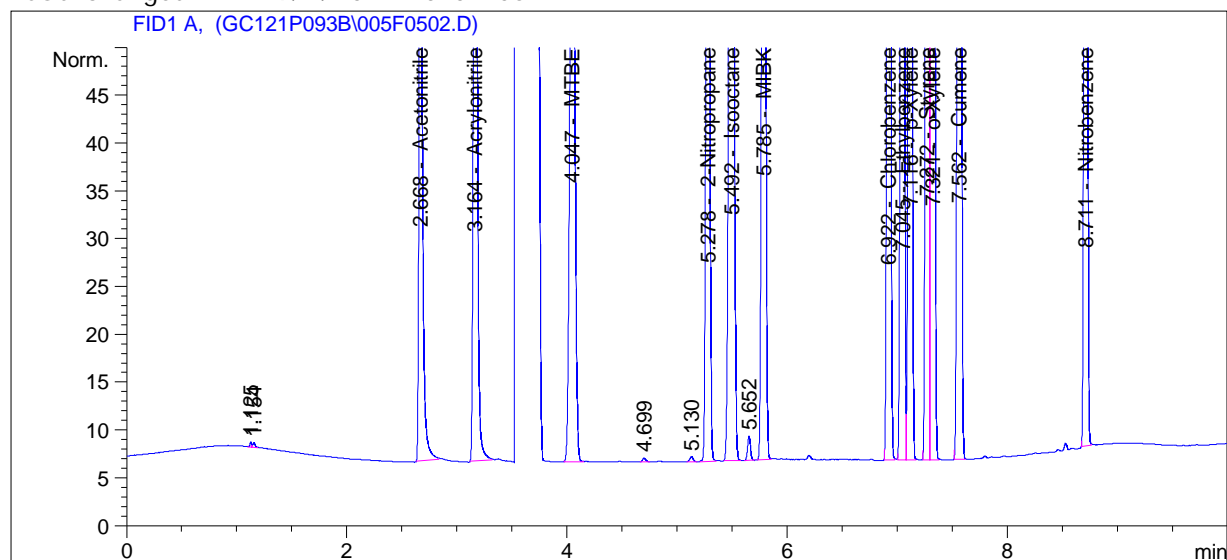
FHR Pine Bend LLC
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Page 1 of 2

Sample Name: gc121p67 #5

=====

Acq. Operator	: SJE	Seq. Line	: 5
Acq. Instrument	: Lucy	Location	: Vial 5
Injection Date	: 8/27/2011 10:24:53 PM	Inj	: 2
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		



=====

External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.668	BB	150.41692	1.73225	260.56003		Acetonitrile
3.164	BB	232.93021	1.10919	258.36415		Acrylonitrile
4.047	BB	248.91849	9.50533e-1	236.60521		MTBE
5.278	BB	250.45845	1.22184	306.02013		2-Nitropropane
5.492	BB	395.97742	5.55011e-1	219.77169		Isooctane
5.785	BB	334.65939	7.71581e-1	258.21698		MIBK
6.922	BB	515.38556	6.93198e-1	357.26425		Chlorobenzene
7.045	BV	560.81171	4.97044e-1	278.74800		Ethylbenzene
7.116	VB	559.25403	4.93401e-1	275.93672		p-Xylene
7.272	BV	603.40729	4.79237e-1	289.17510		Styrene
7.321	VB	577.34399	4.85194e-1	280.12401		o-Xylene
7.562	BB	563.47766	4.88931e-1	275.50153		Cumene
8.711	BB	517.64911	7.77242e-1	402.33882		Nitrobenzene

Totals : 3698.62660

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:10:59 PM

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Page 1 of 2

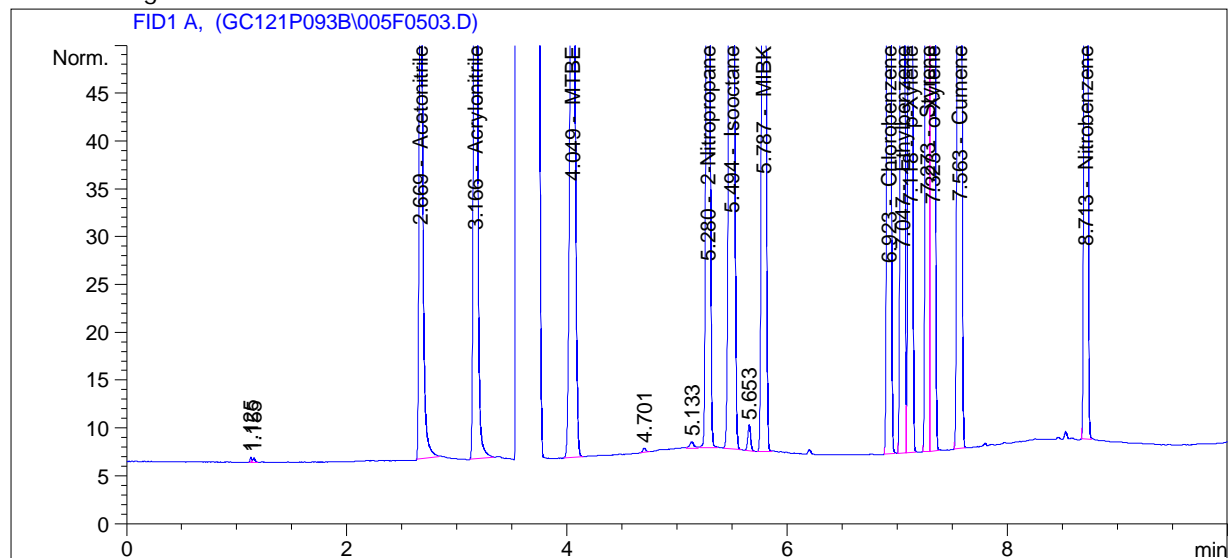
Sample Name: gc121p67 #5

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=====
Acq. Operator   : SJE                               Seq. Line :    5
Acq. Instrument : Lucy                             Location  : Vial  5
Injection Date  : 8/27/2011 10:42:47 PM             Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.669	BB	148.94467	1.73232	258.01967		Acetonitrile
3.166	BB	232.99452	1.10919	258.43544		Acrylonitrile
4.049	BB	252.26607	9.50535e-1	239.78768		MTBE
5.280	BB	269.14117	1.22186	328.85375		2-Nitropropane
5.494	BB	419.24368	5.55026e-1	232.69135		Isooctane
5.787	BB	346.85443	7.71595e-1	267.63101		MIBK
6.923	BB	528.08301	6.93201e-1	366.06762		Chlorobenzene
7.047	BV	576.12231	4.97043e-1	286.35774		Ethylbenzene
7.118	VB	576.22900	4.93401e-1	284.31216		p-Xylene
7.273	BV	626.32117	4.79238e-1	300.15665		Styrene
7.323	VB	600.04498	4.85196e-1	291.13955		o-Xylene
7.563	BB	591.89221	4.88929e-1	289.39317		Cumene
8.713	BB	532.02484	7.77246e-1	413.51428		Nitrobenzene

Totals : 3816.36005

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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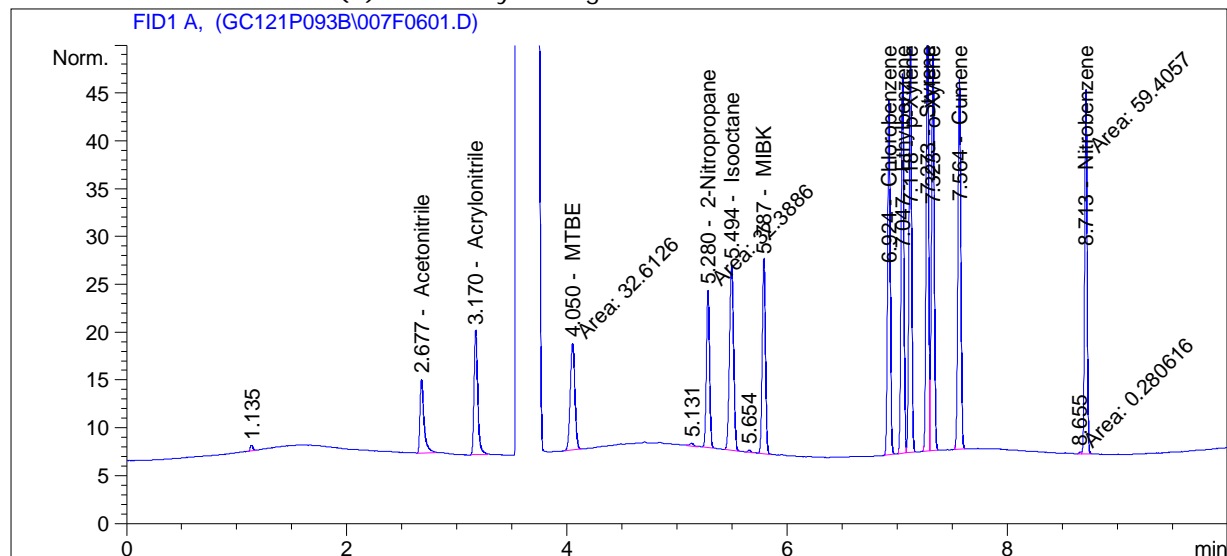
Sample Name: gc121p67 #3-SS

```

=====
Acq. Operator   : SJE                               Seq. Line :    6
Acq. Instrument : Lucy                             Location  : Vial 7
Injection Date  : 8/27/2011 11:00:39 PM             Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
Additional Info  : Peak(s) manually integrated
=====

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External Standard Report

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=====
Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.677	BB	19.49293	1.77759	34.65050		Acetonitrile
3.170	BB	29.70346	1.11431	33.09872		Acrylonitrile
4.050	MM	32.61255	9.49563e-1	30.96767		MTBE
5.280	MM	32.38863	1.21956	39.49990		2-Nitropropane
5.494	BB	50.43193	5.53056e-1	27.89170		Isooctane
5.787	BB	41.37352	7.68930e-1	31.81332		MIBK
6.924	BB	63.01230	6.92334e-1	43.62555		Chlorobenzene
7.047	BV	69.48827	4.97182e-1	34.54835		Ethylbenzene
7.118	VB	69.53649	4.93419e-1	34.31063		p-Xylene
7.273	BV	75.32198	4.79124e-1	36.08853		Styrene
7.323	VB	71.92435	4.84840e-1	34.87182		o-Xylene
7.564	BB	70.80361	4.89200e-1	34.63715		Cumene
8.713	FM	59.40573	7.76155e-1	46.10806		Nitrobenzene

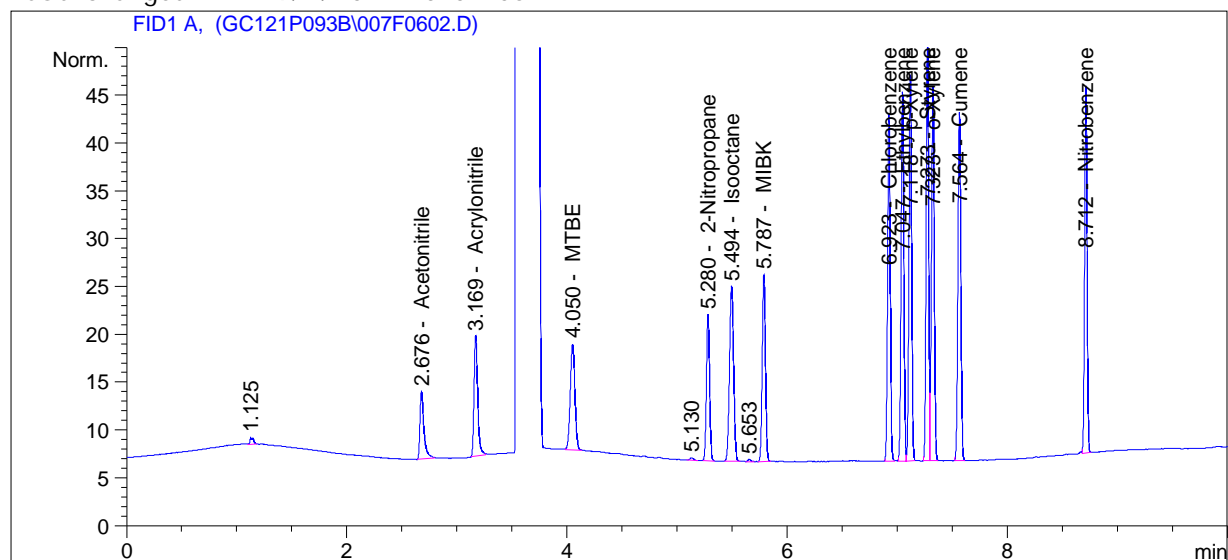
Sample Name: gc121p67 #3-SS

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=====
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Acq. Instrument : Lucy                    Location  : Vial 7
Injection Date  : 8/27/2011 11:18:32 PM   Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



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External Standard Report

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Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.676	BB	17.84957	1.78239	31.81488		Acetonitrile
3.169	BB	28.67597	1.11452	31.95980		Acrylonitrile
4.050	BB	32.59000	9.49562e-1	30.94624		MTBE
5.280	BB	30.30857	1.21938	36.95769		2-Nitropropane
5.494	BB	47.60916	5.52924e-1	26.32423		Isooctane
5.787	BB	39.79679	7.68810e-1	30.59615		MIBK
6.923	BB	61.59118	6.92311e-1	42.64026		Chlorobenzene
7.047	BV	67.42470	4.97187e-1	33.52270		Ethylbenzene
7.118	VB	67.13202	4.93420e-1	33.12427		p-Xylene
7.273	BV	72.06467	4.79118e-1	34.52746		Styrene
7.323	VB	68.59442	4.84821e-1	33.25598		o-Xylene
7.564	BB	67.02575	4.89218e-1	32.79019		Cumene
8.712	BB	59.94252	7.76166e-1	46.52535		Nitrobenzene

Totals : 444.98520

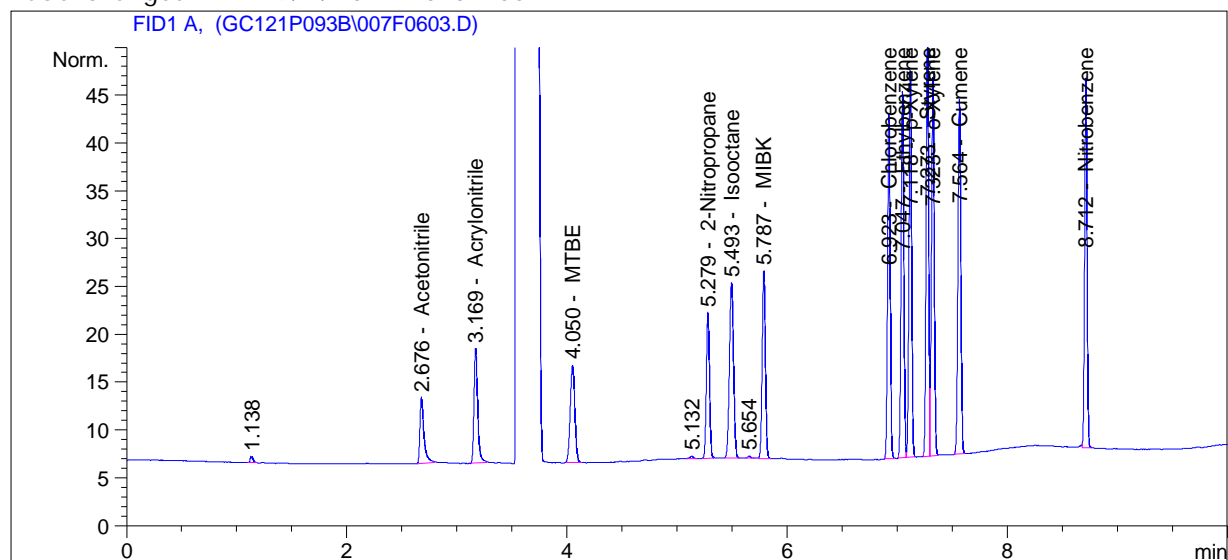
Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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Sample Name: gc121p67 #3-SS

=====

Acq. Operator : SJE Seq. Line : 6
Acq. Instrument : Lucy Location : Vial 7
Injection Date : 8/27/2011 11:36:26 PM Inj : 3
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.676	BB	17.33156	1.78409	30.92106		Acetonitrile
3.169	BB	27.33818	1.11481	30.47693		Acrylonitrile
4.050	BB	29.72847	9.49455e-1	28.22583		MTBE
5.279	BB	30.31053	1.21938	36.96009		2-Nitropropane
5.493	BB	47.73158	5.52930e-1	26.39221		Isooctane
5.787	BB	39.77619	7.68808e-1	30.58025		MIBK
6.923	BB	60.79046	6.92298e-1	42.08511		Chlorobenzene
7.047	BV	66.84827	4.97189e-1	33.23620		Ethylbenzene
7.118	VB	66.84679	4.93420e-1	32.98354		p-Xylene
7.273	BV	72.43439	4.79118e-1	34.70465		Styrene
7.323	VB	69.07368	4.84823e-1	33.48854		o-Xylene
7.564	BB	67.85600	4.89214e-1	33.19609		Cumene
8.712	BB	60.50098	7.76177e-1	46.95949		Nitrobenzene

Totals : 440.20999

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:17:39 PM

FHR Pine Bend LLC
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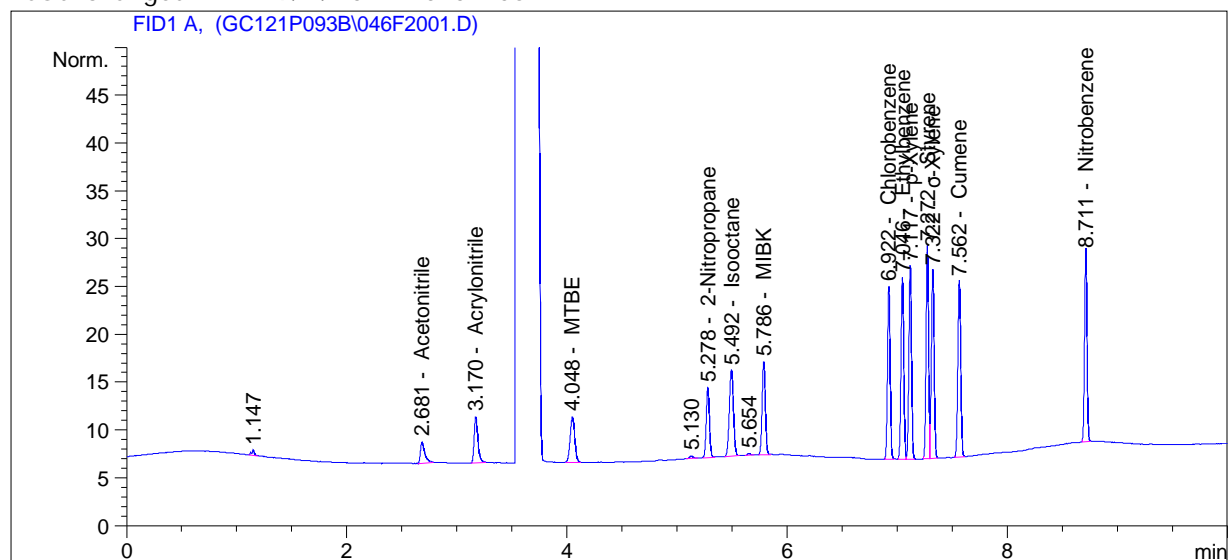
Sample Name: gc121p67 #3

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=====
Acq. Operator   : SJE                               Seq. Line :   20
Acq. Instrument : Lucy                             Location  : Vial 46
Injection Date  : 8/28/2011 11:32:08 AM             Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.681	BB	6.18262	1.88974	11.68354		Acetonitrile
3.170	BB	11.32446	1.12382	12.72662		Acrylonitrile
4.048	BB	13.78589	9.48039e-1	13.06956		MTBE
5.278	BB	14.64963	1.21639	17.81968		2-Nitropropane
5.492	BB	23.48274	5.50486e-1	12.92692		Isooctane
5.786	BB	19.98572	7.65691e-1	15.30289		MIBK
6.922	BB	30.52212	6.91286e-1	21.09951		Chlorobenzene
7.046	BV	33.19873	4.97355e-1	16.51157		Ethylbenzene
7.117	VB	33.22132	4.93441e-1	16.39277		p-Xylene
7.272	BV	35.85792	4.78981e-1	17.17526		Styrene
7.322	VB	34.54388	4.84402e-1	16.73314		o-Xylene
7.562	BB	33.85579	4.89537e-1	16.57366		Cumene
8.711	BB	31.57663	7.75073e-1	24.47418		Nitrobenzene

Totals : 212.48930

Pace Analytical
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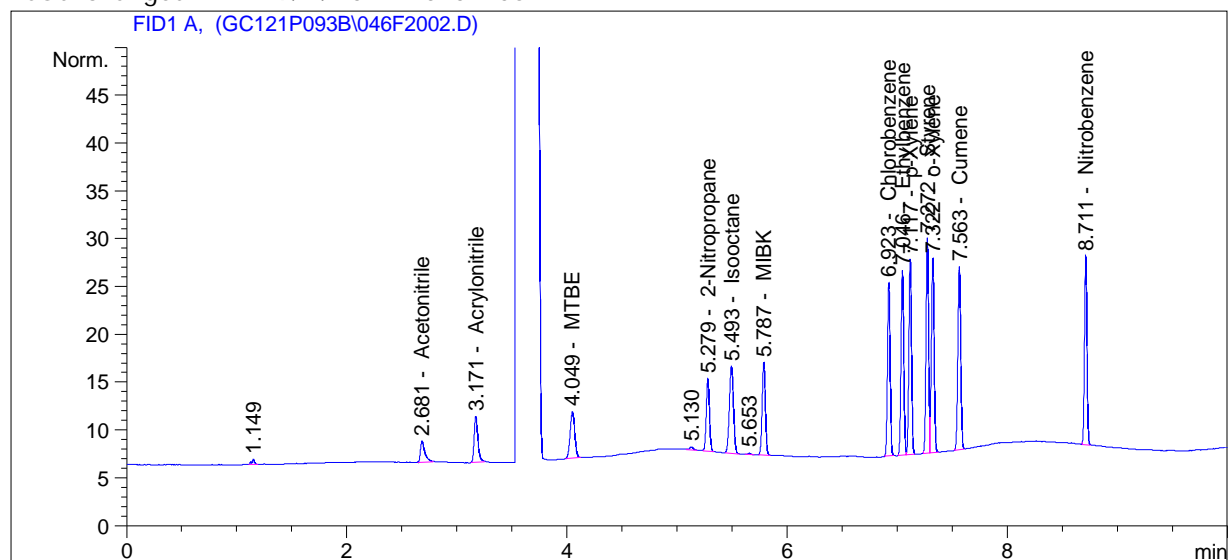
Sample Name: gc121p67 #3

```

=====
Acq. Operator   : SJE                               Seq. Line :   20
Acq. Instrument : Lucy                             Location  : Vial 46
Injection Date  : 8/28/2011 11:49:59 AM             Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

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Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.681	BB	6.20014	1.88928	11.71377		Acetonitrile
3.171	BB	11.34966	1.12378	12.75456		Acrylonitrile
4.049	BB	14.18973	9.48114e-1	13.45348		MTBE
5.279	BB	15.05785	1.21655	18.31860		2-Nitropropane
5.493	BB	23.62364	5.50515e-1	13.00516		Isooctane
5.787	BB	19.74300	7.65614e-1	15.11552		MIBK
6.923	BB	30.61713	6.91292e-1	21.16538		Chlorobenzene
7.046	BV	33.50608	4.97352e-1	16.66433		Ethylbenzene
7.117	VB	33.66124	4.93441e-1	16.60982		p-Xylene
7.272	BV	36.80967	4.78988e-1	17.63139		Styrene
7.322	VB	35.51013	4.84425e-1	17.20201		o-Xylene
7.563	BB	34.89572	4.89518e-1	17.08208		Cumene
8.711	BB	30.83983	7.75017e-1	23.90140		Nitrobenzene

Totals : 214.61751

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:24:11 PM

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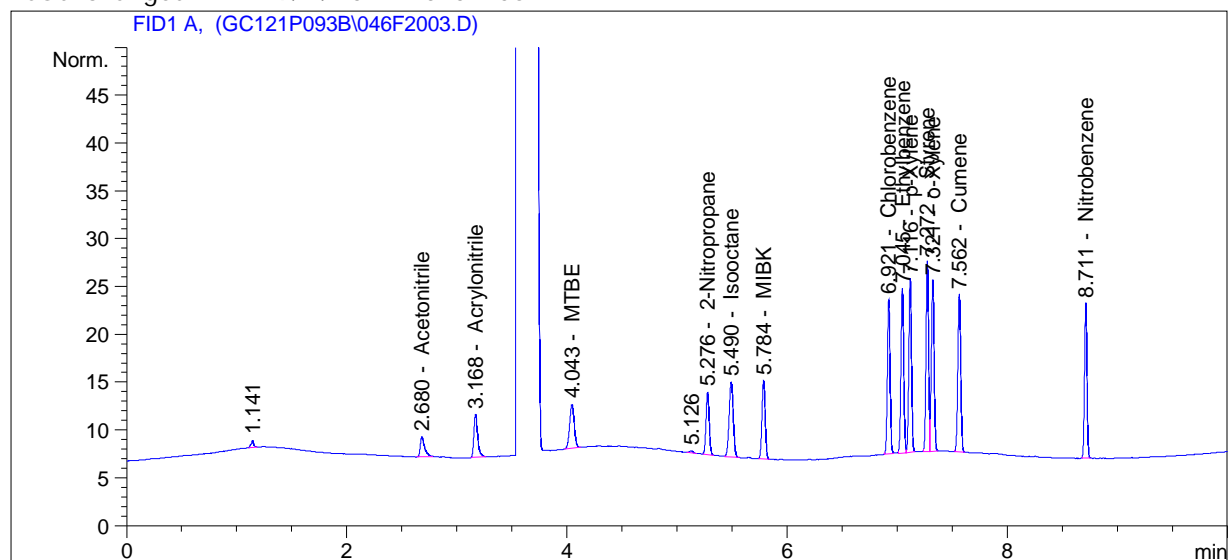
Sample Name: gc121p67 #3

```

=====
Acq. Operator   : SJE                               Seq. Line :   20
Acq. Instrument : Lucy                             Location  : Vial 46
Injection Date  : 8/28/2011 12:07:52 PM             Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.680	BB	5.94400	1.89633	11.27180		Acetonitrile
3.168	BB	10.76316	1.12462	12.10446		Acrylonitrile
4.043	BB	13.44319	9.47971e-1	12.74376		MTBE
5.276	BB	13.07145	1.21569	15.89085		2-Nitropropane
5.490	BB	20.50165	5.49787e-1	11.27154		Isooctane
5.784	BB	16.81149	7.64508e-1	12.85253		MIBK
6.921	BB	27.51264	6.91064e-1	19.01299		Chlorobenzene
7.045	BV	30.04231	4.97390e-1	14.94275		Ethylbenzene
7.116	VB	30.11162	4.93446e-1	14.85844		p-Xylene
7.272	BV	32.56803	4.78953e-1	15.59857		Styrene
7.321	VB	31.33393	4.84316e-1	15.17553		o-Xylene
7.562	BB	30.33945	4.89612e-1	14.85455		Cumene
8.711	BB	25.17257	7.74485e-1	19.49577		Nitrobenzene

Totals : 190.07353

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:24:20 PM

FHR Pine Bend LLC
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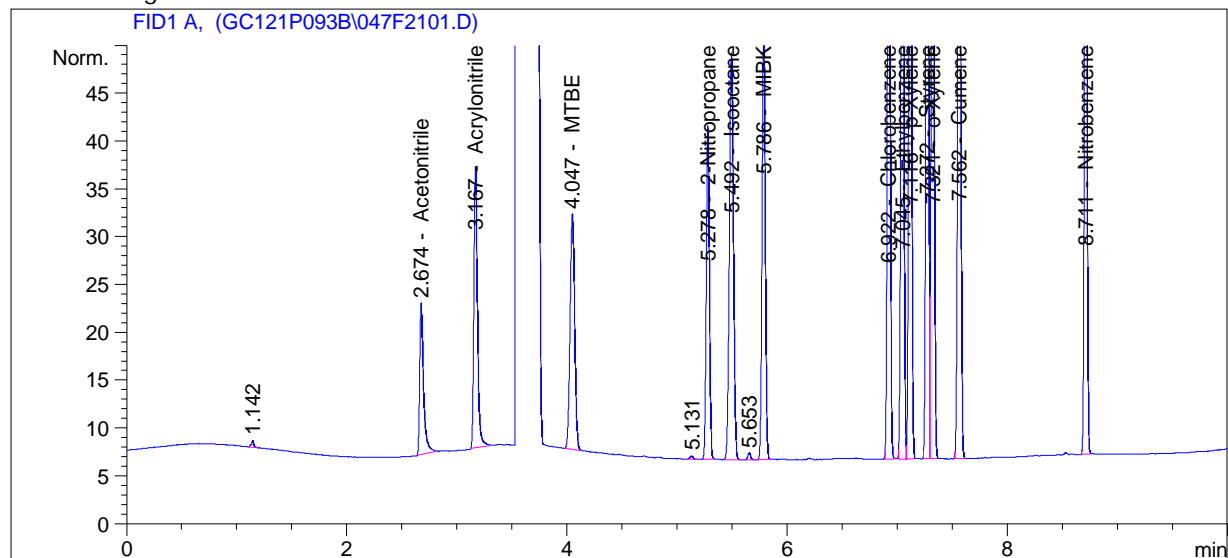
Sample Name: gc121p67 #4

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=====
Acq. Operator   : SJE                               Seq. Line :   21
Acq. Instrument : Lucy                             Location  : Vial 47
Injection Date  : 8/28/2011 12:25:45 PM             Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.674	BB	38.46898	1.75190	67.39370		Acetonitrile
3.167	BB	65.90228	1.11109	73.22307		Acrylonitrile
4.047	BB	71.86304	9.50173e-1	68.28230		MTBE
5.278	BB	69.26916	1.22095	84.57448		2-Nitropropane
5.492	BB	110.24139	5.54271e-1	61.10364		Isooctane
5.786	BB	92.75545	7.70606e-1	71.47789		MIBK
6.922	BB	146.48546	6.92895e-1	101.49903		Chlorobenzene
7.045	BV	160.02281	4.97093e-1	79.54621		Ethylbenzene
7.116	VB	159.95334	4.93408e-1	78.92221		p-Xylene
7.272	BV	172.63130	4.79197e-1	82.72434		Styrene
7.321	VB	165.57936	4.85069e-1	80.31741		o-Xylene
7.562	BB	161.53929	4.89027e-1	78.99710		Cumene
8.711	BB	142.36153	7.76871e-1	110.59651		Nitrobenzene

Totals : 1038.65787

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:24:28 PM

FHR Pine Bend LLC
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Page 1 of 2

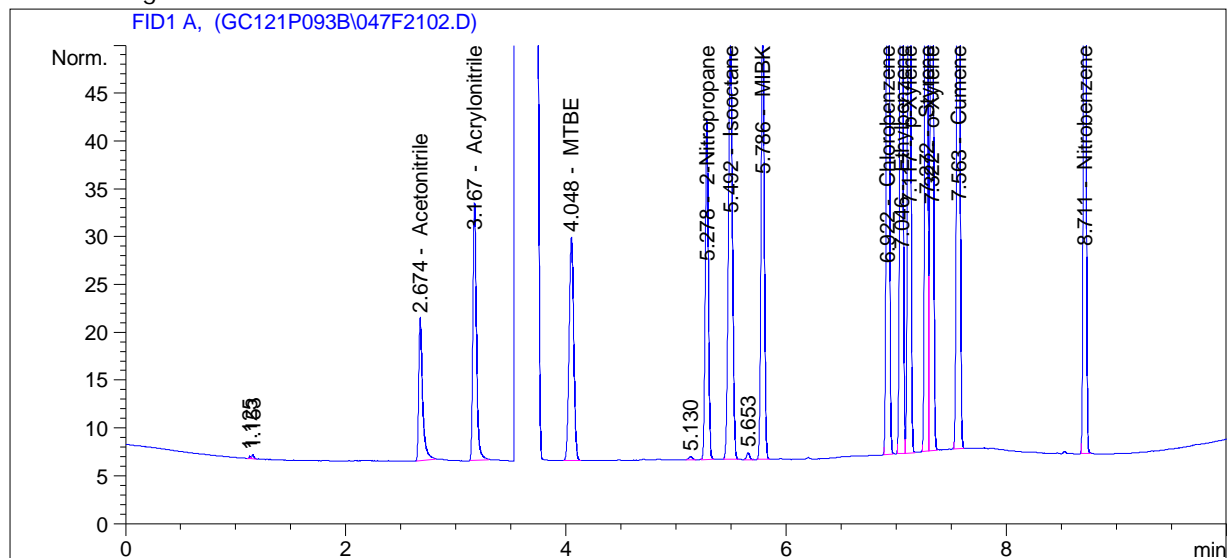
Sample Name: gc121p67 #4

```

=====
Acq. Operator   : SJE                               Seq. Line :   21
Acq. Instrument : Lucy                             Location  : Vial 47
Injection Date  : 8/28/2011 12:43:43 PM             Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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=====
External Standard Report
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Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.674	BB	36.58510	1.75326	64.14306		Acetoni trile
3.167	BB	60.36816	1.11133	67.08882		Acryl oni tri le
4.048	BB	67.98295	9.50144e-1	64.59357		MTBE
5.278	BB	70.31445	1.22097	85.85201		2-Ni tropropane
5.492	BB	112.19056	5.54289e-1	62.18601		I sooctane
5.786	BB	94.48367	7.70630e-1	72.81200		MI BK
6.922	BB	153.36891	6.92914e-1	106.27145		Chl orobenzene
7.046	BV	168.00224	4.97090e-1	83.51218		Ethyl benzene
7.117	VB	168.49384	4.93407e-1	83.13608		p-Xyl ene
7.272	BV	183.68417	4.79200e-1	88.02146		Styrene
7.322	VB	176.65231	4.85080e-1	85.69050		o-Xyl ene
7.563	BB	174.13347	4.89017e-1	85.15429		Cumene
8.711	BB	145.66469	7.76882e-1	113.16433		Ni trobenzene

Totals : 1061.62576

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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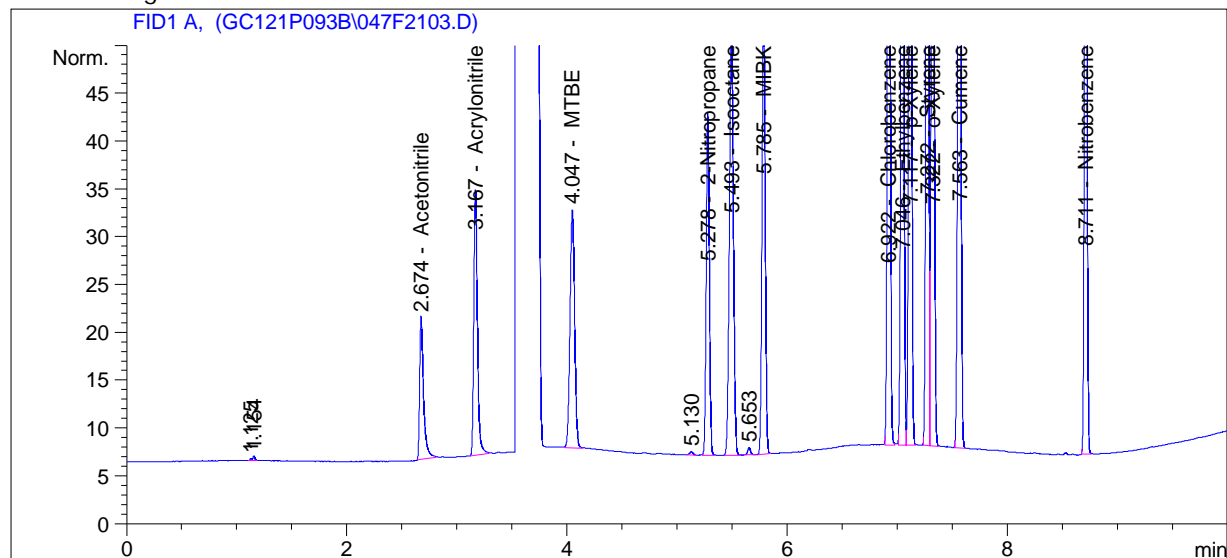
Sample Name: gc121p67 #4

```

=====
Acq. Operator   : SJE                               Seq. Line :   21
Acq. Instrument : Lucy                             Location  : Vial 47
Injection Date  : 8/28/2011 1:01:39 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



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External Standard Report
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```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.674	BB	36.93258	1.75300	64.74264		Acetonitrile
3.167	BB	62.97108	1.11121	69.97401		Acrylonitrile
4.047	BB	72.91841	9.50180e-1	69.28561		MTBE
5.278	BB	70.96156	1.22098	86.64290		2-Nitropropane
5.493	BB	112.99763	5.54296e-1	62.63417		Isooctane
5.785	BB	95.49623	7.70645e-1	73.59365		MIBK
6.922	BB	158.72188	6.92928e-1	109.98276		Chlorobenzene
7.046	BV	172.63844	4.97088e-1	85.81648		Ethylbenzene
7.117	VB	172.30435	4.93407e-1	85.01618		p-Xylene
7.272	BV	185.01971	4.79200e-1	88.66152		Styrene
7.322	VB	177.03329	4.85080e-1	85.87537		o-Xylene
7.563	BB	170.91977	4.89020e-1	83.58314		Cumene
8.711	BB	142.39771	7.76871e-1	110.62464		Nitrobenzene

Totals : 1076.43308

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:24:45 PM

FHR Pine Bend LLC
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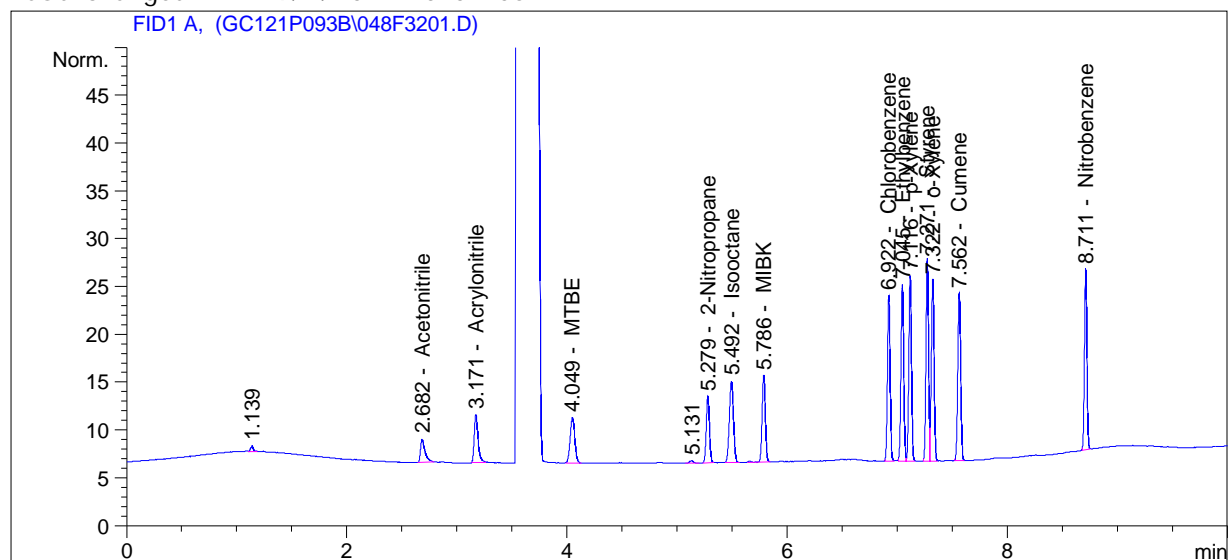
Page 1 of 2

Sample Name: gc121p67 #3

=====

Acq. Operator	: SJE	Seq. Line	: 32
Acq. Instrument	: Lucy	Location	: Vial 48
Injection Date	: 8/28/2011 10:17:21 PM	Inj	: 1
		Inj Volume	: External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.682	BB	7.01203	1.87031	13.11469		Acetonitrile
3.171	BB	12.06567	1.12287	13.54822		Acrylonitrile
4.049	BB	13.85524	9.48052e-1	13.13549		MTBE
5.279	BB	13.93757	1.21610	16.94941		2-Nitropropane
5.492	BB	22.12082	5.50190e-1	12.17065		Isooctane
5.786	BB	18.53638	7.65201e-1	14.18406		MIBK
6.922	BB	29.29674	6.91201e-1	20.24993		Chlorobenzene
7.045	BV	32.00314	4.97368e-1	15.91733		Ethylbenzene
7.116	VB	31.97777	4.93443e-1	15.77920		p-Xylene
7.271	BV	34.44332	4.78970e-1	16.49731		Styrene
7.322	VB	33.16201	4.84367e-1	16.06259		o-Xylene
7.562	BB	32.27578	4.89569e-1	15.80121		Cumene
8.711	BB	29.46236	7.74907e-1	22.83058		Nitrobenzene

Totals : 206.24068

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:29:29 PM

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Page 1 of 2

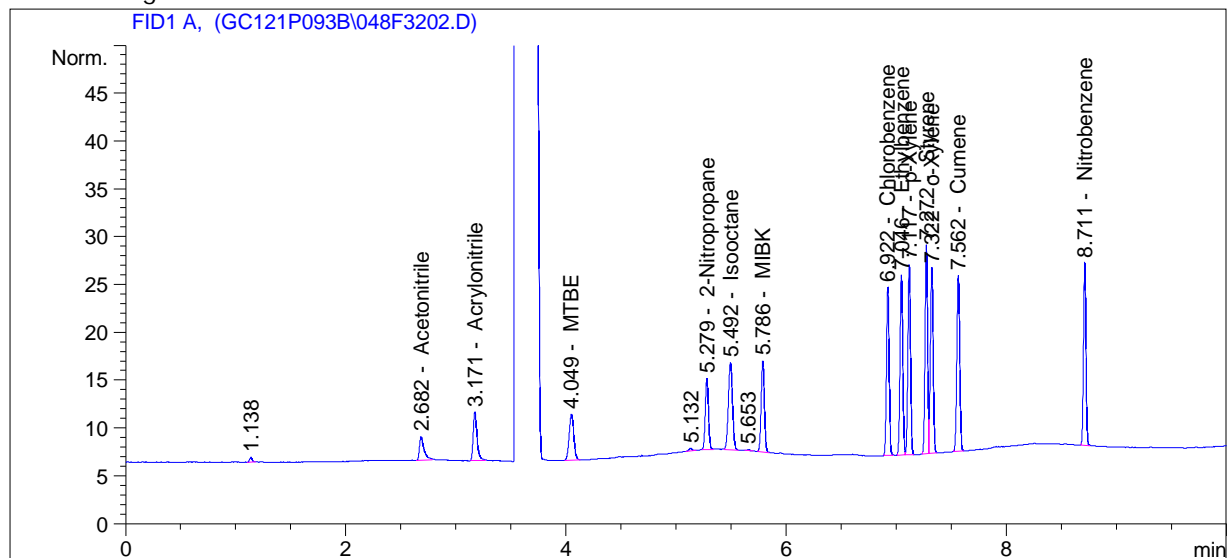
Sample Name: gc121p67 #3

```

=====
Acq. Operator   : SJE                      Seq. Line :   32
Acq. Instrument : Lucy                    Location  : Vial 48
Injection Date  : 8/28/2011 10:35:09 PM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.682	BB	6.98981	1.87077	13.07634		Acetonitrile
3.171	BB	12.16995	1.12275	13.66380		Acrylonitrile
4.049	BB	13.98498	9.48076e-1	13.25883		MTBE
5.279	BB	14.92552	1.21650	18.15686		2-Nitropropane
5.492	BB	23.75395	5.50541e-1	13.07753		Isooctane
5.786	BB	19.39828	7.65502e-1	14.84941		MIBK
6.922	BB	29.86802	6.91241e-1	20.64602		Chlorobenzene
7.046	BV	32.65131	4.97361e-1	16.23949		Ethylbenzene
7.117	VB	32.73710	4.93442e-1	16.15385		p-Xylene
7.272	BV	35.51681	4.78978e-1	17.01178		Styrene
7.322	VB	34.26625	4.84396e-1	16.59842		o-Xylene
7.562	BB	33.78836	4.89538e-1	16.54070		Cumene
8.711	BB	29.92065	7.74945e-1	23.18685		Nitrobenzene

Totals : 212.45988

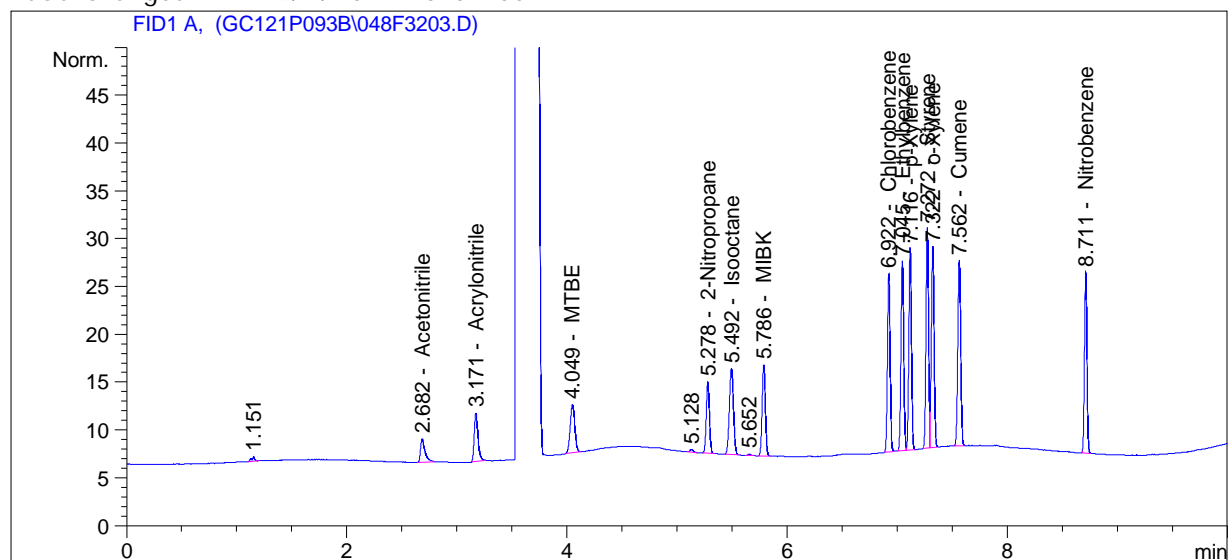
Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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Sample Name: gc121p67 #3

=====

Acq. Operator	: SJE	Seq. Line	: 32
Acq. Instrument	: Lucy	Location	: Vial 48
Injection Date	: 8/28/2011 10:52:56 PM	Inj	: 3
		Inj Volume	: External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.682	BB	6.97552	1.87107	13.05169		Acetonitrile
3.171	BB	11.98663	1.12297	13.46061		Acrylonitrile
4.049	BB	14.70706	9.48204e-1	13.94529		MTBE
5.278	BB	14.85367	1.21647	18.06904		2-Nitropropane
5.492	BB	23.47585	5.50485e-1	12.92309		Isooctane
5.786	BB	19.45037	7.65519e-1	14.88962		MIBK
6.922	BB	31.55782	6.91353e-1	21.81758		Chlorobenzene
7.045	BV	34.49612	4.97343e-1	17.15640		Ethylbenzene
7.116	VB	34.64668	4.93439e-1	17.09604		p-Xylene
7.272	BV	37.80046	4.78995e-1	18.10623		Styrene
7.322	VB	36.44554	4.84446e-1	17.65591		o-Xylene
7.562	BB	35.93578	4.89500e-1	17.59055		Cumene
8.711	BB	29.72941	7.74929e-1	23.03818		Nitrobenzene

Totals : 218.80024

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:29:46 PM

FHR Pine Bend LLC
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Page 1 of 2

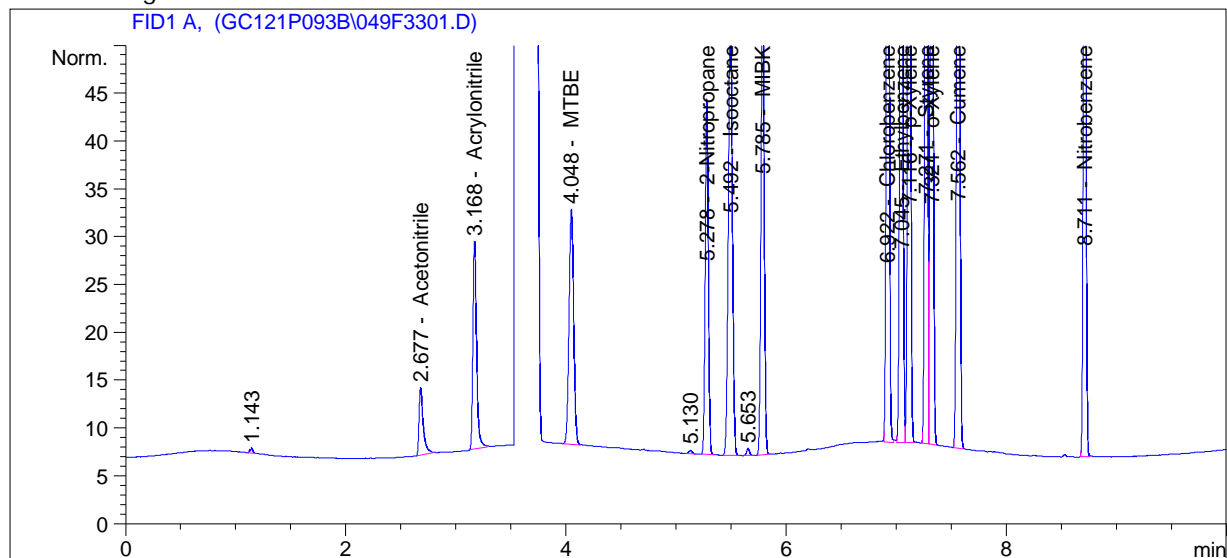
Sample Name: gc121p67 #4

```

=====
Acq. Operator   : SJE                               Seq. Line :   33
Acq. Instrument : Lucy                             Location  : Vial 49
Injection Date  : 8/28/2011 11:10:49 PM             Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.677	BB	18.67237	1.77988	33.23462		Acetonitrile
3.168	BB	49.85718	1.11194	55.43798		Acrylonitrile
4.048	BB	71.86473	9.50173e-1	68.28390		MTBE
5.278	BB	73.83453	1.22103	90.15419		2-Nitropropane
5.492	BB	118.06319	5.54339e-1	65.44706		Isooctane
5.785	BB	99.74153	7.70700e-1	76.87083		MIBK
6.922	BB	169.43265	6.92952e-1	117.40873		Chlorobenzene
7.045	BV	184.09433	4.97084e-1	91.51034		Ethylbenzene
7.116	VB	183.17870	4.93407e-1	90.38157		p-Xylene
7.271	BV	195.52969	4.79203e-1	93.69846		Styrene
7.321	VB	186.89688	4.85089e-1	90.66162		o-Xylene
7.562	BB	178.70930	4.89014e-1	87.39138		Cumene
8.711	BB	146.84975	7.76886e-1	114.08558		Nitrobenzene

Totals : 1074.56626

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:29:54 PM

FHR Pine Bend LLC
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Page 1 of 2

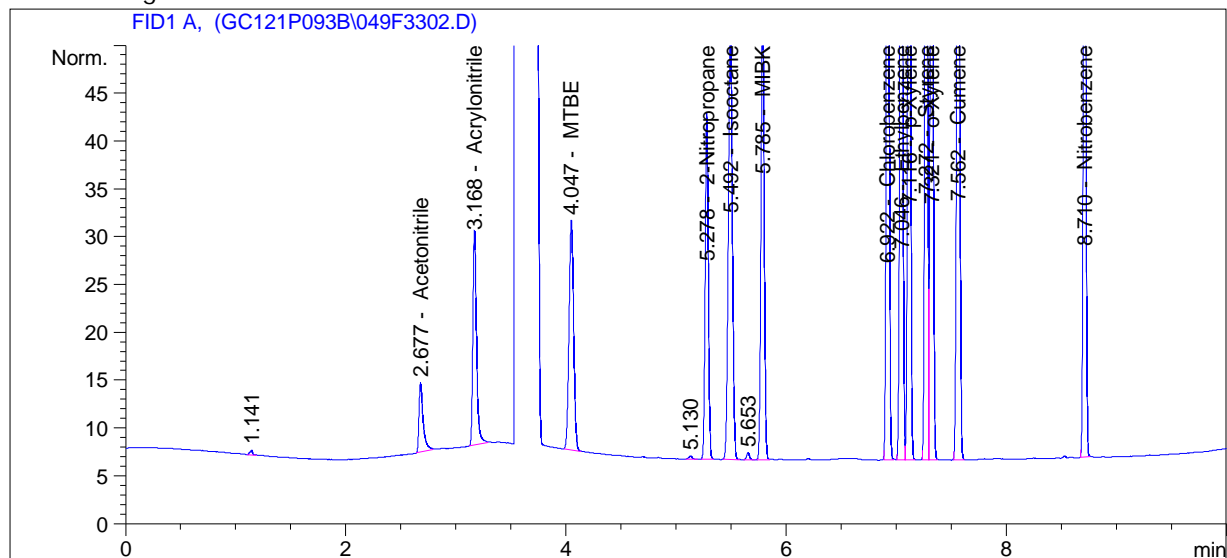
Sample Name: gc121p67 #4

```

=====
Acq. Operator   : SJE                               Seq. Line :   33
Acq. Instrument : Lucy                             Location  : Vial 49
Injection Date  : 8/28/2011 11:28:37 PM             Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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=====
External Standard Report
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```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.677	BB	18.99607	1.77896	33.79317		Acetonitrile
3.168	BB	51.48263	1.11183	57.23970		Acrylonitrile
4.047	BB	69.81786	9.50158e-1	66.33798		MTBE
5.278	BB	72.11546	1.22100	88.05318		2-Nitropropane
5.492	BB	115.70235	5.54320e-1	64.13610		Isooctane
5.785	BB	97.29974	7.70669e-1	74.98587		MIBK
6.922	BB	152.88223	6.92913e-1	105.93403		Chlorobenzene
7.046	BV	167.01204	4.97090e-1	83.02003		Ethylbenzene
7.116	VB	166.83083	4.93407e-1	82.31555		p-Xylene
7.272	BV	179.99306	4.79199e-1	86.25248		Styrene
7.321	VB	172.57886	4.85076e-1	83.71388		o-Xylene
7.562	BB	168.08948	4.89022e-1	82.19943		Cumene
8.710	BB	146.15071	7.76884e-1	113.54216		Nitrobenzene

Totals : 1021.52356

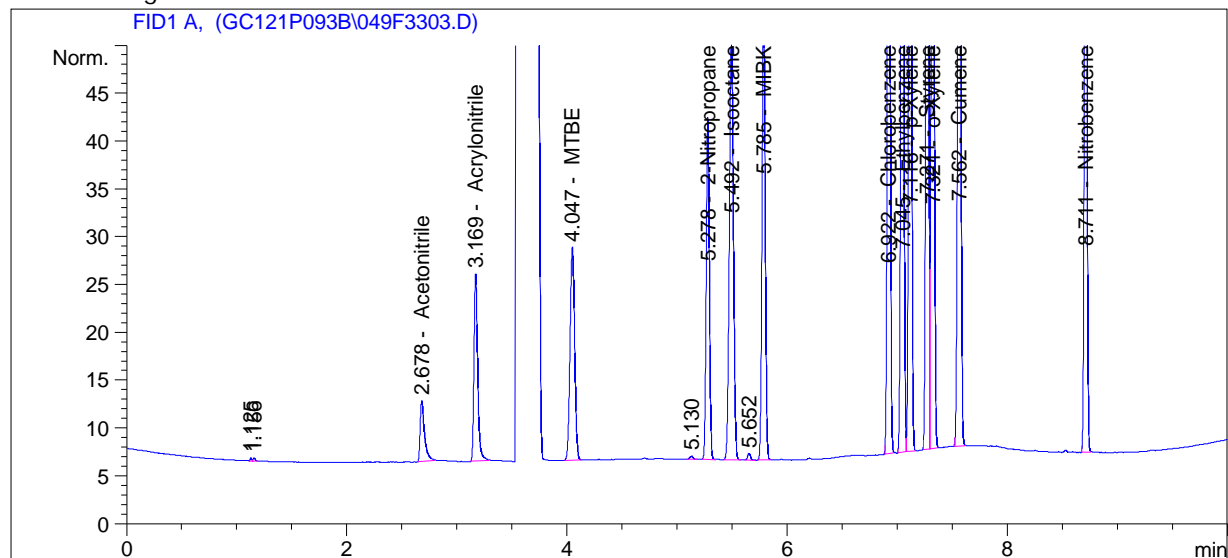
Pace Analytical
FSD 1108-200FHR Pine Bend LLC
Page B-1389 of 1576

Sample Name: gc121p67 #4

=====

Acq. Operator	: SJE	Seq. Line	: 33
Acq. Instrument	: Lucy	Location	: Vial 49
Injection Date	: 8/28/2011 11:46:26 PM	Inj	: 3
		Inj Volume	: External
Sequence File	: G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S		
Acq. Method	: G:\GC2011Q3\LUCY\METHODS\GC121P086.M		
Last changed	: 8/24/2011 1:55:27 PM by KAM		
Analysis Method	: G:\GC2011Q3\LUCY\METHODS\GC121P093.M		
Last changed	: 9/1/2011 10:07:06 PM		

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.678	BB	17.61352	1.78315	31.40758		Acetonitrile
3.169	BB	45.16435	1.11230	50.23624		Acrylonitrile
4.047	BB	65.14757	9.50120e-1	61.89803		MTBE
5.278	BB	71.23647	1.22099	86.97888		2-Nitropropane
5.492	BB	114.40573	5.54309e-1	63.41609		Isooctane
5.785	BB	96.31385	7.70656e-1	74.22481		MIBK
6.922	BB	157.15929	6.92924e-1	108.89939		Chlorobenzene
7.045	BV	172.68439	4.97088e-1	85.83932		Ethylbenzene
7.116	VB	173.60127	4.93407e-1	85.65608		p-Xylene
7.271	BV	189.77168	4.79202e-1	90.93892		Styrene
7.321	VB	182.52820	4.85085e-1	88.54174		o-Xylene
7.562	BB	180.13112	4.89013e-1	88.08649		Cumene
8.711	BB	149.98450	7.76897e-1	116.52248		Nitrobenzene

Totals : 1032.64607

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:30:10 PM

FHR Pine Bend LLC
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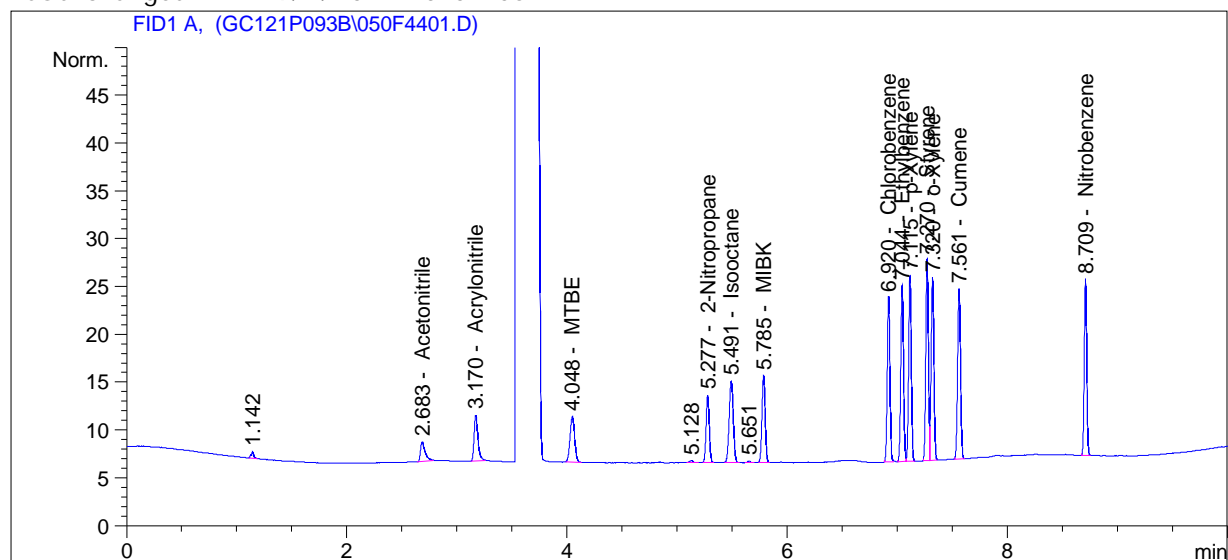
Page 1 of 2

Sample Name: gc121p93 #3

=====

Acq. Operator : SJE Seq. Line : 44
Acq. Instrument : Lucy Location : Vial 50
Injection Date : 8/29/2011 8:59:26 AM Inj : 1
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.683	BB	6.05178	1.89329	11.45778		Acetonitrile
3.170	BB	11.54496	1.12352	12.97103		Acrylonitrile
4.048	BB	13.85897	9.48053e-1	13.13904		MTBE
5.277	BB	14.05888	1.21615	17.09768		2-Nitropropane
5.491	BB	22.34655	5.50242e-1	12.29600		Isooctane
5.785	BB	18.62599	7.65234e-1	14.25324		MIBK
6.920	BB	29.20383	6.91194e-1	20.18552		Chlorobenzene
7.045	BV	31.90413	4.97369e-1	15.86812		Ethylbenzene
7.115	VB	31.97005	4.93443e-1	15.77539		p-Xylene
7.270	BV	34.65925	4.78971e-1	16.60079		Styrene
7.320	VB	33.38038	4.84373e-1	16.16856		o-Xylene
7.561	BB	32.92477	4.89555e-1	16.11849		Cumene
8.709	BB	28.95386	7.74863e-1	22.43528		Nitrobenzene

Totals : 204.36693

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:35:03 PM

FHR Pine Bend LLC
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Page 1 of 2

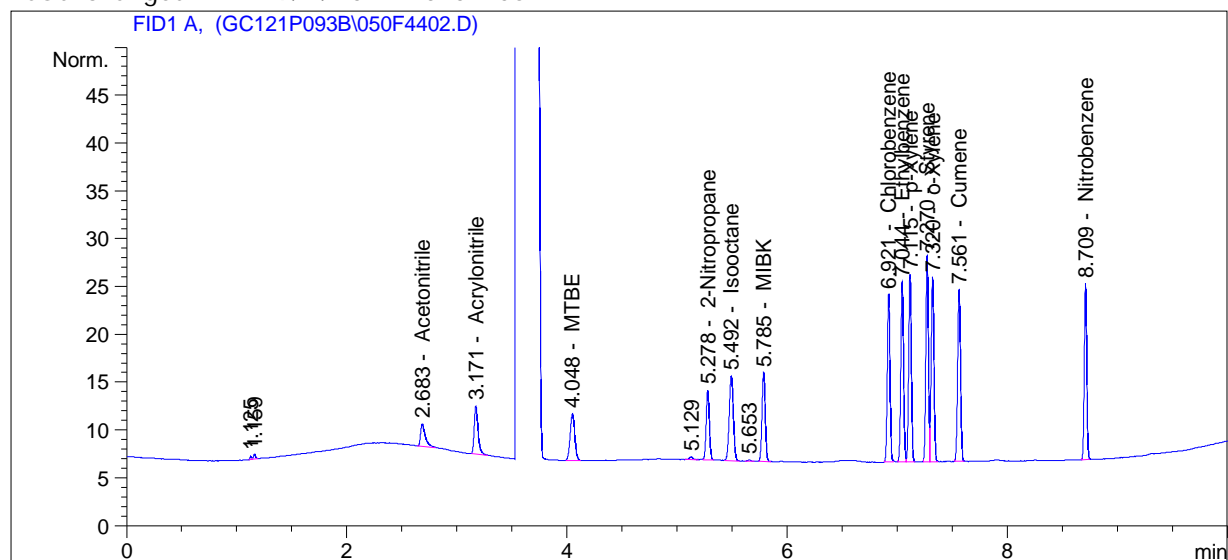
Sample Name: gc121p93 #3

```

=====
Acq. Operator   : SJE                      Seq. Line :   44
Acq. Instrument : Lucy                    Location  : Vial 50
Injection Date  : 8/29/2011 9:17:12 AM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report

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Sorted By      :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.683	BB	7.09718	1.86858	13.26162		Acetonitrile
3.171	BB	12.28555	1.12261	13.79194		Acrylonitrile
4.048	BB	14.17135	9.48111e-1	13.43601		MTBE
5.278	BB	14.55130	1.21635	17.69950		2-Nitropropane
5.492	BB	23.08054	5.50402e-1	12.70358		Isooctane
5.785	BB	19.07143	7.65391e-1	14.59710		MIBK
6.921	BB	29.91036	6.91244e-1	20.67537		Chlorobenzene
7.045	BV	32.58746	4.97362e-1	16.20775		Ethylbenzene
7.115	VB	32.59962	4.93442e-1	16.08602		p-Xylene
7.270	BV	35.22409	4.78976e-1	16.87149		Styrene
7.320	VB	33.87465	4.84386e-1	16.40840		o-Xylene
7.561	BB	33.06900	4.89552e-1	16.18900		Cumene
8.709	BB	28.75438	7.74846e-1	22.28021		Nitrobenzene

Totals : 210.20798

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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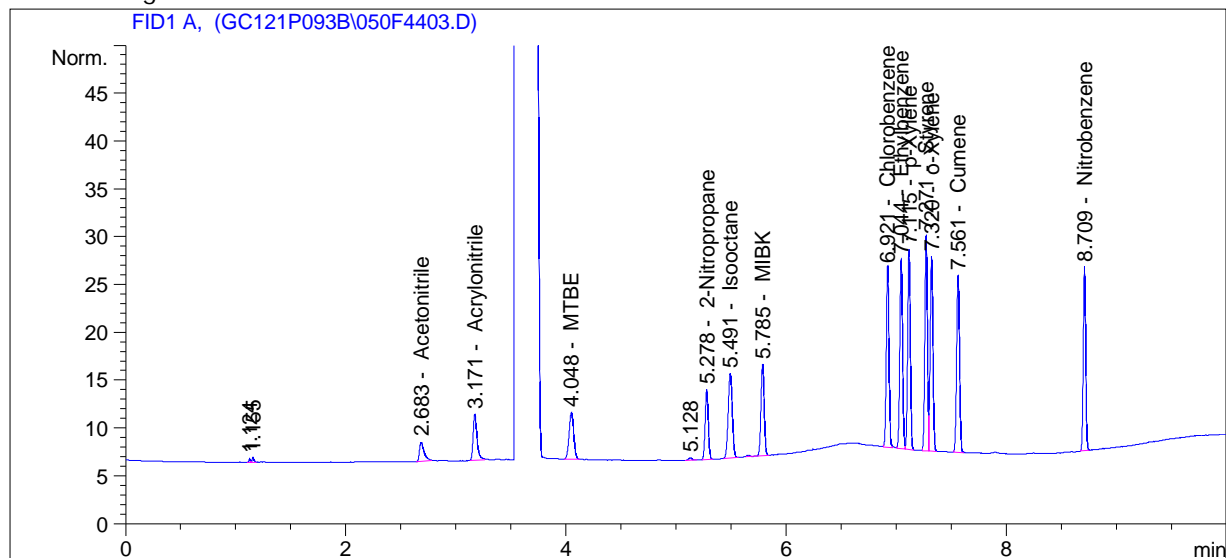
Sample Name: gc121p93 #3

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=====
Acq. Operator   : SJE                      Seq. Line :   44
Acq. Instrument : Lucy                    Location  : Vial 50
Injection Date  : 8/29/2011 9:34:59 AM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.683	BB	5.98982	1.89503	11.35086		Acetonitrile
3.171	BB	11.60579	1.12344	13.03847		Acrylonitrile
4.048	BB	14.19505	9.48115e-1	13.45854		MTBE
5.278	BB	14.41949	1.21630	17.53840		2-Nitropropane
5.491	BB	23.07107	5.50400e-1	12.69832		Isooctane
5.785	BB	19.77795	7.65625e-1	15.14250		MIBK
6.921	BB	32.15507	6.91389e-1	22.23167		Chlorobenzene
7.044	BV	34.56609	4.97342e-1	17.19118		Ethylbenzene
7.115	VB	34.38604	4.93440e-1	16.96744		p-Xylene
7.271	BV	36.82710	4.78988e-1	17.63974		Styrene
7.320	VB	35.38895	4.84423e-1	17.14321		o-Xylene
7.561	BB	34.27843	4.89529e-1	16.78029		Cumene
8.709	BB	29.78382	7.74933e-1	23.08048		Nitrobenzene

Totals : 214.26108

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:35:19 PM

FHR Pine Bend LLC
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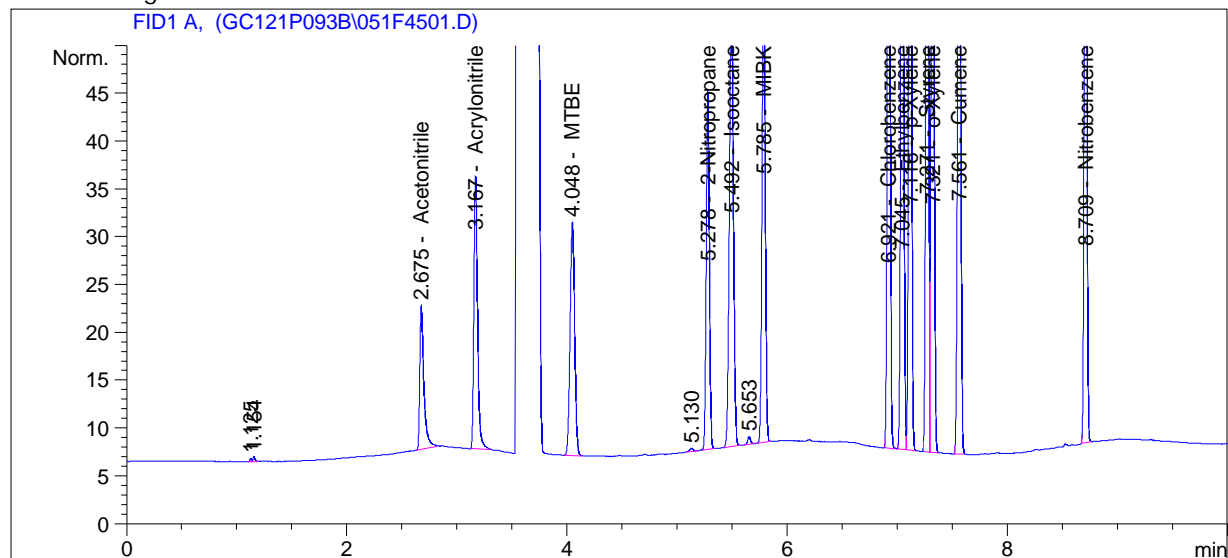
Page 1 of 2

Sample Name: gc121p93 #4

=====

Acq. Operator : SJE Seq. Line : 45
Acq. Instrument : Lucy Location : Vial 51
Injection Date : 8/29/2011 9:52:49 AM Inj : 1
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.675	BB	39.01597	1.75153	68.33753		Acetoni trile
3.167	BB	65.59231	1.11110	72.87949		Acryl oni tri le
4.048	BB	70.76678	9.50165e-1	67.24010		MTBE
5.278	BB	74.12276	1.22103	90.50645		2-Ni tropropane
5.492	BB	119.15083	5.54348e-1	66.05102		I sooctane
5.785	BB	101.60218	7.70723e-1	78.30717		MI BK
6.921	BB	155.07306	6.92918e-1	107.45297		Chl orobenzene
7.045	BV	168.21680	4.97090e-1	83.61882		Ethyl benzene
7.116	VB	167.59134	4.93407e-1	82.69079		p-Xyl ene
7.271	BV	179.57588	4.79199e-1	86.05255		Styrene
7.321	VB	171.84074	4.85075e-1	83.35571		o-Xyl ene
7.561	BB	166.56938	4.89023e-1	81.45627		Cumene
8.709	BB	153.15102	7.76907e-1	118.98408		Ni trobenzene

Totals : 1086.93294

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:35:27 PM

FHR Pine Bend LLC
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Page 1 of 2

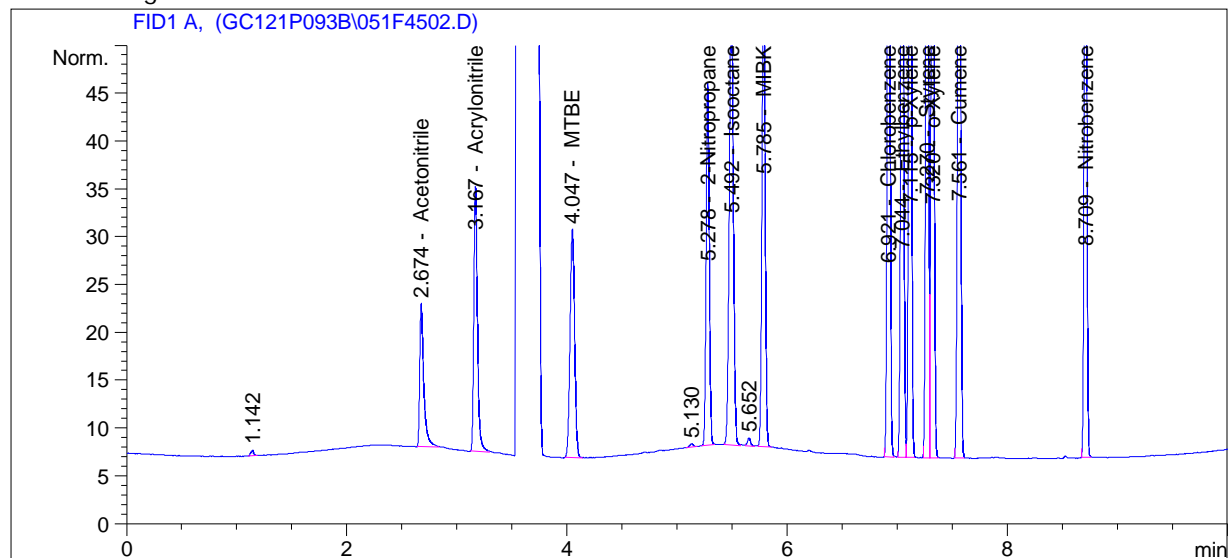
Sample Name: gc121p93 #4

```

=====
Acq. Operator   : SJE                      Seq. Line :   45
Acq. Instrument : Lucy                    Location  : Vial 51
Injection Date  : 8/29/2011 10:10:38 AM   Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.674	BB	38.11021	1.75215	66.77465		Acetonitrile
3.167	BB	62.71449	1.11122	69.68958		Acrylonitrile
4.047	BB	69.26038	9.50154e-1	65.80800		MTBE
5.278	BB	75.86311	1.22106	92.63347		2-Nitropropane
5.492	BB	121.36493	5.54365e-1	67.28050		Isooctane
5.785	BB	100.23523	7.70707e-1	77.25195		MIBK
6.921	BB	148.54774	6.92901e-1	102.92885		Chlorobenzene
7.044	BV	162.24161	4.97092e-1	80.64901		Ethylbenzene
7.115	VB	162.09982	4.93408e-1	79.98128		p-Xylene
7.270	BV	174.79742	4.79197e-1	83.76246		Styrene
7.320	VB	167.84900	4.85071e-1	81.41874		o-Xylene
7.561	BB	163.69504	4.89025e-1	80.05102		Cumene
8.709	BB	142.37231	7.76871e-1	110.60490		Nitrobenzene

Totals : 1058.83440

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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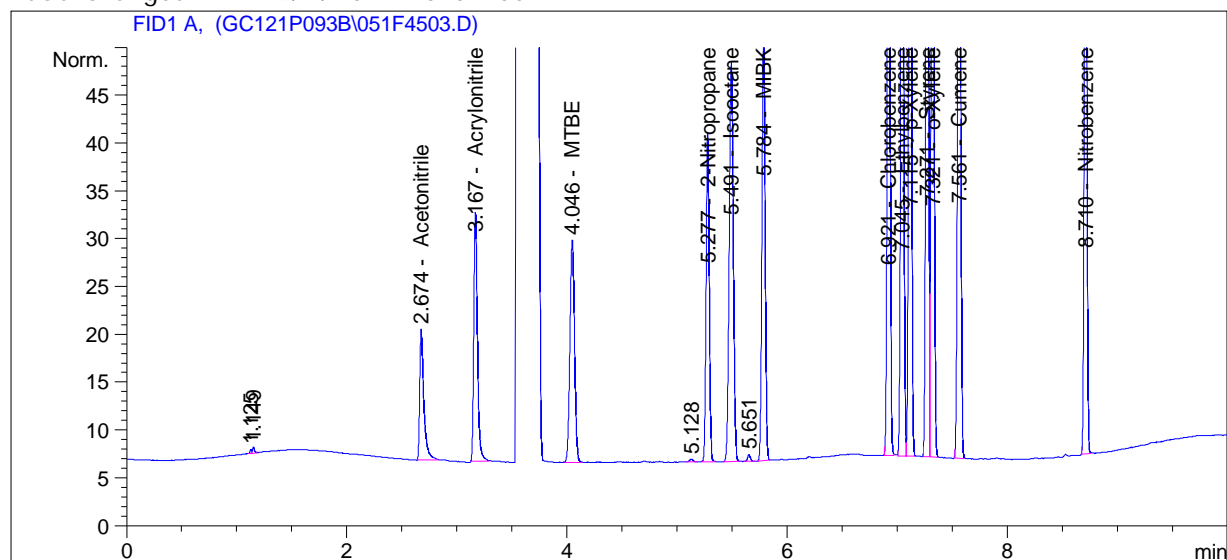
Sample Name: gc121p93 #4

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=====
Acq. Operator   : SJE                               Seq. Line :   45
Acq. Instrument : Lucy                             Location  : Vial 51
Injection Date  : 8/29/2011 10:28:28 AM             Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.674	BB	35.50775	1.75410	62.28410		Acetonitrile
3.167	BB	59.59285	1.11137	66.22942		Acrylonitrile
4.046	BB	67.76101	9.50142e-1	64.38258		MTBE
5.277	BB	68.41136	1.22094	83.52610		2-Nitropropane
5.491	BB	108.46095	5.54255e-1	60.11497		Isooctane
5.784	BB	91.19349	7.70583e-1	70.27212		MIBK
6.921	BB	146.46823	6.92895e-1	101.48708		Chlorobenzene
7.045	BV	159.50717	4.97093e-1	79.28992		Ethylbenzene
7.115	VB	159.12418	4.93408e-1	78.51310		p-Xylene
7.271	BV	170.92746	4.79196e-1	81.90776		Styrene
7.321	VB	163.69763	4.85067e-1	79.40431		o-Xylene
7.561	BB	158.84906	4.89029e-1	77.68186		Cumene
8.710	BB	141.21597	7.76867e-1	109.70598		Nitrobenzene

Totals : 1014.79932

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:35:44 PM

FHR Pine Bend LLC
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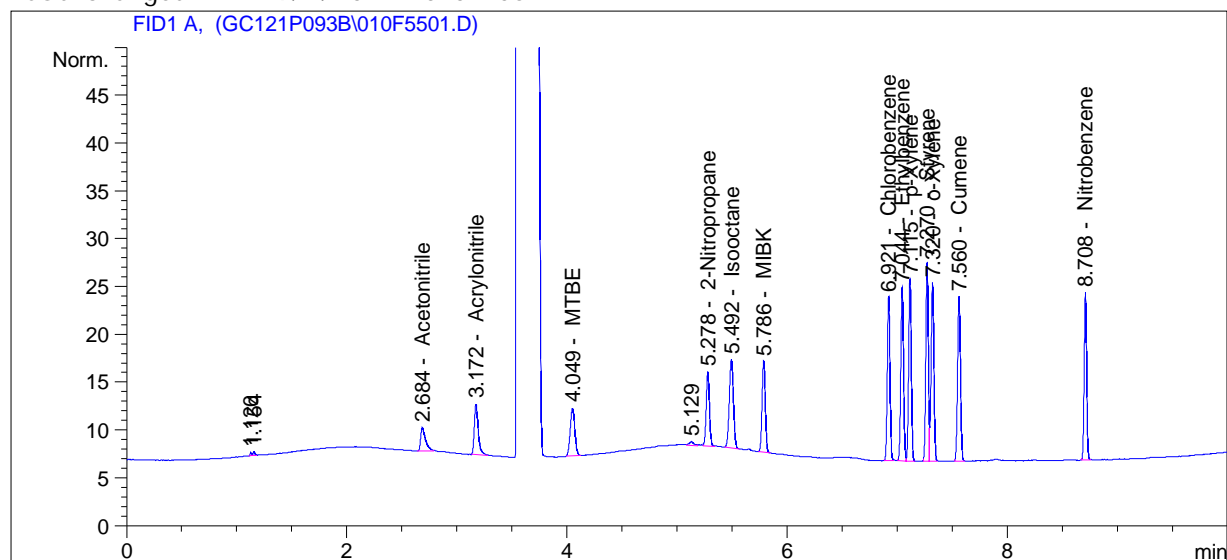
Page 1 of 2

Sample Name: gc121p93 #3

=====

Acq. Operator	: SJE	Seq. Line	: 55
Acq. Instrument	: Lucy	Location	: Vial 10
Injection Date	: 8/29/2011 6:52:56 PM	Inj	: 1
		Inj Volume	: External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.684	BB	7.59385	1.85922	14.11862		Acetonitrile
3.172	BB	12.98432	1.12185	14.56649		Acrylonitrile
4.049	BB	14.52835	9.48174e-1	13.77540		MTBE
5.278	BB	15.69643	1.21678	19.09905		2-Nitropropane
5.492	BB	24.04309	5.50598e-1	13.23808		Isooctane
5.786	BB	19.40755	7.65505e-1	14.85657		MIBK
6.921	BB	28.99356	6.91179e-1	20.03973		Chlorobenzene
7.045	BV	31.40334	4.97374e-1	15.61922		Ethylbenzene
7.115	VB	31.39772	4.93444e-1	15.49300		p-Xylene
7.270	BV	33.83873	4.78965e-1	16.20756		Styrene
7.320	VB	32.56308	4.84351e-1	15.77197		o-Xylene
7.560	BB	31.58422	4.89583e-1	15.46311		Cumene
8.708	BB	27.22568	7.74703e-1	21.09182		Nitrobenzene

Totals : 209.34062

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:40:05 PM

FHR Pine Bend LLC
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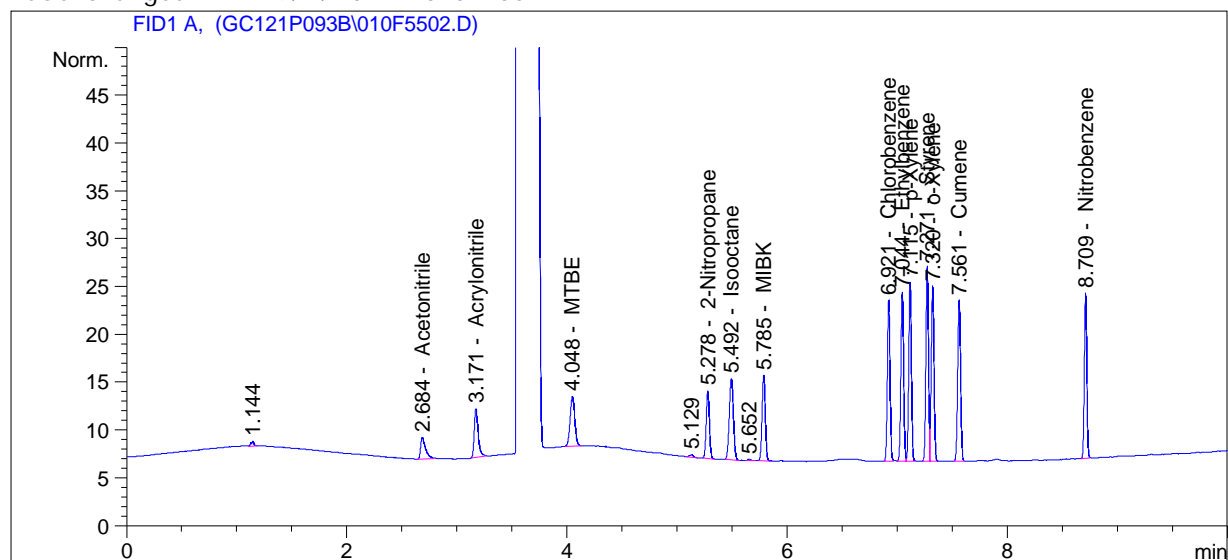
Page 1 of 2

Sample Name: gc121p93 #3

=====

Acq. Operator : SJE Seq. Line : 55
Acq. Instrument : Lucy Location : Vial 10
Injection Date : 8/29/2011 7:10:54 PM Inj : 2
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.684	BB	7.02564	1.87003	13.13817		Acetonitrile
3.171	BB	12.47506	1.12240	14.00200		Acrylonitrile
4.048	BB	15.53070	9.48335e-1	14.72832		MTBE
5.278	BB	14.18549	1.21620	17.25241		2-Nitropropane
5.492	BB	22.11111	5.50188e-1	12.16526		Isooctane
5.785	BB	18.30266	7.65115e-1	14.00364		MIBK
6.921	BB	28.41316	6.91135e-1	19.63733		Chlorobenzene
7.044	BV	30.85832	4.97381e-1	15.34833		Ethylbenzene
7.115	VB	30.81893	4.93444e-1	15.20743		p-Xylene
7.271	BV	33.20269	4.78959e-1	15.90273		Styrene
7.320	VB	31.90036	4.84333e-1	15.45039		o-Xylene
7.561	BB	30.94929	4.89598e-1	15.15270		Cumene
8.709	BB	26.90518	7.74671e-1	20.84267		Nitrobenzene

Totals : 202.83138

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:40:13 PM

FHR Pine Bend LLC
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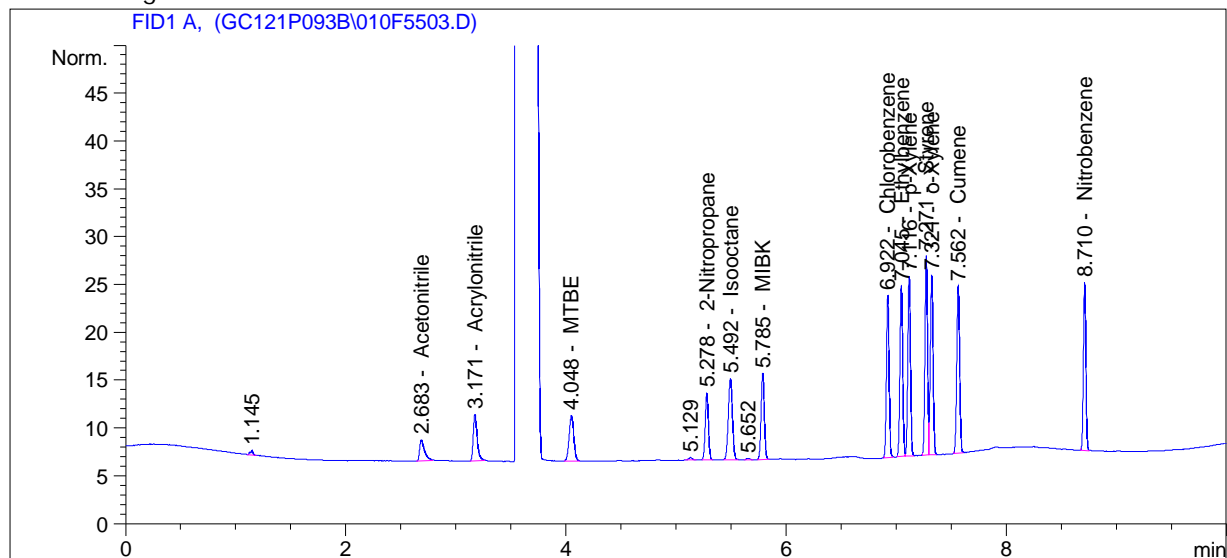
Sample Name: gc121p93 #3

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=====
Acq. Operator   : SJE                      Seq. Line :   55
Acq. Instrument : Lucy                    Location  : Vial 10
Injection Date  : 8/29/2011 7:29:02 PM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.683	BB	6.77594	1.87536	12.70732		Acetonitrile
3.171	BB	12.08371	1.12285	13.56821		Acrylonitrile
4.048	BB	13.91239	9.48063e-1	13.18982		MTBE
5.278	BB	13.90459	1.21608	16.90911		2-Nitropropane
5.492	BB	22.05408	5.50175e-1	12.13359		Isooctane
5.785	BB	18.27331	7.65104e-1	13.98098		MIBK
6.922	BB	28.46557	6.91139e-1	19.67367		Chlorobenzene
7.045	BV	31.10363	4.97378e-1	15.47026		Ethylbenzene
7.116	VB	31.19794	4.93444e-1	15.39443		p-Xylene
7.271	BV	33.94759	4.78966e-1	16.25972		Styrene
7.321	VB	32.65736	4.84354e-1	15.81772		o-Xylene
7.562	BB	31.91152	4.89576e-1	15.62312		Cumene
8.710	BB	27.63684	7.74743e-1	21.41145		Nitrobenzene

Totals : 202.13939

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:40:21 PM

FHR Pine Bend LLC
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Page 1 of 2

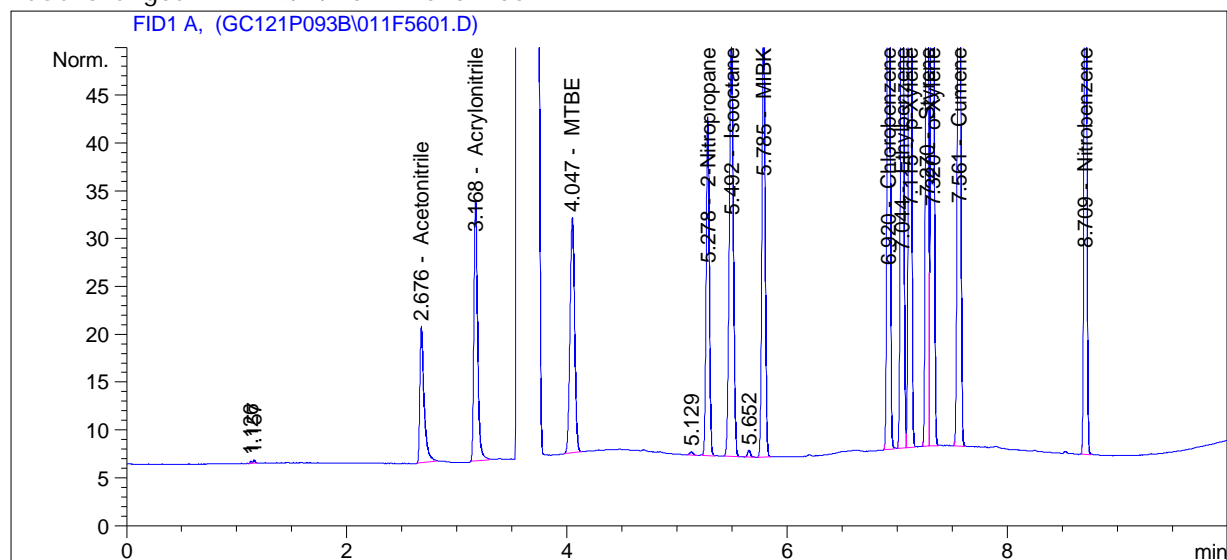
Sample Name: gc121p93 #4

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=====
Acq. Operator   : SJE                               Seq. Line :   56
Acq. Instrument : Lucy                             Location  : Vial 11
Injection Date  : 8/29/2011 7:46:57 PM              Inj       :    1
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report

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Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.676	BB	38.05186	1.75219	66.67397		Acetonitrile
3.168	BB	62.94152	1.11121	69.94124		Acrylonitrile
4.047	BB	72.14730	9.50175e-1	68.55253		MTBE
5.278	BB	70.79784	1.22098	86.44281		2-Nitropropane
5.492	BB	111.48289	5.54283e-1	61.79305		Isooctane
5.785	BB	93.09470	7.70611e-1	71.73977		MIBK
6.920	BB	151.96536	6.92910e-1	105.29835		Chlorobenzene
7.044	BV	166.42906	4.97090e-1	82.73027		Ethylbenzene
7.115	VB	166.76620	4.93407e-1	82.28367		p-Xylene
7.270	BV	181.44519	4.79199e-1	86.94842		Styrene
7.320	VB	173.93460	4.85077e-1	84.37175		o-Xylene
7.561	BB	169.37325	4.89021e-1	82.82705		Cumene
8.709	BB	140.05179	7.76862e-1	108.80096		Nitrobenzene

Totals : 1058.40383

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:40:29 PM

FHR Pine Bend LLC
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Page 1 of 2

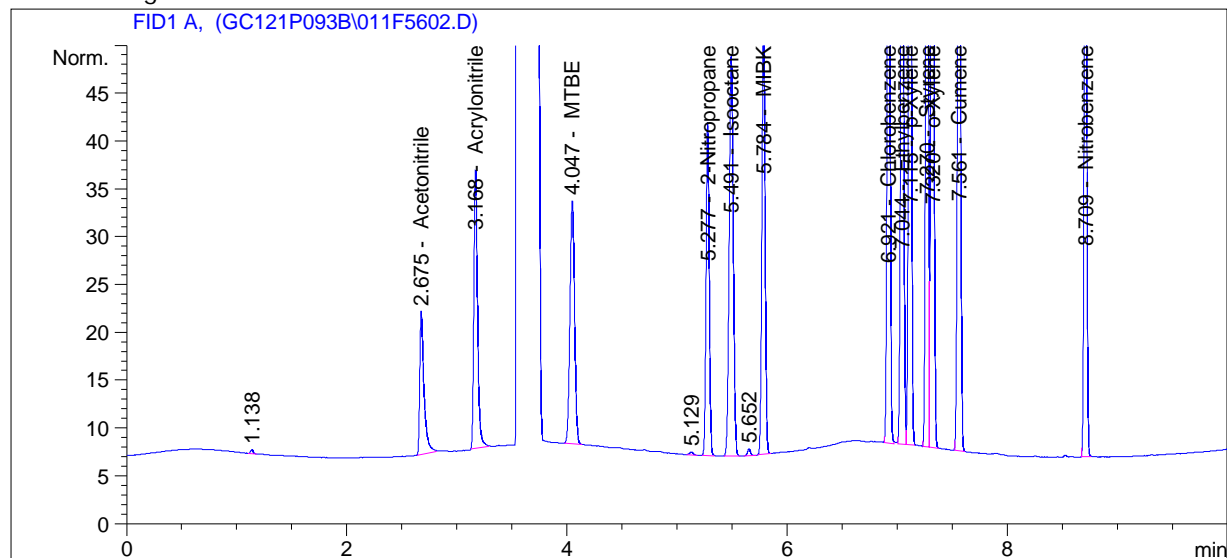
Sample Name: gc121p93 #4

```

=====
Acq. Operator   : SJE                               Seq. Line :   56
Acq. Instrument : Lucy                             Location  : Vial 11
Injection Date  : 8/29/2011 8:04:51 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.675	BB	40.19371	1.75076	70.36973		Acetonitrile
3.168	BB	67.34346	1.11103	74.82054		Acrylonitrile
4.047	BB	74.44408	9.50190e-1	70.73603		MTBE
5.277	BB	69.45237	1.22096	84.79840		2-Nitropropane
5.491	BB	109.43504	5.54264e-1	60.65588		Isooctane
5.784	BB	92.13502	7.70597e-1	70.99894		MIBK
6.921	BB	152.29524	6.92911e-1	105.52706		Chlorobenzene
7.044	BV	164.43558	4.97091e-1	81.73946		Ethylbenzene
7.115	VB	163.40324	4.93407e-1	80.62438		p-Xylene
7.270	BV	174.26314	4.79197e-1	83.50640		Styrene
7.320	VB	166.42680	4.85070e-1	80.72863		o-Xylene
7.561	BB	159.05988	4.89029e-1	77.78493		Cumene
8.709	BB	132.42236	7.76832e-1	102.86997		Nitrobenzene

Totals : 1045.16035

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:40:38 PM

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Page 1 of 2

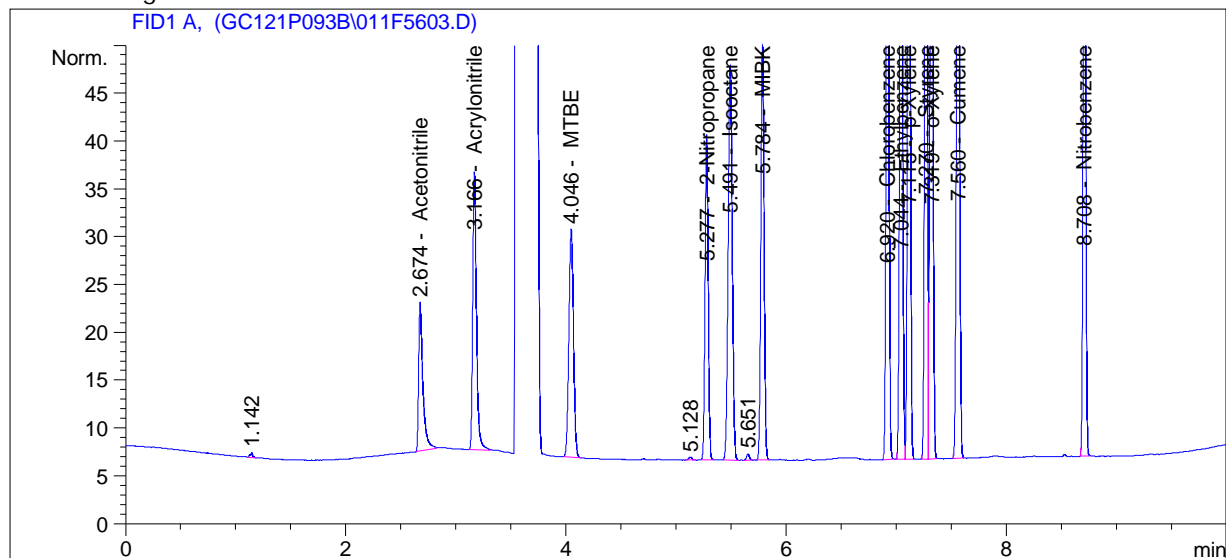
Sample Name: gc121p93 #4

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=====
Acq. Operator   : SJE                               Seq. Line :   56
Acq. Instrument : Lucy                             Location  : Vial 11
Injection Date  : 8/29/2011 8:22:53 PM              Inj       :    3
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086B.M
Last changed    : 8/12/2011 1:12:26 PM by KMT
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.674	BB	41.50087	1.74997	72.62523		Acetonitrile
3.166	BB	67.91527	1.11101	75.45436		Acrylonitrile
4.046	BB	69.43481	9.50155e-1	65.97382		MTBE
5.277	BB	67.88337	1.22093	82.88080		2-Nitropropane
5.491	BB	107.17171	5.54242e-1	59.39906		Isooctane
5.784	BB	89.43391	7.70556e-1	68.91380		MIBK
6.920	BB	139.04337	6.92872e-1	96.33929		Chlorobenzene
7.044	BV	151.63387	4.97097e-1	75.37670		Ethylbenzene
7.115	VB	151.44827	4.93408e-1	74.72581		p-Xylene
7.270	BV	163.64369	4.79194e-1	78.41700		Styrene
7.319	VB	156.99622	4.85059e-1	76.15248		o-Xylene
7.560	BB	153.33876	4.89034e-1	74.98792		Cumene
8.708	BB	133.26538	7.76836e-1	103.52532		Nitrobenzene

Totals : 1004.77161

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:40:46 PM

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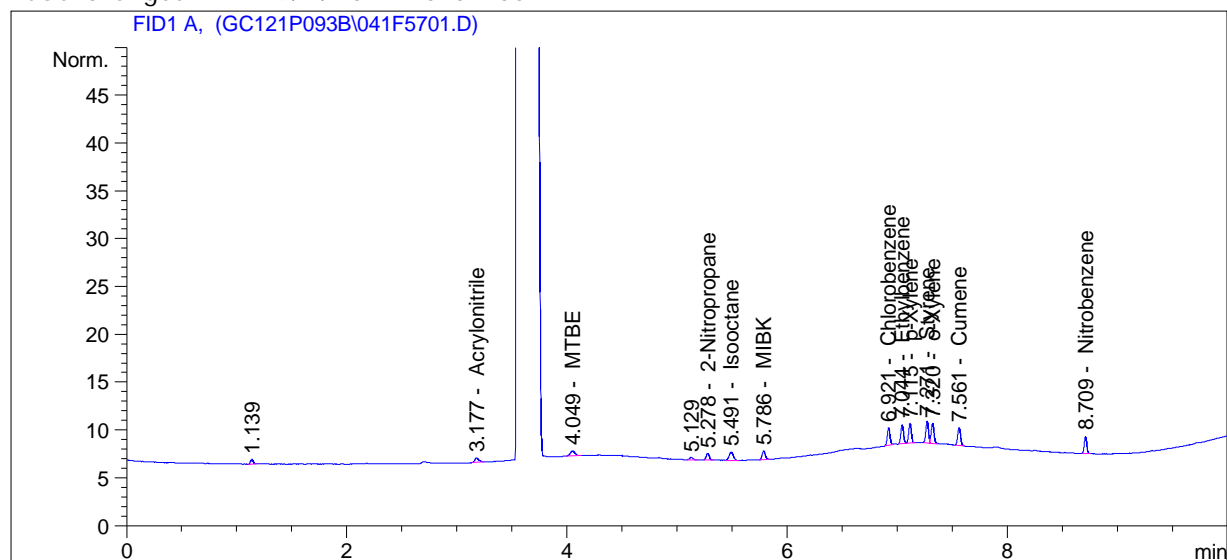
Page 1 of 2

Sample Name: gc121p93 #1

=====

Acq. Operator	: SJE	Seq. Line	: 57
Acq. Instrument	: Lucy	Location	: Vial 41
Injection Date	: 8/29/2011 8:40:52 PM	Inj	: 1
		Inj Volume	: External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetoni trile
3.177	BB	1.23671	1.24679	1.54192	-	Acryl oni tri le
4.049	BB	1.52755	9.27784e-1	1.41724	-	MTBE
5.278	BB	1.40150	1.17085	1.64094	-	2-Ni tropropane
5.491	BB	2.24235	5.12917e-1	1.15014	-	I sooctane
5.786	BB	1.79763	7.15641e-1	1.28646	-	MI BK
6.921	BB	3.14468	6.74389e-1	2.12074	-	Chl orobenzene
7.044	BV	3.39920	5.00203e-1	1.70029	-	Ethyl benzene
7.115	VB	3.49682	4.93801e-1	1.72673	-	p-Xyl ene
7.271	BV	3.81316	4.76693e-1	1.81771	-	Styrene
7.320	VB	3.71696	4.77417e-1	1.77454	-	o-Xyl ene
7.561	BB	3.44324	4.95135e-1	1.70487	-	Cumene
8.709	BB	2.83026	7.54456e-1	2.13530	-	Ni trobenzene

Totals : 20.01687

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FSD 1108-200

Instrument 1 9/1/2011 10:40:55 PM

FHR Pine Bend LLC
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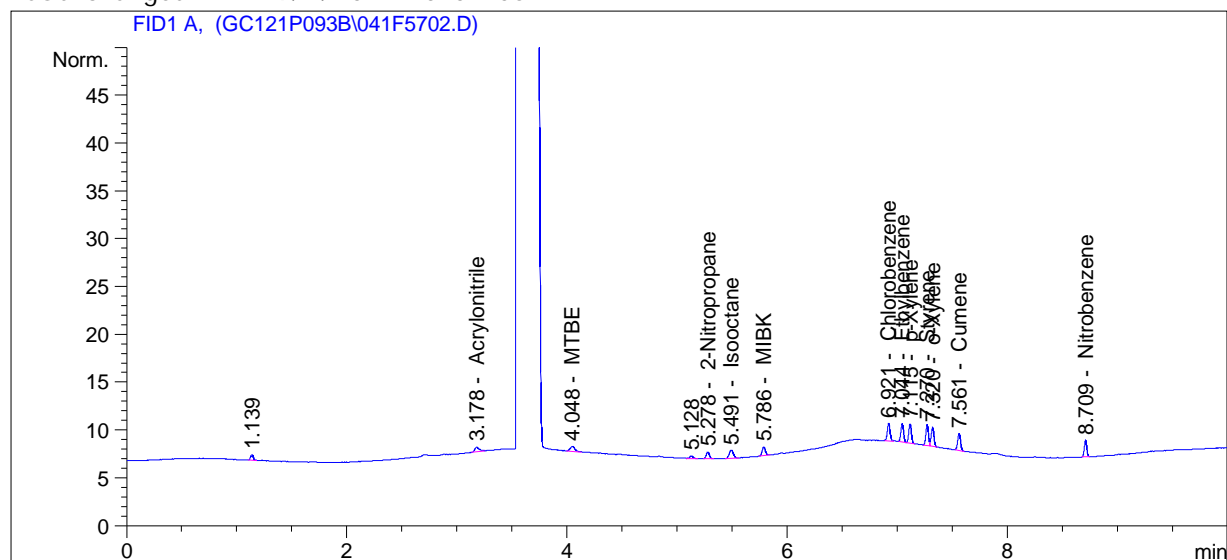
Sample Name: gc121p93 #1

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=====
Acq. Operator   : SJE                               Seq. Line :   57
Acq. Instrument : Lucy                             Location  : Vial 41
Injection Date  : 8/29/2011 8:58:42 PM              Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

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Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689	-	-	-	-	-	Acetonitrile
3.178	BB	1.32130	1.24021	1.63868	-	Acrylonitrile
4.048	BB	1.51021	9.27784e-1	1.40115	-	MTBE
5.278	BB	1.41263	1.17085	1.65398	-	2-Nitropropane
5.491	BB	2.15575	5.12917e-1	1.10572	-	Isooctane
5.786	BB	1.82620	7.15641e-1	1.30690	-	MIBK
6.921	BB	3.22325	6.74389e-1	2.17373	-	Chlorobenzene
7.044	BV	3.29090	5.00203e-1	1.64612	-	Ethylbenzene
7.115	VB	3.31430	4.93803e-1	1.63661	-	p-Xylene
7.270	BV	3.60561	4.76679e-1	1.71872	-	Styrene
7.320	VB	3.49792	4.77331e-1	1.66967	-	o-Xylene
7.561	BB	3.25765	4.95135e-1	1.61298	-	Cumene
8.709	BB	2.71857	7.54456e-1	2.05104	-	Nitrobenzene

Totals : 19.61529

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FSD 1108-200FHR Pine Bend LLC
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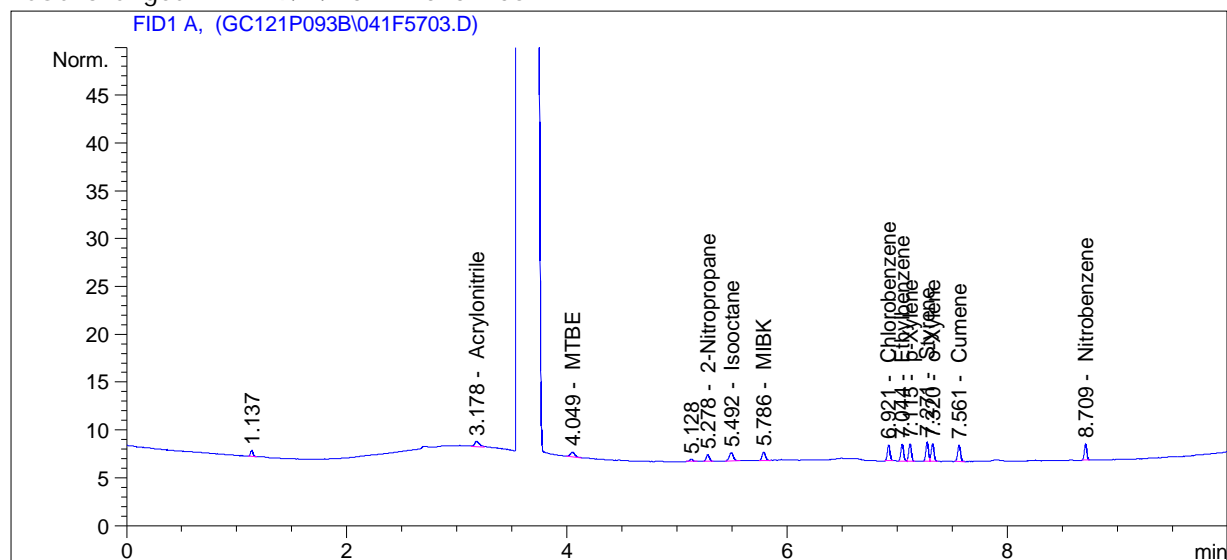
Sample Name: gc121p93 #1

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=====
Acq. Operator   : SJE                      Seq. Line :   57
Acq. Instrument : Lucy                    Location  : Vial 41
Injection Date  : 8/29/2011 9:16:32 PM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.689		-	-	-		Acetoni trile
3.178	BB	1.53481	1.22188	1.87535		Acryl oni tri le
4.049	BB	1.40191	9.27784e-1	1.30067		MTBE
5.278	BB	1.36094	1.17085	1.59346		2-Ni tropropane
5.492	BB	2.15192	5.12917e-1	1.10376		I sooctane
5.786	BB	1.85681	7.15641e-1	1.32881		MI BK
6.921	BB	2.82568	6.74389e-1	1.90561		Chl orobenzene
7.044	BB	3.03578	5.00203e-1	1.51851		Ethyl benzene
7.115	BB	2.98137	4.93803e-1	1.47221		p-Xyl ene
7.271	BV	3.31906	4.76679e-1	1.58213		Styrene
7.320	VB	3.23881	4.77331e-1	1.54598		o-Xyl ene
7.561	BB	3.12004	4.95135e-1	1.54484		Cumene
8.709	BB	2.65478	7.54456e-1	2.00291		Ni trobenzene

Totals : 18.77424

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:41:12 PM

FHR Pine Bend LLC
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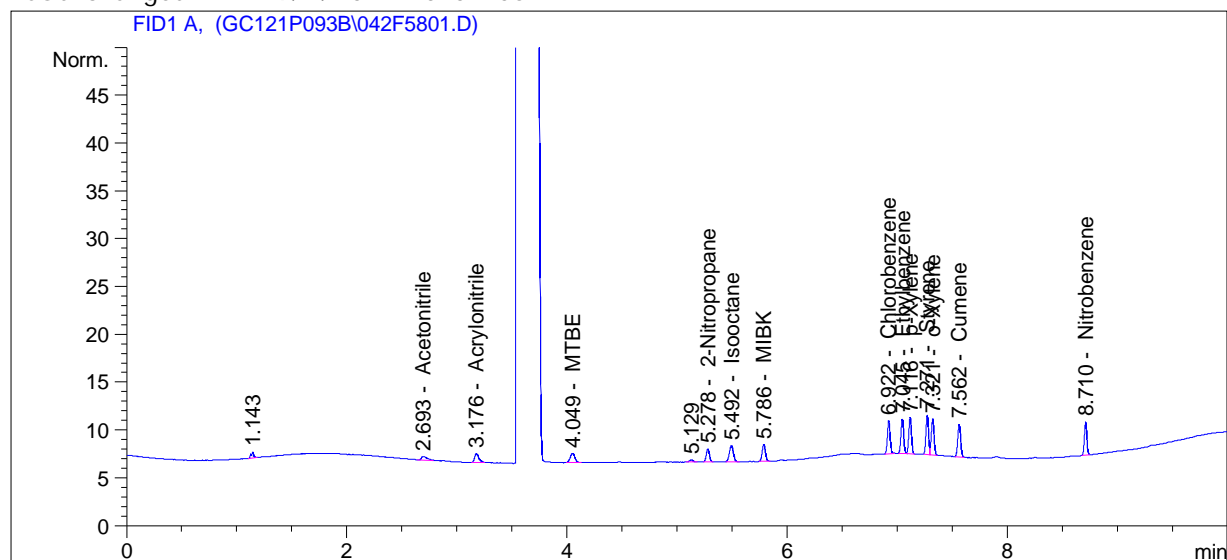
Page 1 of 2

Sample Name: gc121p93 #2

=====

Acq. Operator : SJE Seq. Line : 58
Acq. Instrument : Lucy Location : Vial 42
Injection Date : 8/29/2011 9:34:45 PM Inj : 1
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.693	BB	1.37541	2.46377	3.38870		Acetonitrile
3.176	BB	2.47500	1.17879	2.91749		Acrylonitrile
4.049	BB	2.79974	9.37678e-1	2.62526		MTBE
5.278	BB	2.74953	1.19134	3.27563		2-Nitropropane
5.492	BB	4.36343	5.29411e-1	2.31005		Isooctane
5.786	BB	3.63095	7.37475e-1	2.67773		MIBK
6.922	BB	5.89540	6.82796e-1	4.02536		Chlorobenzene
7.045	BV	6.29200	4.98772e-1	3.13827		Ethylbenzene
7.116	VB	6.33915	4.93620e-1	3.12913		p-Xylene
7.271	BV	6.80617	4.77819e-1	3.25212		Styrene
7.321	VB	6.58662	4.80827e-1	3.16703		o-Xylene
7.562	BB	6.29801	4.92360e-1	3.10089		Cumene
8.710	BB	5.40240	7.63877e-1	4.12677		Nitrobenzene

Totals : 41.13442

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:41:20 PM

FHR Pine Bend LLC
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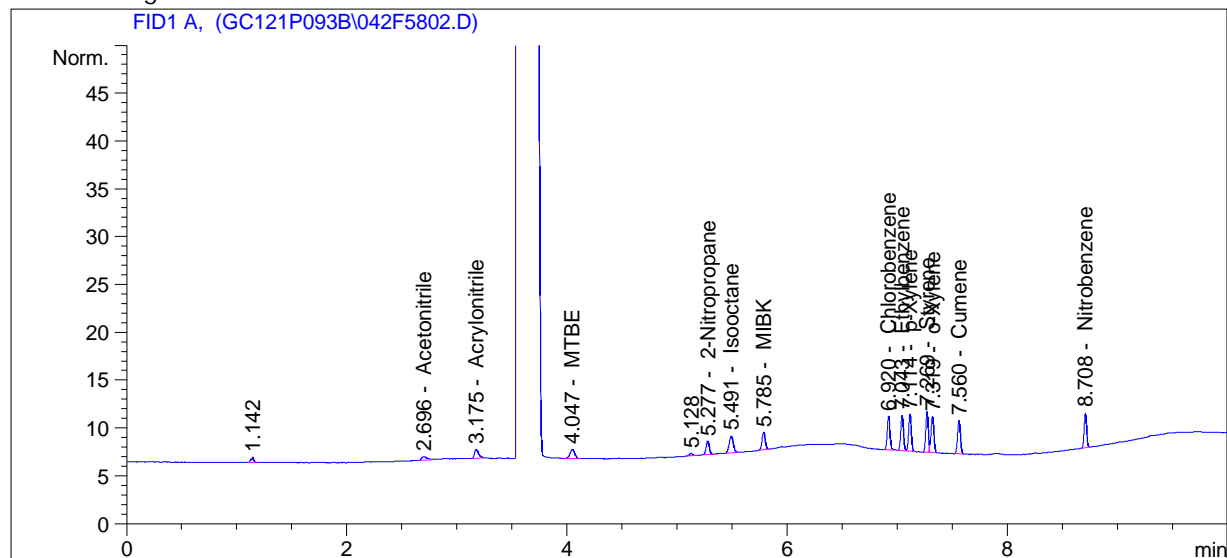
Sample Name: gc121p93 #2

```

=====
Acq. Operator   : SJE                      Seq. Line :   58
Acq. Instrument : Lucy                    Location  : Vial 42
Injection Date  : 8/29/2011 9:52:34 PM    Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.696	BB	1.33988	2.48335	3.32738		Acetonitrile
3.175	BB	2.41086	1.18066	2.84640		Acrylonitrile
4.047	BB	2.73083	9.37350e-1	2.55974		MTBE
5.277	BB	2.88177	1.19276	3.43725		2-Nitropropane
5.491	BB	4.54643	5.30453e-1	2.41167		Isooctane
5.785	BB	3.66067	7.37755e-1	2.70068		MIBK
6.920	BB	5.92958	6.82857e-1	4.04905		Chlorobenzene
7.043	BV	6.34948	4.98756e-1	3.16684		Ethylbenzene
7.114	VB	6.39997	4.93618e-1	3.15914		p-Xylene
7.269	BV	6.88002	4.77834e-1	3.28751		Styrene
7.319	VB	6.68311	4.80891e-1	3.21385		o-Xylene
7.560	BB	6.38285	4.92313e-1	3.14236		Cumene
8.708	BB	5.64930	7.64467e-1	4.31870		Nitrobenzene

Totals : 41.62058

Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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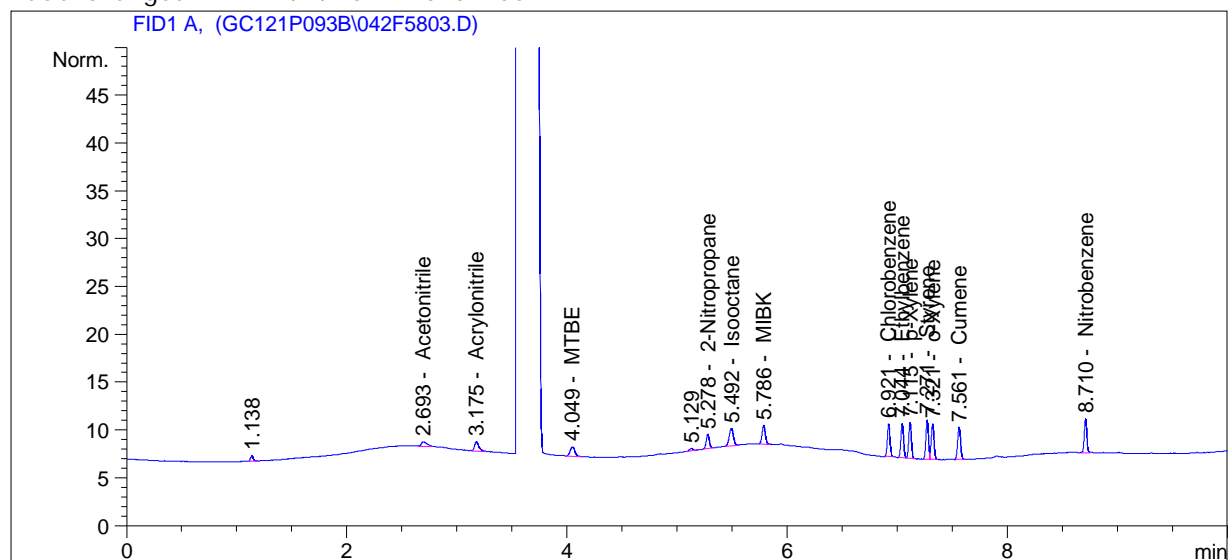
Sample Name: gc121p93 #2

```

=====
Acq. Operator   : SJE                      Seq. Line :   58
Acq. Instrument : Lucy                    Location  : Vial 42
Injection Date  : 8/29/2011 10:10:26 PM   Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.693	BB	1.73493	2.31078	4.00905		Acetonitrile
3.175	BB	2.56532	1.17631	3.01761		Acrylonitrile
4.049	BB	2.87685	9.38027e-1	2.69856		MTBE
5.278	BB	2.96515	1.19358	3.53915		2-Nitropropane
5.492	BB	4.81139	5.31821e-1	2.55880		Isooctane
5.786	BB	4.06659	7.41169e-1	3.01403		MIBK
6.921	BB	5.70247	6.82440e-1	3.89159		Chlorobenzene
7.044	BV	6.11598	4.98822e-1	3.05079		Ethylbenzene
7.115	VB	6.18734	4.93626e-1	3.05423		p-Xylene
7.271	BV	6.68410	4.77792e-1	3.19361		Styrene
7.321	VB	6.48232	4.80756e-1	3.11642		o-Xylene
7.561	BB	6.20390	4.92412e-1	3.05487		Cumene
8.710	BB	5.63094	7.64425e-1	4.30443		Nitrobenzene

Totals : 42.50316

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:41:37 PM

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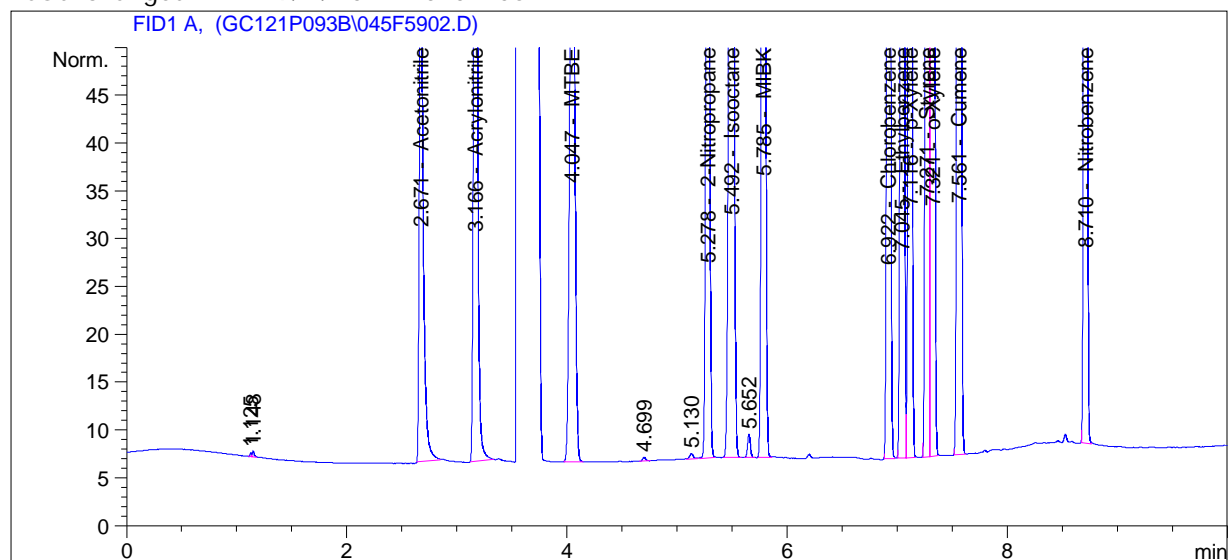
Sample Name: gc121p93 #5

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=====
Acq. Operator   : SJE                               Seq. Line :   59
Acq. Instrument : Lucy                             Location  : Vial 45
Injection Date  : 8/29/2011 10:32:47 PM             Inj       :    2
                                                    Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.671	BB	141.55286	1.73267	245.26508		Acetonitrile
3.166	BB	225.28409	1.10922	249.88886		Acrylonitrile
4.047	BB	238.77335	9.50527e-1	226.96043		MTBE
5.278	BB	241.67459	1.22183	295.28468		2-Nitropropane
5.492	BB	381.01785	5.54999e-1	211.46470		Isooctane
5.785	BB	318.79913	7.71563e-1	245.97356		MIBK
6.922	BB	490.96356	6.93192e-1	340.33203		Chlorobenzene
7.045	BV	538.04352	4.97045e-1	267.43166		Ethylbenzene
7.116	VB	538.63165	4.93402e-1	265.76167		p-Xylene
7.271	BV	585.65961	4.79237e-1	280.66946		Styrene
7.321	VB	561.87738	4.85193e-1	272.61892		o-Xylene
7.561	BB	555.34729	4.88931e-1	271.52665		Cumene
8.710	BB	509.25464	7.77240e-1	395.81310		Nitrobenzene

Totals : 3568.99081

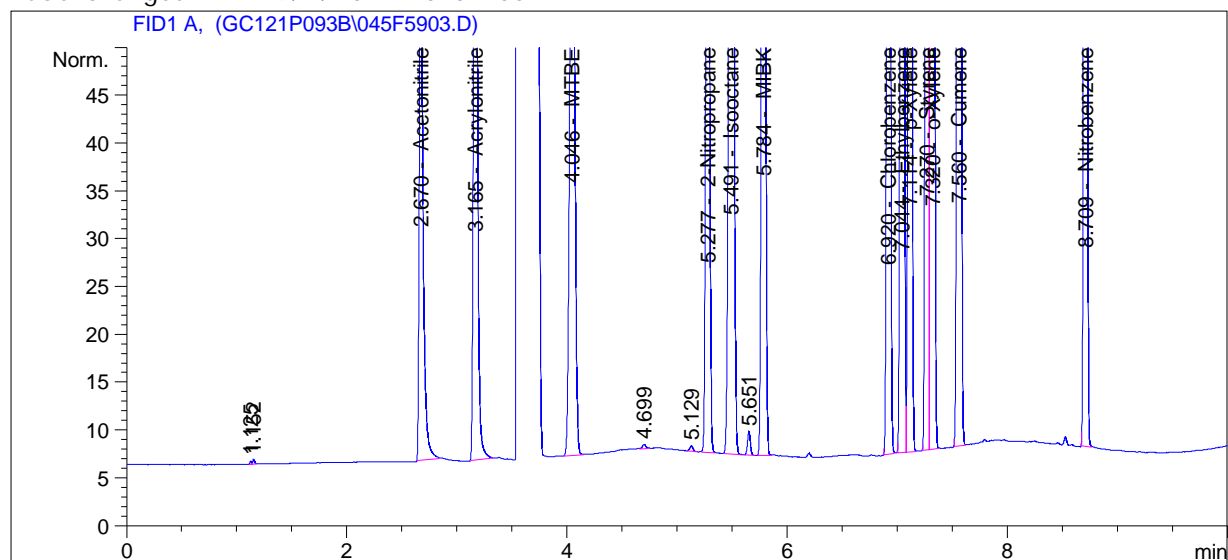
Pace Analytical
FSD 1108-200FHR Pine Bend LLC
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Sample Name: gc121p93 #5

=====

Acq. Operator	: SJE	Seq. Line	: 59
Acq. Instrument	: Lucy	Location	: Vial 45
Injection Date	: 8/29/2011 10:50:35 PM	Inj	: 3
		Inj Volume	: External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.670	BB	137.26871	1.73290	237.87277		Acetonitrile
3.165	BB	220.03777	1.10924	244.07360		Acrylonitrile
4.046	BB	243.58096	9.50530e-1	231.53093		MTBE
5.277	BB	247.92566	1.22184	302.92460		2-Nitropropane
5.491	BB	388.59967	5.55005e-1	215.67486		Isooctane
5.784	BB	323.25888	7.71568e-1	249.41629		MIBK
6.920	BB	508.29211	6.93196e-1	352.34623		Chlorobenzene
7.044	BV	558.91156	4.97044e-1	277.80358		Ethylbenzene
7.114	VB	560.61713	4.93401e-1	276.60928		p-Xylene
7.270	BV	611.65997	4.79237e-1	293.13022		Styrene
7.320	VB	587.30591	4.85195e-1	284.95798		o-Xylene
7.560	BB	582.94818	4.88929e-1	285.02051		Cumene
8.709	BB	503.94891	7.77239e-1	391.68852		Nitrobenzene

Totals : 3643.04937

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:41:59 PM

FHR Pine Bend LLC
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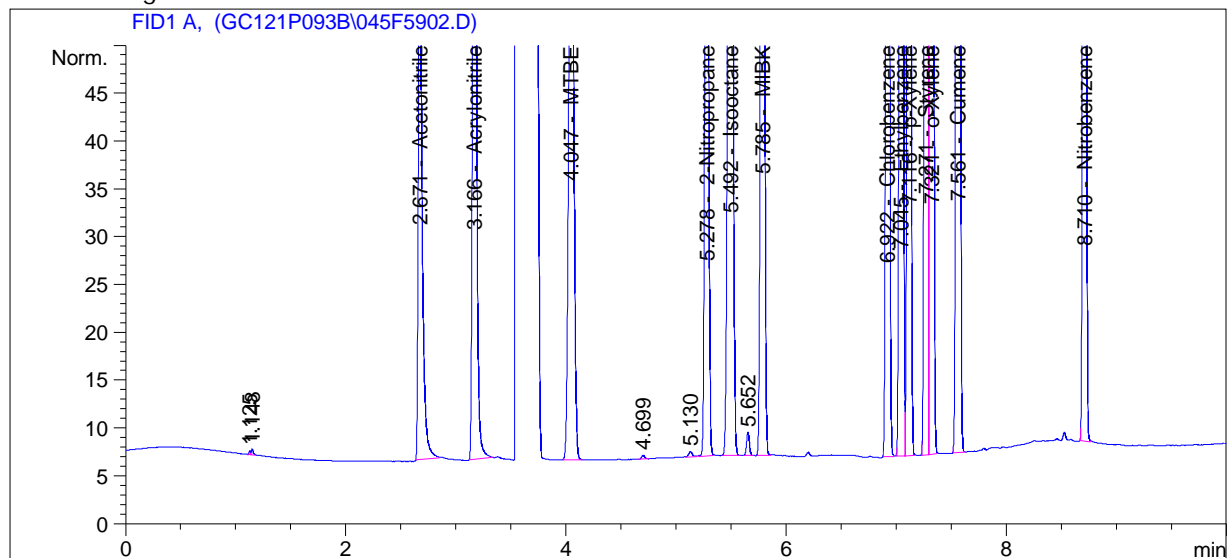
Page 1 of 2

Sample Name: gc121p93 #5

=====

Acq. Operator	: SJE	Seq. Line	: 59
Acq. Instrument	: Lucy	Location	: Vial 45
Injection Date	: 8/29/2011 10:32:47 PM	Inj	: 2
		Inj Volume	: External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.671	BB	141.55286	1.73267	245.26508		Acetoni trile
3.166	BB	225.28409	1.10922	249.88886		Acryl oni trile
4.047	BB	238.77335	9.50527e-1	226.96043		MTBE
5.278	BB	241.67459	1.22183	295.28468		2-Ni tropropane
5.492	BB	381.01785	5.54999e-1	211.46470		I sooctane
5.785	BB	318.79913	7.71563e-1	245.97356		MI BK
6.922	BB	490.96356	6.93192e-1	340.33203		Chl orobenzene
7.045	BV	538.04352	4.97045e-1	267.43166		Ethyl benzene
7.116	VB	538.63165	4.93402e-1	265.76167		p-Xyl ene
7.271	BV	585.65961	4.79237e-1	280.66946		Styrene
7.321	VB	561.87738	4.85193e-1	272.61892		o-Xyl ene
7.561	BB	555.34729	4.88931e-1	271.52665		Cumene
8.710	BB	509.25464	7.77240e-1	395.81310		Ni trobenzene

Total s : 3568.99081

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:41:51 PM

FHR Pine Bend LLC
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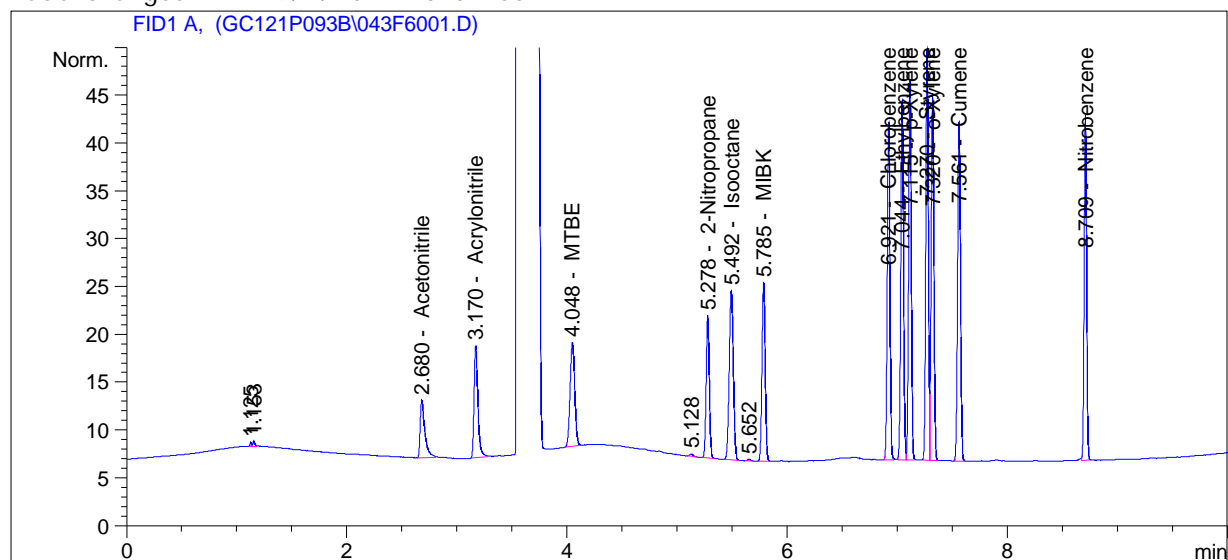
Page 1 of 2

Sample Name: gc121p93 #3-SS

=====

Acq. Operator : SJE Seq. Line : 60
Acq. Instrument : Lucy Location : Vial 43
Injection Date : 8/29/2011 11:08:27 PM Inj : 1
Inj Volume : External

Sequence File : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed : 9/1/2011 10:07:06 PM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.680	BB	17.57054	1.78329	31.33342		Acetonitrile
3.170	BB	27.78016	1.11471	30.96685		Acrylonitrile
4.048	BB	32.04258	9.49543e-1	30.42581		MTBE
5.278	BB	29.60302	1.21931	36.09539		2-Nitropropane
5.492	BB	46.05106	5.52843e-1	25.45902		Isooctane
5.785	BB	38.08663	7.68668e-1	29.27599		MIBK
6.921	BB	59.82575	6.92281e-1	41.41626		Chlorobenzene
7.044	BV	65.62844	4.97192e-1	32.62992		Ethylbenzene
7.115	VB	65.37733	4.93420e-1	32.25851		p-Xylene
7.270	BV	69.99332	4.79114e-1	33.53476		Styrene
7.320	VB	66.67078	4.84808e-1	32.32255		o-Xylene
7.561	BB	65.06323	4.89228e-1	31.83073		Cumene
8.709	BB	56.43473	7.76090e-1	43.79846		Nitrobenzene

Totals : 431.34765

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:42:07 PM

FHR Pine Bend LLC
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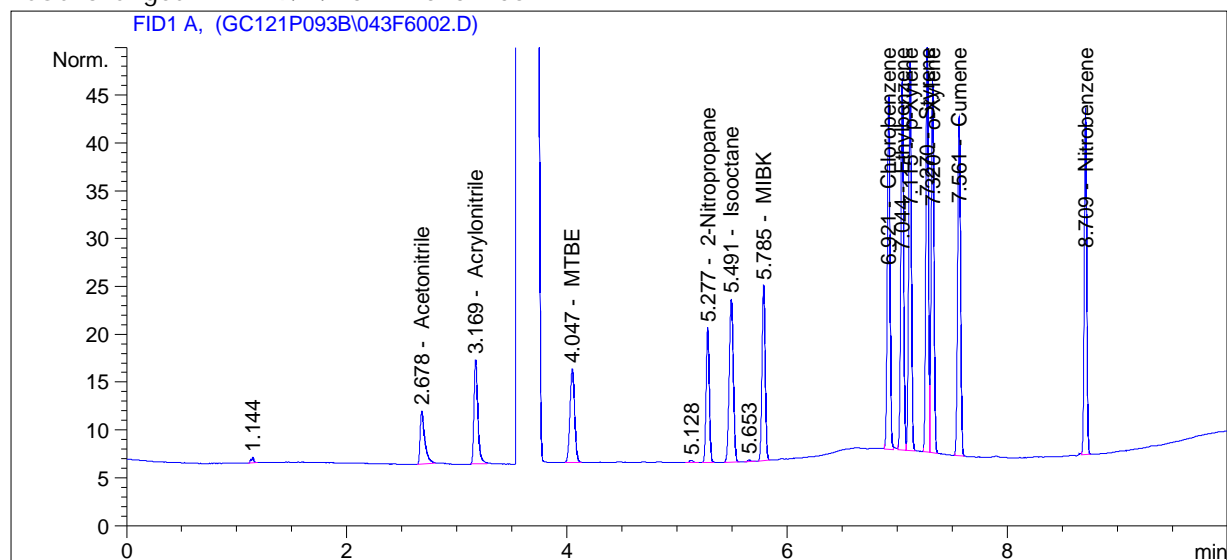
Sample Name: gc121p93 #3-SS

```

=====
Acq. Operator   : SJE                      Seq. Line :   60
Acq. Instrument : Lucy                    Location  : Vial 43
Injection Date  : 8/29/2011 11:26:34 PM   Inj       :    2
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



=====

External Standard Report

=====

```

Sorted By      :      Signal
Calib. Data Modified : 9/1/2011 10:06:38 PM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.678	BB	16.21724	1.78812	28.99829		Acetonitrile
3.169	BB	26.01782	1.11514	29.01339		Acrylonitrile
4.047	BB	28.77649	9.49414e-1	27.32081		MTBE
5.277	BB	28.19219	1.21917	34.37110		2-Nitropropane
5.491	BB	44.43200	5.52754e-1	24.55996		Isooctane
5.785	BB	37.28623	7.68598e-1	28.65811		MIBK
6.921	BB	62.44193	6.92325e-1	43.23010		Chlorobenzene
7.044	BV	68.00560	4.97186e-1	33.81143		Ethylbenzene
7.115	VB	67.43062	4.93420e-1	33.27160		p-Xylene
7.270	BV	71.29062	4.79116e-1	34.15649		Styrene
7.320	VB	67.71637	4.84815e-1	32.82991		o-Xylene
7.561	BB	65.27233	4.89227e-1	31.93296		Cumene
8.709	BB	56.65778	7.76095e-1	43.97185		Nitrobenzene

Totals : 426.12600

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:42:16 PM

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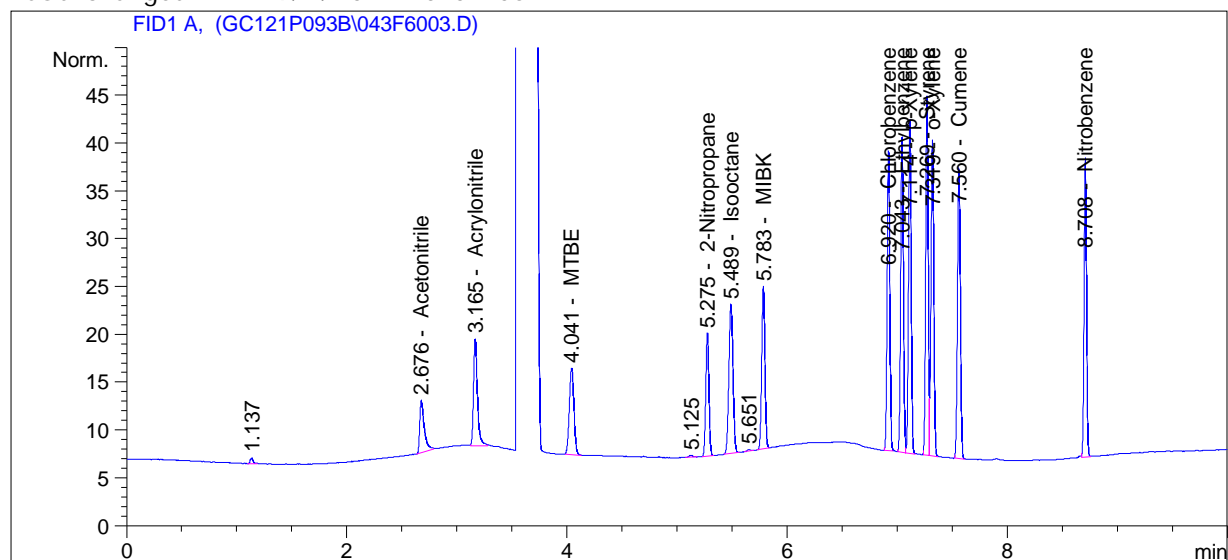
Sample Name: gc121p93 #3-SS

```

=====
Acq. Operator   : SJE                      Seq. Line :   60
Acq. Instrument : Lucy                    Location  : Vial  43
Injection Date  : 8/29/2011 11:44:32 PM    Inj       :    3
                                           Inj Volume: External

Sequence File   : G:\GC2011Q3\LUCY\SEQUENCE\GC121P093.S
Acq. Method     : G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Last changed    : 8/24/2011 1:55:27 PM by KAM
Analysis Method : G:\GC2011Q3\LUCY\METHODS\GC121P093.M
Last changed    : 9/1/2011 10:07:06 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 10:06:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.676	BB	15.67846	1.79027	28.06863		Acetonitrile
3.165	BB	27.17447	1.11485	30.29548		Acrylonitrile
4.041	BB	26.45981	9.49303e-1	25.11839		MTBE
5.275	BB	25.53329	1.21886	31.12144		2-Nitropropane
5.489	BB	40.68129	5.52520e-1	22.47720		Isooctane
5.783	BB	34.51826	7.68329e-1	26.52137		MIBK
6.920	BB	52.87369	6.92145e-1	36.59627		Chlorobenzene
7.043	BV	57.60128	4.97215e-1	28.64023		Ethylbenzene
7.114	VB	57.32877	4.93423e-1	28.28736		p-Xylene
7.269	BV	60.88670	4.79093e-1	29.17038		Styrene
7.319	VB	57.81674	4.84741e-1	28.02617		o-Xylene
7.560	BB	55.90279	4.89283e-1	27.35226		Cumene
8.708	BB	48.69576	7.75885e-1	37.78230		Nitrobenzene

Totals : 379.45748

Pace Analytical
FSD 1108-200

Instrument 1 9/1/2011 10:42:24 PM

FHR Pine Bend LLC
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Page 1 of 2

Method Information

Method: G:\GC2011Q3\LUCY\METHODS\GC121P086.M
Modified: 8/24/2011 at 1:55:27 PM

Run Time Checklist

Pre-Run Cmd/Macro: off
Data Acquisition: on
Standard Data Analysis: on
Customized Data Analysis: off
Save GLP Data: off
Post-Run Cmd/Macro: on
Name: POSTRUN_CopyDataToNetwork
Save Method with Data: off

Injection Source and Location

Injection Source: CTC Injector
Injection Location: Front

=====

6890 GC METHOD

=====

OVEN

Initial temp: 40 'C (On) Maximum temp: 300 'C
Initial time: 2.00 min Equilibration time: 1.00 min
Ramps:
Rate Final temp Final time
1 25.00 240 1.00
2 0.0(Off)
Post temp: 50 'C
Post time: 0.00 min
Run time: 11.00 min

FRONT INLET (SPLIT/SPLITLESS)

Mode: Split
Initial temp: 225 'C (On)
Pressure: 6.45 psi (On)
Split ratio: 10:1
Split flow: 26.3 mL/min
Total flow: 37.6 mL/min
Gas saver: Off
Gas type: Hydrogen

BACK INLET (SPLIT/SPLITLESS)

Mode: Split
Initial temp: 225 'C (On)
Pressure: 0.97 psi (Off)
Total flow: 50.0 mL/min
Gas saver: Off
Gas type: Hydrogen

COLUMN 1

Capillary Column
Model Number: Agilent 10198
FSD 1108-200

COLUMN 2

(not installed)

Modified on: 8/24/2011 at 1:55:27 PM

Rtx-1 30m x 0.32mm x 4.0um
 Max temperature: 300 'C
 Nominal length: 30.0 m
 Nominal diameter: 320.00 um
 Nominal film thickness: 4.00 um
 Mode: constant flow
 Initial flow: 2.6 mL/min
 Nominal init pressure: 6.45 psi
 Average velocity: 49 cm/sec
 Inlet: Front Inlet
 Outlet: Front Detector
 Outlet pressure: ambient

FRONT DETECTOR (FID)

Temperature: 300 'C (On)
 Hydrogen flow: 40.0 mL/min (On)
 Air flow: 450.0 mL/min (On)
 Mode: Constant makeup flow
 Makeup flow: 45.0 mL/min (On)
 Makeup Gas Type: Nitrogen
 Flame: On
 Electrometer: On
 Lit offset: 2.0

BACK DETECTOR (FID)

Temperature: 300 'C (Off)
 Hydrogen flow: 40.0 mL/min (Off)
 Air flow: 450.0 mL/min (Off)
 Mode: Constant makeup flow
 Makeup flow: 45.0 mL/min (Off)
 Makeup Gas Type: Nitrogen
 Flame: Off
 Electrometer: Off
 Lit offset: 2.0

SIGNAL 1

Data rate: 20 Hz
 Type: front detector
 Save Data: On
 Zero: 0.0 (Off)
 Range: 0
 Fast Peaks: Off
 Attenuation: 0

SIGNAL 2

Data rate: 20 Hz
 Type: back detector
 Save Data: Off
 Zero: 0.0 (Off)
 Range: 0
 Fast Peaks: Off
 Attenuation: 0

COLUMN COMP 1

Derive from back detector

COLUMN COMP 2

Derive from front detector

POST RUN

Post Time: 0.00 min

TIME TABLE

Time	Specifier	Parameter & Setpoint
------	-----------	----------------------

=====

CTCPAL METHOD

=====

Injection Volume: 1.00 ul
 Syringe Size: 10ul
 Cycle File: solvent_plug

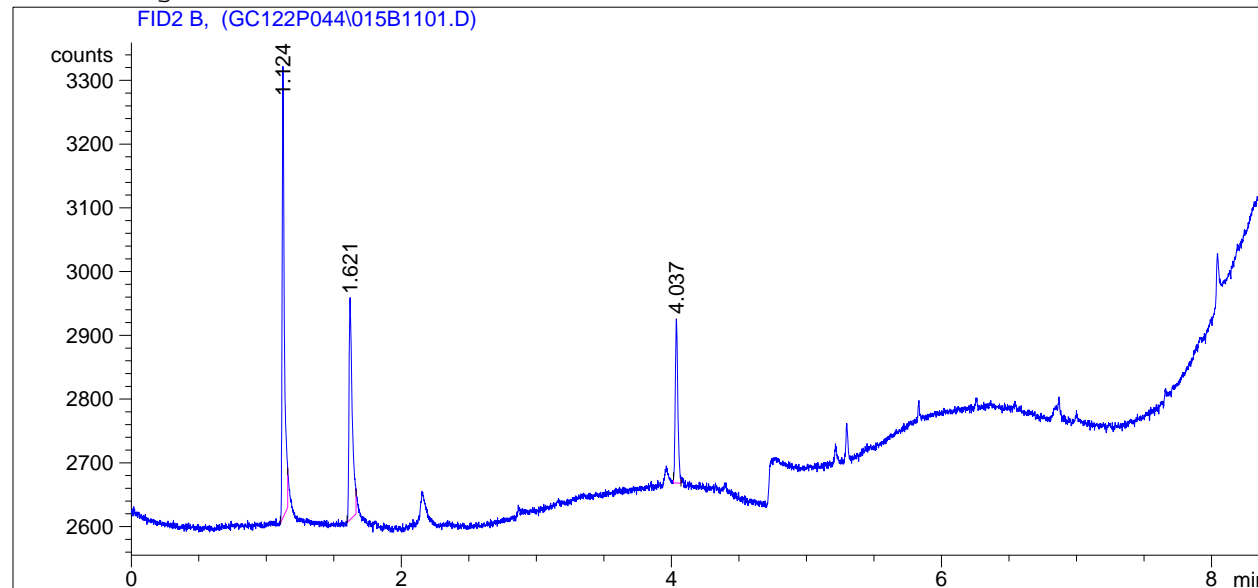
CYCLE DETAILS

Air Volume (ul): 2
 Pre Clean with Solvent 1 (): 0
 Pre Clean with Solvent 2 (): 0
 Plug Volume (ul): 1
 Filling Speed (ul/s): 2
 Inject to: GC Inj1
 Injection Speed (ul/s): 50
 Pre Inject Delay (ms): 0
 Post Inject Delay (ms): 100
 Post Clean with Solvent 1 (): 3
 Post Clean with Solvent 2 (): 3
 TRAY: MT1-Frnt

Sample Chromatograms

```
=====
Acq. Operator   : cjt                               Seq. Line :   11
Acq. Instrument : Teller online                       Location  : Vial 15
Injection Date  : 8/29/2011 6:59:42 PM                Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

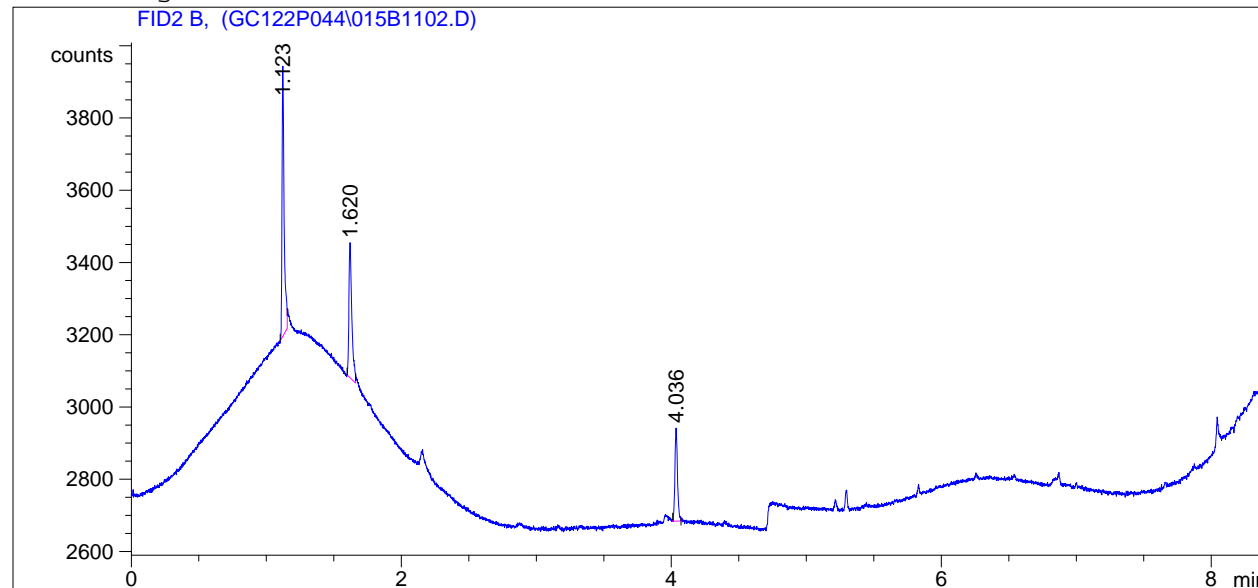
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                      Seq. Line :   11
Acq. Instrument : Teller online             Location  : Vial 15
Injection Date  : 8/29/2011 7:13:40 PM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

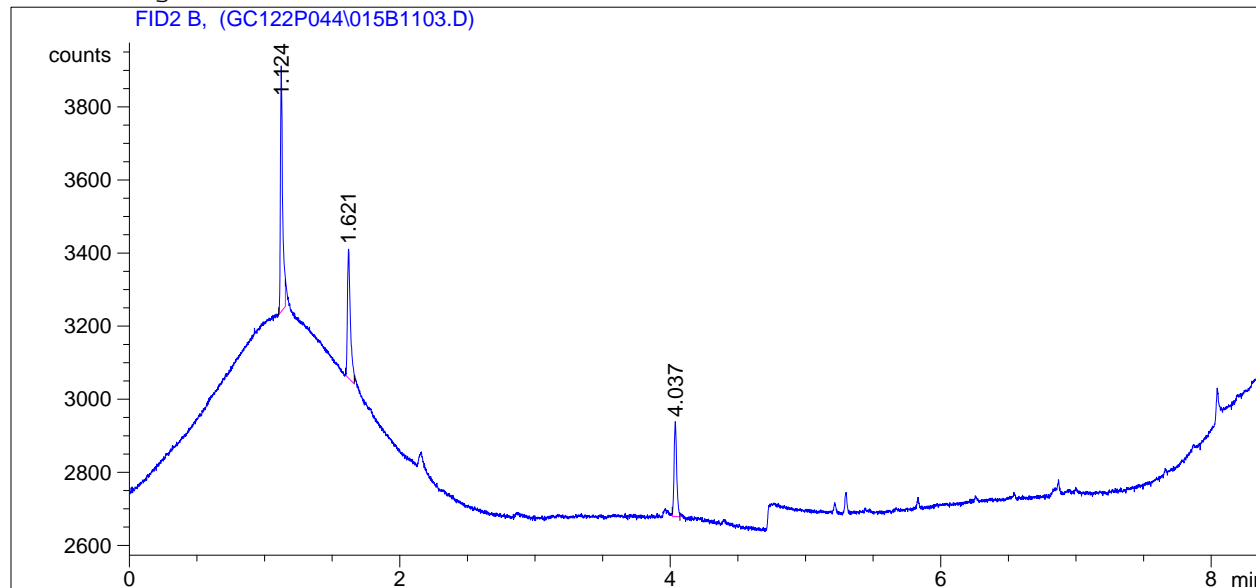
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                      Seq. Line :   11
Acq. Instrument : Teller online             Location  : Vial 15
Injection Date  : 8/29/2011 7:28:04 PM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

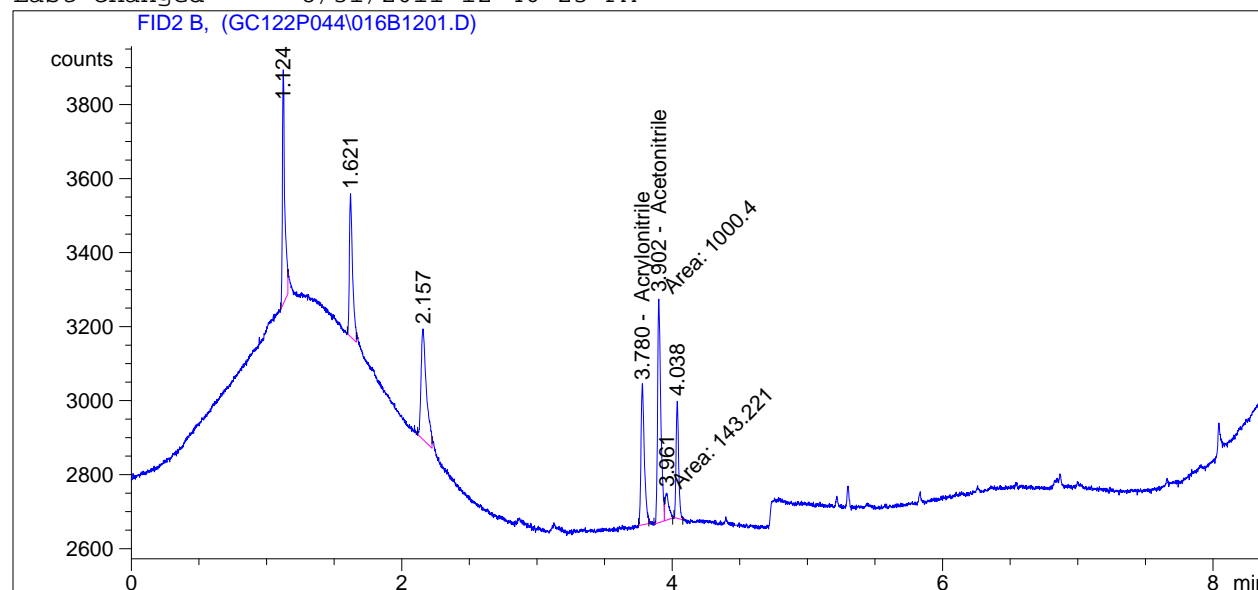
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                               Seq. Line :   12
Acq. Instrument : Teller online                     Location  : Vial 16
Injection Date  : 8/29/2011 7:41:54 PM              Inj       :    1
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.780	BB	650.58337	3.73799e-3	2.43187		Acrylonitrile
3.902	MF	1000.39825	4.52904e-3	4.53085		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "I" (CJT)

Totals : 6.96272

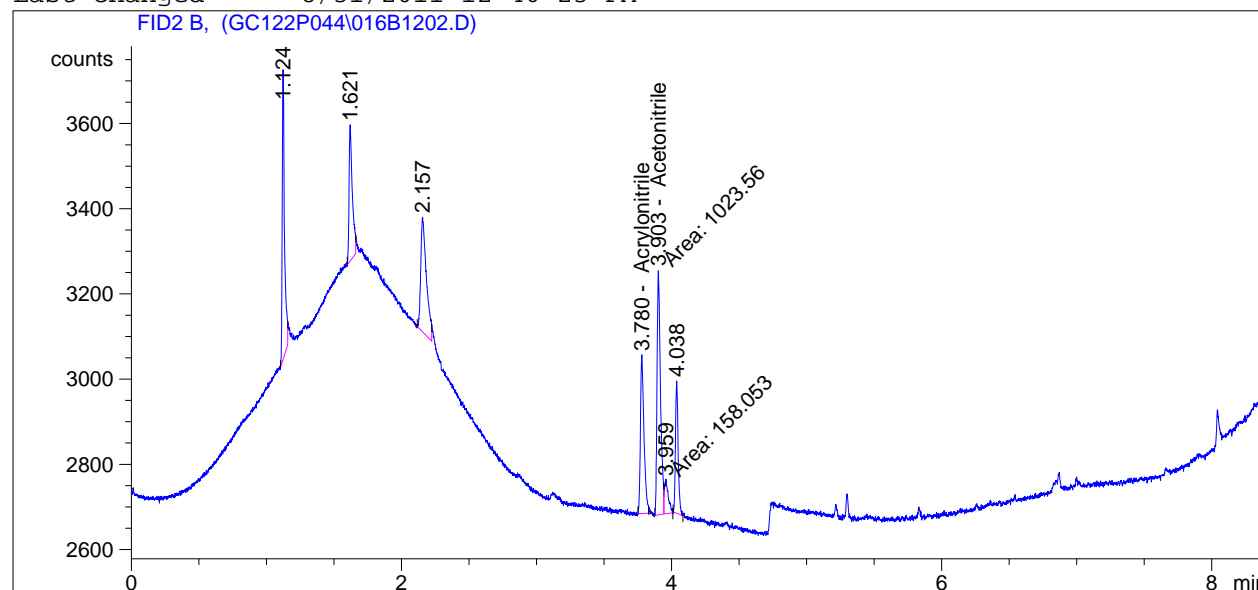
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :   12
Acq. Instrument : Teller online                       Location  : Vial 16
Injection Date  : 8/29/2011 7:55:49 PM                Inj       :    2
                                              Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.780	BB	676.59174	3.73077e-3	2.52421		Acrylonitrile
3.903	MF	1023.55621	4.52495e-3	4.63154		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "I" (CJT)

Totals : 7.15575

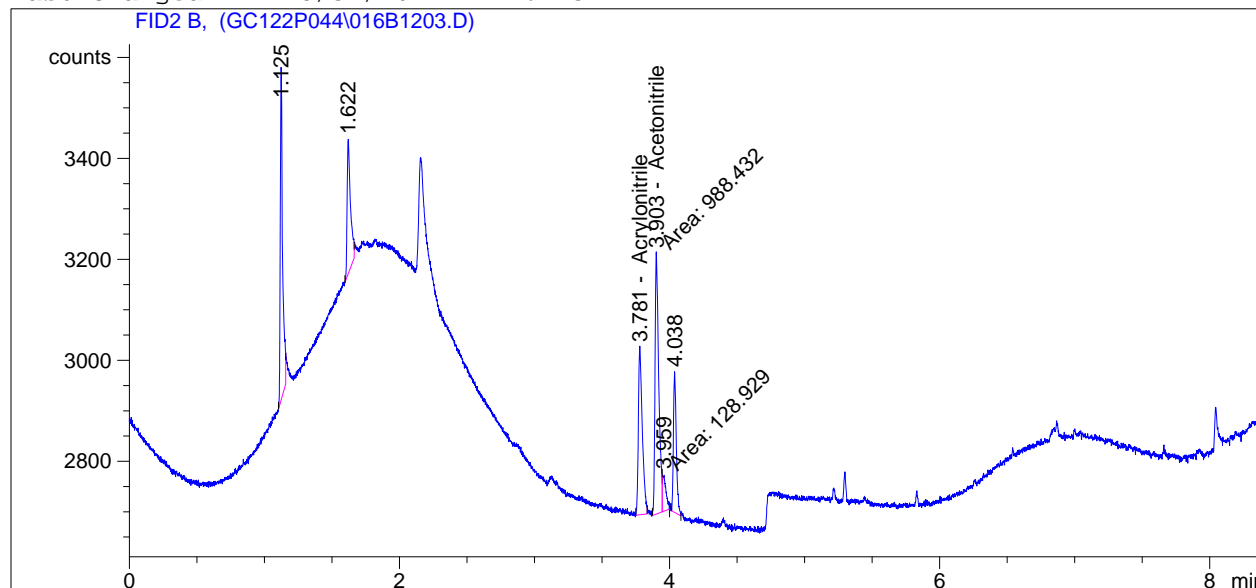
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :   12
Acq. Instrument : Teller online                       Location  : Vial 16
Injection Date  : 8/29/2011 8:09:39 PM                Inj       :    3
                                              Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.781	BB	670.86090	3.73231e-3	2.50386		Acrylonitrile
3.903	MF	988.43176	4.53123e-3	4.47881		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "II" (CJT)

Totals : 6.98268

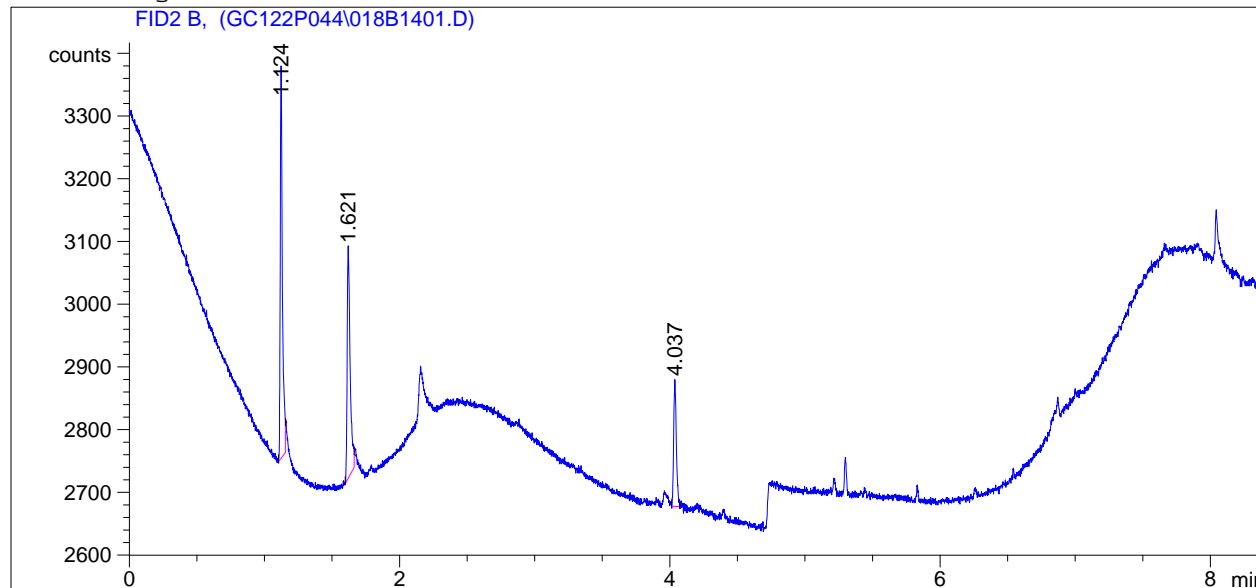
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : cjt                               Seq. Line :   14
Acq. Instrument : Teller online                     Location  : Vial 18
Injection Date  : 8/29/2011 9:05:35 PM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

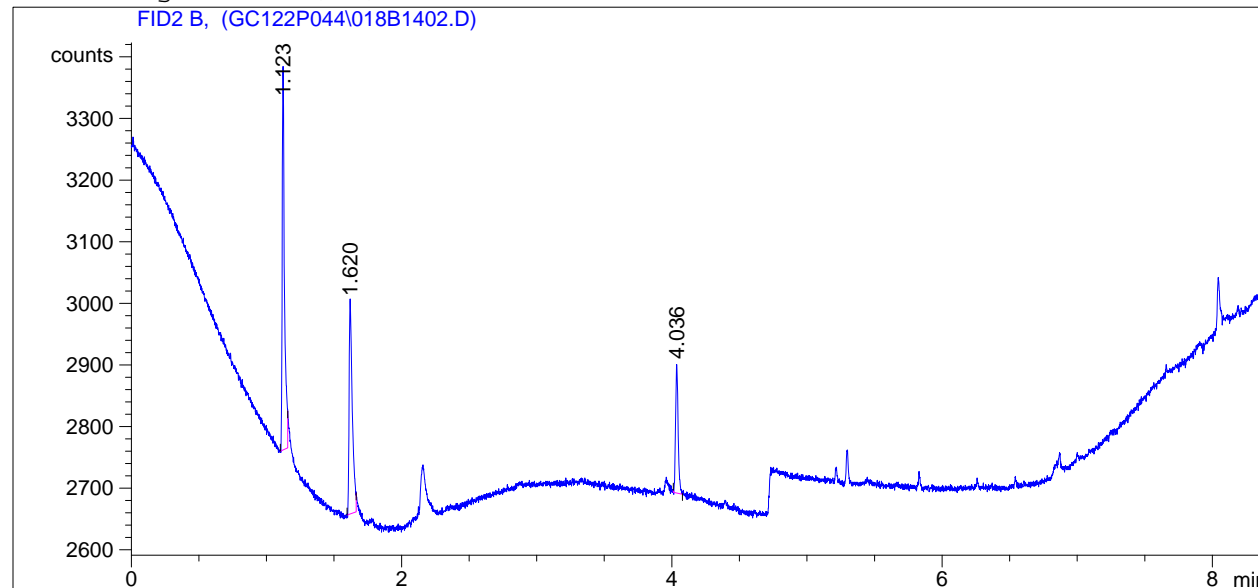
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found


```
=====
Acq. Operator   : cjt                               Seq. Line :   14
Acq. Instrument : Teller online                     Location  : Vial 18
Injection Date  : 8/29/2011 9:19:33 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

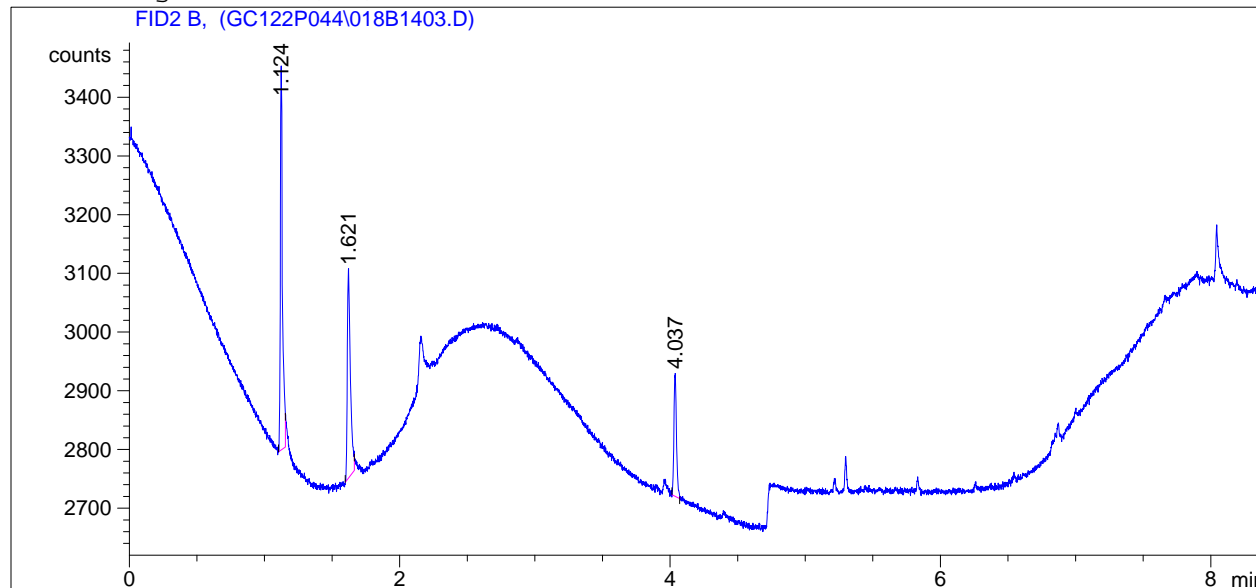
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                               Seq. Line :   14
Acq. Instrument : Teller online                       Location  : Vial 18
Injection Date  : 8/29/2011 9:33:48 PM                Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

Totals : 0.00000

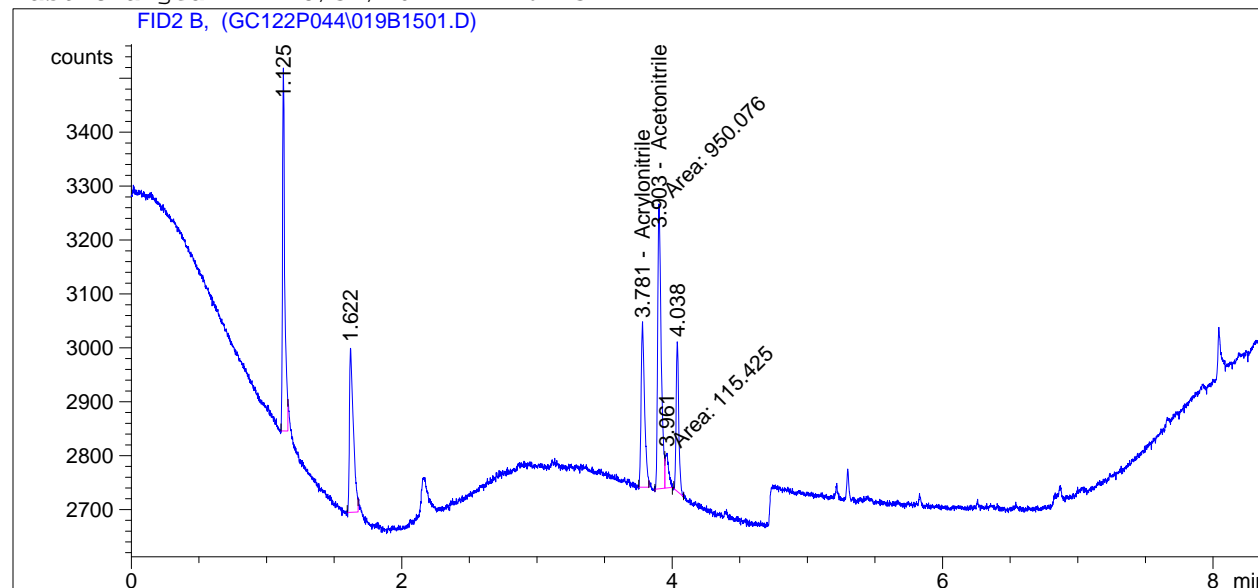
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

=====

Acq. Operator	: cjt	Seq. Line	: 15
Acq. Instrument	: Teller online	Location	: Vial 19
Injection Date	: 8/29/2011 9:47:42 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed : 8/31/2011 12:46:23 PM



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.781	BB	547.36523	3.77341e-3	2.06543		Acrylonitrile
3.903	MF	950.07556	4.53862e-3	4.31204		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "IP" (CJT)

Totals : 6.37747

1 Warnings or Errors :

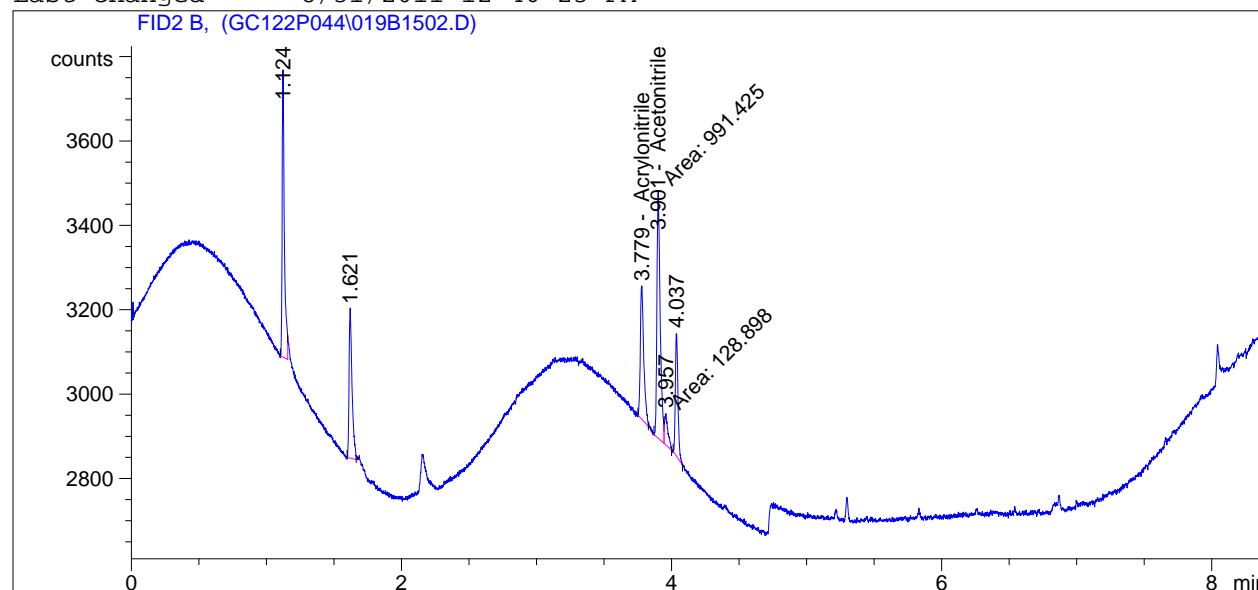
Warning : Calibrated compound(s) not found

=====

*** End of Report ***

```
=====
Acq. Operator   : cjt                               Seq. Line :   15
Acq. Instrument : Teller online                     Location  : Vial 19
Injection Date  : 8/29/2011 10:01:32 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.779	BB	553.85834	3.77079e-3	2.08848		Acrylonitrile
3.901	MF	991.42493	4.53068e-3	4.49183		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "IF" (CJT)

Totals : 6.58031

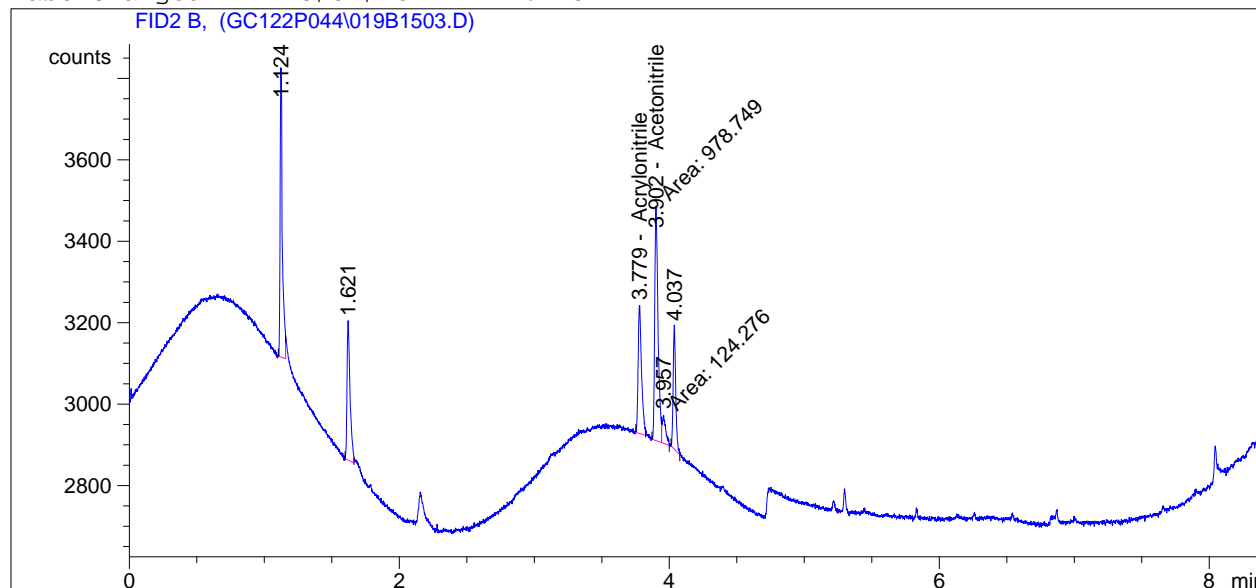
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : cjt                               Seq. Line :   15
Acq. Instrument : Teller online                       Location  : Vial 19
Injection Date  : 8/29/2011 10:15:25 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.779	BB	546.61292	3.77371e-3	2.06276		Acrylonitrile
3.902	MF	978.74872	4.53304e-3	4.43671		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "II" (CJT)

Totals : 6.49947

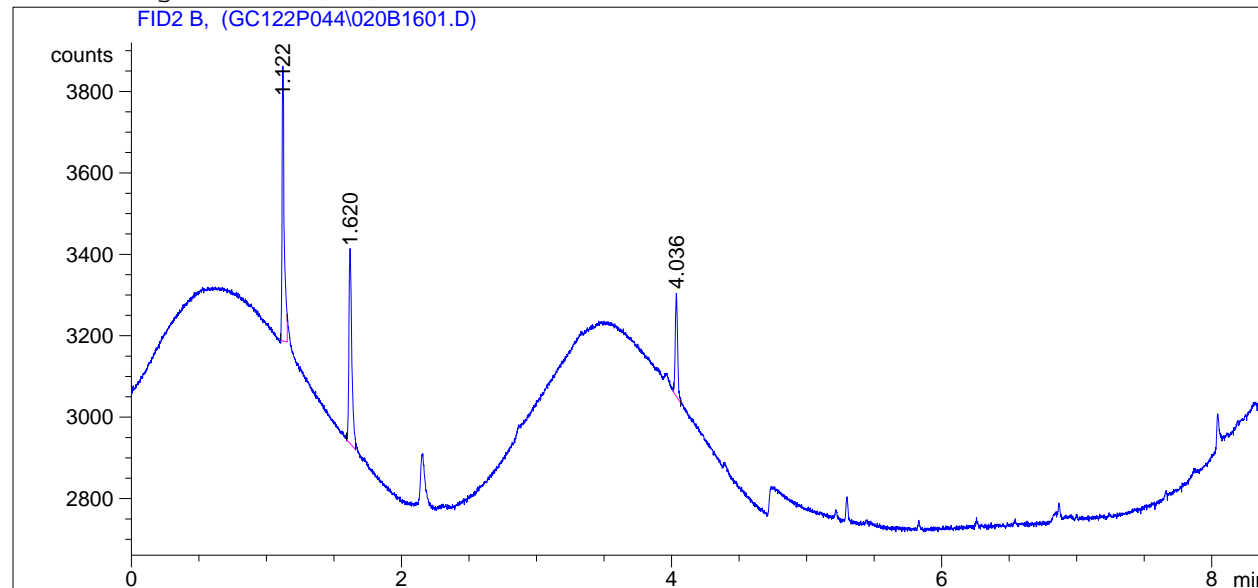
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : cjt                               Seq. Line :   16
Acq. Instrument : Teller online                     Location  : Vial 20
Injection Date  : 8/29/2011 10:29:34 PM             Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

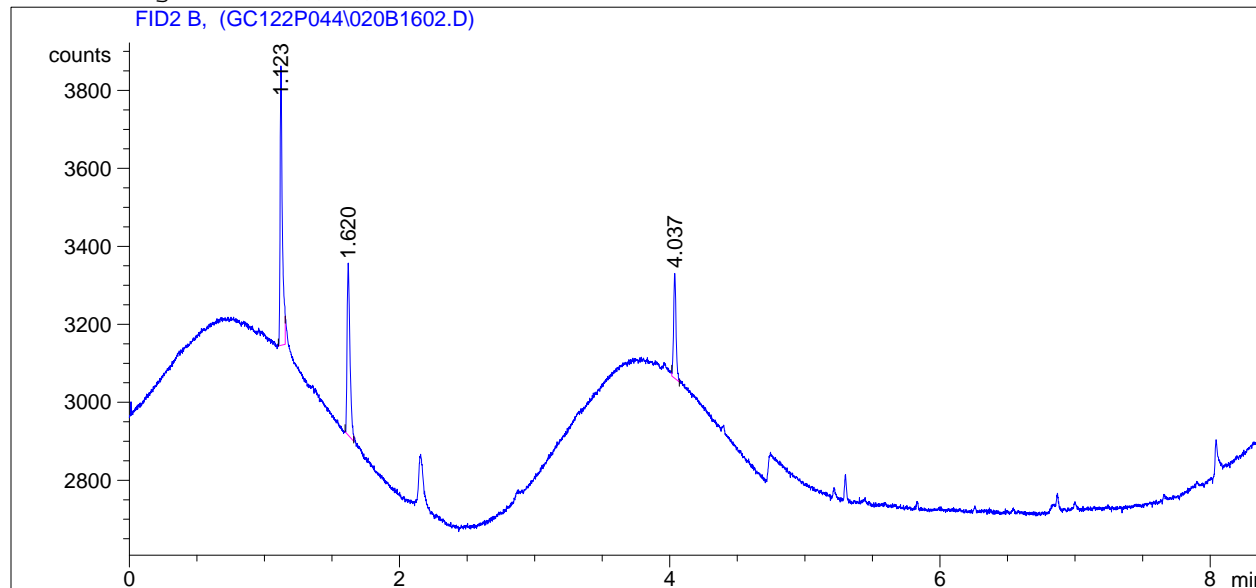
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                      Seq. Line :   16
Acq. Instrument : Teller online             Location  : Vial 20
Injection Date  : 8/29/2011 10:43:35 PM     Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

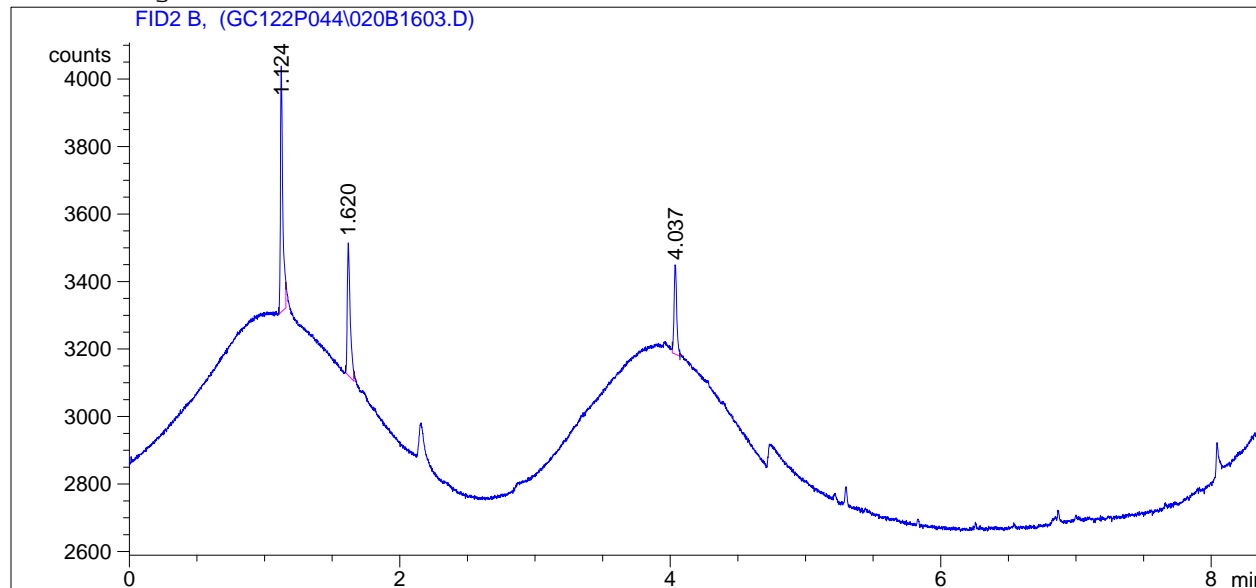
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                      Seq. Line :   16
Acq. Instrument : Teller online             Location  : Vial 20
Injection Date  : 8/29/2011 10:57:23 PM     Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

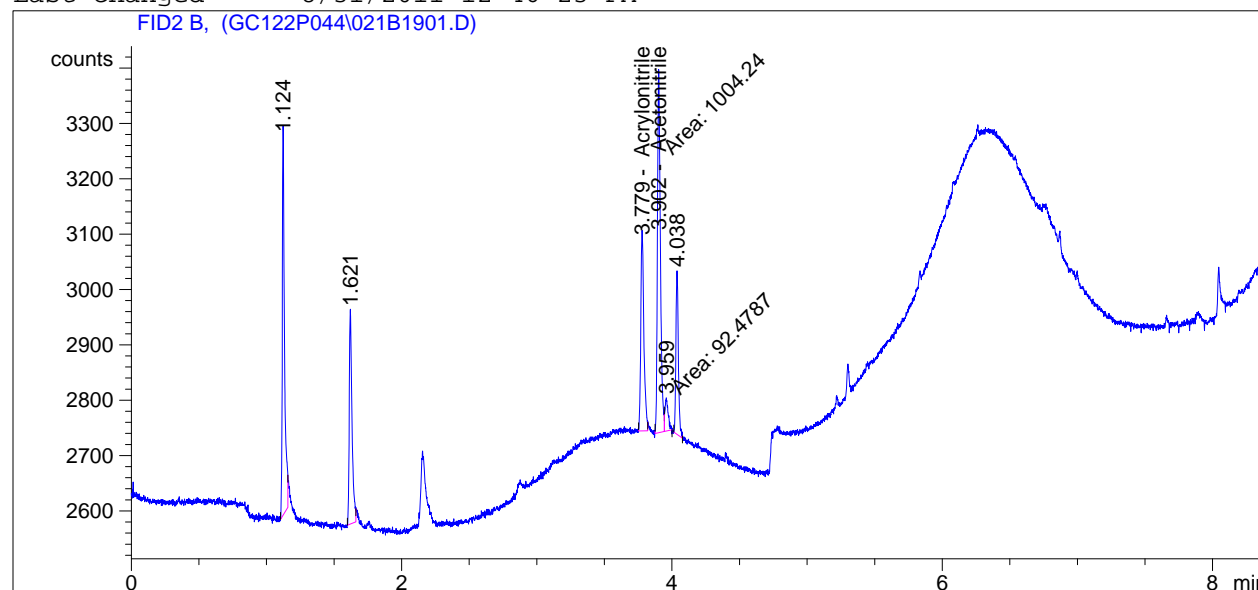
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found


```
=====
Acq. Operator   : cjt                               Seq. Line :   19
Acq. Instrument : Teller online                       Location  : Vial 21
Injection Date  : 8/30/2011 12:34:55 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.779	BB	566.78479	3.76576e-3	2.13437		Acrylonitrile
3.902	MF	1004.24091	4.52835e-3	4.54755		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "II" (CJT)

Totals : 6.68193

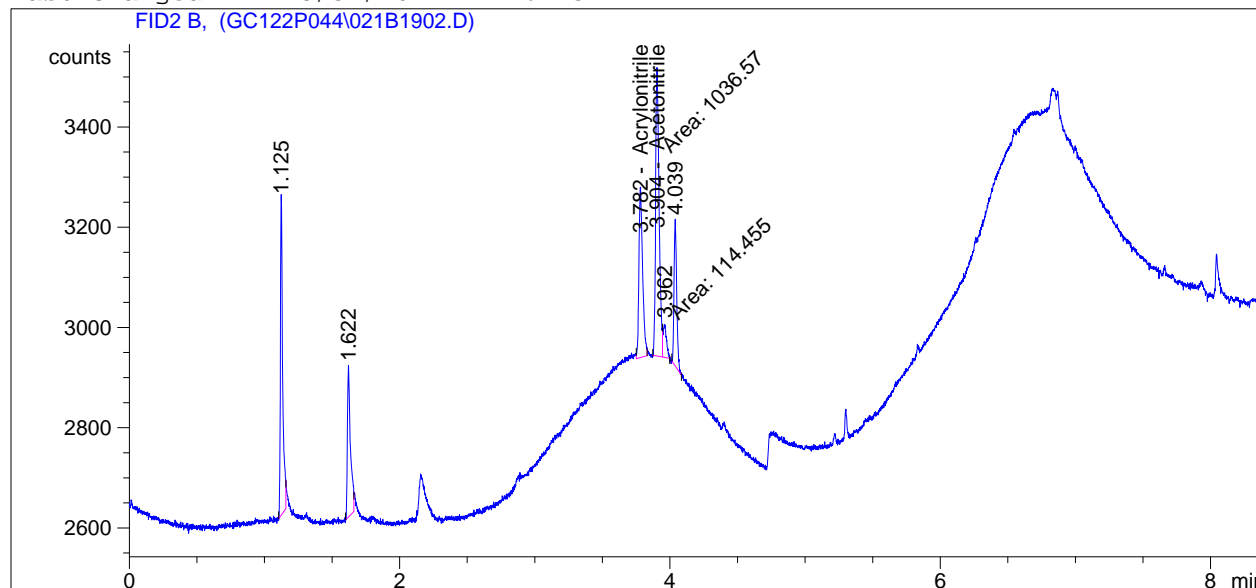
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :   19
Acq. Instrument : Teller online                       Location  : Vial 21
Injection Date  : 8/30/2011 12:48:49 AM              Inj       :    2
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.782	BB	640.97992	3.74080e-3	2.39778		Acrylonitrile
3.904	MF	1036.56885	4.52273e-3	4.68812		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "IF" (CJT)

Totals : 7.08590

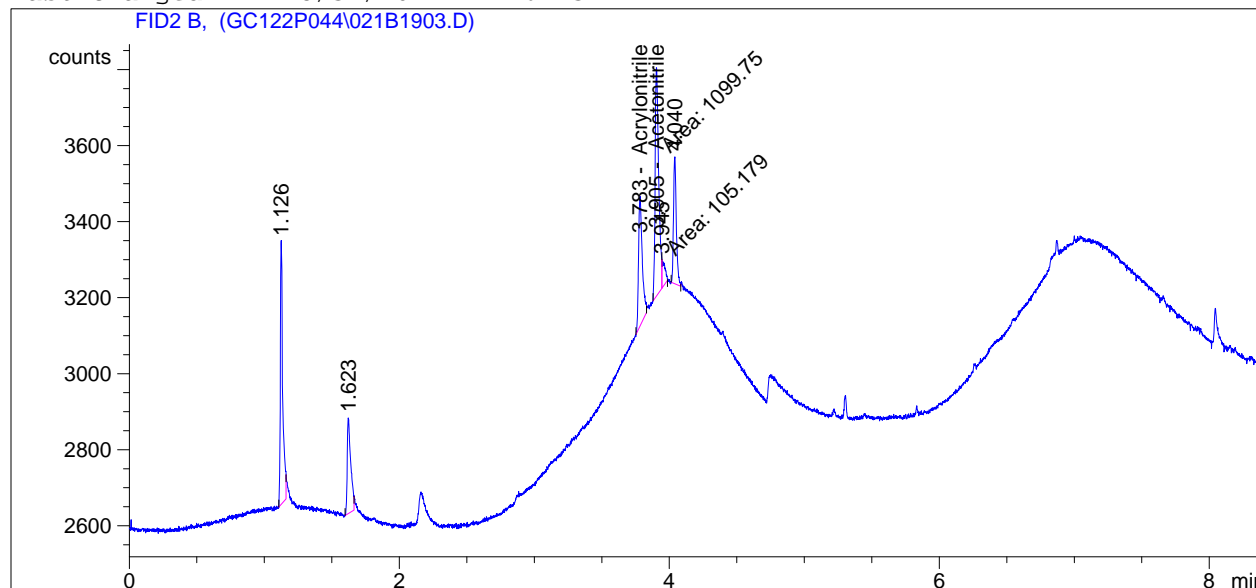
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : cjt                               Seq. Line :   19
Acq. Instrument : Teller online                       Location  : Vial 21
Injection Date  : 8/30/2011 1:02:47 AM                Inj       :    3
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.783	BB	647.55432	3.73887e-3	2.42112		Acrylonitrile
3.905	MF	1099.75061	4.51270e-3	4.96285		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "II" (CJT)

Totals : 7.38397

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

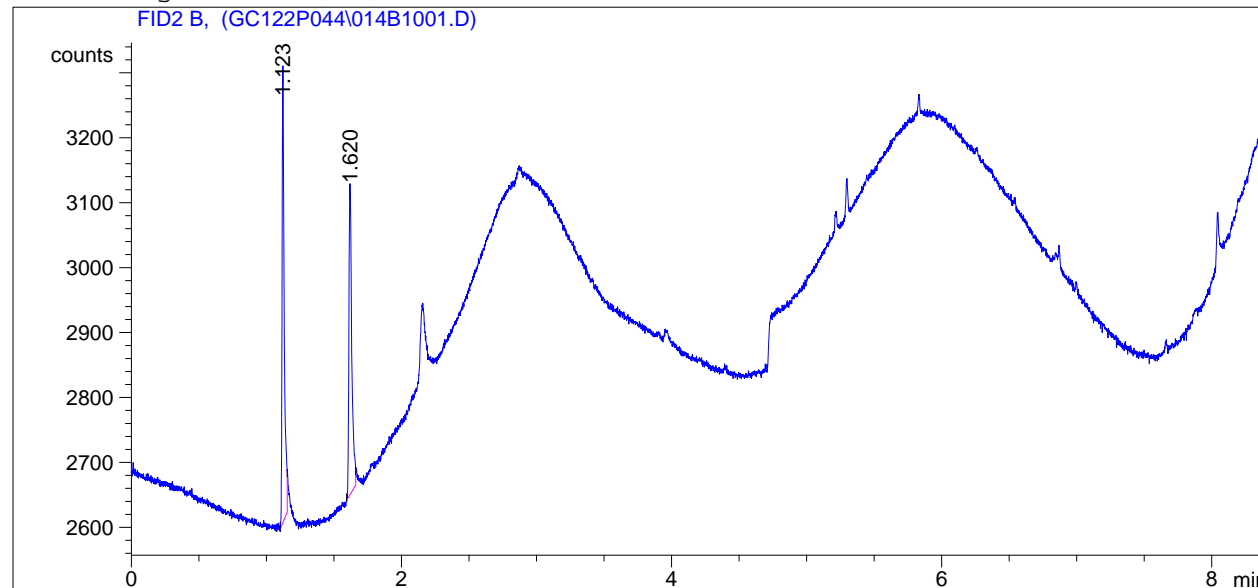
*** End of Report ***

Sample Name: M18 T1R0 UnSpkd Cond. FB Raff. 0711-81

T1R0

```
=====
Acq. Operator   : cjt                      Seq. Line :   10
Acq. Instrument : Teller online             Location  : Vial 14
Injection Date  : 8/29/2011 6:17:51 PM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

```
Totals :                                0.00000
```

1 Warnings or Errors :

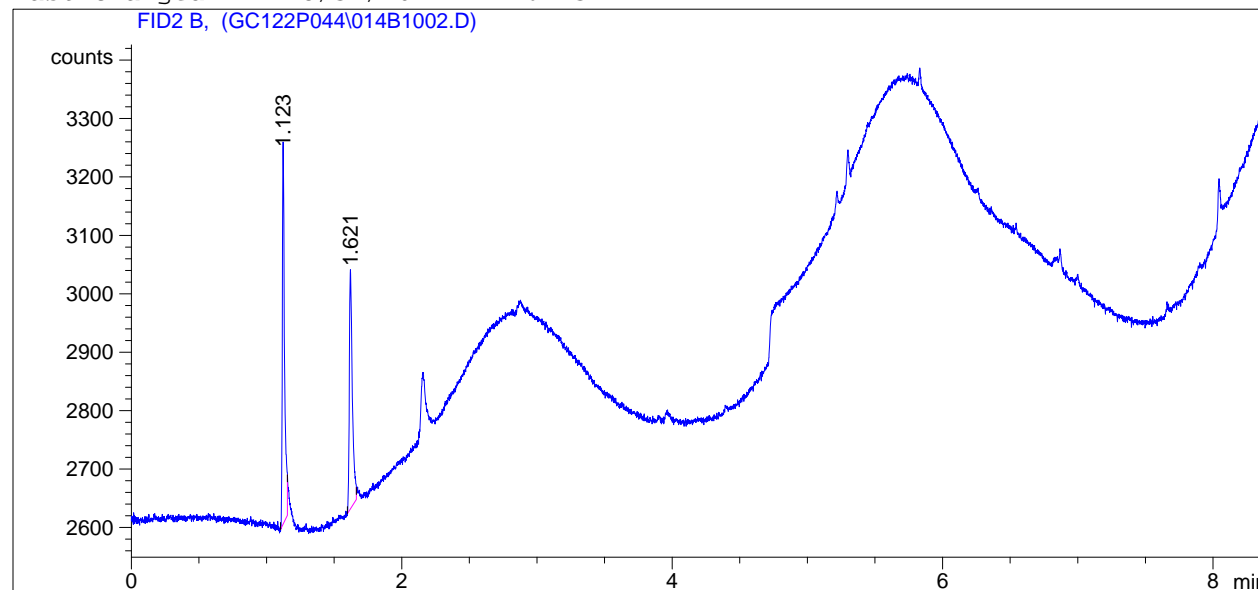
Warning : Calibrated compound(s) not found

Sample Name: M18 ~~TOR0~~ UnSpkd Cond. FB Raff. 0711-81

T1R0

```
=====
Acq. Operator   : cjt                      Seq. Line :   10
Acq. Instrument : Teller online             Location  : Vial 14
Injection Date  : 8/29/2011 6:32:01 PM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

Totals : 0.00000

1 Warnings or Errors :

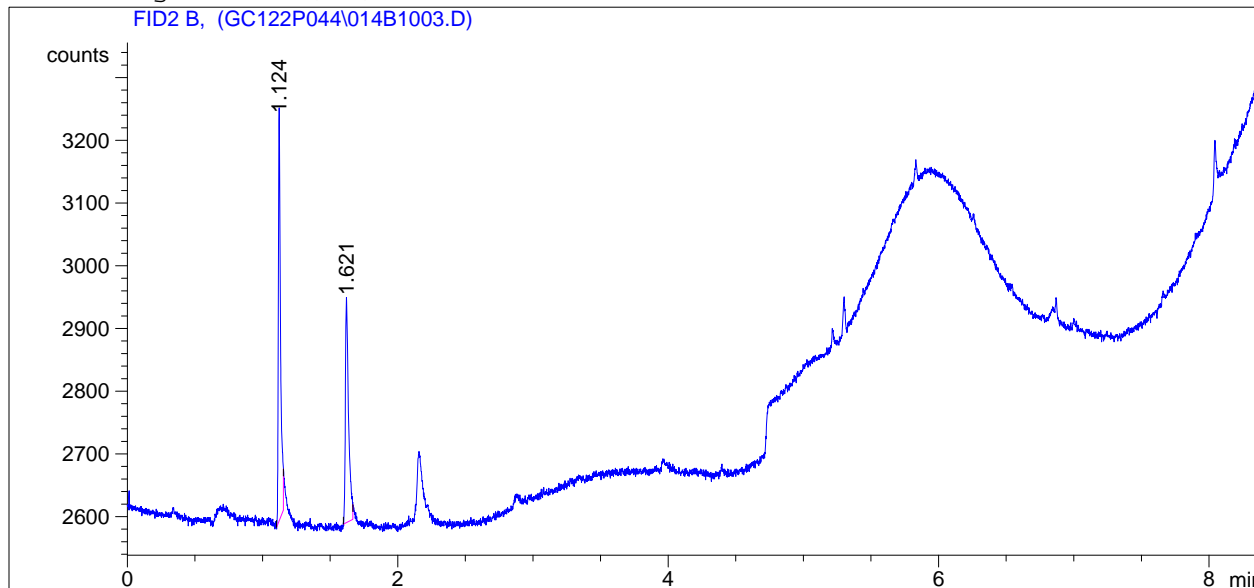
Warning : Calibrated compound(s) not found

Sample Name: M18 T0R0 UnSpkd Cond. FB Raff. 0711-81

T1R0

```
=====
Acq. Operator   : cjt                      Seq. Line :   10
Acq. Instrument : Teller online             Location  : Vial 14
Injection Date  : 8/29/2011 6:45:50 PM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

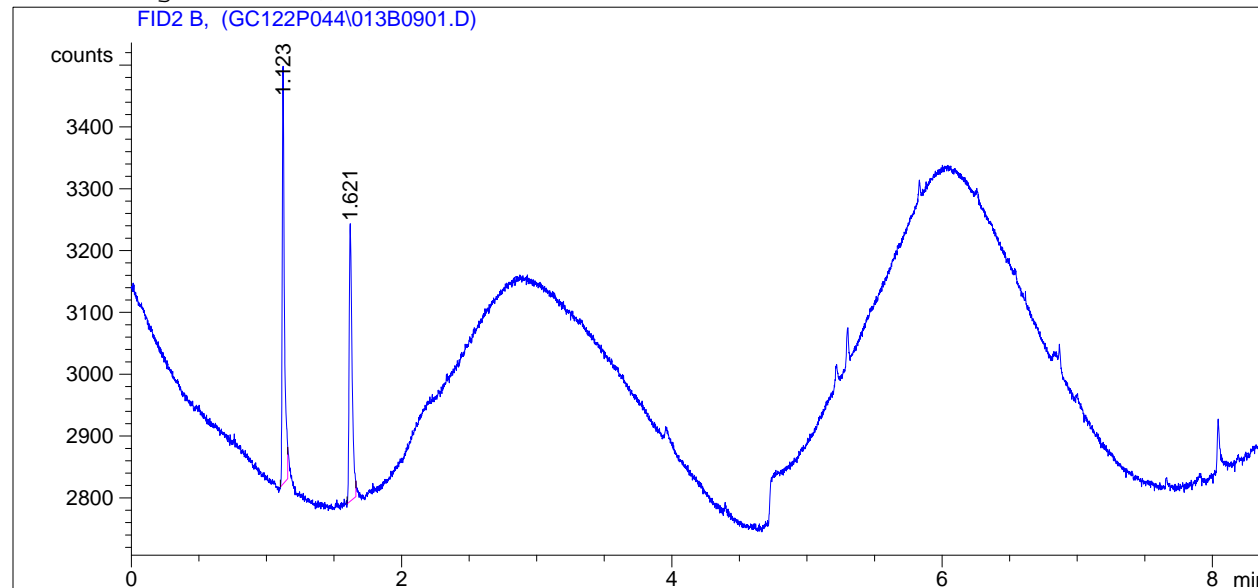
```
Totals :                                0.00000
```

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                      Seq. Line :    9
Acq. Instrument : Teller online             Location  : Vial 13
Injection Date  : 8/29/2011 5:35:50 PM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

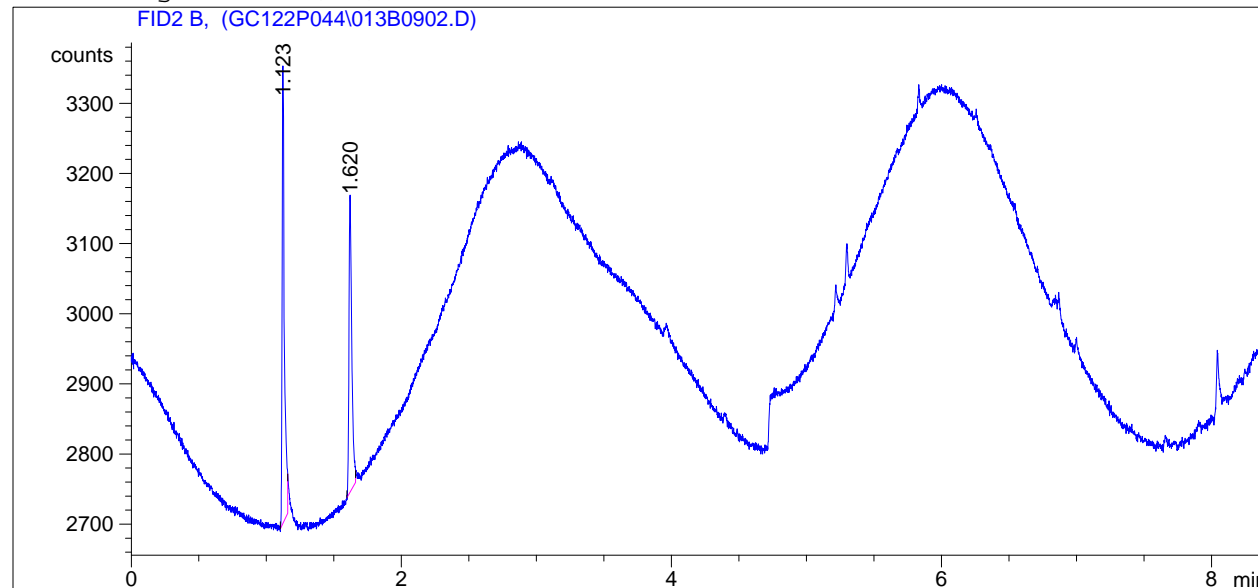
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                      Seq. Line :    9
Acq. Instrument : Teller online             Location  : Vial 13
Injection Date  : 8/29/2011 5:49:45 PM      Inj       :    2
                                           Inj Volume: 1 µl
Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By      :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:      :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

Totals : 0.00000

1 Warnings or Errors :

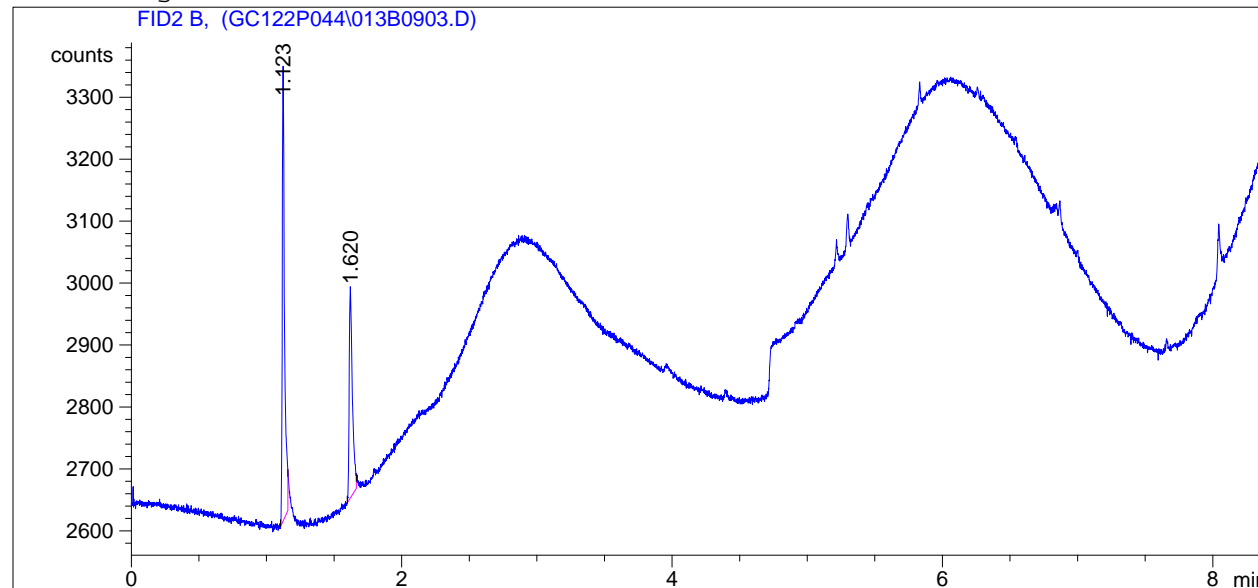
Warning : Calibrated compound(s) not found

```
=====
```



```
=====
Acq. Operator   : cjt                      Seq. Line :    9
Acq. Instrument : Teller online             Location  : Vial 13
Injection Date  : 8/29/2011 6:03:41 PM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	-	-	-	-	-	Acrylonitrile
3.893	-	-	-	-	-	Acetonitrile
4.783	-	-	-	-	-	2-Nitropropane

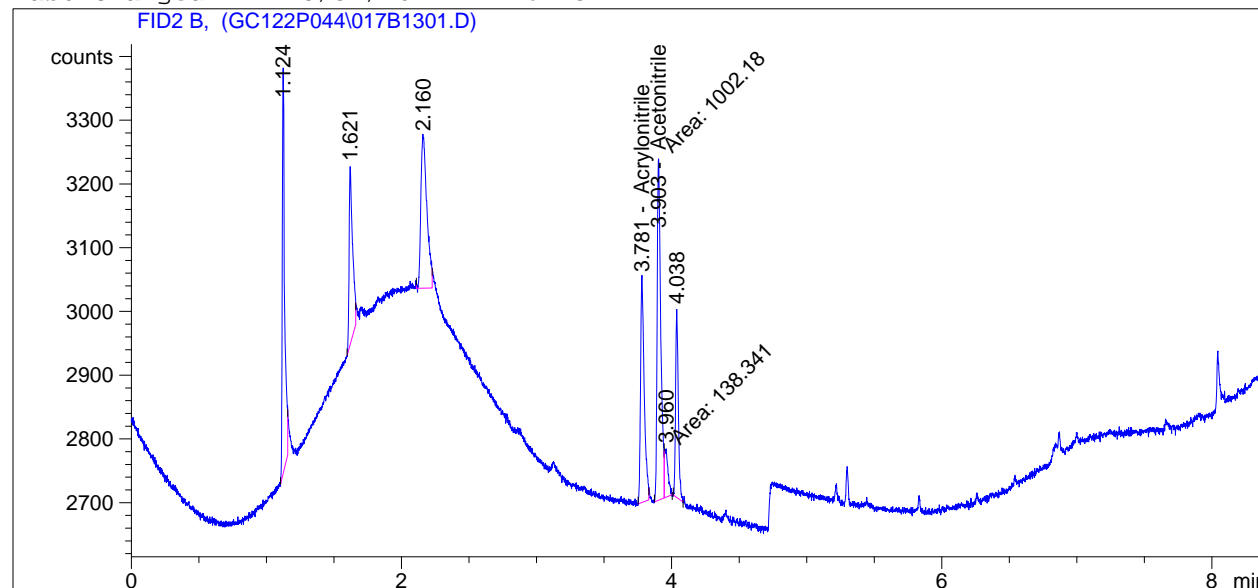
Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
Acq. Operator   : cjt                               Seq. Line :   13
Acq. Instrument : Teller online                       Location  : Vial 17
Injection Date  : 8/29/2011 8:23:46 PM                Inj       :    1
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.781	BB	672.97217	3.73174e-3	2.51136		Acrylonitrile
3.903	MF	1002.17822	4.52872e-3	4.53859		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "II" (CJT)

Totals : 7.04994

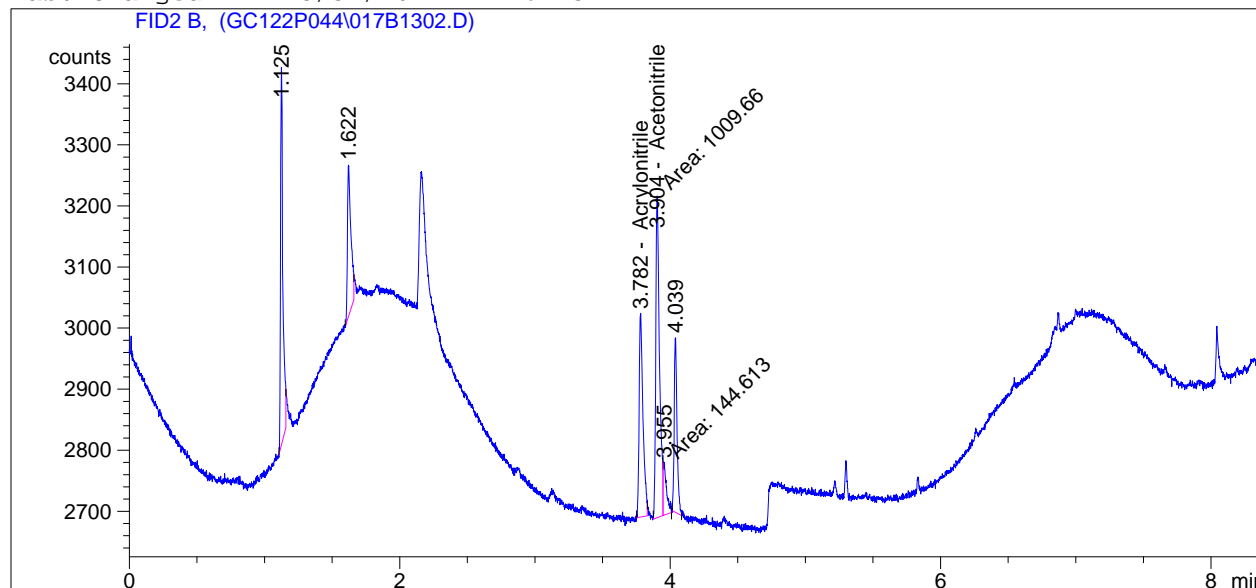
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :   13
Acq. Instrument : Teller online                     Location  : Vial 17
Injection Date  : 8/29/2011 8:37:54 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.782	BB	650.64026	3.73797e-3	2.43208		Acrylonitrile
3.904	MF	1009.66077	4.52738e-3	4.57112		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "II" (CJT)

Totals : 7.00320

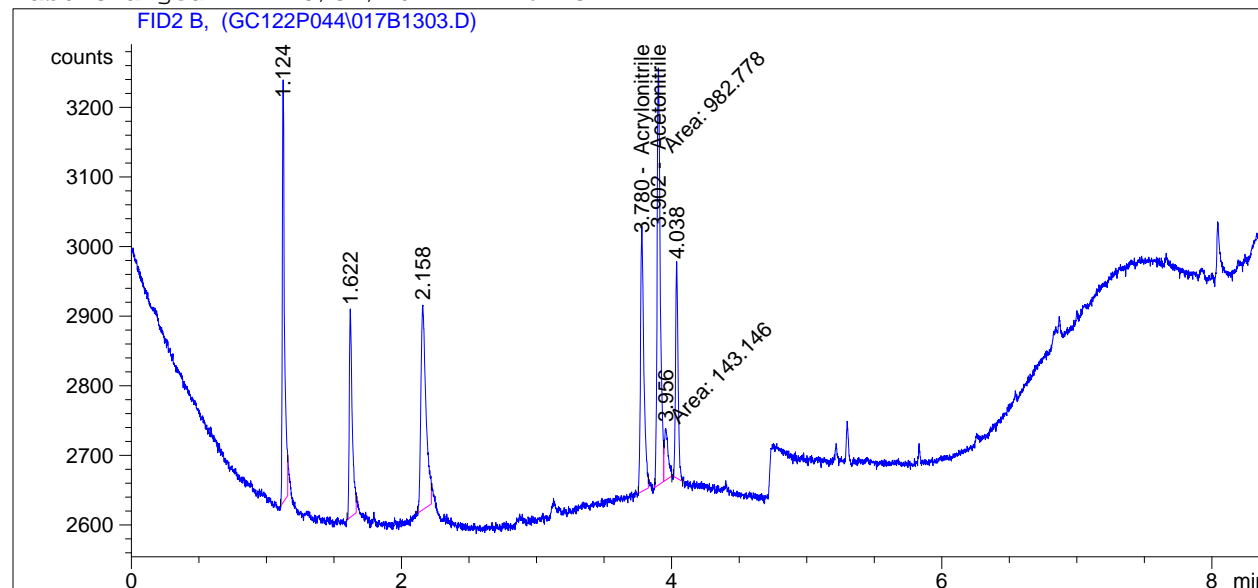
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : cjt                               Seq. Line :   13
Acq. Instrument : Teller online                     Location  : Vial 17
Injection Date  : 8/29/2011 8:51:49 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.780	BB	650.39783	3.73804e-3	2.43122		Acrylonitrile
3.902	MF	982.77820	4.53229e-3	4.45423		Acetonitrile
4.783		-	-	-		2-Nitropropane

Manual Int. "I" (CJT)

Totals : 6.88545

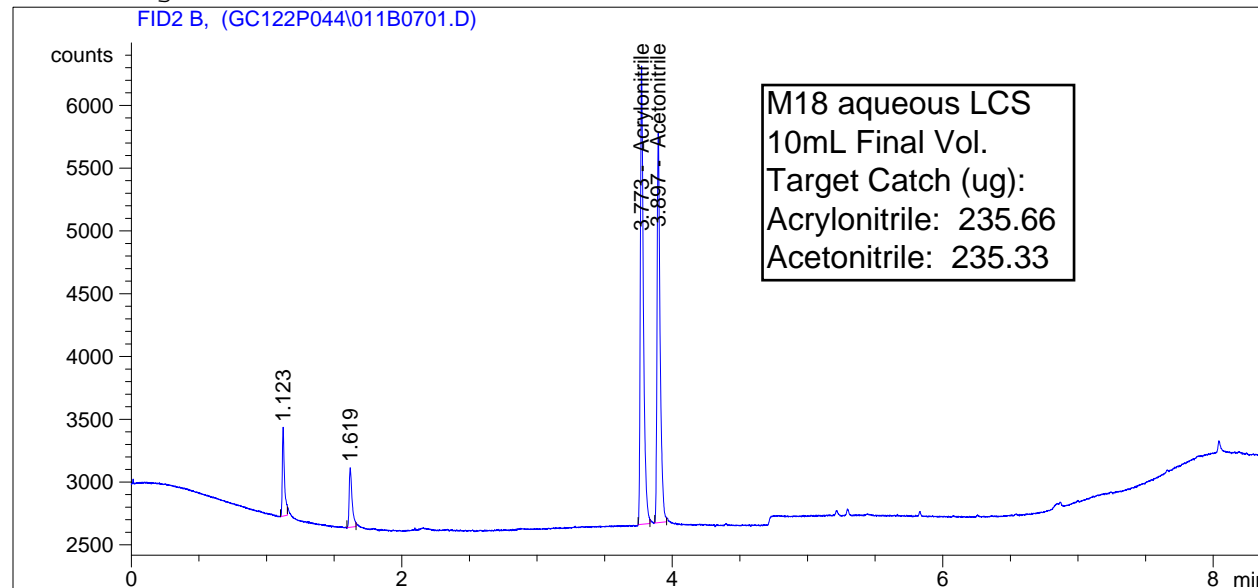
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    7
Acq. Instrument : Teller online                       Location  : Vial 11
Injection Date  : 8/29/2011 4:11:26 PM                Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.773	BB	5752.33350	3.57141e-3	20.54397		Acrylonitrile
3.897	BB	4888.71631	4.38517e-3	21.43785		Acetonitrile
4.783		-	-	-		2-Nitropropane

Totals : 41.98182

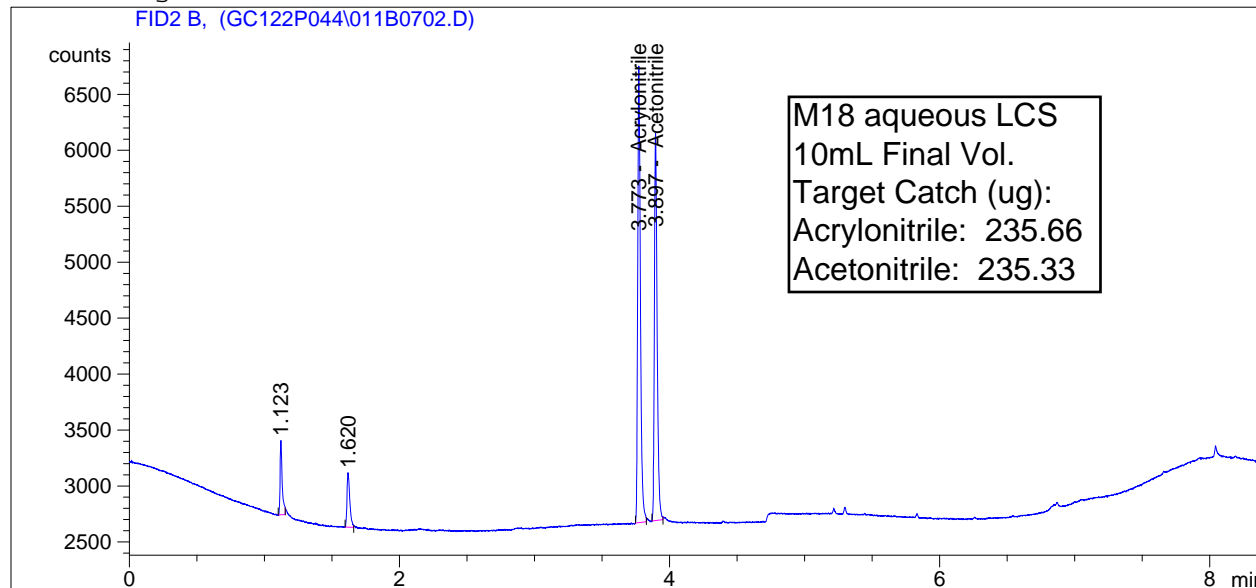
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    7
Acq. Instrument : Teller online                       Location  : Vial 11
Injection Date  : 8/29/2011 4:25:35 PM                Inj       :    2
                                              Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.773	BB	5734.04053	3.57148e-3	20.47903		Acrylonitrile
3.897	BB	4886.60986	4.38519e-3	21.42869		Acetonitrile
4.783		-	-	-		2-Nitropropane

Totals : 41.90772

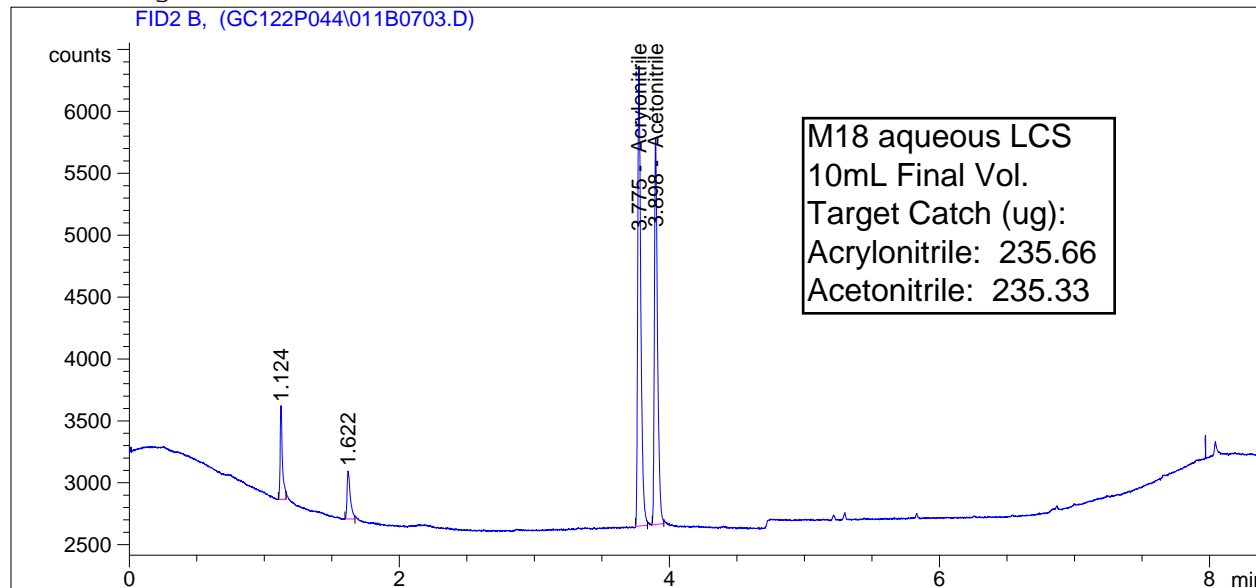
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                      Seq. Line :    7
Acq. Instrument : Teller online             Location  : Vial 11
Injection Date  : 8/29/2011 4:39:36 PM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.775	BB	5917.21533	3.57082e-3	21.12933		Acrylonitrile
3.898	BB	5009.28418	4.38428e-3	21.96210		Acetonitrile
4.783		-	-	-		2-Nitropropane

Totals : 43.09142

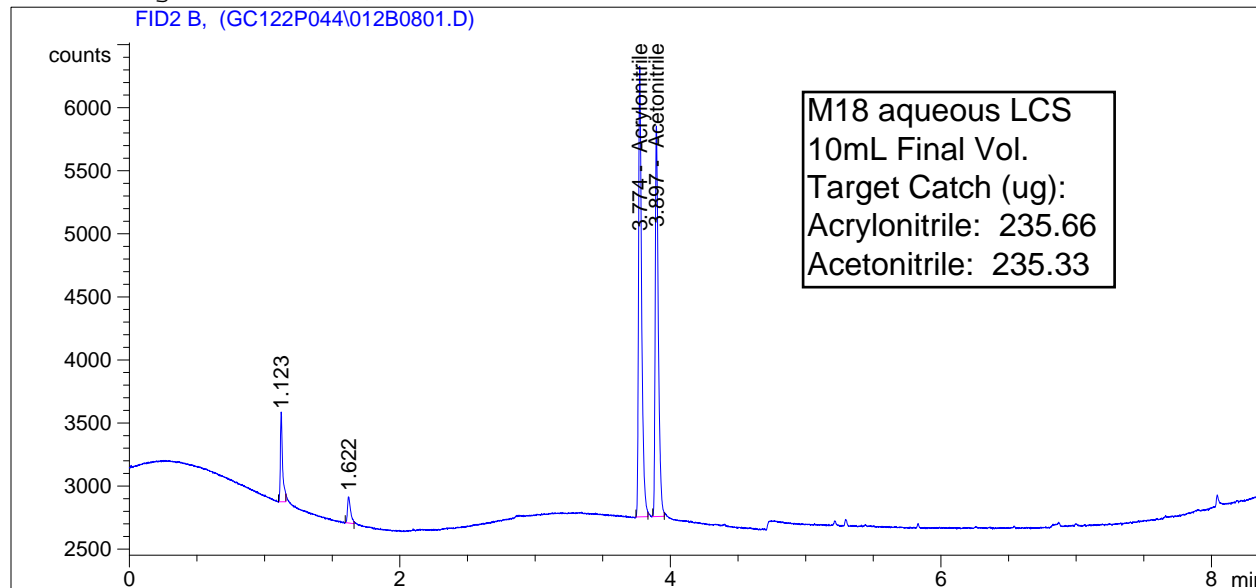
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    8
Acq. Instrument : Teller online                     Location  : Vial 12
Injection Date  : 8/29/2011 4:53:30 PM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.774	BB	5687.23096	3.57166e-3	20.31284		Acrylonitrile
3.897	BB	4955.79736	4.38467e-3	21.72953		Acetonitrile
4.783		-	-	-		2-Nitropropane

Totals : 42.04237

1 Warnings or Errors :

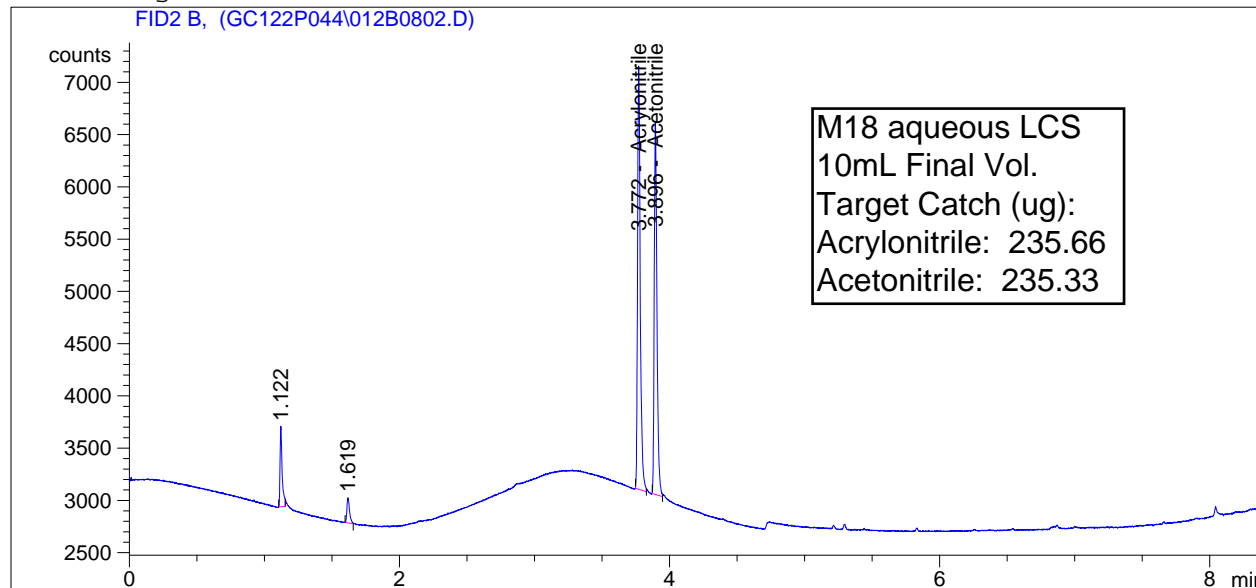
Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : cjt                               Seq. Line :    8
Acq. Instrument : Teller online                     Location  : Vial 12
Injection Date  : 8/29/2011 5:07:34 PM              Inj       :    2
                                                Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.772	BB	5635.46240	3.57186e-3	20.12906		Acrylonitrile
3.896	BB	4990.09131	4.38442e-3	21.87864		Acetonitrile
4.783		-	-	-		2-Nitropropane

Totals : 42.00770

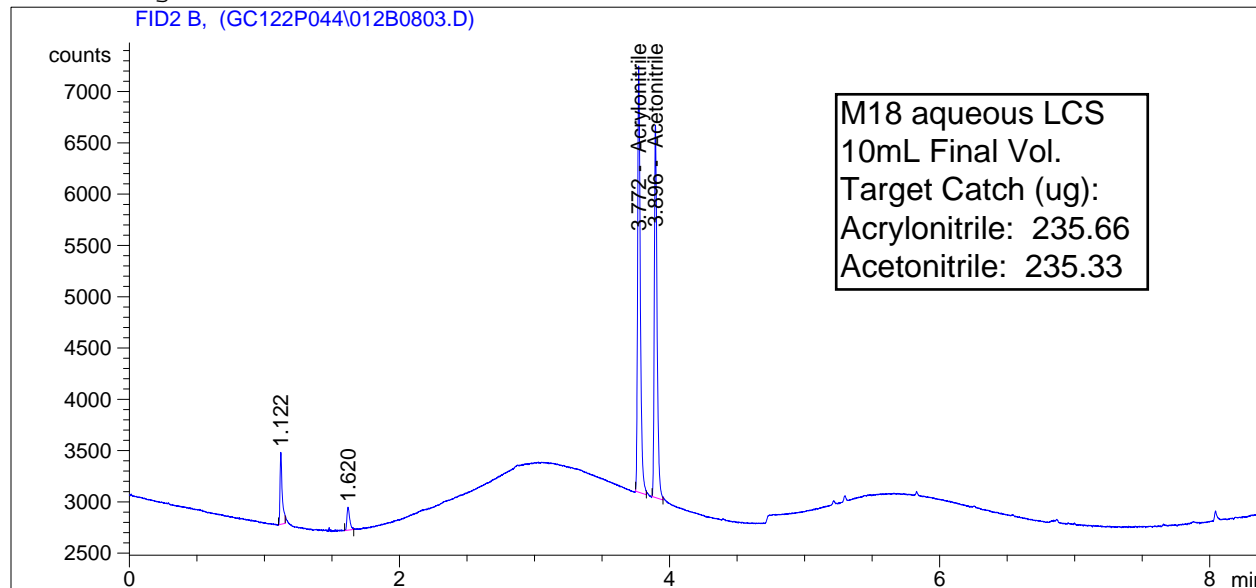
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                      Seq. Line :    8
Acq. Instrument : Teller online             Location  : Vial 12
Injection Date  : 8/29/2011 5:21:55 PM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.772	BB	5775.42383	3.57133e-3	20.62594		Acrylonitrile
3.896	BB	5123.35938	4.38347e-3	22.45811		Acetonitrile
4.783		-	-	-		2-Nitropropane

Totals : 43.08406

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
=====
*** End of Report ***
=====
```

Calibration Curve Chromatograms

```

=====
                        Calibration Table
=====

```

Calib. Data Modified : Friday, September 09, 2011 10:13:38 AM

Rel. Reference Window : 0.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 0.000 %
 Abs. Non-ref. Window : 0.100 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Quadratic (Resp)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID2 B,

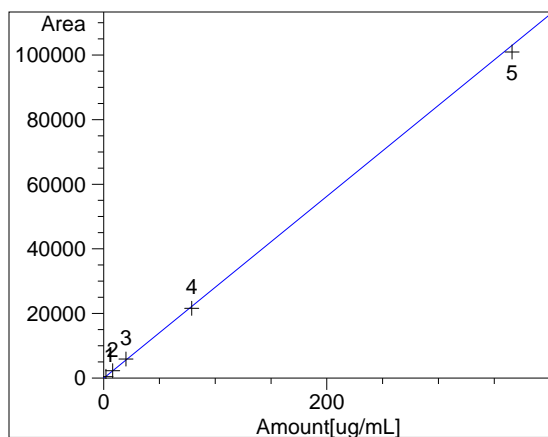
RetTime [min]	Lvl Sig	Amount [ug/mL]	Area	Amt/Area	Ref Grp Name
3.779	1 1	2.01200	528.58584	3.80638e-3	Acrylonitrile
	2	8.03600	2268.69425	3.54213e-3	
	3	20.03000	5853.41276	3.42194e-3	
	4	78.94100	2.15907e4	3.65625e-3	
	5	366.00000	1.00964e5	3.62505e-3	
3.903	1 1	1.96400	407.89082	4.81501e-3	Acetonitrile
	2	7.84300	1787.34802	4.38807e-3	
	3	19.54800	4597.61816	4.25177e-3	
	4	77.04300	1.72507e4	4.46607e-3	
	5	357.20000	8.10311e4	4.40818e-3	
4.783	1 1	2.41900	484.97318	4.98790e-3	2-Nitropropane
	2	9.66300	1939.44014	4.98237e-3	
	3	24.08400	4947.09277	4.86831e-3	
	4	94.92100	1.94259e4	4.88632e-3	
	5	440.10000	9.08537e4	4.84405e-3	

```

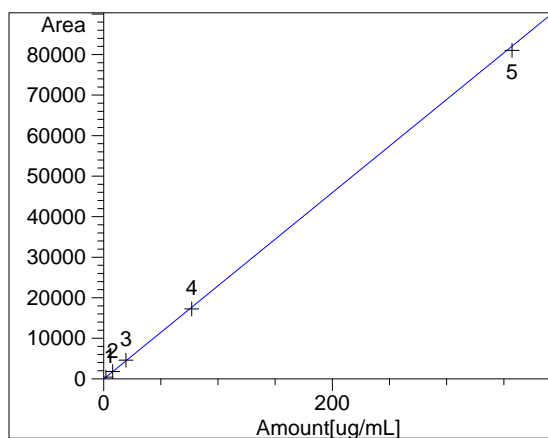
=====
                        Peak Sum Table
=====

```

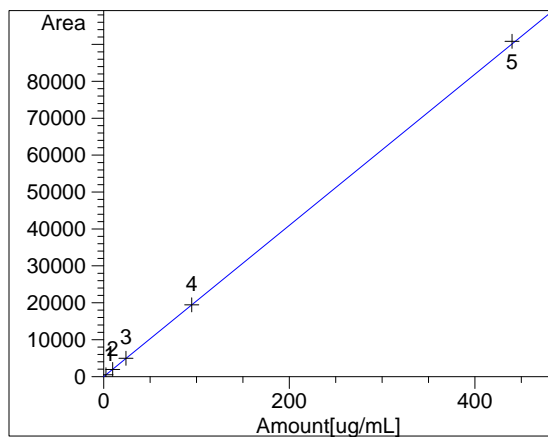
No Entries in table

=====
Calibration Curves
=====

Acrylonitrile at exp. RT: 3.779
FID2 B,
Correlation: 0.99949
Residual Std. Dev.: 1268.12450
Formula: $y = mx + b$
m: 281.67640
b: -34.41812
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.054285
Level 3 : 0.008155
Level 4 : 0.000599
Level 5 : 0.000027



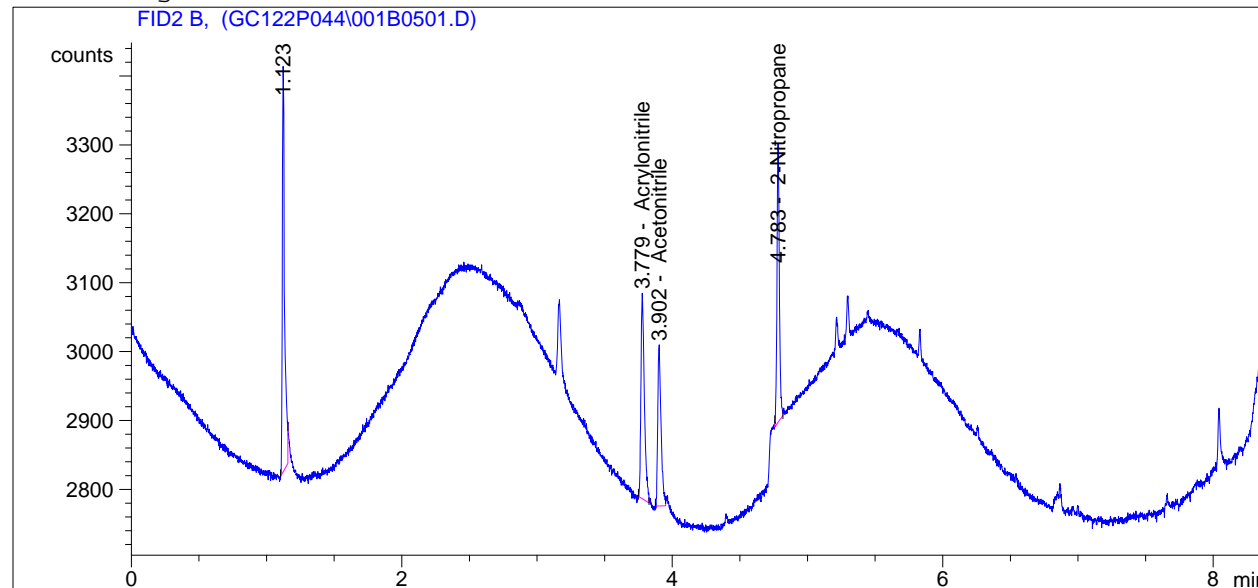
Acetonitrile at exp. RT: 3.903
FID2 B,
Correlation: 0.99970
Residual Std. Dev.: 674.03532
Formula: $y = mx + b$
m: 229.98271
b: -41.61803
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.05208
Level 3 : 0.007871
Level 4 : 0.000559
Level 5 : 0.000025



2-Nitropropane at exp. RT: 4.783
FID2 B,
Correlation: 0.99995
Residual Std. Dev.: 395.53037
Formula: $y = mx + b$
m: 204.91242
b: -12.24051
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.062529
Level 3 : 0.00961
Level 4 : 0.000623
Level 5 : 0.000028

```
=====
Acq. Operator   : cjt                      Seq. Line :    5
Acq. Instrument : Teller online             Location  : Vial 1
Injection Date  : 8/29/2011 2:46:49 PM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

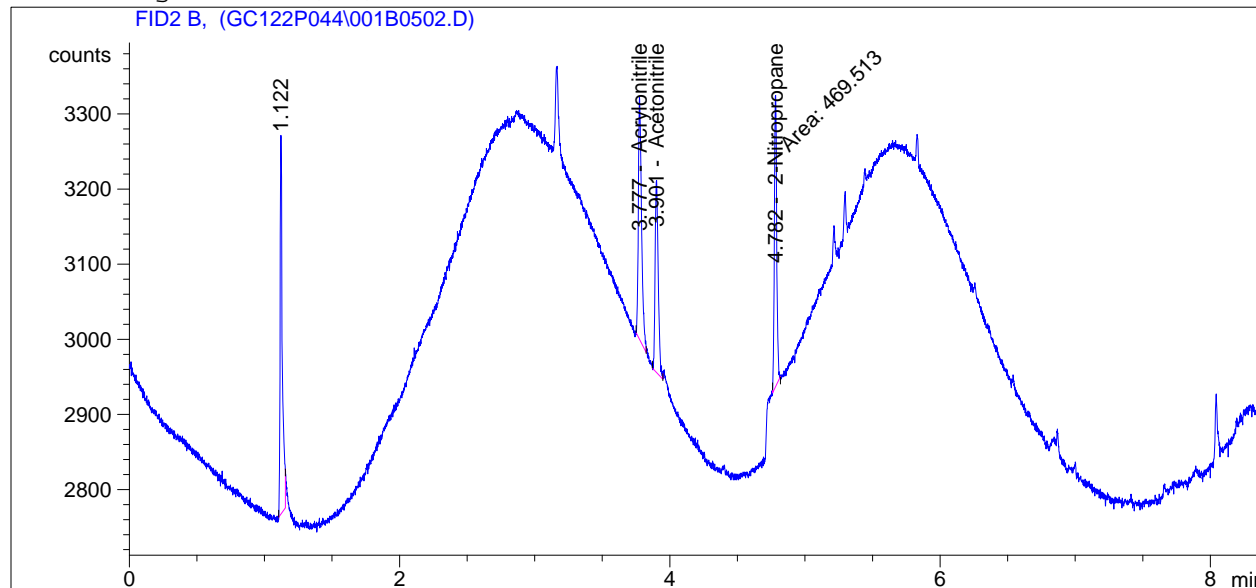
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.779	BB	525.01294	3.77972e-3	1.98440		Acrylonitrile
3.902	BB	398.75211	4.78945e-3	1.90980		Acetonitrile
4.783	BB	495.76358	4.80942e-3	2.38434		2-Nitropropane

Totals : 6.27854

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                      Seq. Line :    5
Acq. Instrument : Teller online             Location  : Vial 1
Injection Date  : 8/29/2011 3:00:53 PM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

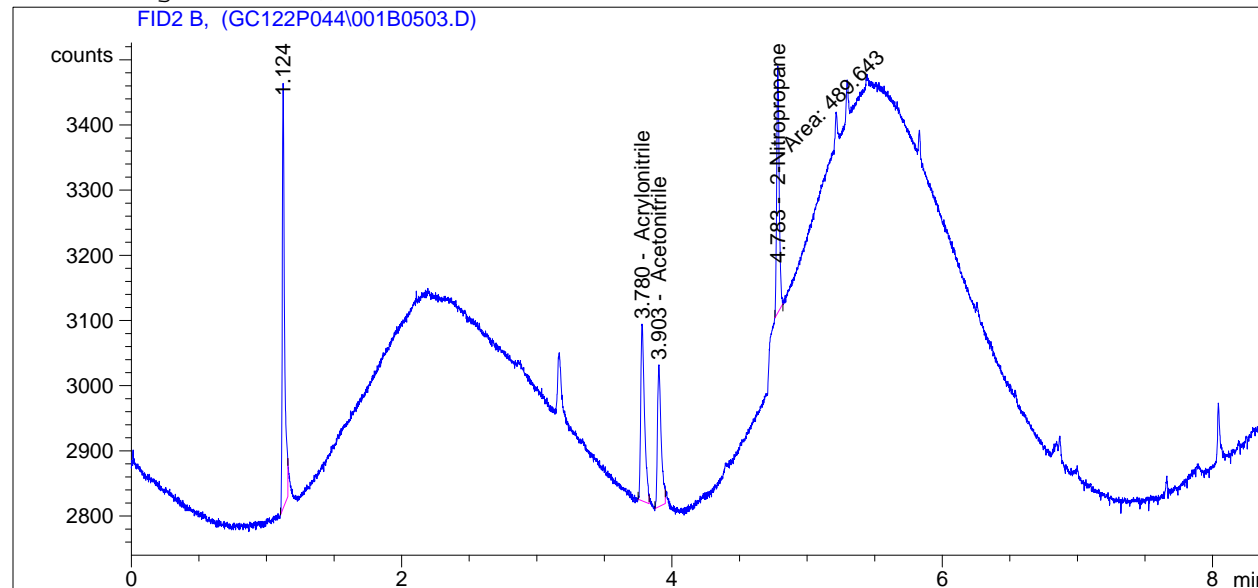
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.777	BB	533.29199	3.77930e-3	2.01547		Acrylonitrile
3.901	BB	410.75443	4.78871e-3	1.96698		Acetonitrile
4.782	MM	469.51291	4.80942e-3	2.25808		2-Nitropropane

Totals : 6.24054

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    5
Acq. Instrument : Teller online                     Location  : Vial 1
Injection Date  : 8/29/2011 3:15:19 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.780	BB	527.45258	3.77972e-3	1.99362		Acrylonitrile
3.903	BB	414.16592	4.78508e-3	1.98182		Acetonitrile
4.783	MM	489.64304	4.80942e-3	2.35490		2-Nitropropane

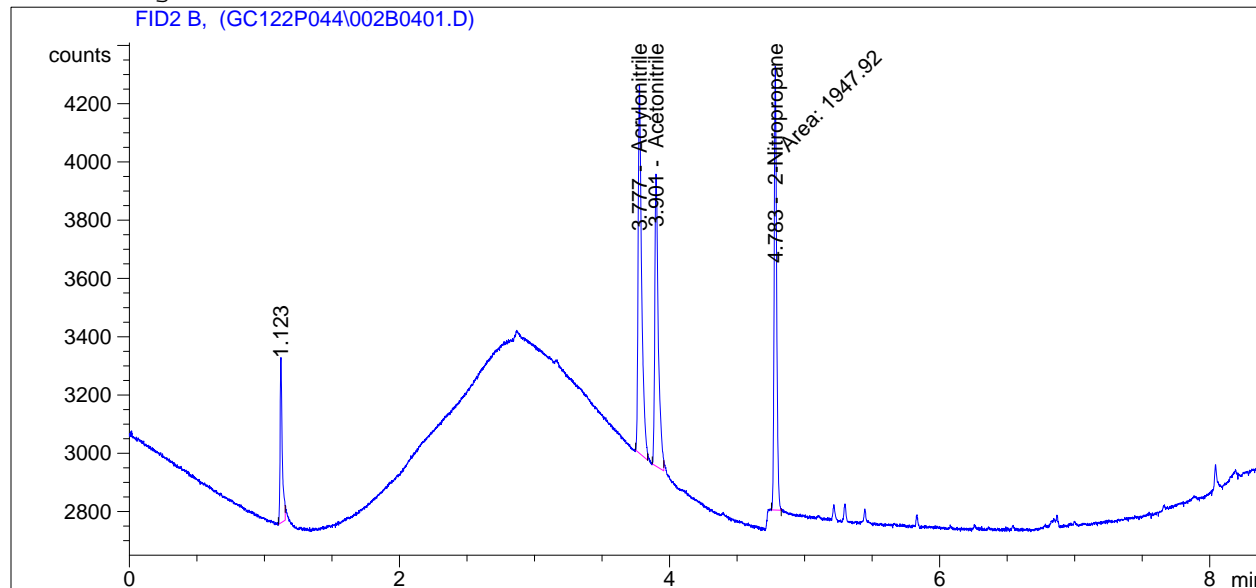
Totals : 6.33034

```
=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : cjt                      Seq. Line :    4
Acq. Instrument : Teller online             Location  : Vial 2
Injection Date  : 8/29/2011 2:04:39 PM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

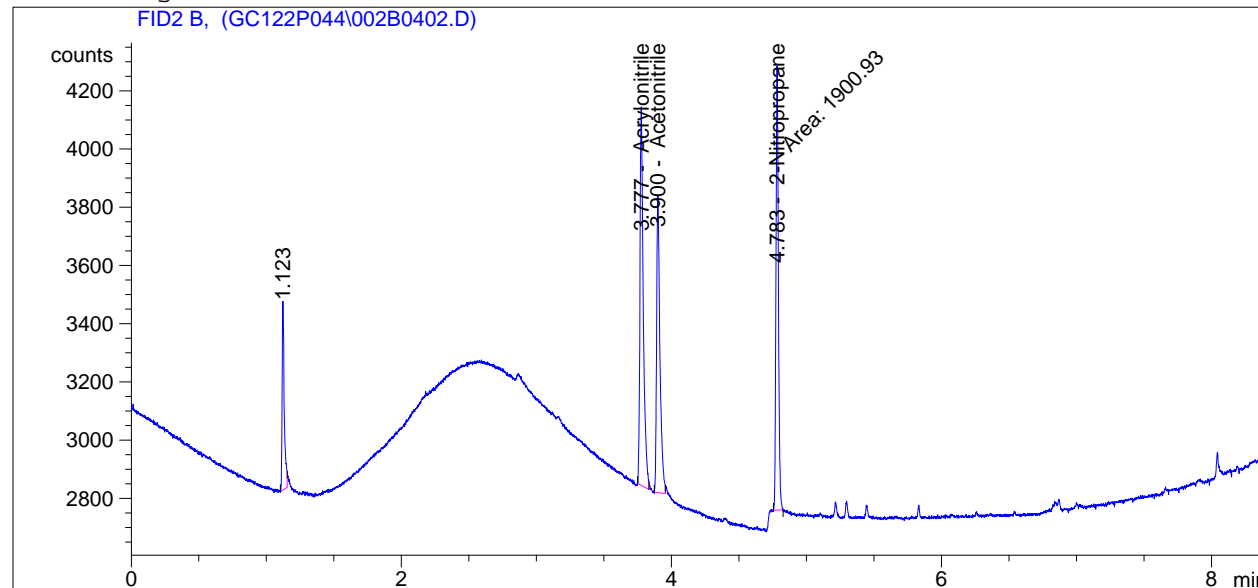
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.777	BB	2296.28271	3.60339e-3	8.27439		Acrylonitrile
3.901	BB	1813.14941	4.44796e-3	8.06481		Acetonitrile
4.783	MM	1947.92468	4.87550e-3	9.49711		2-Nitropropane

Totals : 25.83631

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    4
Acq. Instrument : Teller online                     Location  : Vial 2
Injection Date  : 8/29/2011 2:18:55 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



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=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

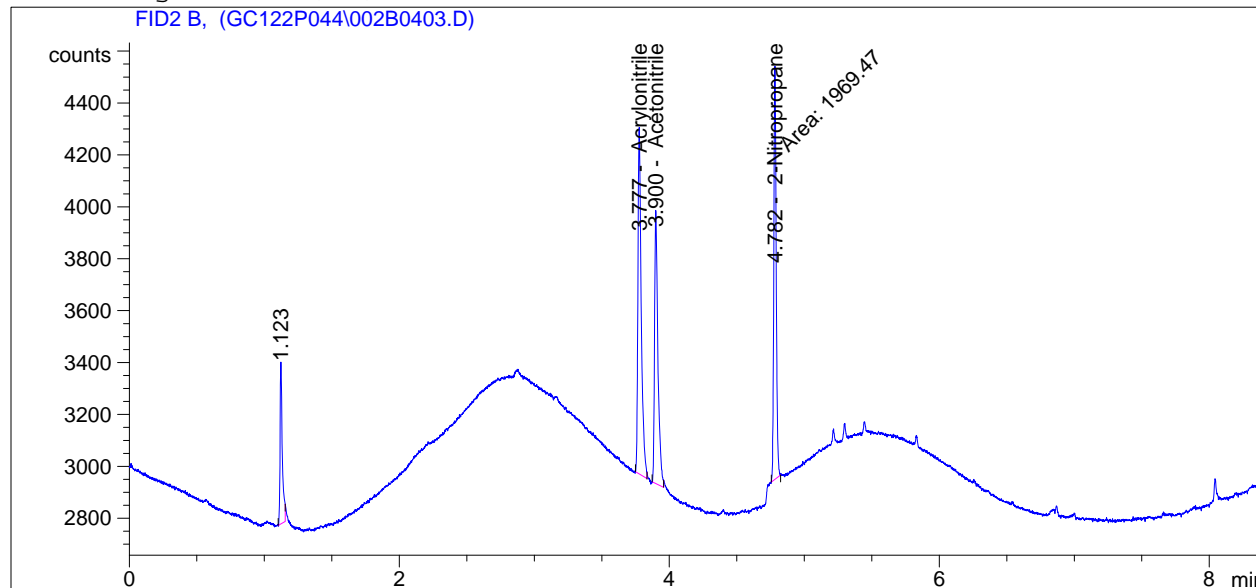
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.777	BB	2215.56396	3.60532e-3	7.98783		Acrylonitrile
3.900	BB	1736.59363	4.45236e-3	7.73194		Acetonitrile
4.783	MM	1900.92737	4.87493e-3	9.26689		2-Nitropropane

Totals : 24.98666

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                      Seq. Line :    4
Acq. Instrument : Teller online             Location  : Vial 2
Injection Date  : 8/29/2011 2:32:51 PM      Inj       :    3
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



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=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

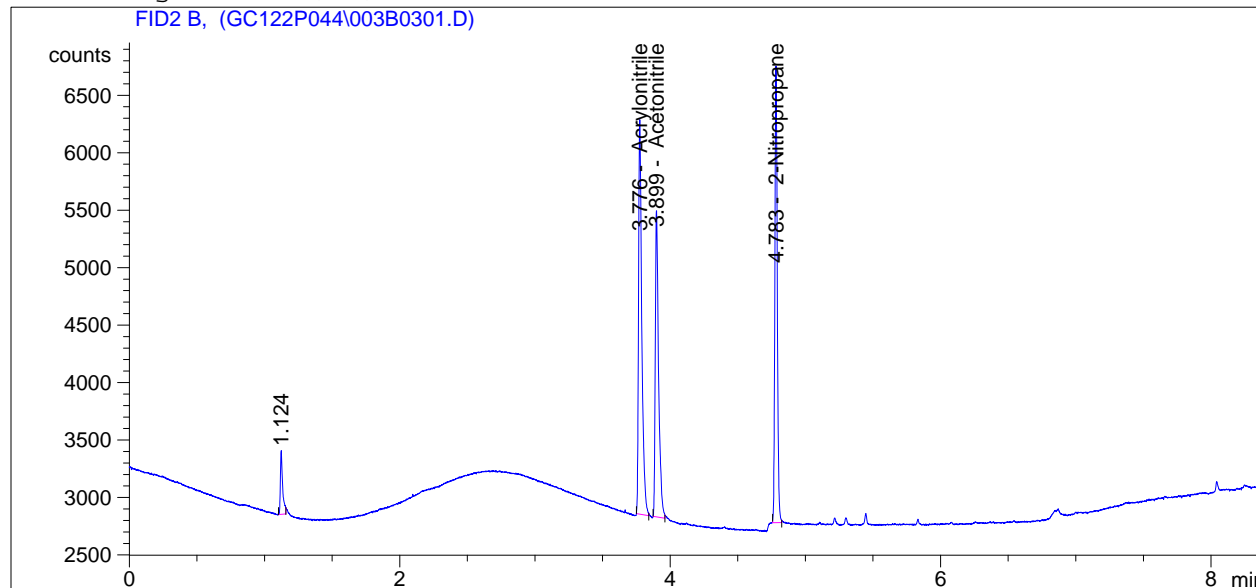
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.777	BB	2294.23608	3.60343e-3	8.26713		Acrylonitrile
3.900	BB	1812.30103	4.44800e-3	8.06112		Acetonitrile
4.782	MM	1969.46838	4.87575e-3	9.60264		2-Nitropropane

Totals : 25.93089

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    3
Acq. Instrument : Teller online                     Location  : Vial 3
Injection Date  : 8/29/2011 1:22:29 PM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

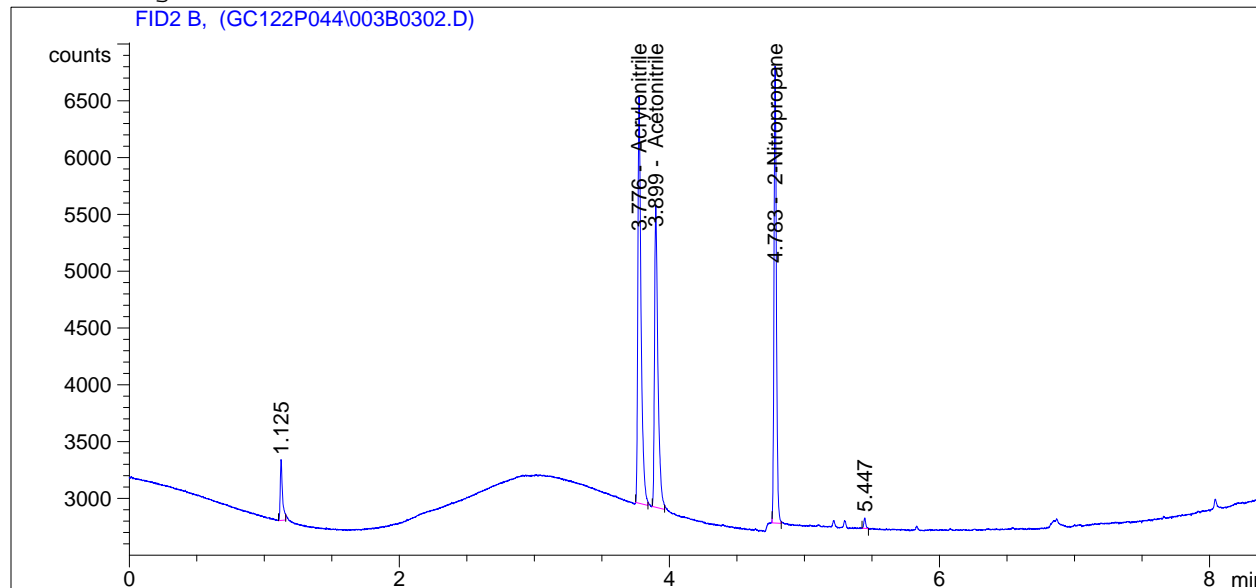
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.776	BB	5709.17920	3.57158e-3	20.39076		Acrylonitrile
3.899	BB	4482.04004	4.38853e-3	19.66956		Acetonitrile
4.783	BB	4921.94873	4.88940e-3	24.06538		2-Nitropropane

Totals : 64.12570

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                      Seq. Line :    3
Acq. Instrument : Teller online             Location  : Vial 3
Injection Date  : 8/29/2011 1:36:16 PM      Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

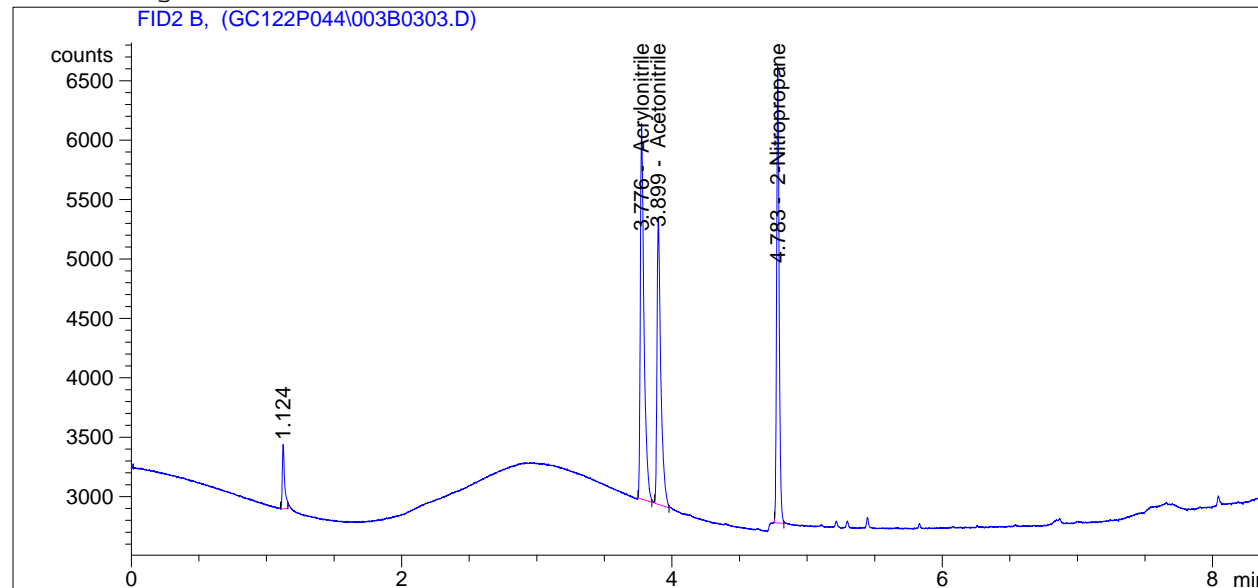
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.776	BB	5888.15381	3.57093e-3	21.02616		Acrylonitrile
3.899	BB	4616.29541	4.38735e-3	20.25332		Acetonitrile
4.783	BB	4952.62451	4.88946e-3	24.21565		2-Nitropropane

Totals : 65.49512

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    3
Acq. Instrument : Teller online                     Location  : Vial 3
Injection Date  : 8/29/2011 1:50:19 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

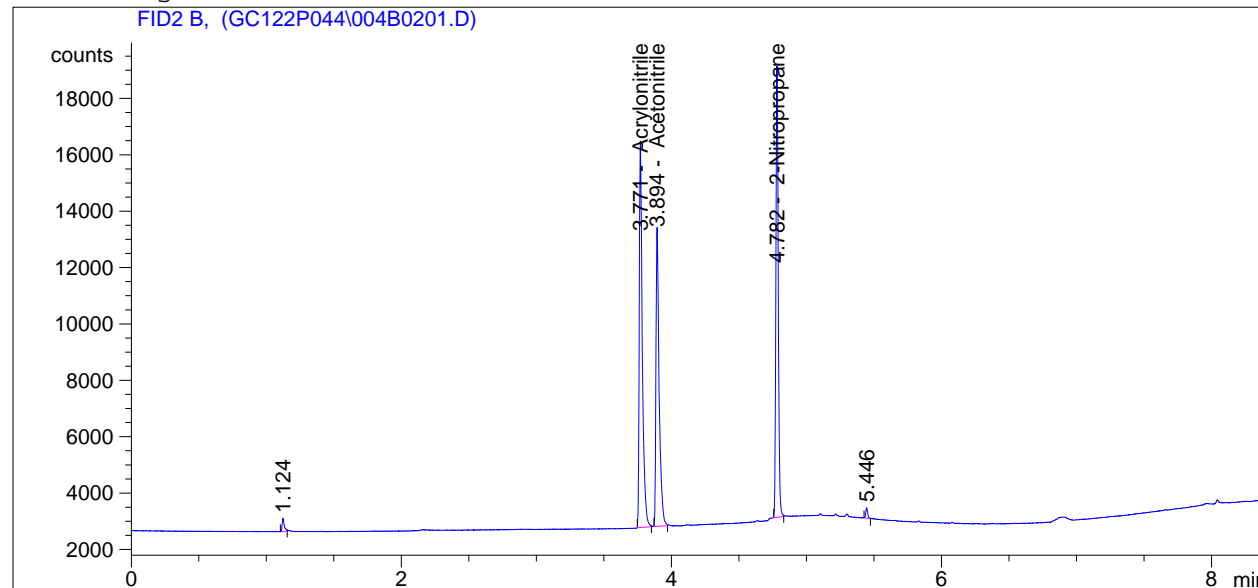
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.776	BB	5962.90527	3.57066e-3	21.29154		Acrylonitrile
3.899	BB	4694.51904	4.38670e-3	20.59345		Acetonitrile
4.783	BB	4966.70508	4.88948e-3	24.28462		2-Nitropropane

Totals : 66.16961

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    2
Acq. Instrument : Teller online                     Location  : Vial 4
Injection Date  : 8/29/2011 12:40:00 PM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

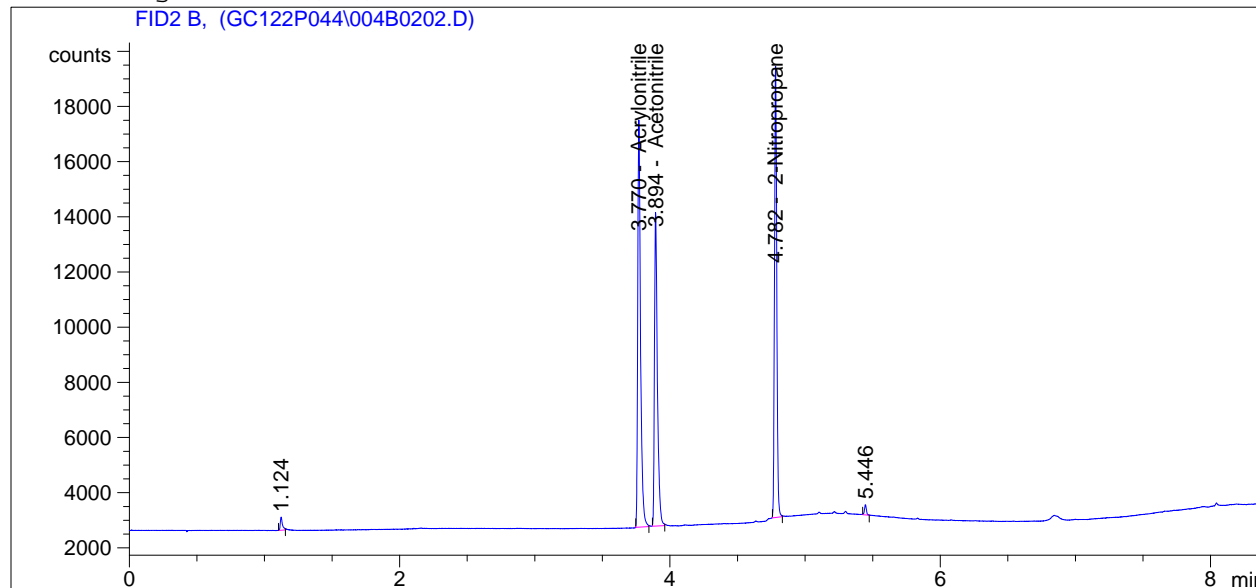
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.771	BB	2.15260e4	3.55585e-3	76.54322		Acrylonitrile
3.894	BB	1.72007e4	4.35867e-3	74.97212		Acetonitrile
4.782	BB	1.93541e4	4.89619e-3	94.76155		2-Nitropropane

Totals : 246.27689

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    2
Acq. Instrument : Teller online                     Location  : Vial 4
Injection Date  : 8/29/2011 12:54:05 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



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=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.770	BB	2.12195e4	3.55593e-3	75.45510		Acrylonitrile
3.894	BB	1.69283e4	4.35884e-3	73.78784		Acetonitrile
4.782	BB	1.91405e4	4.89616e-3	93.71504		2-Nitropropane

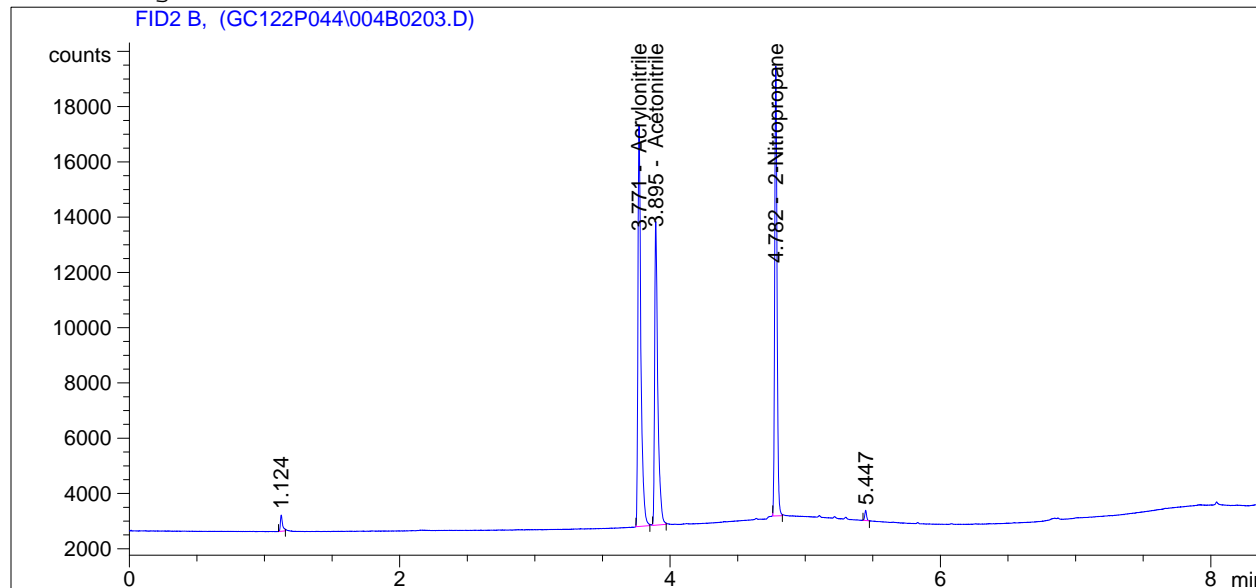
Totals : 242.95798

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=====
*** End of Report ***
=====
```



```
=====
Acq. Operator   : cjt                               Seq. Line :    2
Acq. Instrument : Teller online                     Location  : Vial 4
Injection Date  : 8/29/2011 1:08:26 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

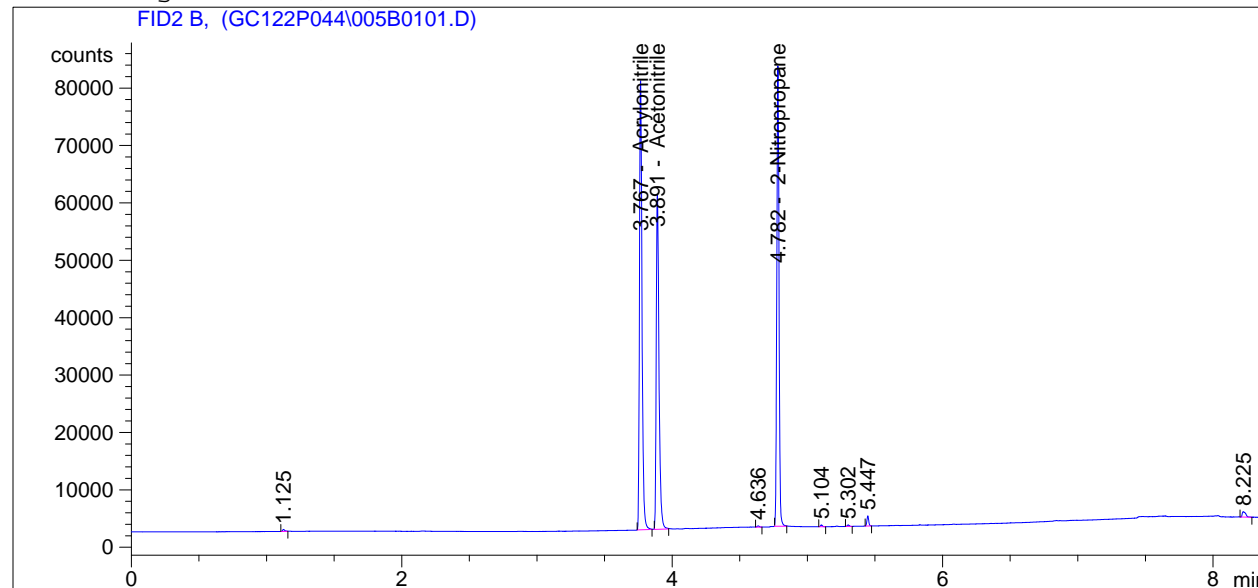
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.771	BB	2.20266e4	3.55572e-3	78.32047		Acrylonitrile
3.895	BB	1.76232e4	4.35842e-3	76.80954		Acetonitrile
4.782	BB	1.97829e4	4.89624e-3	96.86203		2-Nitropropane

Totals : 251.99204

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    1
Acq. Instrument : Teller online                       Location  : Vial 5
Injection Date  : 8/29/2011 11:58:14 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

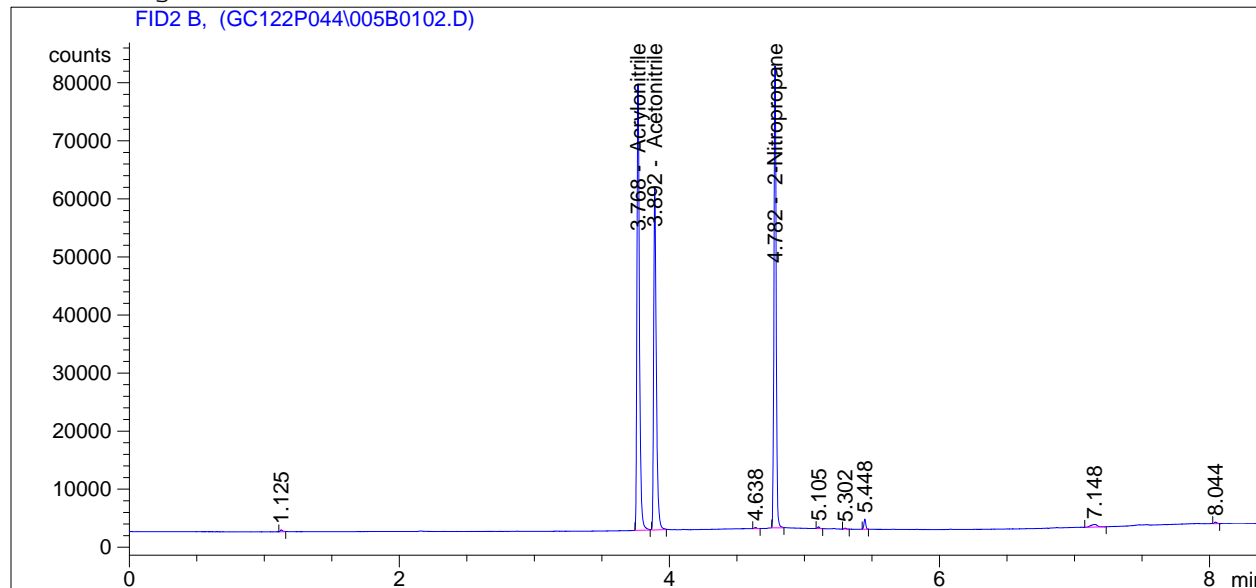
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.767	BB	1.01882e5	3.55137e-3	361.82179		Acrylonitrile
3.891	BB	8.18914e4	4.35036e-3	356.25709		Acetonitrile
4.782	BB	9.08171e4	4.89801e-3	444.82310		2-Nitropropane

Totals : 1162.90198

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    1
Acq. Instrument : Teller online                     Location  : Vial 5
Injection Date  : 8/29/2011 12:12:07 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

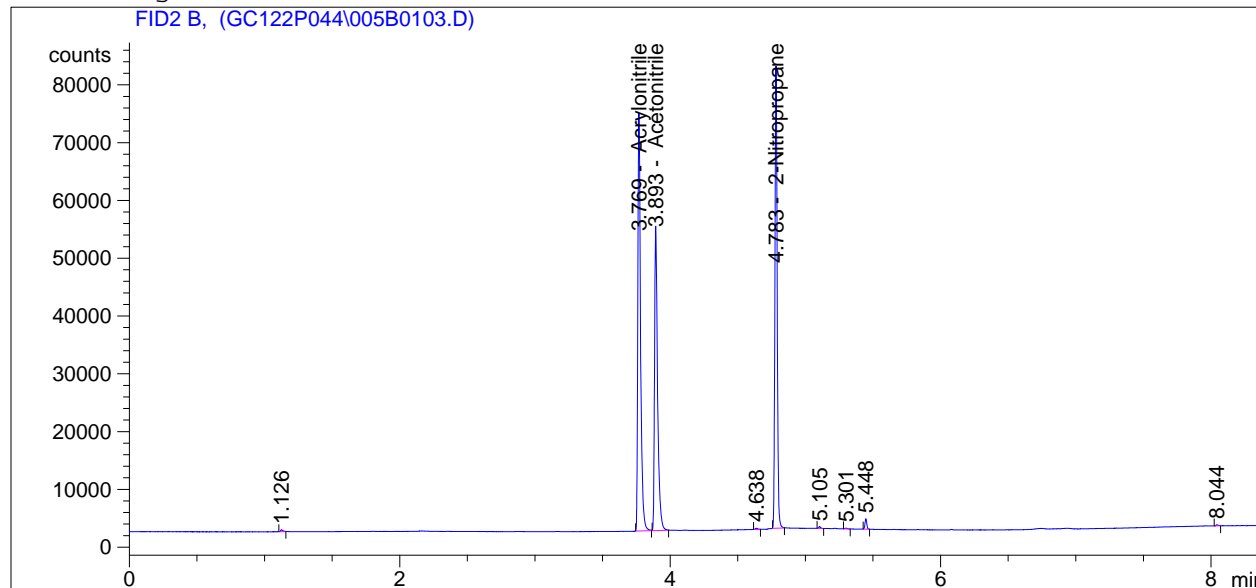
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.768	BB	9.89645e4	3.55141e-3	351.46338		Acrylonitrile
3.892	BB	7.99459e4	4.35042e-3	347.79806		Acetonitrile
4.782	BB	8.90313e4	4.89800e-3	436.07537		2-Nitropropane

Totals : 1135.33681

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    1
Acq. Instrument : Teller online                     Location  : Vial 5
Injection Date  : 8/29/2011 12:26:04 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.769	BB	1.02045e5	3.55137e-3	362.40091		Acrylonitrile
3.893	BB	8.12561e4	4.35038e-3	353.49502		Acetonitrile
4.783	BB	9.27126e4	4.89802e-3	454.10837		2-Nitropropane

Totals : 1170.00430

*** End of Report ***

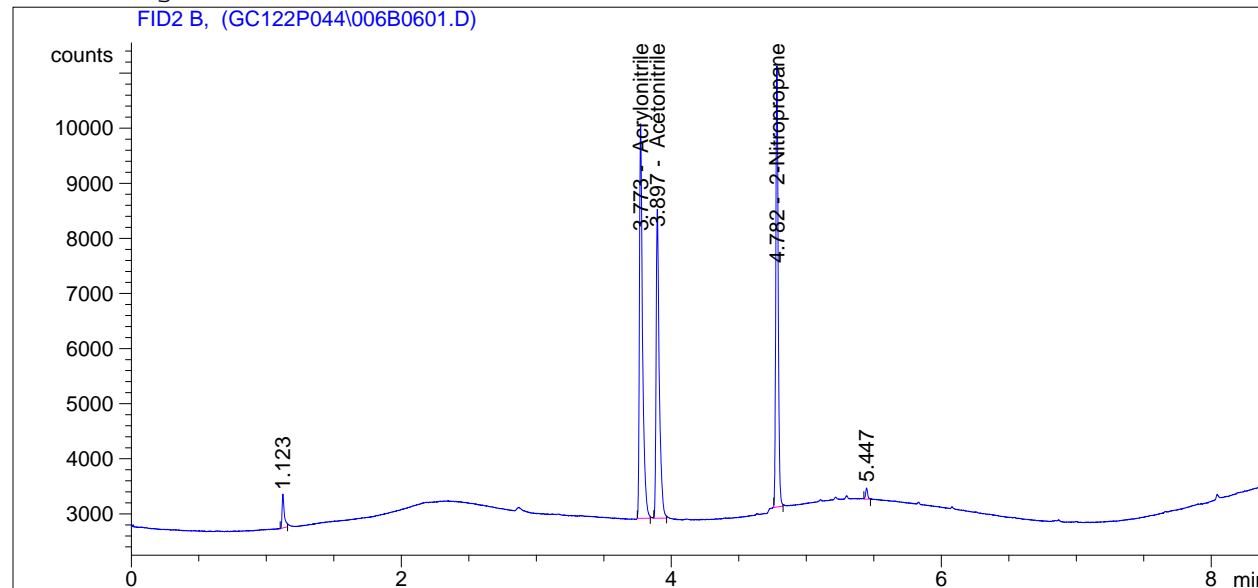
Sample Name: gc122p038 #3ss

```

=====
Acq. Operator   : cjt                               Seq. Line :    6
Acq. Instrument : Teller online                     Location  : Vial 6
Injection Date  : 8/29/2011 3:29:12 PM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.773	BB	1.14285e4	3.56086e-3	40.69547		Acrylonitrile
3.897	BB	9064.73242	4.36812e-3	39.59580		Acetonitrile
4.782	BB	9823.92285	4.89394e-3	48.07772		2-Nitropropane

Totals : 128.36900

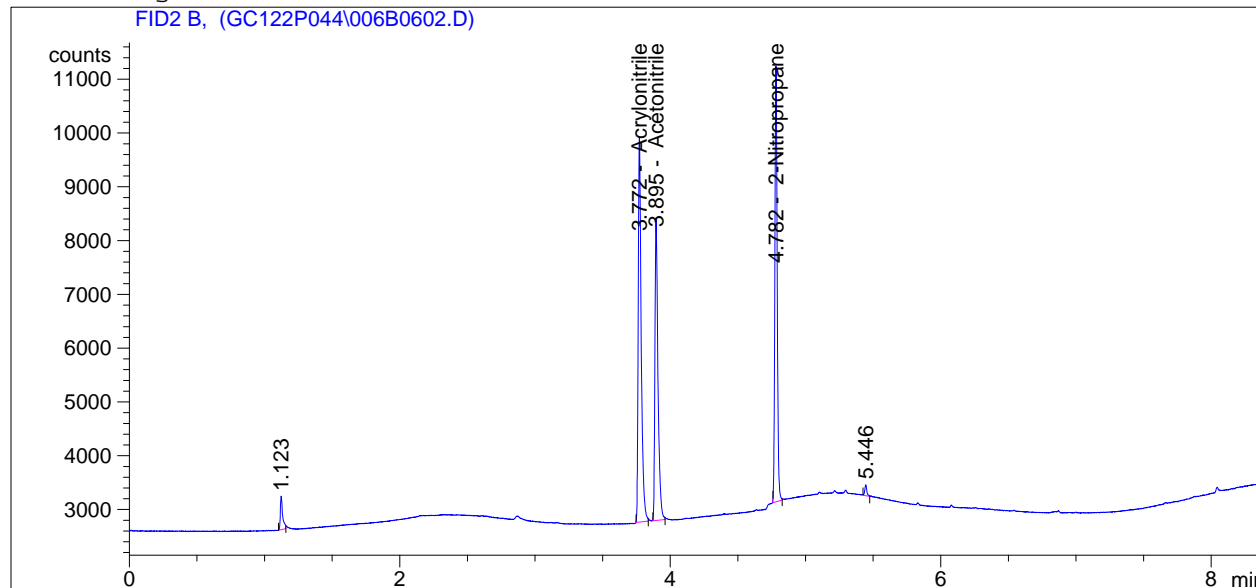
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : cjt                               Seq. Line :    6
Acq. Instrument : Teller online                     Location  : Vial 6
Injection Date  : 8/29/2011 3:43:11 PM              Inj       :    2
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

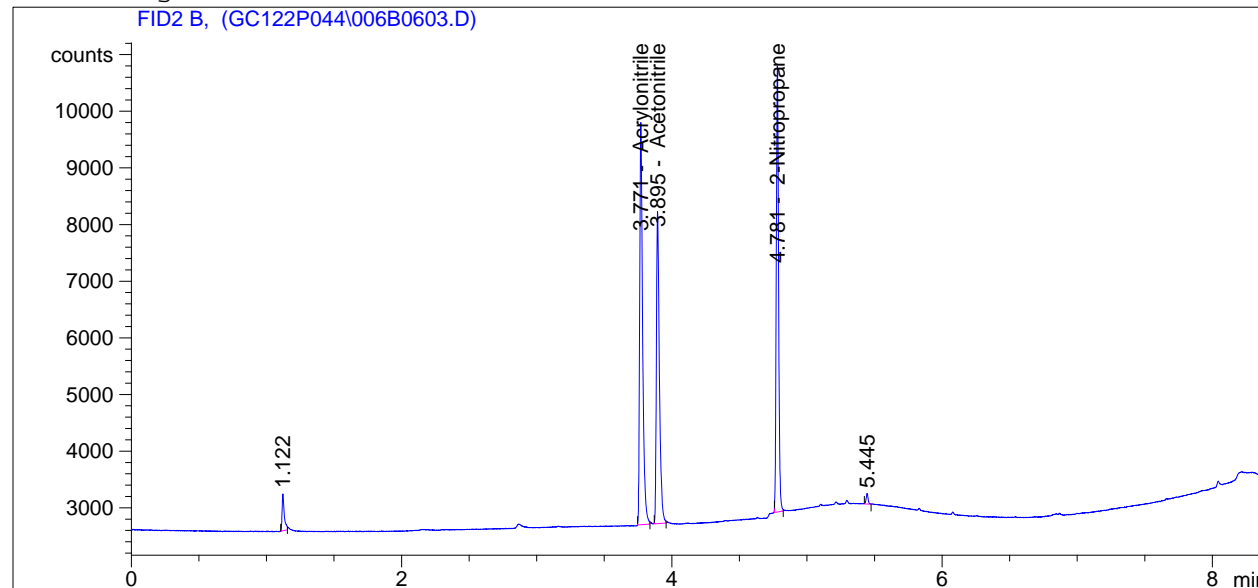
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.772	BB	1.09727e4	3.56131e-3	39.07731		Acrylonitrile
3.895	BB	8723.32617	4.36890e-3	38.11132		Acetonitrile
4.782	BB	9757.35449	4.89391e-3	47.75164		2-Nitropropane

Totals : 124.94027

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :    6
Acq. Instrument : Teller online                     Location  : Vial 6
Injection Date  : 8/29/2011 3:57:06 PM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

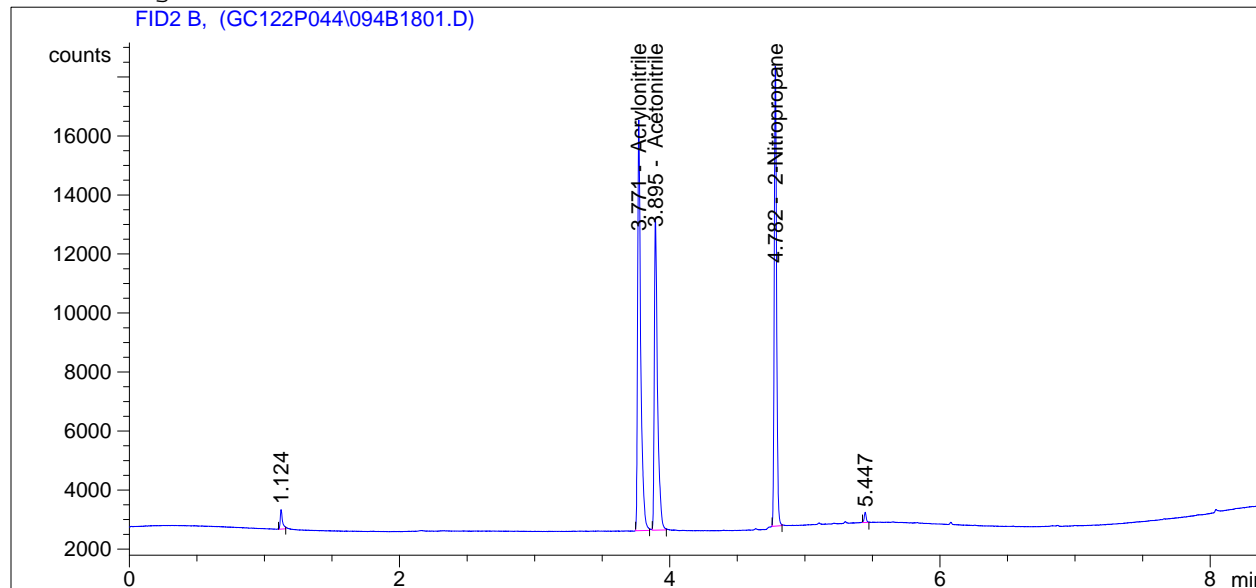
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.771	BB	1.07120e4	3.56158e-3	38.15168		Acrylonitrile
3.895	BB	8476.67383	4.36950e-3	37.03884		Acetonitrile
4.781	BB	9332.01074	4.89370e-3	45.66809		2-Nitropropane

Totals : 120.85861

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*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :   18
Acq. Instrument : Teller online                     Location  : Vial 94
Injection Date  : 8/29/2011 11:53:19 PM             Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.771	BB	2.19700e4	3.55573e-3	78.11954		Acrylonitrile
3.895	BB	1.73292e4	4.35860e-3	75.53116		Acetonitrile
4.782	BB	1.89129e4	4.89614e-3	92.60009		2-Nitropropane

Totals : 246.25079

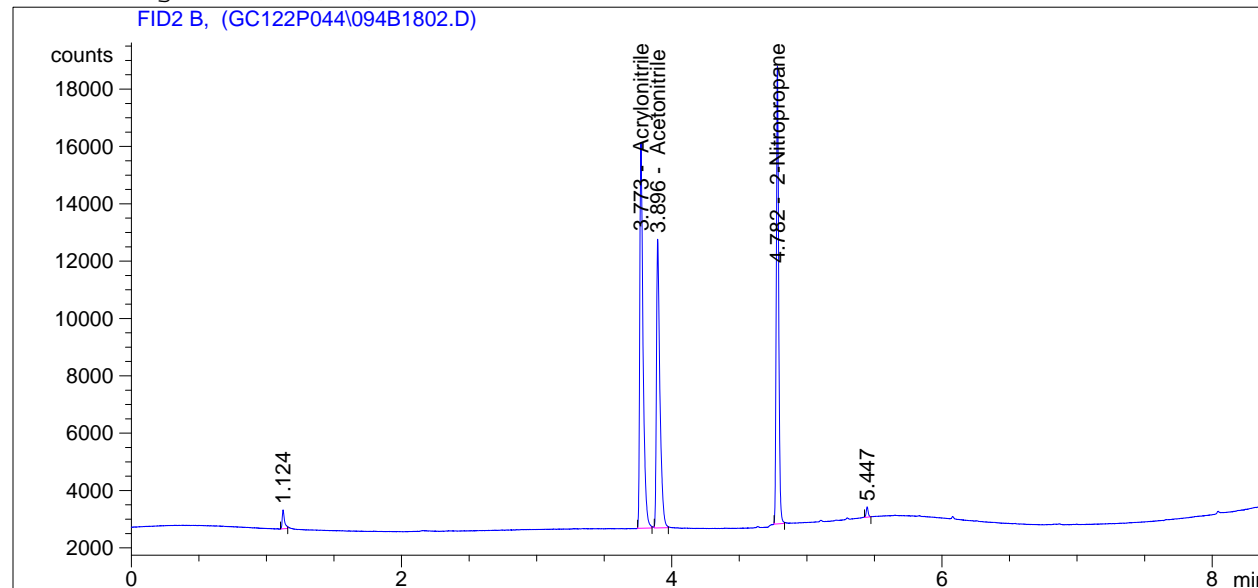
```
=====
*** End of Report ***
=====
```


Sample Name: gc122p038 #4

```

=====
Acq. Operator   : cjt                      Seq. Line :   18
Acq. Instrument : Teller online             Location  : Vial 94
Injection Date  : 8/30/2011 12:07:17 AM     Inj       :    2
                                           Inj Volume: 1 µl
Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.773	BB	2.28313e4	3.55553e-3	81.17723		Acrylonitrile
3.896	BB	1.78501e4	4.35829e-3	77.79605		Acetonitrile
4.782	BB	1.95810e4	4.89622e-3	95.87291		2-Nitropropane

Totals : 254.84619

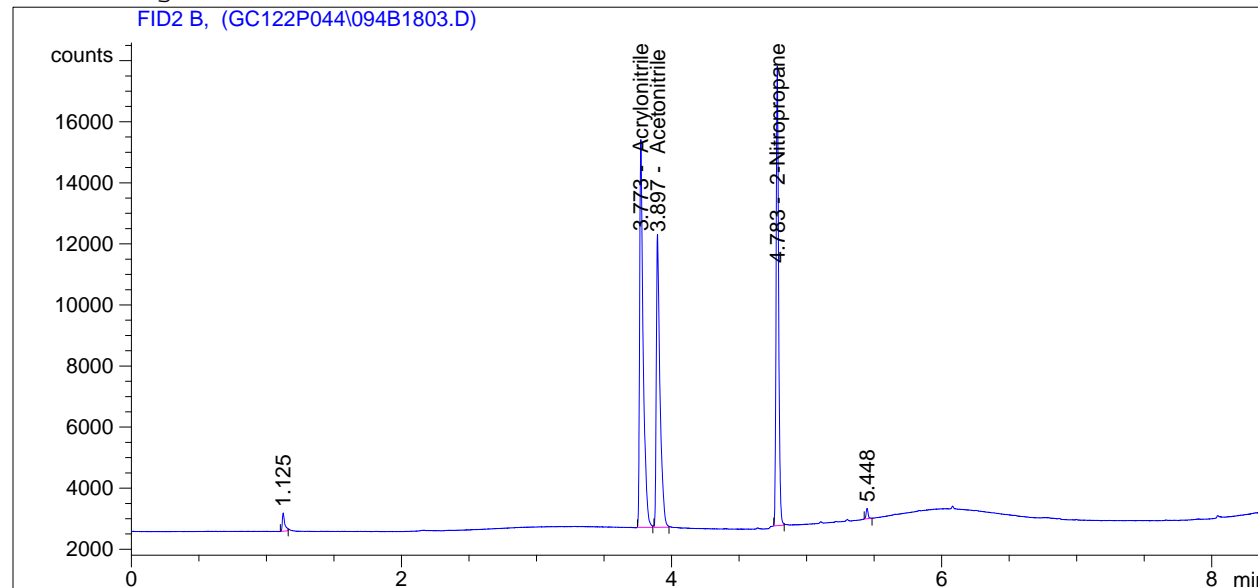
```

=====
*** End of Report ***
=====

```

```
=====
Acq. Operator   : cjt                               Seq. Line :   18
Acq. Instrument : Teller online                     Location  : Vial 94
Injection Date  : 8/30/2011 12:21:09 AM              Inj       :    3
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

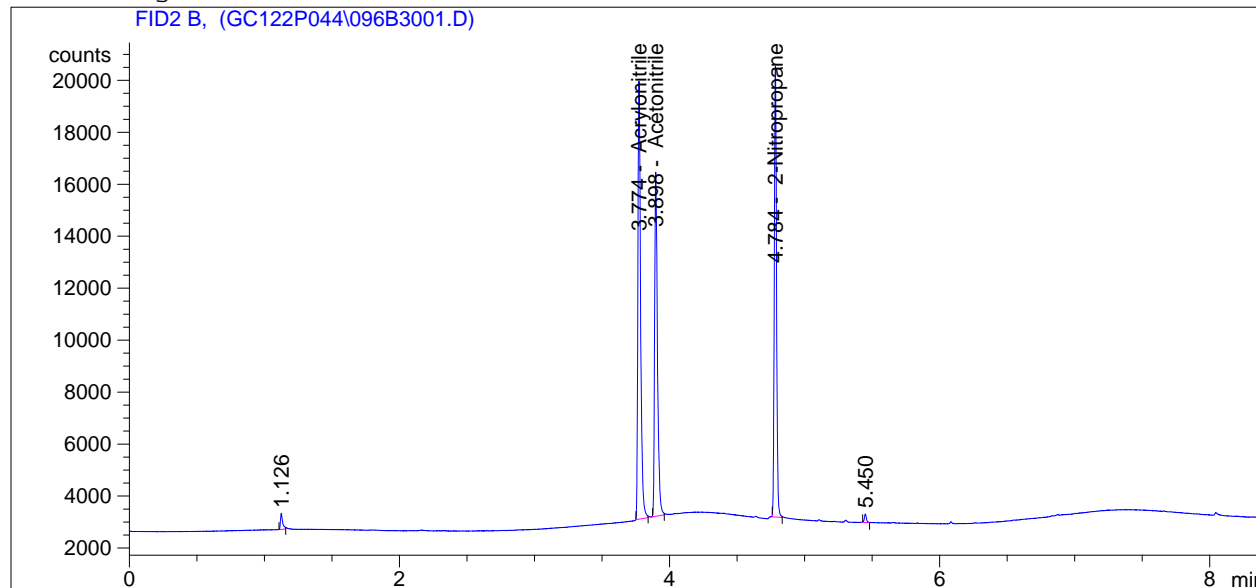
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.773	BB	2.29820e4	3.55549e-3	81.71210		Acrylonitrile
3.897	BB	1.80354e4	4.35819e-3	78.60147		Acetonitrile
4.783	BB	1.93895e4	4.89619e-3	94.93489		2-Nitropropane

Totals : 255.24846

```
=====
*** End of Report ***
=====
```

```
=====
Acq. Operator   : cjt                               Seq. Line :   30
Acq. Instrument : Teller online                     Location  : Vial 96
Injection Date  : 8/30/2011 9:55:01 AM              Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Wednesday, August 31, 2011 12:45:38 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.774	BB	2.36033e4	3.55535e-3	83.91784		Acrylonitrile
3.898	BB	1.92365e4	4.35756e-3	83.82435		Acetonitrile
4.784	BB	2.00455e4	4.89627e-3	98.14829		2-Nitropropane

Totals : 265.89048

```
=====
*** End of Report ***
=====
```

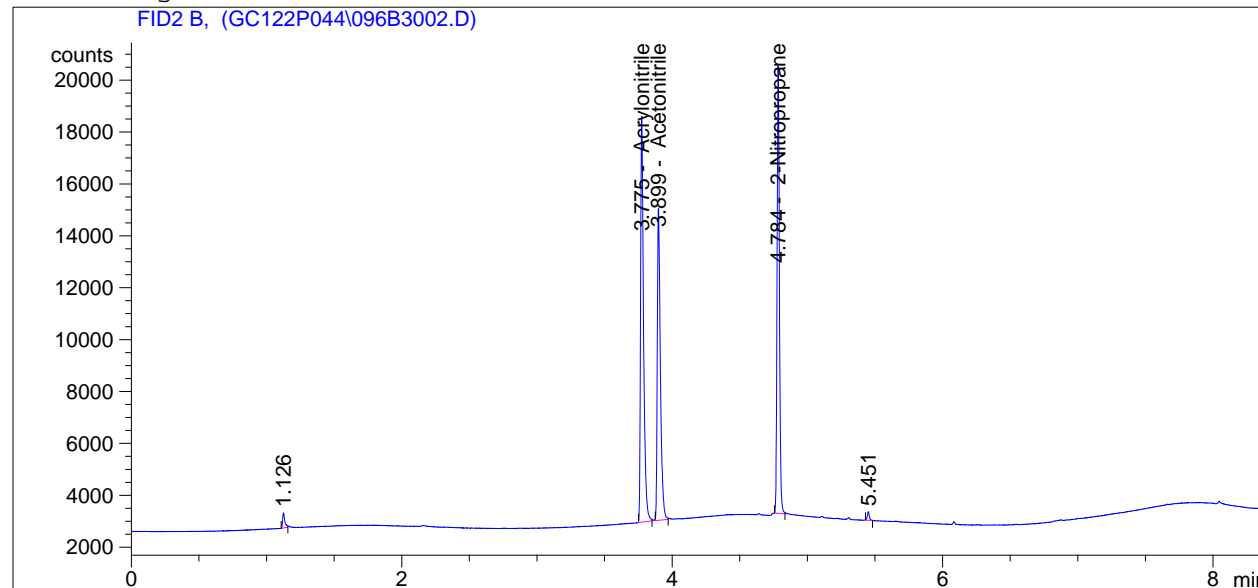
Sample Name: gc122p038 #4

```

=====
Acq. Operator   : cjt                      Seq. Line :   30
Acq. Instrument : Teller online             Location  : Vial 96
Injection Date  : 8/30/2011 10:08:56 AM     Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.775	BB	2.37496e4	3.55532e-3	84.43752		Acrylonitrile
3.899	BB	1.90682e4	4.35764e-3	83.09222		Acetonitrile
4.784	BB	2.06432e4	4.89633e-3	101.07608		2-Nitropropane

Totals : 268.60583

```

=====
*** End of Report ***
=====

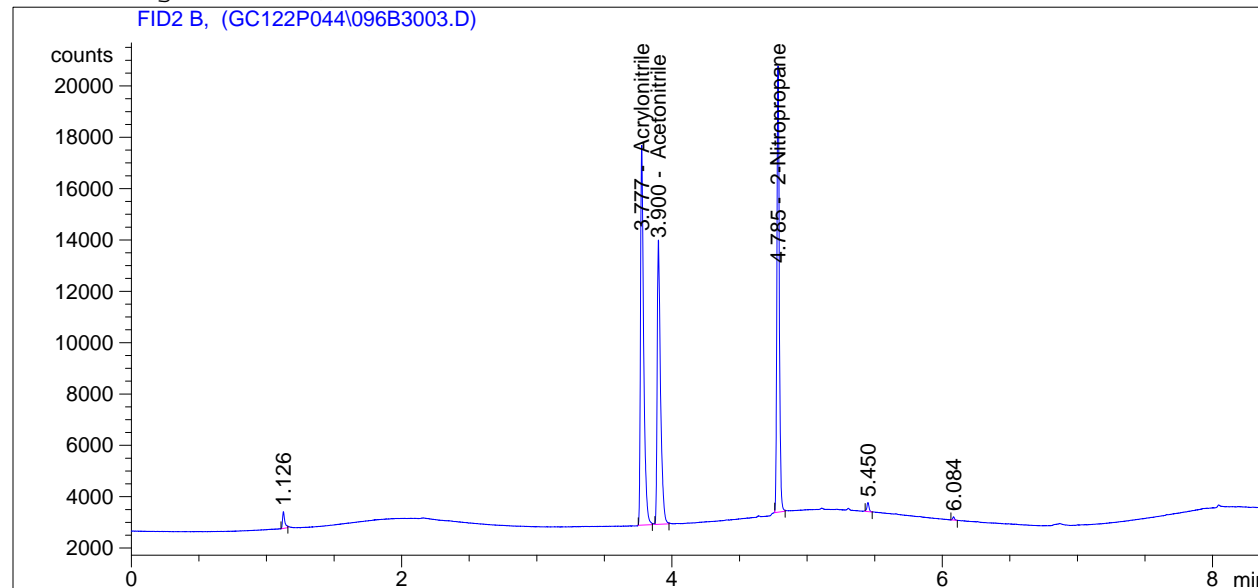
```

Sample Name: gc122p038 #4

```

=====
Acq. Operator   : cjt                      Seq. Line :   30
Acq. Instrument : Teller online             Location  : Vial 96
Injection Date  : 8/30/2011 10:22:41 AM     Inj       :    3
                                           Inj Volume: 1 µl
Sequence File   : G:\GC2011Q3\TELLER\SEQUENCE\GC122P044.S
Acq. Method     : G:\GC2011Q3\TELLER\METHODS\GC122P042.M
Last changed    : 8/25/2011 10:14:43 AM by cjt
Analysis Method : G:\GC2011Q3\TELLER\METHODS\GC122P044.M
Last changed    : 8/31/2011 12:46:23 PM
=====

```



```

=====
                        External Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      Wednesday, August 31, 2011 12:45:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ug/mL]	Grp	Name
3.777	BB	2.40992e4	3.55524e-3	85.67861		Acrylonitrile
3.900	BB	1.90283e4	4.35766e-3	82.91901		Acetonitrile
4.785	BB	2.13993e4	4.89641e-3	104.77974		2-Nitropropane

Totals : 273.37736

```

=====
*** End of Report ***
=====

```

OVEN\DET

Runtime (min): 8.4

Zone Temperatures:

	State	Setpoint
Inl. A	ON	275 C.
Inl. B	ON	220 C.
Det. A	ON	300 C.
Det. B	ON	300 C.
Aux.	OFF	50 C.

Oven Zone:

Oven max	260 C.
Equib Time	0.50 Min.
Oven State	ON
Cryo State	OFF
Ambient	40 C.
Cryo Blast	OFF

Oven Program:

		Setpoint		
		Initial Temp.:	40 C.	
		Initial Time:	2.00 Min.	
Level	Rate (C/min.)	Final Temp.(C)	Final Time (min)	
1	25.0	200	0.00	

InletA Pressure Program Information

Constant Flow:	On
Pressure:	18.3 psi
Temperature:	40 C

Pressure Program:

		Setpoint		
		Initial Pres.:	50.0 psi	
		Initial Time:	650.00 min.	
Level	Rate (psi/min.)	Final Pres.(psi)	Final Time (min)	
1	0.00	0.0	0.00	
2(A)	0.00	0.0	0.00	
3(B)	0.00	0.0	0.00	
Total Program Time:		650.00		

GC Pressure Units:psi

Entered Values:

Column Length:	20.00	m.
Column Diameter:	0.180	mm.
Gas:	H2	
Vacuum Comp:	Off	

InletB Pressure Program Information

Constant Flow:	On
Pressure:	5.7 psi

Modified on: 8/25/2011 at 10:14:43 AM

Temperature: 40 C.

Pressure Program:

Setpoint

Initial Pres.: 50.0 psi

Initial Time: 650.00 min.

Level	Rate (psi/min.)	Final Pres.(psi)	Final Time (min)
1	0.00	0.0	0.00
2(A)	0.00	0.0	0.00
3(B)	0.00	0.0	0.00

Total Program Time: 650.00

GC Pressure Units:psi

Entered Values:

Column Length: 30.00 m.

Column Diameter: 0.320 mm.

Gas: H2

Vacuum Comp: Off

Inlet A Packed Column Information

Equation:---

Pressure-Flow Relationship:

	Pres.	Flow(psi)	(ml/min)
1	---	0.0	
2	---	0.0	
3	---	0.0	

Last pressure calibration:---

Packed Column Flow Setting (ml/min):0.0

Inlet B Packed Column Information

Equation:---

Pressure-Flow Relationship:

	Pres.	Flow(psi)	(ml/min)
1	---	0.0	
2	---	0.0	
3	---	0.0	

Last pressure calibration:---

Packed Column Flow Setting (ml/min):0.0

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	On	0.00	30.00
B (Valve 4)	On	0.00	30.00

A - Splitless Injection: No

B - Splitless Injection: No

Valves/Relays Information

Initial Setpoints:

5890 Valves:

Valve 1: Off

Valve 2: Off

Pace Analytical
FSD 1108-200

Valve 3 (Purge A): On

FHR Pine Bend LLC
Page B-1479 of 1576

Detector Information

Detector A:

Type	FID
State	ON

Detector B:

Type	FID
State	ON

Signal Information

Save Data:

Signal 2

Signal 1:

Signal	Det. A
Data rate	20.000 Hz.
Peakwidth	0.013 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Signal 2:

Signal	Det. B
Data rate	20.000 Hz.
Peakwidth	0.013 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 5	gc122p038 #5	GC122P042	3	Sample
2	Vial 4	gc122p038 #4	GC122P042	3	Sample
3	Vial 3	gc122p038 #3	GC122P042	3	Sample
4	Vial 2	gc122p038 #2	GC122P042	3	Sample
5	Vial 1	gc122p038 #1	GC122P042	3	Sample
6	Vial 6	gc122p038 #3ss	GC122P042	3	Sample
7	Vial 11	M18 AQ LCS 1 0711-81	GC122P042	3	Sample
8	Vial 12	M18 AQ LCS 2 0711-81	GC122P042	3	Sample
9	Vial 13	M18 H2O RB Raff. 0711-81	GC122P042	3	Sample
10	Vial 14	M18 T0R0 UnSpkd Cond. FB Raff. 0711-81	GC122P042	3	Sample
11	Vial 15	M18 T1R1 UnSpkd Cond. Raff. 0711-81	GC122P042	3	Sample
12	Vial 16	M18 T1R1 Spkd Cond. Raff. 0711-81	GC122P042	3	Sample
13	Vial 17	M18 T1R1 Spkd Cond. Raff. LD 0711-81	GC122P042	3	Sample
14	Vial 18	M18 T1R2 UnSpkd Cond. Raff. 0711-81	GC122P042	3	Sample
15	Vial 19	M18 T1R2 Spkd Cond. Raff. 0711-81	GC122P042	3	Sample
16	Vial 20	M18 T1R3 UnSpkd Cond. Raff. 0711-81	GC122P042	3	Sample
17	Vial 93	gc122p038 #3	GC122P042	3	Sample
18	Vial 94	gc122p038 #4	GC122P042	3	Sample
19	Vial 21	M18 T1R3 Spkd Cond. Raff. 0711-81	GC122P042	3	Sample
20	Vial 22	M18 H2O RB Raff. 0611-161	GC122P042	3	Sample
21	Vial 23	M18 R1 UnSpkd Cond. Raff. 0611-161	GC122P042	3	Sample
22	Vial 24	M18 R1 Spkd Cond. Raff. 0611-161	GC122P042	3	Sample
23	Vial 25	M18 R1 Spkd Cond. Raff. LD 0611-161	GC122P042	3	Sample
24	Vial 26	M18 R2 UnSpkd Cond. Raff. 0611-161	GC122P042	3	Sample
25	Vial 27	M18 R2 Spkd Cond. Raff. 0611-161	GC122P042	3	Sample
26	Vial 28	M18 R3 UnSpkd Cond. Raff. 0611-161	GC122P042	3	Sample
27	Vial 29	M18 R3 Spkd Cond. Raff. 0611-161	GC122P042	3	Sample
28	Vial 30	M18 H2O RB Raff. 0811-25	GC122P042	3	Sample
29	Vial 95	gc122p038 #3	GC122P042	3	Sample
30	Vial 96	gc122p038 #4	GC122P042	3	Sample
31	Vial 31	509 Sample 1 Tube Raff. 0811-25	GC122P042	3	Sample
32	Vial 32	509 Sample 1 Tube Raff. LD 0811-25	GC122P042	3	Sample
33	Vial 33	512 Sample 1 Tube Raff. 0811-25	GC122P042	3	Sample
34	Vial 34	515 Sample 1 Tube Raff. 0811-25	GC122P042	3	Sample
35	Vial 35	BFW Sample 1 Tube Raff. 0811-25	GC122P042	3	Sample
36	Vial 83	gc122p038 #3	GC122P042	3	Sample
37	Vial 84	gc122p038 #4	GC122P042	3	Sample
38	Vial 85	gc122p038 #5	GC122P042	3	Sample
39	Vial 82	gc122p038 #2	GC122P042	3	Sample
40	Vial 81	gc122p038 #1	GC122P042	3	Sample

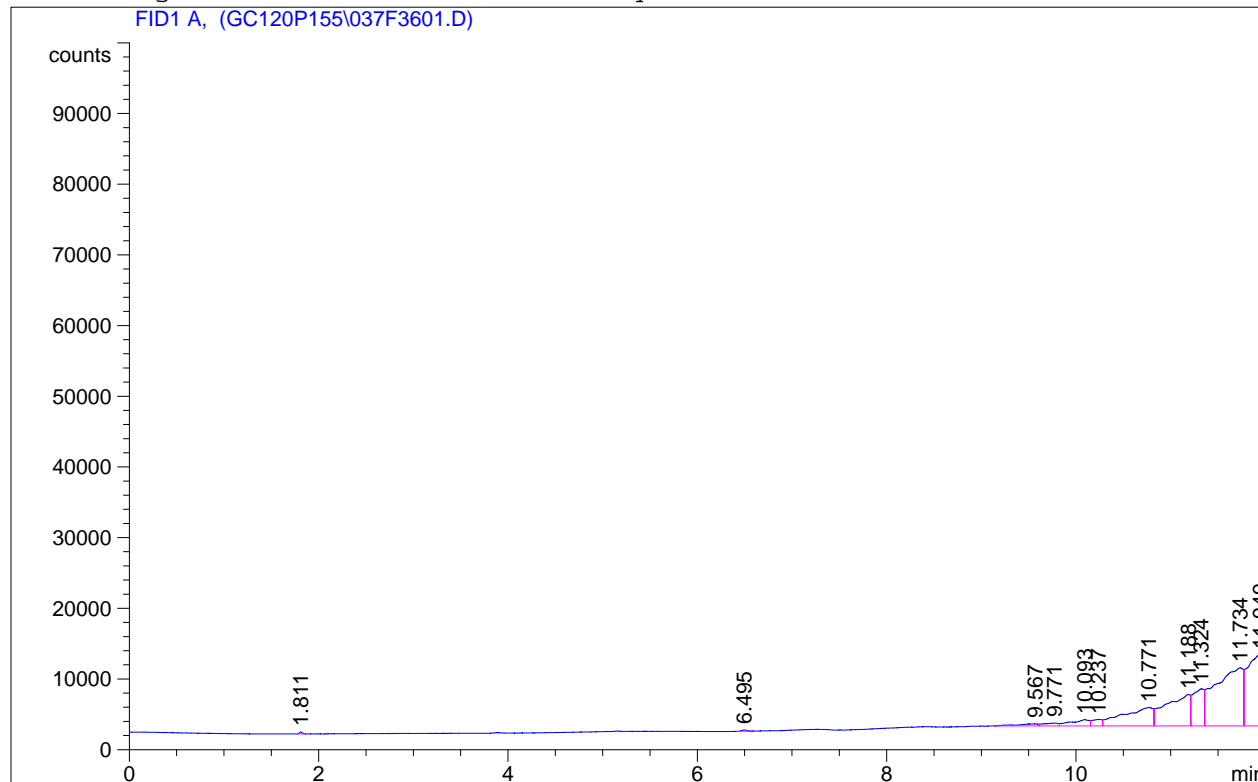
Sample Chromatograms

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   36
Acq. Instrument : Penn online                  Location  : Vial 37
Injection Date  : 8/30/2011 11:50:01 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-		Methanol

Totals : 0.00000

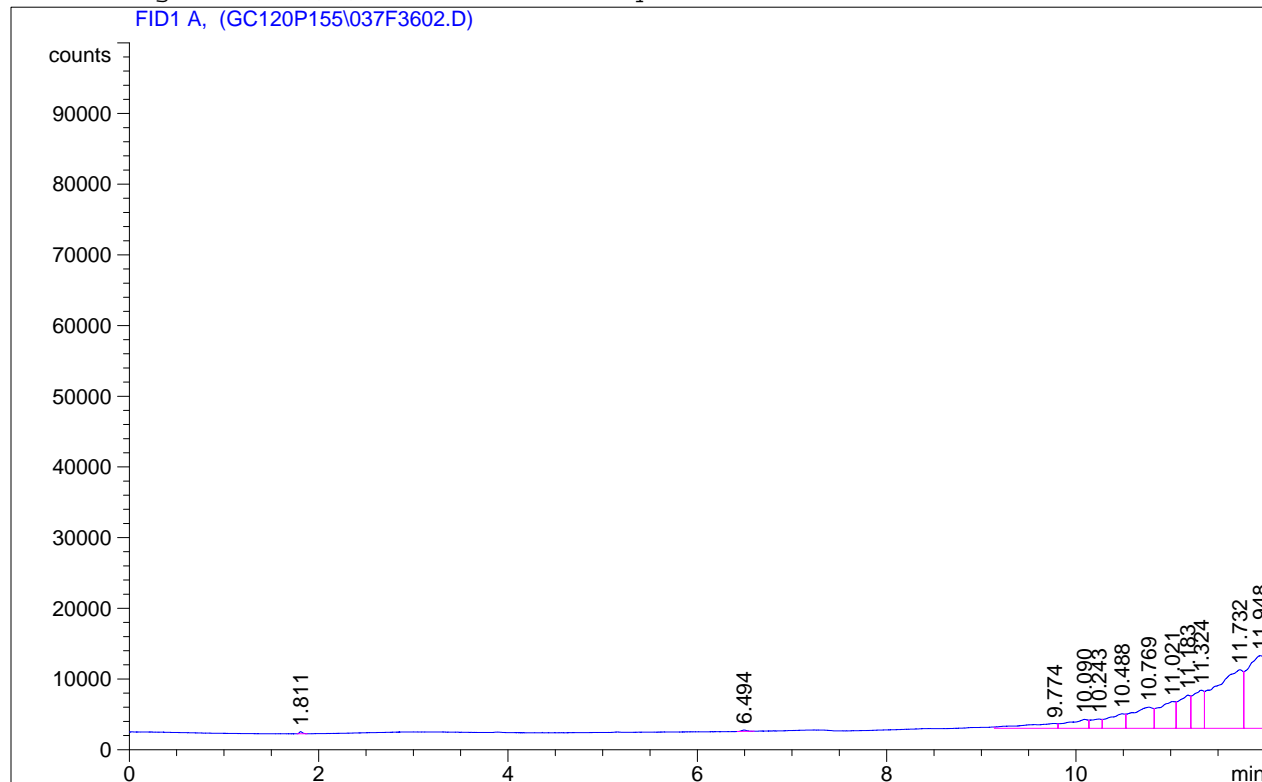
Signal 2: FID2 B, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   36
Acq. Instrument : Penn online                  Location  : Vial 37
Injection Date  : 8/30/2011 12:12:32 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

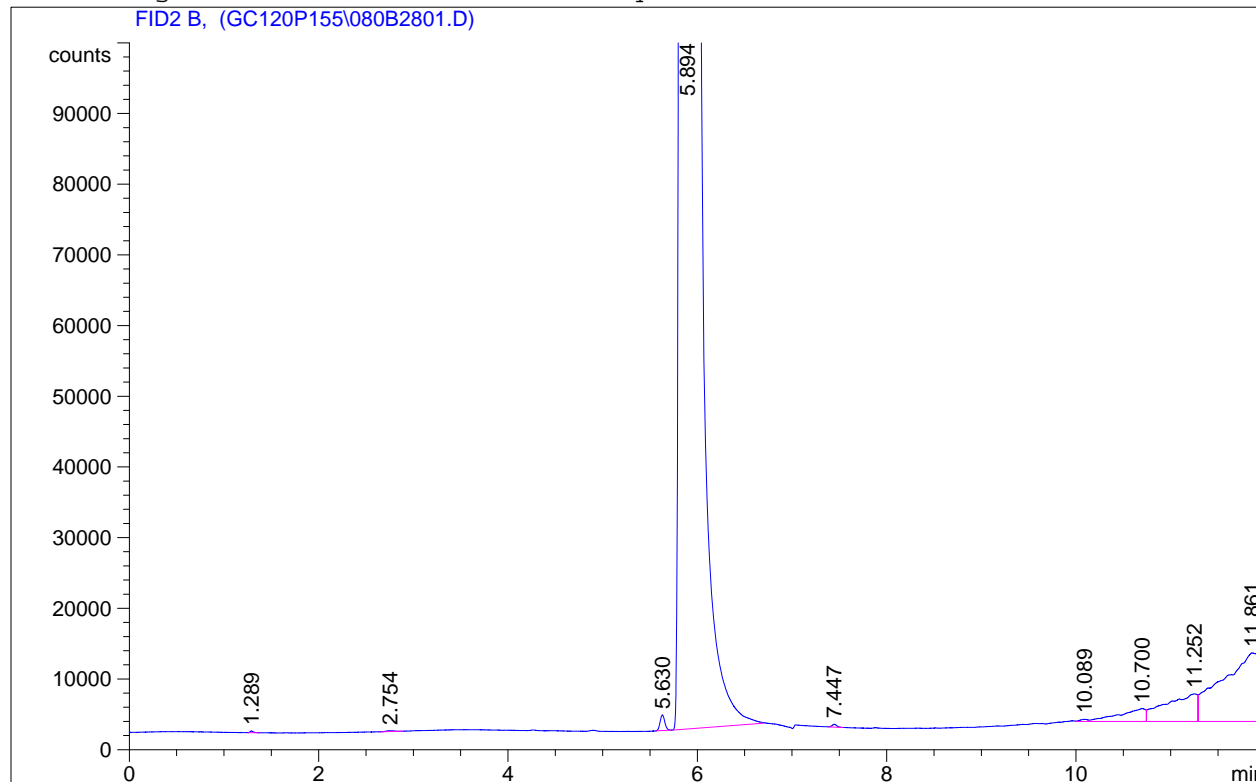
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-		Methanol

Totals : 0.00000

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   28
Acq. Instrument : Penn online                  Location  : Vial 80
Injection Date  : 8/30/2011 5:46:43 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

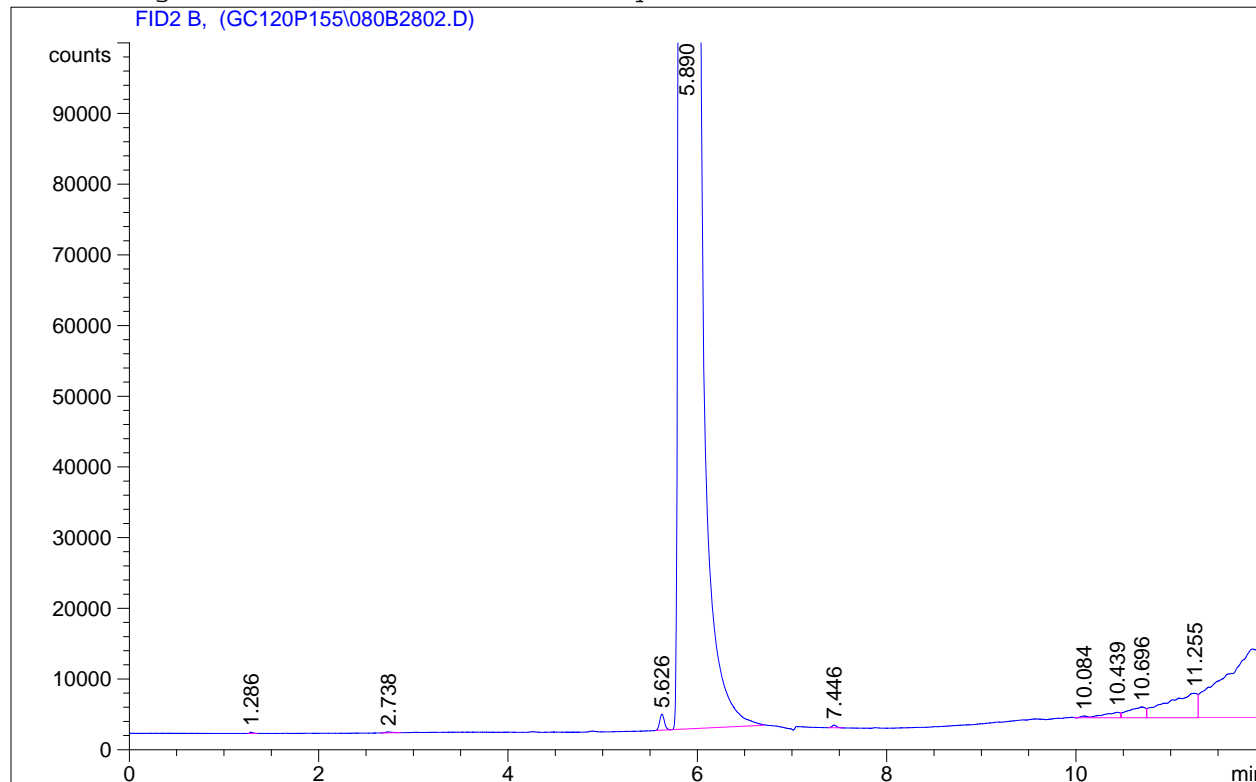
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   28
Acq. Instrument : Penn online                  Location  : Vial 80
Injection Date  : 8/30/2011 6:09:26 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

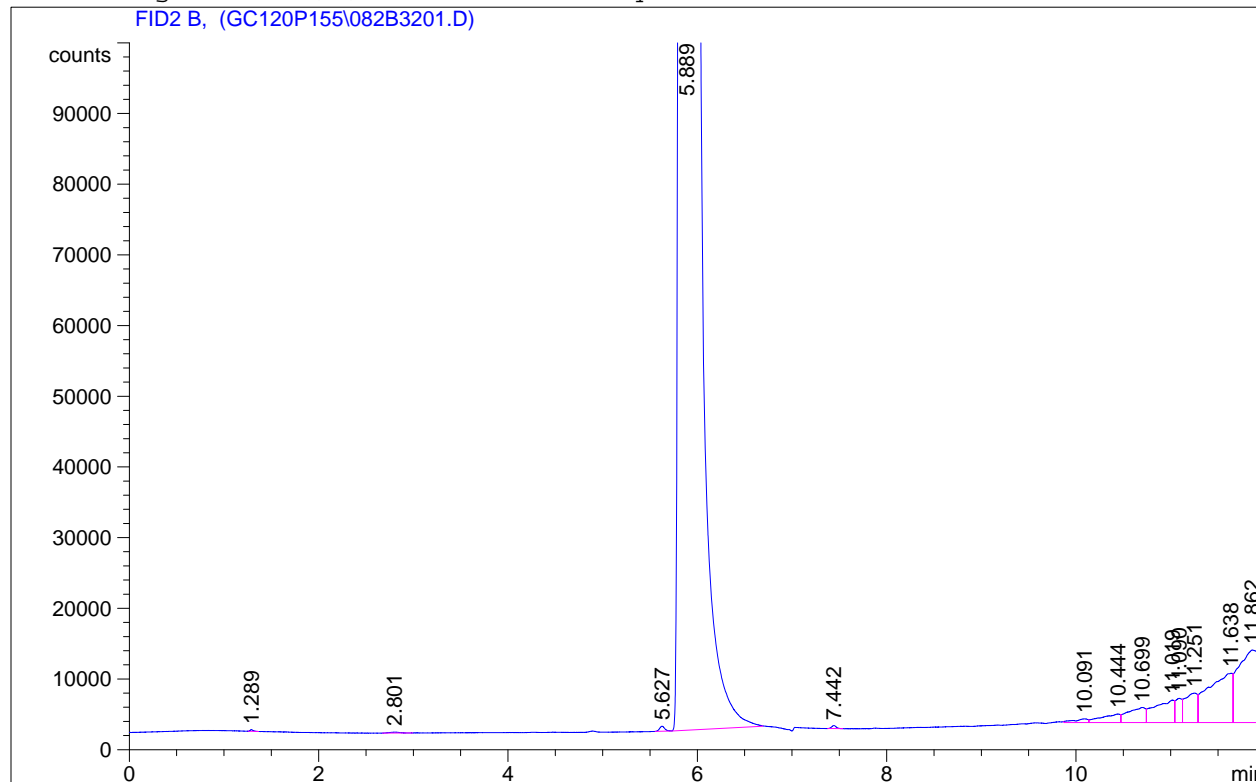
Totals : 0.00000

Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   32
Acq. Instrument : Penn online                  Location  : Vial 82
Injection Date  : 8/30/2011 8:48:10 AM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
  
```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: FID2 B,

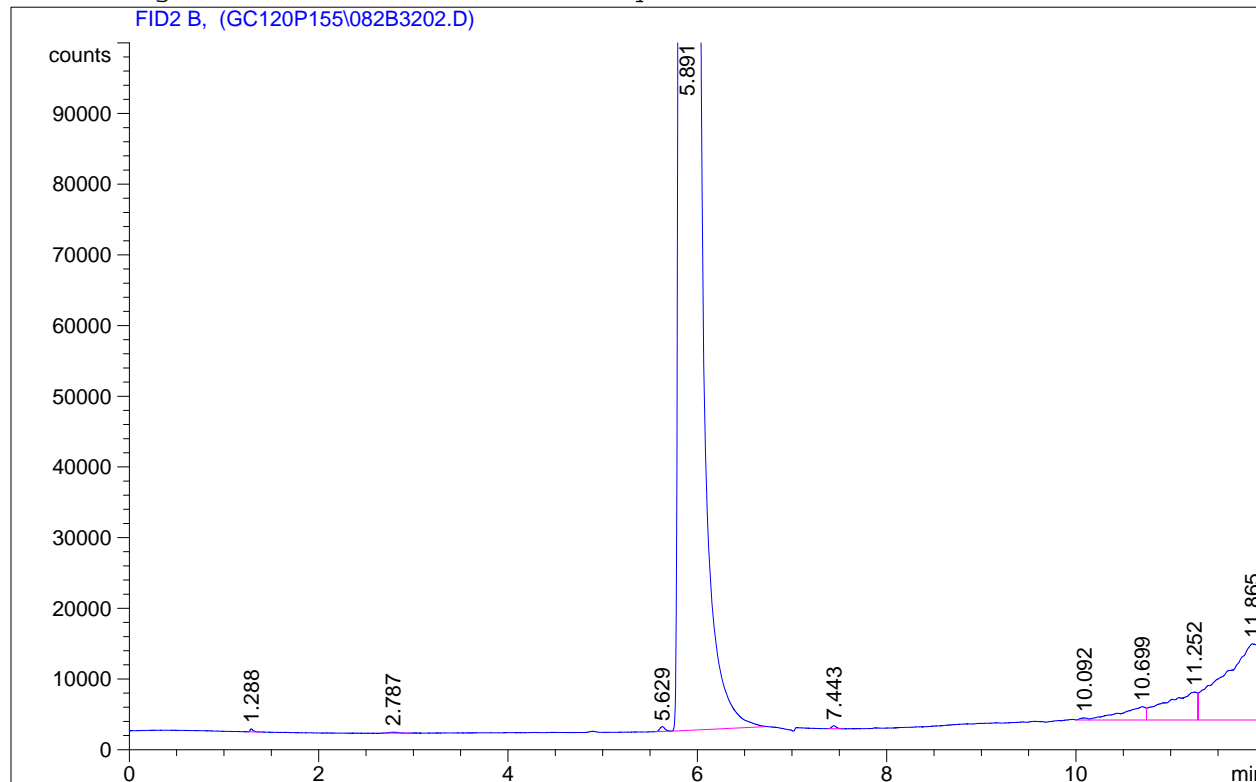
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   32
Acq. Instrument : Penn online                  Location  : Vial 82
Injection Date  : 8/30/2011 9:10:45 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

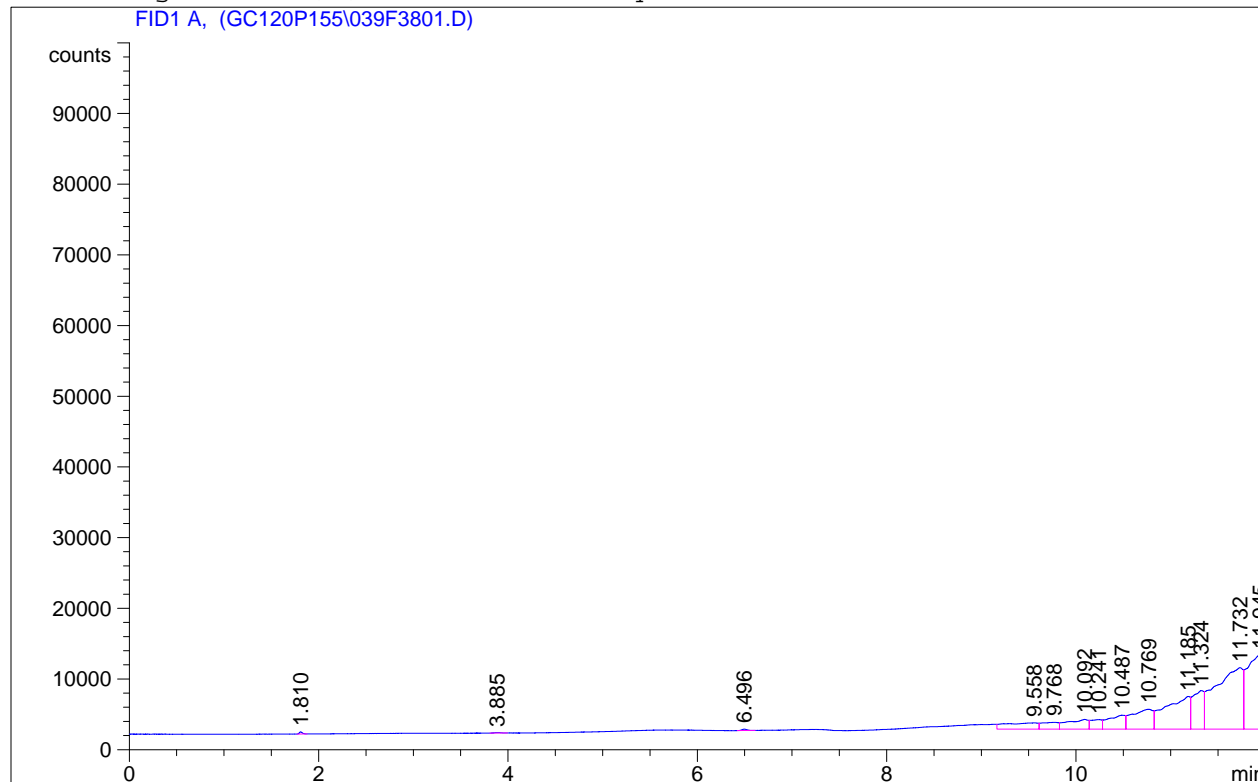
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found


```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   38
Acq. Instrument : Penn online                  Location  : Vial 39
Injection Date  : 8/30/2011 1:20:05 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-	-	Methanol

Totals : 0.00000

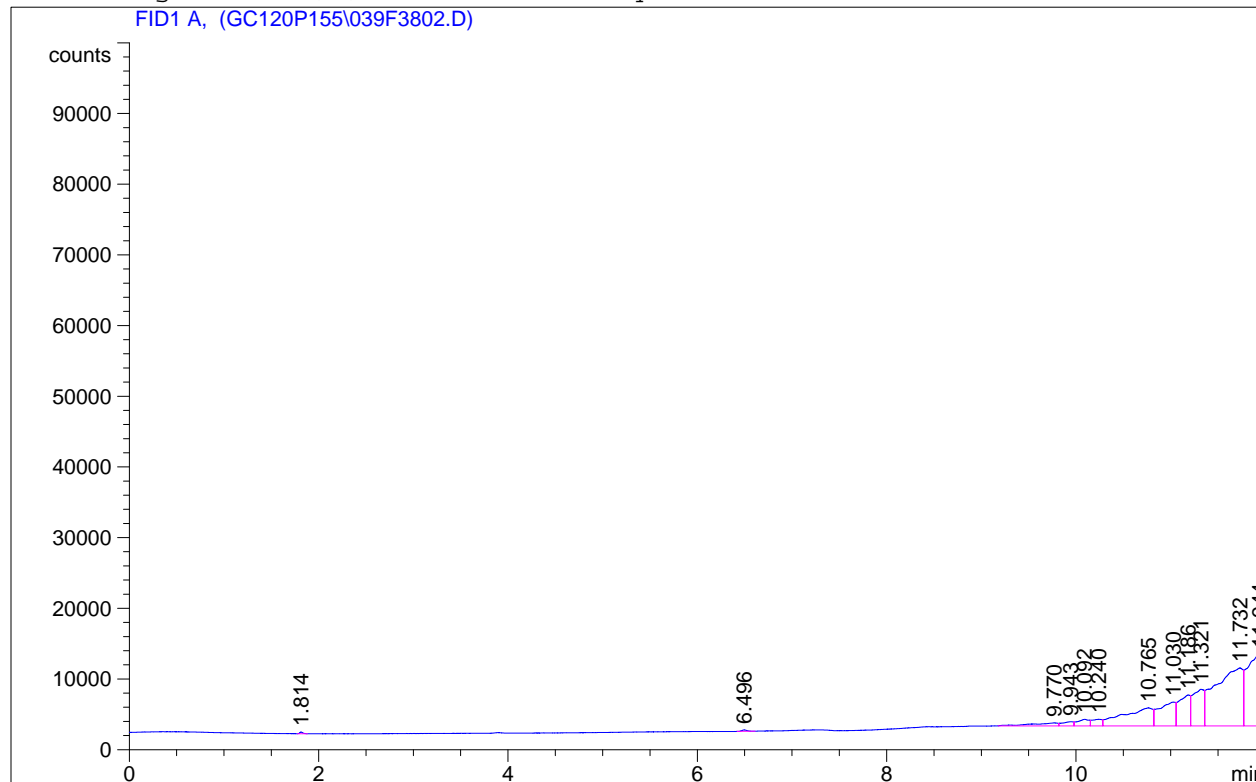
Signal 2: FID2 B, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   38
Acq. Instrument : Penn online                  Location  : Vial 39
Injection Date  : 8/30/2011 1:42:36 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

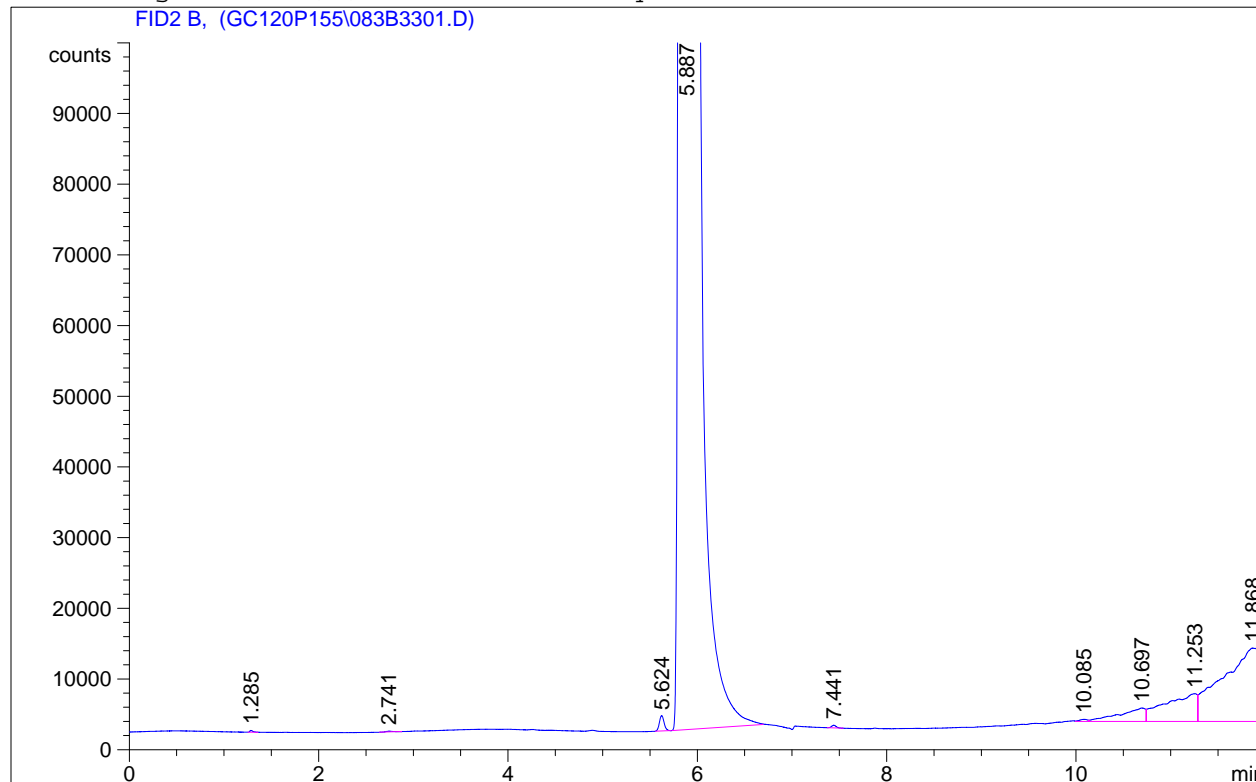
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-		Methanol

Totals : 0.00000

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   33
Acq. Instrument : Penn online                  Location  : Vial 83
Injection Date  : 8/30/2011 9:33:19 AM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

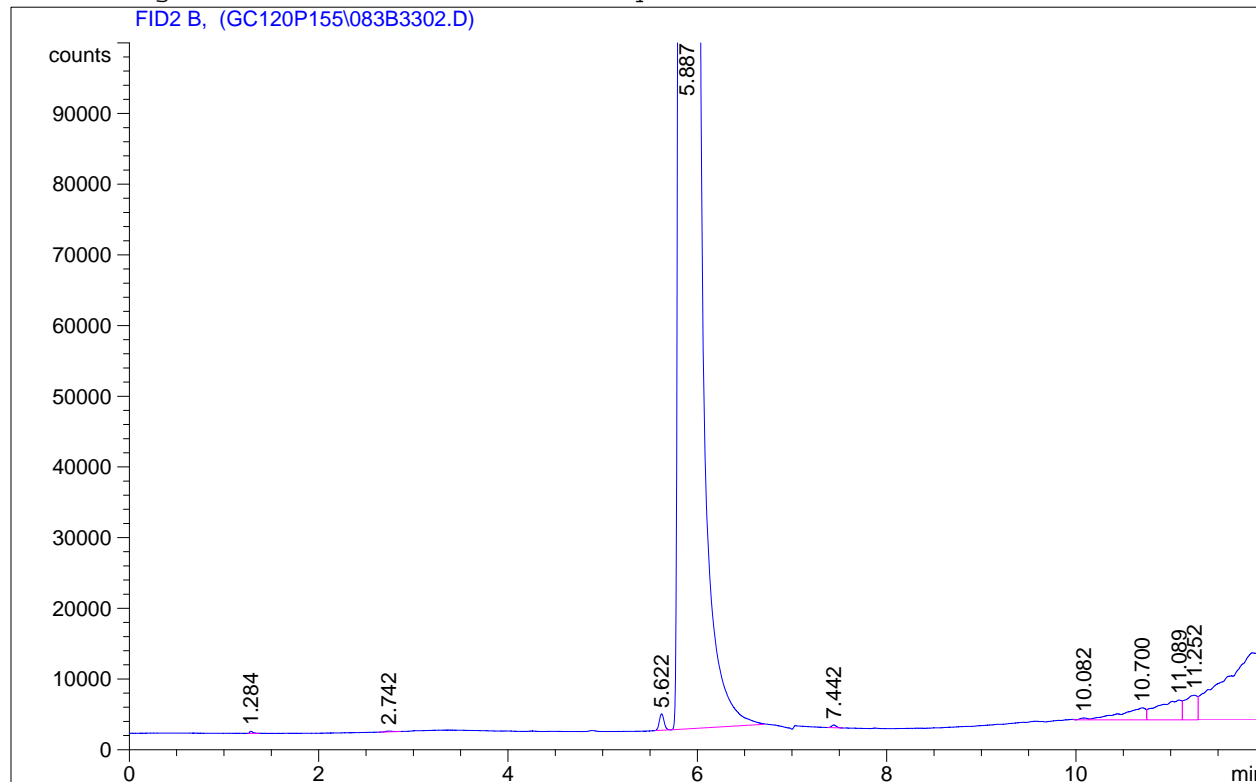
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   33
Acq. Instrument : Penn online                  Location  : Vial 83
Injection Date  : 8/30/2011 9:55:59 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

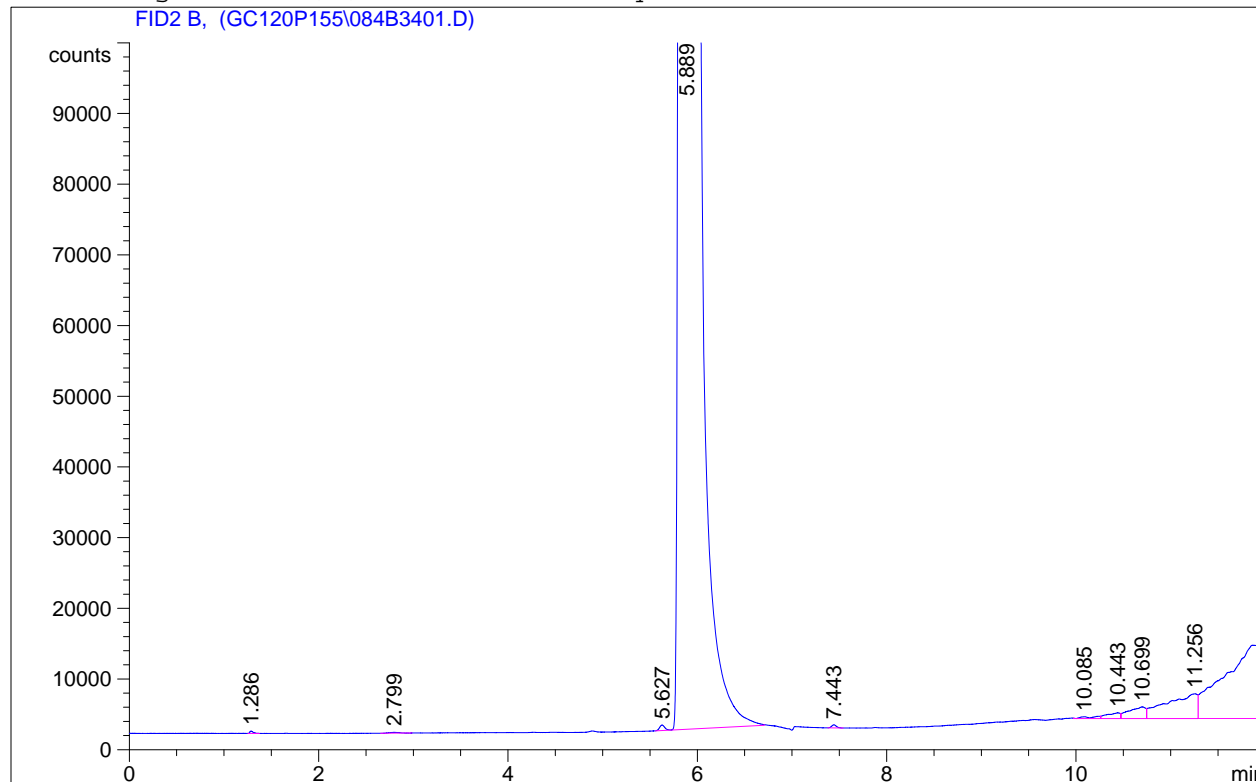
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   34
Acq. Instrument : Penn online                  Location  : Vial 84
Injection Date  : 8/30/2011 10:18:39 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

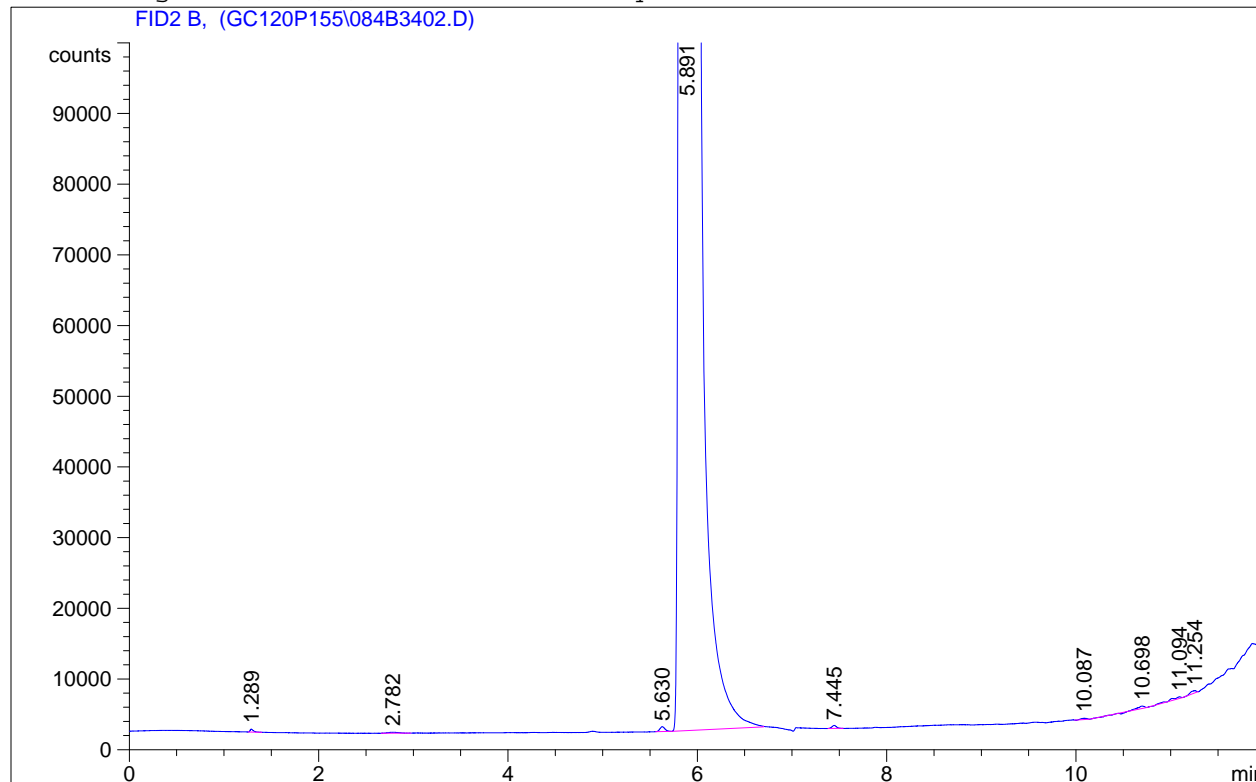
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   34
Acq. Instrument : Penn online                  Location  : Vial 84
Injection Date  : 8/30/2011 10:41:40 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

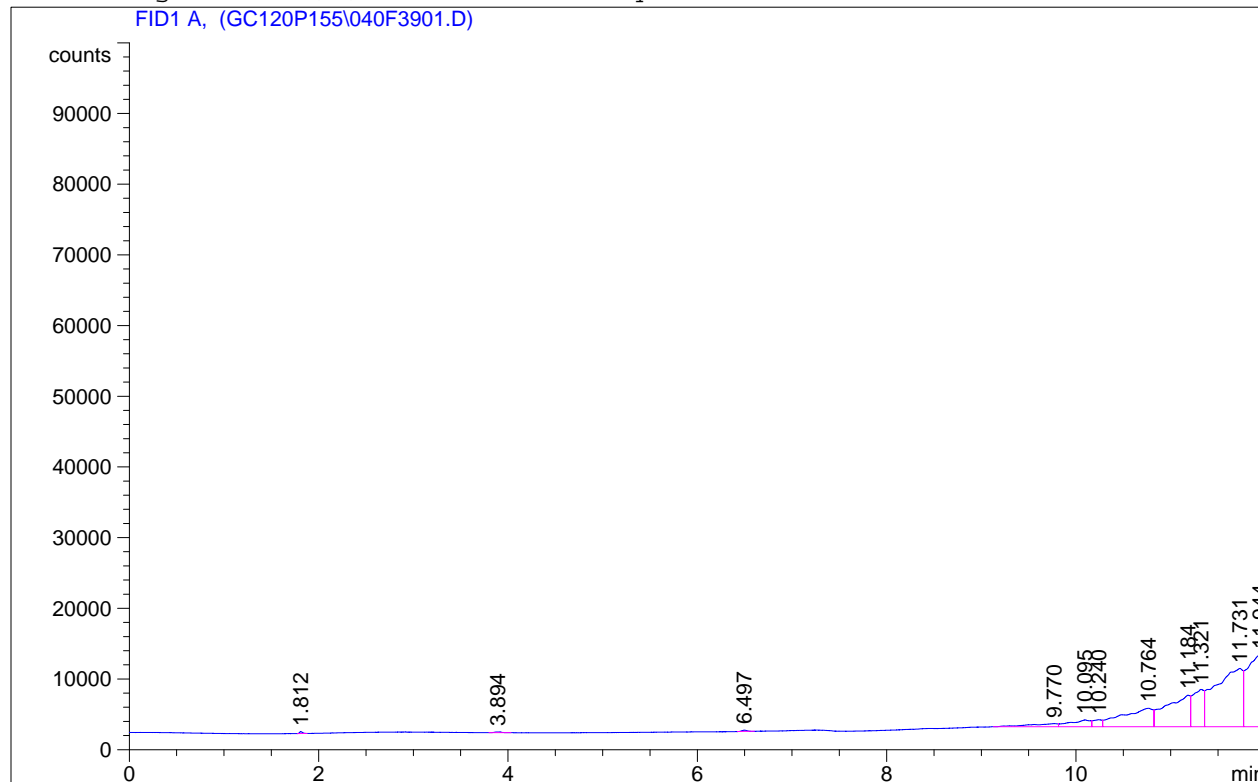
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   39
Acq. Instrument : Penn online                  Location  : Vial 40
Injection Date  : 8/30/2011 2:05:07 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

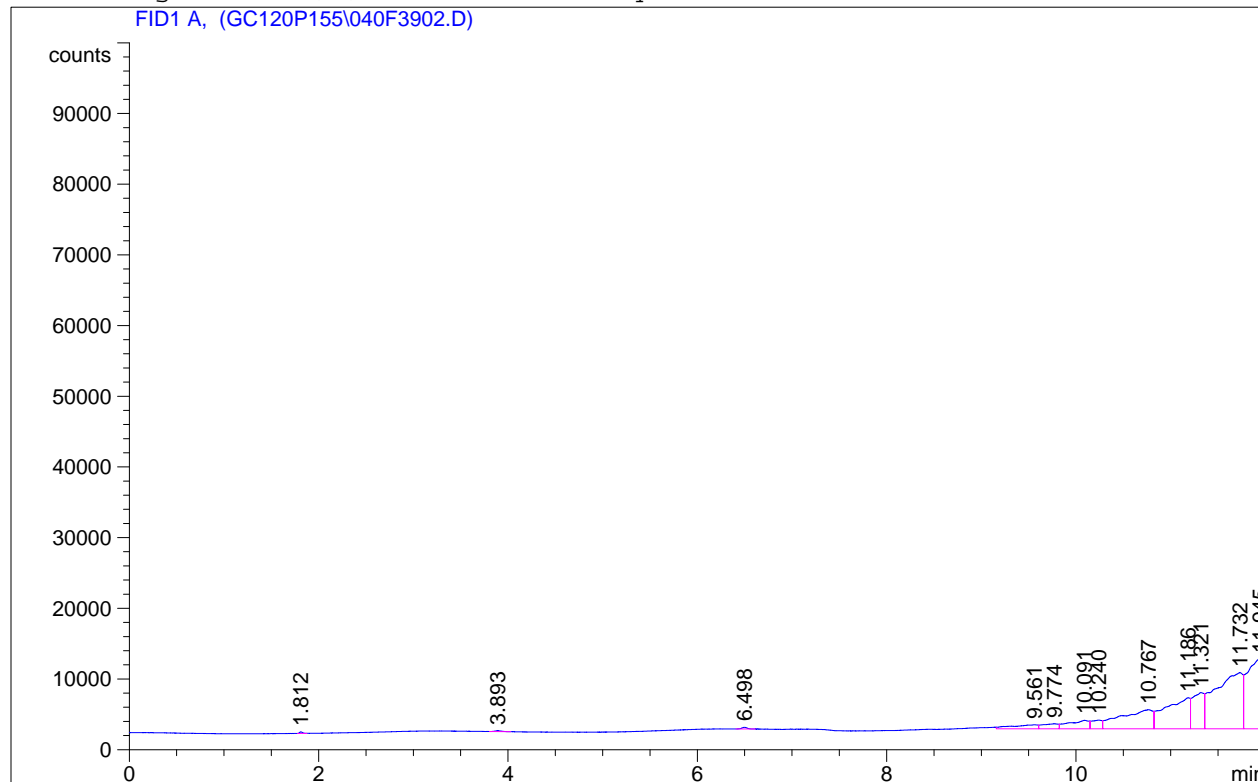
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   39
Acq. Instrument : Penn online                  Location  : Vial 40
Injection Date  : 8/30/2011 2:27:38 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

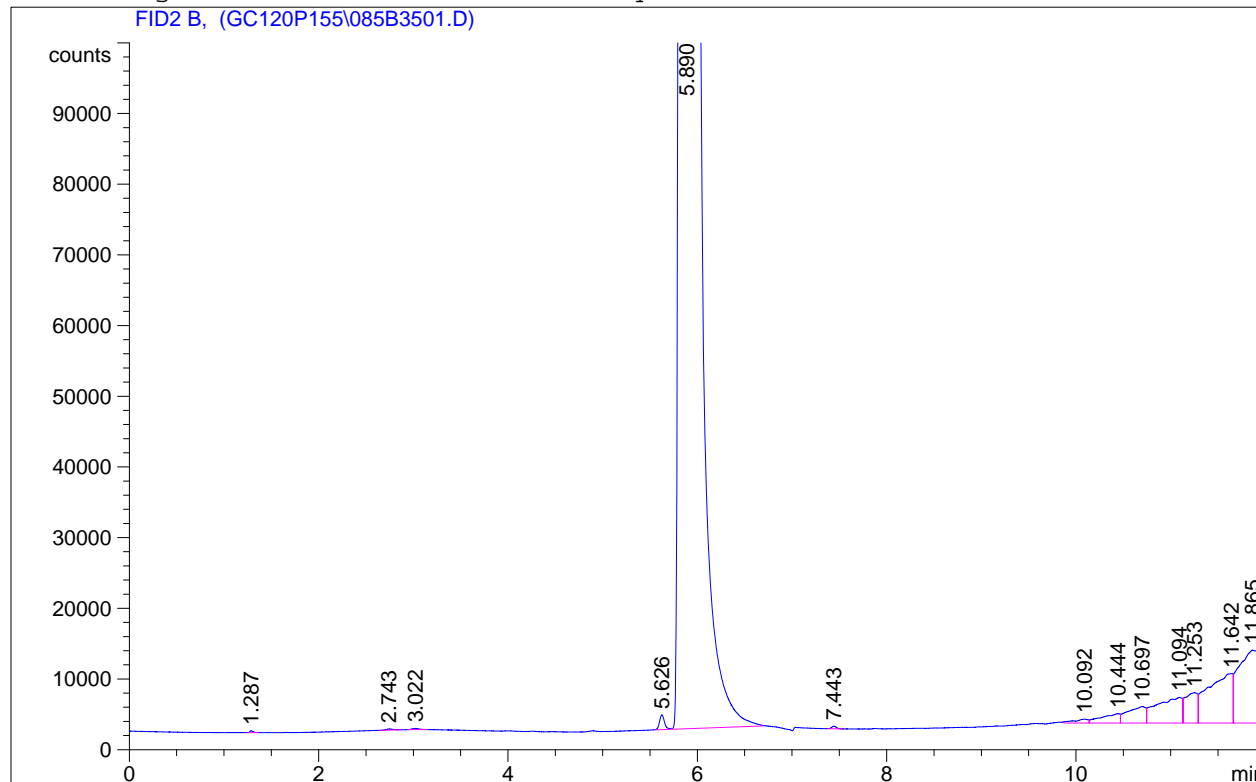
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID2 B, not found


```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   35
Acq. Instrument : Penn online                  Location  : Vial 85
Injection Date  : 8/30/2011 11:04:37 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

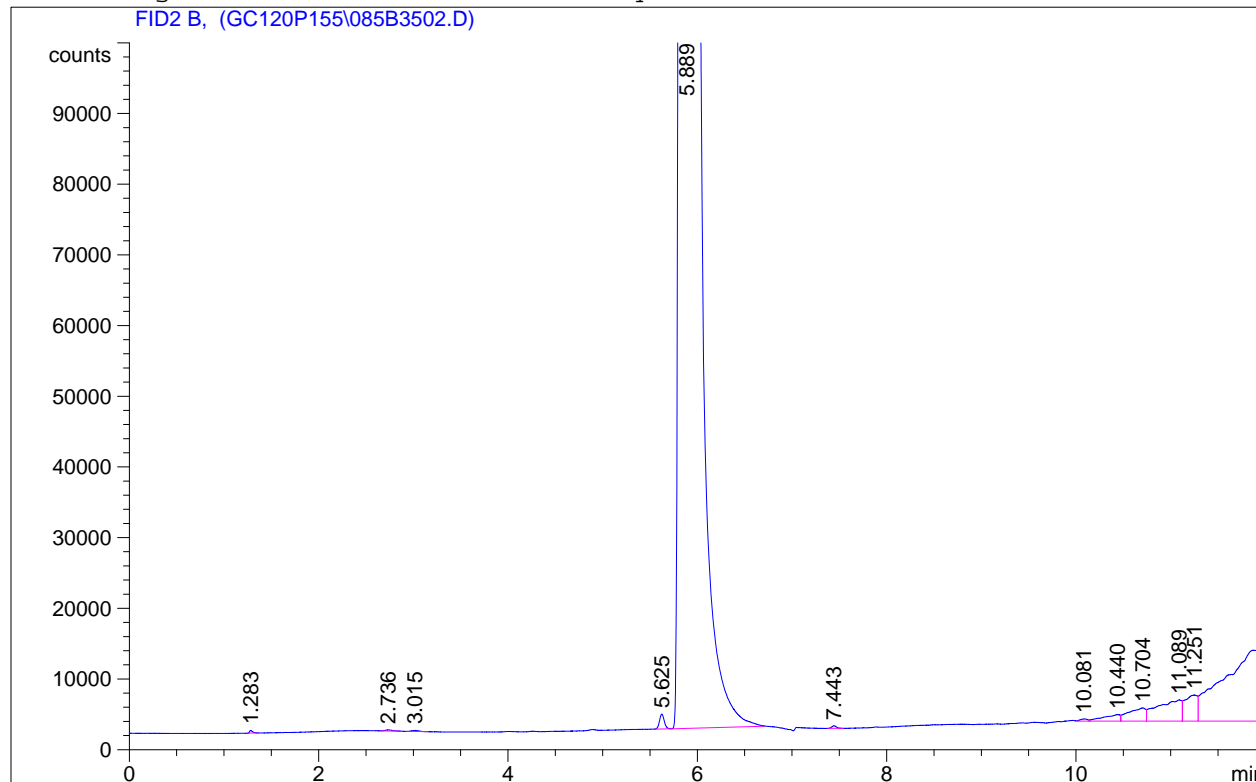
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   35
Acq. Instrument : Penn online                  Location  : Vial 85
Injection Date  : 8/30/2011 11:27:26 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

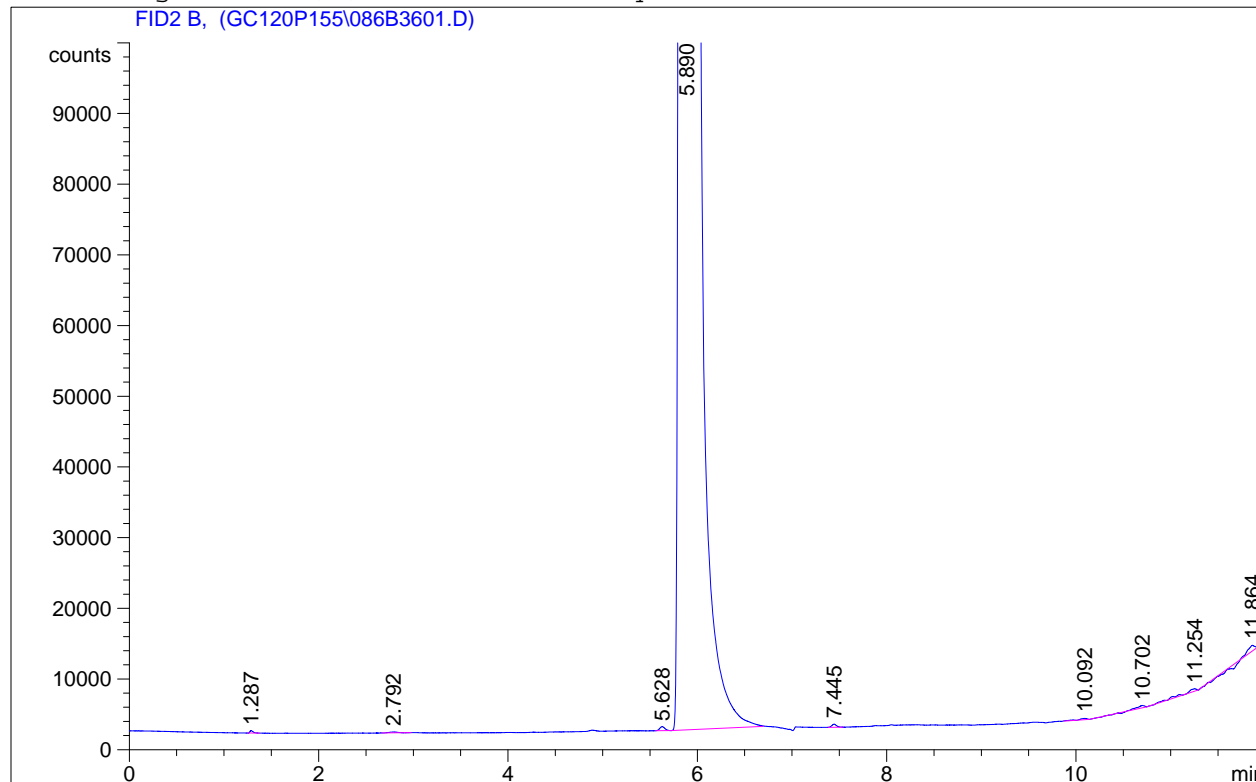
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   36
Acq. Instrument : Penn online                  Location  : Vial 86
Injection Date  : 8/30/2011 11:50:01 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID2 B,

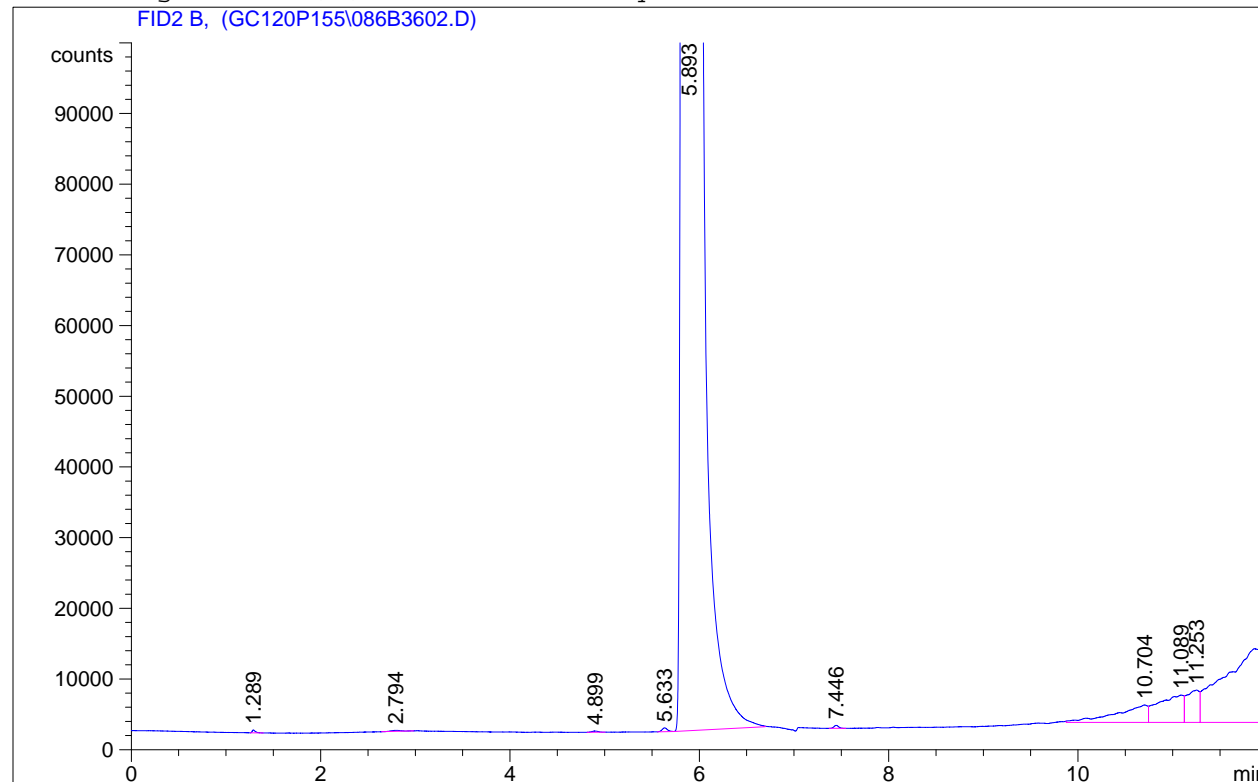
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   36
Acq. Instrument : Penn online                  Location  : Vial 86
Injection Date  : 8/30/2011 12:12:32 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

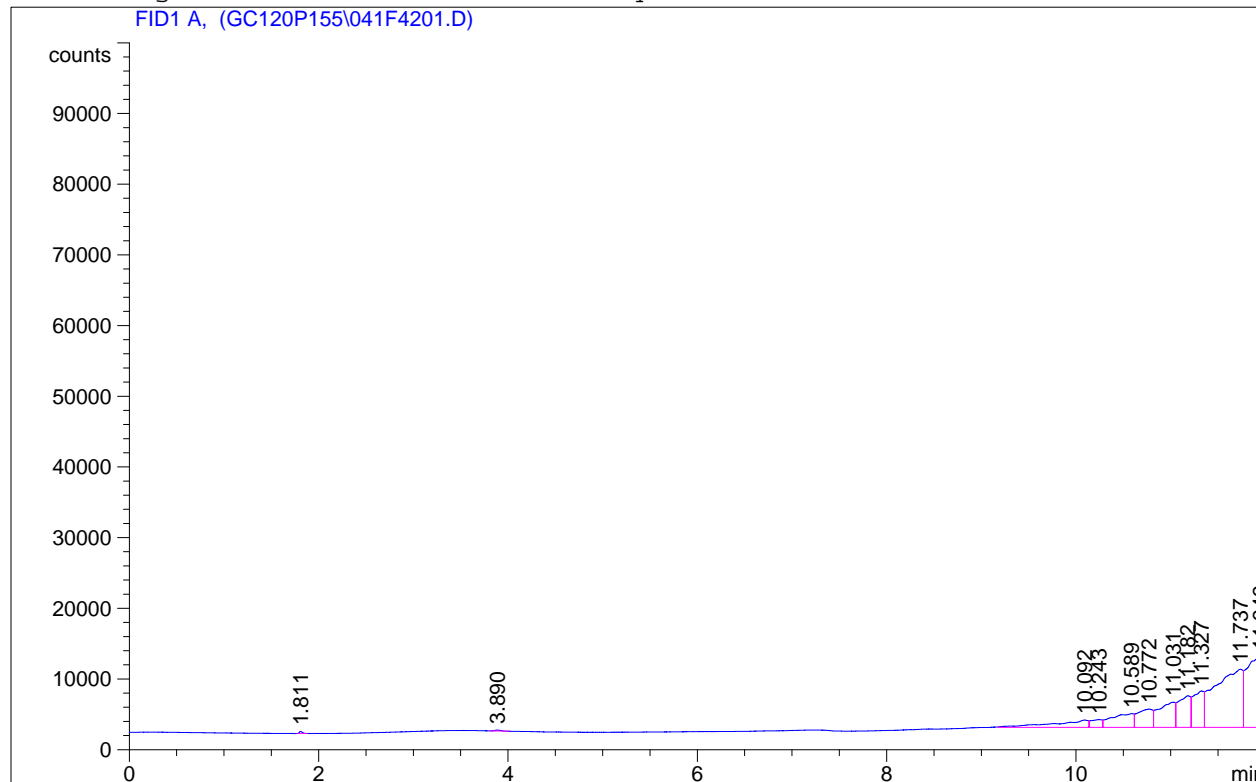
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   42
Acq. Instrument : Penn online                  Location  : Vial 41
Injection Date  : 8/30/2011 4:20:39 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

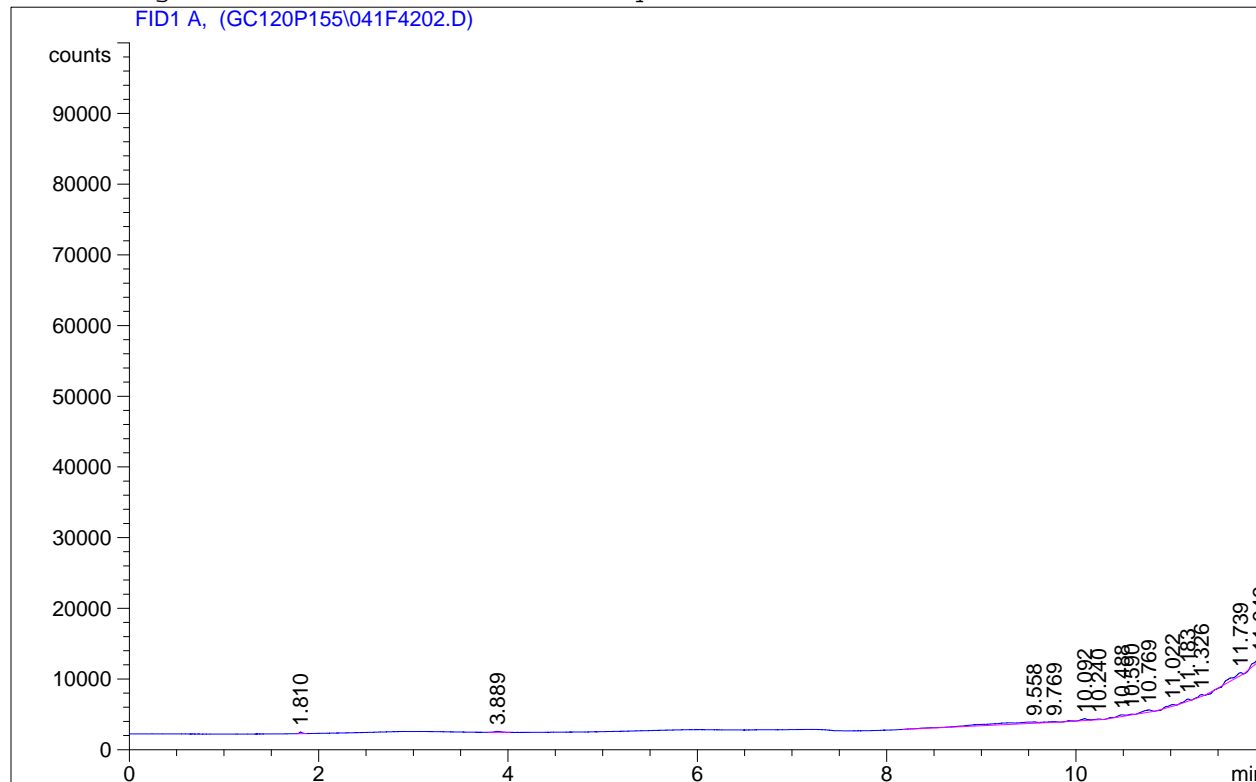
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   42
Acq. Instrument : Penn online                  Location  : Vial 41
Injection Date  : 8/30/2011 4:43:06 PM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

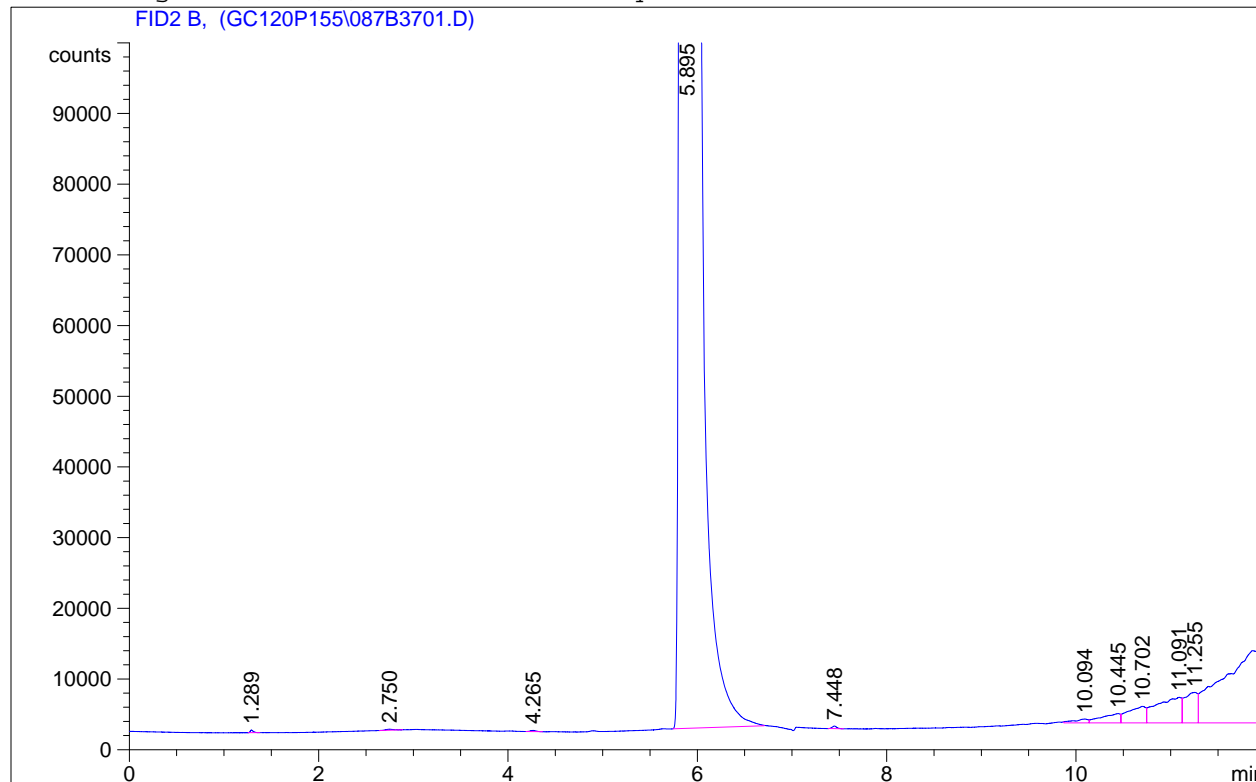
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   37
Acq. Instrument : Penn online                  Location  : Vial 87
Injection Date  : 8/30/2011 12:34:58 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

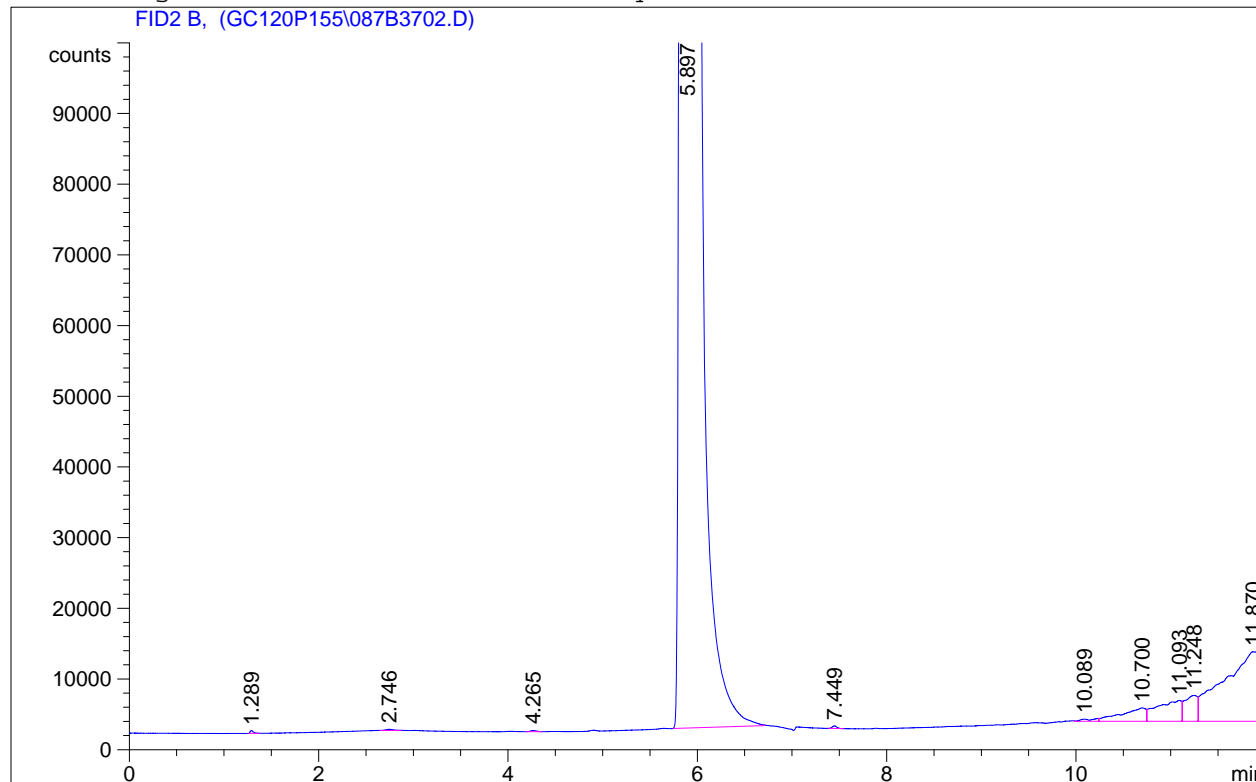
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   37
Acq. Instrument : Penn online                  Location  : Vial 87
Injection Date  : 8/30/2011 12:57:33 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

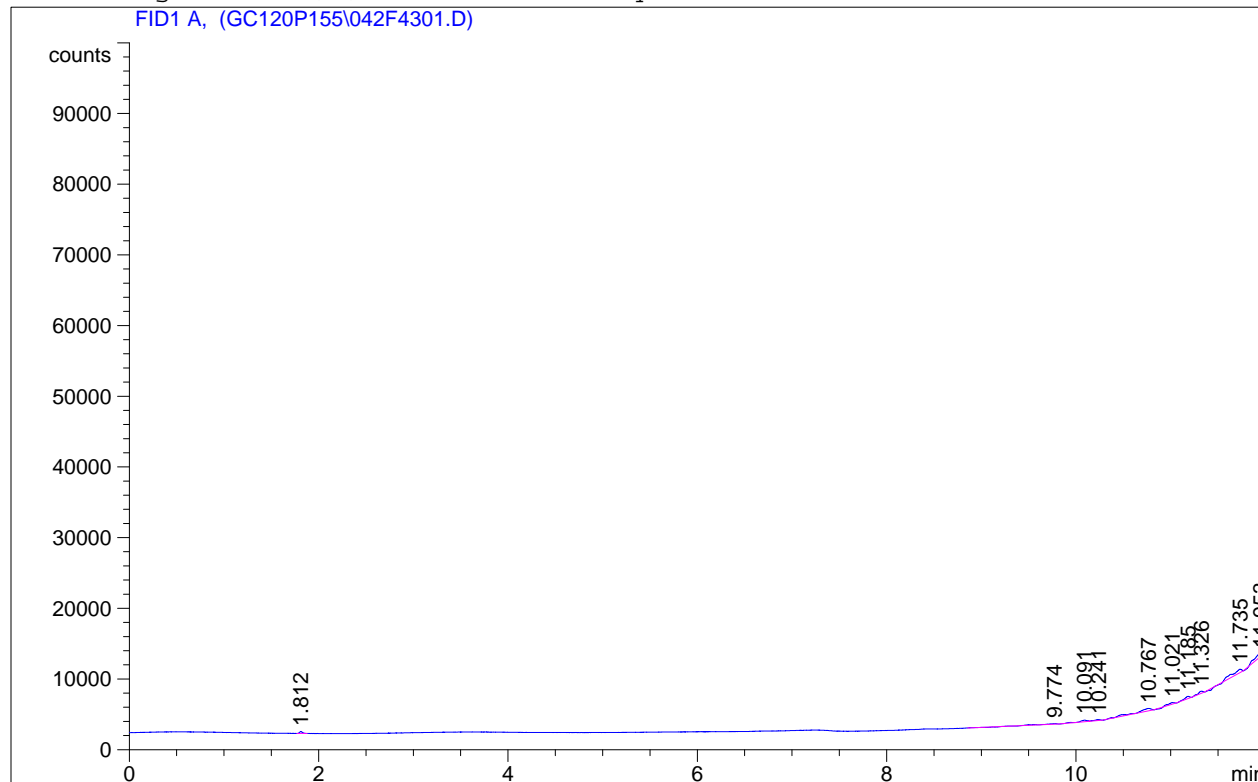
Signal 2: FID1 A, not found


```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   43
Acq. Instrument : Penn online                  Location  : Vial 42
Injection Date  : 8/30/2011 5:05:42 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

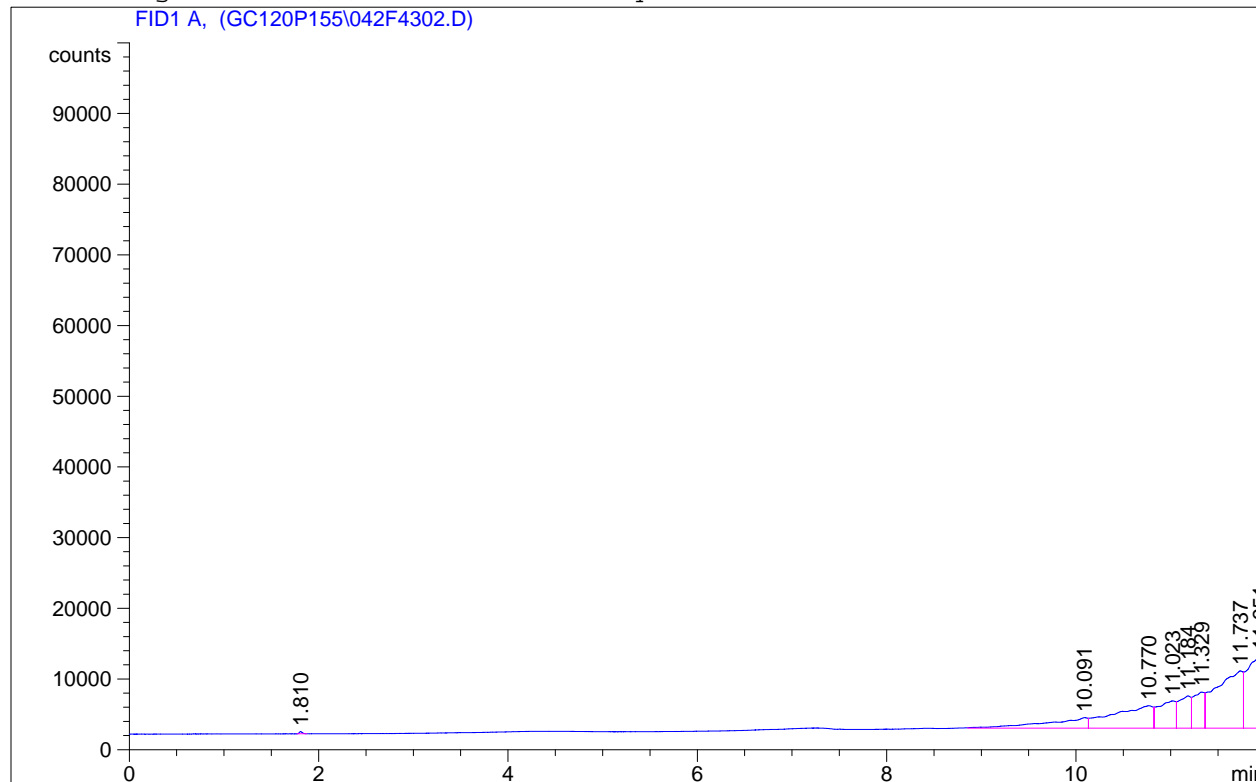
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   43
Acq. Instrument : Penn online                  Location  : Vial 42
Injection Date  : 8/30/2011 5:28:17 PM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

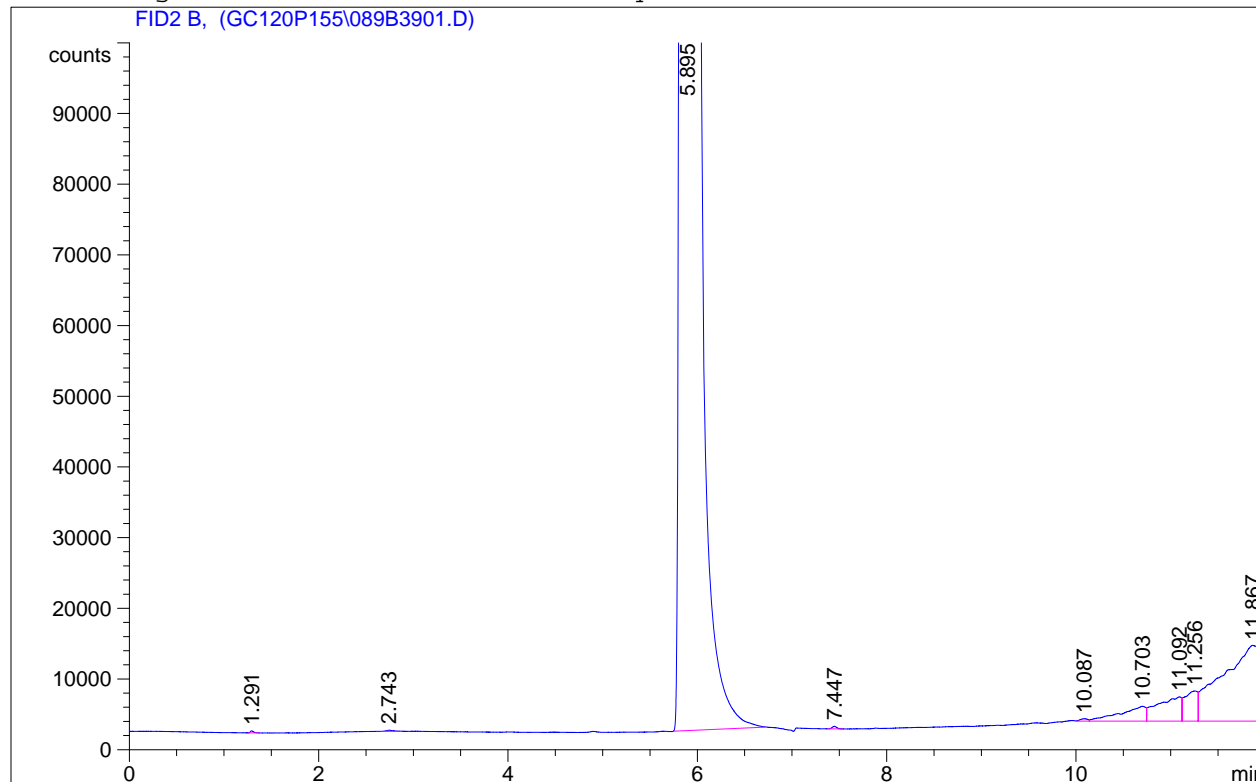
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   39
Acq. Instrument : Penn online                  Location  : Vial 89
Injection Date  : 8/30/2011 2:05:07 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

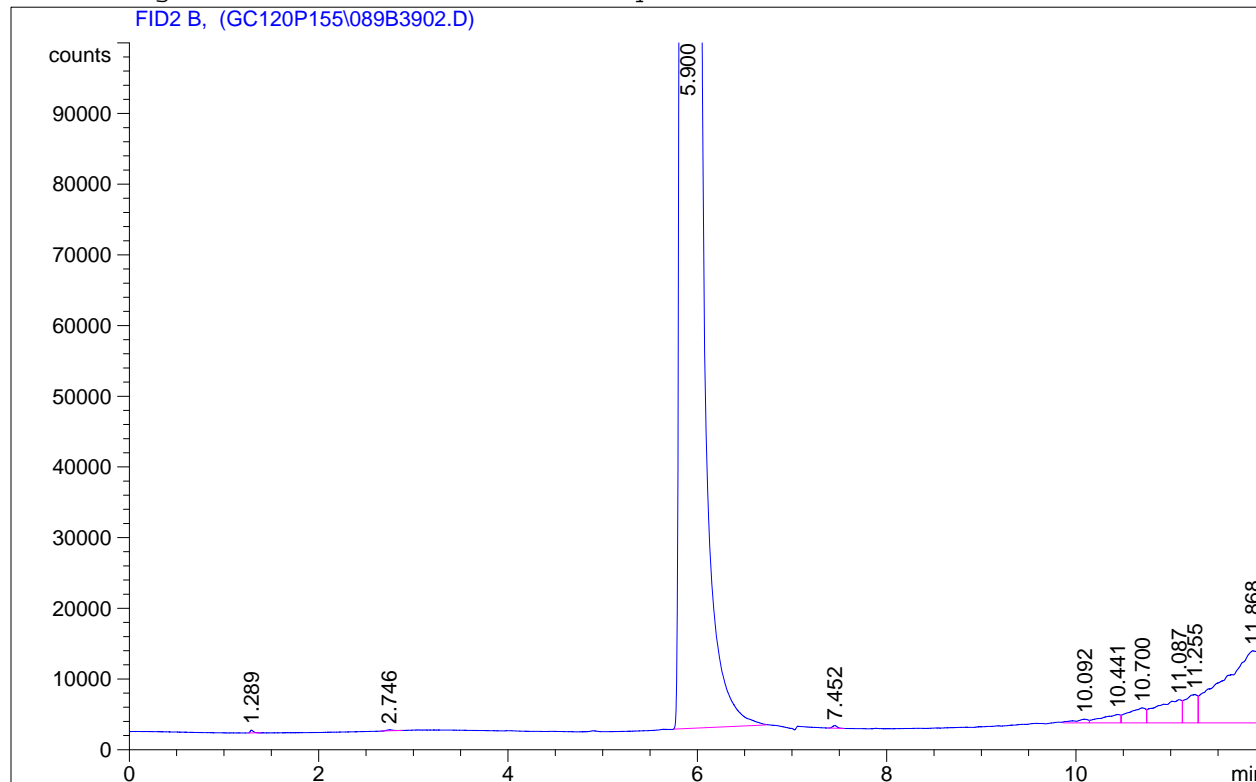
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   39
Acq. Instrument : Penn online                  Location  : Vial 89
Injection Date  : 8/30/2011 2:27:38 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

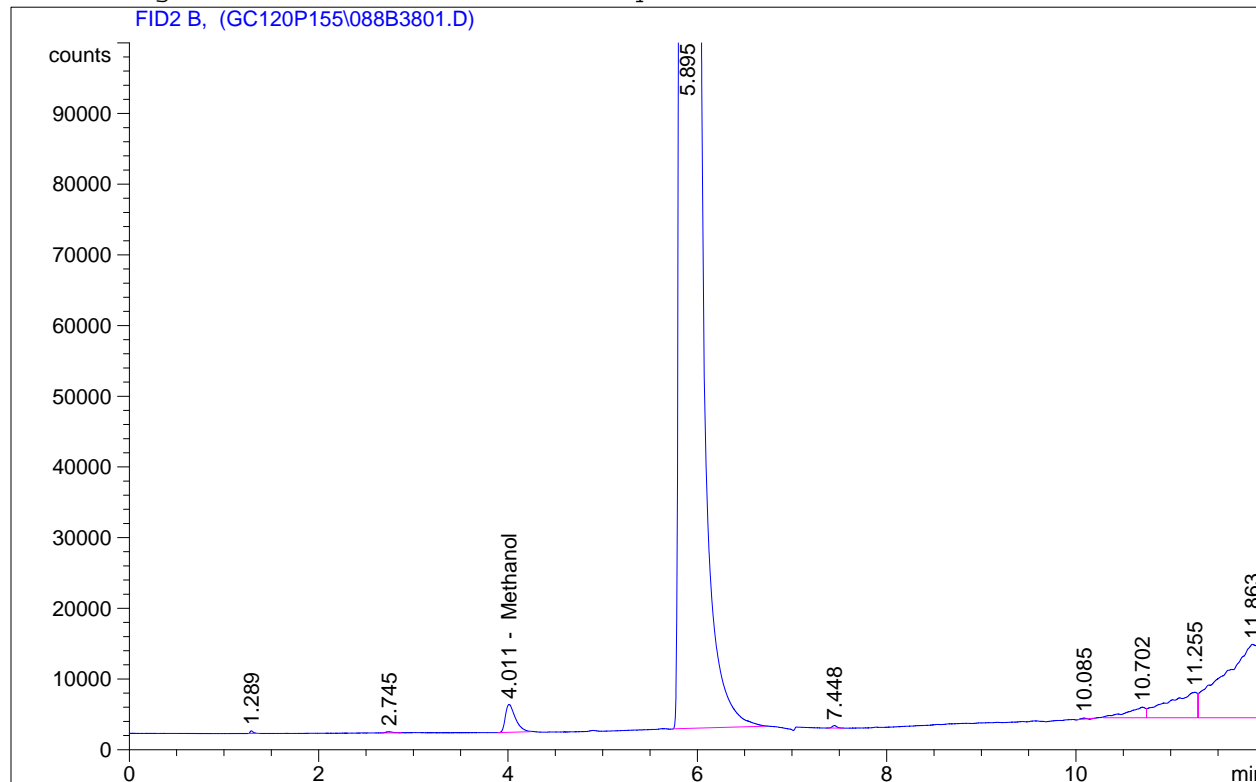
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   38
Acq. Instrument : Penn online                  Location  : Vial 88
Injection Date  : 8/30/2011 1:20:05 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

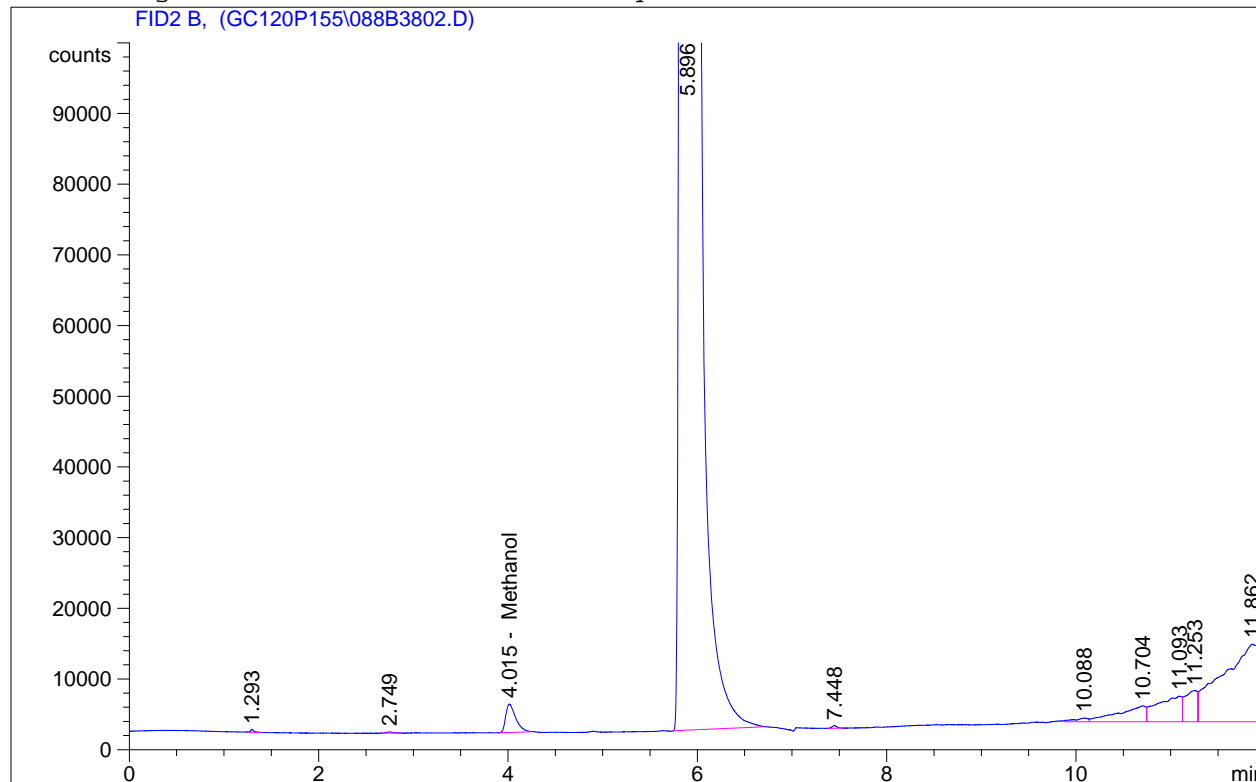
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.011	BB	2.89991e4	1.07236e-3	31.09752		Methanol

Totals : 31.09752

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   38
Acq. Instrument : Penn online                  Location  : Vial 88
Injection Date  : 8/30/2011 1:42:36 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.015	BB	2.92918e4	1.07244e-3	31.41371		Methanol

Totals : 31.41371

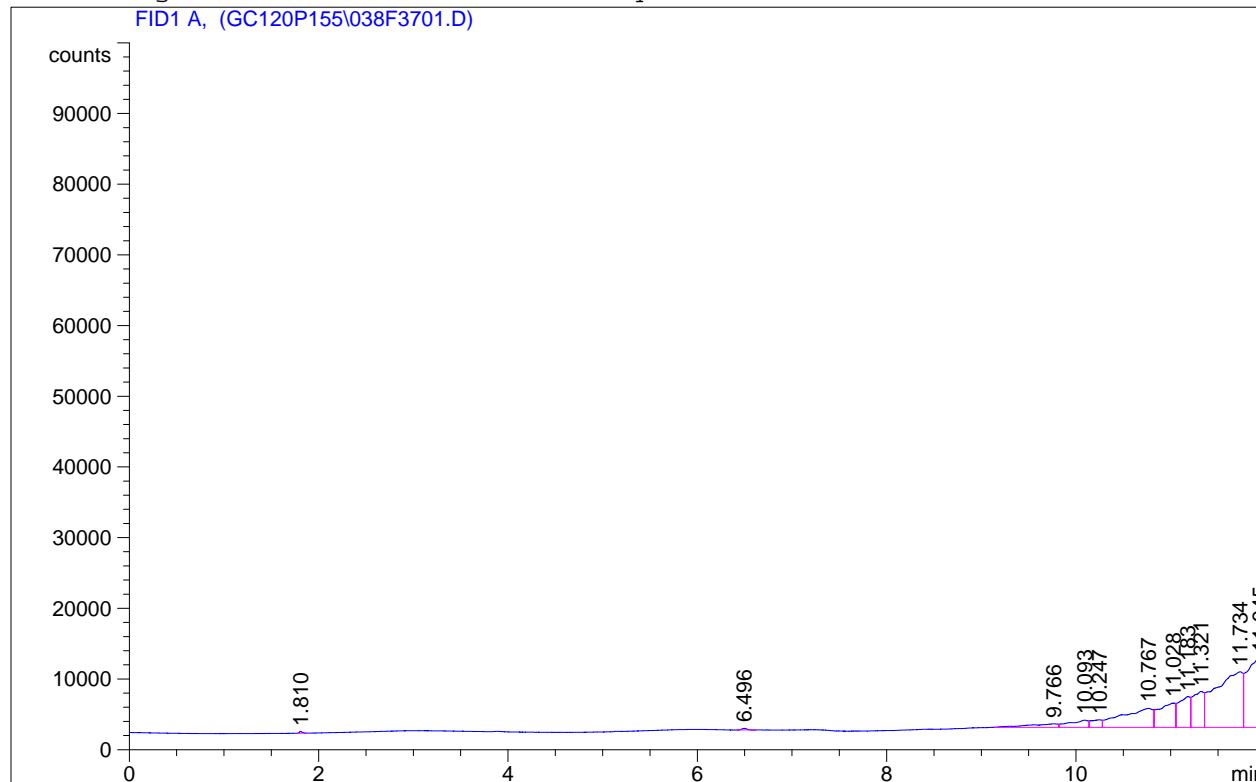
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   37
Acq. Instrument : Penn online                  Location  : Vial 38
Injection Date  : 8/30/2011 12:34:58 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-		Methanol

Totals : 0.00000

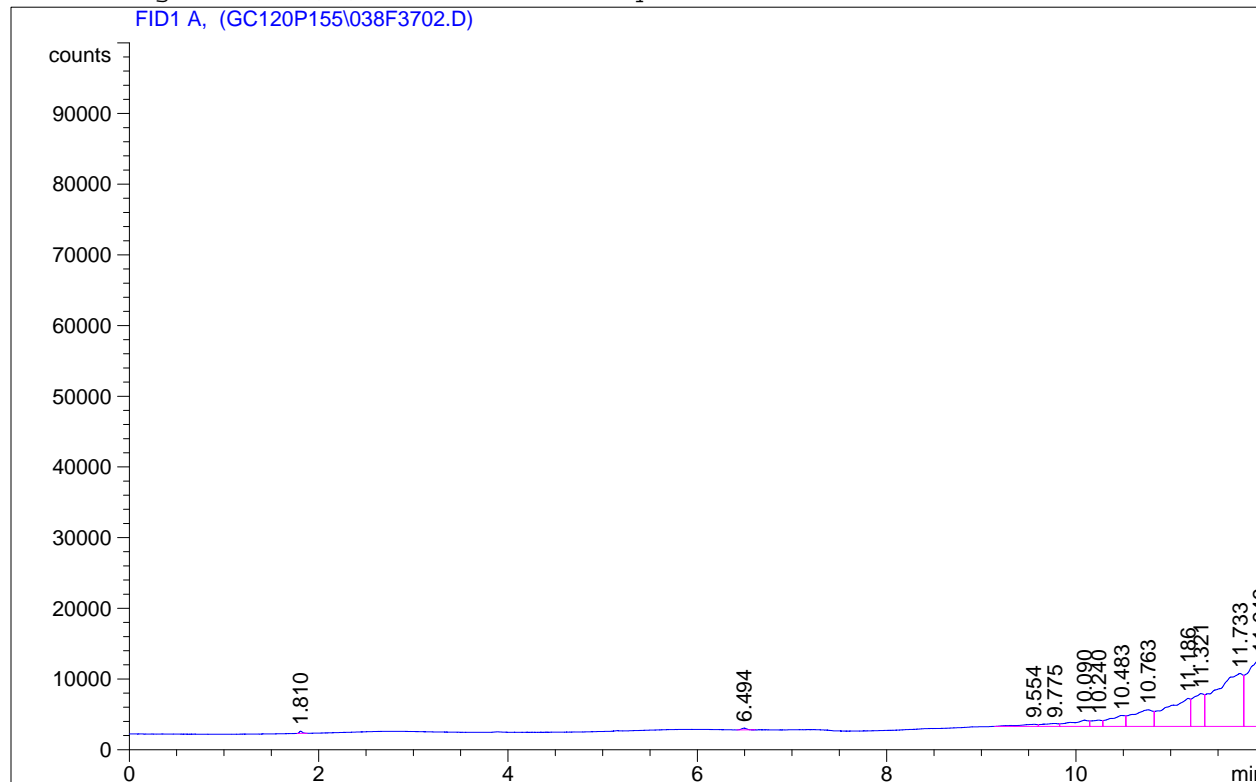
Signal 2: FID2 B, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   37
Acq. Instrument : Penn online                  Location  : Vial 38
Injection Date  : 8/30/2011 12:57:33 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

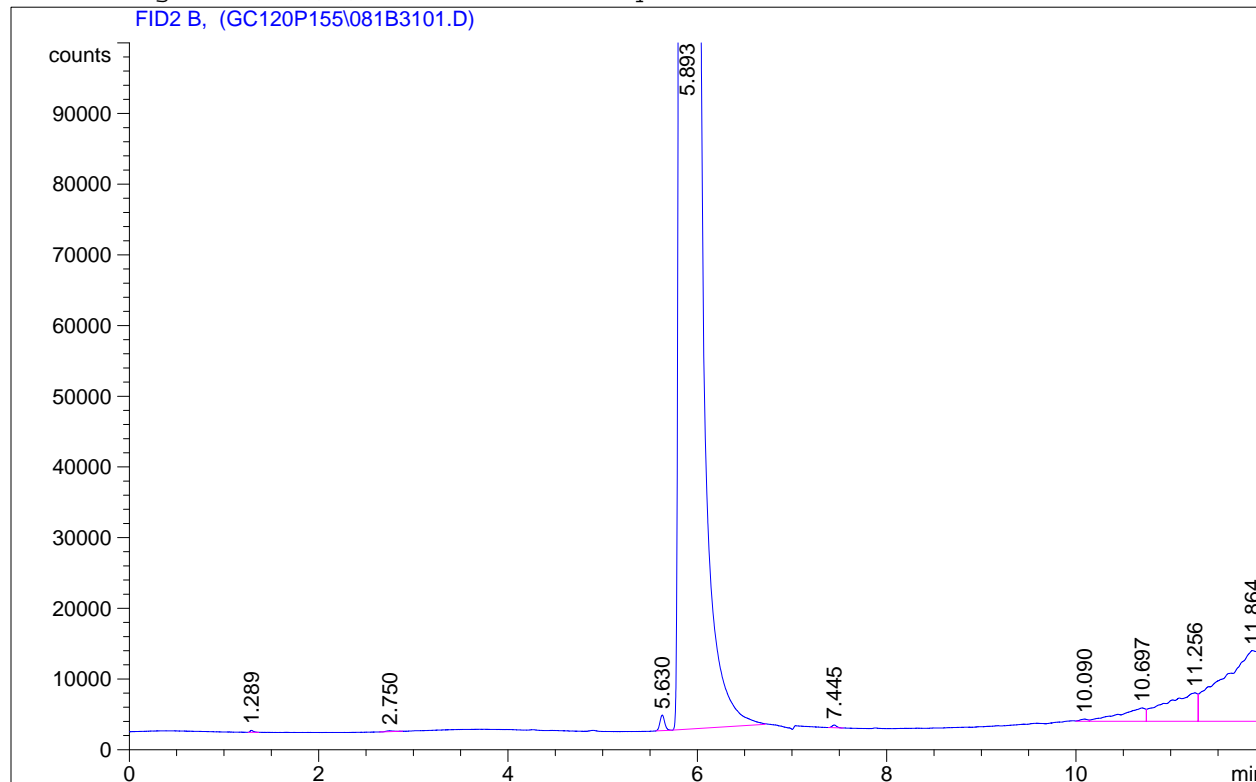
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.939	-	-	-	-		Methanol

Totals : 0.00000

Signal 2: FID2 B, not found


```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   31
Acq. Instrument : Penn online                  Location  : Vial 81
Injection Date  : 8/30/2011 8:02:52 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

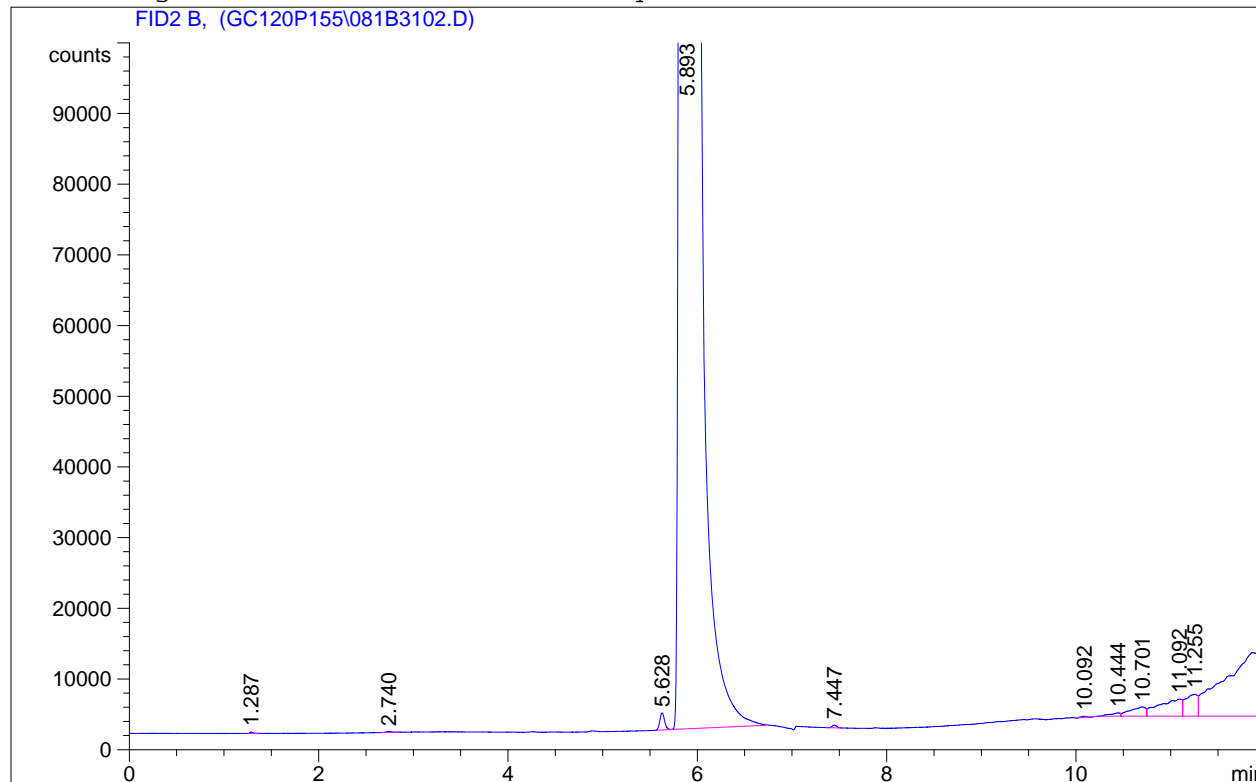
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   31
Acq. Instrument : Penn online                  Location  : Vial 81
Injection Date  : 8/30/2011 8:25:30 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.018	-	-	-	-	-	Methanol

Totals : 0.00000

Signal 2: FID1 A, not found

Calibration Curve Chromatograms

```

=====
                        Calibration Table
=====

```

Calib. Data Modified : 9/1/2011 1:03:59 PM

Rel. Reference Window : 5.000 %
 Abs. Reference Window : 0.100 min
 Rel. Non-ref. Window : 5.000 %
 Abs. Non-ref. Window : 0.100 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
 Origin : Connected
 Weight : Quadratic (Amnt)

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: FID1 A,
 Signal 2: FID2 B,

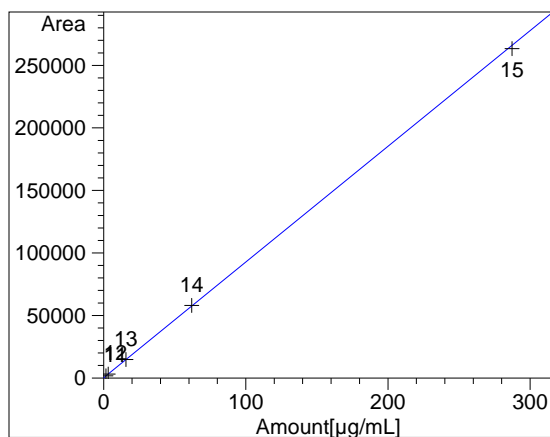
RetTime [min]	Lvl Sig	Amount [µg/mL]	Area	Amt/Area	Ref Grp Name
4.018	2 11	1.58000	1668.30591	9.47069e-4	Methanol
	12	3.15800	3163.07385	9.98396e-4	
	13	15.72600	1.47396e4	1.06692e-3	
	14	61.97700	5.80174e4	1.06825e-3	
	15	287.30000	2.63445e5	1.09055e-3	
4.939	1 1	1.58000	858.96774	1.83942e-3	Methanol
	2	3.15800	1746.23615	1.80846e-3	
	3	15.72600	8700.72754	1.80744e-3	
	4	61.97700	3.50200e4	1.76976e-3	
	5	287.30000	1.72487e5	1.66563e-3	
	6	3160.80000	2.00098e6	1.57963e-3	

```

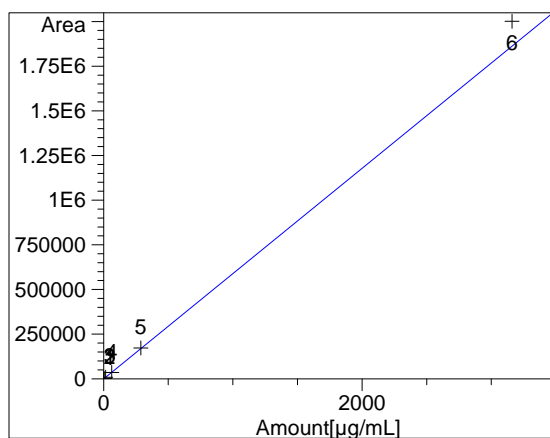
=====
                        Peak Sum Table
=====

```

No Entries in table

=====
Calibration Curves
=====

Methanol at exp. RT: 4.018
FID2 B,
Correlation: 0.99995
Residual Std. Dev.: 1589.15631
Formula: $y = mx + b$
m: 925.68978
b: 212.44455
x: Amount
y: Area
Calibration Level Weights:
Level 11 : 1
Level 12 : 0.250317
Level 13 : 0.010094
Level 14 : 0.00065
Level 15 : 0.00003



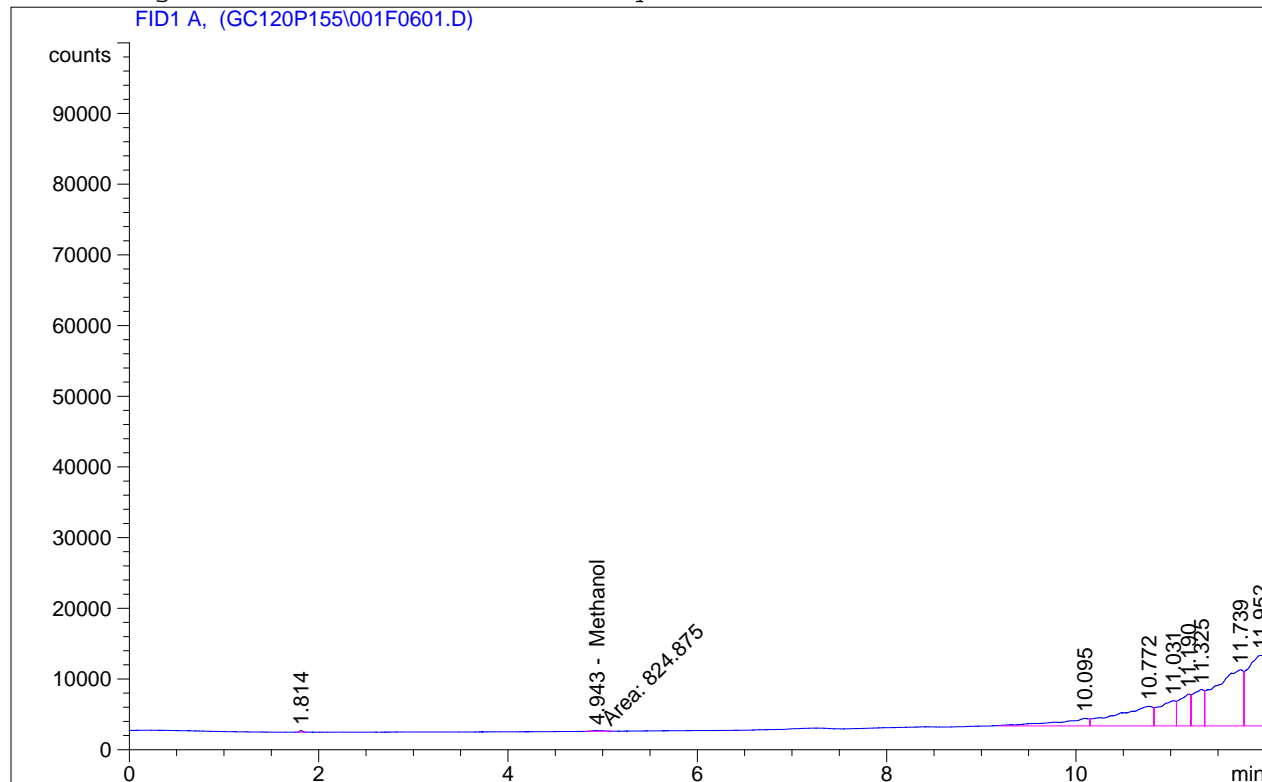
Methanol at exp. RT: 4.939
FID1 A,
Correlation: 0.99865
Residual Std. Dev.: 68996.34543
Formula: $y = mx + b$
m: 589.44386
b: -85.47554
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.250317
Level 3 : 0.010094
Level 4 : 0.00065
Level 5 : 0.00003
Level 6 : 2.49873e-007

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    6
Acq. Instrument : Penn online                  Location  : Vial 1
Injection Date  : 8/29/2011 1:05:22 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.943	MM	824.87469	1.86795e-3	1.54083		Methanol

Manual Int. "II" (CJT)

Totals : 1.54083

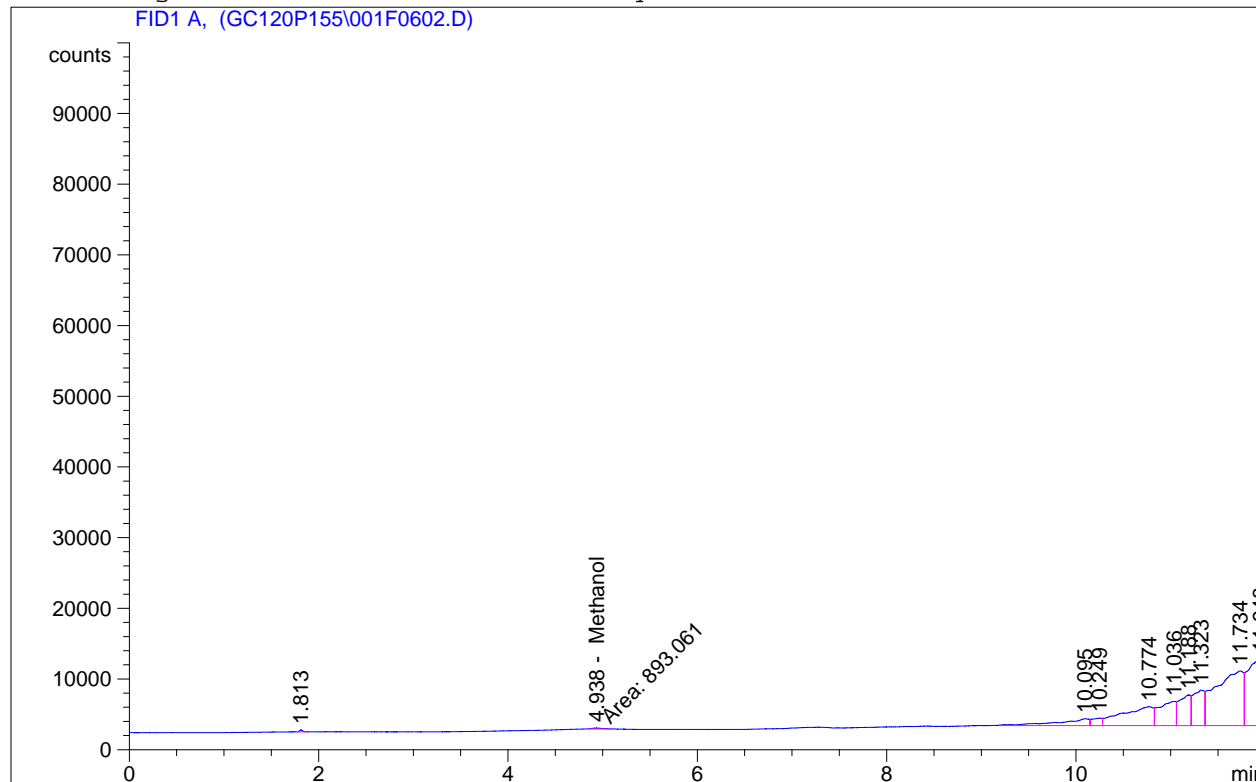
Signal 2: FID2 B, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    6
Acq. Instrument : Penn online                  Location  : Vial 1
Injection Date  : 8/29/2011 1:28:23 PM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.938	MM	893.06079	1.85889e-3	1.66010		Methanol

Manual Int. "IF" (CJT)

Totals : 1.66010

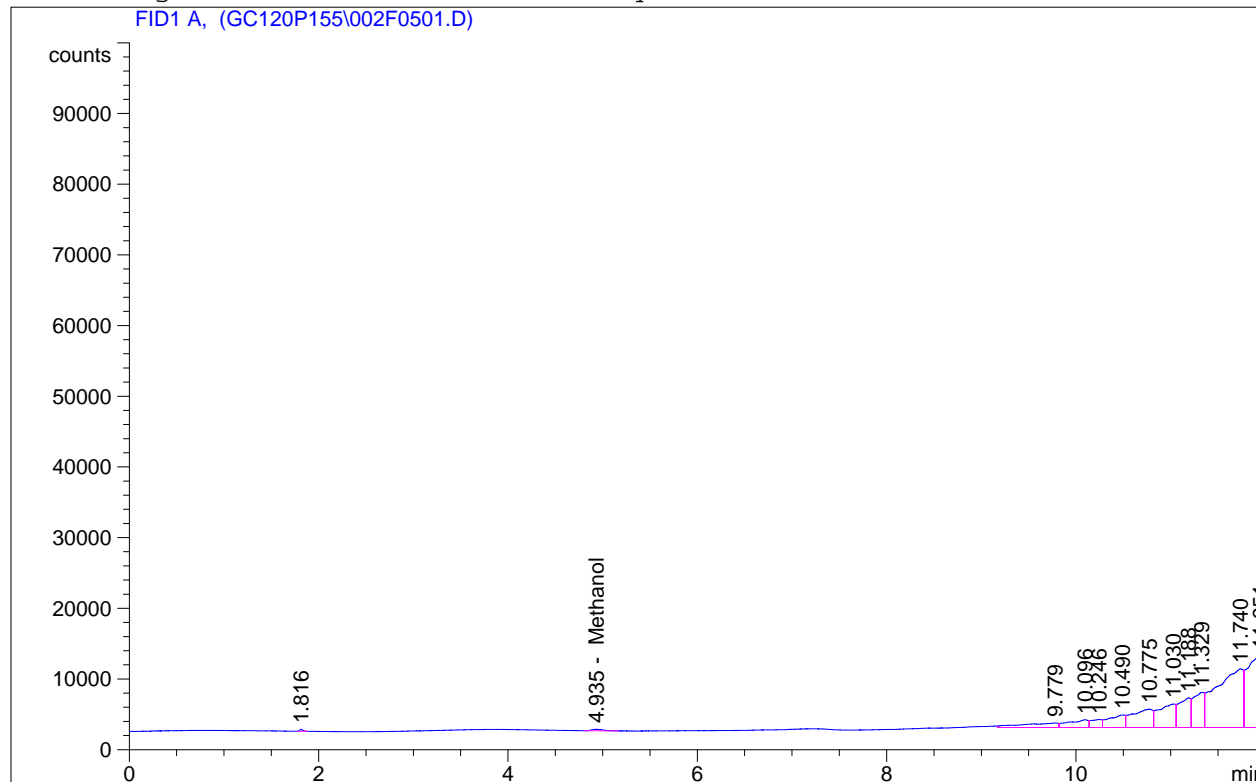
Signal 2: FID2 B, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    5
Acq. Instrument : Penn online                  Location  : Vial 2
Injection Date  : 8/29/2011 12:19:16 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.935	BB	1694.66626	1.78208e-3	3.02004		Methanol

Totals : 3.02004

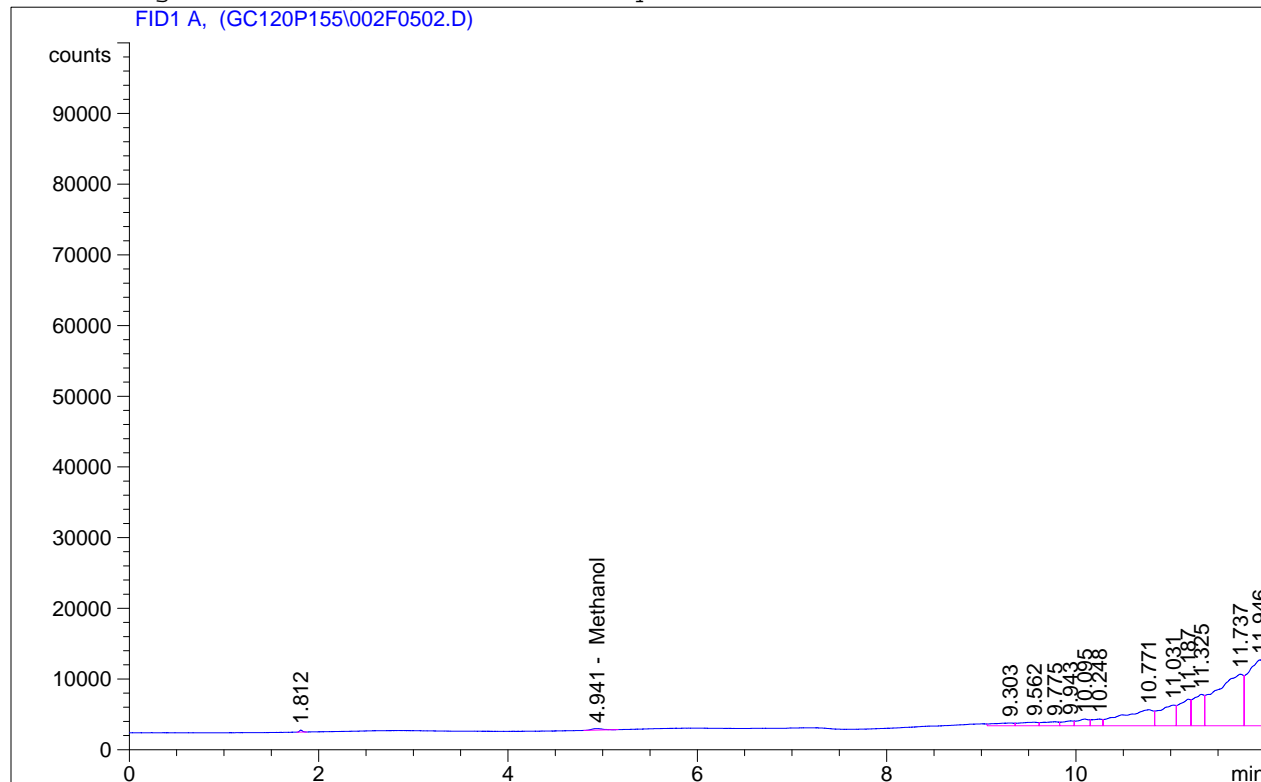
Signal 2: FID2 B, not found


```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    5
Acq. Instrument : Penn online                  Location  : Vial 2
Injection Date  : 8/29/2011 12:42:21 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

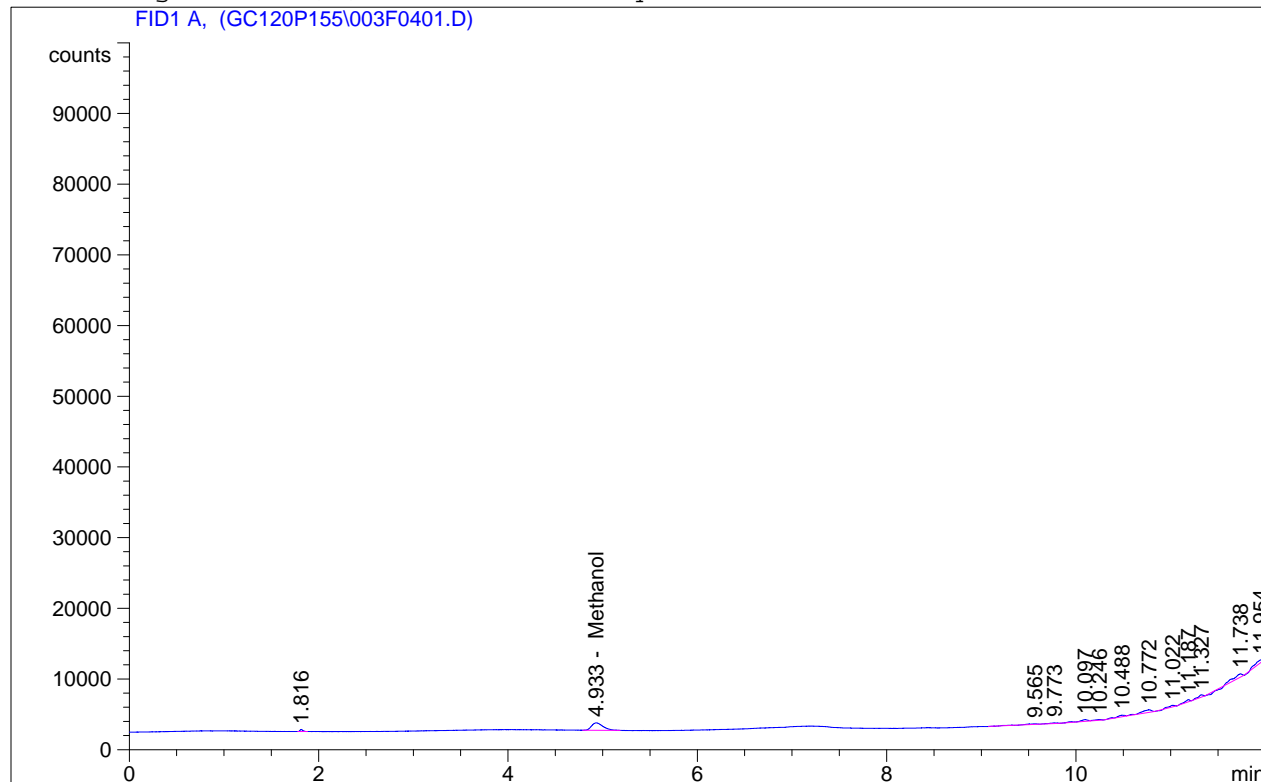
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.941	BB	1797.80603	1.77717e-3	3.19501		Methanol

Totals : 3.19501

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    4
Acq. Instrument : Penn online                  Location  : Vial 3
Injection Date  : 8/29/2011 11:33:44 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

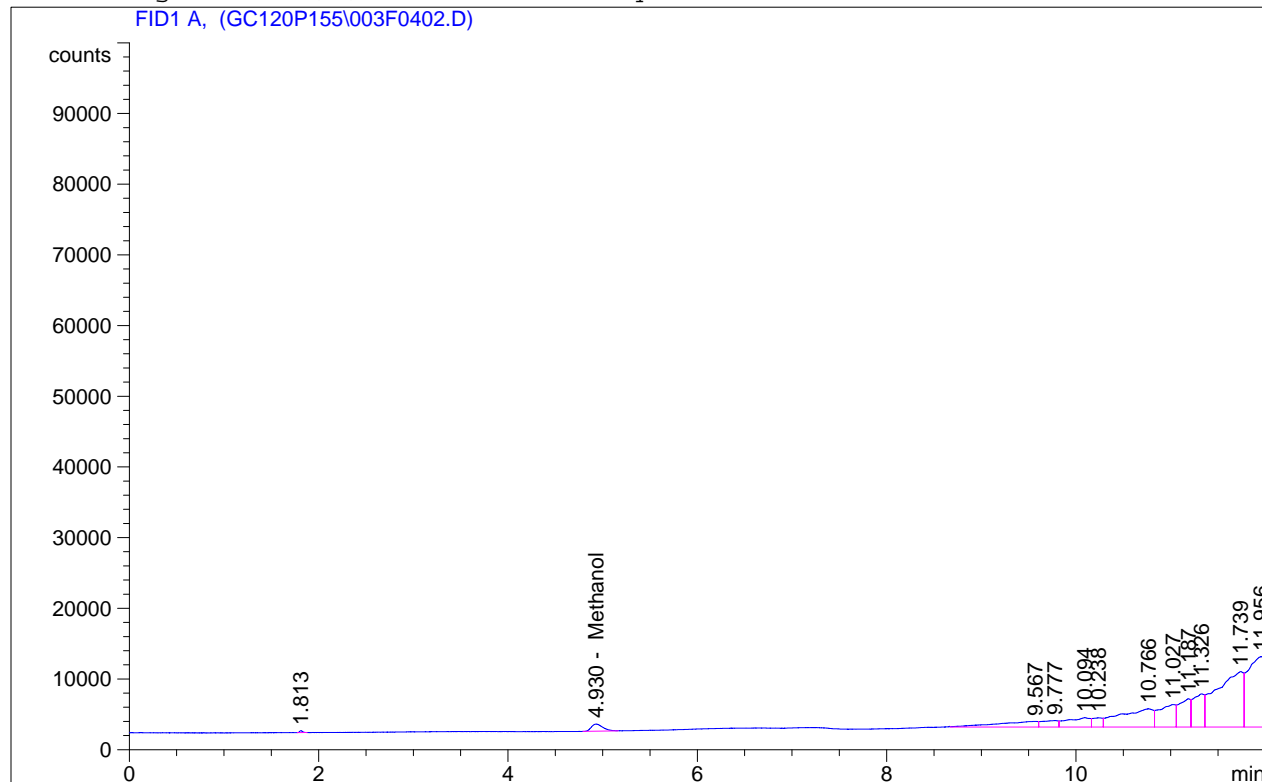
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.933	BB	8900.16895	1.71281e-3	15.24428		Methanol

Totals : 15.24428

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    4
Acq. Instrument : Penn online                  Location  : Vial 3
Injection Date  : 8/29/2011 11:56:28 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

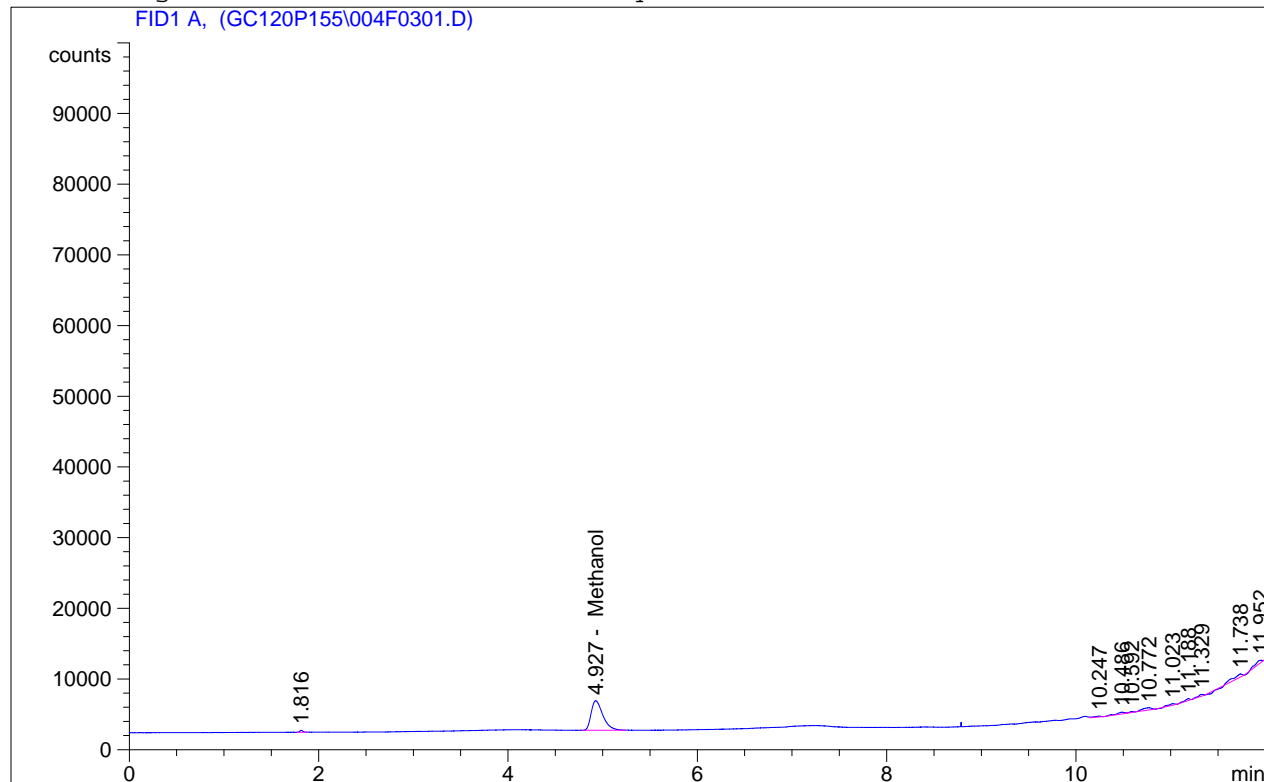
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.930	BB	8501.28613	1.71357e-3	14.56756		Methanol

Totals : 14.56756

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    3
Acq. Instrument : Penn online                  Location  : Vial 4
Injection Date  : 8/29/2011 10:48:12 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

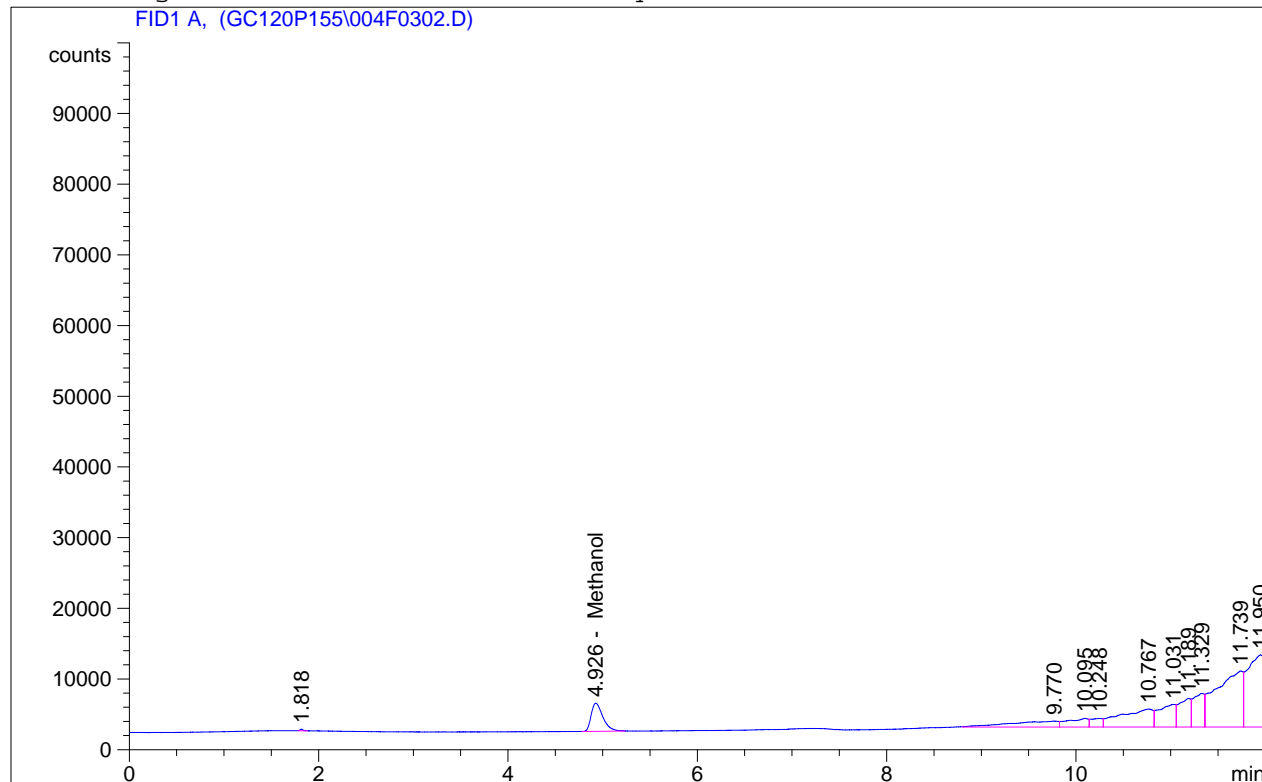
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.927	BB	3.58473e4	1.70056e-3	60.96049		Methanol

Totals : 60.96049

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    3
Acq. Instrument : Penn online                  Location  : Vial 4
Injection Date  : 8/29/2011 11:10:56 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

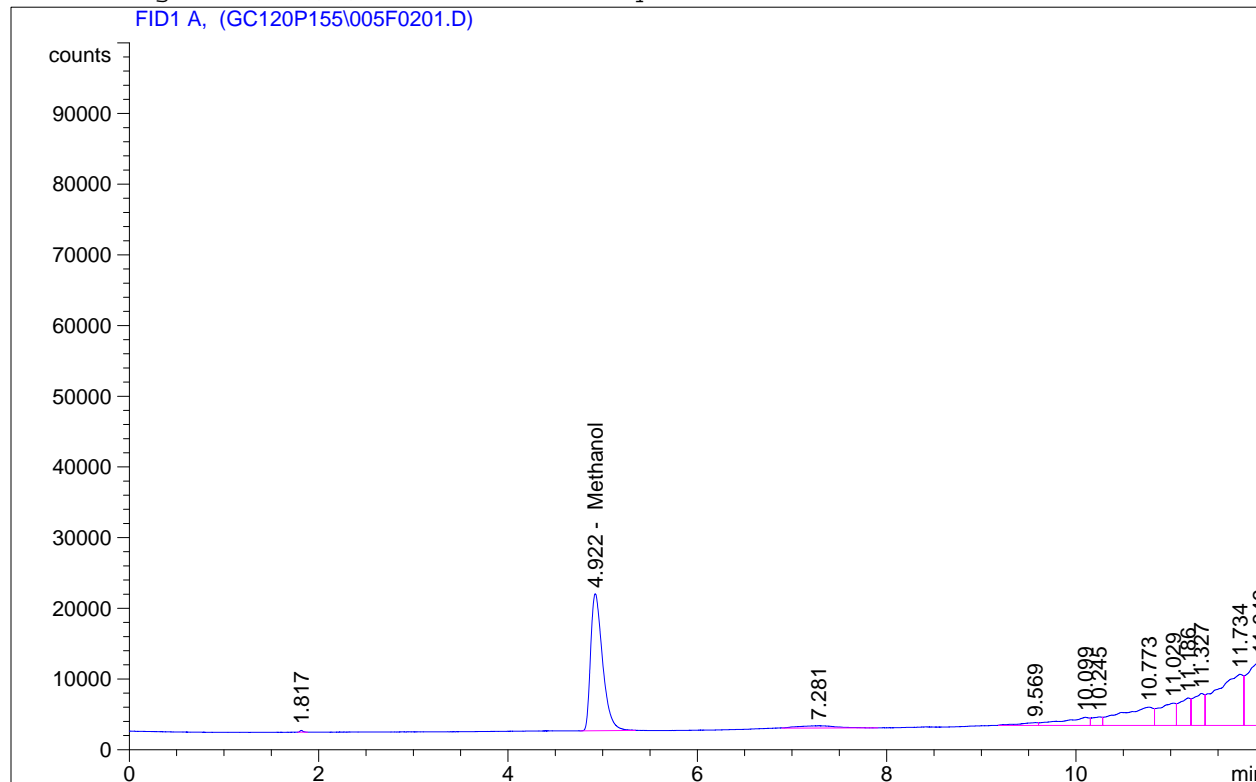
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.926	BB	3.41928e4	1.70076e-3	58.15351		Methanol

Totals : 58.15351

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    2
Acq. Instrument : Penn online                  Location  : Vial 5
Injection Date  : 8/29/2011 10:02:27 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

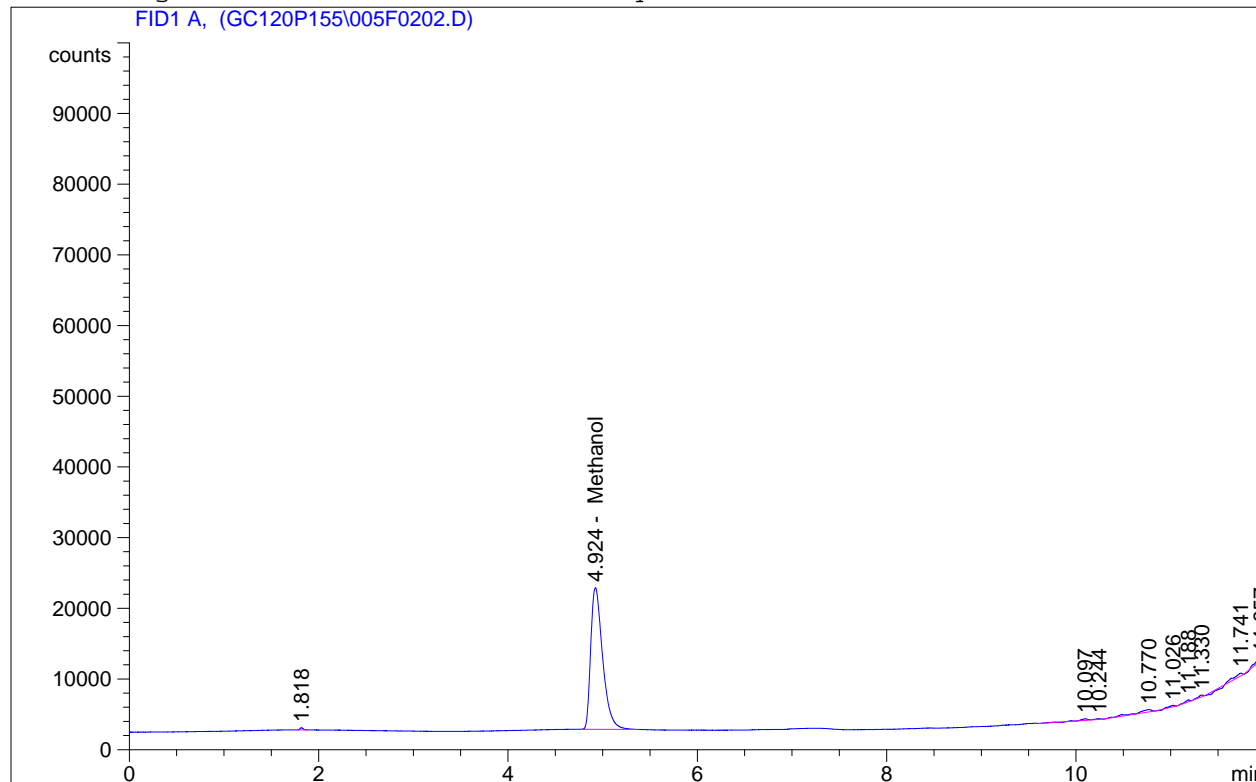
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.922	BB	1.69766e5	1.69737e-3	288.15508		Methanol

Totals : 288.15508

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    2
Acq. Instrument : Penn online                  Location  : Vial 5
Injection Date  : 8/29/2011 10:25:15 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.924	BB	1.75209e5	1.69734e-3	297.38952		Methanol

Totals : 297.38952

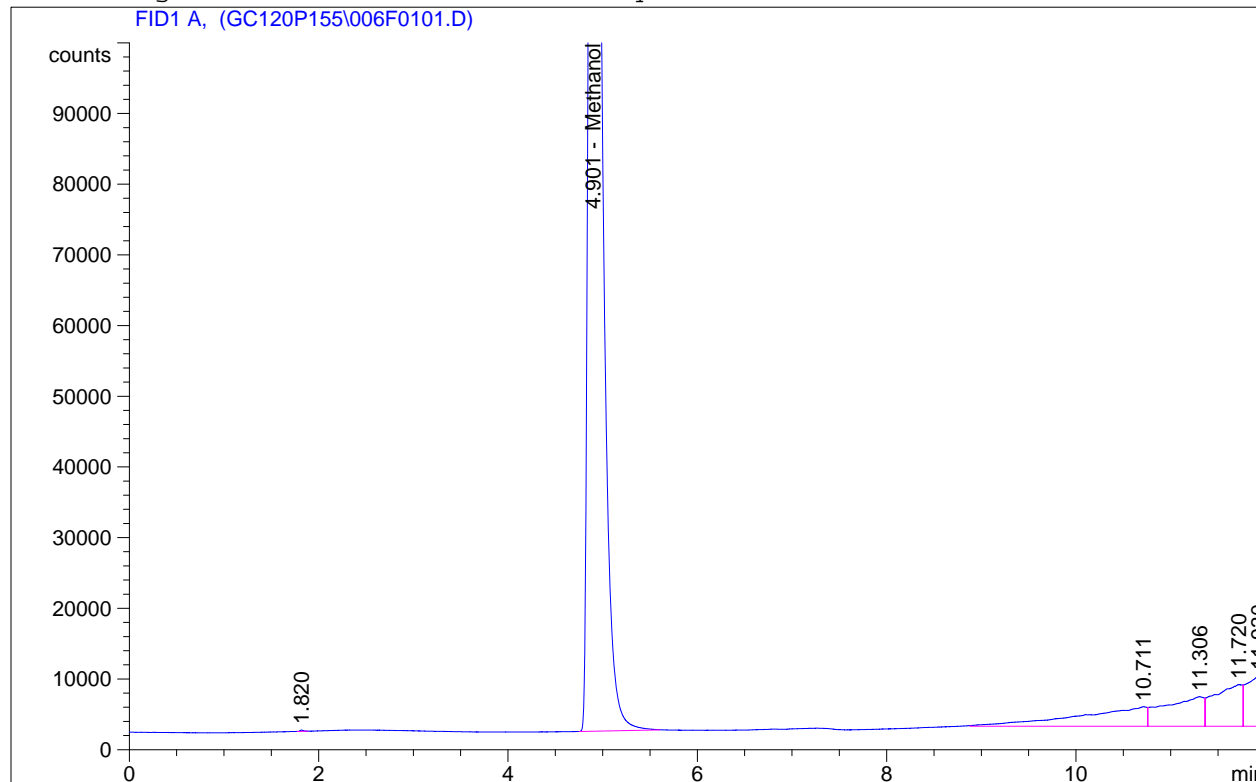
Signal 2: FID2 B, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    1
Acq. Instrument : Penn online                  Location  : Vial 6
Injection Date  : 8/29/2011 9:17:01 AM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID1 A,

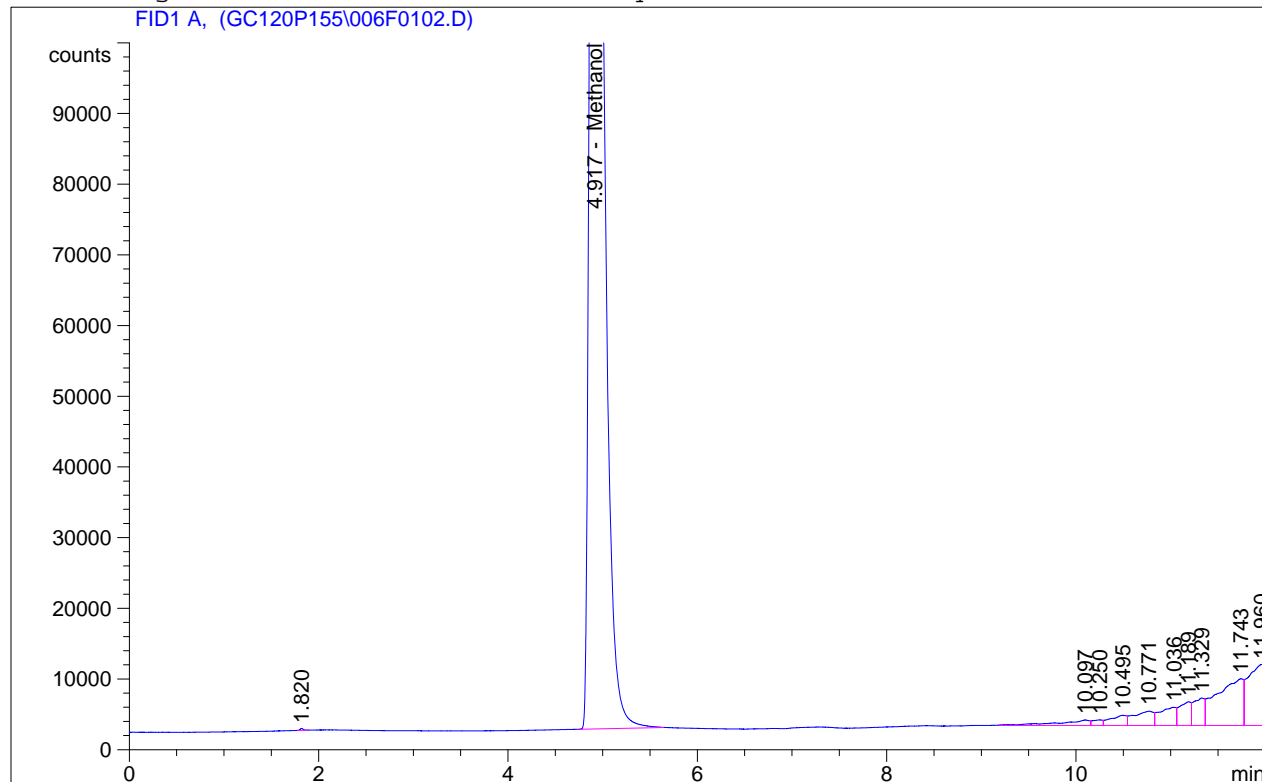
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.901	BB	1.95051e6	1.69659e-3	3309.22011		Methanol

Totals : 3309.22011

Signal 2: FID2 B, not found


```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    1
Acq. Instrument : Penn online                  Location  : Vial 6
Injection Date  : 8/29/2011 9:39:29 AM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 A,

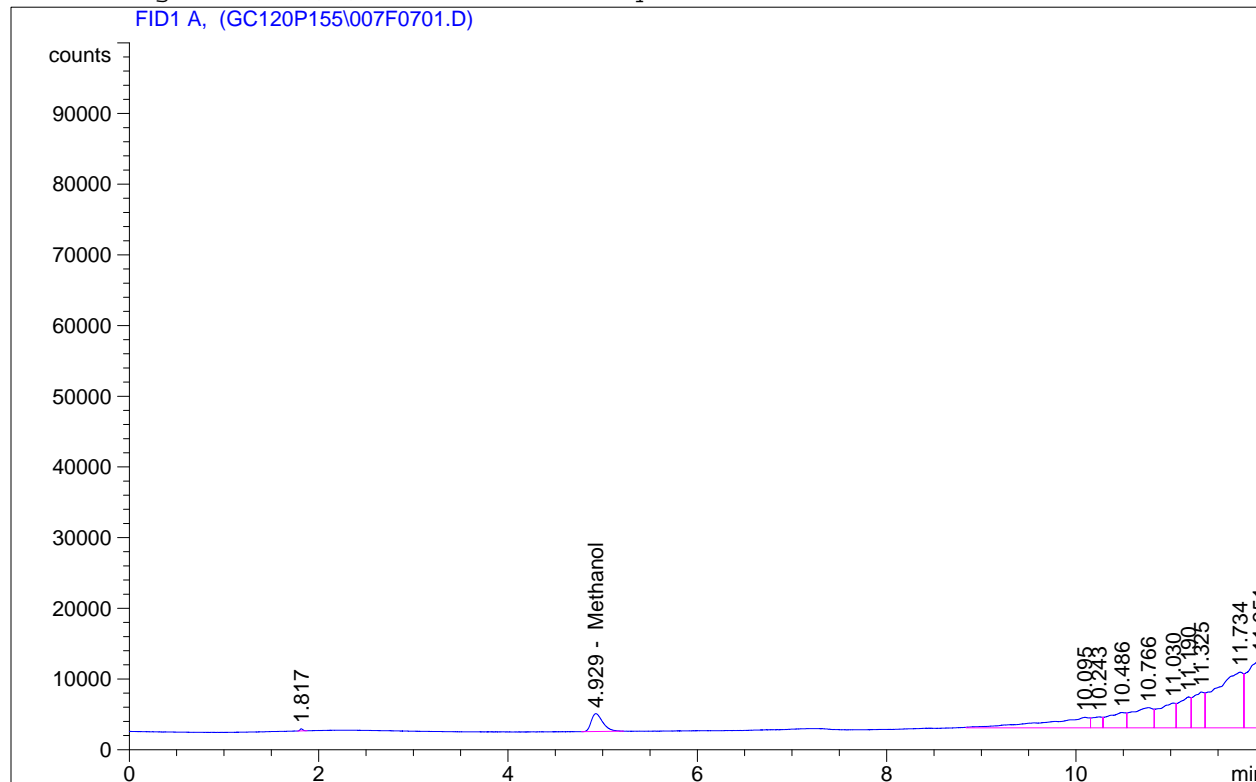
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.917	BB	2.05144e6	1.69659e-3	3480.43722		Methanol

Totals : 3480.43722

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    7
Acq. Instrument : Penn online                  Location  : Vial 7
Injection Date  : 8/29/2011 1:51:11 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



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=====
                        External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

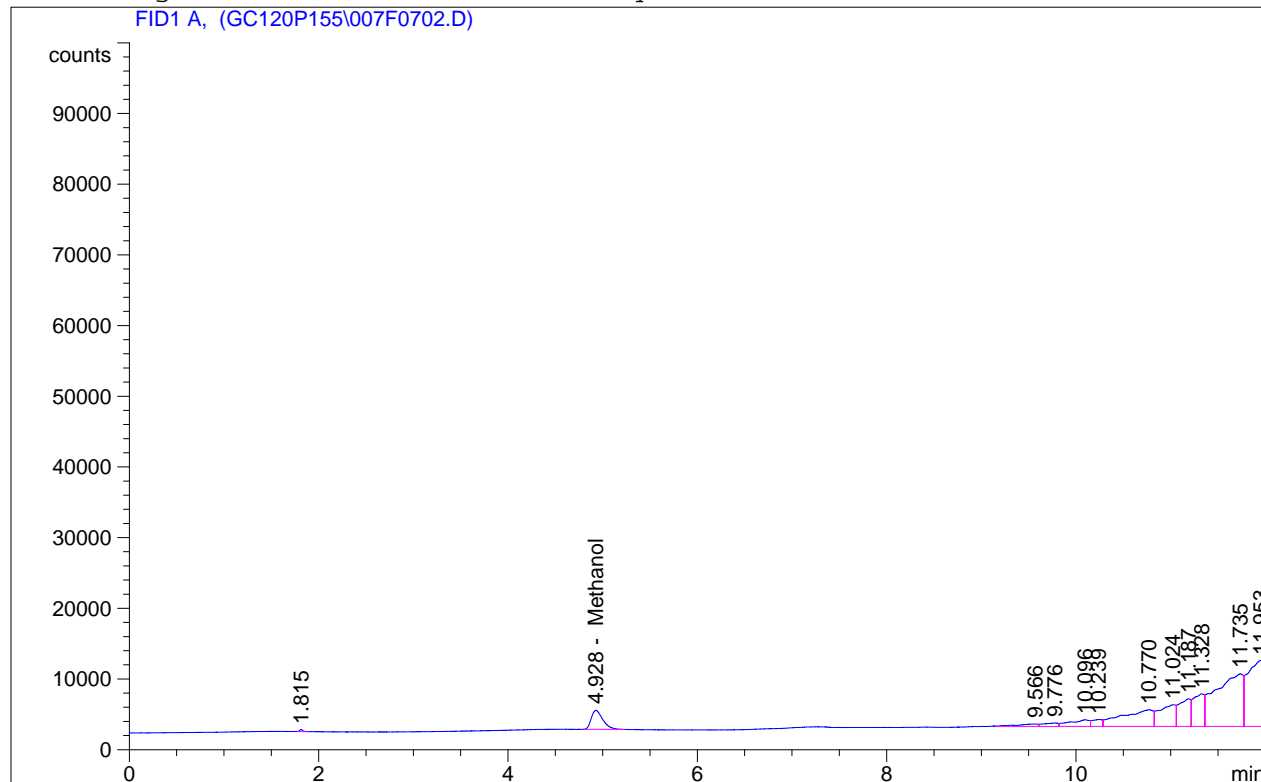
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.929	BB	2.15296e4	1.70325e-3	36.67024		Methanol

Totals : 36.67024

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    7
Acq. Instrument : Penn online                  Location  : Vial 7
Injection Date  : 8/29/2011 2:13:58 PM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

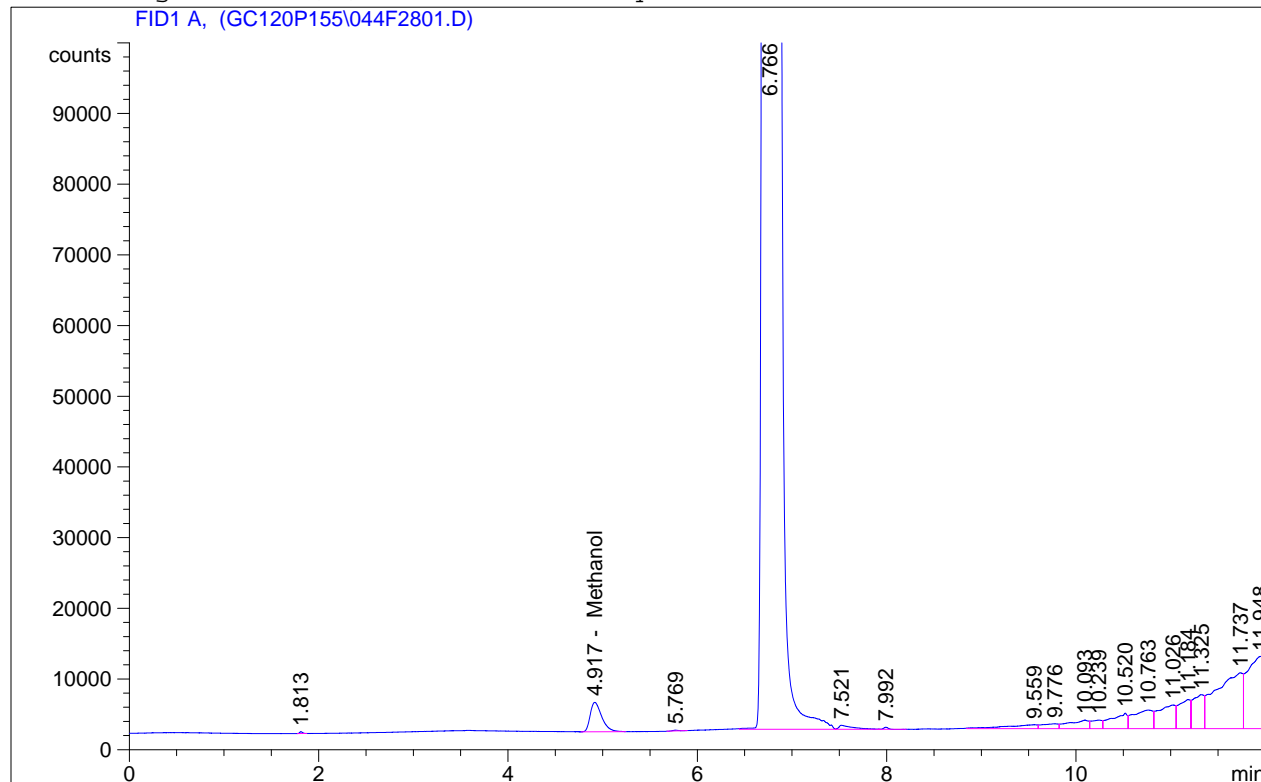
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.928	BB	2.28721e4	1.70285e-3	38.94779		Methanol

Totals : 38.94779

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   28
Acq. Instrument : Penn online                  Location  : Vial 44
Injection Date  : 8/30/2011 5:46:43 AM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

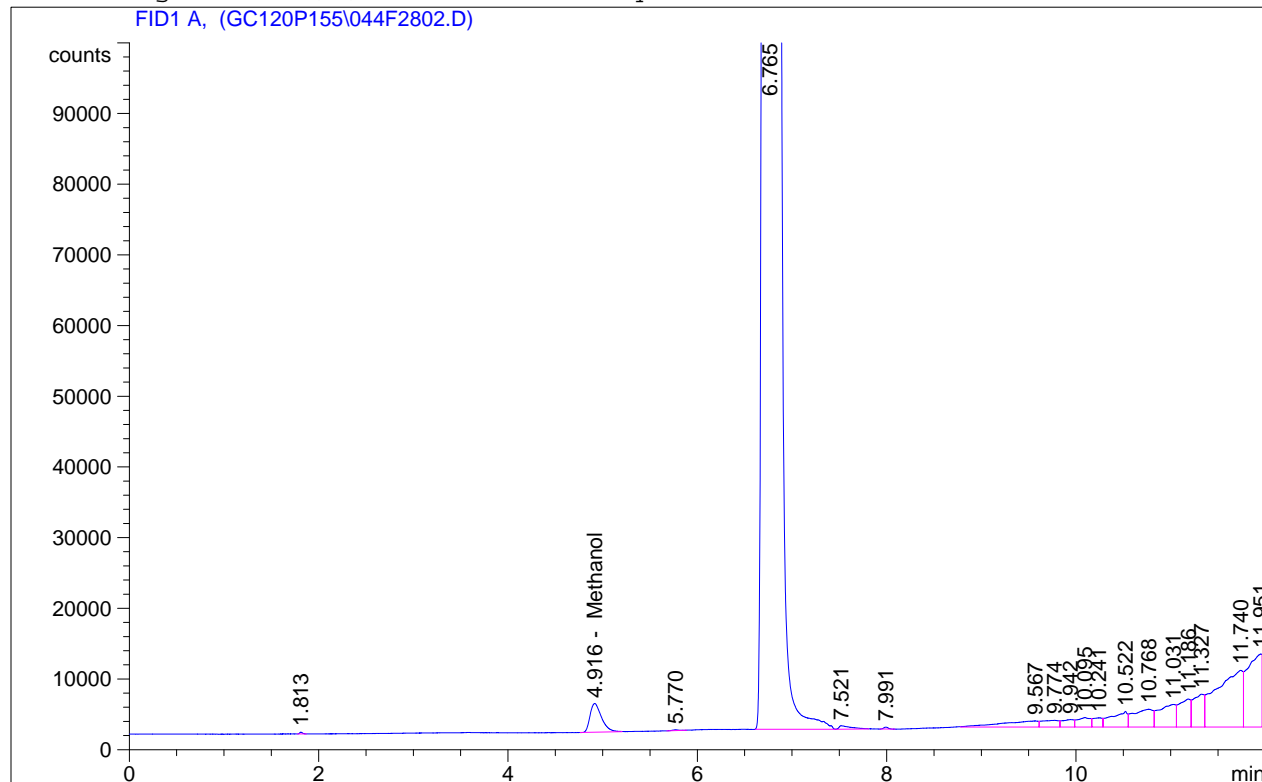
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.917	BB	3.50375e4	1.70065e-3	59.58655		Methanol

Totals : 59.58655

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   28
Acq. Instrument : Penn online                  Location  : Vial 44
Injection Date  : 8/30/2011 6:09:26 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

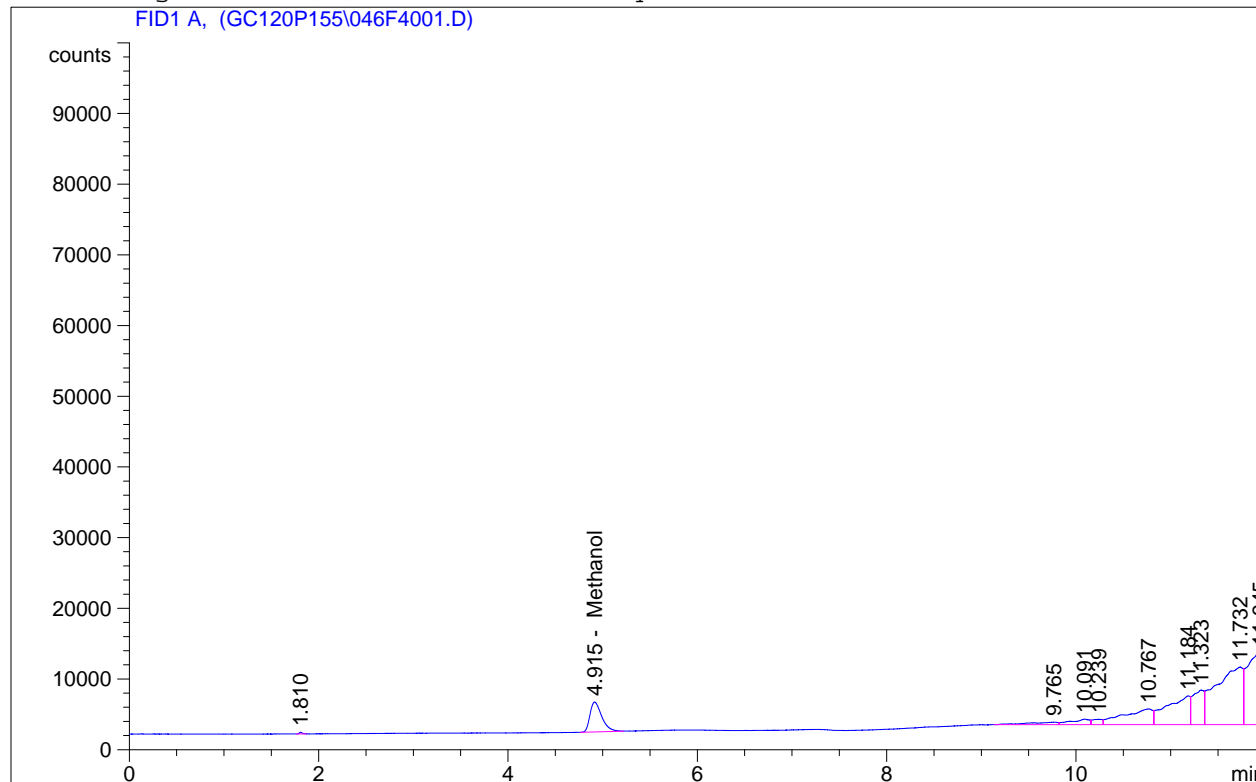
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.916	BB	3.41365e4	1.70076e-3	58.05800		Methanol

Totals : 58.05800

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   40
Acq. Instrument : Penn online                  Location  : Vial 46
Injection Date  : 8/30/2011 2:50:14 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

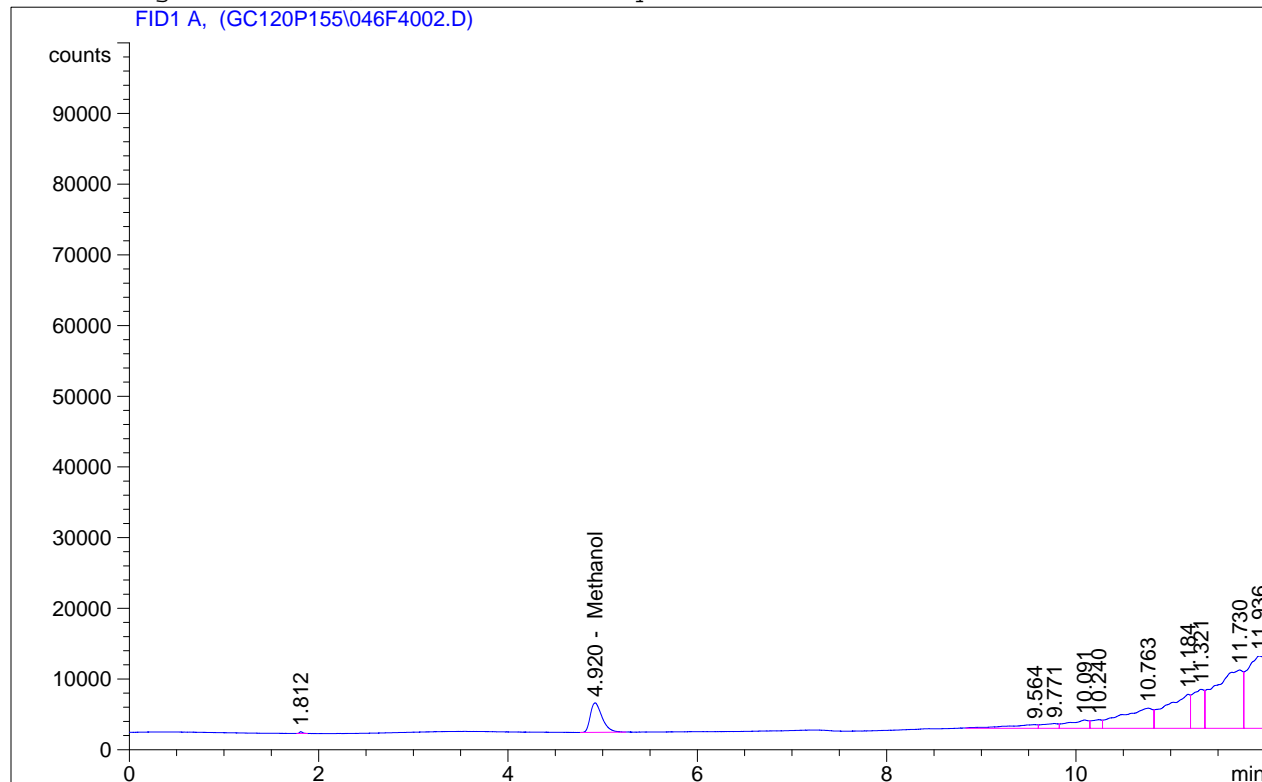
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.915	BB	3.64054e4	1.70050e-3	61.90727		Methanol

Totals : 61.90727

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   40
Acq. Instrument : Penn online                  Location  : Vial 46
Injection Date  : 8/30/2011 3:12:49 PM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

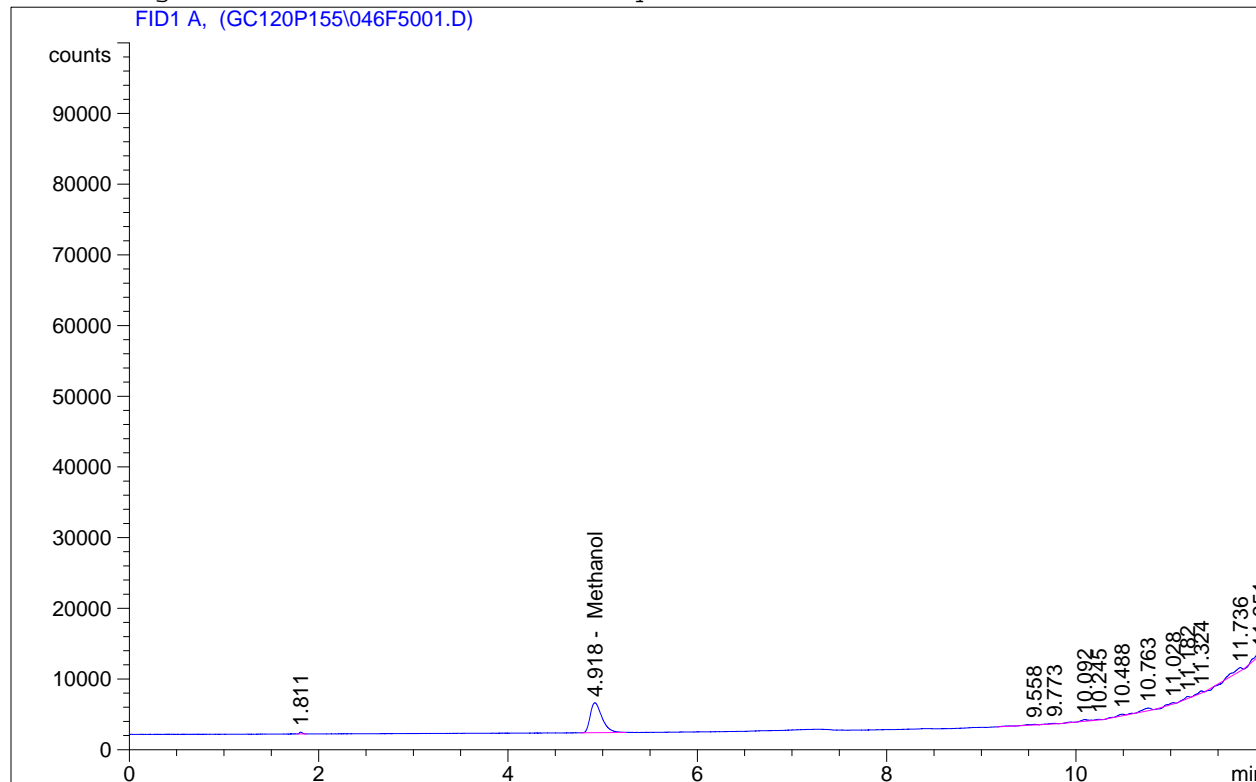
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.920	BB	3.58606e4	1.70056e-3	60.98312		Methanol

Totals : 60.98312

Signal 2: FID2 B, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   50
Acq. Instrument : Penn online                  Location  : Vial 46
Injection Date  : 8/30/2011 10:20:37 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

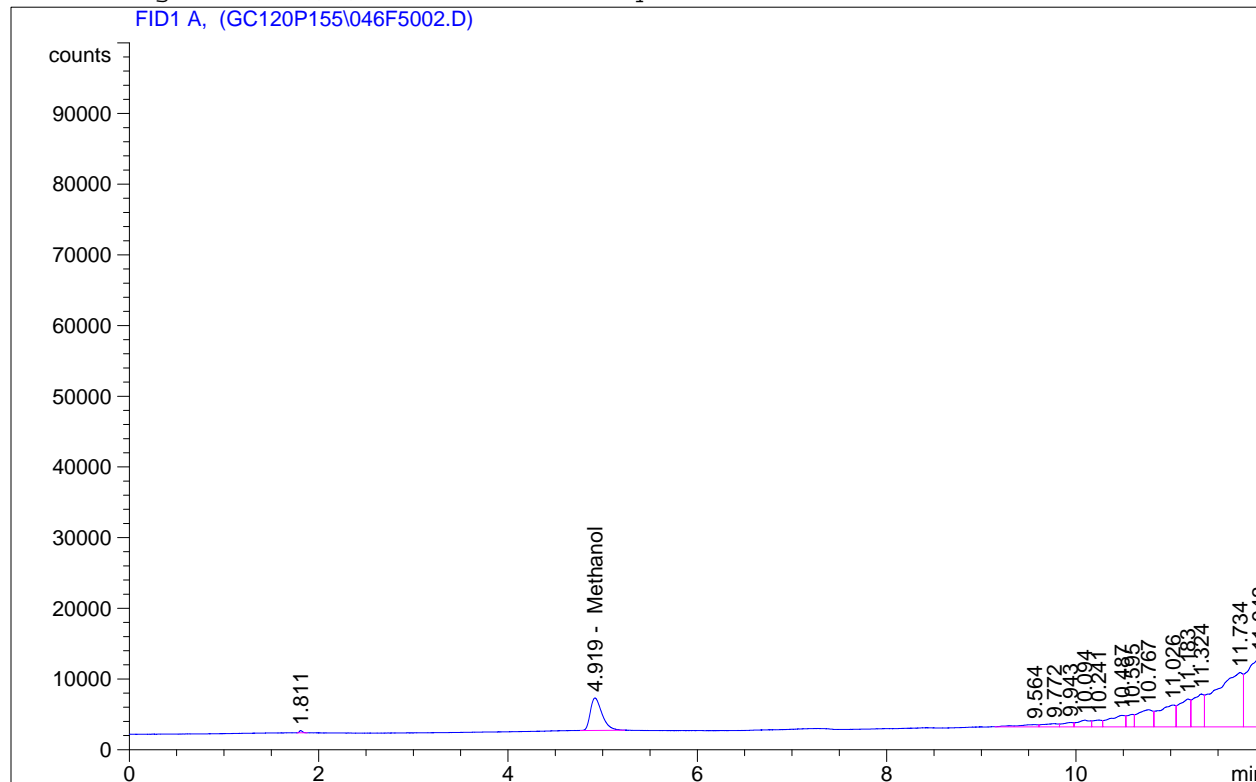
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.918	BB	3.64265e4	1.70050e-3	61.94315		Methanol

Totals : 61.94315

Signal 2: FID2 B, not found


```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   50
Acq. Instrument : Penn online                  Location  : Vial 46
Injection Date  : 8/30/2011 10:43:13 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.919	BB	3.93830e4	1.70020e-3	66.95889		Methanol

Totals : 66.95889

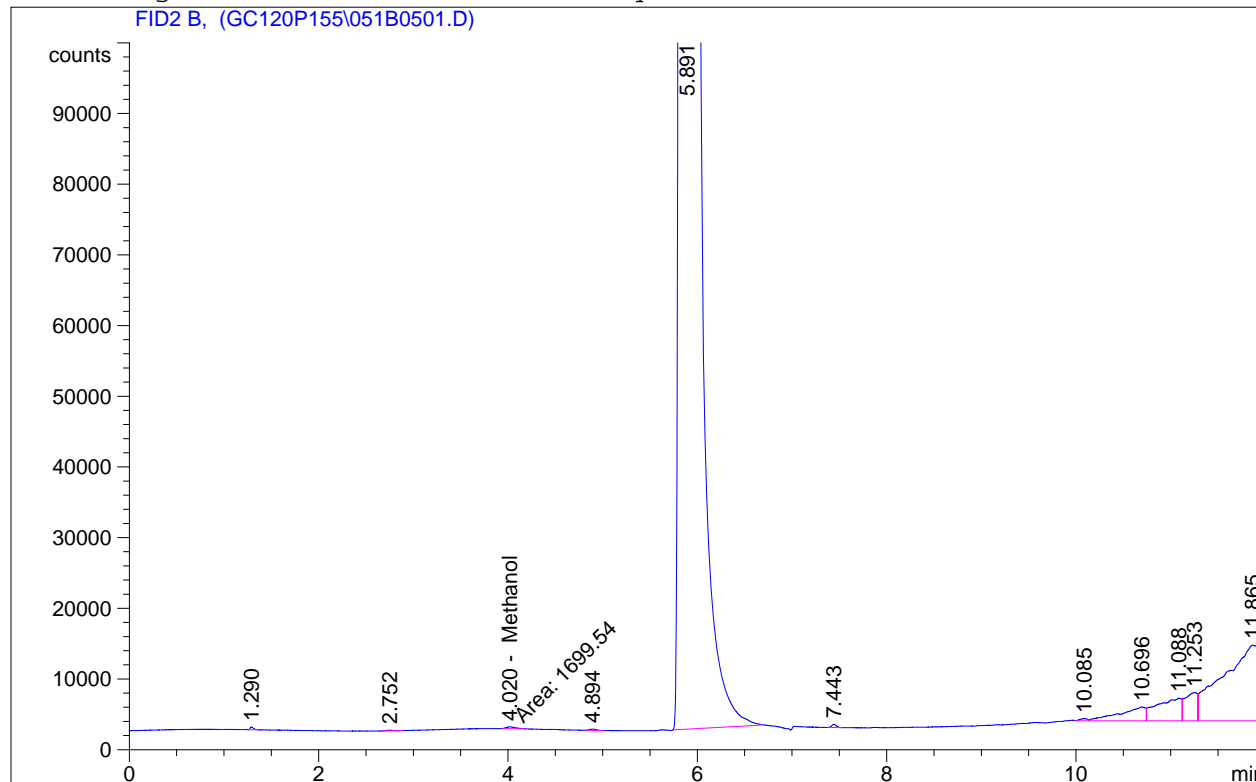
Signal 2: FID2 B, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    5
Acq. Instrument : Penn online                  Location  : Vial 51
Injection Date  : 8/29/2011 12:19:16 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.020	MM	1699.54065	9.45240e-4	1.60647		Methanol

Manual Int. "IF" (CJT)

Totals : 1.60647

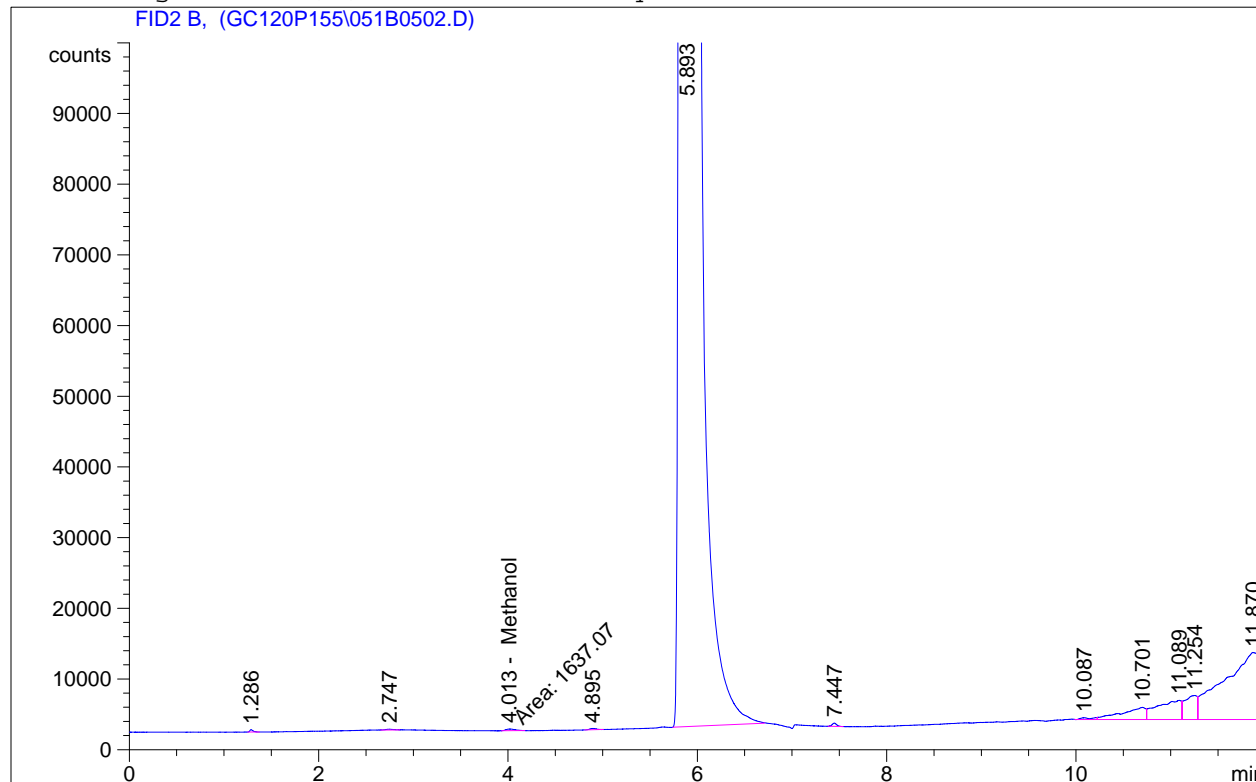
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    5
Acq. Instrument : Penn online                  Location  : Vial 51
Injection Date  : 8/29/2011 12:42:21 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

Sorted By      : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.013	MM	1637.07117	9.43264e-4	1.54419		Methanol

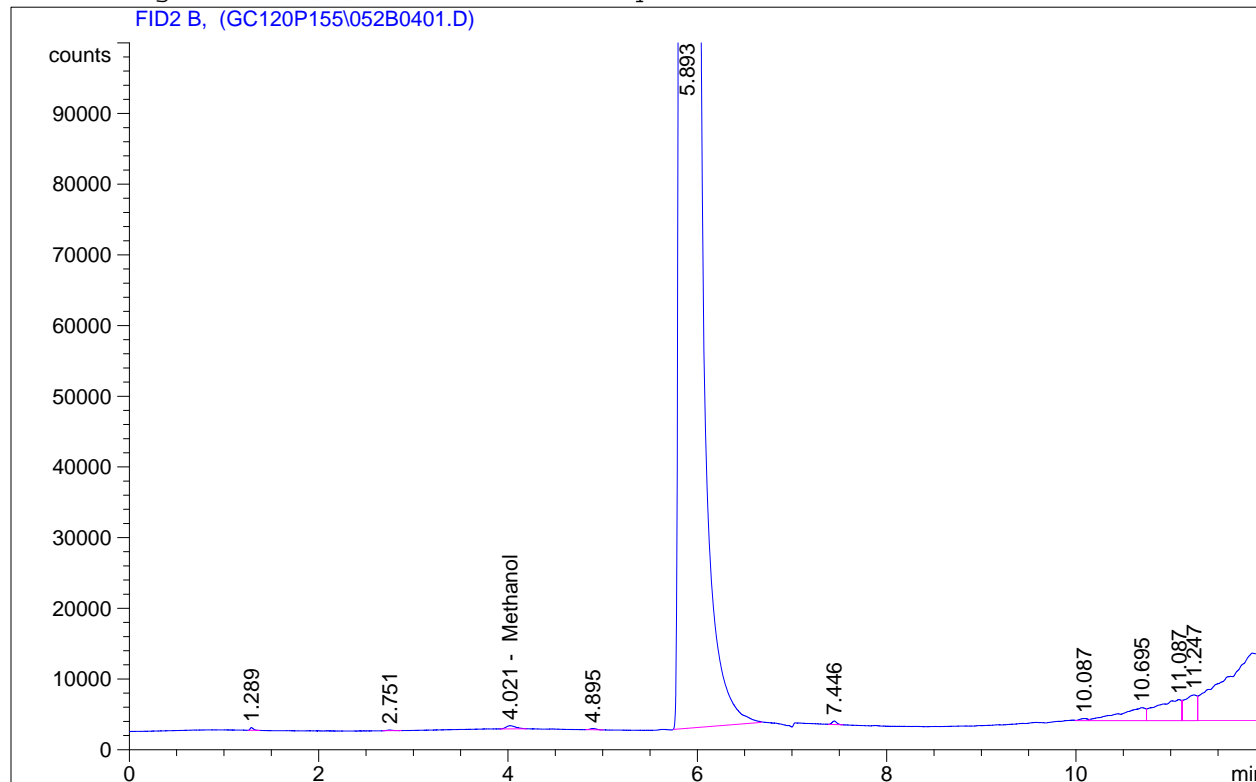
Manual Int. "IF" (CJT)

Totals : 1.54419

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    4
Acq. Instrument : Penn online                  Location  : Vial 52
Injection Date  : 8/29/2011 11:33:44 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           : Signal
Calib. Data Modified : 9/1/2011 1:03:59 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

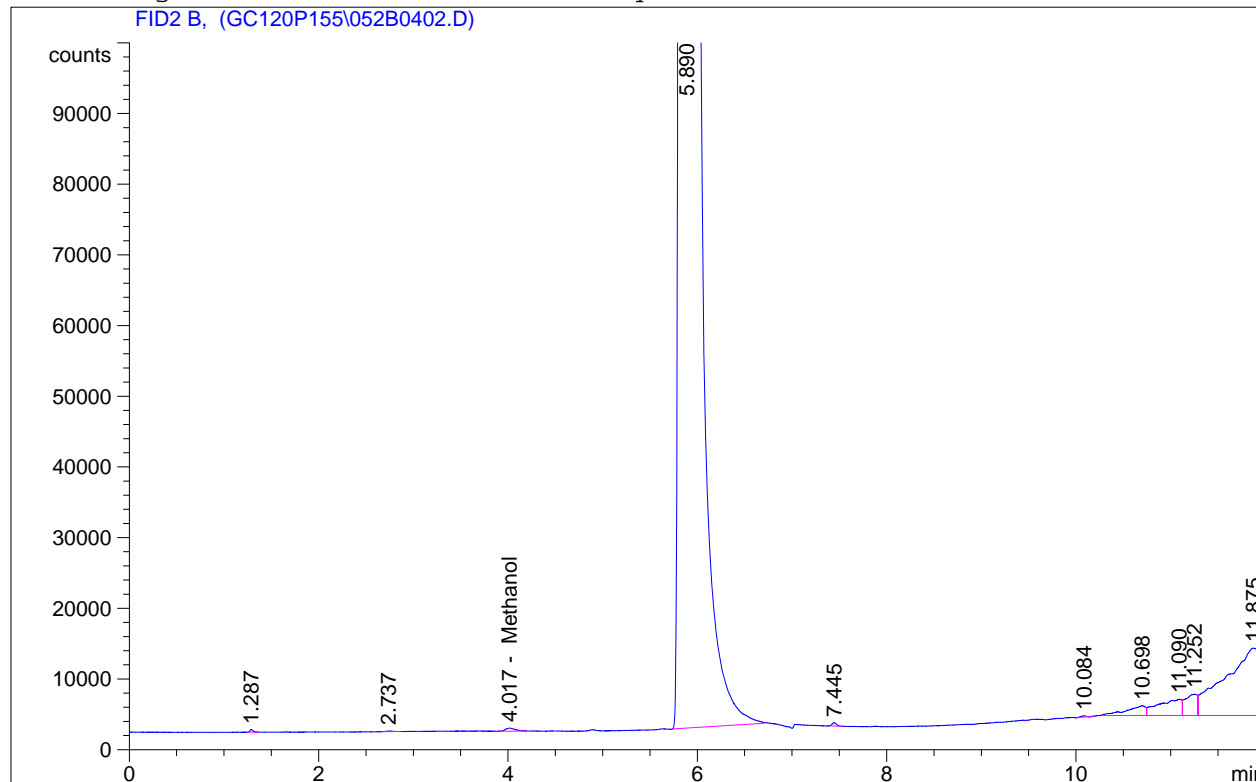
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.021	BB	3296.71509	1.01066e-3	3.33186		Methanol

Totals : 3.33186

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    4
Acq. Instrument : Penn online                  Location  : Vial 52
Injection Date  : 8/29/2011 11:56:28 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

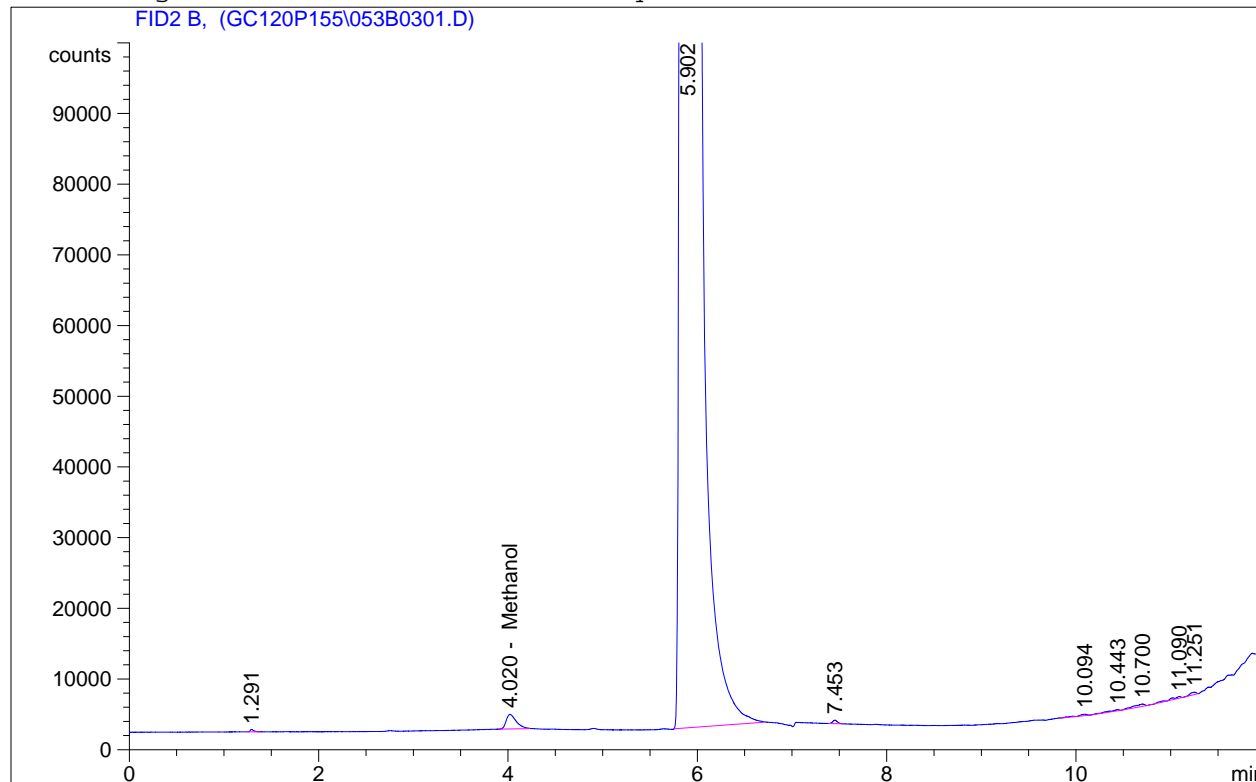
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.017	BB	3029.43262	1.00452e-3	3.04312		Methanol

Totals : 3.04312

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    3
Acq. Instrument : Penn online                  Location  : Vial 53
Injection Date  : 8/29/2011 10:48:12 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



External Standard Report

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

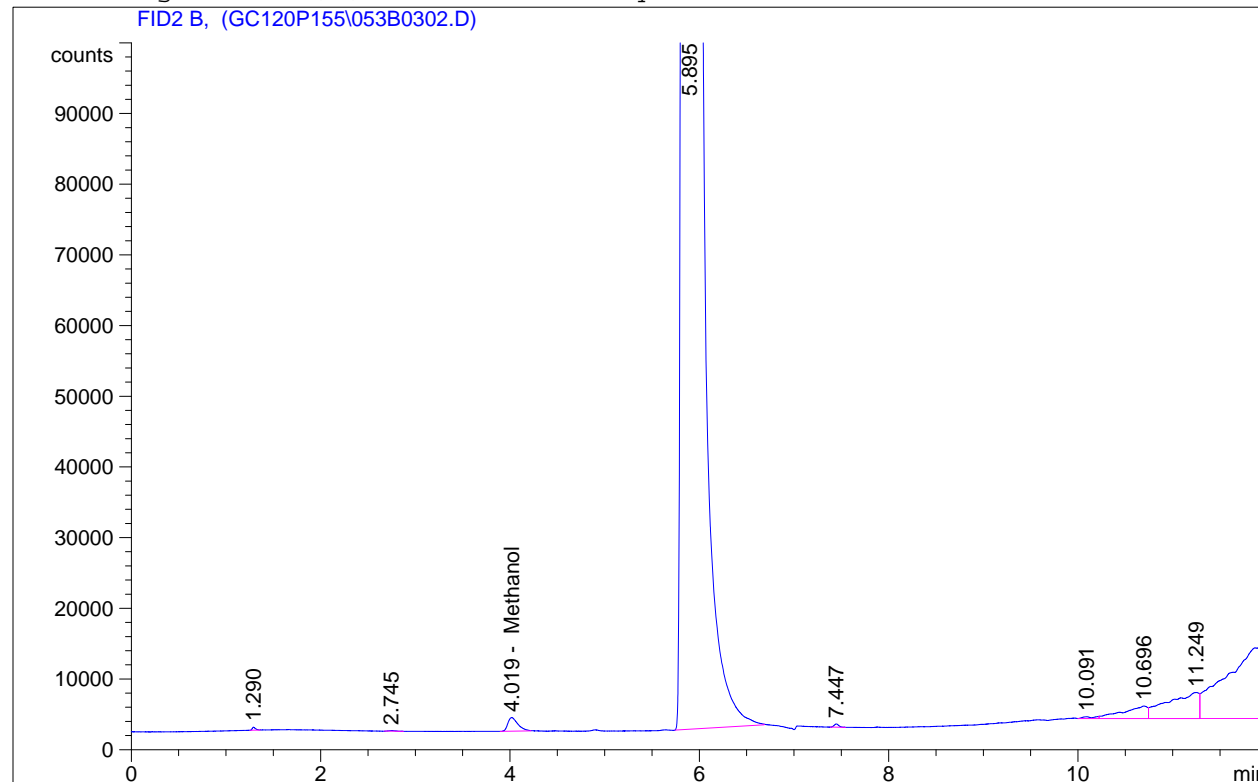
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.020	BB	1.53791e4	1.06535e-3	16.38419		Methanol

Totals : 16.38419

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    3
Acq. Instrument : Penn online                  Location  : Vial 53
Injection Date  : 8/29/2011 11:10:56 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.019	BB	1.41001e4	1.06400e-3	15.00254		Methanol

Totals : 15.00254

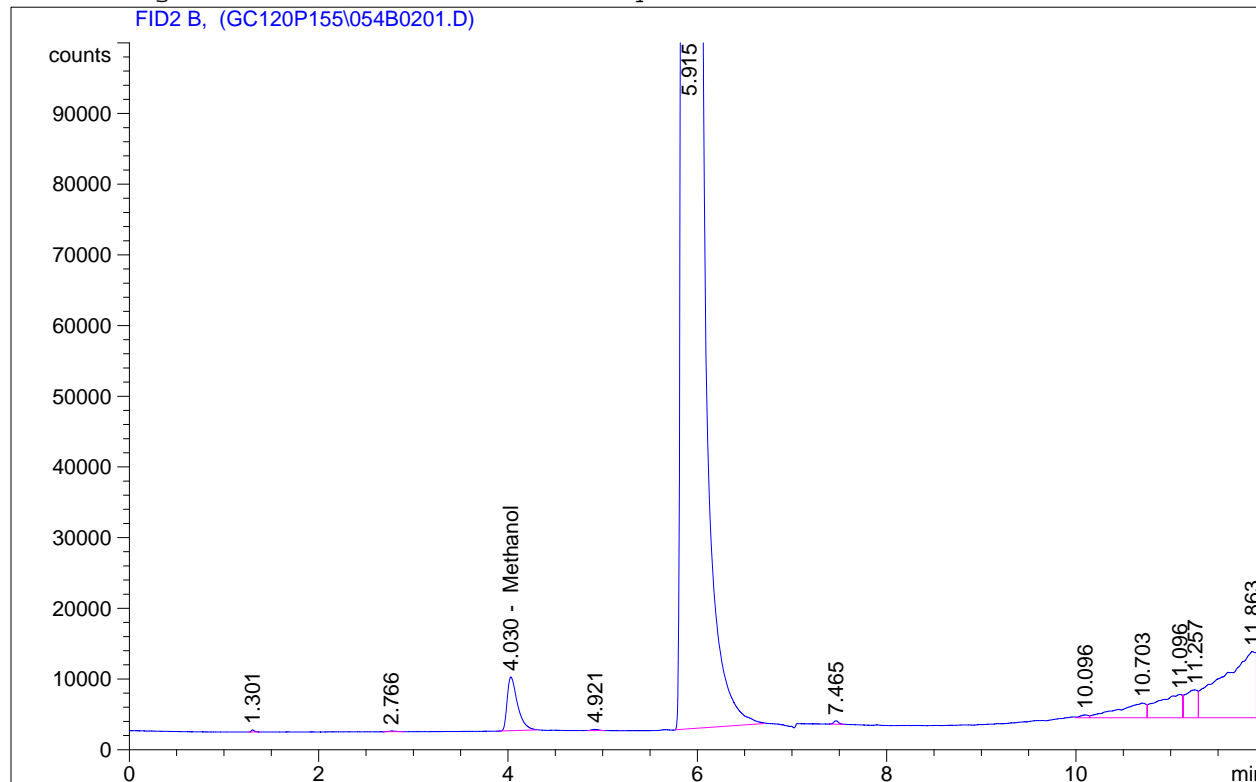
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :    2
Acq. Instrument : Penn online                  Location  : Vial 54
Injection Date  : 8/29/2011 10:02:27 AM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID2 B,

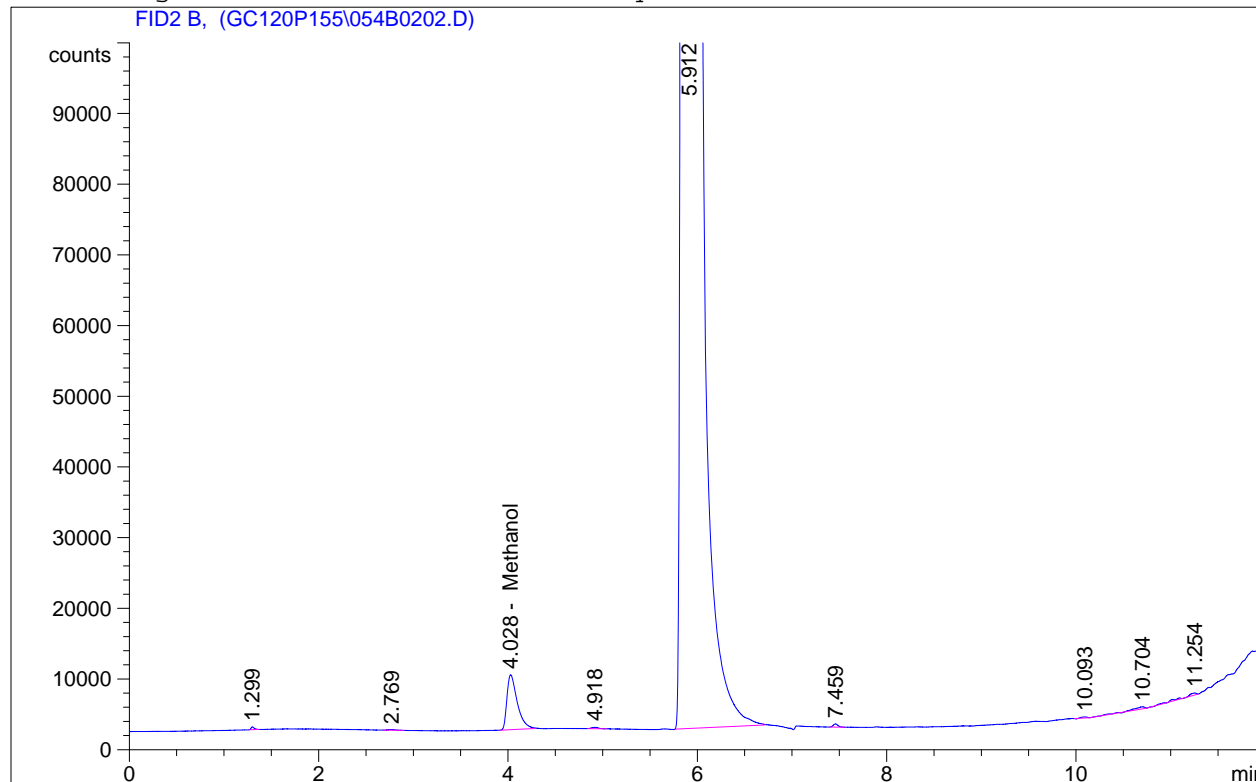
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.030	BB	5.74352e4	1.07628e-3	61.81639		Methanol

Totals : 61.81639

Signal 2: FID1 A, not found


```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    2
Acq. Instrument : Penn online                  Location  : Vial 54
Injection Date  : 8/29/2011 10:25:15 AM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

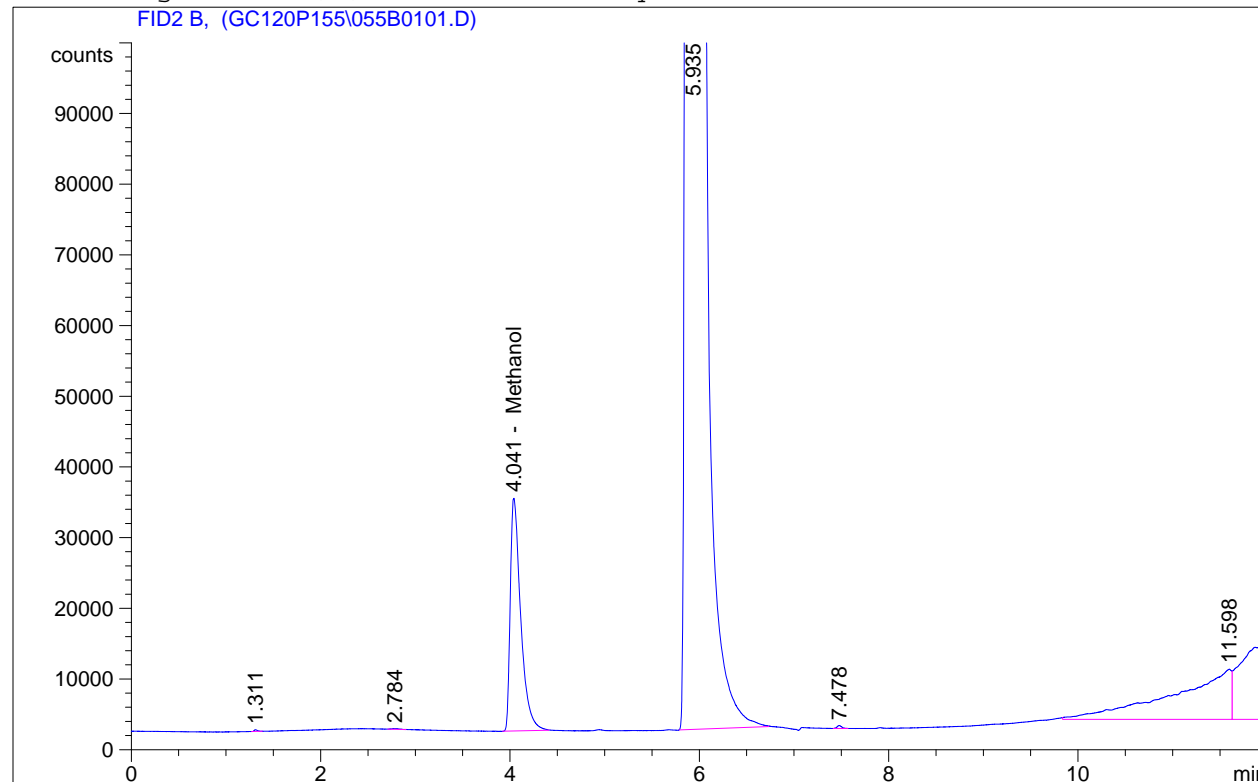
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.028	BB	5.85996e4	1.07636e-3	63.07419		Methanol

Totals : 63.07419

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    1
Acq. Instrument : Penn online                  Location  : Vial 55
Injection Date  : 8/29/2011 9:17:01 AM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



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=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

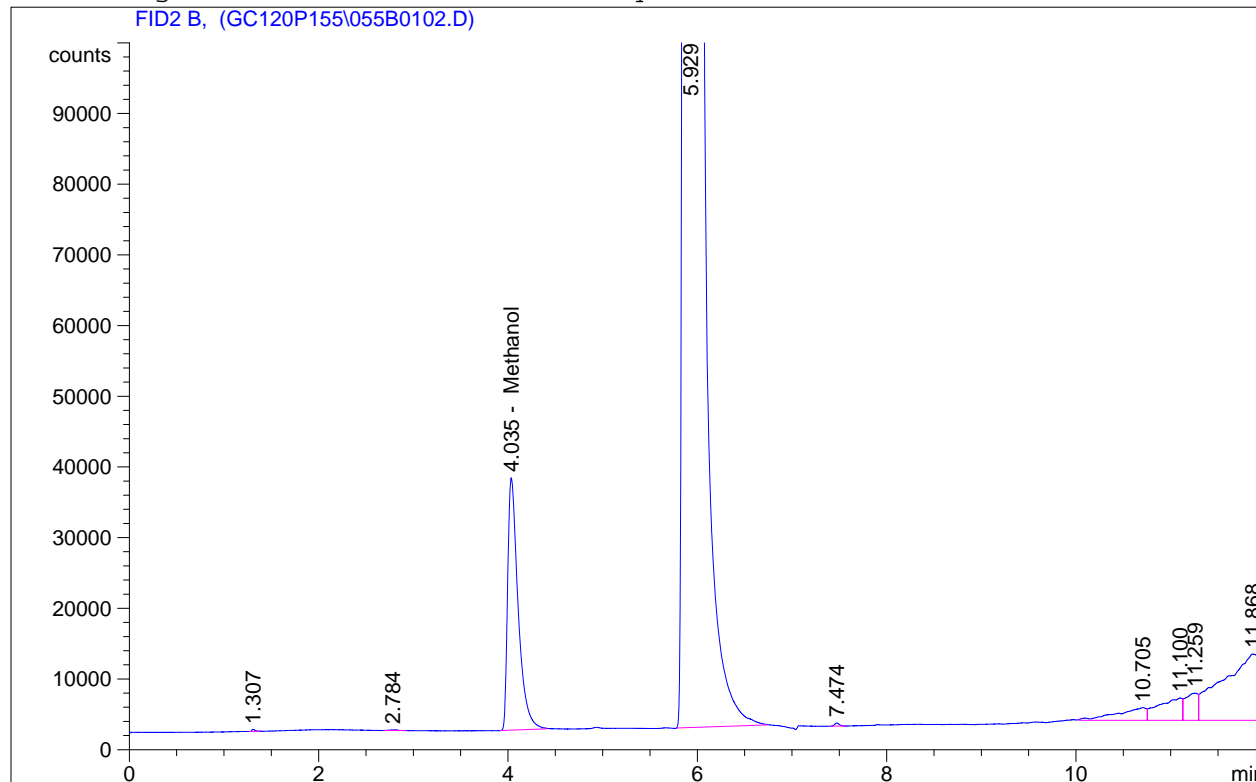
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.041	BB	2.52757e5	1.07937e-3	272.81804		Methanol

Totals : 272.81804

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    1
Acq. Instrument : Penn online                  Location  : Vial 55
Injection Date  : 8/29/2011 9:39:29 AM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



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                        External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

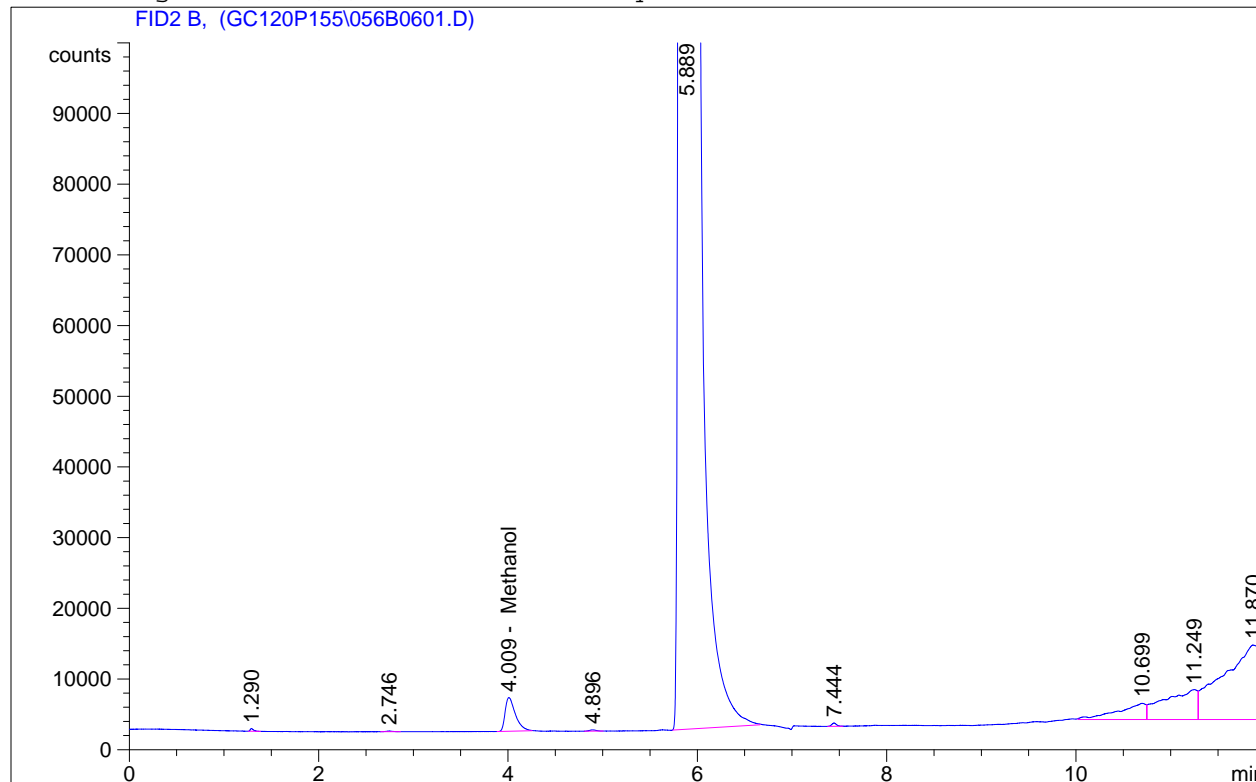
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.035	BB	2.74133e5	1.07944e-3	295.90994		Methanol

Totals : 295.90994

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    6
Acq. Instrument : Penn online                  Location  : Vial 56
Injection Date  : 8/29/2011 1:05:22 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

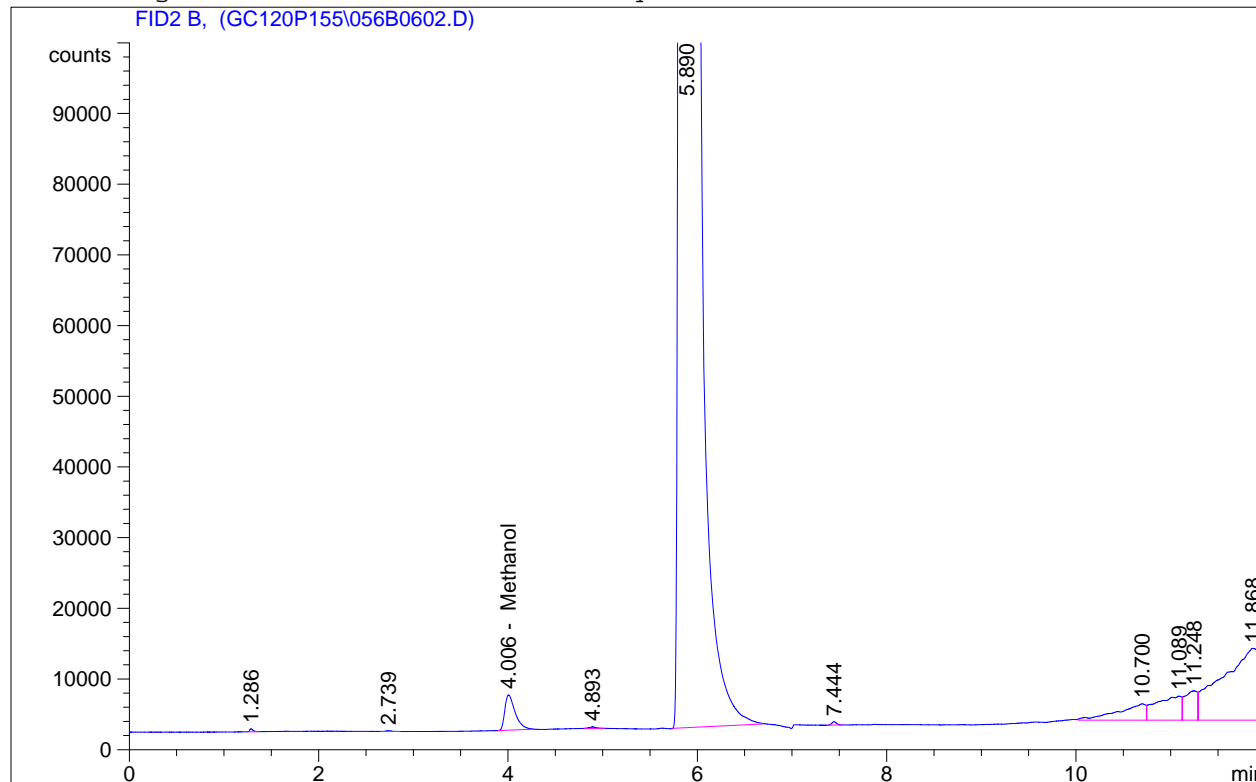
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.009	BB	3.58574e4	1.07388e-3	38.50633		Methanol

Totals : 38.50633

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :    6
Acq. Instrument : Penn online                  Location  : Vial 56
Injection Date  : 8/29/2011 1:28:23 PM          Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



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=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.006	BB	3.74634e4	1.07415e-3	40.24127		Methanol

Totals : 40.24127

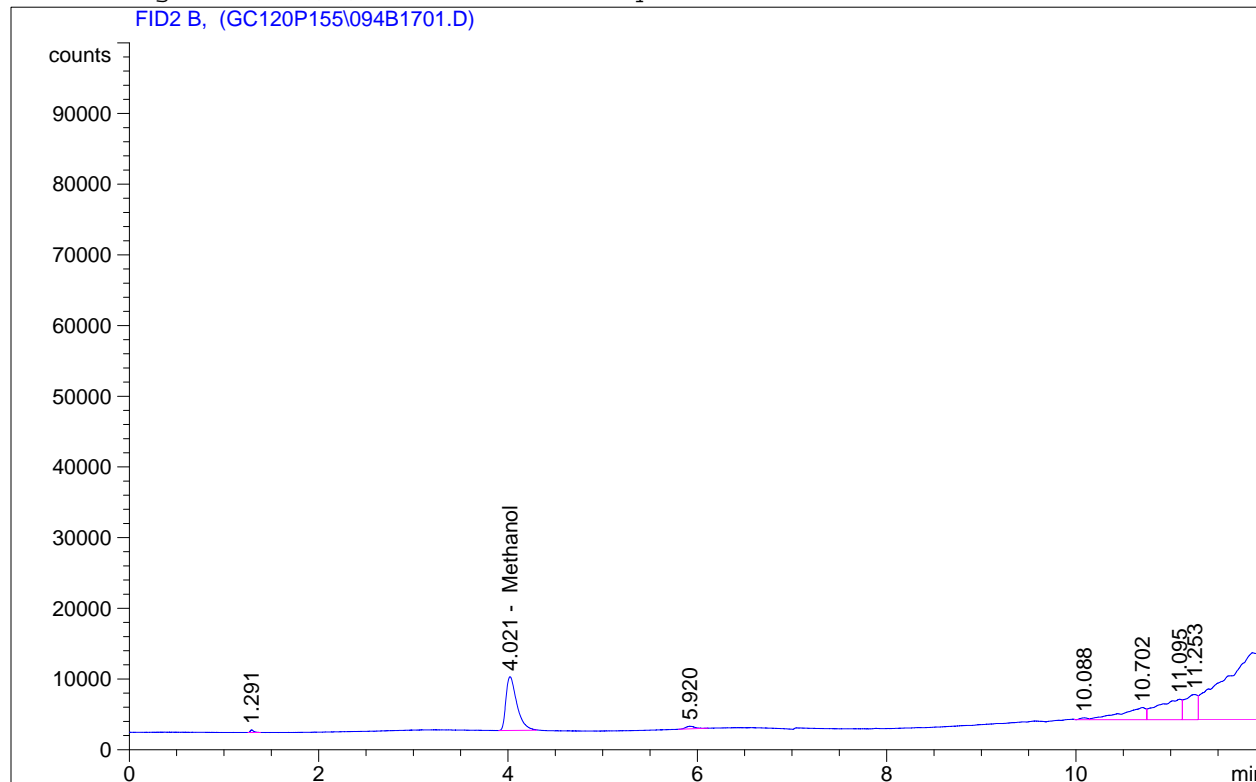
Signal 2: FID1 A, not found

```

=====
Acq. Operator   : CJT/KLM                      Seq. Line :   17
Acq. Instrument : Penn online                  Location  : Vial 94
Injection Date  : 8/29/2011 9:27:13 PM        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====

```



External Standard Report

```

=====
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====

```

Signal 1: FID2 B,

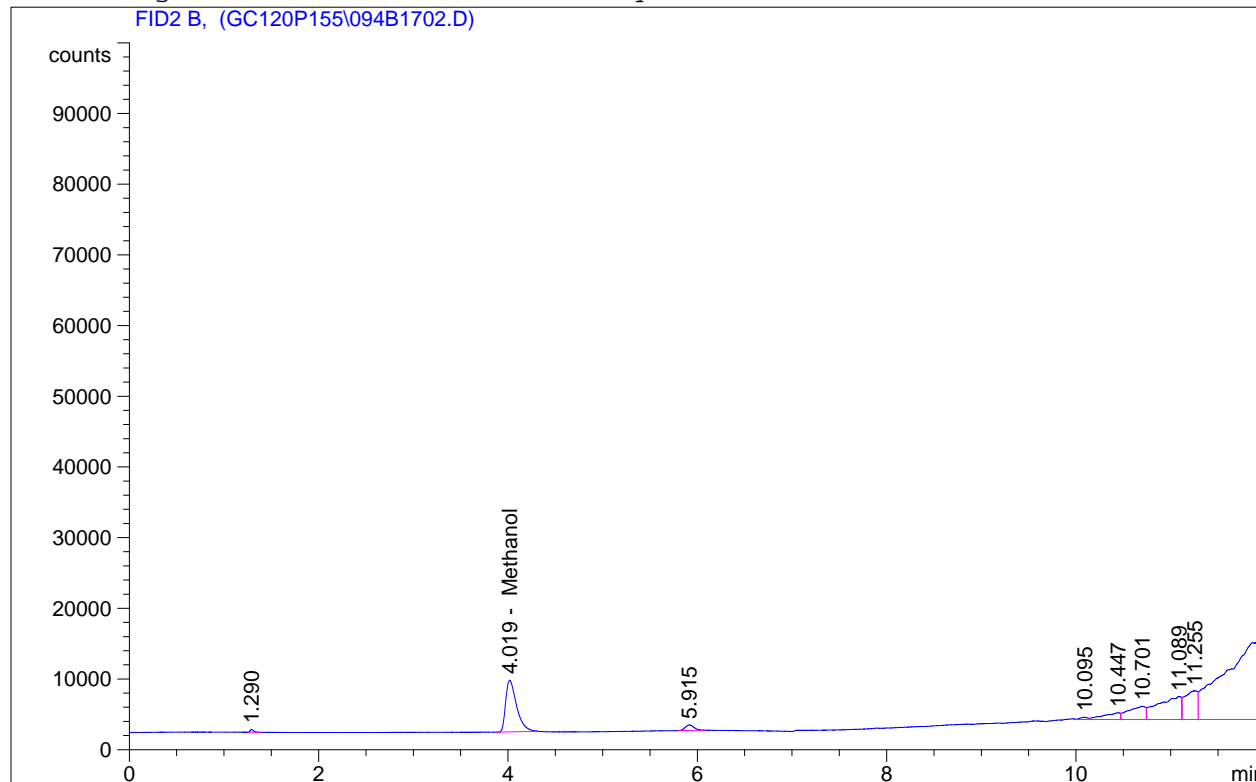
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.021	BB	6.04220e4	1.07648e-3	65.04286		Methanol

Totals : 65.04286

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   17
Acq. Instrument : Penn online                  Location  : Vial 94
Injection Date  : 8/29/2011 9:49:52 PM        Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

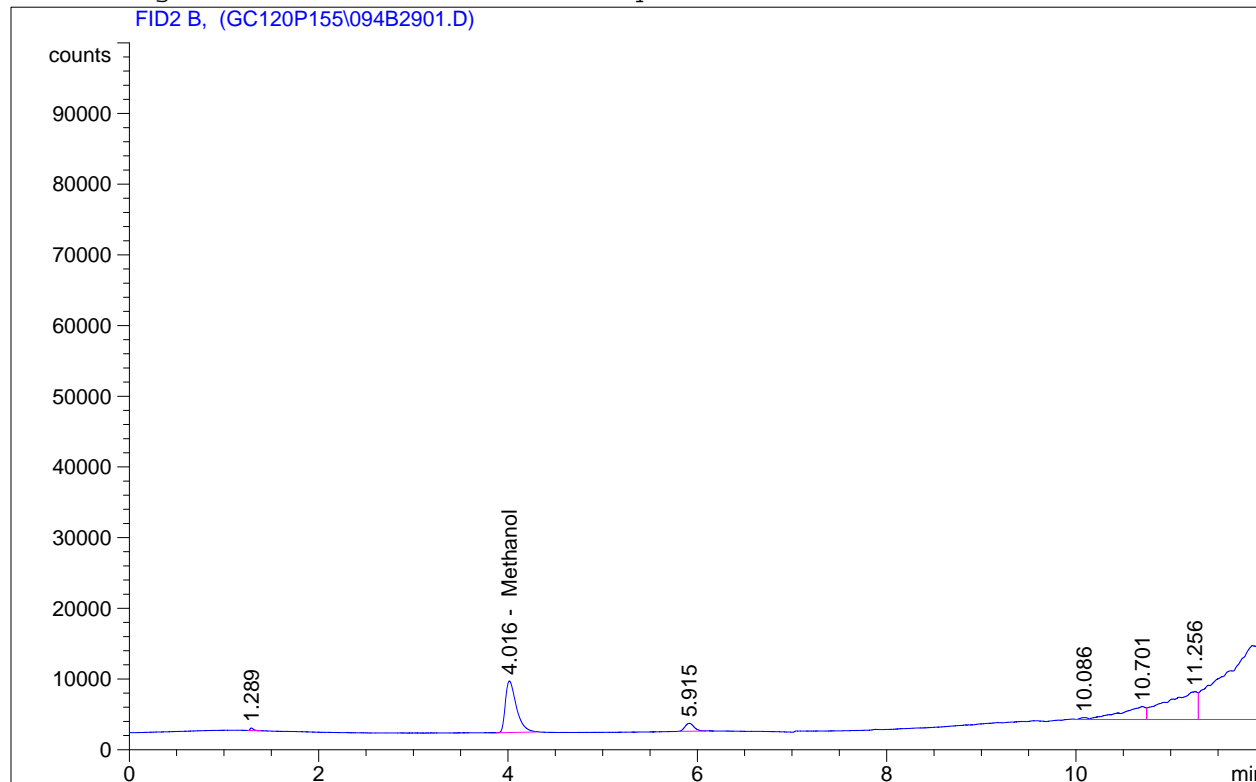
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.019	BB	5.85796e4	1.07636e-3	63.05265		Methanol

Totals : 63.05265

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   29
Acq. Instrument : Penn online                  Location  : Vial 94
Injection Date  : 8/30/2011 6:31:57 AM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

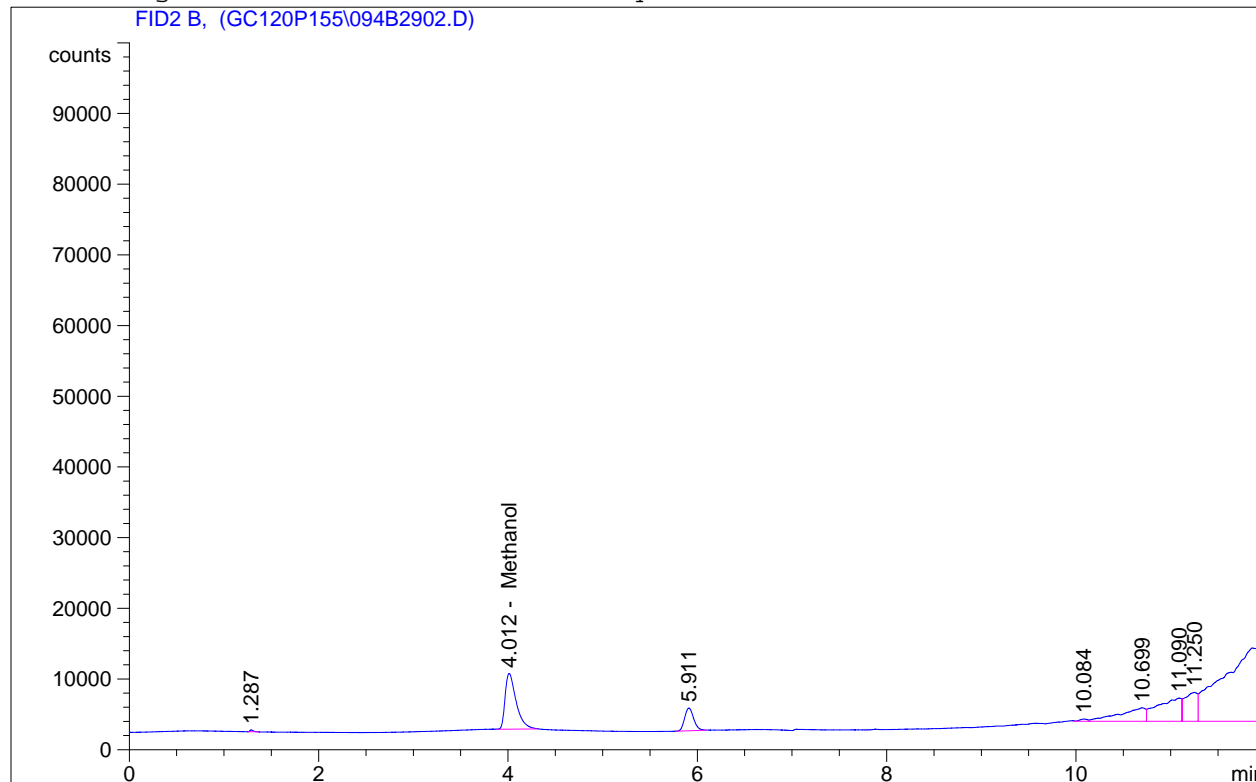
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.016	BB	5.85327e4	1.07635e-3	63.00195		Methanol

Totals : 63.00195

Signal 2: FID1 A, not found


```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   29
Acq. Instrument : Penn online                  Location  : Vial 94
Injection Date  : 8/30/2011 6:54:36 AM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

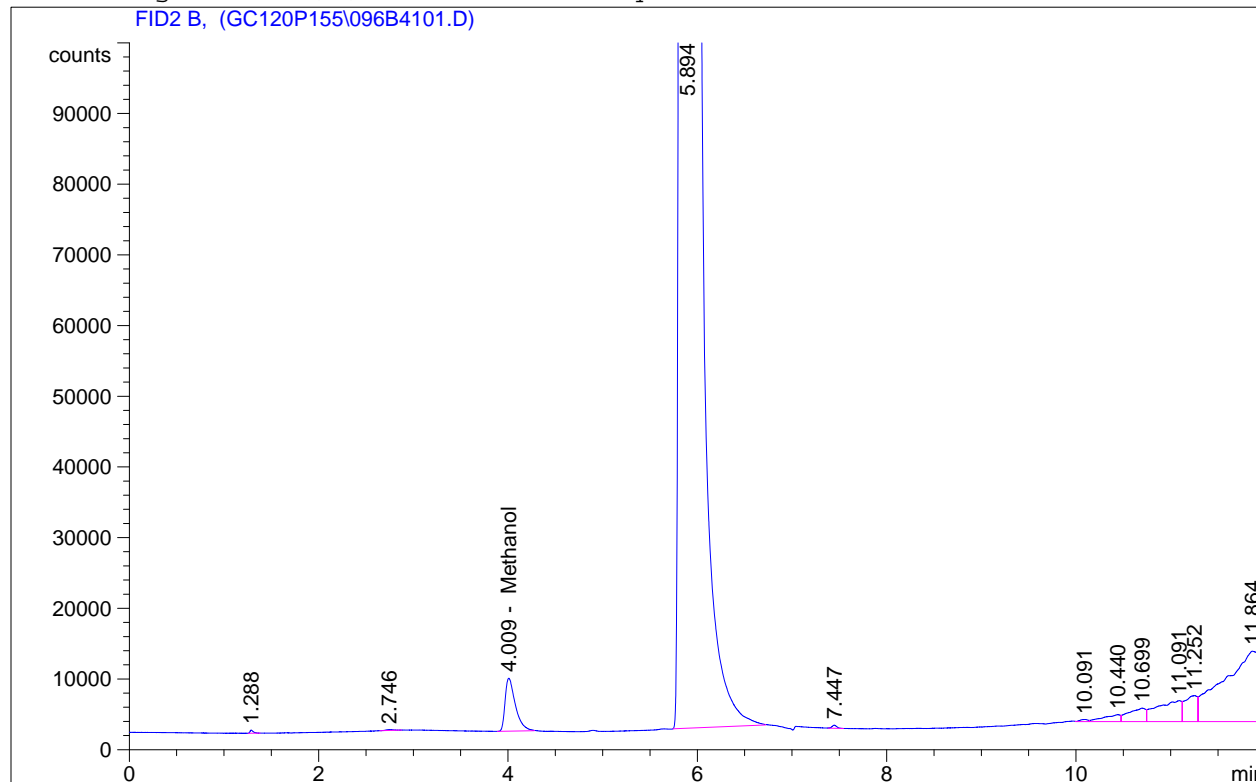
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.012	BB	6.36811e4	1.07667e-3	68.56361		Methanol

Totals : 68.56361

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   41
Acq. Instrument : Penn online                  Location  : Vial 96
Injection Date  : 8/30/2011 3:35:30 PM         Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
                        External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

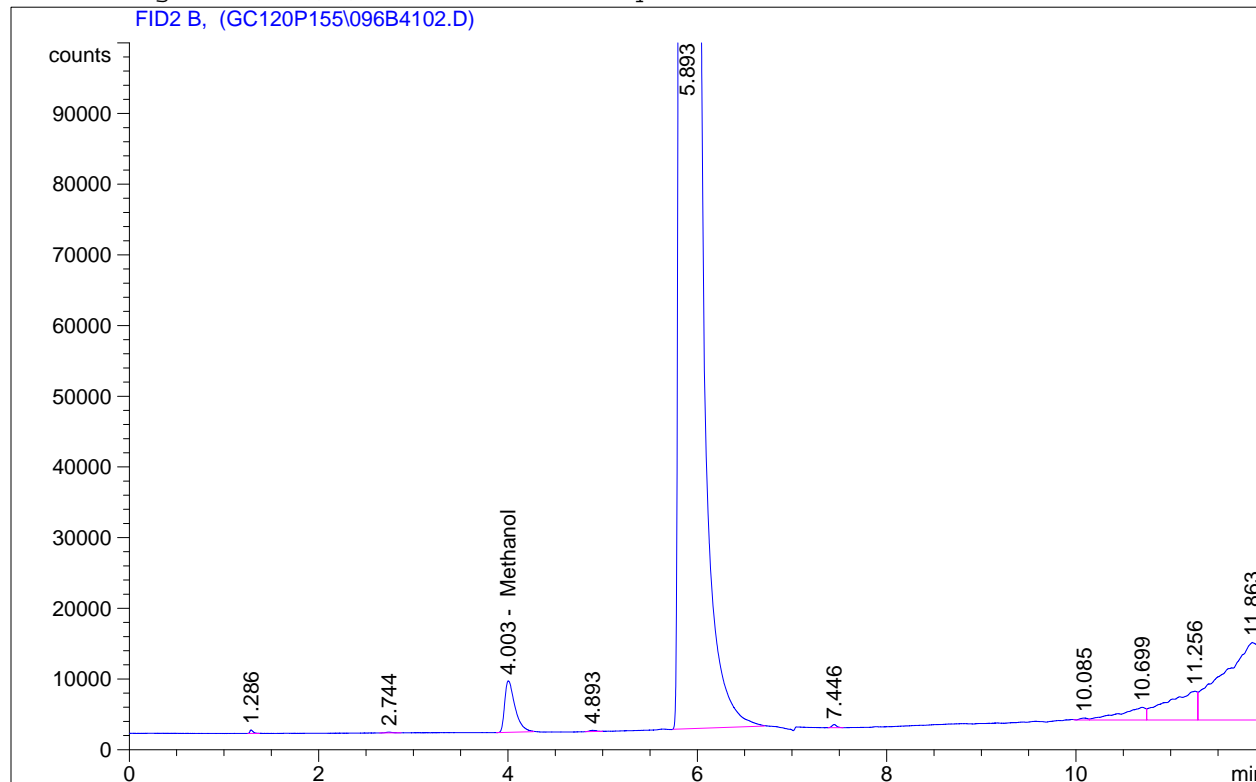
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.009	BB	5.62158e4	1.07619e-3	60.49909		Methanol

Totals : 60.49909

Signal 2: FID1 A, not found

```
=====
Acq. Operator   : CJT/KLM                      Seq. Line :   41
Acq. Instrument : Penn online                  Location  : Vial 96
Injection Date  : 8/30/2011 3:58:01 PM         Inj       :    2
                                           Inj Volume: 1 µl

Sequence File   : G:\GC2011Q3\PENN\SEQUENCE\GC120P155.S
Acq. Method     : G:\GC2011Q3\PENN\METHODS\GC120P153.M
Last changed    : 8/26/2011 10:48:04 AM
Analysis Method  : G:\GC2011Q3\PENN\METHODS\GC120P155.M
Last changed    : 9/1/2011 1:06:41 PM by KMT
=====
```



```
=====
External Standard Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      9/1/2011 1:03:59 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/mL]	Grp	Name
4.003	BB	5.48123e4	1.07609e-3	58.98293		Methanol

Totals : 58.98293

Signal 2: FID1 A, not found

OVEN\DET

Runtime (min): 13.5

Zone Temperatures:

	State	Setpoint
Inl. A	ON	225 C.
Inl. B	ON	225 C.
Det. A	ON	300 C.
Det. B	ON	300 C.
Aux.	OFF	50 C.

Oven Zone:

Oven max	250 C.
Equib Time	0.50 Min.
Oven State	ON
Cryo State	OFF
Ambient	25 C.
Cryo Blast	OFF

Oven Program:

		Setpoint		
		Initial Temp.:	40 C.	
		Initial Time:	1.00 Min.	
Level	Rate (C/min.)	Final Temp.(C)	Final Time (min)	
1	10.0	90	0.50	
2(A)	25.0	240	1.00	

InletA Pressure Program Information

Constant Flow:	On
Pressure:	2.0 psi
Temperature:	35 C

Pressure Program:

		Setpoint		
		Initial Pres.:	0.0 psi	
		Initial Time:	650.00 min.	
Level	Rate (psi/min.)	Final Pres.(psi)	Final Time (min)	
1	0.00	0.0	0.00	
2(A)	0.00	0.0	0.00	
3(B)	0.00	0.0	0.00	
Total Program Time:		650.00		

GC Pressure Units:psi

Entered Values:

Column Length:	30.00	m.
Column Diameter:	0.530	mm.
Gas:	H2	
Vacuum Comp:	Off	

InletB Pressure Program Information

Constant Flow:	On
----------------	----

FHR Pine Bend LLC
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Modified on: 8/26/2011 at 10:48:04 AM

Pressure: 2.0 psi

Temperature: 35 C.

Pressure Program:

Setpoint

Initial Pres.: 0.0 psi

Initial Time: 650.00 min.

Level	Rate (psi/min.)	Final Pres.(psi)	Final Time (min)
1	0.00	0.0	0.00
2(A)	0.00	0.0	0.00
3(B)	0.00	0.0	0.00
Total Program Time:		650.00	

GC Pressure Units:psi

Entered Values:

Column Length: 30.00 m.

Column Diameter: 0.530 mm.

Gas: H2

Vacuum Comp: Off

Inlet A Packed Column Information

Equation:---

Pressure-Flow Relationship:

	Pres.	Flow(psi)	(ml/min)
1	---	0.0	
2	---	0.0	
3	---	0.0	

Last pressure calibration:---

Packed Column Flow Setting (ml/min):0.0

Inlet B Packed Column Information

Equation:---

Pressure-Flow Relationship:

	Pres.	Flow(psi)	(ml/min)
1	---	0.0	
2	---	0.0	
3	---	0.0	

Last pressure calibration:---

Packed Column Flow Setting (ml/min):0.0

Purge Valve Settings

Purge A/B

	Init Value	On Time (Min.)	Off Time (Min.)
A (Valve 3)	On	0.00	100.00
B (Valve 4)	On	0.00	100.00

A - Splitless Injection: No

B - Splitless Injection: No

Valves/Relays Information

Initial Setpoints:

5890 Valves:

Pace Analytical	Valve 1:	Off
FSD 1108-200	Valve 2:	Off

FHR Pine Bend LLC
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Modified on: 8/26/2011 at 10:48:04 AM

Valve 3 (Purge A): On

Valve 4 (Purge B): On

Detector Information

Detector A:

Type	FID
State	ON

Detector B:

Type	FID
State	ON

Signal Information

Save Data:

Both

Signal 1:

Signal	Det. A
Data rate	20.000 Hz.
Peakwidth	0.013 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Signal 2:

Signal	Det. B
Data rate	20.000 Hz.
Peakwidth	0.013 min.
Start Time	0.00 min.
Stop Time	650.00 min.

Sequence: G:\gc2011q3\Penn\sequence\GC120P155.TXT

Sequence Table (Front Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 6	gc120p150 #6	GC120P153	2	Sample
2	Vial 5	gc120p150 #5	GC120P153	2	Sample
3	Vial 4	gc120p150 #4	GC120P153	2	Sample
4	Vial 3	gc120p150 #3	GC120P153	2	Sample
5	Vial 2	gc120p150 #2	GC120P153	2	Sample
6	Vial 1	gc120p150 #1	GC120P153	2	Sample
7	Vial 7	gc120p150 #3-SS	GC120P153	2	Sample
8	Vial 11	M308 H2O RB 0711-166	GC120P153	2	Sample
9	Vial 12	M308 Cond. Flash Tank A 0711-166	GC120P153	2	Sample
10	Vial 13	M308 Cond. Flash Tank A-LD 0711-166	GC120P153	2	Sample
11	Vial 14	M308 Cond. Flash Tank B 0711-166	GC120P153	2	Sample
12	Vial 31	IN BoilerFeedWater 101-LD 0711-76	GC120P153	2	Sample
13	Vial 32	IN BoilerFeedWater 102 0711-76	GC120P153	2	Sample
14	Vial 33	IN BoilerFeedWater 103 0711-76	GC120P153	2	Sample
15	Vial 34	IN LowPressureSteam 101 0711-76	GC120P153	2	Sample
16	Vial 35	IN LowPressureSteam 102 0711-76	GC120P153	2	Sample
17	Vial 36	IN LowPressureSteam 103 0711-76	GC120P153	2	Sample
18	Vial 44	gc120p150 #4	GC120P153	2	Sample
19	Vial 43	gc120p150 #3	GC120P153	2	Sample
20	Vial 15	M308 R3 Cond. 0711-172	GC120P153	2	Sample
21	Vial 16	M308 R3 Cond.-LD 0711-172	GC120P153	2	Sample
22	Vial 17	M308 H2O RB 0711-172	GC120P153	2	Sample
23	Vial 18	M308 H2O RB 0711-161	GC120P153	2	Sample
24	Vial 19	M308 R1 Cond. 0711-161	GC120P153	2	Sample
25	Vial 20	M308 R1 Cond.-LD 0711-161	GC120P153	2	Sample
26	Vial 21	M308 R2 Cond. 0711-161	GC120P153	2	Sample
27	Vial 22	M308 R3 Cond. 0711-161	GC120P153	2	Sample
28	Vial 44	gc120p150 #4	GC120P153	2	Sample
29	Vial 43	gc120p150 #3	GC120P153	2	Sample
30	Vial 23	M308 509-Sample 1 0811-25	GC120P153	2	Sample
31	Vial 24	M308 509-Sample 1-LD 0811-25	GC120P153	2	Sample
32	Vial 25	M308 512-Sample 1 0811-25	GC120P153	2	Sample
33	Vial 26	M308 515-Sample 1 0811-25	GC120P153	2	Sample
34	Vial 27	M308 BFW-Sample 1 0811-25	GC120P153	2	Sample
35	Vial 28	M308 H2O RB 0811-25	GC120P153	2	Sample
36	Vial 37	M308 T1R1 WC 0711-81	GC120P153	2	Sample
37	Vial 38	M308 T1R1 WC-LD 0711-81	GC120P153	2	Sample
38	Vial 39	M308 T1R2 WC 0711-81	GC120P153	2	Sample
39	Vial 40	M308 T1R3 WC 0711-81	GC120P153	2	Sample
40	Vial 46	gc120p150 #4	GC120P153	2	Sample
41	Vial 45	gc120p150 #3	GC120P153	2	Sample
42	Vial 41	M308 T1R0 WC FB 0711-81	GC120P153	2	Sample
43	Vial 42	M308 H2O RB 0711-81	GC120P153	2	Sample
44	Vial 47	M308 C4 Di H2O 0711-05	GC120P153	2	Sample
45	Vial 48	M308 C4 Di H2O-LD 0711-05	GC120P153	2	Sample
46	Vial 49	M308 C5 Di H2O 0711-05	GC120P153	2	Sample
47	Vial 50	M308 C6 Di H2O 0711-05	GC120P153	2	Sample
48	Vial 29	M308 Di H2O FB 0711-05	GC120P153	2	Sample
49	Vial 30	M308 H2O RB 0711-05	GC120P153	2	Sample
50	Vial 46	gc120p150 #4	GC120P153	2	Sample
51	Vial 45	gc120p150 #3	GC120P153	2	Sample
52	Vial 15	M308 T1 IMP1 0711-105	GC120P153	2	Sample
53	Vial 16	M308 T1 IMP1-LD 0711-105	GC120P153	2	Sample
54	Vial 17	M308 T1 IMP2 0711-105	GC120P153	2	Sample
55	Vial 18	M308 T2 IMP1 0711-105	GC120P153	2	Sample
56	Vial 19	M308 T2 IMP2 0711-105	GC120P153	2	Sample
57	Vial 20	M308 T3 IMP1 0711-105	GC120P153	2	Sample
58	Vial 21	M308 T3 IMP2 0711-105	GC120P153	2	Sample
59	Vial 22	M308 Di H2O FB 0711-105	GC120P153	2	Sample
60	Vial 23	M308 H2O RB 0711-105	GC120P153	2	Sample
61	Vial 10	gc120p150 #4	GC120P153	2	Sample
62	Vial 9	gc120p150 #3	GC120P153	2	Sample
63	Vial 6	gc120p150 #6	GC120P153	2	Sample
64	Vial 5	gc120p150 #5	GC120P153	2	Sample
65	Vial 2	gc120p150 #2	GC120P153	2	Sample
66	Vial 95	M308 BFW-Sample 1 MS 0811-25	GC120P153	2	Sample
67	Vial 100	gc120p150 #4	GC120P153	2	Sample
68	Vial 99	gc120p150 #3	GC120P153	2	Sample
69	Vial 1	gc120p150 #1	GC120P153	8	Sample

Sequence: G:\gc2011q3\Penn\sequence\GC120P155.TXT

Sequence Table (Back Injector):

Line	Vial	Sample Name	Method	Inj	Type
1	Vial 55	gc120p150 #5p	GC120P153	2	Sample
2	Vial 54	gc120p150 #4p	GC120P153	2	Sample
3	Vial 53	gc120p150 #3p	GC120P153	2	Sample
4	Vial 52	gc120p150 #2p	GC120P153	2	Sample
5	Vial 51	gc120p150 #1p	GC120P153	2	Sample
6	Vial 56	gc120p150 #3p-SS	GC120P153	2	Sample
7	Vial 61	M308 SG MB 0711-166	GC120P153	2	Sample
8	Vial 62	M308 SG FH 0711-166	GC120P153	2	Sample
9	Vial 63	M308 SG FH-LD 0711-166	GC120P153	2	Sample
10	Vial 64	M308 SG BH 0711-166	GC120P153	2	Sample
11	Vial 65	M308 R3 SG FH 0711-172	GC120P153	2	Sample
12	Vial 66	M308 R3 SG FH-LD 0711-172	GC120P153	2	Sample
13	Vial 67	M308 R3 SG BH 0711-172	GC120P153	2	Sample
14	Vial 68	M308 SG MB 0711-172	GC120P153	2	Sample
15	Vial 69	M308 SG LCS 0711-172	GC120P153	2	Sample
16	Vial 70	M308 SG LCS 1 0711-161	GC120P153	2	Sample
17	Vial 94	gc120p150 #4p	GC120P153	2	Sample
18	Vial 93	gc120p150 #3p	GC120P153	2	Sample
19	Vial 71	M308 SG LCS 2 0711-161	GC120P153	2	Sample
20	Vial 72	M308 SG MB 0711-161	GC120P153	2	Sample
21	Vial 73	M308 R1 SG FH 0711-161	GC120P153	2	Sample
22	Vial 74	M308 R1 SG FH-LD 0711-161	GC120P153	2	Sample
23	Vial 75	M308 R1 SG BH 0711-161	GC120P153	2	Sample
24	Vial 76	M308 R2 SG FH 0711-161	GC120P153	2	Sample
25	Vial 77	M308 R2 SG BH 0711-161	GC120P153	2	Sample
26	Vial 78	M308 R3 SG FH 0711-161	GC120P153	2	Sample
27	Vial 79	M308 R3 SG BH 0711-161	GC120P153	2	Sample
28	Vial 80	M308 T1R1 SG FH 0711-81	GC120P153	2	Sample
29	Vial 94	gc120p150 #4p	GC120P153	2	Sample
30	Vial 93	gc120p150 #3p	GC120P153	2	Sample
31	Vial 81	M308 T1R1 SG FH-LD 0711-81	GC120P153	2	Sample
32	Vial 82	M308 T1R1 SG BH 0711-81	GC120P153	2	Sample
33	Vial 83	M308 T1R2 SG FH 0711-81	GC120P153	2	Sample
34	Vial 84	M308 T1R2 SG BH 0711-81	GC120P153	2	Sample
35	Vial 85	M308 T1R3 SG FH 0711-81	GC120P153	2	Sample
36	Vial 86	M308 T1R3 SG BH 0711-81	GC120P153	2	Sample
37	Vial 87	M308 T1R0 SG FB 0711-81	GC120P153	2	Sample
38	Vial 88	M308 SG LCS 0711-81	GC120P153	2	Sample
39	Vial 89	M308 SG MB 0711-81	GC120P153	2	Sample
40	Vial 90	M308 C4 SG FH 0711-05	GC120P153	2	Sample
41	Vial 96	gc120p150 #4p	GC120P153	2	Sample
42	Vial 97	gc120p150 #3p	GC120P153	2	Sample
43	Vial 91	M308 C4 SG FH-LD 0711-05	GC120P153	2	Sample
44	Vial 92	M308 C4 SG BH 0711-05	GC120P153	2	Sample
45	Vial 61	M308 C5 SG FH 0711-05	GC120P153	2	Sample
46	Vial 62	M308 C5 SG BH 0711-05	GC120P153	2	Sample
47	Vial 63	M308 C6 SG FH 0711-05	GC120P153	2	Sample
48	Vial 64	M308 C6 SG BH 0711-05	GC120P153	2	Sample
49	Vial 65	M308 SG LCS 0711-05	GC120P153	2	Sample
50	Vial 66	M308 SG MB 0711-05	GC120P153	2	Sample
51	Vial 96	gc120p150 #4p	GC120P153	2	Sample
52	Vial 97	gc120p150 #3p	GC120P153	2	Sample
53	Vial 71	M308 T1 SG FH 0711-105	GC120P153	2	Sample
54	Vial 72	M308 T1 SG FH-LD 0711-105	GC120P153	2	Sample
55	Vial 73	M308 T1 SG BH 0711-105	GC120P153	2	Sample
56	Vial 74	M308 T2 SG FH 0711-105	GC120P153	2	Sample
57	Vial 75	M308 T2 SG BH 0711-105	GC120P153	2	Sample
58	Vial 76	M308 T3 SG FH 0711-105	GC120P153	2	Sample
59	Vial 77	M308 T3 SG BH 0711-105	GC120P153	2	Sample
60	Vial 78	M308 SG Tube1 FB 0711-105	GC120P153	2	Sample
61	Vial 79	M308 SG LCS 0711-105	GC120P153	2	Sample
62	Vial 80	M308 SG MB 0711-105	GC120P153	2	Sample
63	Vial 99	gc120p150 #4p	GC120P153	2	Sample
64	Vial 98	gc120p150 #3p	GC120P153	2	Sample
65	Vial 55	gc120p150 #5p	GC120P153	2	Sample
66	Vial 52	gc120p150 #2p	GC120P153	2	Sample
67	Vial 51	gc120p150 #1p	GC120P153	8	Sample

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Of This Report.**

Calibration Summary

Flint Hills Resources Pine Bend LLC

Pine Bend Refinery
Rosemount , MN
Pace Project No. 1108-200

Appendix B

Gas Calibration Summary
FCC Afterburner/ESP Stack
Test 1

Dilution System Verif.	High Level Gas		Concentration							
	Mid Level Gas		Concentration							
		Trial 1	Trial 2	Trial 3	Average	Predicted	Diff. %	Mn/Avg%	Mx/Avg%	P/F
	Undiluted									
	30%									
	80%									
	Mid Gas									

Analyzer Calibration	Gas	Propane	Span	100	Gas	Propane	Span	100
	Calibration Concentrations:				Calibration Concentrations:			
	Zero	0			Zero	0		
	Mid	50.2			Mid	50.2		
	High	98.1			High	98.1		
	Other	29.7			Other	29.7		
	Target	Resp.	Abs Diff	Error %	Target	Resp.	Abs Diff	Error %
	0.0	0.0	0.0	0.0%	0.0	0.0	0.0	0.0%
	50.2	50.2	0.0	0.0%	50.2	50.1	0.1	0.1%
	98.1	99.0	0.9	0.9%	98.1	98.1	0.0	0.0%
	29.7	29.4	0.3	0.3%	29.7	29.3	0.4	0.4%

Bias/Drift	Response Time To Span				30	Response Time To Span				30
	Response Time To Zero				30	Response Time To Zero				30
	Upscale Concentration				29.4	Upscale Concentration				29.3
Run	Pre-Run Resp.	Post-Run Response	Bias %Span	Drift %Span		Pre-Run Resp.	Post-Run Response	Bias %Span	Drift %Span	
1	0.0	0.5	0.0%	0.5%		0.0	0.3	0.0%	0.3%	Zero
	29.4	29.2	0.0%	-0.2%		29.3	29.1	0.0%	-0.2%	Upscale
2	0.5	0.2	0.5%	-0.3%		0.3	0.3	0.3%	0.0%	Zero
	29.2	29.8	-0.2%	0.6%		29.1	29.7	-0.2%	0.6%	Upscale
3	0.2	-0.1	0.2%	-0.2%		0.3	0.0	0.3%	-0.2%	Zero
	29.8	29.8	0.4%	0.0%		29.7	29.5	0.4%	-0.2%	Upscale
4										
5										
6										
7										

Monitoring Summary

Flint Hills Resources Pine Bend L

Pine Bend Refinery
Rosemount , MN
Pace Project No. 1108-200

Appendix B

Gas Monitoring Summary FCC Afterburner/ESP Stack Test 1

	<u>Propane PPM v/v</u>	<u>Propane PPM v/v</u>
Run 1		
Upper Scale	100.0	100.0
Zero Value	0.0	0.0
Pre-Run Zero	0.0	0.0
Post-Run Zero	0.5	0.3
Calibration Value	29.7	29.7
Pre-Run Calibration	29.4	29.3
Post-Run Calibration	29.2	29.1
Monitor Average	<u>2.6</u>	<u>2.2</u>
Adjusted Result	2.4	2.1
Run 2		
Upper Scale	100.0	100.0
Zero Value	0.0	0.0
Pre-Run Zero	0.5	0.3
Post-Run Zero	0.2	0.3
Calibration Value	29.7	29.7
Pre-Run Calibration	29.2	29.1
Post-Run Calibration	29.8	29.7
Monitor Average	<u>2.1</u>	<u>2.0</u>
Adjusted Result	1.8	1.8
Run 3		
Upper Scale	100.0	100.0
Zero Value	0.0	0.0
Pre-Run Zero	0.2	0.3
Post-Run Zero	-0.1	0.0
Calibration Value	29.7	29.7
Pre-Run Calibration	29.8	29.7
Post-Run Calibration	29.8	29.5
Monitor Average	<u>1.8</u>	<u>1.8</u>
Adjusted Result	1.7	1.7

Gas Monitoring Log

Flint Hills Resources Pine Bend LLC

Pine Bend Refinery
Rosemount , MN
Pace Project No. 1108-200

Appendix B

THC Results Summary
FCC Afterburner/ESP Stack
Test 1

		0-100 THC		Cal Notes
		Ch. 1	Ch. 2	
7/25/2011 12:41		2.4	3.7	
7/25/2011 12:42		2.5	3.7	
7/25/2011 12:43		2.4	3.7	
7/25/2011 12:44		2.4	3.7	
7/25/2011 12:45		2.4	3.7	
7/25/2011 12:46		2.4	3.8	
7/25/2011 12:47		2.4	3.7	
7/25/2011 12:48		2.3	3.5	
7/25/2011 12:49		0.1	0.7	
7/25/2011 12:50		0.0	0.0	
7/25/2011 12:51		-0.1	0.0	
7/25/2011 12:52		-0.1	0.0	
7/25/2011 12:53		0.0	0.0	Zero
7/25/2011 12:54		0.3	0.1	
7/25/2011 12:55		41.1	51.1	
7/25/2011 12:56		90.5	98.6	
7/25/2011 12:57		97.9	98.4	
7/25/2011 12:58		98.3	98.3	
7/25/2011 12:59		98.4	97.9	
7/25/2011 13:00		98.2	97.9	
7/25/2011 13:01		98.2	97.8	
7/25/2011 13:02		98.2	98.0	
7/25/2011 13:03		98.4	97.9	
7/25/2011 13:04		97.9	97.9	
7/25/2011 13:05		97.6	98.0	
7/25/2011 13:06		97.5	98.2	
7/25/2011 13:07		97.6	98.0	
7/25/2011 13:08		97.7	98.1	
7/25/2011 13:09		97.8	98.2	98.1
7/25/2011 13:10		71.7	71.0	
7/25/2011 13:11		50.1	50.3	
7/25/2011 13:12		50.0	50.1	
7/25/2011 13:13		50.0	50.2	50.2
7/25/2011 13:14		24.1	23.9	
7/25/2011 13:15		29.3	29.5	
7/25/2011 13:16		29.4	29.5	
7/25/2011 13:17		29.3	29.5	
7/25/2011 13:18		29.3	29.5	29.7
7/25/2011 13:19		14.5	14.0	
7/25/2011 13:20		1.2	1.0	
7/25/2011 13:21		1.2	1.0	System Bias
7/25/2011 13:22		23.5	24.8	

Flint Hills Resources Pine Bend LLC

Pine Bend Refinery
Rosemount , MN
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Appendix B

THC Results Summary
FCC Afterburner/ESP Stack
Test 1

		0-100 THC		Cal Notes
		Ch. 1	Ch. 2	
7/25/2011	13:23	97.8	97.9	
7/25/2011	13:24	97.4	97.5	
7/25/2011	13:25	97.6	97.5	
7/25/2011	13:26	97.8	97.8	
7/25/2011	13:27	97.7	98.1	
7/25/2011	13:28	97.3	97.9	98.1
7/25/2011	13:29	69.9	70.0	
7/25/2011	13:30	49.6	50.0	
7/25/2011	13:31	49.6	49.9	
7/25/2011	13:32	49.6	50.0	50.2
7/25/2011	13:33	33.0	33.4	
7/25/2011	13:34	28.9	29.4	
7/25/2011	13:35	29.1	29.5	
7/25/2011	13:36	29.1	29.4	
7/25/2011	13:37	29.1	29.4	29.7
7/25/2011	13:38	18.0	17.8	
7/25/2011	13:39	0.2	0.0	
7/25/2011	13:40	0.2	0.0	
7/25/2011	13:41	0.1	-0.1	
7/25/2011	13:42	0.1	-0.1	
7/25/2011	13:43	0.1	0.0	
7/25/2011	13:44	0.2	0.0	
7/25/2011	13:45	0.2	0.0	0
7/25/2011	13:46	1.3	1.2	
7/25/2011	13:47	0.9	0.8	
7/25/2011	13:48	0.9	0.8	
7/25/2011	13:49	0.7	0.7	
7/25/2011	13:50	0.8	0.7	

7/26/2011	8:00	-2.0	-2.1
7/26/2011	8:01	-2.1	-2.1
7/26/2011	8:02	-0.4	-0.4
7/26/2011	8:03	-0.1	-0.2
7/26/2011	8:04	-0.9	-1.0
7/26/2011	8:05	1.3	1.4
7/26/2011	8:06	1.8	1.8
7/26/2011	8:07	1.7	1.8
7/26/2011	8:08	1.7	1.7

Flint Hills Resources Pine Bend LLC

Pine Bend Refinery
Rosemount , MN
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Appendix B

THC Results Summary
FCC Afterburner/ESP Stack
Test 1

0-100 THC			
	Ch. 1	Ch. 2	Cal Notes
7/26/2011 8:09	1.5	1.6	
7/26/2011 8:10	1.5	1.6	
7/26/2011 8:11	-1.5	-2.1	Start Linearity
7/26/2011 8:12	0.0	0.0	
7/26/2011 8:13	0.0	0.0	
7/26/2011 8:14	0.0	0.0	Zero
7/26/2011 8:15	16.6	19.3	
7/26/2011 8:16	96.7	98.5	
7/26/2011 8:17	97.9	98.0	
7/26/2011 8:18	98.0	97.9	
7/26/2011 8:19	98.1	97.9	
7/26/2011 8:20	98.4	97.9	
7/26/2011 8:21	98.7	98.0	
7/26/2011 8:22	99.0	98.1	98.1
7/26/2011 8:23	66.7	65.2	
7/26/2011 8:24	50.8	50.2	
7/26/2011 8:25	50.5	50.1	
7/26/2011 8:26	50.3	50.1	
7/26/2011 8:27	50.2	50.1	50.2
7/26/2011 8:28	36.7	36.2	
7/26/2011 8:29	29.4	29.4	
7/26/2011 8:30	29.4	29.4	
7/26/2011 8:31	29.3	29.4	
7/26/2011 8:32	29.3	29.3	
7/26/2011 8:33	29.4	29.3	29.7
7/26/2011 8:34	14.3	13.7	
7/26/2011 8:35	2.7	2.6	
7/26/2011 8:36	2.7	2.6	
7/26/2011 8:37	2.6	2.5	
7/26/2011 8:38	2.5	2.4	
7/26/2011 8:39	2.5	2.4	
7/26/2011 8:40	2.5	2.4	
7/26/2011 8:41	2.5	2.3	
7/26/2011 8:42	2.5	2.4	
7/26/2011 8:43	2.5	2.3	
7/26/2011 8:44	2.6	2.4	
7/26/2011 8:45	2.7	2.5	
7/26/2011 8:46	2.7	2.5	
7/26/2011 8:47	2.7	2.5	
7/26/2011 8:48	2.7	2.4	
7/26/2011 8:49	2.7	2.4	
7/26/2011 8:50	2.6	2.4	

Flint Hills Resources Pine Bend LLC

Pine Bend Refinery
Rosemount , MN
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Appendix B

THC Results Summary
FCC Afterburner/ESP Stack
Test 1

	0-100 THC		Cal Notes
	Ch. 1	Ch. 2	
7/26/2011 8:51	2.6	2.4	
7/26/2011 8:52	2.6	2.3	
7/26/2011 8:53	2.4	2.2	
7/26/2011 8:54	2.3	2.1	
7/26/2011 8:55	2.3	2.1	
7/26/2011 8:56	2.3	2.1	
7/26/2011 8:57	2.2	2.0	
7/26/2011 8:58	2.2	2.0	
7/26/2011 8:59	2.3	2.0	
7/26/2011 9:00	2.3	2.0	Run 1
7/26/2011 9:01	2.4	2.0	
7/26/2011 9:02	2.4	2.0	
7/26/2011 9:03	2.5	2.1	
7/26/2011 9:04	2.5	2.1	
7/26/2011 9:05	2.5	2.1	
7/26/2011 9:06	2.6	2.1	
7/26/2011 9:07	2.6	2.2	
7/26/2011 9:08	2.5	2.1	
7/26/2011 9:09	2.5	2.1	
7/26/2011 9:10	2.5	2.1	
7/26/2011 9:11	2.5	2.1	
7/26/2011 9:12	2.5	2.0	
7/26/2011 9:13	2.5	2.1	
7/26/2011 9:14	2.5	2.1	
7/26/2011 9:15	2.5	2.1	
7/26/2011 9:16	2.5	2.1	
7/26/2011 9:17	2.5	2.1	
7/26/2011 9:18	2.6	2.1	
7/26/2011 9:19	2.6	2.1	
7/26/2011 9:20	2.6	2.1	
7/26/2011 9:21	2.6	2.1	
7/26/2011 9:22	2.7	2.2	
7/26/2011 9:23	2.7	2.2	
7/26/2011 9:24	2.6	2.1	
7/26/2011 9:25	2.6	2.1	
7/26/2011 9:26	2.6	2.2	
7/26/2011 9:27	2.6	2.2	
7/26/2011 9:28	2.6	2.2	
7/26/2011 9:29	2.5	2.2	
7/26/2011 9:30	2.5	2.2	
7/26/2011 9:31	2.5	2.1	
7/26/2011 9:32	2.6	2.1	

Flint Hills Resources Pine Bend LLC

Pine Bend Refinery
Rosemount , MN
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Appendix B

THC Results Summary
FCC Afterburner/ESP Stack
Test 1

0-100 THC			
	Ch. 1	Ch. 2	Cal Notes
7/26/2011 9:33	2.7	2.1	
7/26/2011 9:34	2.7	2.2	
7/26/2011 9:35	2.7	2.2	
7/26/2011 9:36	2.7	2.2	
7/26/2011 9:37	2.8	2.3	
7/26/2011 9:38	2.8	2.2	
7/26/2011 9:39	2.6	2.2	
7/26/2011 9:40	2.7	2.3	
7/26/2011 9:41	2.7	2.3	
7/26/2011 9:42	2.8	2.3	
7/26/2011 9:43	2.8	2.3	
7/26/2011 9:44	2.8	2.3	
7/26/2011 9:45	2.8	2.3	
7/26/2011 9:46	2.9	2.3	
7/26/2011 9:47	2.9	2.4	
7/26/2011 9:48	2.7	2.3	
7/26/2011 9:49	2.8	2.3	
7/26/2011 9:50	2.7	2.4	
7/26/2011 9:51	2.7	2.3	
7/26/2011 9:52	2.6	2.3	
7/26/2011 9:53	2.5	2.2	
7/26/2011 9:54	2.5	2.2	
7/26/2011 9:55	2.5	2.2	
7/26/2011 9:56	2.5	2.2	
7/26/2011 9:57	2.5	2.2	
7/26/2011 9:58	2.5	2.2	
7/26/2011 9:59	2.5	2.2	
Run 1 Average			
	THC ppm	THC ppm	
	2.6	2.2	
7/26/2011 10:00	2.5	2.2	
7/26/2011 10:01	1.8	1.5	
7/26/2011 10:02	0.6	0.4	
7/26/2011 10:03	0.5	0.3	
7/26/2011 10:04	0.5	0.3	
7/26/2011 10:05	0.5	0.3	0
7/26/2011 10:06	0.8	0.6	
7/26/2011 10:07	23.7	23.8	
7/26/2011 10:08	28.5	28.2	
7/26/2011 10:09	28.8	28.5	
7/26/2011 10:10	29.0	28.7	
7/26/2011 10:11	29.1	28.8	
7/26/2011 10:12	29.1	28.9	
7/26/2011 10:13	29.2	29.0	
7/26/2011 10:14	29.2	29.1	

Flint Hills Resources Pine Bend LLC

Pine Bend Refinery
Rosemount , MN
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Appendix B

THC Results Summary
FCC Afterburner/ESP Stack
Test 1

		0-100 THC		Cal Notes
		Ch. 1	Ch. 2	
7/26/2011 10:15		29.2	29.1	29.7
7/26/2011 10:16		20.9	20.3	
7/26/2011 10:17		1.1	1.0	
7/26/2011 10:18		1.0	0.9	
7/26/2011 10:19		0.9	0.9	
7/26/2011 10:20		1.3	1.4	
7/26/2011 10:21		2.1	2.1	In Stack
7/26/2011 10:22		2.2	2.1	
7/26/2011 10:23				pdaq crashed
7/26/2011 10:24				pdaq crashed
7/26/2011 10:25				pdaq crashed
7/26/2011 10:26				pdaq crashed
7/26/2011 10:27				pdaq crashed
7/26/2011 10:28				pdaq crashed
7/26/2011 10:29				pdaq crashed
7/26/2011 10:30		2.2	2.1	
7/26/2011 10:31		2.1	2.1	
7/26/2011 10:32		2.1	2.1	
7/26/2011 10:33		2.1	2.1	
7/26/2011 10:34		2.1	2.1	
7/26/2011 10:35		2.0	2.0	
7/26/2011 10:36		2.0	2.1	
7/26/2011 10:37		2.1	2.1	
7/26/2011 10:38		2.1	2.1	
7/26/2011 10:39		2.1	2.1	
7/26/2011 10:40		2.0	2.0	Run 2
7/26/2011 10:41		2.1	2.1	
7/26/2011 10:42		2.1	2.1	
7/26/2011 10:43		2.2	2.1	
7/26/2011 10:44		2.2	2.1	
7/26/2011 10:45		2.2	2.1	
7/26/2011 10:46		2.3	2.1	
7/26/2011 10:47		2.3	2.1	
7/26/2011 10:48		2.2	2.1	
7/26/2011 10:49		2.3	2.1	
7/26/2011 10:50		2.3	2.2	
7/26/2011 10:51		2.3	2.1	
7/26/2011 10:52		2.2	2.1	
7/26/2011 10:53		2.1	2.0	
7/26/2011 10:54		2.0	1.9	
7/26/2011 10:55		2.0	1.9	
7/26/2011 10:56		2.1	2.0	

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THC Results Summary
FCC Afterburner/ESP Stack
Test 1

		0-100 THC		Cal Notes
		Ch. 1	Ch. 2	
7/26/2011	10:57	2.0	2.0	
7/26/2011	10:58	2.0	2.0	
7/26/2011	10:59	2.0	2.0	
7/26/2011	11:00	2.0	2.0	
7/26/2011	11:01	2.0	1.9	
7/26/2011	11:02	2.0	1.9	
7/26/2011	11:03	1.9	1.9	
7/26/2011	11:04	1.9	1.9	
7/26/2011	11:05	1.9	1.9	
7/26/2011	11:06	2.0	1.9	
7/26/2011	11:07	2.1	2.0	
7/26/2011	11:08	2.1	2.0	
7/26/2011	11:09	2.0	1.9	
7/26/2011	11:10	2.0	1.9	
7/26/2011	11:11	1.9	1.9	
7/26/2011	11:12	1.9	1.9	
7/26/2011	11:13	2.0	2.0	
7/26/2011	11:14	2.1	2.0	
7/26/2011	11:15	2.1	2.0	
7/26/2011	11:16	2.3	2.1	
7/26/2011	11:17	2.4	2.2	
7/26/2011	11:18	2.3	2.2	
7/26/2011	11:19	2.3	2.1	
7/26/2011	11:20	2.2	2.1	
7/26/2011	11:21	2.1	2.0	
7/26/2011	11:22	2.1	2.0	
7/26/2011	11:23	2.1	2.0	
7/26/2011	11:24	2.2	2.1	
7/26/2011	11:25	2.1	2.1	
7/26/2011	11:26	2.2	2.1	
7/26/2011	11:27	2.2	2.1	
7/26/2011	11:28	2.2	2.1	
7/26/2011	11:29	2.1	2.1	
7/26/2011	11:30	2.0	2.0	
7/26/2011	11:31	2.0	2.0	
7/26/2011	11:32	2.0	2.0	
7/26/2011	11:33	2.0	2.0	
7/26/2011	11:34	2.0	2.0	
7/26/2011	11:35	2.0	2.0	
7/26/2011	11:36	2.1	2.0	
7/26/2011	11:37	2.1	2.0	
7/26/2011	11:38	2.0	2.0	
		Run 2 Average		
		THC ppm	THC ppm	

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FCC Afterburner/ESP Stack
Test 1

		0-100 THC		Cal Notes	
		Ch. 1	Ch. 2		
7/26/2011 11:39		2.0	2.0		2.1 2.0
7/26/2011 11:40		2.0	2.0		
7/26/2011 11:41		1.5	1.5		
7/26/2011 11:42		0.8	0.8		
7/26/2011 11:43		0.3	0.4		
7/26/2011 11:44		0.2	0.3		
7/26/2011 11:45		0.2	0.3		
7/26/2011 11:46		0.2	0.3	0	
7/26/2011 11:47		13.3	13.7		
7/26/2011 11:48		28.7	28.6		
7/26/2011 11:49		28.8	28.6		
7/26/2011 11:50		29.0	28.8		
7/26/2011 11:51		29.2	29.0		
7/26/2011 11:52		29.2	29.1		
7/26/2011 11:53		29.2	29.1		
7/26/2011 11:54		29.5	29.5		
7/26/2011 11:55		29.7	29.7		
7/26/2011 11:56		29.8	29.8		
7/26/2011 11:57		29.8	29.7	29.7	
7/26/2011 11:58		12.9	12.5		
7/26/2011 11:59		0.9	1.1		
7/26/2011 12:00		0.8	1.0		
7/26/2011 12:01		1.6	1.8		
7/26/2011 12:02		2.2	2.2	In Stack	
7/26/2011 12:03		2.3	2.3		
7/26/2011 12:04		2.3	2.3		
7/26/2011 12:05		2.2	2.3		
7/26/2011 12:06		2.2	2.3		
7/26/2011 12:07		2.2	2.3		
7/26/2011 12:08		2.2	2.3		
7/26/2011 12:09		2.2	2.3		
7/26/2011 12:10		2.2	2.4		
7/26/2011 12:11		2.4	2.4		
7/26/2011 12:12		2.4	2.5		
7/26/2011 12:13		2.4	2.4		
7/26/2011 12:14		2.4	2.4		
7/26/2011 12:15		2.3	2.3		
7/26/2011 12:16		2.3	2.3		
7/26/2011 12:17		2.4	2.5		
7/26/2011 12:18		2.3	2.4		
7/26/2011 12:19		2.1	2.2		
7/26/2011 12:20		2.2	2.2		

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FCC Afterburner/ESP Stack
Test 1

	0-100 THC		Cal Notes
	Ch. 1	Ch. 2	
7/26/2011 12:21	2.3	2.3	
7/26/2011 12:22	2.3	2.3	
7/26/2011 12:23	2.3	2.4	
7/26/2011 12:24	2.4	2.4	
7/26/2011 12:25	2.3	2.3	
7/26/2011 12:26	2.4	2.4	
7/26/2011 12:27	2.3	2.4	
7/26/2011 12:28	2.3	2.3	
7/26/2011 12:29	2.2	2.3	
7/26/2011 12:30	2.2	2.3	
7/26/2011 12:31	2.2	2.3	
7/26/2011 12:32	2.6	2.7	
7/26/2011 12:33	2.2	2.3	
7/26/2011 12:34	2.2	2.2	
7/26/2011 12:35	2.1	2.2	
7/26/2011 12:36	2.1	2.2	
7/26/2011 12:37	2.1	2.2	
7/26/2011 12:38	2.1	2.2	
7/26/2011 12:39	2.1	2.2	
7/26/2011 12:40	2.1	2.2	
7/26/2011 12:41	2.1	2.2	
7/26/2011 12:42	2.1	2.1	
7/26/2011 12:43	2.0	2.1	
7/26/2011 12:44	2.0	2.1	
7/26/2011 12:45	1.9	2.0	
7/26/2011 12:46	2.0	2.1	
7/26/2011 12:47	2.0	2.1	
7/26/2011 12:48	2.0	2.1	
7/26/2011 12:49	2.0	2.0	
7/26/2011 12:50	2.0	2.0	Run 3
7/26/2011 12:51	1.9	2.0	
7/26/2011 12:52	1.9	1.9	
7/26/2011 12:53	1.9	1.9	
7/26/2011 12:54	1.8	1.9	
7/26/2011 12:55	1.8	1.9	
7/26/2011 12:56	1.8	1.9	
7/26/2011 12:57	1.8	1.8	
7/26/2011 12:58	1.8	1.8	
7/26/2011 12:59	1.7	1.8	
7/26/2011 13:00	1.7	1.8	
7/26/2011 13:01	1.7	1.8	
7/26/2011 13:02	1.8	1.9	

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Test 1

		0-100 THC		Cal Notes
		Ch. 1	Ch. 2	
7/26/2011	13:03	1.8	1.9	
7/26/2011	13:04	1.8	1.9	
7/26/2011	13:05	1.8	1.9	
7/26/2011	13:06	1.8	1.9	
7/26/2011	13:07	1.9	2.0	
7/26/2011	13:08	1.8	1.9	
7/26/2011	13:09	1.8	1.9	
7/26/2011	13:10	1.8	1.9	
7/26/2011	13:11	1.8	1.9	
7/26/2011	13:12	1.8	1.9	
7/26/2011	13:13	1.8	1.8	
7/26/2011	13:14	1.8	1.9	
7/26/2011	13:15	1.8	1.8	
7/26/2011	13:16	1.8	1.9	
7/26/2011	13:17	1.8	1.9	
7/26/2011	13:18	1.7	1.8	
7/26/2011	13:19	1.8	1.8	
7/26/2011	13:20	1.8	1.8	
7/26/2011	13:21	1.8	1.8	
7/26/2011	13:22	1.8	1.8	
7/26/2011	13:23	1.8	1.8	
7/26/2011	13:24	1.8	1.8	
7/26/2011	13:25	1.9	1.9	
7/26/2011	13:26	1.9	1.9	
7/26/2011	13:27	1.9	1.9	
7/26/2011	13:28	1.8	1.8	
7/26/2011	13:29	1.7	1.8	
7/26/2011	13:30	1.7	1.8	
7/26/2011	13:31	1.8	1.8	
7/26/2011	13:32	1.7	1.7	
7/26/2011	13:33	1.7	1.7	
7/26/2011	13:34	1.7	1.7	
7/26/2011	13:35	1.7	1.7	
7/26/2011	13:36	1.7	1.7	
7/26/2011	13:37	1.7	1.7	
7/26/2011	13:38	1.7	1.7	
7/26/2011	13:39	1.7	1.7	
7/26/2011	13:40	1.7	1.7	
7/26/2011	13:41	1.7	1.7	
7/26/2011	13:42	1.7	1.7	
7/26/2011	13:43	1.7	1.7	
7/26/2011	13:44	1.7	1.7	

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Test 1

		0-100 THC		Cal Notes
		Ch. 1	Ch. 2	
7/26/2011 13:45		1.7	1.7	Run 3 Average THC ppm THC ppm 1.8 1.8
7/26/2011 13:46		1.7	1.7	
7/26/2011 13:47		1.6	1.7	
7/26/2011 13:48		1.6	1.5	
7/26/2011 13:49		1.5	1.5	
7/26/2011 13:50		1.5	1.6	
7/26/2011 13:51		1.5	1.6	
7/26/2011 13:52		0.9	1.0	
7/26/2011 13:53		0.4	0.5	
7/26/2011 13:54		0.1	0.2	
7/26/2011 13:55		0.0	0.1	
7/26/2011 13:56		0.0	0.1	
7/26/2011 13:57		-0.1	0.0	0
7/26/2011 13:58		8.3	9.0	
7/26/2011 13:59		29.5	29.5	
7/26/2011 14:00		29.7	29.6	
7/26/2011 14:01		29.7	29.5	
7/26/2011 14:02		29.8	29.5	29.7
7/26/2011 14:03		26.6	25.6	