



Prepared for :Arrow Environmental Consulting

Analytical Data Package

Analysis: CTM 033

Maxxam Job #: B0D7239

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



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

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Maxxam Analytics International
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Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- **MDL** represents the Minimum Detection Limit below which the laboratory cannot confirm the presence of the analyte to the 95% confidence level.
- **RDL** represents the Reportable Detection Limit and is usually set at a value equivalent to the lowest calibration standard.
- **Acceptance Criteria** are values used by the laboratory to determine that a process is in control.
- **Accuracy** is the degree of agreement of a measured value with the true or expected value.
- **Calibration Standards** are a set of solutions containing the analytes of interest at a specified concentration.
- **Calibration Verification Standard** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to assess whether the initial calibration is still valid
- **Certified Reference Material** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.
- **Internal Standard** a deuterated or ^{13}C -labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.
- **Isomer** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.
- **Method Blank** is a laboratory control sample using reagents that are known to be free of contamination.
- **Precision** is the degree of agreement between the data generated from repetitive measurements under specific conditions.
- **Quality Assurance** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.
- **Quality Control** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.
- **RSD** is the relative standard deviation.
- **Blank Spike** is a laboratory control sample that has been fortified with native analytes of interest.
- **Window Defining Mixture** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.
- **RPD** or Relative Percent Difference. A measure used to compare duplicate sample analysis.
- **EMPC/NDR** – Peak detected does not meet ratio criteria and has resulted in a higher detection limit.



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1.0 Project Narrative

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PROJECT NARRATIVE

Maxxam Analytics (Burlington ON)
Maxxam Job #: B0D7239



Client: Arrow Environmental Consulting
Client Project:

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run
Hydrogen Cyanide in Impingers					
HI4512	FIELD SPIKE-CTM033	2010/09/21	2010/09/29	2010/10/15	2010/10/15
HI4514	REAGENT BLANK-CTM033	2010/09/21	2010/09/29	2010/10/15	2010/10/15
HI4515	FIELD BLK-CTM033-IMP1	2010/09/21	2010/09/29	2010/10/15	2010/10/15
HI4516	FIELD BLK-CTM033-IMP2	2010/09/21	2010/09/29	2010/10/15	2010/10/15
HI4517	FIELD BLK-CTM033-IMP3	2010/09/21	2010/09/29	2010/10/15	2010/10/15
HI4518	RUN 1-CTM033-IMP 1A	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4518 Dup	RUN 1-CTM033-IMP 1A	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4519	RUN 1-CTM033-IMP 1B	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4520	RUN 1-CTM033-IMP 1C	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4521	RUN 1-CTM033-IMP 2A	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4522	RUN 1-CTM033-IMP 2B	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4523	RUN 1-CTM033-IMP 2C	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4524	RUN 1-CTM033-IMP 3	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4525	RUN 2-CTM033-IMP 1	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4526	RUN 2-CTM033-IMP 2	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4527	RUN 2-CTM033-IMP 3	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4528	RUN 3-CTM033-IMP 1	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4529	RUN 3-CTM033-IMP 2	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4530	RUN 3-CTM033-IMP 3	2010/09/14	2010/09/29	2010/10/15	2010/10/15
HI4531	RUN 4-CTM033-IMP 1A	2010/09/21	2010/09/29	2010/10/15	2010/10/15
HI4532	RUN 4-CTM033-IMP 1B	2010/09/21	2010/09/29	2010/10/15	2010/10/15
HI4533	RUN 4-CTM033-IMP 2A	2010/09/21	2010/09/29	2010/10/14	2010/10/14
HI4534	RUN 4-CTM033-IMP 2B	2010/09/21	2010/09/29	2010/10/14	2010/10/14
HI4535	RUN 4-CTM033-IMP 3	2010/09/21	2010/09/29	2010/10/14	2010/10/14
HI4535 Dup	RUN 4-CTM033-IMP 3	2010/09/21	2010/09/29	2010/10/14	2010/10/14
HI4536	RUN 4-CTM033-IMP 4	2010/09/21	2010/09/29	2010/10/14	2010/10/14

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

- a) Hold Times: all within recommended hold times
- b) Instrument Calibration: all within control limits
- c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.
- d) All analytes requiring manual integration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.



2.0 Summary Report

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
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1-800-668-0639
www.maxxamanalytics.com

Attention: Andrew McNeel

Arrow Environmental Consulting
2 Sutton Pl
Easton, PA
USA 18045

Report Date: 2010/10/20

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0D7239

Received: 2010/09/29, 15:15

Sample Matrix: Stack Sampling Train
Samples Received: 24

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Hydrogen Cyanide in Impingers	4	2010/10/14	2010/10/14		EPA CTM-33
Hydrogen Cyanide in Impingers	20	2010/10/15	2010/10/15		EPA CTM-33
Volume of Sodium Hydroxide Impinger	24	N/A	2010/10/15		

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

MAXXAM ANALYTICS

ANCY SEBASTIAN, C.Tech.
Senior Project Manager, Air Toxics

AMS/ams
encl.

Authorized By :




TERRY OBAL, Ph.D., C. Chem
Manager, Scientific Services

Total cover pages: 1

Maxxam Job #: B0D7239
Report Date: 2010/10/20

RESULTS OF ANALYSES OF STACK SAMPLING TRAIN

Maxxam ID		HI4512		HI4514	HI4515	HI4516		
Sampling Date		2010/09/21		2010/09/21	2010/09/21	2010/09/21		
	Units	FIELD SPIKE-CTM033	RDL	REAGENT BLANK-CTM033	FIELD BLK-CTM033-IMP1	FIELD BLK-CTM033-IMP2	RDL	QC Batch

Volume	ml	510	1	500	530	530	1	2293995
Hydrogen Cyanide	ug	38000	2000	<1000	<1000	<1000	1000	2293291

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HI4517		HI4518		HI4518		HI4519		
Sampling Date		2010/09/21		2010/09/14		2010/09/14		2010/09/14		
	Units	FIELD BLK-CTM033-IMP3	RDL	RUN 1-CTM033-IMP 1A	RDL	RUN 1-CTM033-IMP 1A Lab-Dup	RDL	RUN 1-CTM033-IMP 1B	RDL	QC Batch

Volume	ml	530	1	640	1	N/A	1	580	1	2293995
Hydrogen Cyanide	ug	<1000	1000	<20000	20000	14000	2000	5500	1000	2293291

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HI4520	HI4521	HI4522	HI4523	HI4524		
Sampling Date		2010/09/14	2010/09/14	2010/09/14	2010/09/14	2010/09/14		
	Units	RUN 1-CTM033-IMP 1C	RUN 1-CTM033-IMP 2A	RUN 1-CTM033-IMP 2B	RUN 1-CTM033-IMP 2C	RUN 1-CTM033-IMP 3	RDL	QC Batch

Volume	ml	600	550	550	550	590	1	2293995
Hydrogen Cyanide	ug	<1000	<1000	<1000	<1000	<1000	1000	2293291

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0D7239
Report Date: 2010/10/20

RESULTS OF ANALYSES OF STACK SAMPLING TRAIN

Maxxam ID		HI4525		HI4526	HI4527		HI4528		HI4529		
Sampling Date		2010/09/14		2010/09/14	2010/09/14		2010/09/14		2010/09/14		
	Units	RUN 2-CTM033-IMP 1	RDL	RUN 2-CTM033-IMP 2	RUN 2-CTM033-IMP 3	RDL	RUN 3-CTM033-IMP 1	RDL	RUN 3-CTM033-IMP 2	RDL	QC Batch

Volume	ml	700	1	570	590	1	710	1	560	1	2293995
Hydrogen Cyanide	ug	24000	2000	<1000	<1000	1000	26000	2000	<1000	1000	2293291

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HI4530		HI4531		HI4532		HI4533		
Sampling Date		2010/09/14		2010/09/21		2010/09/21		2010/09/21		
	Units	RUN 3-CTM033-IMP 3	RDL	RUN 4-CTM033-IMP 1A	RDL	RUN 4-CTM033-IMP 1B	QC Batch	RUN 4-CTM033-IMP 2A	RDL	QC Batch

Volume	ml	600	1	720	1	640	2293995	630	1	2293995
Hydrogen Cyanide	ug	<1000	1000	24000	2000	6800	2293291	<1000	1000	2293292

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HI4534	HI4535	HI4535	HI4536		
Sampling Date		2010/09/21	2010/09/21	2010/09/21	2010/09/21		
	Units	RUN 4-CTM033-IMP 2B	RUN 4-CTM033-IMP 3	RUN 4-CTM033-IMP 3 Lab-Dup	RUN 4-CTM033-IMP 4	RDL	QC Batch

Volume	ml	610	610	N/A	600	1	2293995
Hydrogen Cyanide	ug	<1000	<1000	<1000	<1000	1000	2293292

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0D7239
Report Date: 2010/10/20

Test Summary

Maxxam ID HI4512
Sample ID FIELD SPIKE-CTM033
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4514
Sample ID REAGENT BLANK-CTM033
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4515
Sample ID FIELD BLK-CTM033-IMP1
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4516
Sample ID FIELD BLK-CTM033-IMP2
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4517
Sample ID FIELD BLK-CTM033-IMP3
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4518
Sample ID RUN 1-CTM033-IMP 1A
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam Job #: B0D7239
Report Date: 2010/10/20

Test Summary

Maxxam ID HI4518 Dup
Sample ID RUN 1-CTM033-IMP 1A
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE

Maxxam ID HI4519
Sample ID RUN 1-CTM033-IMP 1B
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4520
Sample ID RUN 1-CTM033-IMP 1C
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4521
Sample ID RUN 1-CTM033-IMP 2A
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4522
Sample ID RUN 1-CTM033-IMP 2B
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4523
Sample ID RUN 1-CTM033-IMP 2C
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam Job #: B0D7239
Report Date: 2010/10/20

Test Summary

Maxxam ID HI4524
Sample ID RUN 1-CTM033-IMP 3
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4525
Sample ID RUN 2-CTM033-IMP 1
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4526
Sample ID RUN 2-CTM033-IMP 2
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4527
Sample ID RUN 2-CTM033-IMP 3
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4528
Sample ID RUN 3-CTM033-IMP 1
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4529
Sample ID RUN 3-CTM033-IMP 2
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam Job #: B0D7239
Report Date: 2010/10/20

Test Summary

Maxxam ID HI4530
Sample ID RUN 3-CTM033-IMP 3
Matrix Stack Sampling Train
Collected 2010/09/14
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4531
Sample ID RUN 4-CTM033-IMP 1A
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4532
Sample ID RUN 4-CTM033-IMP 1B
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293291	2010/10/15	2010/10/15	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4533
Sample ID RUN 4-CTM033-IMP 2A
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293292	2010/10/14	2010/10/14	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4534
Sample ID RUN 4-CTM033-IMP 2B
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293292	2010/10/14	2010/10/14	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam ID HI4535
Sample ID RUN 4-CTM033-IMP 3
Matrix Stack Sampling Train
Collected 2010/09/21
Shipped
Received 2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293292	2010/10/14	2010/10/14	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam Job #: B0D7239
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Test Summary

Maxxam ID	HI4535 Dup	Collected	2010/09/21
Sample ID	RUN 4-CTM033-IMP 3	Shipped	
Matrix	Stack Sampling Train	Received	2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293292	2010/10/14	2010/10/14	LLE

Maxxam ID	HI4536	Collected	2010/09/21
Sample ID	RUN 4-CTM033-IMP 4	Shipped	
Matrix	Stack Sampling Train	Received	2010/09/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Hydrogen Cyanide in Impingers	IC	2293292	2010/10/14	2010/10/14	LLE
Volume of Sodium Hydroxide Impinger		2293995	N/A	2010/10/15	FMO

Maxxam Job #: B0D7239
Report Date: 2010/10/20

RESULTS OF ANALYSES OF STACK SAMPLING TRAIN

Hydrogen Cyanide in Impingers: Samples were initially analyzed on 2010/10/13 but data are not reportable. Samples were re-analyzed on 2010/10/15.

Results relate only to the items tested.

Arrow Environmental Consulting
Attention: Andrew McNeel
Client Project #:
P.O. #:
Project name:

Quality Assurance Report
Maxxam Job Number: GB0D7239

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2293291 LLE	Matrix Spike (HI4518)	Hydrogen Cyanide	2010/10/15		98	%	N/A
	Spiked Blank	Hydrogen Cyanide	2010/10/15		101	%	N/A
	Method Blank	Hydrogen Cyanide	2010/10/15	<1000		ug	
	RPD - Sample/Sample Dup	Hydrogen Cyanide	2010/10/15	NC		%	20
	Matrix Spike (HI4535)	Hydrogen Cyanide	2010/10/14		102	%	N/A
2293292 LLE	Spiked Blank	Hydrogen Cyanide	2010/10/14		101	%	N/A
	Method Blank	Hydrogen Cyanide	2010/10/14	<1000		ug	
	RPD - Sample/Sample Dup	Hydrogen Cyanide	2010/10/14	NC		%	20
<p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference. Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery. Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination. NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.</p>							

Validation Signature Page

Maxxam Job #: B0D7239

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



FRANK MO, B.Sc., Inorganic Lab. Manager

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Driven by Service and Science

3.0 Sample Custody

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

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Arrow Environmental Consulting, LLC

PO Box 3658

Easton PA 18043

610-597-1770 610-258-2470 FAX

andrewmccneel@rcn.com

Chain of Custody Record

Page 2 of 2

DUE DATE	
	Final
Pls fax /email results by 10/08/10.	

Samples Submitted to: Maxxam Analytical

5555 North Service Rd

Burlington Ontario Canada L7L 5H7

(905) 332-8788

Attn: A. Sebastian (905)332-9169 fx

Other

Container Type
B. Gas Bag
D. Petri Dish
E. Method 25 Tank
F. Method 25 Trap
G. Glass
N. NIOSH Tube
P. Plastic Bottle
S. Summa Canister
T. VOST Tube
V. VOC Vial
X. XAD-2 Trap
O. Other: AMPULE

Sample Type
1. Liquid
2. Gas
3. Filter
4. Charcoal
5. Resin
6. Other

Requested Analysis / Method

cyanide per CTM-033

Sample Identification	Sample vol (mls)	Sample Type	Container		Sampling Information		Reagents and/or Preservatives	Lab ID #
			Type	Size	Date	Tech		
Run 2, imp 1, catch / rinse	695	1 G		950	9/14/2010	JMC	6N NaOH	x
Run 2, imp 2, catch / rinse	565	1 G		950	9/14/2010	JMC	6N NaOH	x
Run 2, imp 3, catch / rinse	590	1 G		950	9/14/2010	JMC	6N NaOH	x
Run 3, imp 1, catch / rinse	705	1 G		950	9/14/2010	JMC	6N NaOH	x
Run 3, imp 2, catch / rinse	560	1 G		950	9/14/2010	JMC	6N NaOH	x
Run 3, imp 3, catch / rinse	595	1 G		950	9/14/2010	JMC	6N NaOH	x
Run 4, imp 1A, catch / rinse	720	1 G		950	9/21/2010	JMC	6N NaOH	x
Run 4, imp 1B, catch / rinse	640	1 G		950	9/21/2010	JMC	6N NaOH	x
Run 4, imp 2A, catch / rinse	630	1 G		950	9/21/2010	JMC	6N NaOH	x
Run 4, imp 2B, catch / rinse	610	1 G		950	9/21/2010	JMC	6N NaOH	x
Run 4, imp 3, catch / rinse	610	1 G		950	9/21/2010	JMC	6N NaOH	x
Run 4, imp 4, catch / rinse	600	1 G		950	9/21/2010	JMC	6N NaOH	x
Reagent Blank	500	1 G		950	9/21/2010	BEC	6N NaOH	x
Field Spike	510	1 G		950	9/21/2010	BEC	6N NaOH / spike solution	x
Field Blank, imp 1	530	1 G		950	9/21/2010	BEC	6N NaOH	x
Field Blank, imp 2	530	1 G		950	9/21/2010	BEC	6N NaOH	x
Field Blank, imp 3	530	1 G		950	9/21/2010	BEC	6N NaOH	x

Special Instructions: Field spiked sample contains 500 mls 6N NaOH with 10mls of the Potassium Cyanide/0.1N NaOH spike solution.

25mls of the spiking solution is included in a VOC vial.

Submitted By: <u>John M. Calabrese</u>	Date: 9/23/2010	Received By: <u>[Signature]</u>	Date: 9/23/2010	QA/QC Report Package
Relinquished By:	Date:	Received By:	Date:	compliance
Relinquished By:	Date:	Received By:	Date:	NUDEP <input checked="" type="checkbox"/> USEPA <input type="checkbox"/>
				Method Normal

NELAC - SAMPLE RECEIPT LOG

Lab Name: Maxxam Analytics, Mississauga Laboratory	
Received by (Name): <u>Marsela Wijaya</u>	
Received by (Signature): <u>[Signature]</u> Date: <u>09-29-10</u> Time: <u>3:15</u>	
Where Applicable:	
Client Name: <u>Arrow Environmental Consulting</u>	
Mode of delivery: Pick up at: <input checked="" type="checkbox"/> Client <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> Purolator <input type="checkbox"/> Other _____	
Waybill #: _____	
Assigned job#: <u>BOD6255, BOD6223, BOD7239, BOD7344</u>	
Number of Package: Number of Boxes: <u>4</u> or Coolers: _____	
REMARKS:	Condition of Sample(s) Shipment - Comments
Sample Reception Documentation	
Samples Packed in Coolers? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	<div style="border: 1px solid black; height: 200px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div>
Cooler Contains ice? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Custody seal(s) on cooler? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Chain of Custody (CoC) present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Cooler Temperature measured? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Correct containers used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
CoC agrees with samples? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Samples rec'd after hold time? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Project Mgr contacted via SIF? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Project Manager Documentation	
Client contacted if discrepancies in shipment are observed Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	<div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div>
Client acceptance of deficiencies (if observed at sample receipt) Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Cooler temperatures upon receipt	
Cooler ID: _____ Temp. _____	CTM33 - cyanide +: 12/12/12°C (stored in fridge overnight)
Cooler ID: _____ Temp. _____	
Cooler ID: _____ Temp. _____	
Cooler ID: _____ Temp. _____	



4.3 Sample Chromatograms

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



CTM-033 - Draft Method for Sampling and Analysis of Hydrogen Cyanide Emissions from Stationary Sources

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Inorganic Analysis Action / Comment Form

* Please note any action or anomalies
impacting this set of samples

Client ID: Arrow Environmental

Maxxam Job #: B0D7239

Autosampler Index

Analysis	Worksheet	Run Date	Run #	Start Lab ID	End Lab ID	START	END	Analyst ID
Hydrogen Cyanide	2293292	2010/10/14	1	HI4533-01R	HI6327-01R	24	30	LLE

Actions:

*Impacted Sample ID's

Bottle discrepancies

NO

Interferences observed

NO

Reintegrations performed

YES

Dilutions performed

YES

Field / Trip blanks missing

Other

Explanation/comments:

Samples diluted to be within calibration range.

Re-integrated due to poor automated baseline construction .

Re-integrated to split peak due to misidentification of peak.

RUN DATE 2010/10/14
ANALYST L Le
INSTRUMENT DX 600

TESTCODE CNM33-IP

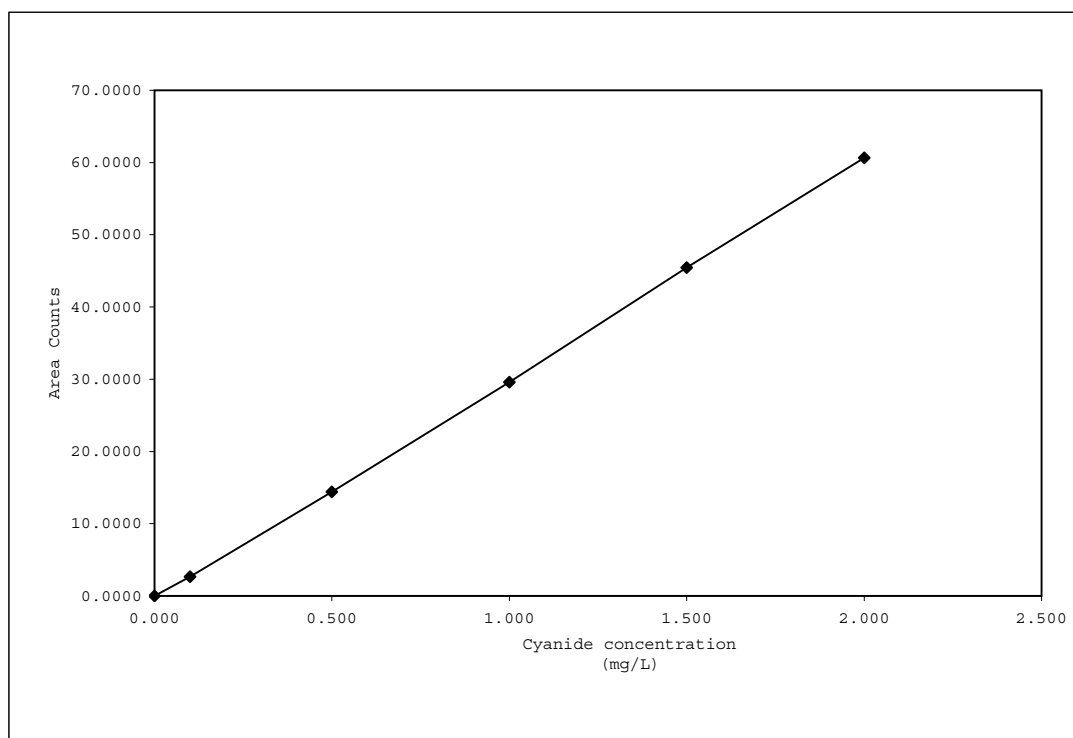
COMPONENT Hydrogen Cyanide

Spike (mg/L) 1.000
Units factor 1.038

Standard / Reagent	Prepared	Traceability
Stock Calibration Standard	2010/09/20	good
Stock Reference Standard	2009/11/03	good
Intermediate Mixed Cal. Standard (IS)	2010/10/08	good
Intermediate Mixed Ref. Standard (IR)	2010/10/08	good
Working Calibration Standards	2010/10/08	good
Working Reference Standards	2010/10/08	good
Working Eluent Solution	2010/10/05	good

Std ID	Actual Amount	Counts
1	0.000	0.0000
2	0.100	2.6368
3	0.500	14.4012
4	1.000	29.5763
5	1.500	45.4495
6	2.000	60.6670

Method Criteria	Limits	Expected	Results
1st Order Correlation	-	> 0.995	0.9999
ICV (ppm)	± 0.075	1.500	1.4952
ERA	± 0.15	1.500	1.4930
Blank (ppm)	-	< 0.025	
Blank Spike (ppm)	± 0.150	1.000	
Duplicates (±%)	25	-	
Matrix Spike (%)	80 - 1.20	100	
CCB	-	< 0.025	
CCV	± 0.150	1.000	



Job #	Worksheet #	Maxxam ID	Sample Volume (mL)	CN reading (mg/L)	Dilution at IC	HCN in sample (ug)	RDL (ug)	Spike or Dups (%)	Pass Fail
B0D7520	2297823	Blank	18000	0.0000		0.0	1800.0		Blank pass
	2297823	Spike	18000	1.0334		19308.0	1800.0	103.3	Spike pass
	2297823	HI5577-01R	18000	0.0000	1	0.0	1800.0		
	2297823	HI5911-01R	200	0.0000	1	0.0	20.0		
	2297823	HI5918-01R	24000	0.0000	1	0.0	2400.0		
	2297823	HI591801R:D1		0.0000		0.0	2400.0	#DIV/0!	#DIV/0!
	2297823	MATSPK		1.0005		24924.5		100.1	MATSPK pass
	2297823	HI5919-01R	24000	0.0000	1	0.0	2400.0		
	2297823	HI5921-01R	24000	0.0000	1	0.0	2400.0		
	0								
		CCB		0.0000					CCB pass
		CCV		1.0497					CCV pass
		CCB							
		CCV							

CCB pass
CCV pass

COMPONENT | Volume

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Sequence: 1014
Operator: lc-012

Page 1 of 4
Printed: 2010/10/15 12:26:06 PM

Title:
Datasource: D2G8FF21_local
Location: HCN2010
Timebase: DX600
#Samples: 70

Created: 2010/10/14 9:07:54 AM by lc-012
Last Update: 2010/10/15 12:24:25 PM by lc-012

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	MBLANK	Unknown	1	50.0	HCN2010	CN2010	Finished	2010/10/14 9:47:12 AM	1.0000
2	MBLANK	Unknown	2	50.0	HCN2010	CN2010	Finished	2010/10/14 9:59:30 AM	1.0000
3	CALIB STD1	Standard	3	50.0	HCN2010	CN2010	Finished	2010/10/14 10:11:47 AM	1.0000
4	CALIB STD2	Standard	4	50.0	HCN2010	CN2010	Finished	2010/10/14 10:24:04 AM	1.0000
5	CALIB STD3	Standard	5	50.0	HCN2010	CN2010	Finished	2010/10/14 10:36:22 AM	1.0000
6	CALIB STD4	Standard	6	50.0	HCN2010	CN2010	Finished	2010/10/14 10:48:39 AM	1.0000
7	CALIB STD5	Standard	7	50.0	HCN2010	CN2010	Finished	2010/10/14 11:00:56 AM	1.0000
8	ICB	Unknown	8	50.0	HCN2010	CN2010	Finished	2010/10/14 11:13:13 AM	1.0000
9	ICV	Unknown	9	50.0	HCN2010	CN2010	Finished	2010/10/14 11:25:30 AM	1.0000
10	QCSPEX-CN	Unknown	10	50.0	HCN2010	CN2010	Finished	2010/10/14 11:59:00 AM	1.0000
11	MBLANK	Unknown	11	50.0	HCN2010	CN2010	Finished	2010/10/14 12:51:09 PM	1.0000
12	MBSPIKE	Unknown	12	50.0	HCN2010	CN2010	Finished	2010/10/14 1:03:26 PM	1.0000
13	HI5577	Unknown	13	50.0	HCN2010	CN2010	Finished	2010/10/14 1:15:44 PM	1.0000
14	HI5911	Unknown	14	50.0	HCN2010	CN2010	Finished	2010/10/14 1:28:01 PM	1.0000
15	HI5918	Unknown	15	50.0	HCN2010	CN2010	Finished	2010/10/14 1:40:18 PM	1.0000
16	HI5918DUP	Unknown	16	50.0	HCN2010	CN2010	Finished	2010/10/14 1:52:35 PM	1.0000
17	HI5918SPK	Unknown	17	50.0	HCN2010	CN2010	Finished	2010/10/14 2:04:52 PM	1.0000
18	HI5919	Unknown	18	50.0	HCN2010	CN2010	Finished	2010/10/14 2:17:09 PM	1.0000
19	HI5921	Unknown	19	50.0	HCN2010	CN2010	Finished	2010/10/14 2:29:27 PM	1.0000
20	CCB	Unknown	20	50.0	HCN2010	CN2010	Finished	2010/10/14 2:41:43 PM	1.0000
21	CCV	Unknown	21	50.0	HCN2010	CN2010	Finished	2010/10/14 2:54:00 PM	1.0000
22	MBLANK	Unknown	22	50.0	HCN2010	CN2010	Finished	2010/10/14 3:06:17 PM	1.0000
23	MBSPIKE	Unknown	23	50.0	HCN2010	CN2010	Finished	2010/10/14 3:18:34 PM	1.0000
24	HI4533	Unknown	24	50.0	HCN2010	CN2010	Finished	2010/10/14 3:30:51 PM	1.0000
25	HI4534	Unknown	25	50.0	HCN2010	CN2010	Finished	2010/10/14 3:43:09 PM	1.0000
26	HI4535	Unknown	26	50.0	HCN2010	CN2010	Finished	2010/10/14 3:55:27 PM	1.0000
27	HI4535DUP	Unknown	27	50.0	HCN2010	CN2010	Finished	2010/10/14 4:07:44 PM	1.0000
28	HI4535SPK	Unknown	28	50.0	HCN2010	CN2010	Finished	2010/10/14 4:20:01 PM	1.0000
29	HI4536	Unknown	29	50.0	HCN2010	CN2010	Finished	2010/10/14 4:32:18 PM	1.0000
30	HI6327	Unknown	30	50.0	HCN2010	CN2010	Finished	2010/10/14 4:44:36 PM	1.0000
31	HI6327	Unknown	31	50.0	HCN2010	CN2010	Finished	2010/10/14 4:56:53 PM	1.0000
32	RINSE	Unknown	32	50.0	HCN2010	CN2010	Finished	2010/10/14 5:09:11 PM	1.0000
33	CCB	Unknown	33	50.0	HCN2010	CN2010	Finished	2010/10/14 5:21:28 PM	1.0000
34	CCV	Unknown	34	50.0	HCN2010	CN2010	Finished	2010/10/14 5:33:45 PM	1.0000
35	HI4526	Unknown	35	50.0	HCN2010	CN2010	Finished	2010/10/14 5:46:02 PM	1.0000
36	HI4527	Unknown	36	50.0	HCN2010	CN2010	Finished	2010/10/14 5:58:19 PM	1.0000
37	HI4528	Unknown	37	50.0	HCN2010	CN2010	Finished	2010/10/14 6:10:36 PM	1.0000
38	HI4529	Unknown	38	50.0	HCN2010	CN2010	Finished	2010/10/14 6:22:53 PM	1.0000
39	HI4530	Unknown	39	50.0	HCN2010	CN2010	Finished	2010/10/14 6:35:10 PM	1.0000
40	HI4531	Unknown	40	50.0	HCN2010	CN2010	Interrupted	2010/10/14 6:47:27 PM	1.0000
41	MBLANK	Unknown	1	50.0	HCN2010	CN2010	Finished	2010/10/15 11:44:43 AM	1.0000
42	MBLANK	Unknown	2	50.0	HCN2010	CN2010	Finished	2010/10/15 11:57:00 AM	1.0000

Sequence: 1014
Operator: lc-012

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Printed: 2010/10/15 12:26:07 PM

Title:
Datasource: D2G8FF21_local
Location: HCN\2010
Timebase: DX600
#Samples: 70

Created: 2010/10/14 9:07:54 AM by lc-012
Last Update: 2010/10/15 12:24:25 PM by lc-012





























No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	MBLANK	1.0000	1.0000 *		01	*
2	MBLANK	1.0000	1.0000 *		01	*
3	CALIB STD1	1.0000	1.0000 *		01	Cal Standards prepare 2010/10/08
4	CALIB STD2	1.0000	1.0000 *		01	*
5	CALIB STD3	1.0000	1.0000 *		01	*
6	CALIB STD4	1.0000	1.0000 *		01	*
7	CALIB STD5	1.0000	1.0000 *		01	*
8	ICB	1.0000	1.0000 *		01	*
9	ICV	1.0000	1.0000 *		01	*
10	QCSPEX-CN	1.0000	1.0000 *		01	*
11	MBLANK	1.0000	1.0000 *		01	*
12	MBSPIKE	1.0000	1.0000 *		01	*
13	HI5577	1.0000	1.0000 *		01	*
14	HI5911	1.0000	1.0000 *		01	*
15	HI5918	1.0000	1.0000 *		01	*
16	HI5918DUP	1.0000	1.0000 *		01	*
17	HI5918SPK	1.0000	1.0000 *		01	*
18	HI5919	1.0000	1.0000 *		01	*
19	HI5921	1.0000	1.0000 *		01	*
20	CCB	1.0000	1.0000 *		01	*
21	CCV	1.0000	1.0000 *		01	*
22	MBLANK	1.0000	1.0000 *		01	*
23	MBSPIKE	1.0000	1.0000 *		01	*
24	HI4533	1.0000	1.0000 *		01	*
25	HI4534	1.0000	1.0000 *		01	*
26	HI4535	1.0000	1.0000 *		01	*
27	HI4535DUP	1.0000	1.0000 *		01	*
28	HI4535SPK	1.0000	1.0000 *		01	*
29	HI4536	1.0000	1.0000 *		01	*
30	HI6327	5000.0000	1.0000 *		01	*
31	HI6327	2500.0000	1.0000 *		01	*
32	RINSE	1.0000	1.0000 *		01	*
33	CCB	1.0000	1.0000 *		01	*
34	CCV	1.0000	1.0000 *		01	*
35	HI4526	1.0000	1.0000 *		01	*
36	HI4527	1.0000	1.0000 *		01	*
37	HI4528	1.0000	1.0000 *		01	*
38	HI4529	1.0000	1.0000 *		01	*
39	HI4530	1.0000	1.0000 *		01	*
40	HI4531	1.0000	1.0000 *		01	*
41	MBLANK	1.0000	1.0000 *		01	*
42	MBLANK	1.0000	1.0000 *		01	*

Sequence: 1014
Operator: lc-012

Page 3 of 4
Printed: 2010/10/15 12:26:07 PM

Title:
Datasource: D2G8FF21_local
Location: HCN\2010
Timebase: DX600
#Samples: 70

Created: 2010/10/14 9:07:54 AM by lc-012
Last Update: 2010/10/15 12:24:25 PM by lc-012





























No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
43	 MBSPIKE	Unknown	3	50.0	HCN2010	CN2010	Interrupted	2010/10/15 12:24:25 PM	1.0000
44	 HI4516	Unknown	4	50.0	HCN2010	CN2010	Single	2010/10/15 12:15:56 PM	1.0000
45	 HI4517	Unknown	5	50.0	HCN2010	CN2010	Single		1.0000
46	 HI4518	Unknown	6	50.0	HCN2010	CN2010	Single		1.0000
47	 HI4518DUP	Unknown	7	50.0	HCN2010	CN2010	Single		1.0000
48	 HI4518SPK	Unknown	8	50.0	HCN2010	CN2010	Single		1.0000
49	 HI4519	Unknown	9	50.0	HCN2010	CN2010	Single		1.0000
50	 HI4520	Unknown	10	50.0	HCN2010	CN2010	Single		1.0000
51	 HI4521	Unknown	11	50.0	HCN2010	CN2010	Single		1.0000
52	 HI4522	Unknown	12	50.0	HCN2010	CN2010	Single		1.0000
53	 HI4523	Unknown	13	50.0	HCN2010	CN2010	Single		1.0000
54	 HI4524	Unknown	14	50.0	HCN2010	CN2010	Single		1.0000
55	 HI4525	Unknown	15	50.0	HCN2010	CN2010	Single		1.0000
56	 CCB	Unknown	16	50.0	HCN2010	CN2010	Single		1.0000
57	 CCV	Unknown	17	50.0	HCN2010	CN2010	Single		1.0000
58	 HI4526	Unknown	18	50.0	HCN2010	CN2010	Single		1.0000
59	 HI4527	Unknown	19	50.0	HCN2010	CN2010	Single		1.0000
60	 HI4528	Unknown	20	50.0	HCN2010	CN2010	Single		1.0000
61	 HI4529	Unknown	21	50.0	HCN2010	CN2010	Single		1.0000
62	 HI4530	Unknown	22	50.0	HCN2010	CN2010	Single		1.0000
63	 HI4531	Unknown	23	50.0	HCN2010	CN2010	Single		1.0000
64	 HI4532	Unknown	24	50.0	HCN2010	CN2010	Single		1.0000
65	 HI4512	Unknown	25	50.0	HCN2010	CN2010	Single		1.0000
66	 HI4514	Unknown	26	50.0	HCN2010	CN2010	Single		1.0000
67	 HI4515	Unknown	27	50.0	HCN2010	CN2010	Single		1.0000
68	 CCB	Unknown	28	50.0	HCN2010	CN2010	Single		1.0000
69	 CCV	Unknown	29	50.0	HCN2010	CN2010	Single		1.0000
70	 SHUT	Unknown	30	50.0	shut	CN2010	Single		1.0000

Sequence: 1014
Operator: lc-012

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Printed: 2010/10/15 12:26:07 PM

Title:
Datasource: D2G8FF21_local
Location: HCN2010
Timebase: DX600
#Samples: 70

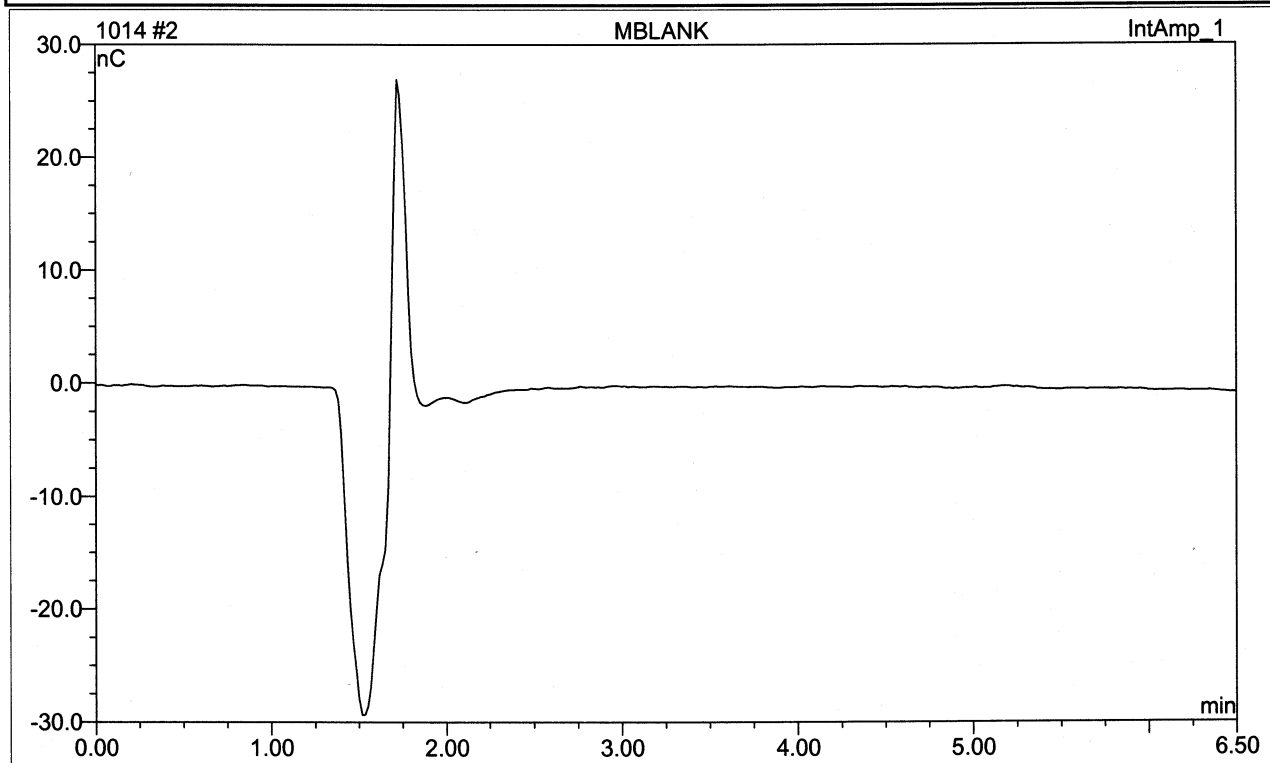
Created: 2010/10/14 9:07:54 AM by lc-012
Last Update: 2010/10/15 12:24:25 PM by lc-012

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
43	 MBSPIKE	1.0000	1.0000 *		01	*
44	 HI4516	1.0000	1.0000 *		01	*
45	 HI4517	1.0000	1.0000 *		01	*
46	 HI4518	2.0000	1.0000 *		01	*
47	 HI4518DUP	2.0000	1.0000 *		01	*
48	 HI4518SPK	2.0000	1.0000 *		01	*
49	 HI4519	1.0000	1.0000 *		01	*
50	 HI4520	1.0000	1.0000 *		01	*
51	 HI4521	1.0000	1.0000 *		01	*
52	 HI4522	1.0000	1.0000 *		01	*
53	 HI4523	1.0000	1.0000 *		01	*
54	 HI4524	1.0000	1.0000 *		01	*
55	 HI4525	1.0000	1.0000 *		01	*
56	 CCB	1.0000	1.0000 *		01	*
57	 CCV	1.0000	1.0000 *		01	*
58	 HI4526	1.0000	1.0000 *		01	*
59	 HI4527	1.0000	1.0000 *		01	*
60	 HI4528	1.0000	1.0000 *		01	*
61	 HI4529	1.0000	1.0000 *		01	*
62	 HI4530	1.0000	1.0000 *		01	*
63	 HI4531	1.0000	1.0000 *		01	*
64	 HI4532	1.0000	1.0000 *		01	*
65	 HI4512	2.0000	1.0000 *		01	*
66	 HI4514	1.0000	1.0000 *		01	*
67	 HI4515	1.0000	1.0000 *		01	*
68	 CCB	1.0000	1.0000 *		01	*
69	 CCV	1.0000	1.0000 *		01	*
70	 SHUT	1.0000	1.0000 *		01	*

2 MBLANK

*

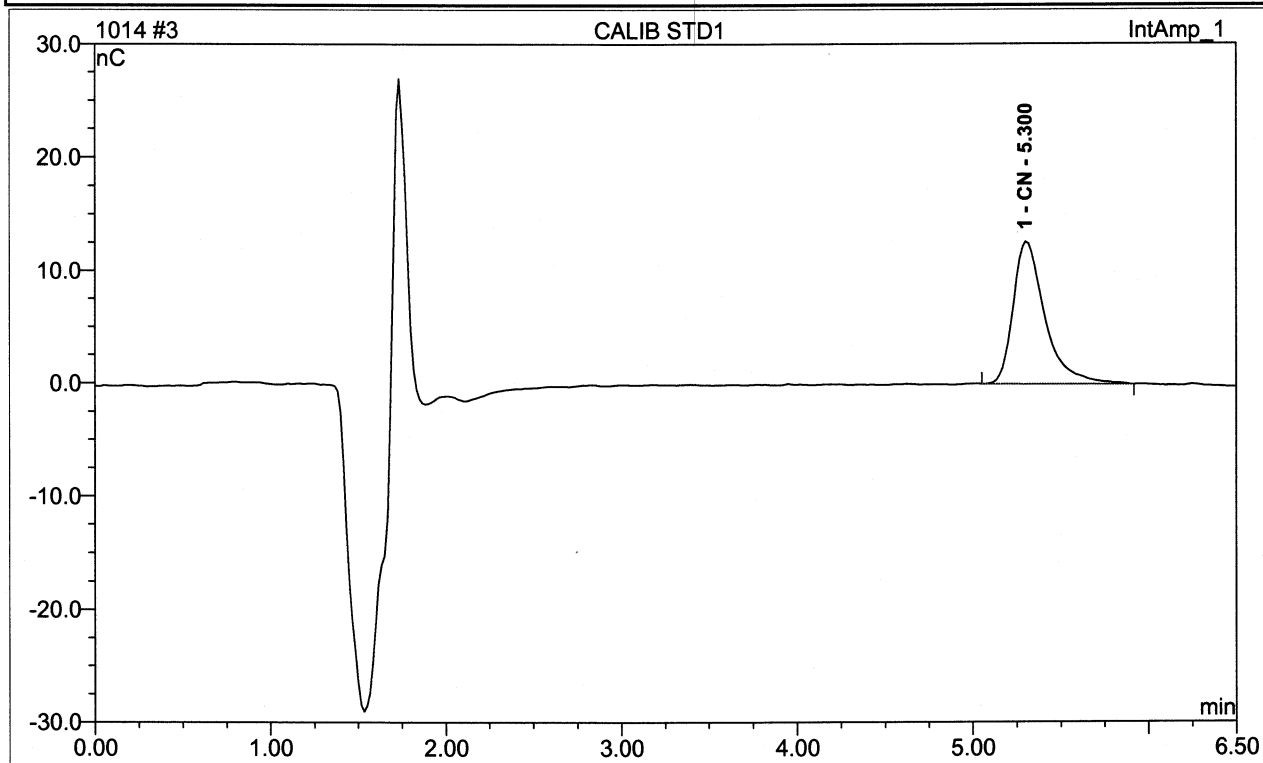
Sample Name:	MBLANK	Injection Volume:	50.0
Vial Number:	2	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 9:59	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

3 CALIB STD1**Cal Standards prepare 2010/10/08**

Sample Name:	CALIB STD1	Injection Volume:	50.0
Vial Number:	3	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 10:11	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

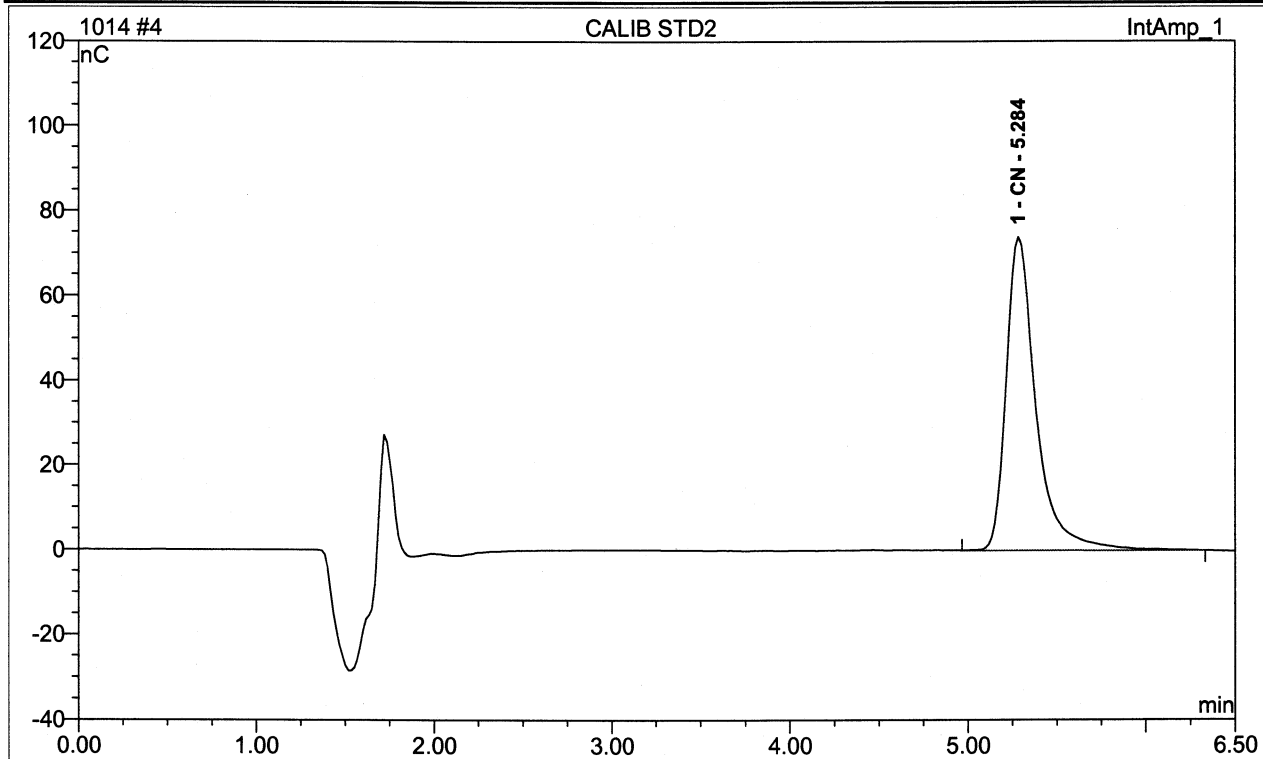


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.30	CN	12.6412	2.6368	100.00	0.1097	BMB
Total:			12.6412	2.6368	100.00	0.1097	

4 CALIB STD2

*

Sample Name:	CALIB STD2	Injection Volume:	50.0
Vial Number:	4	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 10:24	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

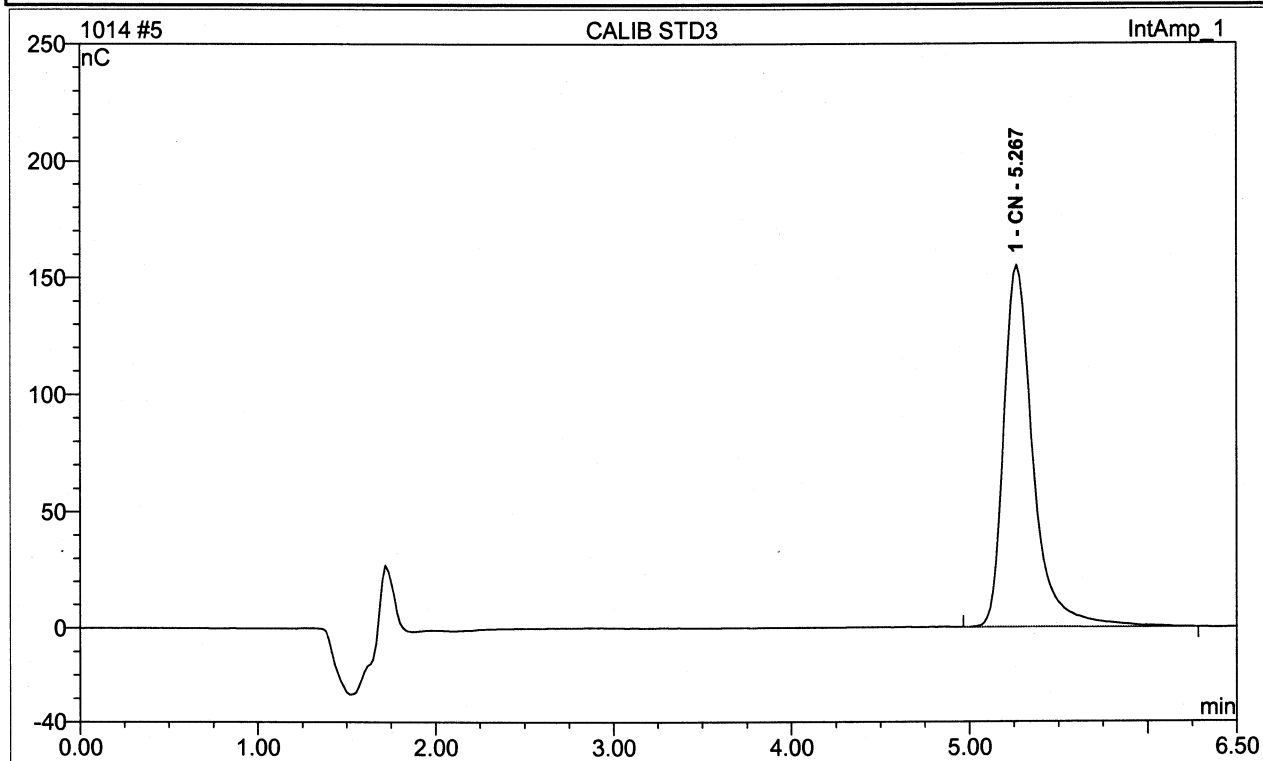


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.28	CN	74.0772	14.4012	100.00	0.4934	BMB
Total:			74.0772	14.4012	100.00	0.4934	

5 CALIB STD3

*

Sample Name:	CALIB STD3	Injection Volume:	50.0
Vial Number:	5	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 10:36	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

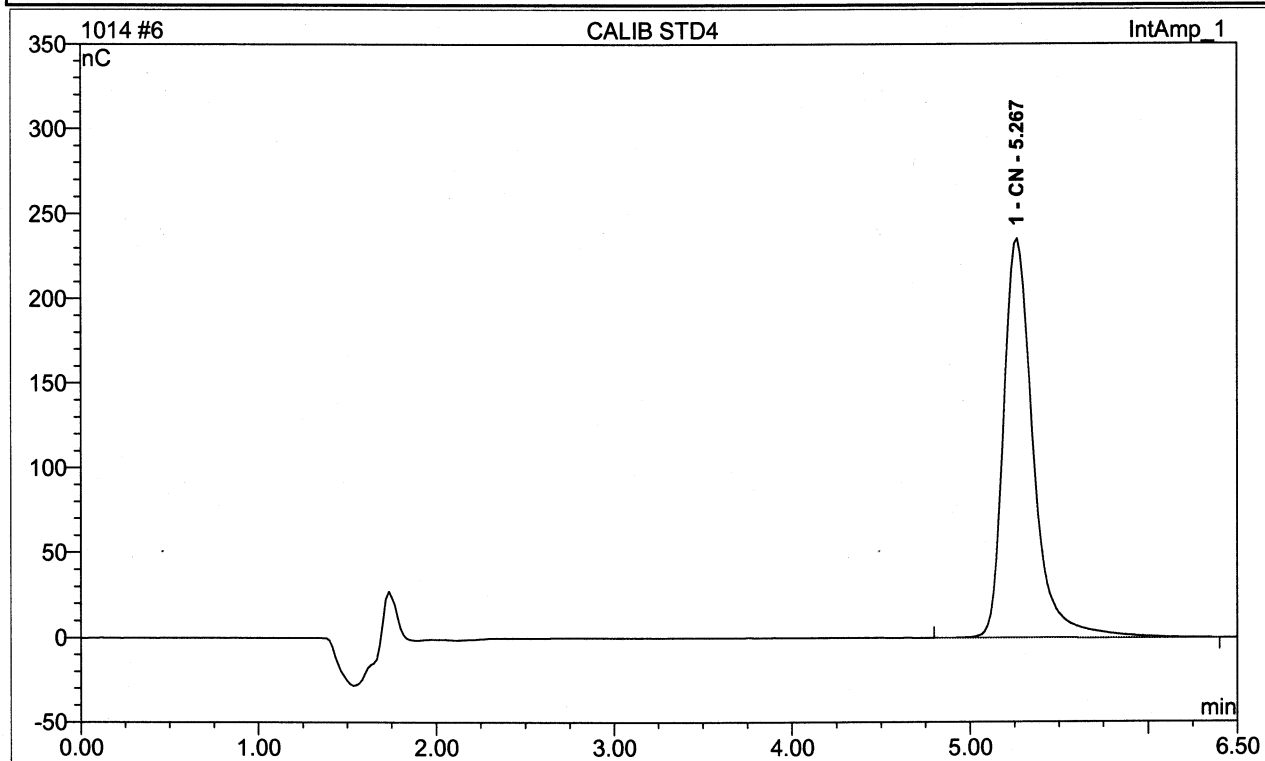


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.27	CN	154.9601	29.5763	100.00	0.9884	BMB
Total:			154.9601	29.5763	100.00	0.9884	

6 CALIB STD4

*

Sample Name:	CALIB STD4	Injection Volume:	50.0
Vial Number:	6	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 10:48	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

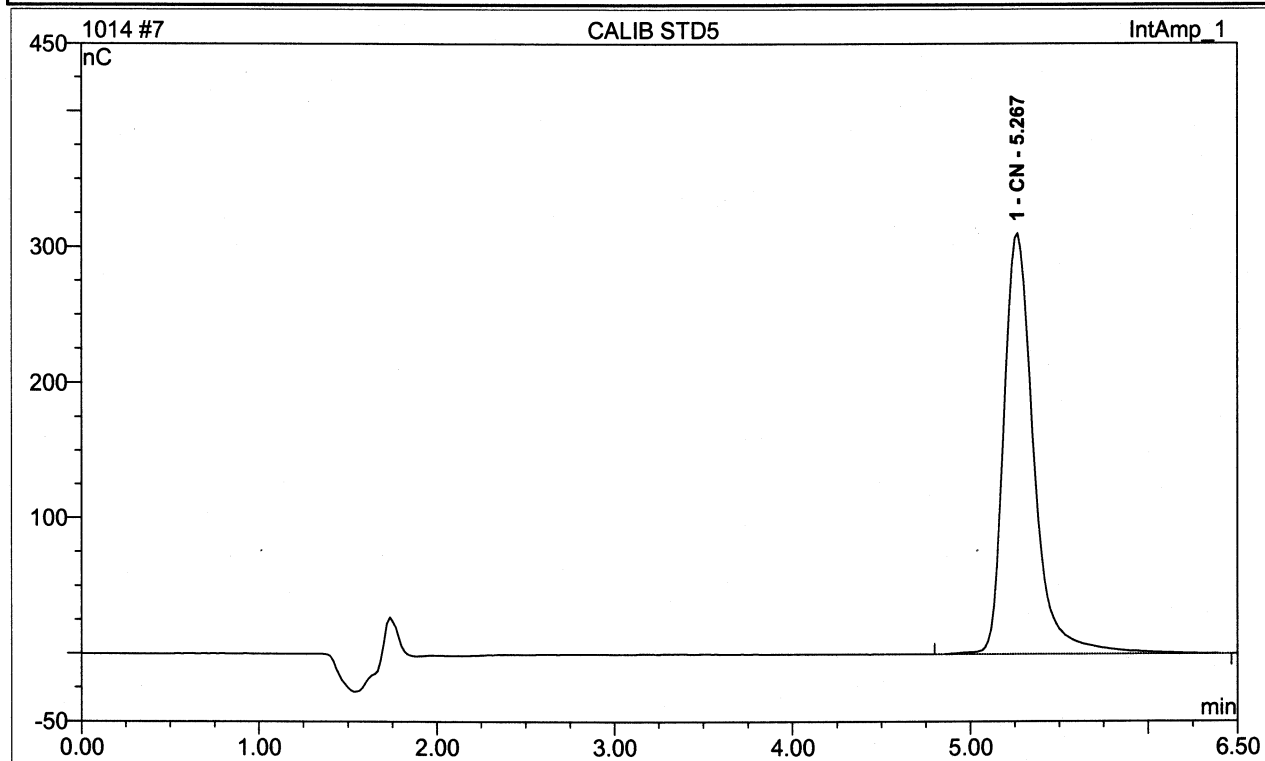


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.27	CN	235.9090	45.4495	100.00	1.5061	BMB
Total:			235.9090	45.4495	100.00	1.5061	

7 CALIB STD5

*

Sample Name:	CALIB STD5	Injection Volume:	50.0
Vial Number:	7	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 11:00	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

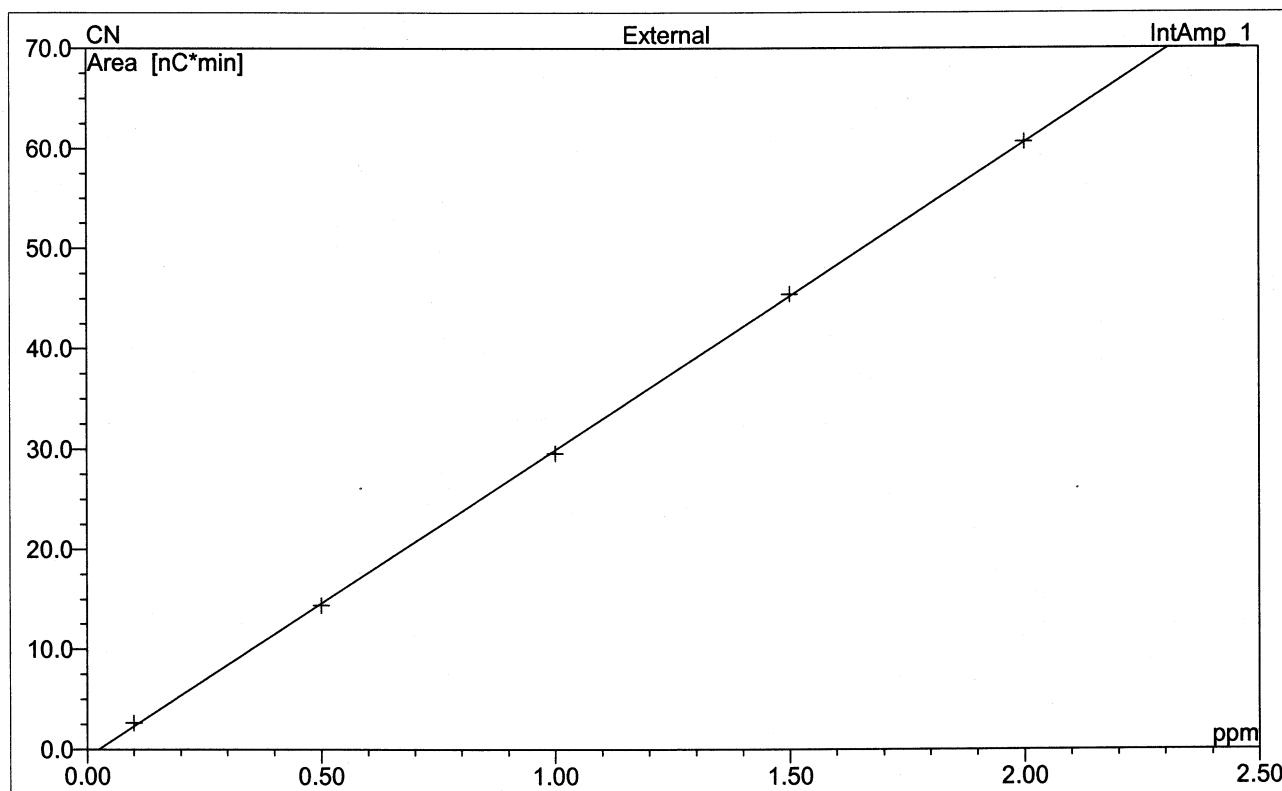


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.27	CN	310.6940	60.6670	100.00	2.0024	BMB
Total:			310.6940	60.6670	100.00	2.0024	

7 CALIB STD5

*

Sample Name:	CALIB STD5	Injection Volume:	50.0
Vial Number:	7	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	n.a.
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 11:00	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

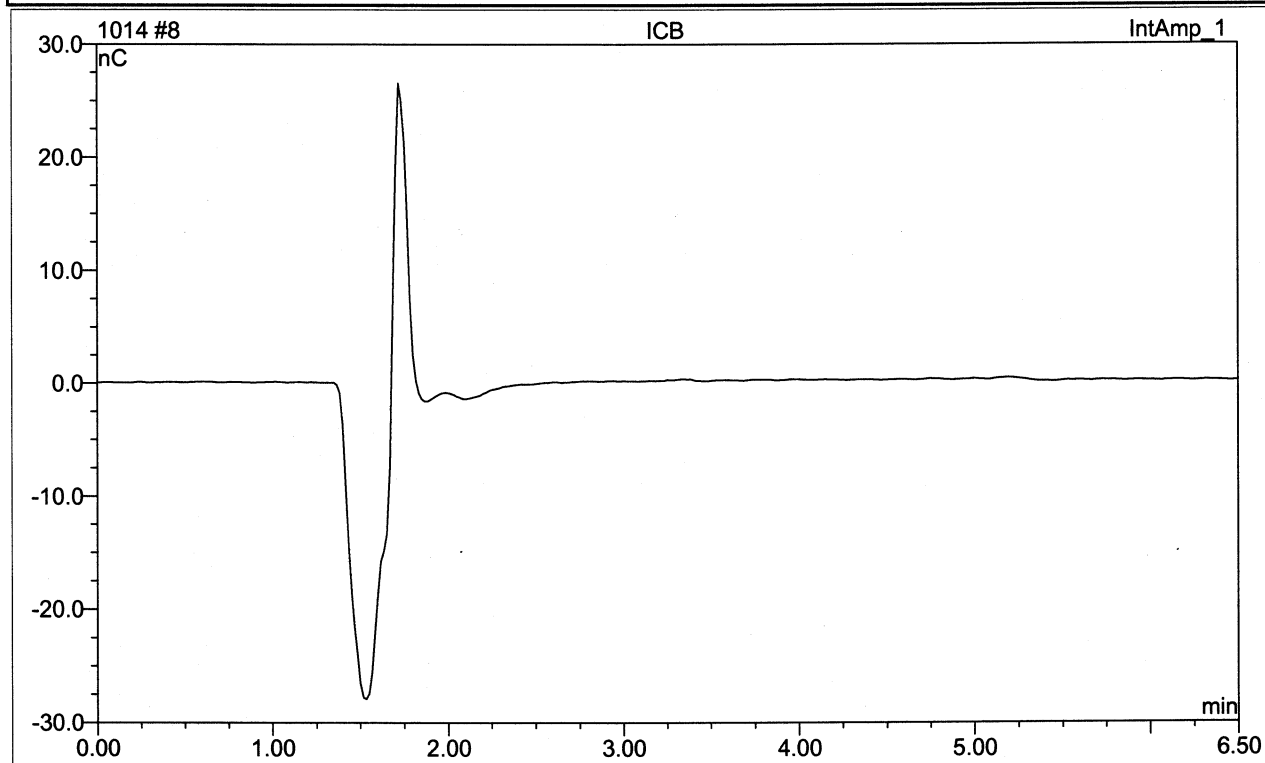


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.27	CN	LOff	5	99.9932	-0.7271	30.6601	0.0000
Average:					99.9932	-0.7271	30.6601	0.0000

8 ICB

*

Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	8	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 11:13	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

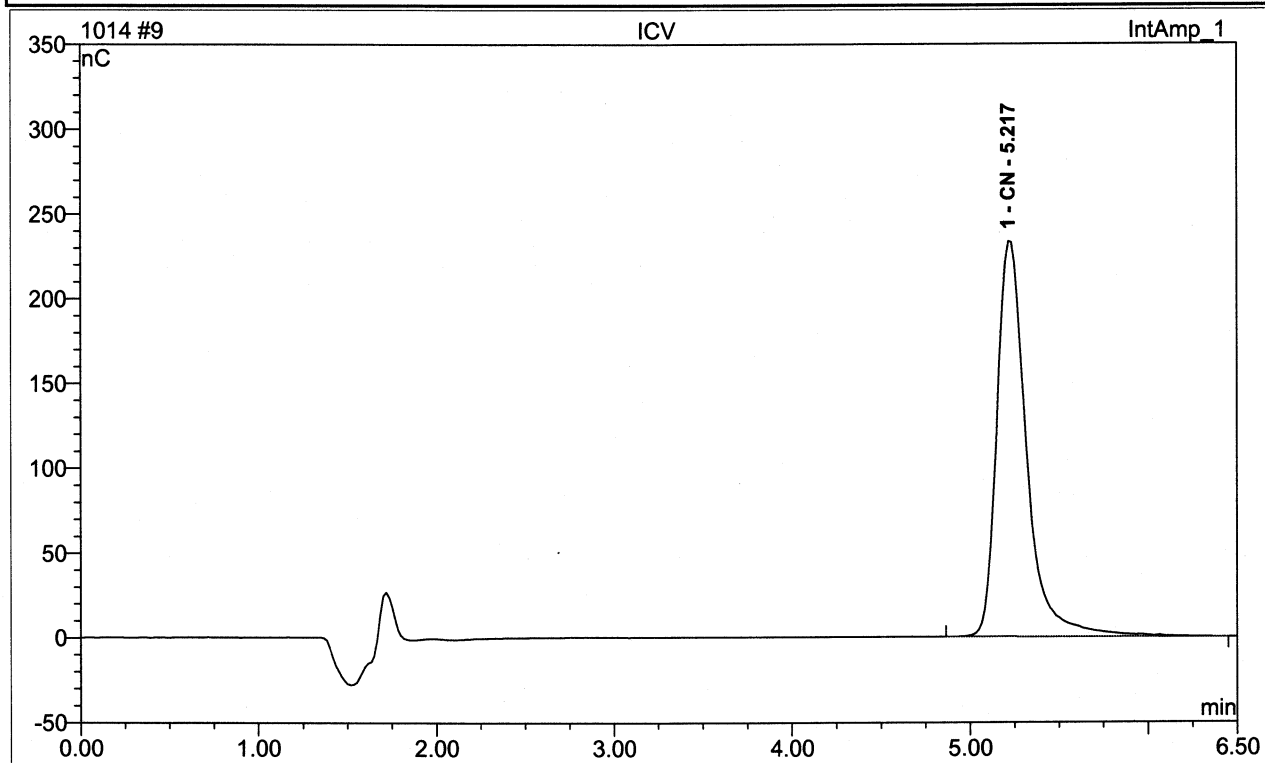


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

9 ICV

*

Sample Name:	ICV	Injection Volume:	50.0
Vial Number:	9	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 11:25	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

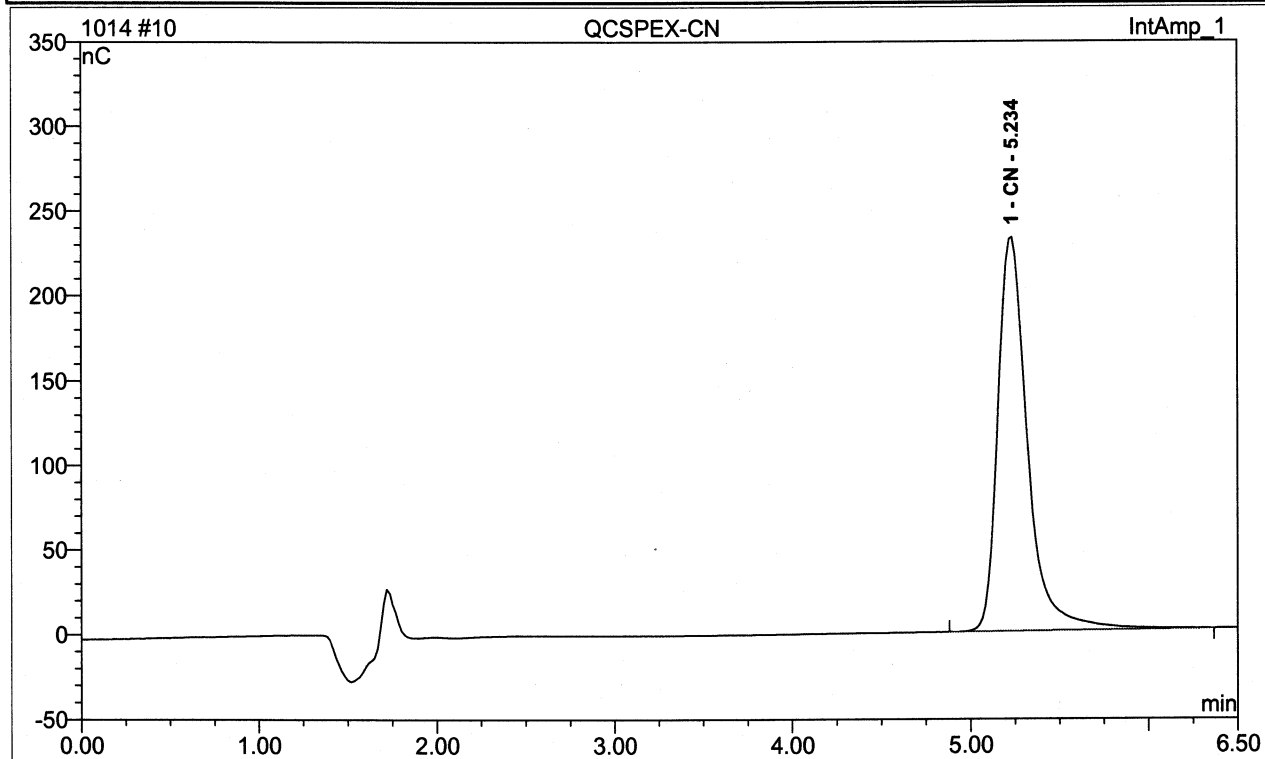


No.	Ret. Time min	Peak Name	Height nC	Area nC*min	Rel. Area %	Amount ppm	Type
1	5.22	CN	233.3699	45.1153	100.00	1.4952	BMB
Total:			233.3699	45.1153	100.00	1.4952	

10 QCSPEX-CN

*

Sample Name:	QCSPEX-CN	Injection Volume:	50.0
Vial Number:	10	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 11:59	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

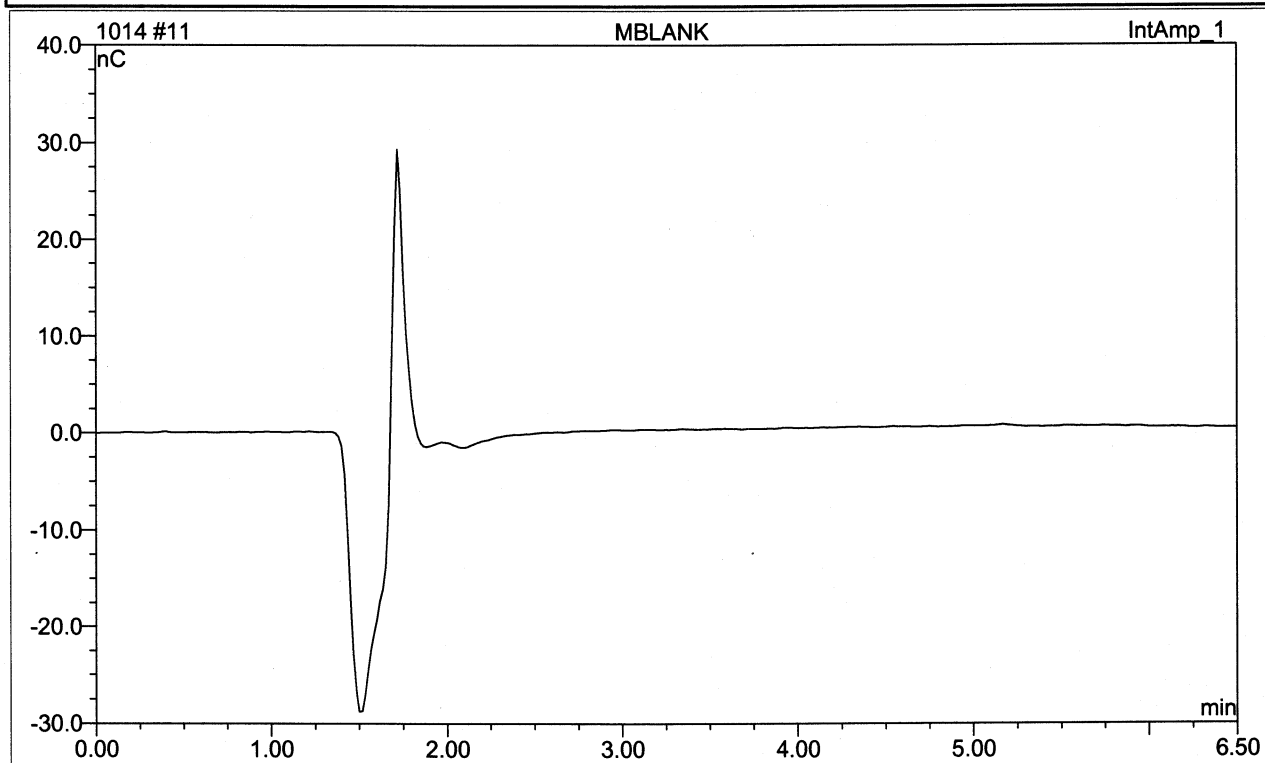


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.23	CN	232.4962	45.0497	100.00	1.4930	BMB
Total:			232.4962	45.0497	100.00	1.4930	

11 MBLANK

*

Sample Name:	MBLANK	Injection Volume:	50.0
Vial Number:	11	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 12:51	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

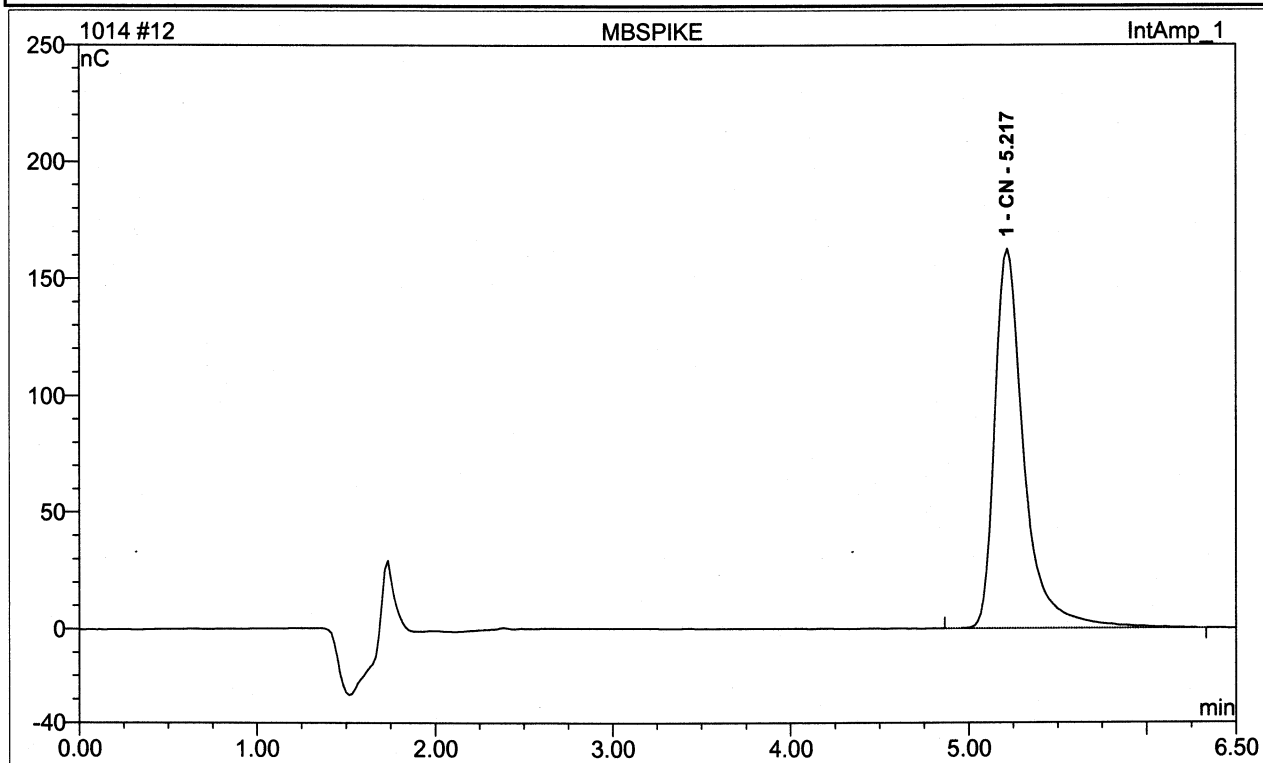


No.	Ret. Time min	Peak Name	Height nC	Area nC*min	Rel. Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

12 MBSPIKE

*

Sample Name:	MBSPIKE	Injection Volume:	50.0
Vial Number:	12	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 13:03	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

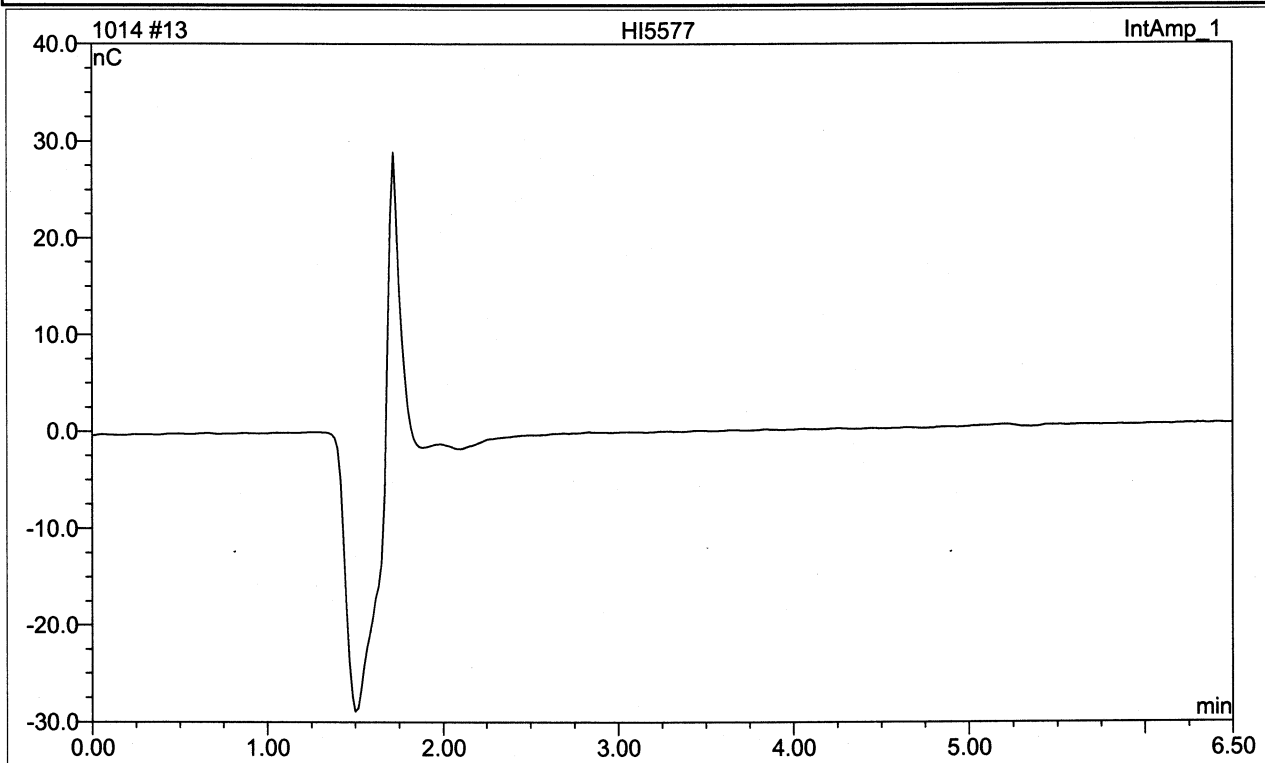


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.22	CN	162.3399	30.9565	100.00	1.0334	BMB
Total:			162.3399	30.9565	100.00	1.0334	

13 HI5577

*

Sample Name:	HI5577	Injection Volume:	50.0
Vial Number:	13	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 13:15	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

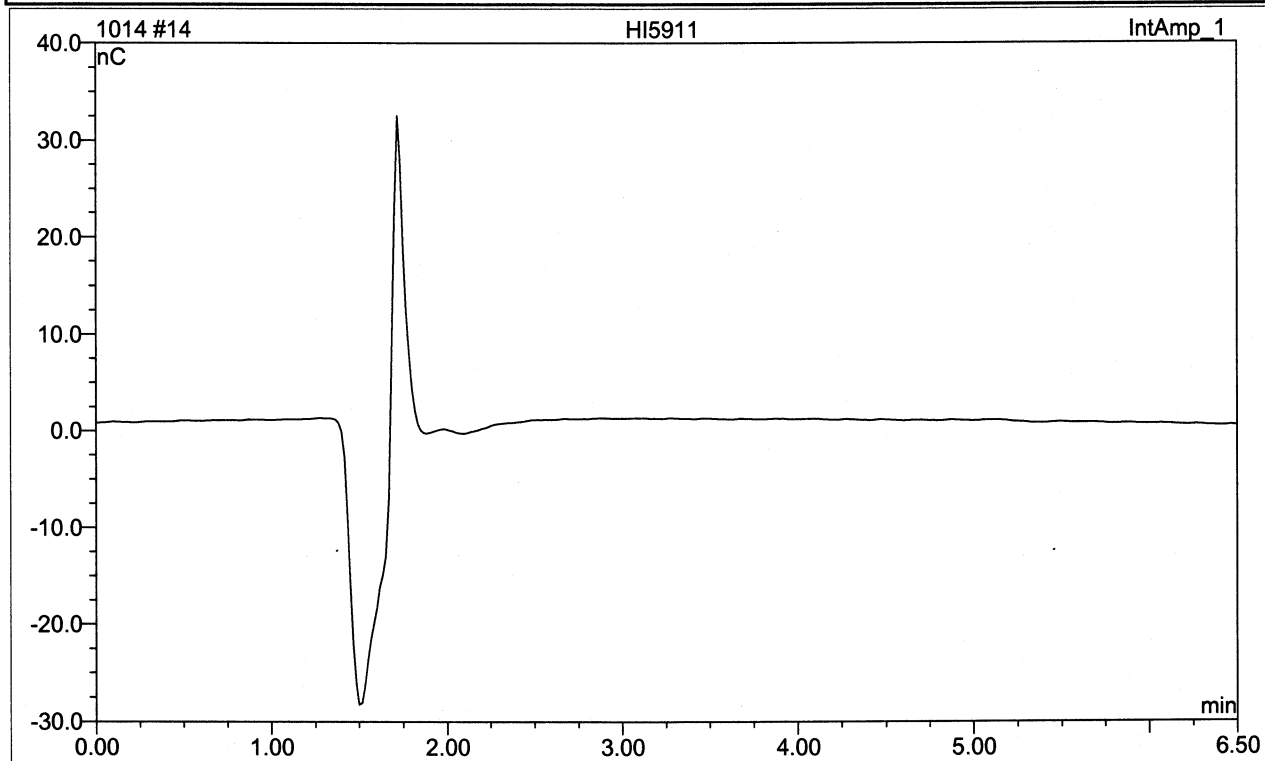


No.	Ret. Time min	Peak Name	Height nC	Area nC*min	Rel. Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

14 HI5911

*

Sample Name:	HI5911	Injection Volume:	50.0
Vial Number:	14	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 13:28	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

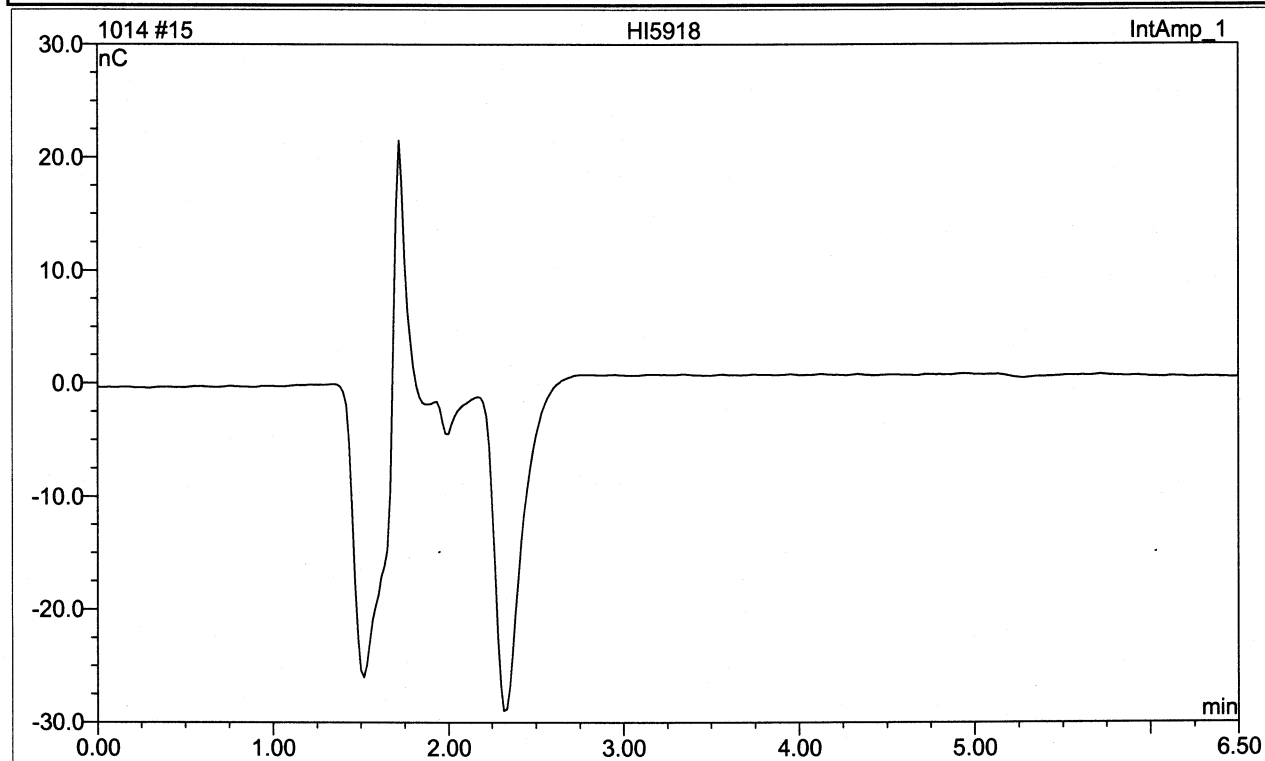


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

15 HI5918

*

Sample Name:	HI5918	Injection Volume:	50.0
Vial Number:	15	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 13:40	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

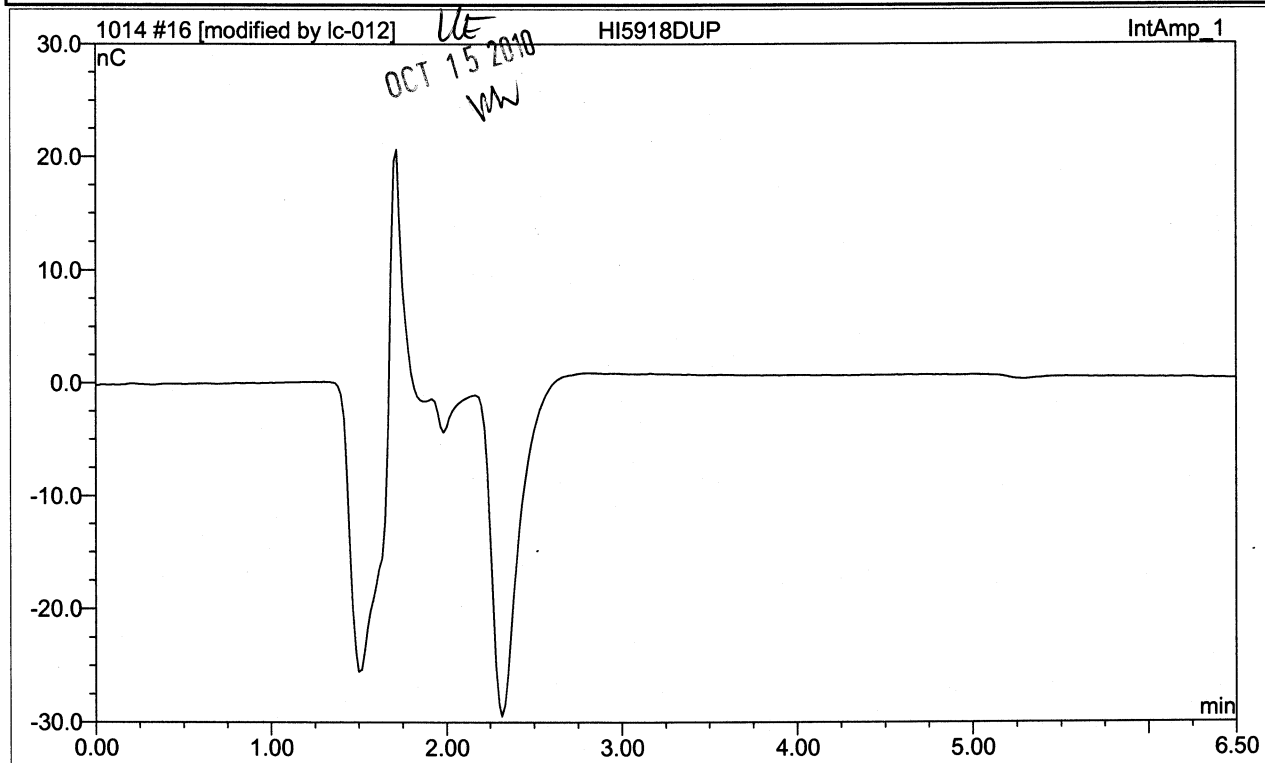


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

16 HI5918DUP

*

Sample Name:	HI5918DUP	Injection Volume:	50.0
Vial Number:	16	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 13:52	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

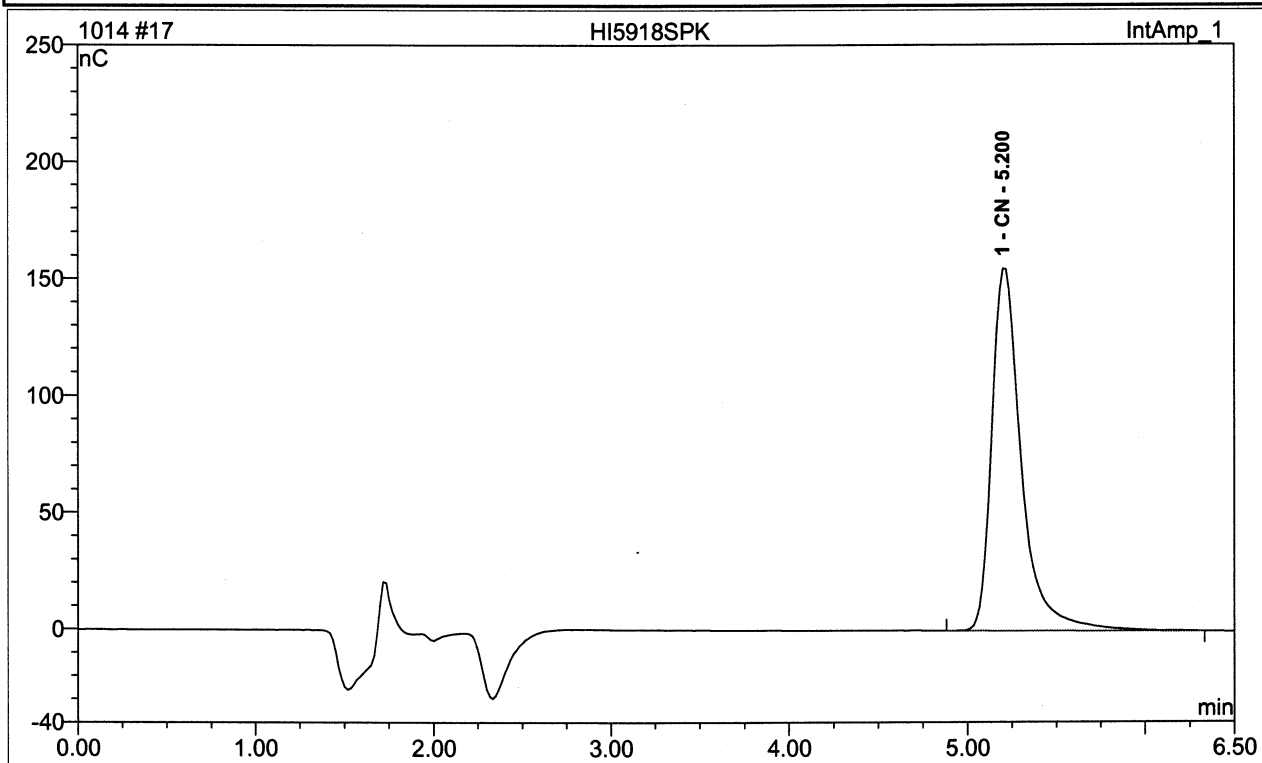


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

17 HI5918SPK

*

Sample Name:	HI5918SPK	Injection Volume:	50.0
Vial Number:	17	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 14:04	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.20	CN	155.1095	29.9476	100.00	1.0005	BMB
Total:			155.1095	29.9476	100.00	1.0005	

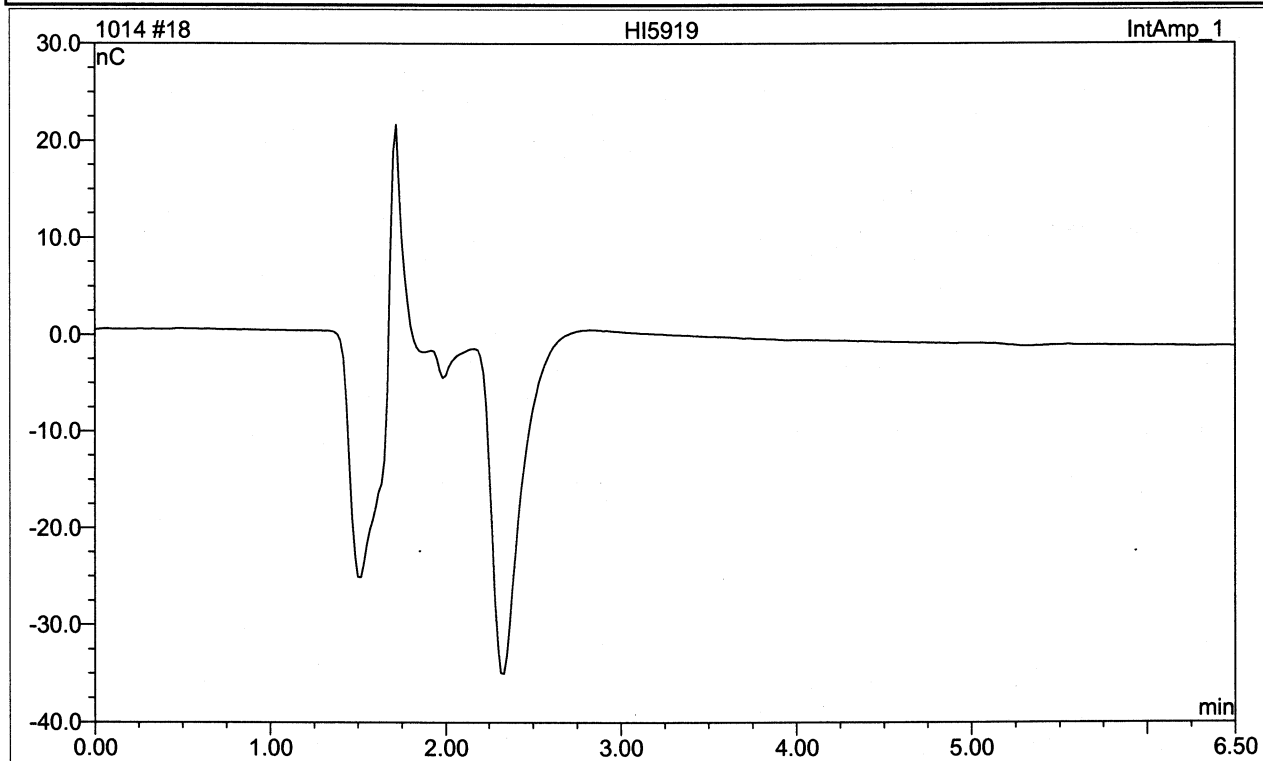
$CN^- = 1.0005 \text{ ppm}$

UE 2010/10/15

18 HI5919

*

Sample Name:	HI5919	Injection Volume:	50.0
Vial Number:	18	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 14:17	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

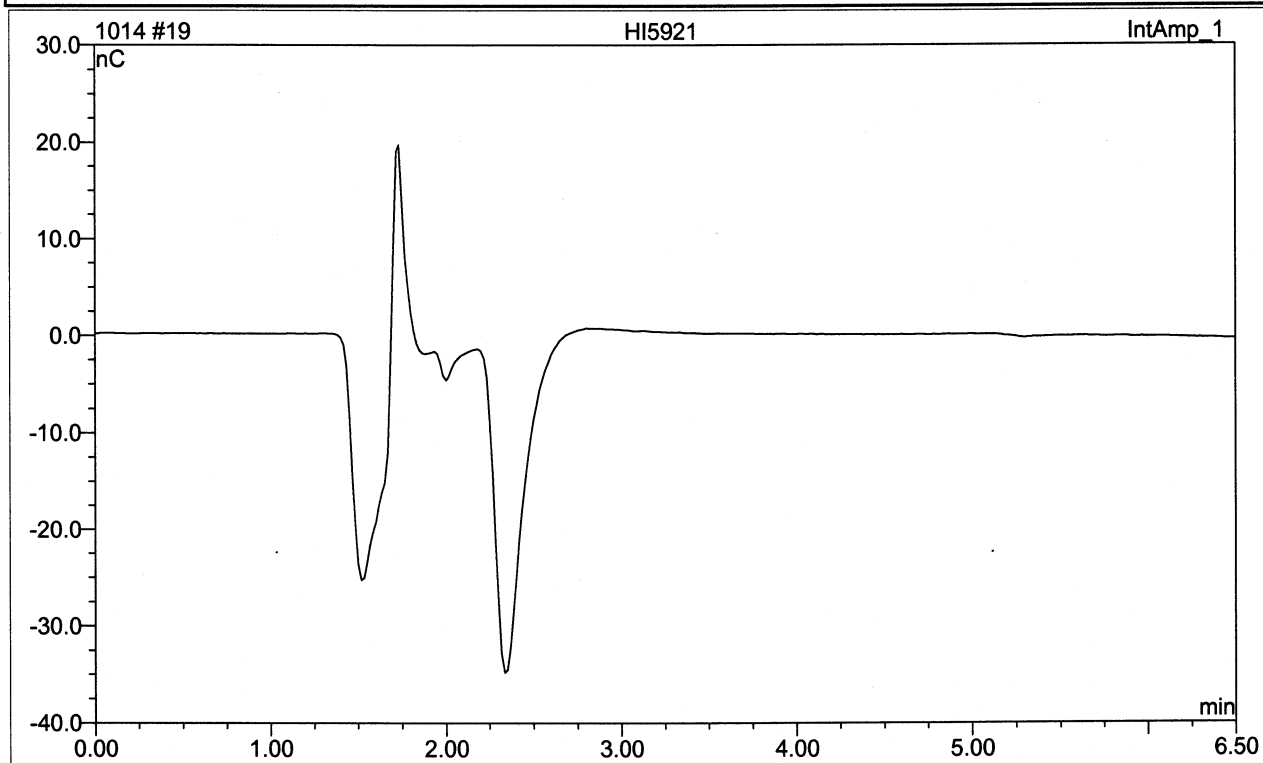


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

19 HI5921

*

Sample Name:	HI5921	Injection Volume:	50.0
Vial Number:	19	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 14:29	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

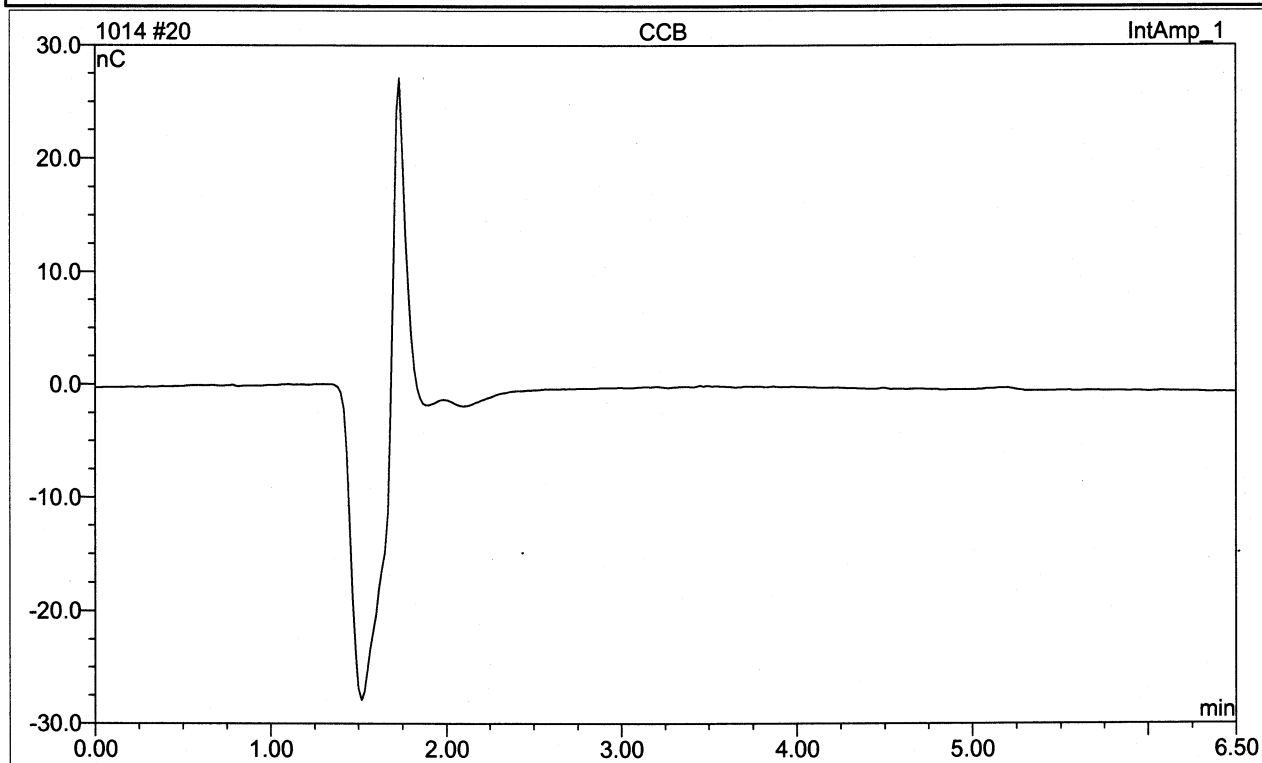


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

20 CCB

*

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	20	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 14:41	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

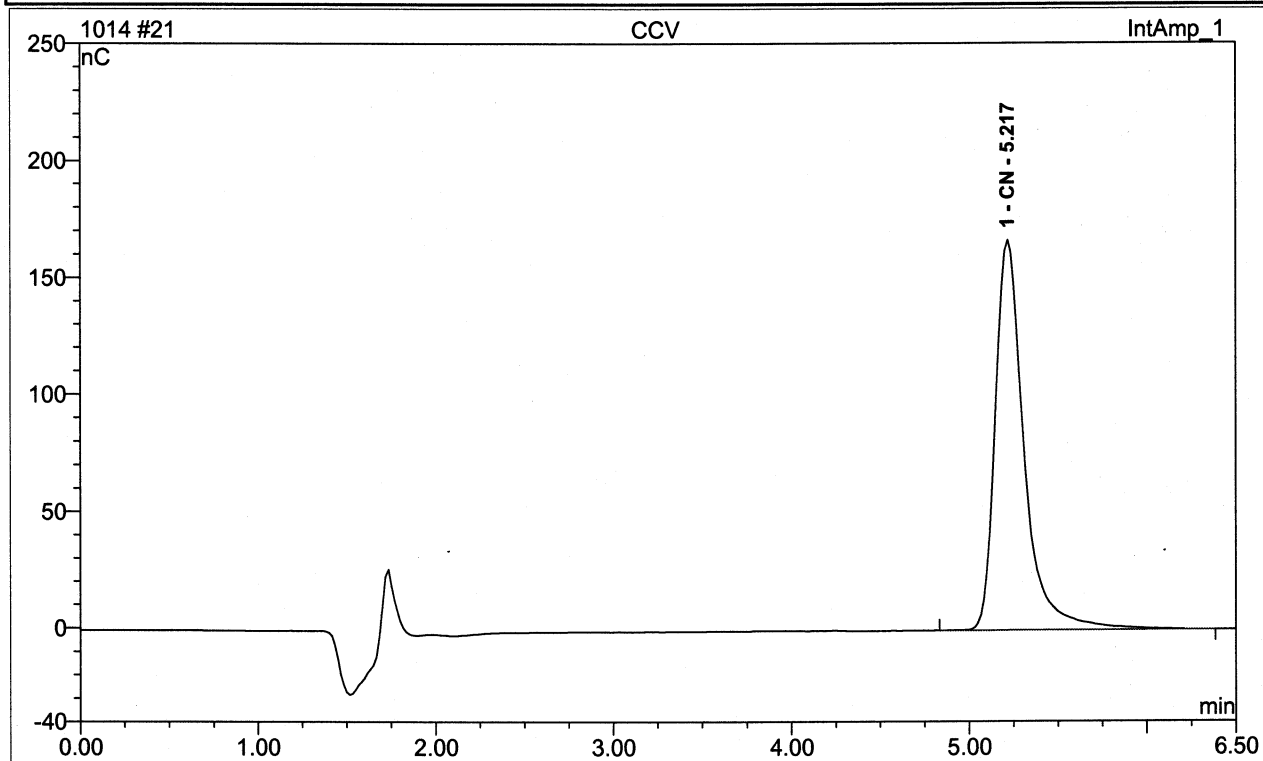


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

21 CCV

*

Sample Name:	CCV	Injection Volume:	50.0
Vial Number:	21	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 14:54	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

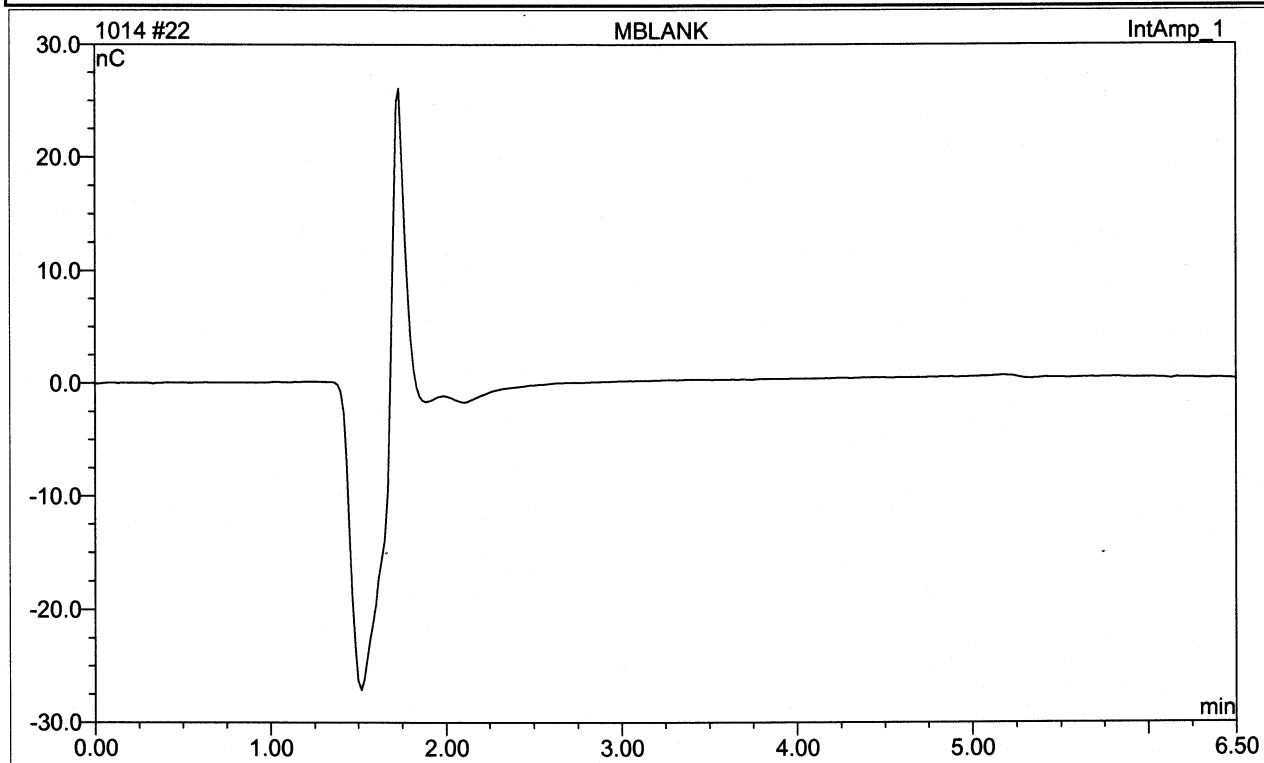


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.22	CN	166.9660	31.4561	100.00	1.0497	BMB
Total:			166.9660	31.4561	100.00	1.0497	

22 MBLANK

*

Sample Name:	MBLANK	Injection Volume:	50.0
Vial Number:	22	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 15:06	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

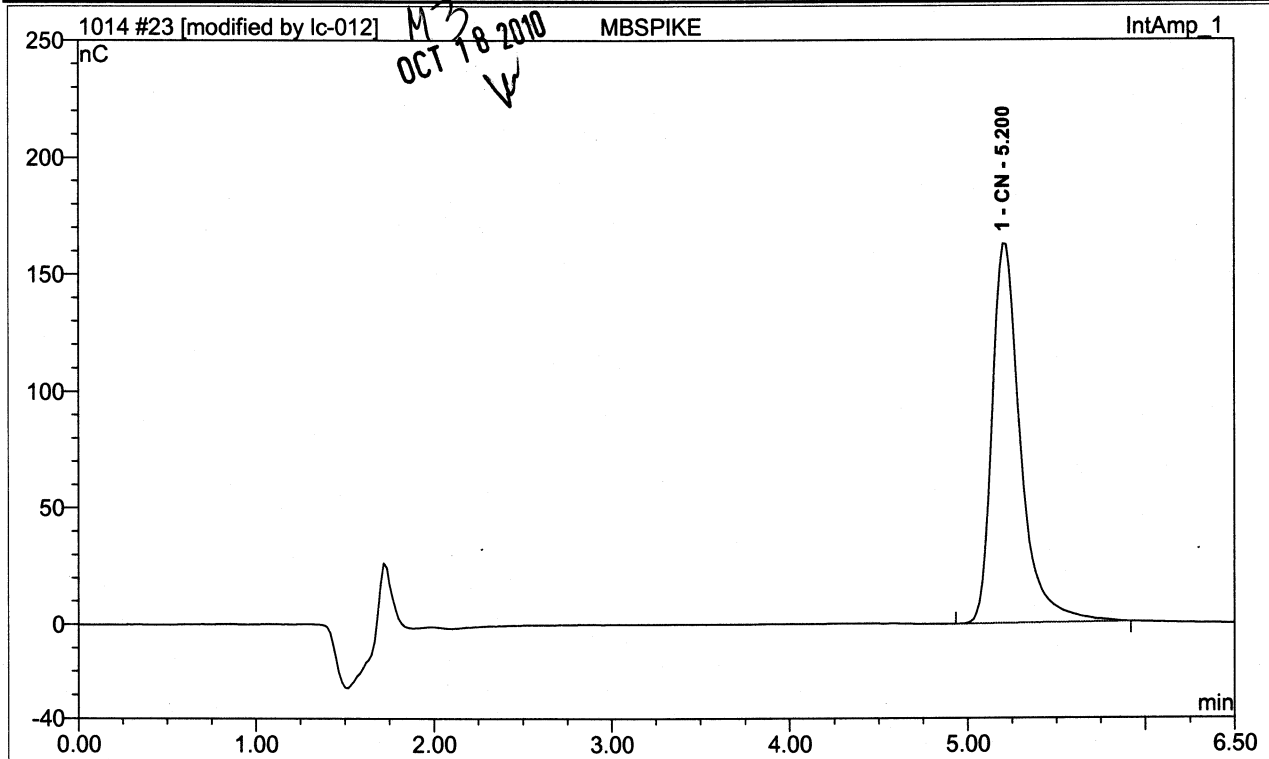


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

23 MBSPIKE

*

Sample Name:	MBSPIKE	Injection Volume:	50.0
Vial Number:	23	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 15:18	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

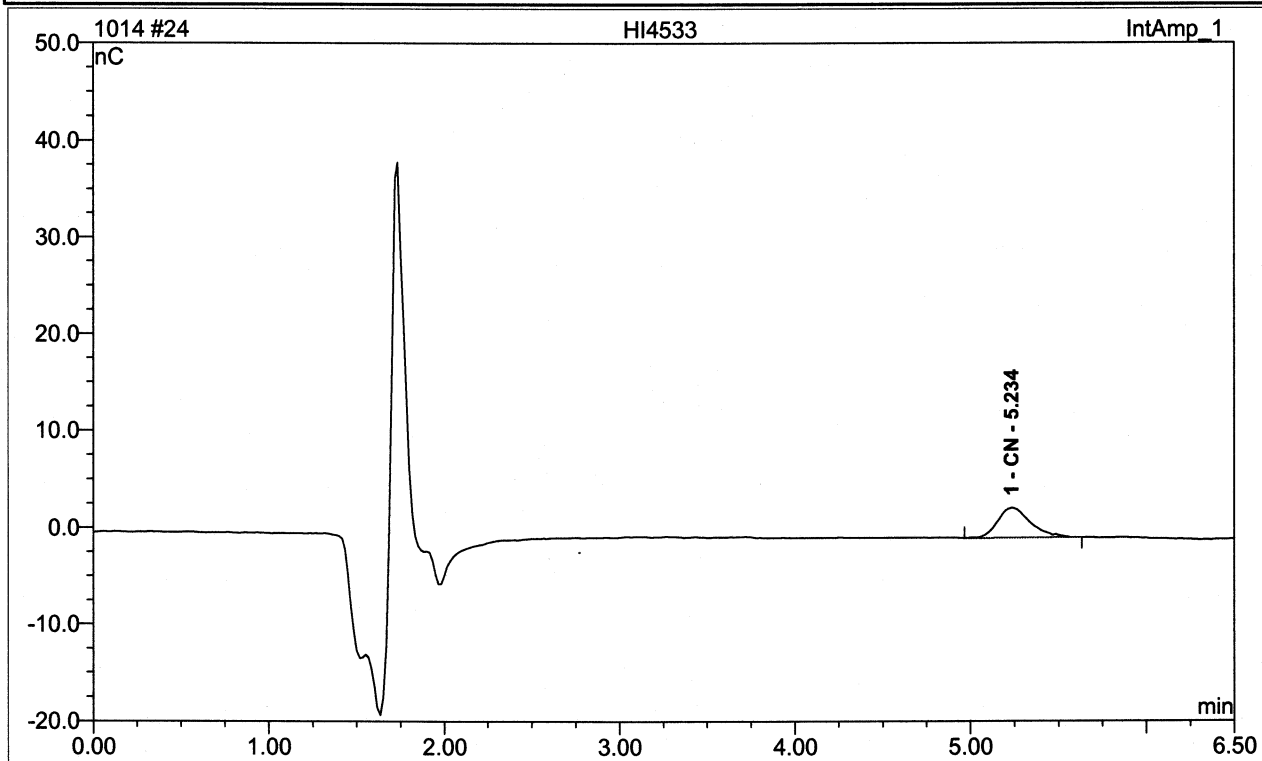


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.20	CN	162.5288	30.1274	100.00	1.0063	BMB*
Total:			162.5288	30.1274	100.00	1.0063	

24 HI4533

*

Sample Name:	HI4533	Injection Volume:	50.0
Vial Number:	24	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 15:30	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

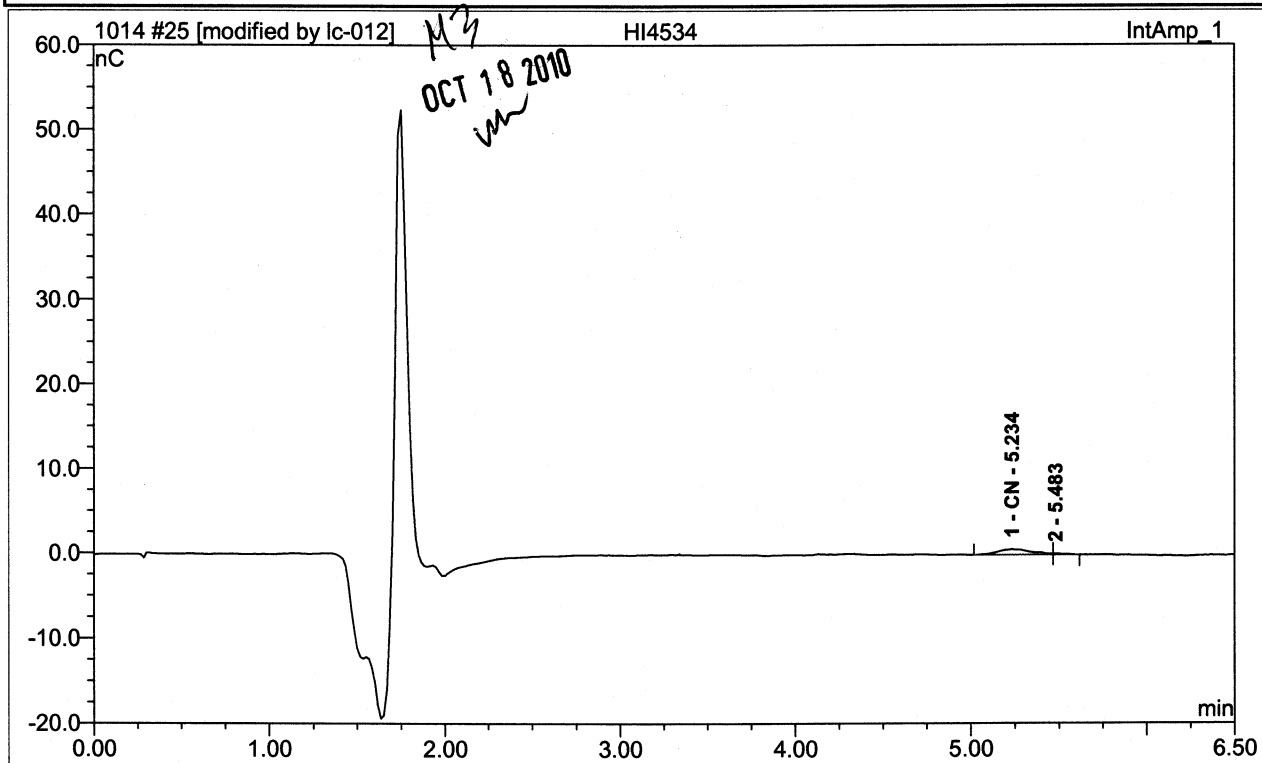


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.23	CN	3.1149	0.6745	100.00	0.0457	BMB
Total:			3.1149	0.6745	100.00	0.0457	

25 HI4534

*

Sample Name:	HI4534	Injection Volume:	50.0
Vial Number:	25	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 15:43	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

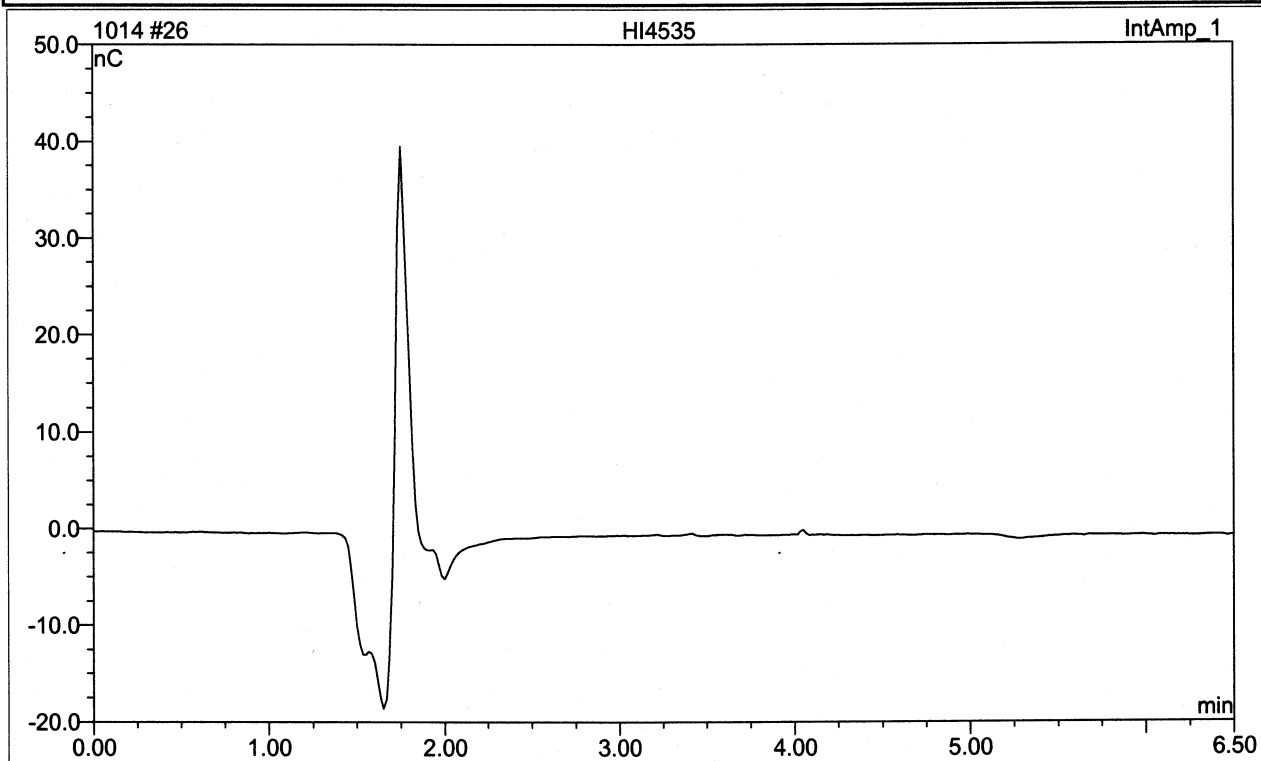


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.23	CN	0.6633	0.1504	92.54	0.0286	BM *
Total:			0.6633	0.1504	92.54	0.0286	

26 HI4535

*

Sample Name:	HI4535	Injection Volume:	50.0
Vial Number:	26	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 15:55	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

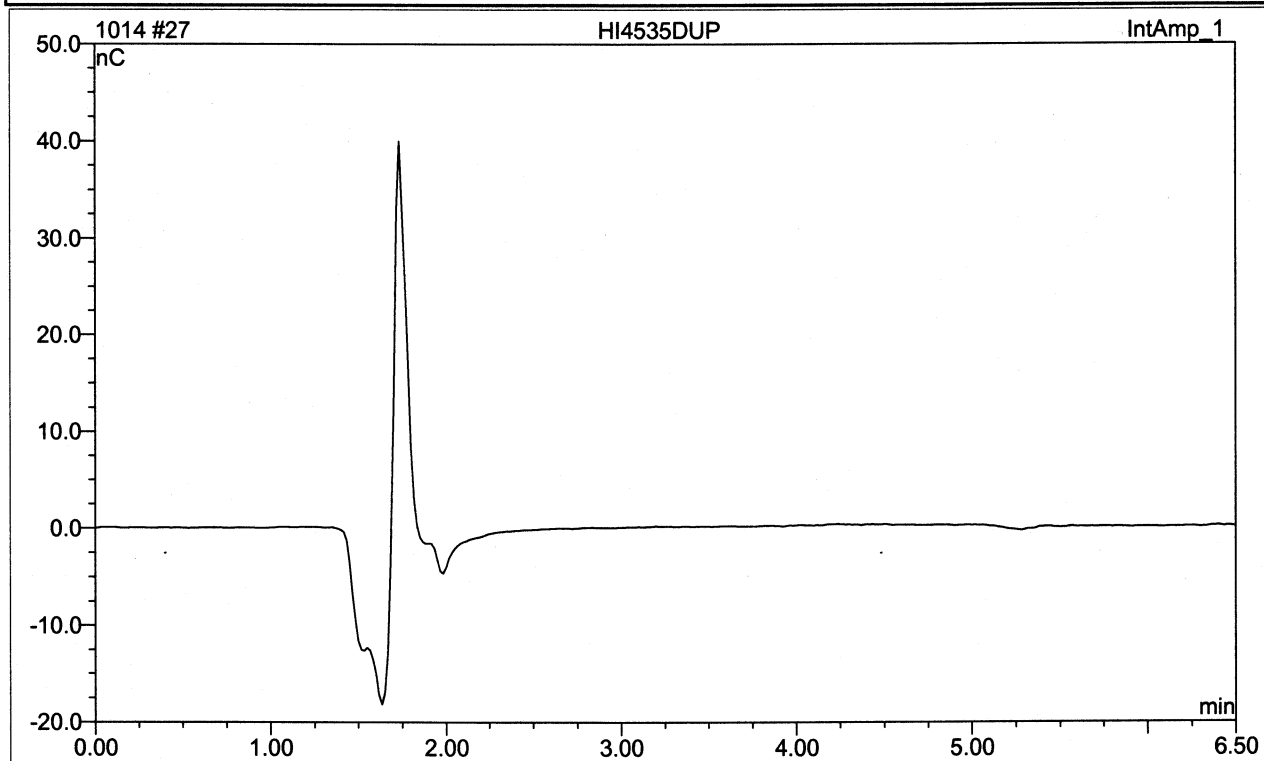


No.	Ret. Time min	Peak Name	Height nC	Area nC*min	Rel. Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

27 HI4535DUP

*

Sample Name:	HI4535DUP	Injection Volume:	50.0
Vial Number:	27	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 16:07	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

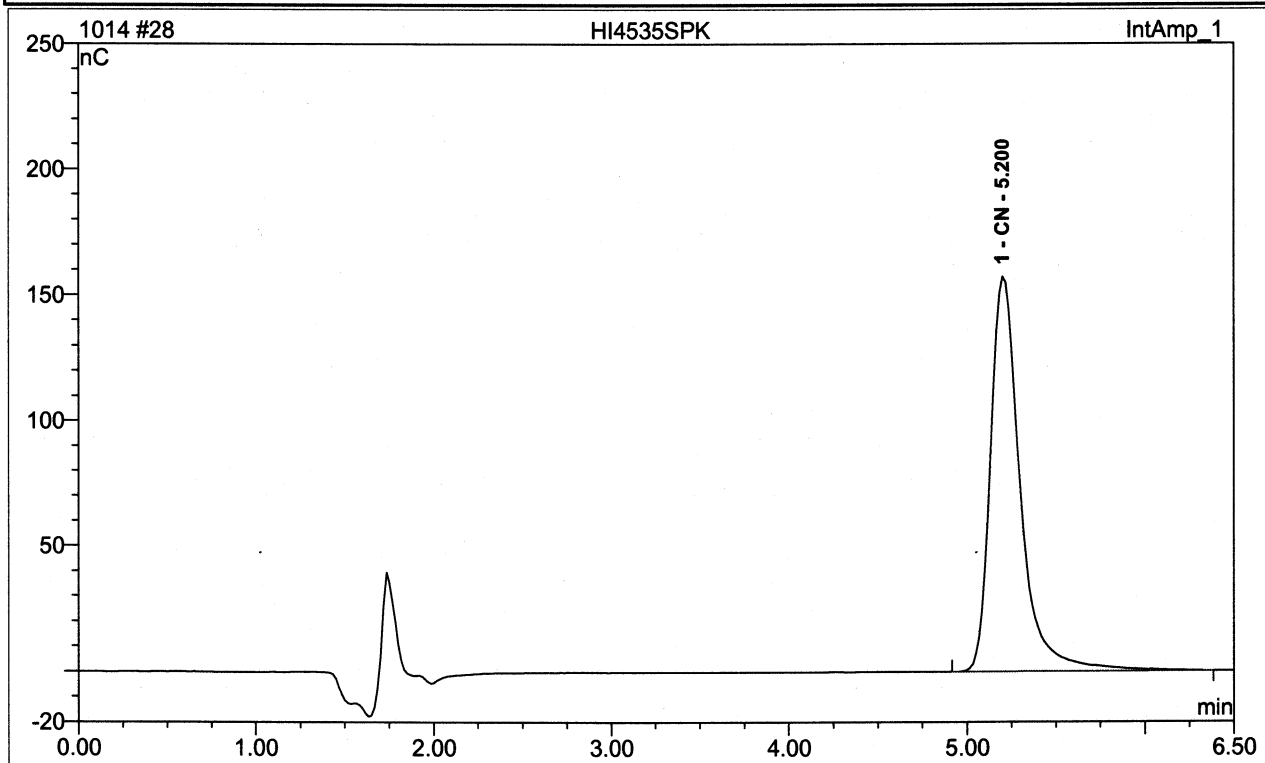


No.	Ret. Time min	Peak Name	Height nC	Area nC*min	Rel. Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

28 HI4535SPK

*

Sample Name:	HI4535SPK	Injection Volume:	50.0
Vial Number:	28	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 16:20	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

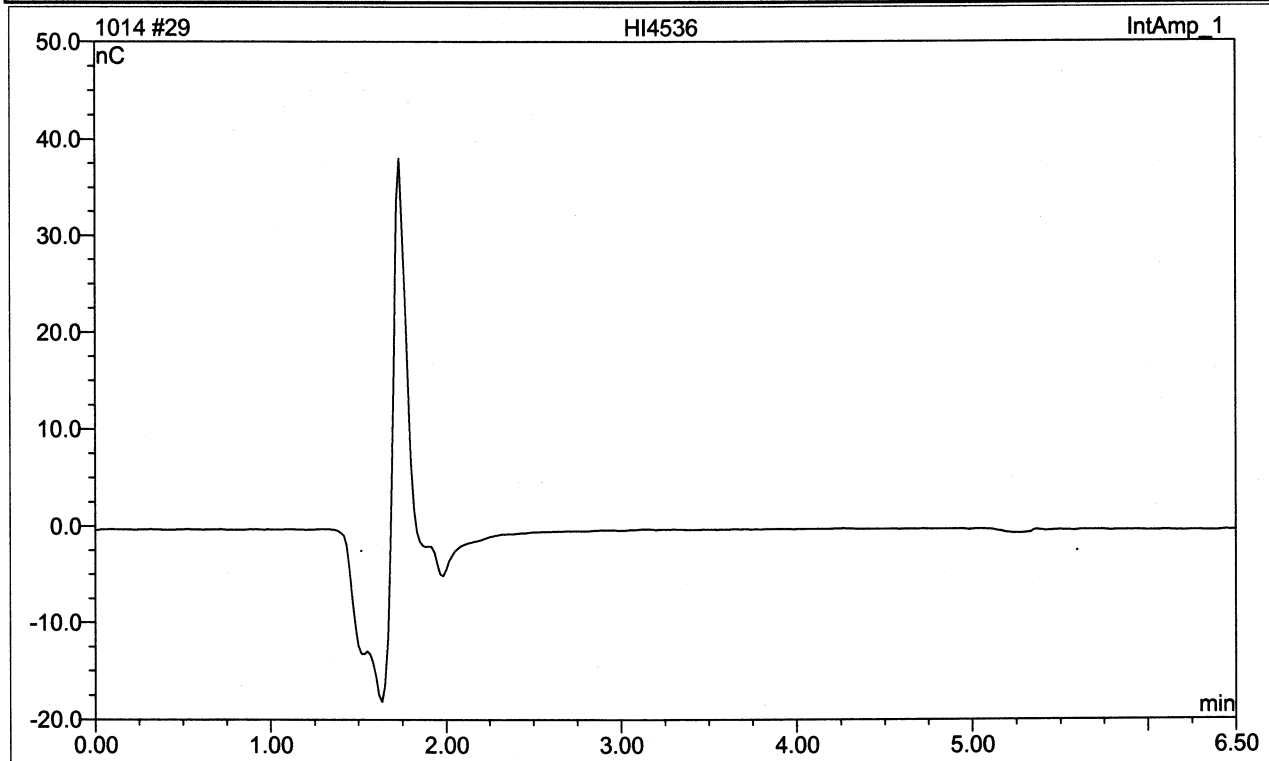


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.20	CN	157.2643	30.4419	100.00	1.0166	BMB
Total:			157.2643	30.4419	100.00	1.0166	

29 HI4536

*

Sample Name:	HI4536	Injection Volume:	50.0
Vial Number:	29	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 16:32	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

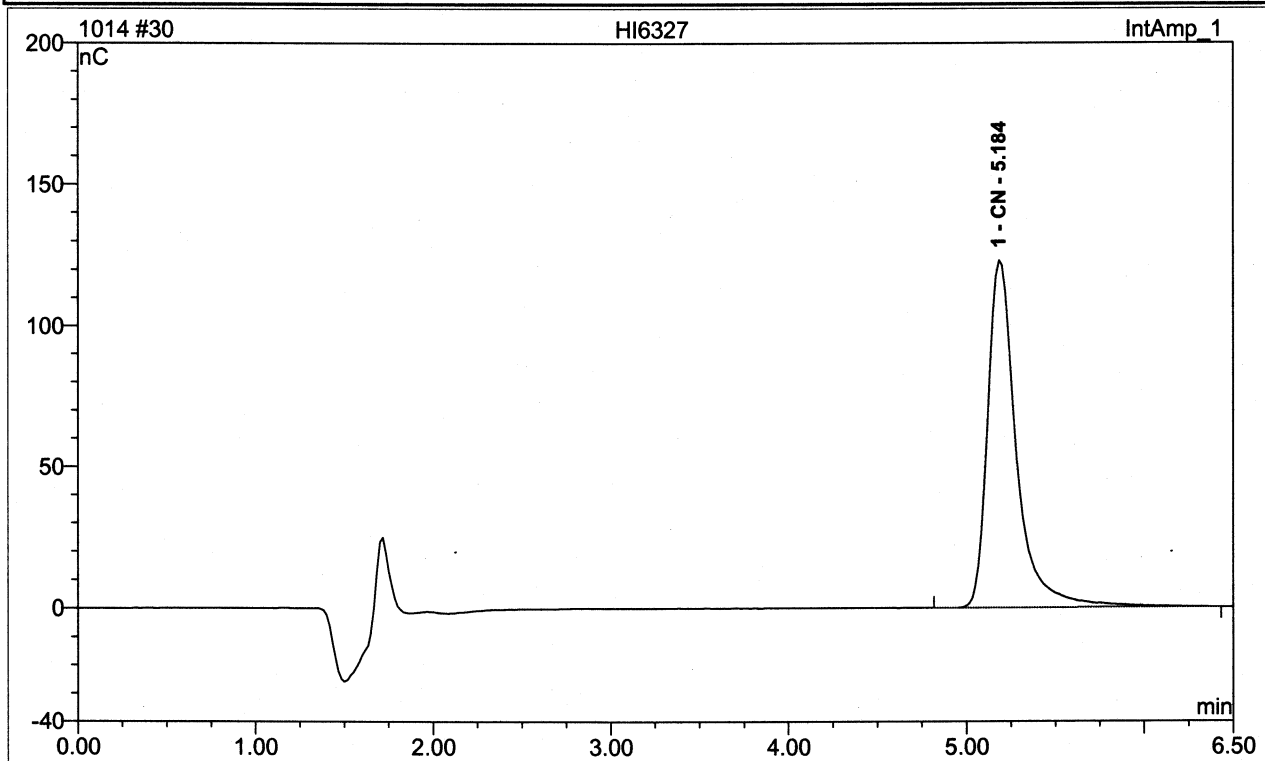


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

30 HI6327

*

Sample Name:	HI6327	Injection Volume:	50.0
Vial Number:	30	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	5000.0
Recording Time:	2010/10/14 16:44	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

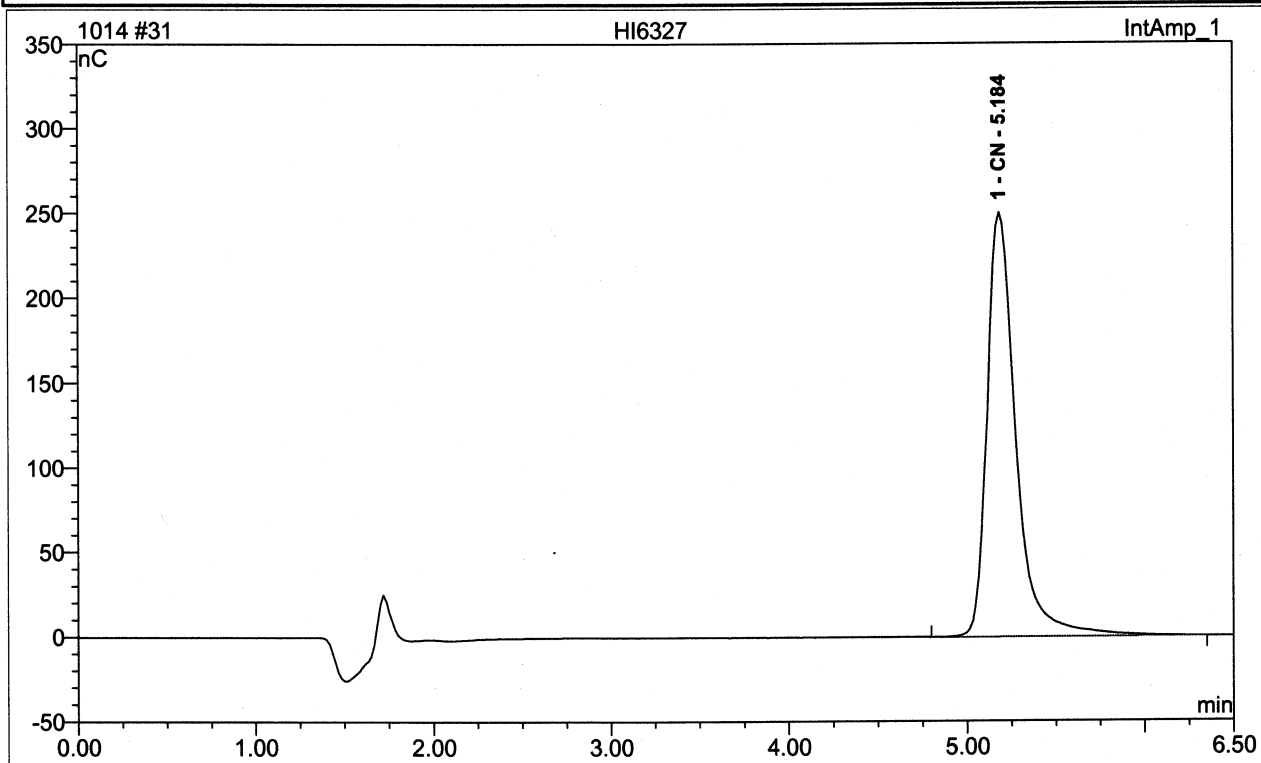


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.18	CN	123.1565	23.0571	100.00	3878.6928	BMB
Total:			123.1565	23.0571	100.00	3878.6928	

31 HI6327

*

Sample Name:	HI6327	Injection Volume:	50.0
Vial Number:	31	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCM2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2500.0
Recording Time:	2010/10/14 16:56	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



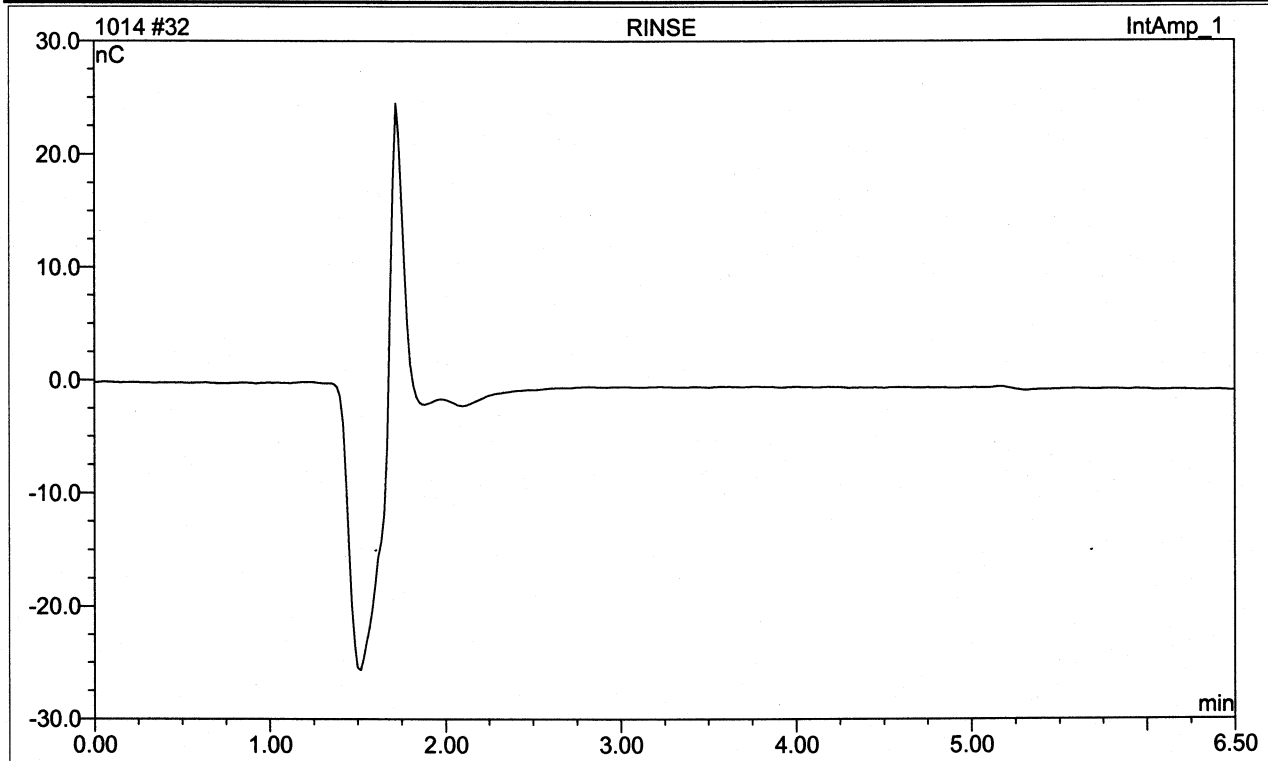
No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.18	CN	250.4141	46.8915	100.00	3882.7850	BMB
Total:			250.4141	46.8915	100.00	3882.7850	

Data not use

32 RINSE

*

Sample Name:	RINSE	Injection Volume:	50.0
Vial Number:	32	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 17:09	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

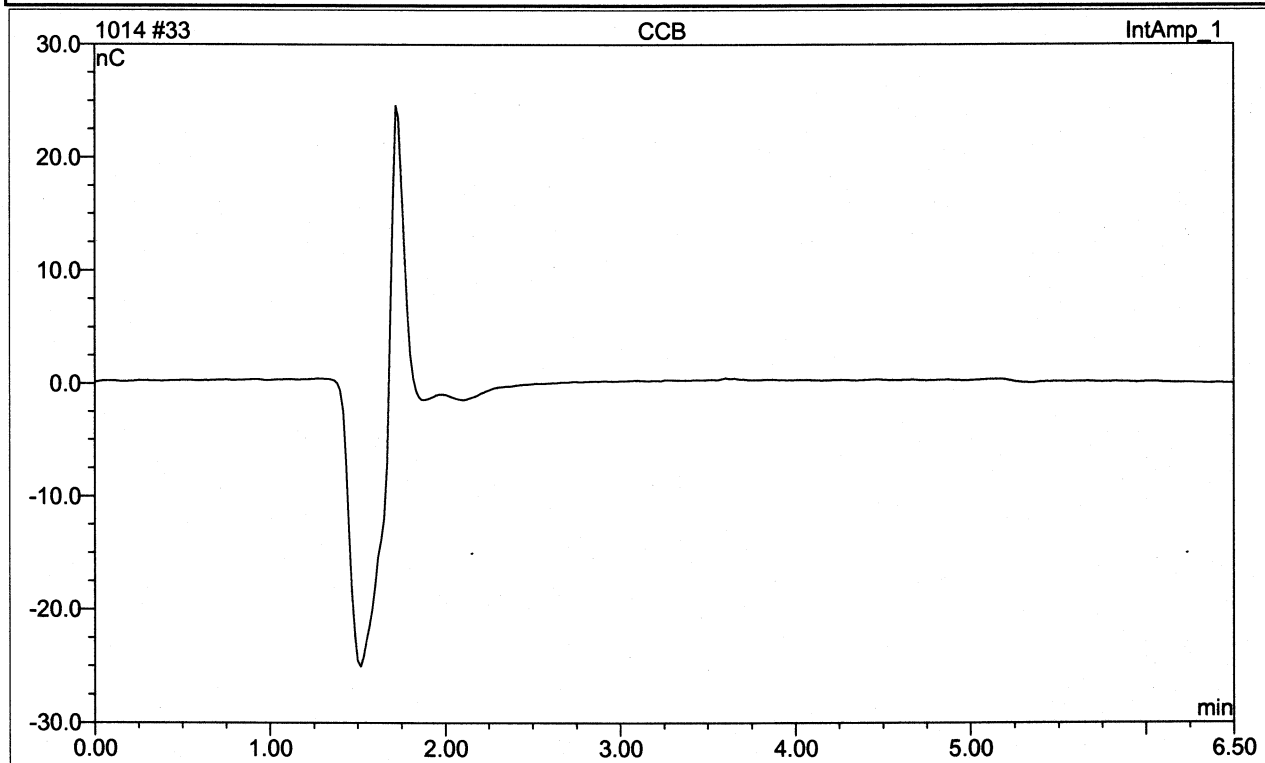


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

33 CCB

*

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	33	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 17:21	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

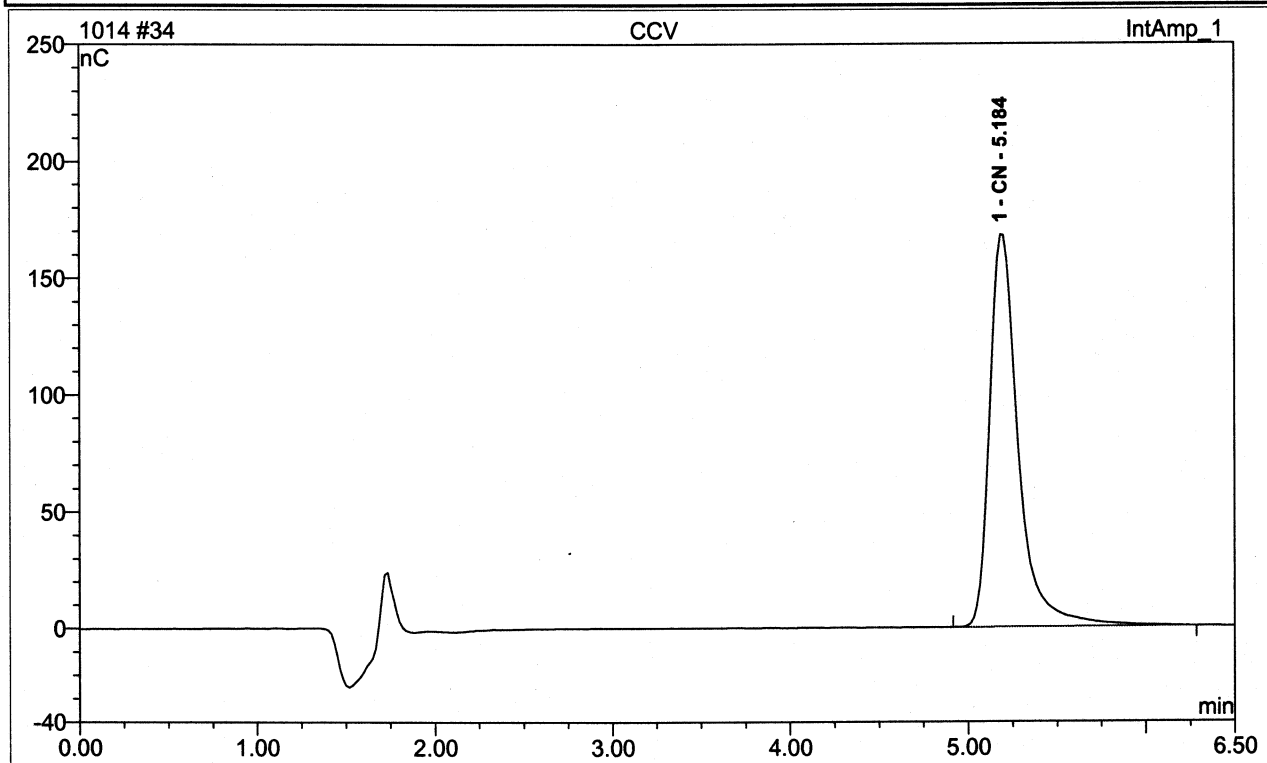


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

34 CCV

*

Sample Name:	CCV	Injection Volume:	50.0
Vial Number:	34	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/14 17:33	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.18	CN	167.8725	31.3399	100.00	1.0459	BMB
Total:			167.8725	31.3399	100.00	1.0459	

Sequence: 1015
Operator: lc-012

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Title:
Datasource: D2G8FF21_local
Location: HCN\2010
Timebase: DX600
#Samples: 53

Created: 2010/10/15 12:18:17 PM by lc-012
Last Update: 2010/10/16 3:32:02 PM by lc-012

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	MBLANK	Unknown	3	50.0	HCN2010	CN2010	Finished	2010/10/15 1:00:50 PM	1.0000
2	CALIB STD1	Standard	4	50.0	HCN2010	CN2010	Finished	2010/10/15 1:13:08 PM	1.0000
3	CALIB STD2	Standard	5	50.0	HCN2010	CN2010	Finished	2010/10/15 1:25:25 PM	1.0000
4	CALIB STD3	Standard	6	50.0	HCN2010	CN2010	Finished	2010/10/15 1:37:42 PM	1.0000
5	CALIB STD4	Standard	7	50.0	HCN2010	CN2010	Finished	2010/10/15 1:50:00 PM	1.0000
6	CALIB STD5	Standard	8	50.0	HCN2010	CN2010	Finished	2010/10/15 2:02:17 PM	1.0000
7	ICB	Unknown	9	50.0	HCN2010	CN2010	Finished	2010/10/15 2:14:35 PM	1.0000
8	ICV	Unknown	10	50.0	HCN2010	CN2010	Finished	2010/10/15 3:14:30 PM	1.0000
9	QCSPEX-CN	Unknown	11	50.0	HCN2010	CN2010	Finished	2010/10/15 3:26:48 PM	1.0000
10	MBLANK	Unknown	12	50.0	HCN2010	CN2010	Finished	2010/10/15 3:39:04 PM	1.0000
11	MBSPIKE	Unknown	13	50.0	HCN2010	CN2010	Finished	2010/10/15 3:51:22 PM	1.0000
12	MBSPIKE	Unknown	13	50.0	HCN2010	CN2010	Finished	2010/10/15 4:06:47 PM	1.0000
13	HI4516	Unknown	14	50.0	HCN2010	CN2010	Finished	2010/10/15 4:19:03 PM	1.0000
14	HI4517	Unknown	15	50.0	HCN2010	CN2010	Finished	2010/10/15 4:31:20 PM	1.0000
15	HI4518	Unknown	16	50.0	HCN2010	CN2010	Finished	2010/10/15 4:43:36 PM	1.0000
16	HI4518DUP	Unknown	17	50.0	HCN2010	CN2010	Finished	2010/10/15 4:55:54 PM	1.0000
17	HI4518SPK	Unknown	18	50.0	HCN2010	CN2010	Finished	2010/10/15 5:08:11 PM	1.0000
18	HI4519	Unknown	19	50.0	HCN2010	CN2010	Finished	2010/10/15 5:33:26 PM	1.0000
19	HI4520	Unknown	20	50.0	HCN2010	CN2010	Finished	2010/10/15 5:45:44 PM	1.0000
20	HI4521	Unknown	21	50.0	HCN2010	CN2010	Finished	2010/10/15 5:58:02 PM	1.0000
21	HI4522	Unknown	22	50.0	HCN2010	CN2010	Finished	2010/10/15 6:10:19 PM	1.0000
22	HI4523	Unknown	23	50.0	HCN2010	CN2010	Finished	2010/10/15 6:22:36 PM	1.0000
23	HI4524	Unknown	24	50.0	HCN2010	CN2010	Finished	2010/10/15 6:34:54 PM	1.0000
24	HI4525	Unknown	25	50.0	HCN2010	CN2010	Finished	2010/10/15 6:47:10 PM	1.0000
25	HI4520	Unknown	26	50.0	HCN2010	CN2010	Finished	2010/10/15 6:59:28 PM	1.0000
26	HI4521	Unknown	27	50.0	HCN2010	CN2010	Finished	2010/10/15 7:11:45 PM	1.0000
27	CCB	Unknown	28	50.0	HCN2010	CN2010	Finished	2010/10/15 7:24:03 PM	1.0000
28	CCV	Unknown	29	50.0	HCN2010	CN2010	Finished	2010/10/15 7:36:20 PM	1.0000
29	CCB	Unknown	31	50.0	HCN2010	CN2010	Finished	2010/10/16 11:40:31 AM	1.0000
30	CCV	Unknown	32	50.0	HCN2010	CN2010	Finished	2010/10/16 11:52:49 AM	1.0000
31	HI4526	Unknown	33	50.0	HCN2010	CN2010	Finished	2010/10/16 12:05:07 PM	1.0000
32	HI4527	Unknown	34	50.0	HCN2010	CN2010	Finished	2010/10/16 12:17:24 PM	1.0000
33	HI4528	Unknown	35	50.0	HCN2010	CN2010	Finished	2010/10/16 12:29:42 PM	1.0000
34	HI4529	Unknown	36	50.0	HCN2010	CN2010	Finished	2010/10/16 12:41:59 PM	1.0000
35	HI4530	Unknown	37	50.0	HCN2010	CN2010	Finished	2010/10/16 12:54:16 PM	1.0000
36	HI4531	Unknown	38	50.0	HCN2010	CN2010	Finished	2010/10/16 1:06:34 PM	1.0000
37	HI4532	Unknown	39	50.0	HCN2010	CN2010	Finished	2010/10/16 1:18:51 PM	1.0000
38	HI4512	Unknown	40	50.0	HCN2010	CN2010	Finished	2010/10/16 1:31:08 PM	1.0000
39	HI4514	Unknown	41	50.0	HCN2010	CN2010	Finished	2010/10/16 1:43:26 PM	1.0000
40	HI4515	Unknown	42	50.0	HCN2010	CN2010	Finished	2010/10/16 1:55:44 PM	1.0000
41	CCB	Unknown	43	50.0	HCN2010	CN2010	Finished	2010/10/16 2:08:01 PM	1.0000
42	CCV	Unknown	44	50.0	HCN2010	CN2010	Finished	2010/10/16 2:20:19 PM	1.0000

Sequence: 1015
Operator: lc-012

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Title:
Datasource: D2G8FF21_local
Location: HCN\2010
Timebase: DX600
#Samples: 53

Created: 2010/10/15 12:18:17 PM by lc-012
Last Update: 2010/10/16 3:32:02 PM by lc-012

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	MBLANK	1.0000	1.0000 *	01	*	
2	CALIB STD1	1.0000	1.0000 *	01		Cal Standards prepare 2010/10/08
3	CALIB STD2	1.0000	1.0000 *	01	*	
4	CALIB STD3	1.0000	1.0000 *	01	*	
5	CALIB STD4	1.0000	1.0000 *	01	*	
6	CALIB STD5	1.0000	1.0000 *	01	*	
7	ICB	1.0000	1.0000 *	01	*	
8	ICV	1.0000	1.0000 *	01	*	
9	QCSPEX-CN	1.0000	1.0000 *	01	*	
10	MBLANK	1.0000	1.0000 *	01	*	
11	MBSPIKE	1.0000	1.0000 *	01	*	
12	MBSPIKE	1.0000	1.0000 *	01	*	
13	HI4516	1.0000	1.0000 *	01	*	
14	HI4517	1.0000	1.0000 *	01	*	
15	HI4518	2.0000	1.0000 *	01	*	
16	HI4518DUP	2.0000	1.0000 *	01	*	
17	HI4518SPK	2.0000	1.0000 *	01	*	
18	HI4519	1.0000	1.0000 *	01	*	
19	HI4520	1.0000	1.0000 *	01	*	
20	HI4521	1.0000	1.0000 *	01	*	
21	HI4522	1.0000	1.0000 *	01	*	
22	HI4523	1.0000	1.0000 *	01	*	
23	HI4524	1.0000	1.0000 *	01	*	
24	HI4525	2.0000	1.0000 *	01	*	
25	HI4520	1.0000	1.0000 *	01	*	
26	HI4521	1.0000	1.0000 *	01	*	
27	CCB	1.0000	1.0000 *	01	*	
28	CCV	1.0000	1.0000 *	01	*	
29	CCB	1.0000	1.0000 *	01	*	
30	CCV	1.0000	1.0000 *	01	*	
31	HI4526	1.0000	1.0000 *	01	*	
32	HI4527	1.0000	1.0000 *	01	*	
33	HI4528	2.0000	1.0000 *	01	*	
34	HI4529	1.0000	1.0000 *	01	*	
35	HI4530	1.0000	1.0000 *	01	*	
36	HI4531	2.0000	1.0000 *	01	*	
37	HI4532	1.0000	1.0000 *	01	*	
38	HI4512	2.0000	1.0000 *	01	*	
39	HI4514	1.0000	1.0000 *	01	*	
40	HI4515	1.0000	1.0000 *	01	*	
41	CCB	1.0000	1.0000 *	01	*	
42	CCV	1.0000	1.0000 *	01	*	

Sequence: 1015
Operator: lc-012

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Title:

Datasource: D2G8FF21_local












Location: HCN\2010

Timebase: DX600

#Samples: 53

Created: 2010/10/15 12:18:17 PM by lc-012

Last Update: 2010/10/16 3:32:02 PM by lc-012












No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
43	 MBLANK	Unknown	1	50.0	HCN2010	CN2010	Finished	2010/10/16 3:37:40 PM	1.0000
44	 MBSPIKE	Unknown	2	50.0	HCN2010	CN2010	Finished	2010/10/16 3:49:57 PM	1.0000
45	 HI4518	Unknown	3	50.0	HCN2010	CN2010	Finished	2010/10/16 4:02:13 PM	1.0000
46	 HI4518DUP	Unknown	4	50.0	HCN2010	CN2010	Finished	2010/10/16 4:14:31 PM	1.0000
47	 HI4518SPK	Unknown	5	50.0	HCN2010	CN2010	Finished	2010/10/16 4:26:48 PM	1.0000
48	 HI4518	Unknown	6	50.0	HCN2010	CN2010	Finished	2010/10/16 4:39:05 PM	1.0000
49	 HI4518DUP	Unknown	7	50.0	HCN2010	CN2010	Finished	2010/10/16 4:51:22 PM	1.0000
50	 HI4518SPK	Unknown	8	50.0	HCN2010	CN2010	Finished	2010/10/16 5:03:40 PM	1.0000
51	 CCB	Unknown	9	50.0	HCN2010	CN2010	Finished	2010/10/16 5:15:58 PM	1.0000
52	 CCV	Unknown	10	50.0	HCN2010	CN2010	Finished	2010/10/16 5:28:15 PM	1.0000
53	 SHUT	Unknown	11	50.0	shut	CN2010	Interrupted	2010/10/16 5:34:54 PM	1.0000

Sequence: 1015
Operator: lc-012

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Title:
Datasource: D2G8FF21_local
Location: HCN\2010
Timebase: DX600
#Samples: 53

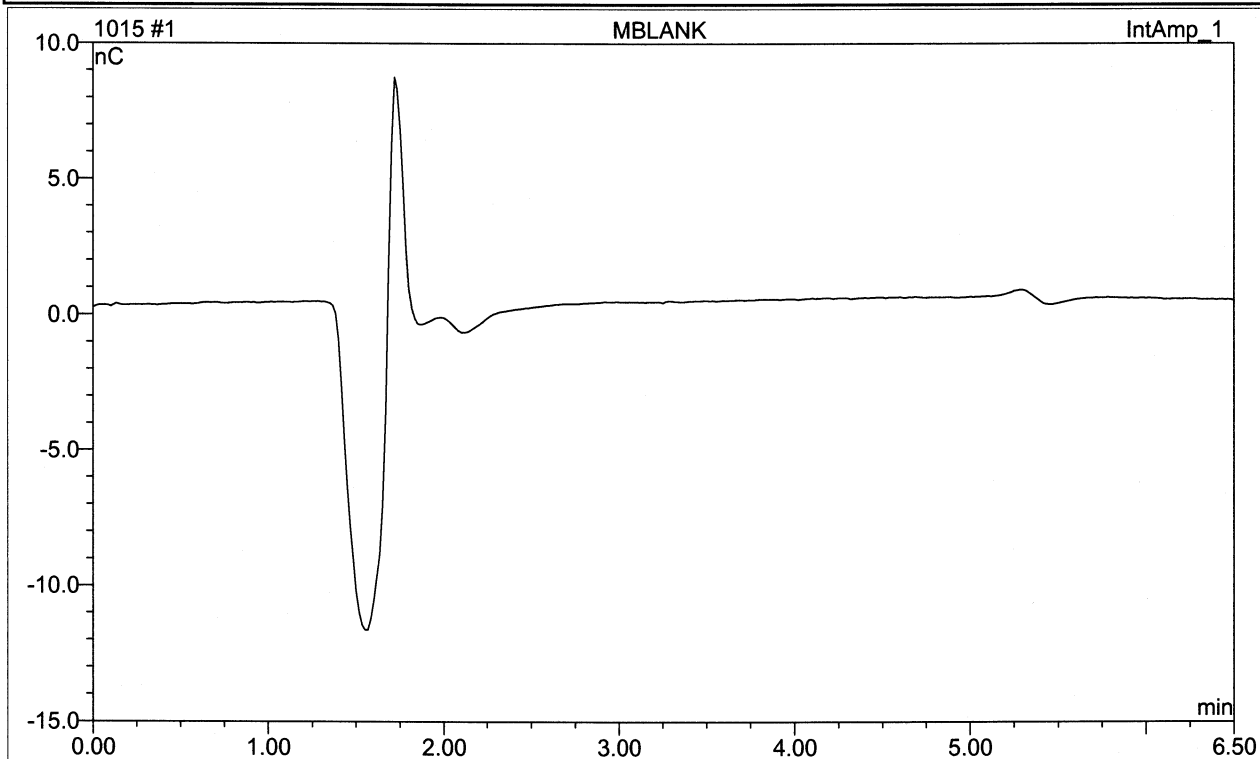
Created: 2010/10/15 12:18:17 PM by lc-012
Last Update: 2010/10/16 3:32:02 PM by lc-012

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
43	 MBLANK	1.0000	1.0000 *		01	*
44	 MBSPIKE	1.0000	1.0000 *		01	*
45	 HI4518	2.0000	1.0000 *		01	*
46	 HI4518DUP	2.0000	1.0000 *		01	*
47	 HI4518SPK	2.0000	1.0000 *		01	*
48	 HI4518	1.0000	1.0000 *		01	*
49	 HI4518DUP	1.0000	1.0000 *		01	*
50	 HI4518SPK	1.0000	1.0000 *		01	*
51	 CCB	1.0000	1.0000 *		01	*
52	 CCV	1.0000	1.0000 *		01	*
53	 SHUT	1.0000	1.0000 *		01	*

1 MBLANK

*

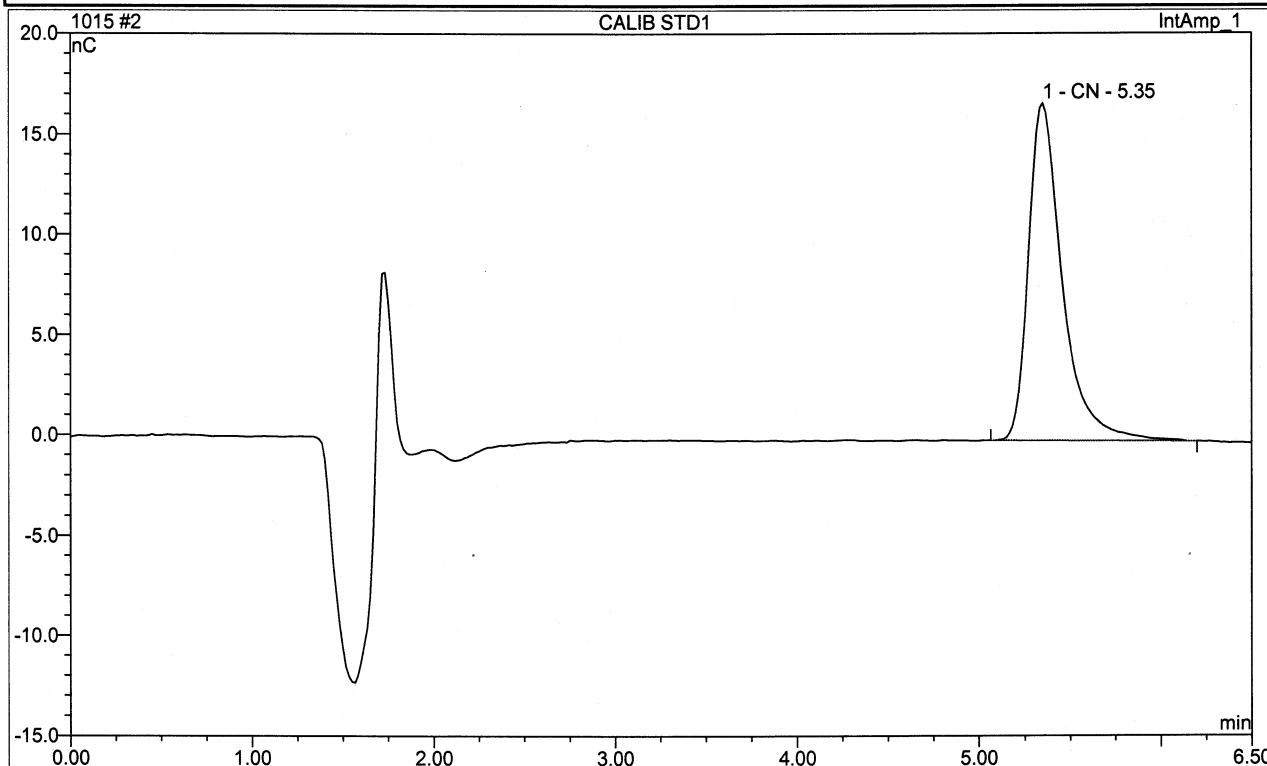
Sample Name:	MBLANK	Injection Volume:	50.0
Vial Number:	3	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 13:00	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

2 CALIB STD1**Cal standards prepare 2010/10/15**

Sample Name:	CALIB STD1	Injection Volume:	50.0
Vial Number:	4	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	DX-600
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 13:13	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

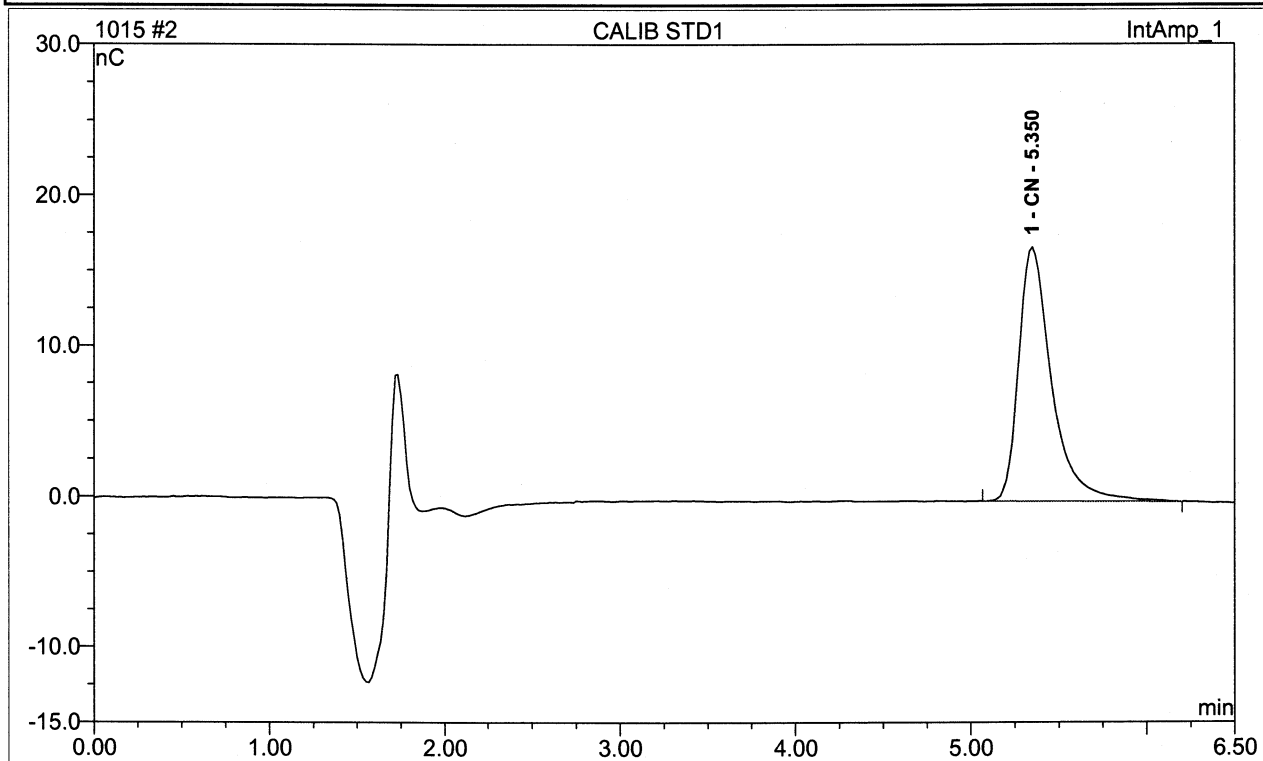


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.35	CN	16.847	3.647	100.00	0.0821	BMB
Total:			16.8472	3.6469	100.00	0.0821	

- Re-print for cal prep date

2 CALIB STD1**Cal Standards prepare 2010/10/08**

Sample Name:	CALIB STD1	Injection Volume:	50.0
Vial Number:	4	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 13:13	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

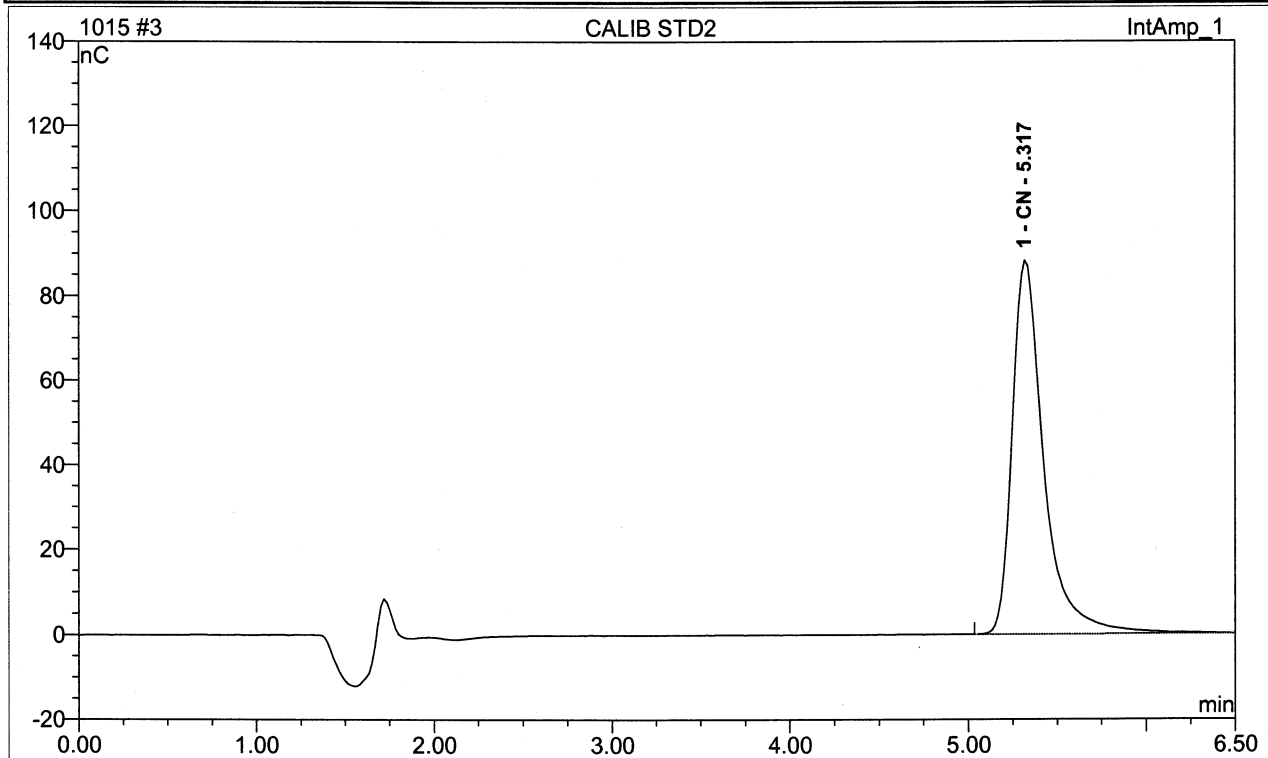


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.35	CN	16.8472	3.6469	100.00	0.0821	BMB
Total:			16.8472	3.6469	100.00	0.0821	

3 CALIB STD2

*

Sample Name:	CALIB STD2	Injection Volume:	50.0
Vial Number:	5	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 13:25	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

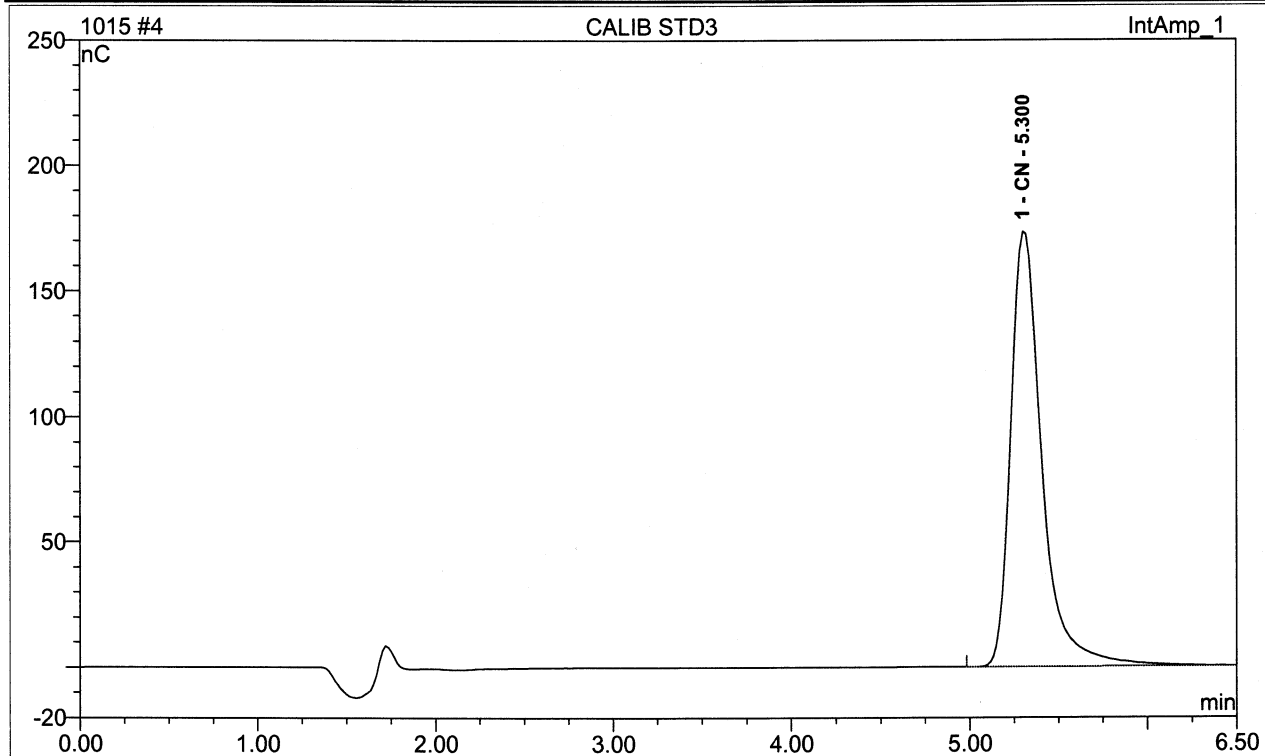


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	88.1923	18.0388	100.00	0.5066	BMB
Total:			88.1923	18.0388	100.00	0.5066	

4 CALIB STD3

*

Sample Name:	CALIB STD3	Injection Volume:	50.0
Vial Number:	6	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 13:37	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

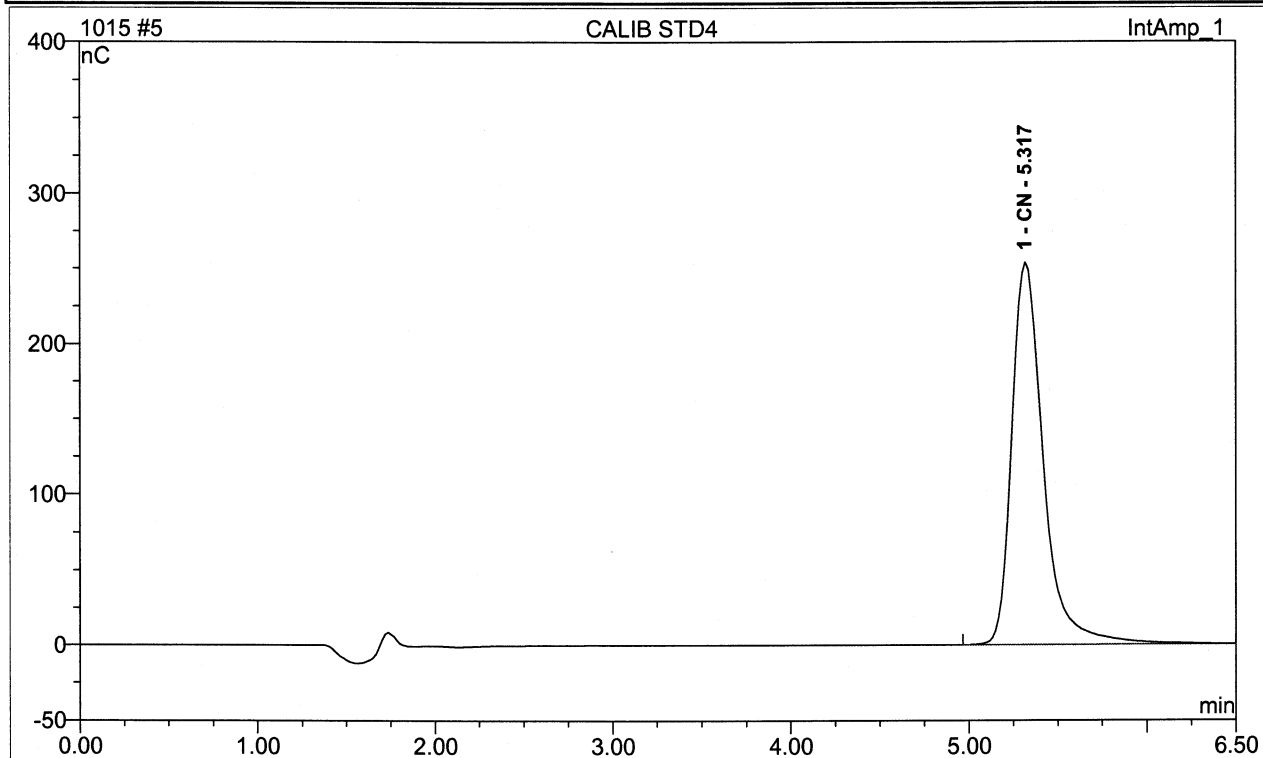


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.30	CN	173.3583	35.3405	100.00	1.0170	BMB
Total:			173.3583	35.3405	100.00	1.0170	

5 CALIB STD4

*

Sample Name:	CALIB STD4	Injection Volume:	50.0
Vial Number:	7	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 13:50	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

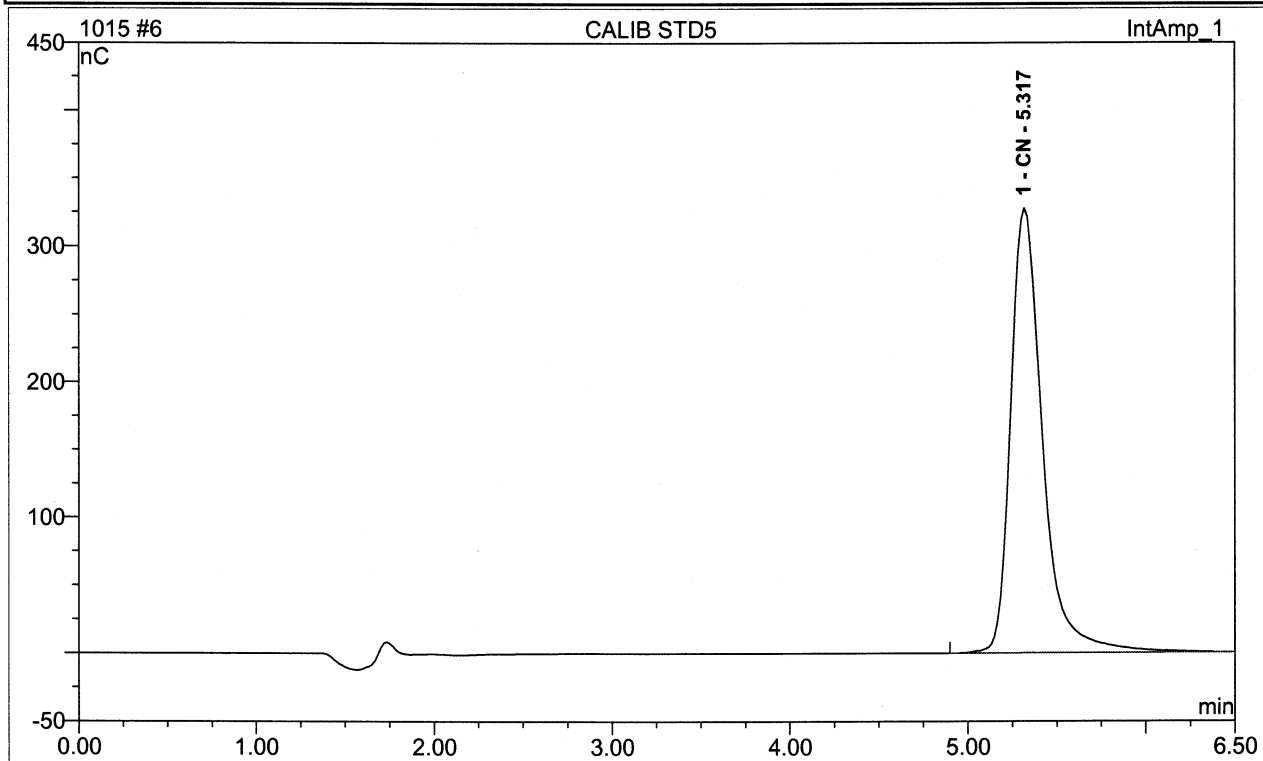


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	253.9055	52.1892	100.00	1.5140	BMB
Total:			253.9055	52.1892	100.00	1.5140	

6 CALIB STD5

*

Sample Name:	CALIB STD5	Injection Volume:	50.0
Vial Number:	8	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 14:02	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

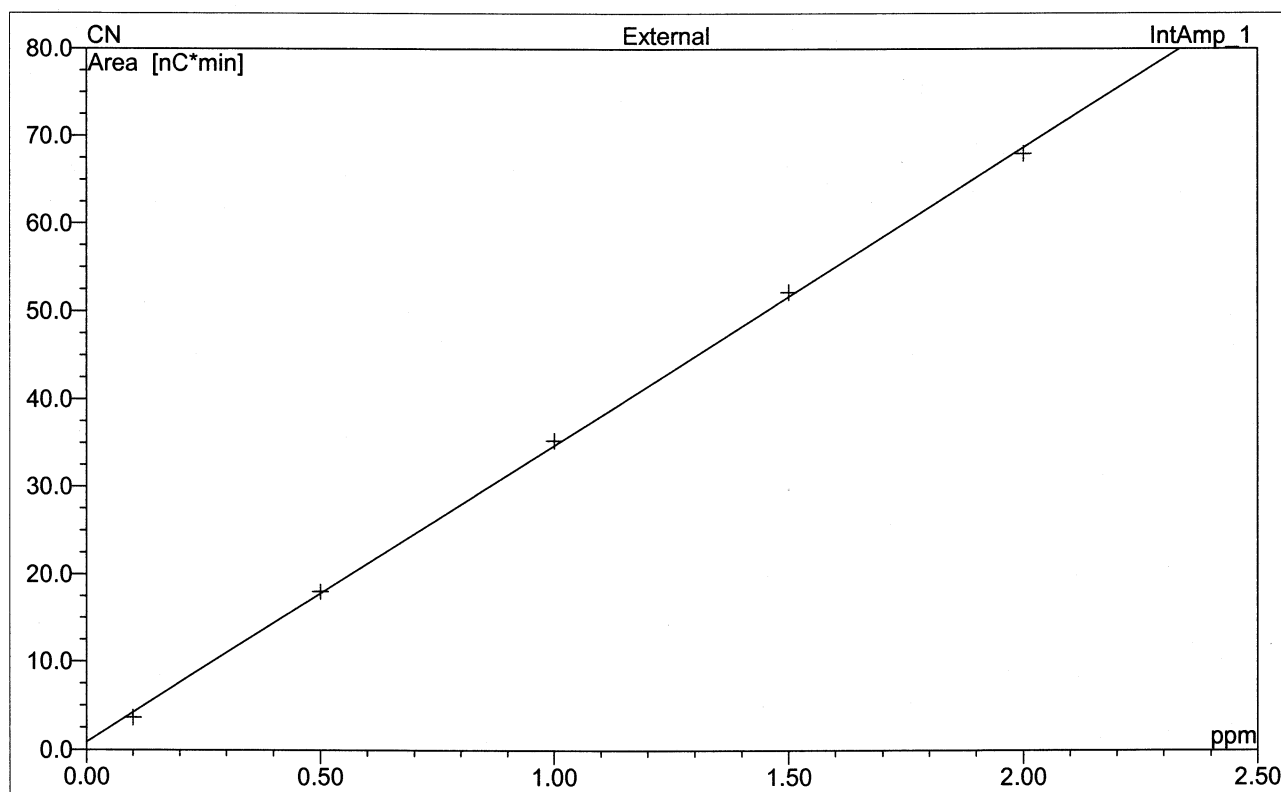


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	328.0756	67.9909	100.00	1.9802	BMB
Total:			328.0756	67.9909	100.00	1.9802	

6 CALIB STD5

*

Sample Name:	CALIB STD5	Injection Volume:	50.0
Vial Number:	8	Channel:	IntAmp_1
Sample Type:	standard	DIONEX UNIT	n.a.
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 14:02	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

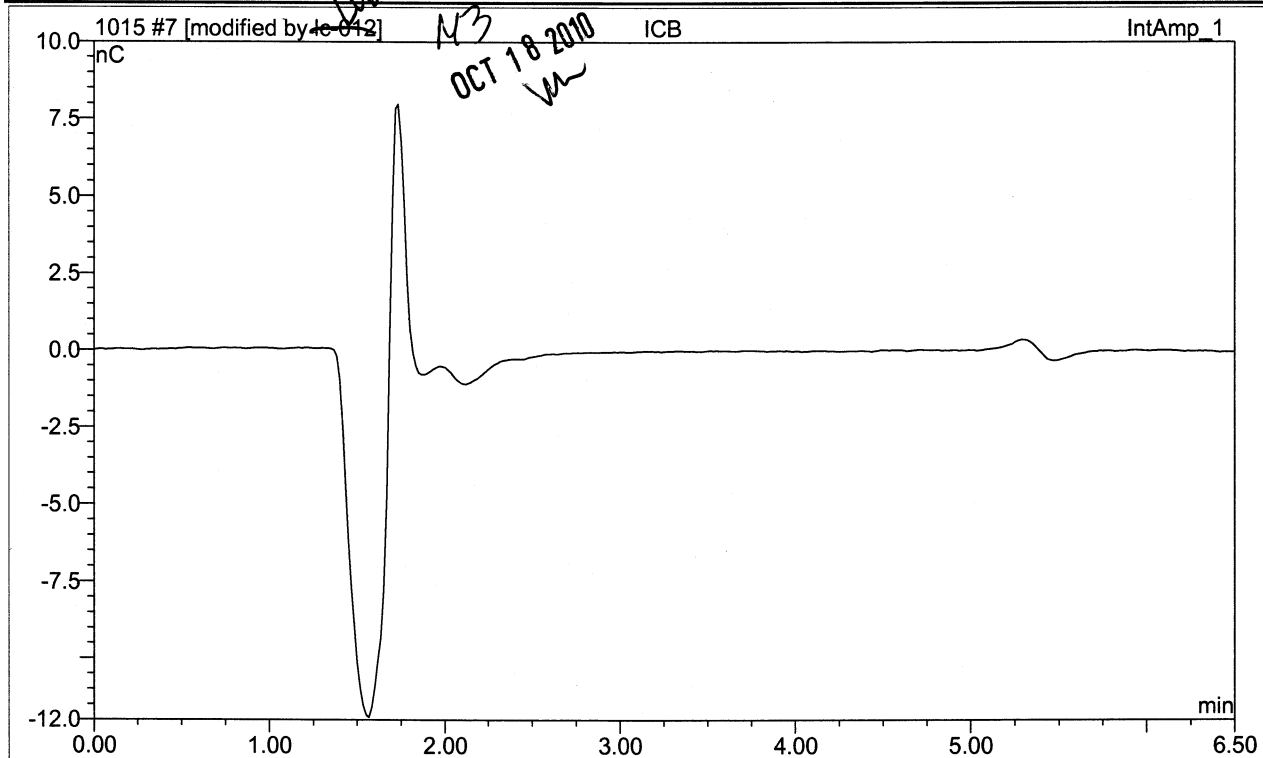


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.32	CN	LOff	5	99.9730	0.8639	33.8994	0.0000
Average:					99.9730	0.8639	33.8994	0.0000

7 ICB

*

Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	9	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 14:14	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

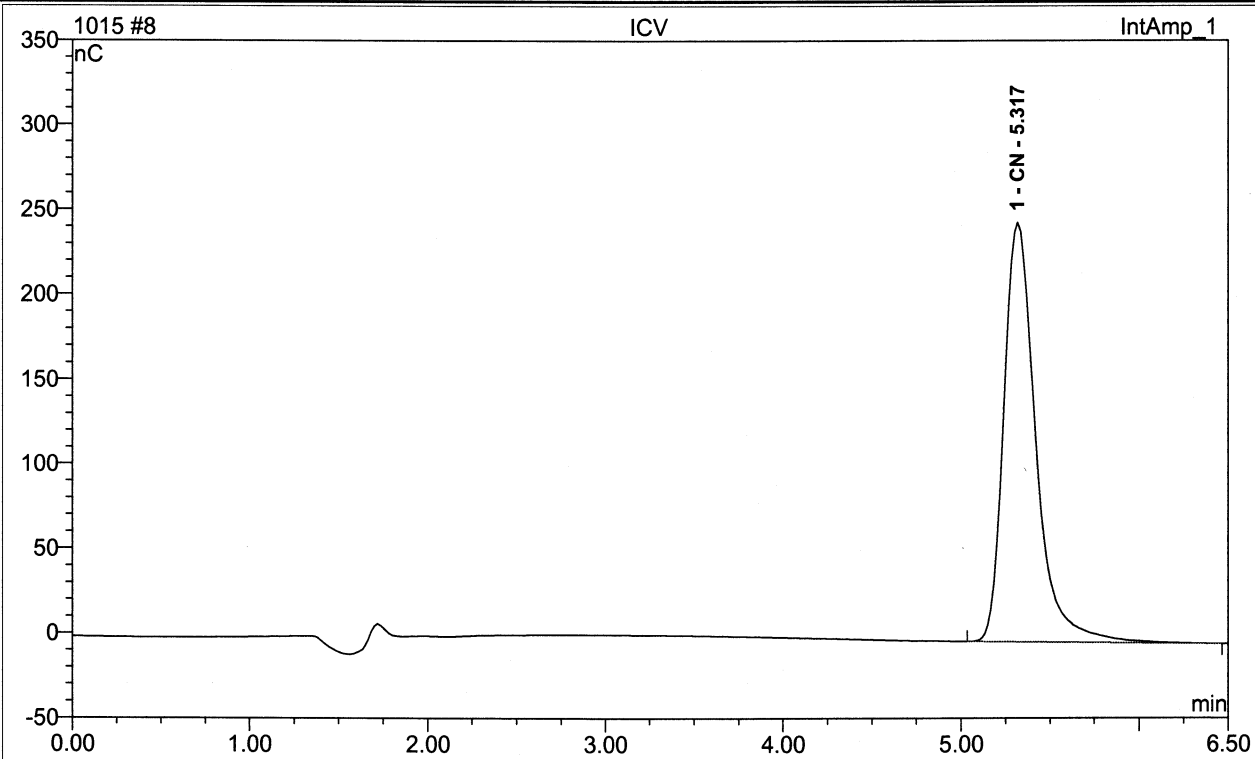


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

8 ICV

*

Sample Name:	ICV	Injection Volume:	50.0
Vial Number:	10	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 15:14	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

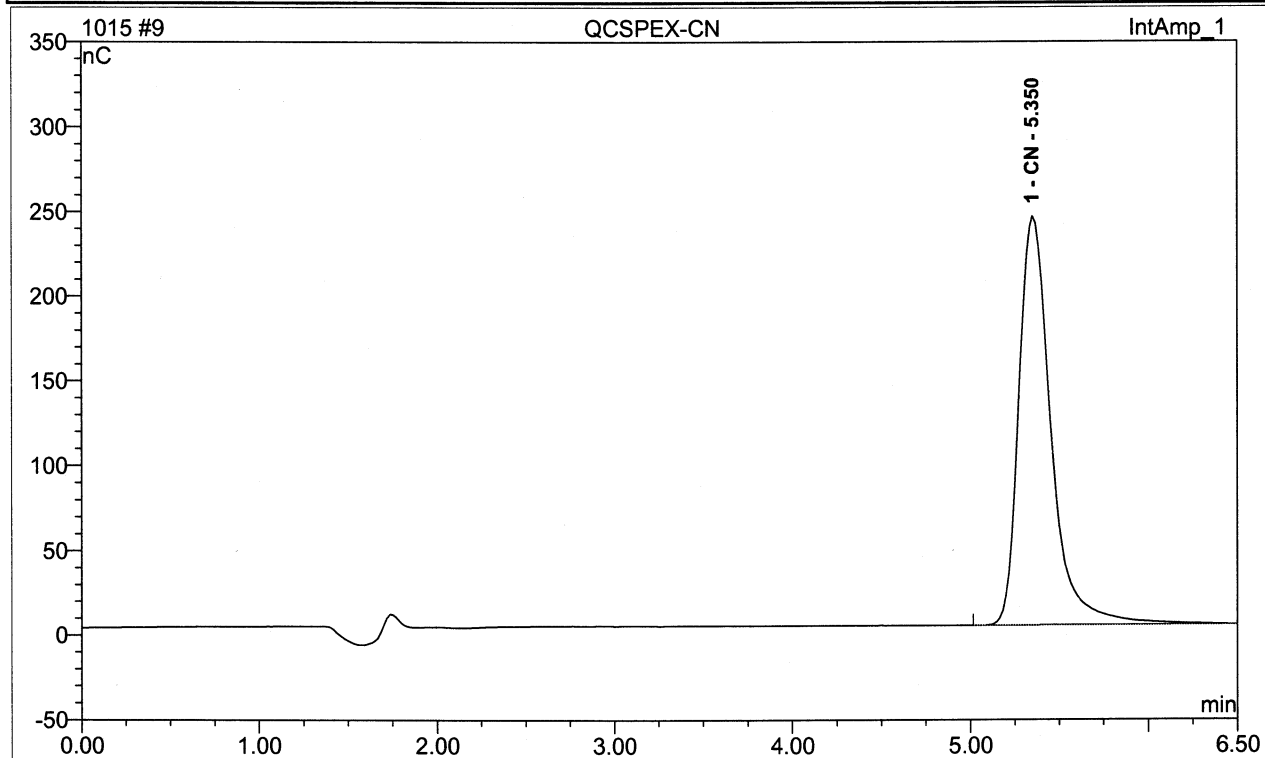


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	247.7115	51.7168	100.00	1.5001	BMB
Total:			247.7115	51.7168	100.00	1.5001	

9 QCSPEX-CN

*

Sample Name:	QCSPEX-CN	Injection Volume:	50.0
Vial Number:	11	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 15:26	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

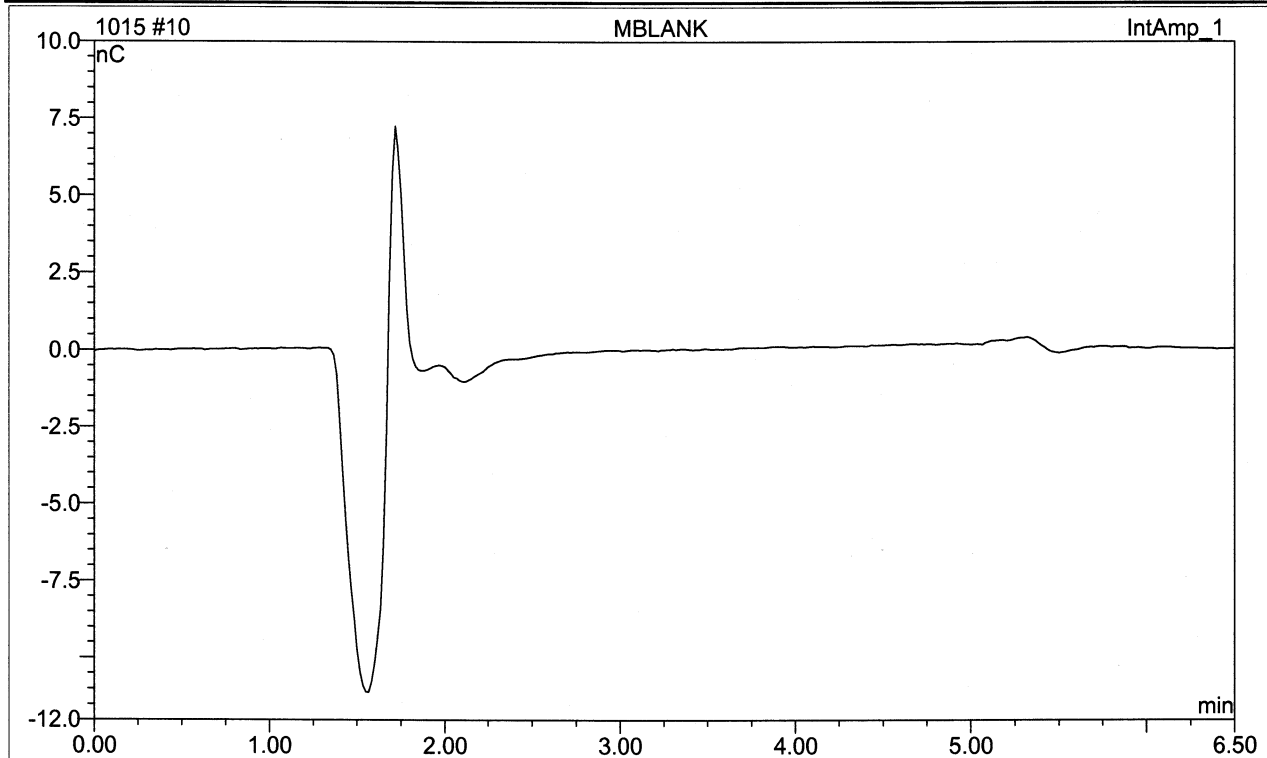


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.35	CN	241.7499	50.6555	100.00	1.4688	BMB
Total:			241.7499	50.6555	100.00	1.4688	

10 MBLANK

*

Sample Name:	MBLANK	Injection Volume:	50.0
Vial Number:	12	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 15:39	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

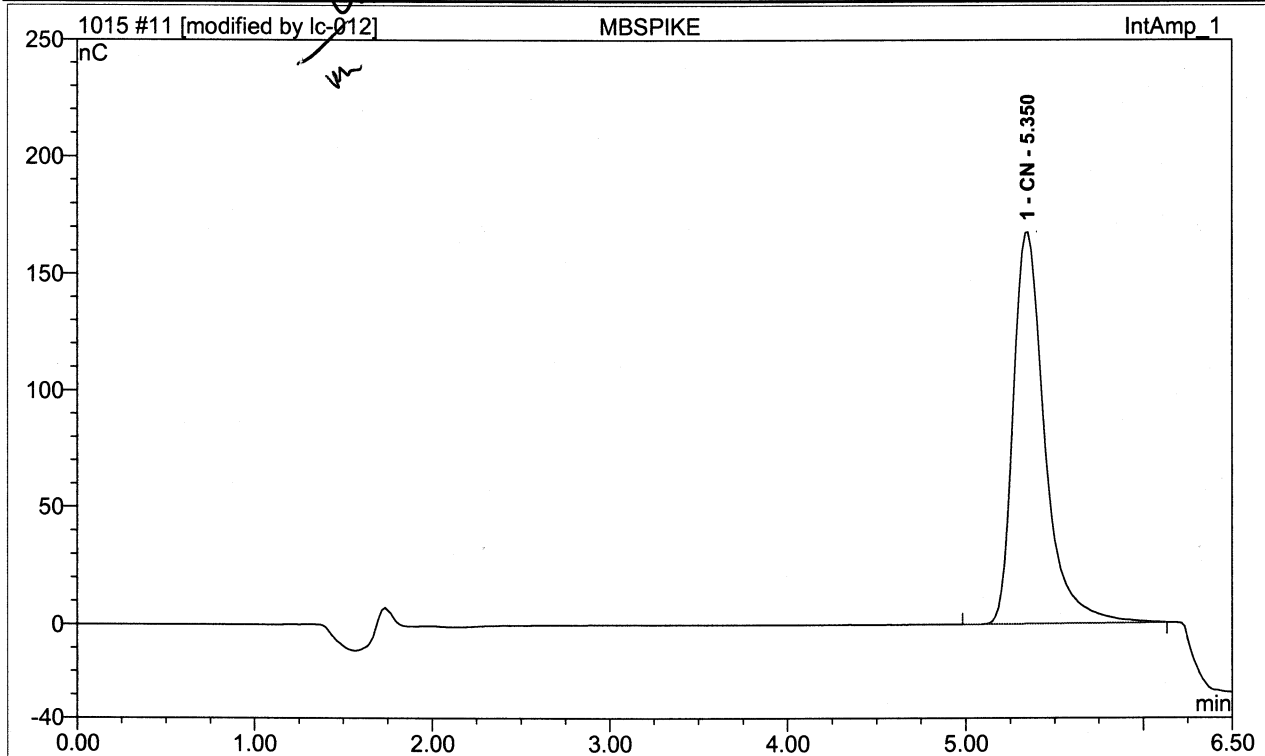


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

11 MBSPIKE

*

Sample Name:	MBSPIKE	Injection Volume:	50.0
Vial Number:	13	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 15:51	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



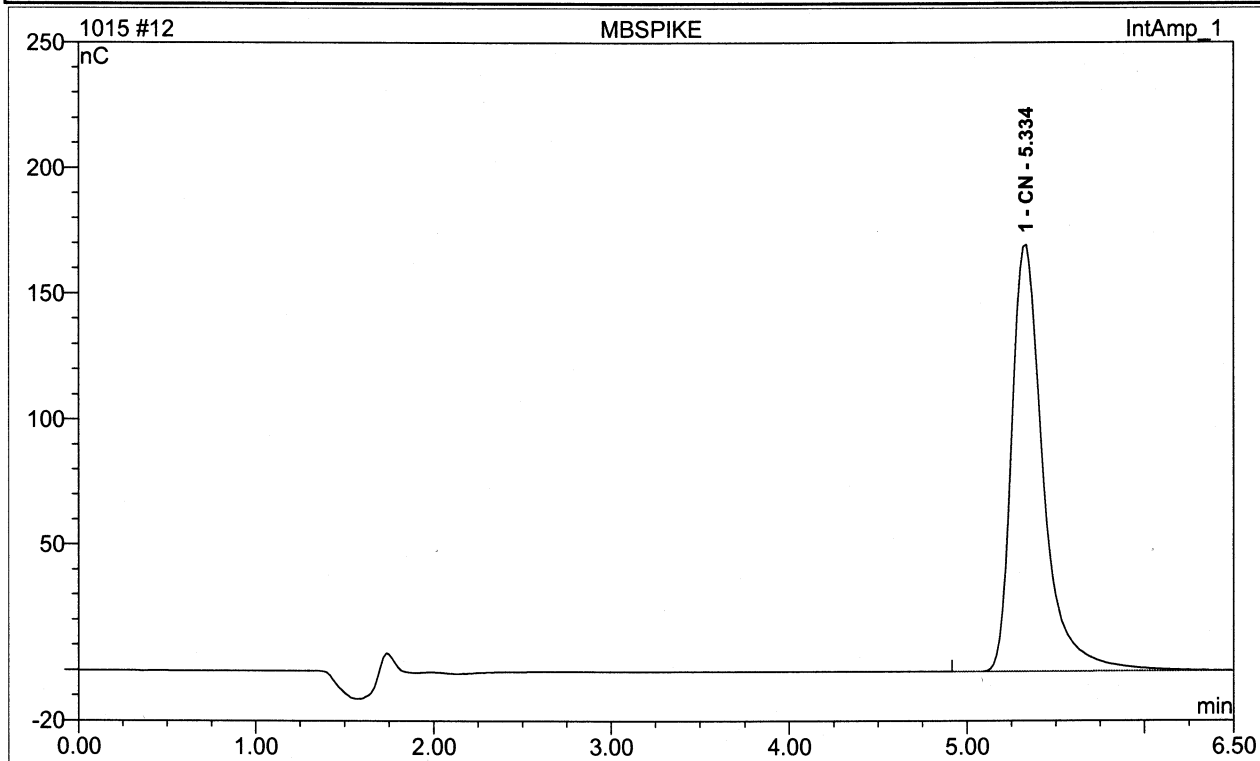
No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.35	CN	167.5142	34.3043	100.00	0.9865	BMB*
Total:			167.5142	34.3043	100.00	0.9865	

Data not use

12 MBSPIKE

*

Sample Name:	MBSPIKE	Injection Volume:	50.0
Vial Number:	13	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 16:06	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

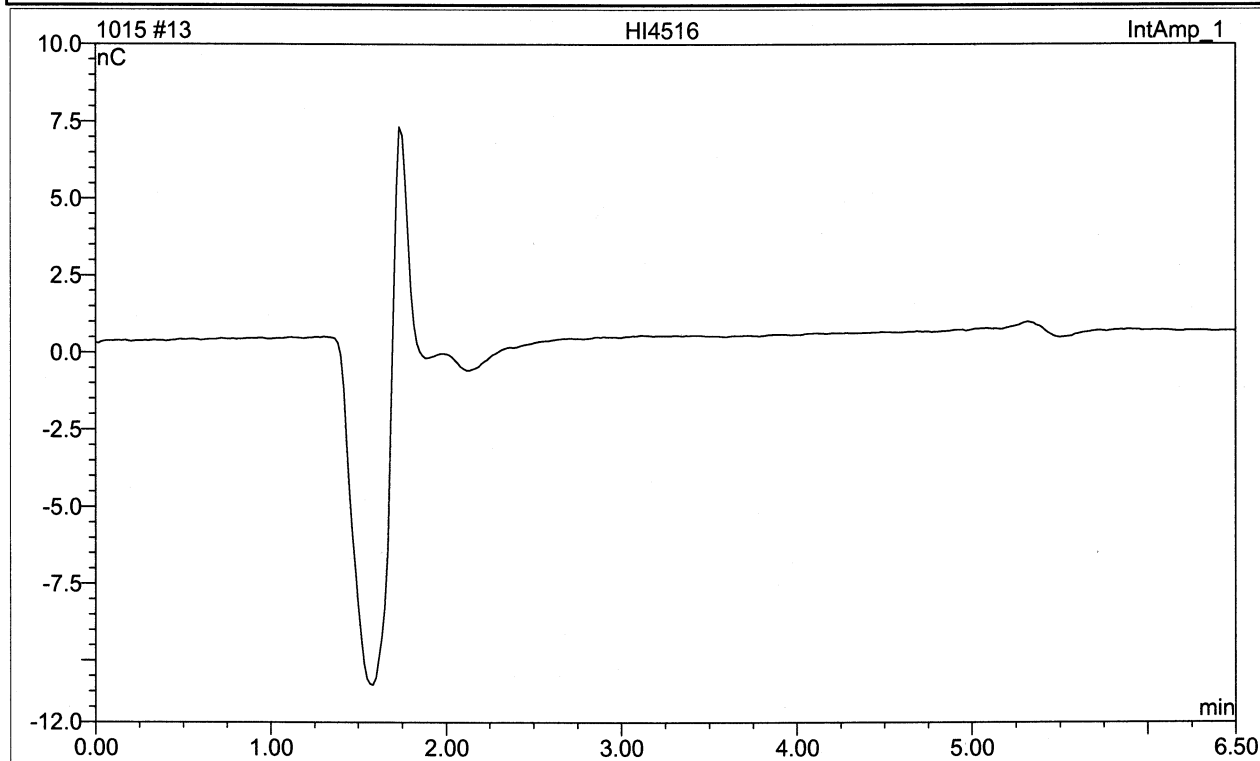


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.33	CN	169.8913	34.9789	100.00	1.0064	BMB
Total:			169.8913	34.9789	100.00	1.0064	

13 HI4516

*

Sample Name:	HI4516	Injection Volume:	50.0
Vial Number:	14	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 16:19	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

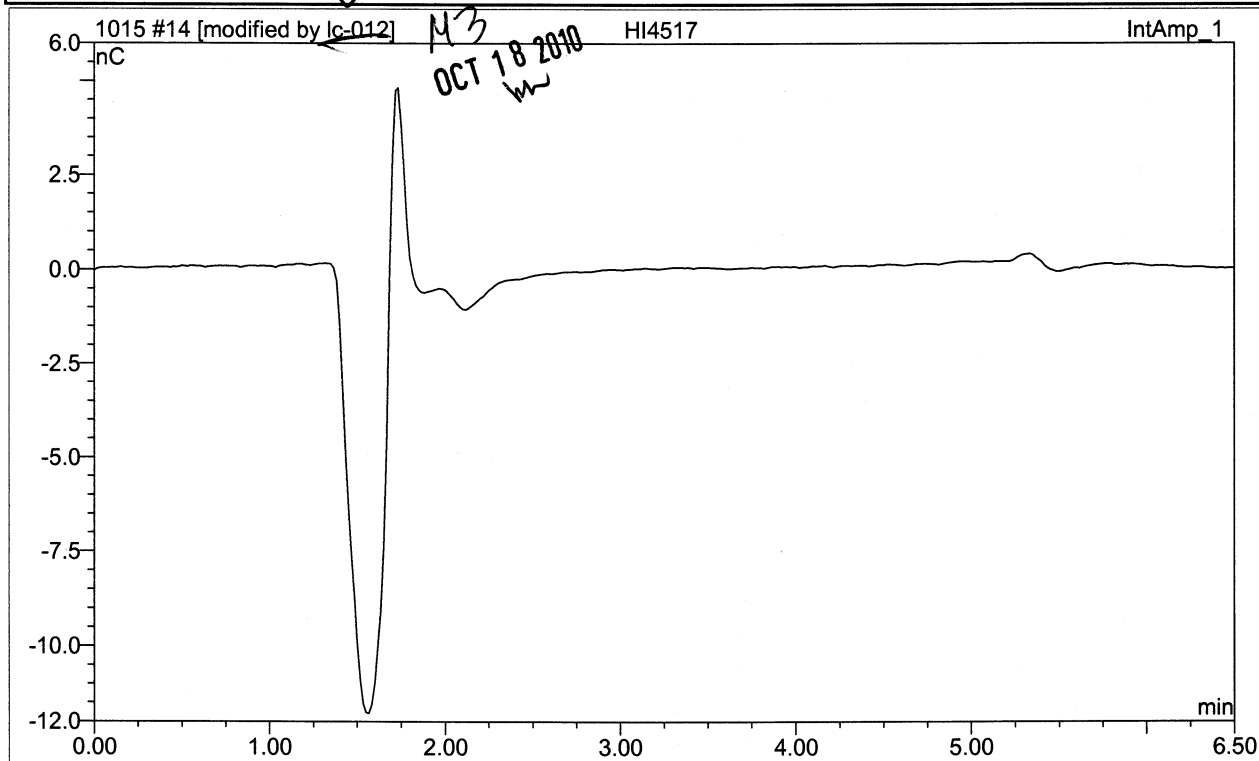


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

14 HI4517

*

Sample Name:	HI4517	Injection Volume:	50.0
Vial Number:	15	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 16:31	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

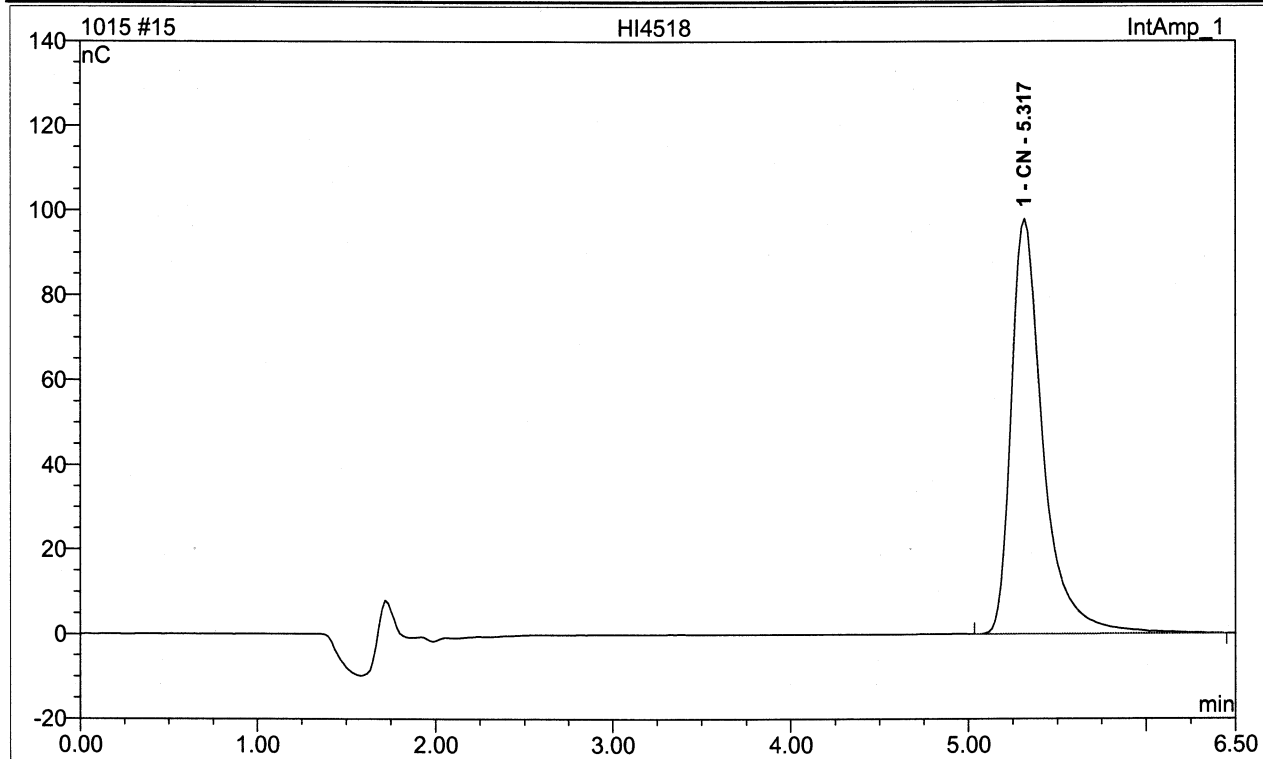


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

15 HI4518

*

Sample Name:	HI4518	Injection Volume:	50.0
Vial Number:	16	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2.0
Recording Time:	2010/10/15 16:43	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

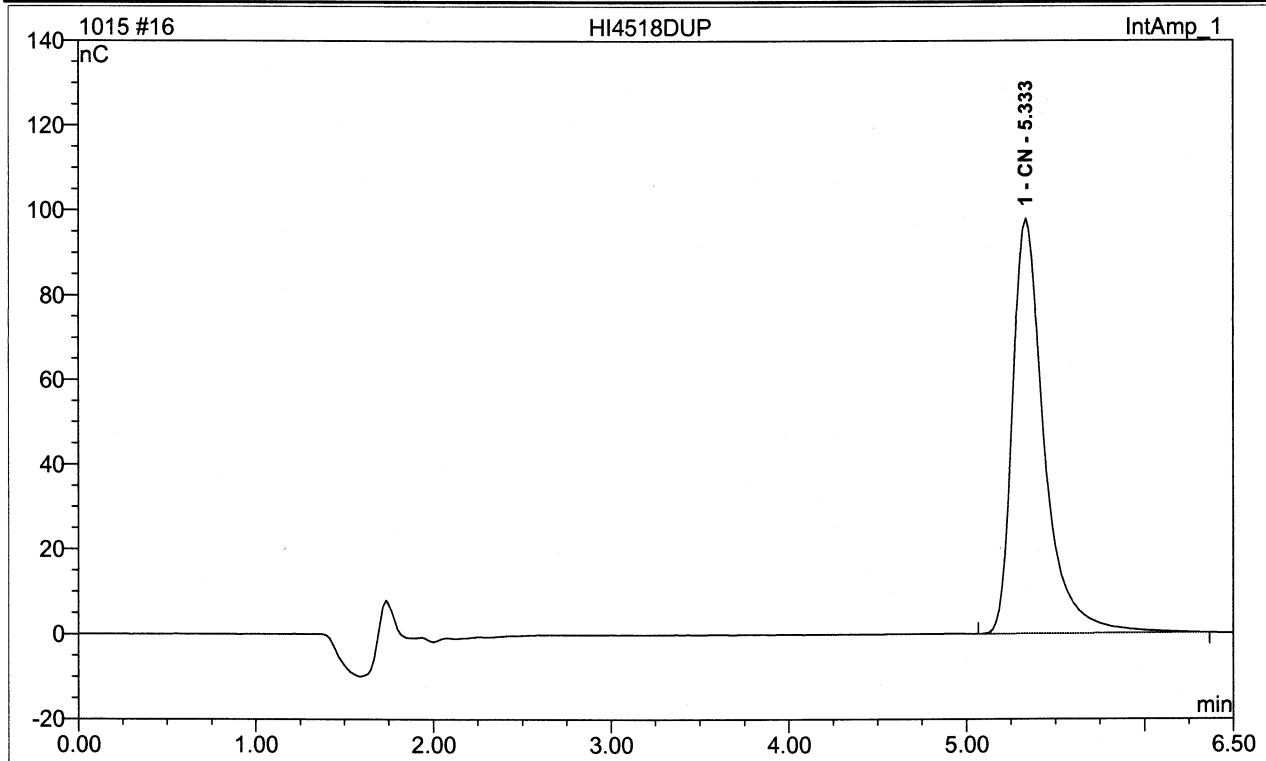


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	97.8999	20.2802	100.00	1.1455	BMB
Total:			97.8999	20.2802	100.00	1.1455	

16 HI4518DUP

*

Sample Name:	HI4518DUP	Injection Volume:	50.0
Vial Number:	17	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2.0
Recording Time:	2010/10/15 16:55	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

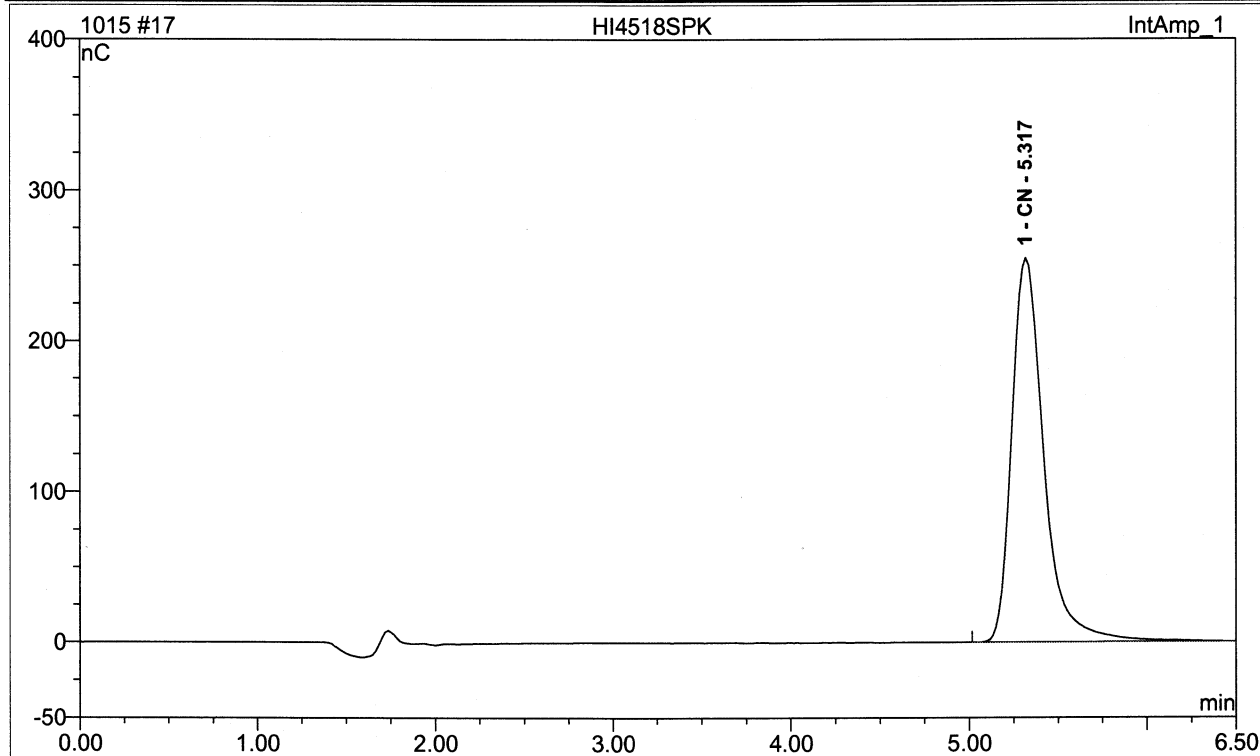


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.33	CN	97.9821	20.1726	100.00	1.1392	BMB
Total:			97.9821	20.1726	100.00	1.1392	

17 HI4518SPK

*

Sample Name:	HI4518SPK	Injection Volume:	50.0
Vial Number:	18	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2.0
Recording Time:	2010/10/15 17:08	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

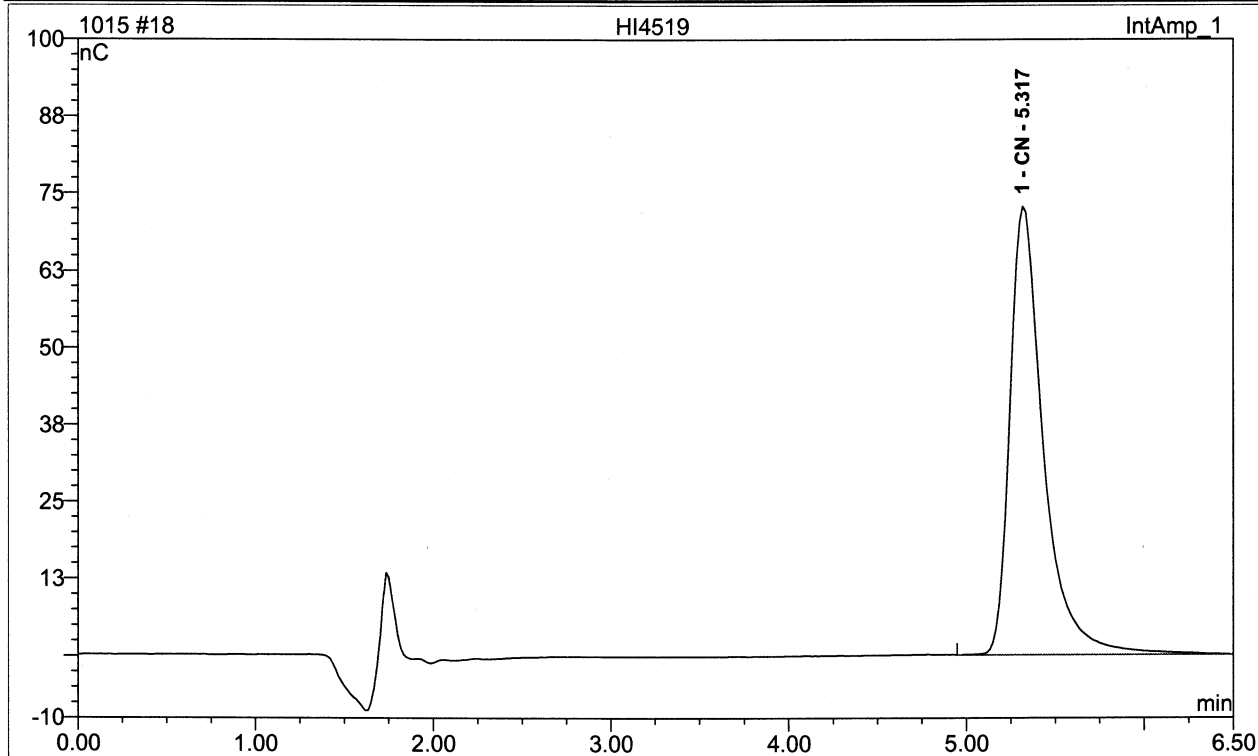


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	255.2238	53.3173	100.00	3.0947	BMB
Total:			255.2238	53.3173	100.00	3.0947	

18 HI4519

*

Sample Name:	HI4519	Injection Volume:	50.0
Vial Number:	19	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 17:33	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

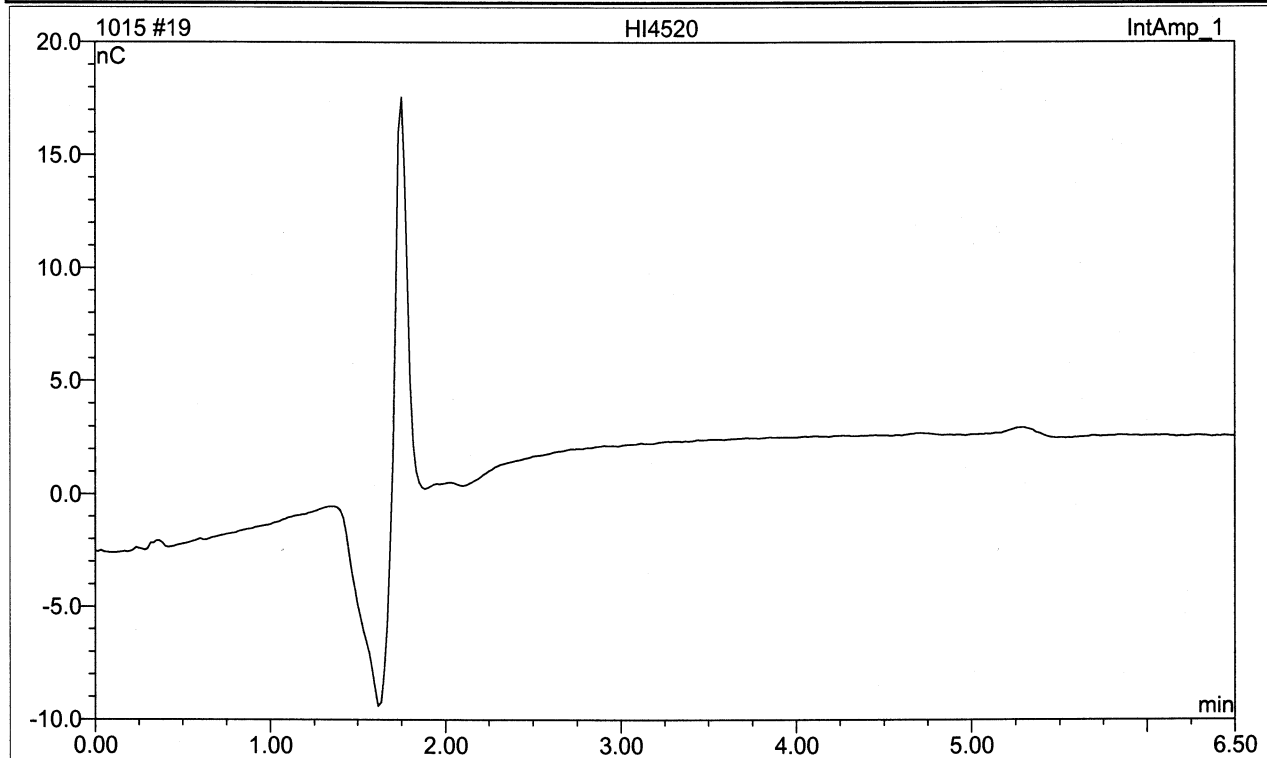


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	72.6862	15.8262	100.00	0.4414	BMB
Total:			72.6862	15.8262	100.00	0.4414	

19 HI4520

*

Sample Name:	HI4520	Injection Volume:	50.0
Vial Number:	20	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 17:45	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



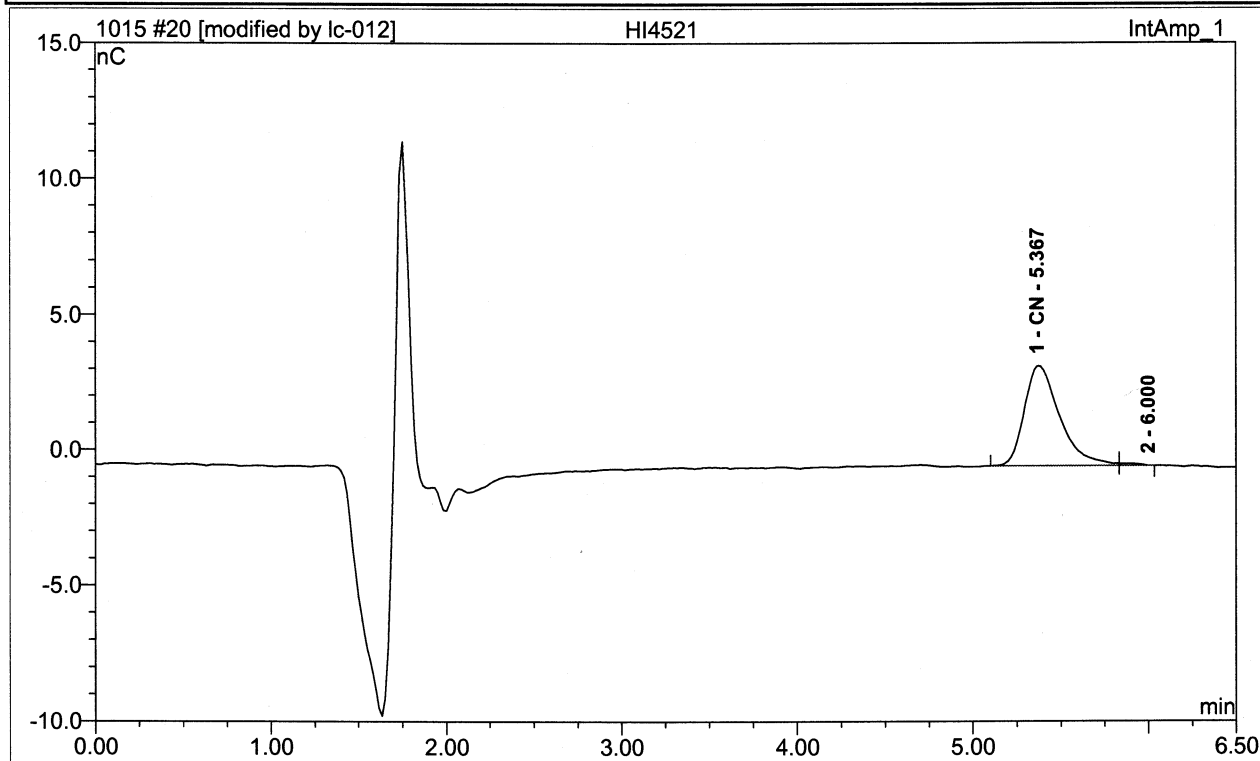
No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

R

20 HI4521

*

Sample Name:	HI4521	Injection Volume:	50.0
Vial Number:	21	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 17:58	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



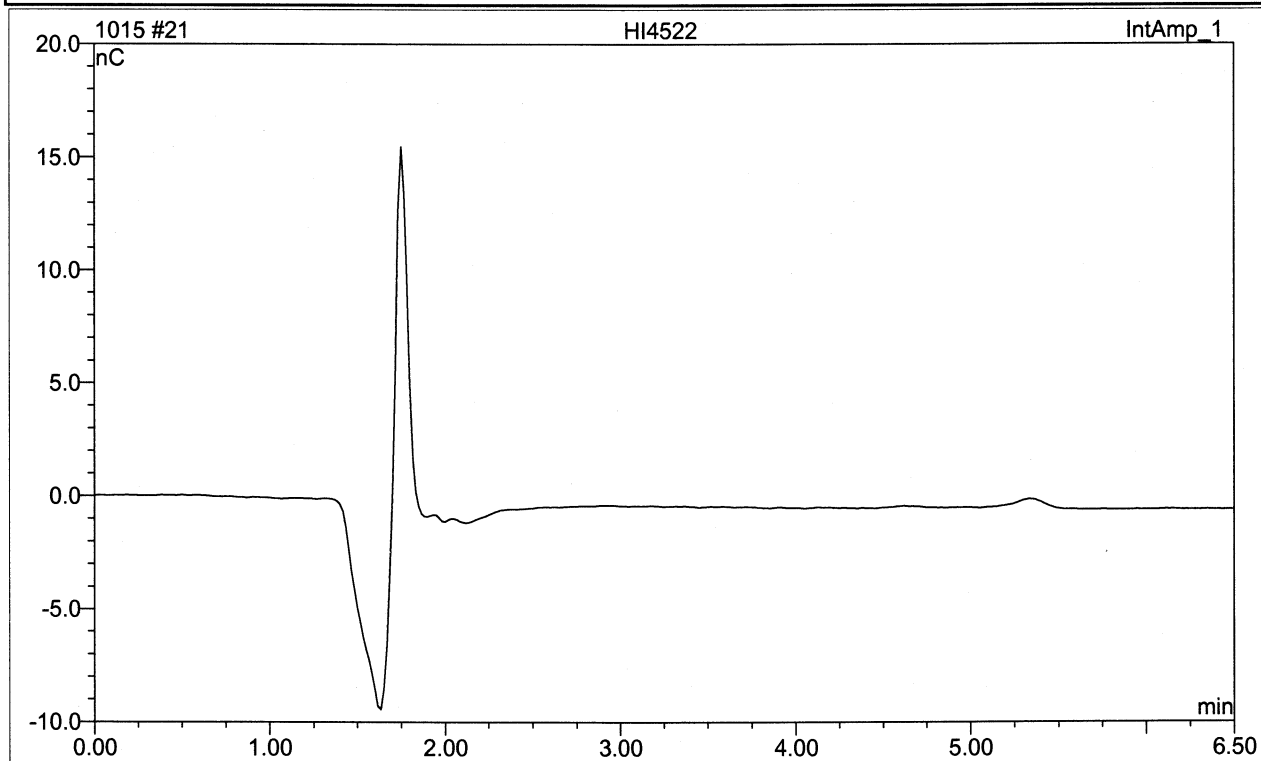
No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.37	CN	3.7153	0.8626	98.96	0.0000	BM *
Total:			3.7153	0.8626	98.96	0.0000	

R

21 HI4522

*

Sample Name:	HI4522	Injection Volume:	50.0
Vial Number:	22	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCM2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 18:10	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

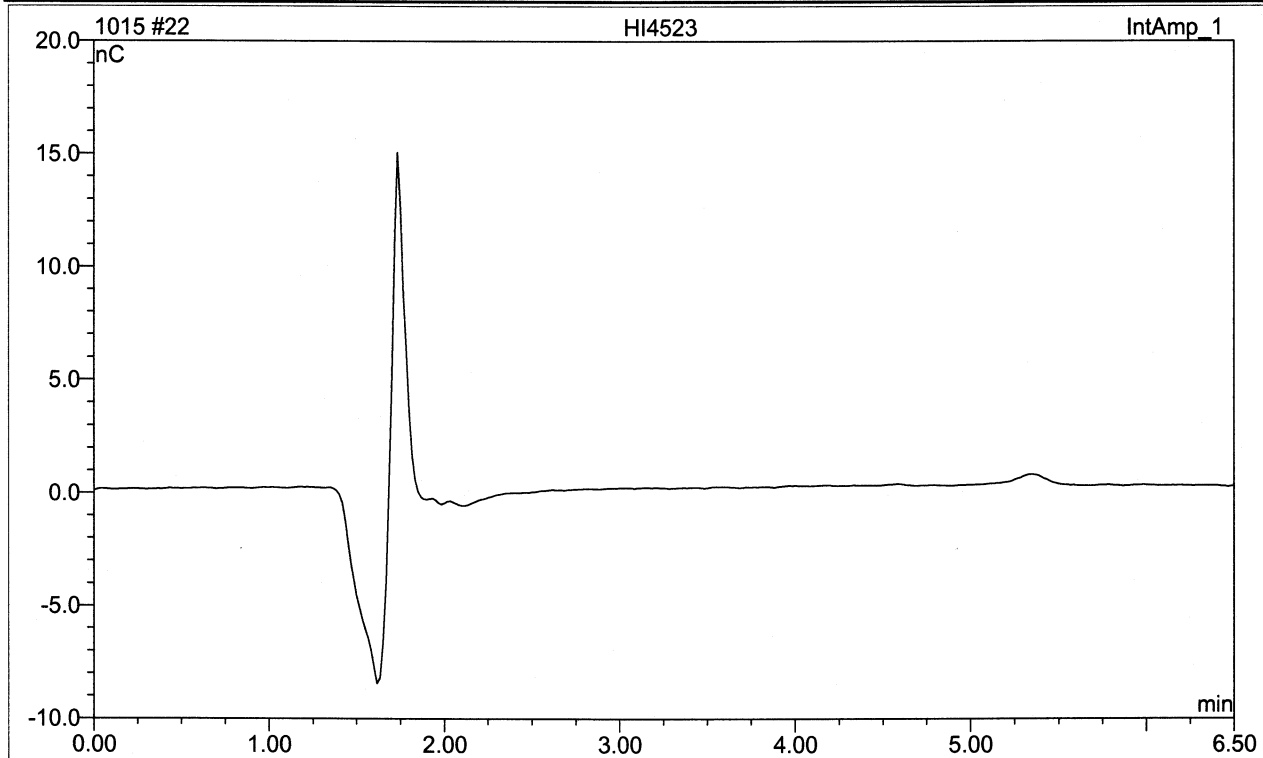


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

22 HI4523

*

Sample Name:	HI4523	Injection Volume:	50.0
Vial Number:	23	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 18:22	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

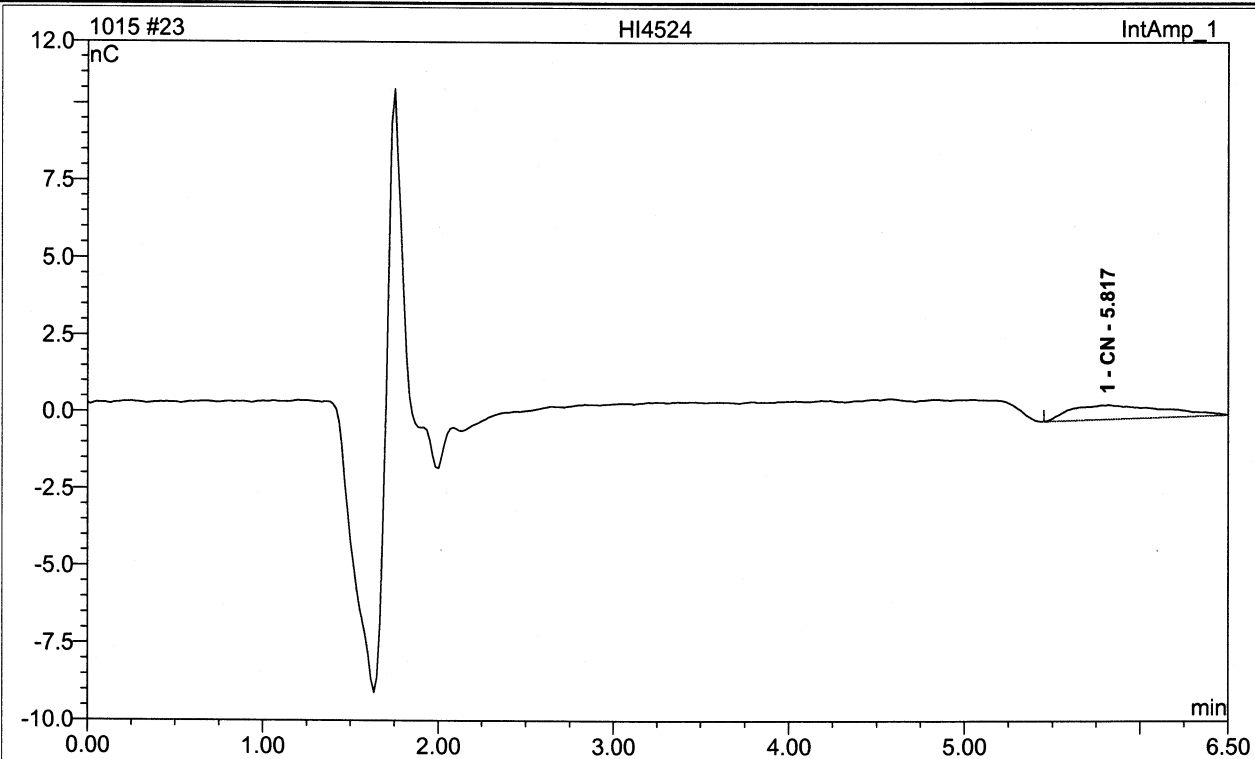


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

23 HI4524

*

Sample Name:	HI4524	Injection Volume:	50.0
Vial Number:	24	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 18:34	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.82	CN	0.4635	0.2858	100.00	-0.0171	BMB
Total:			0.4635	0.2858	100.00	-0.0171	

Not CN peak

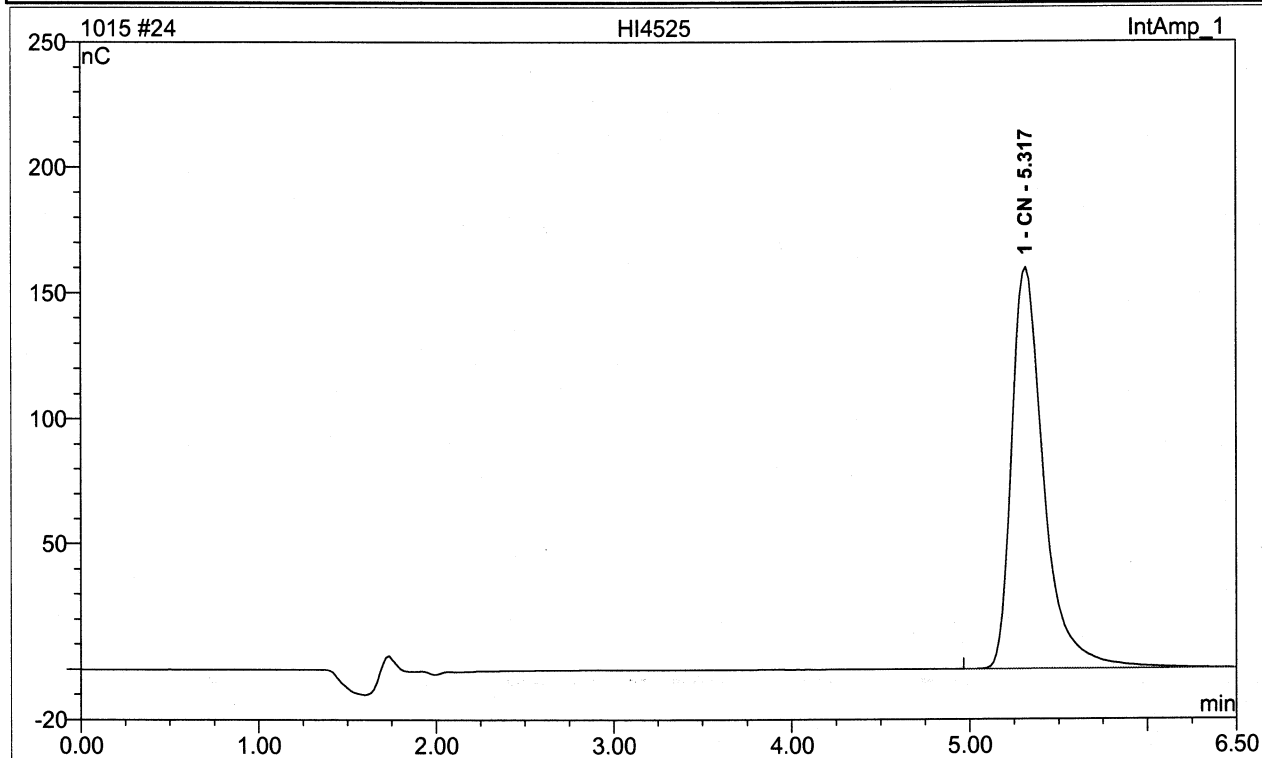
UE
2010/10/18

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24 HI4525

*

Sample Name:	HI4525	Injection Volume:	50.0
Vial Number:	25	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2.0
Recording Time:	2010/10/15 18:47	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

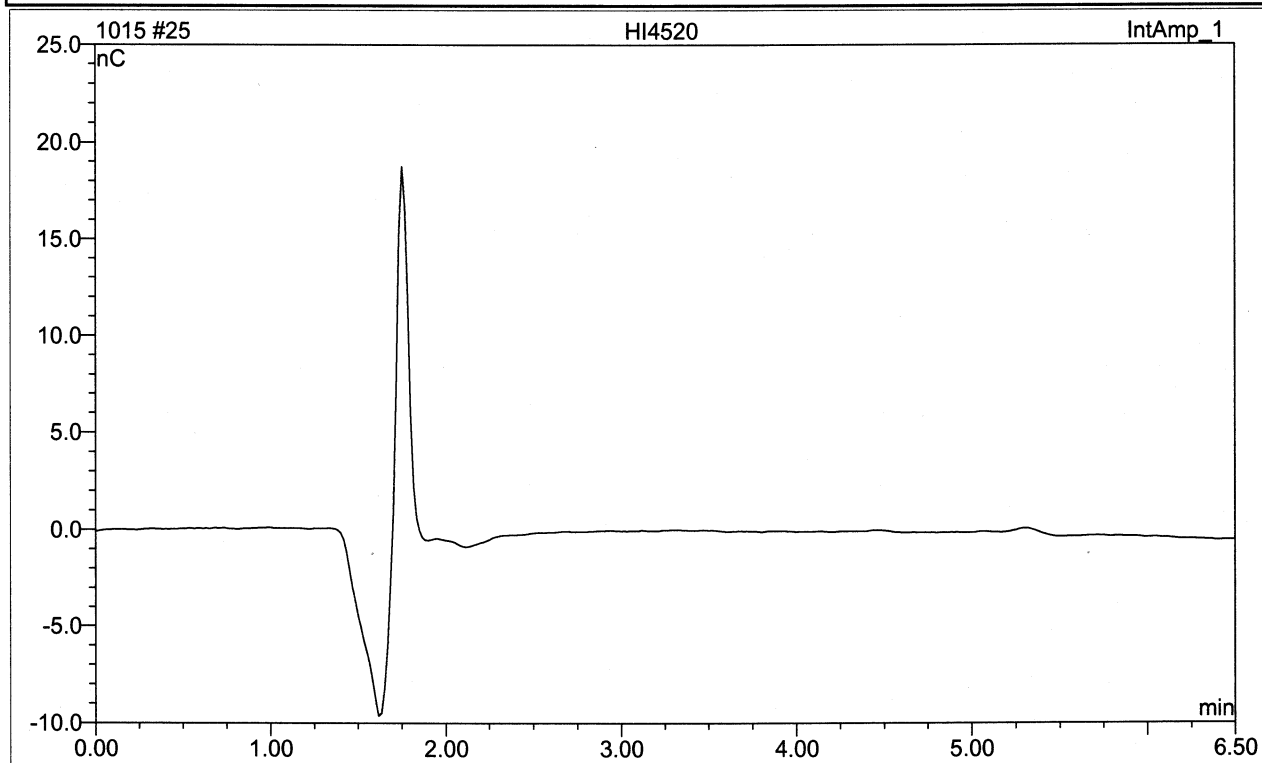


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.32	CN	159.9310	33.4701	100.00	1.9237	BMB
Total:			159.9310	33.4701	100.00	1.9237	

25 HI4520

*

Sample Name:	HI4520	Injection Volume:	50.0
Vial Number:	26	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 18:59	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

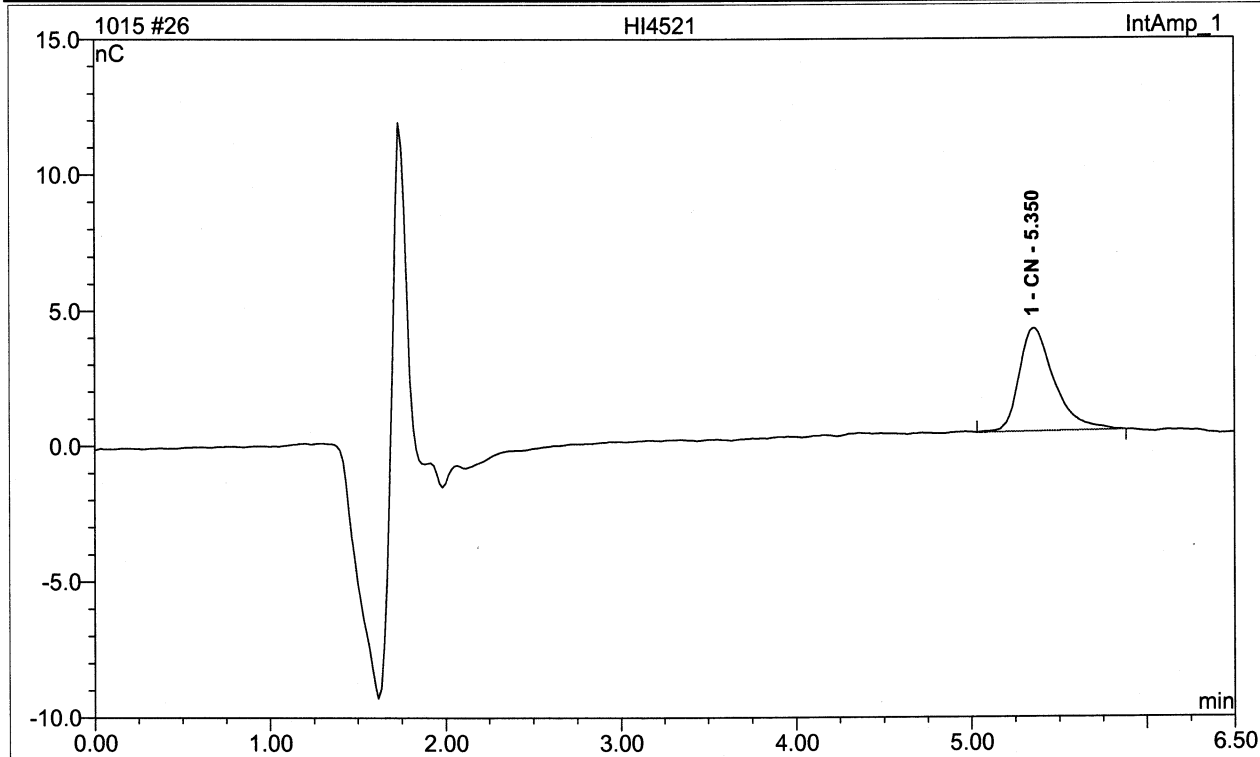


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

26 HI4521

*

Sample Name:	HI4521	Injection Volume:	50.0
Vial Number:	27	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 19:11	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

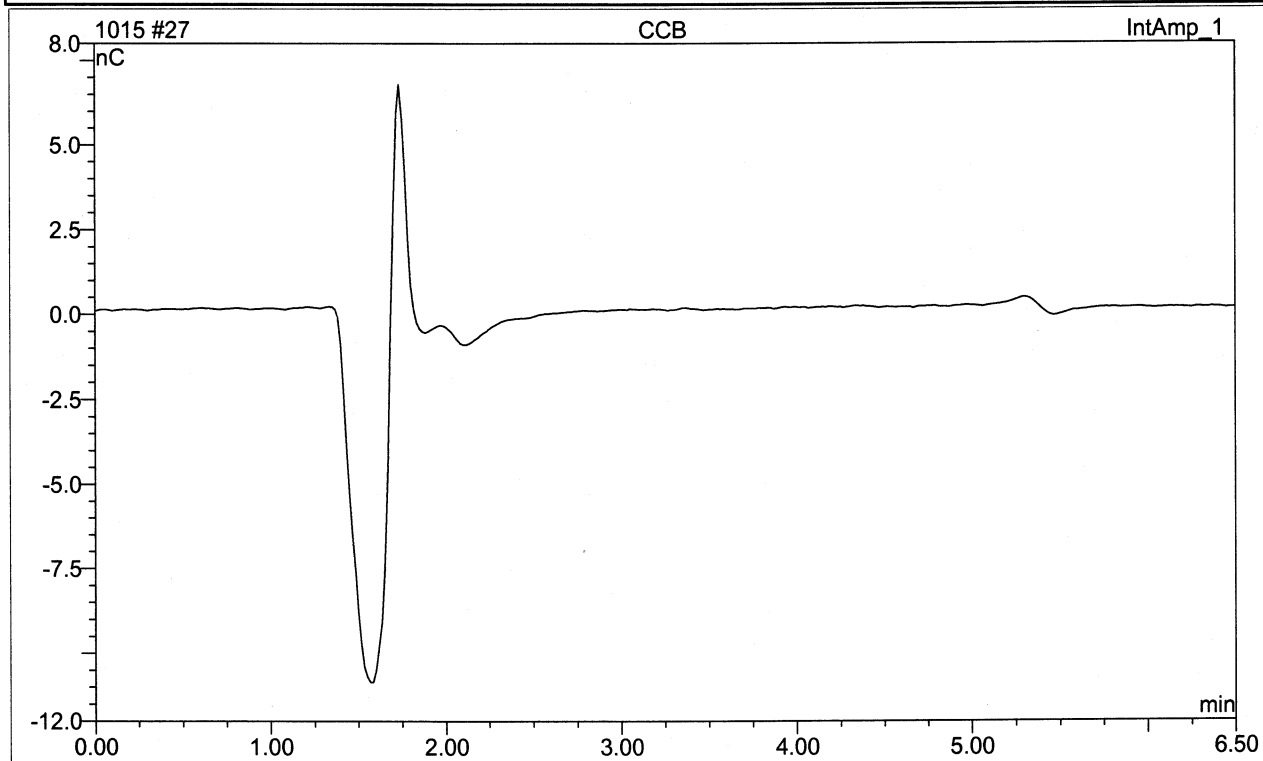


No.	Ret. Time min	Peak Name	Height nC	Area nC*min	Rel. Area %	Amount ppm	Type
1	5.35	CN	3.8111	0.8800	100.00	0.0005	BMB
Total:			3.8111	0.8800	100.00	0.0005	

27 CCB

*

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	28	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 19:24	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

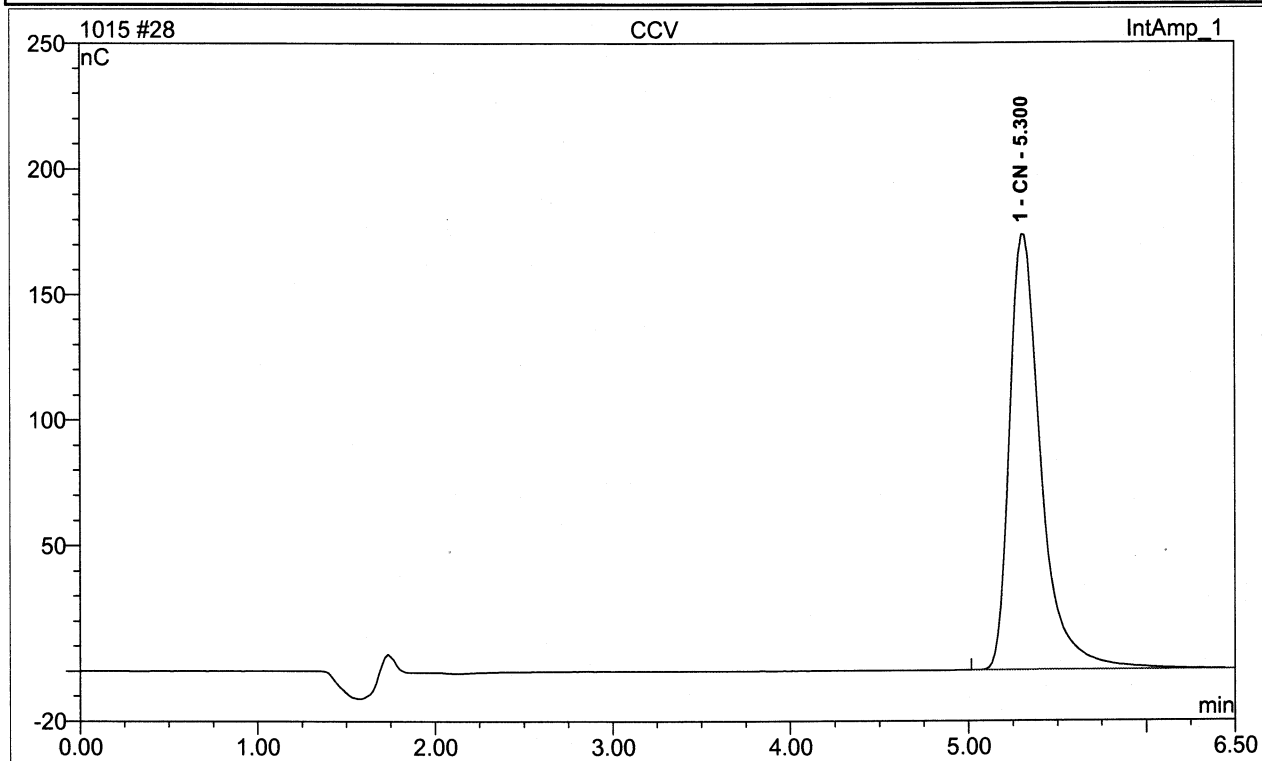


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

28 CCV

*

Sample Name:	CCV	Injection Volume:	50.0
Vial Number:	29	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/15 19:36	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

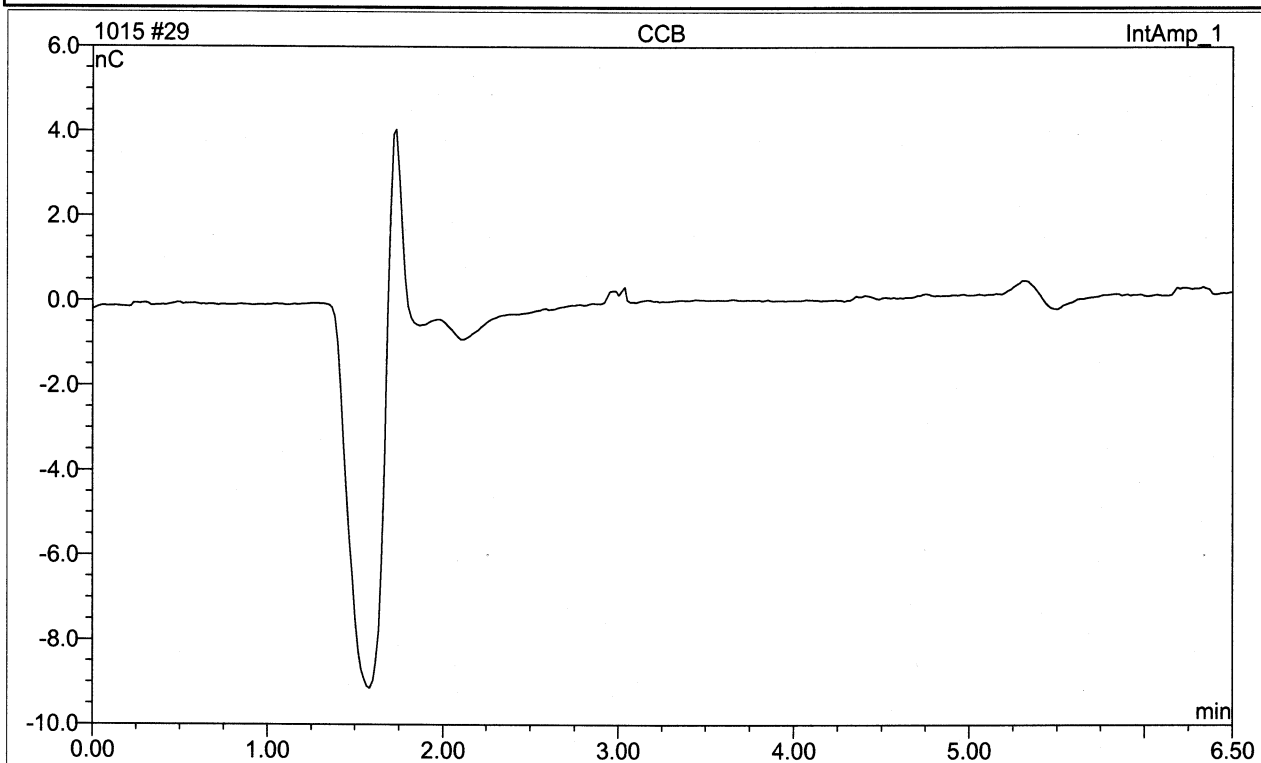


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.30	CN	173.5455	35.6383	100.00	1.0258	BMB
Total:			173.5455	35.6383	100.00	1.0258	

29 CCB

*

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	31	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 11:40	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

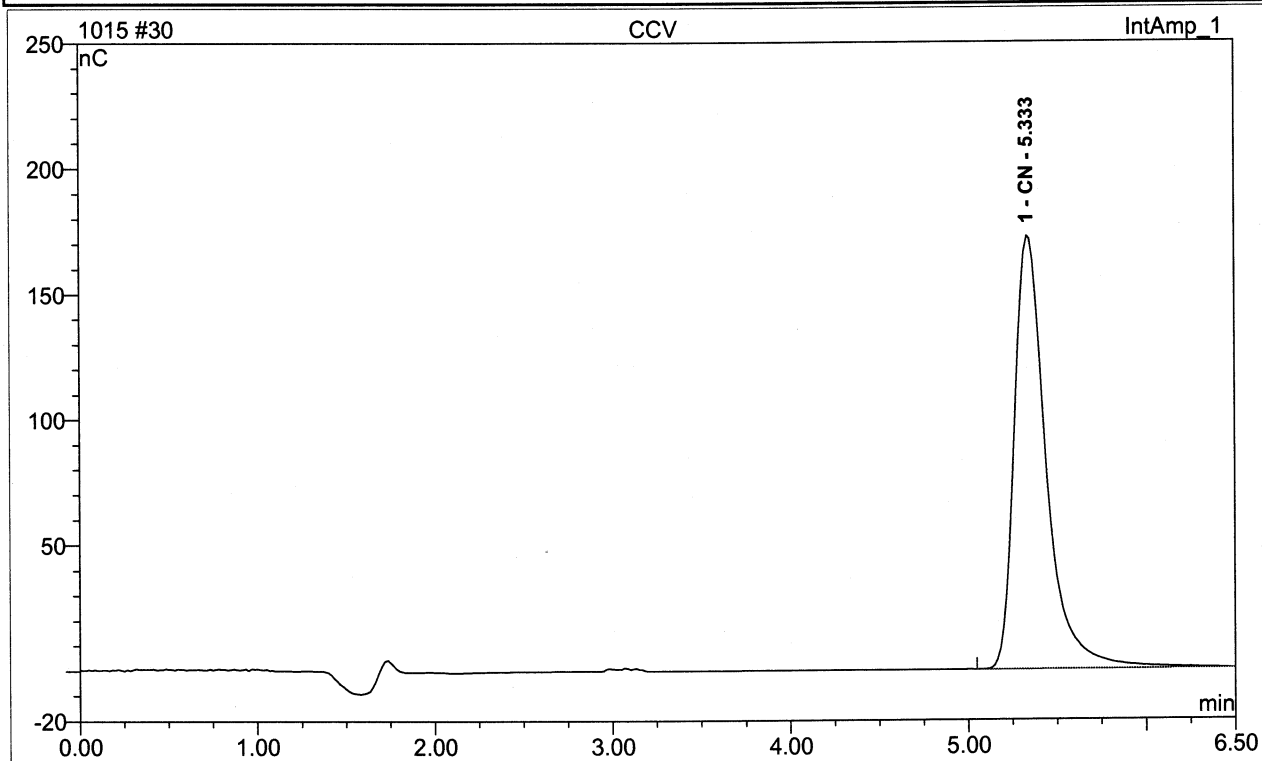


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

30 CCV

*

Sample Name:	CCV	Injection Volume:	50.0
Vial Number:	32	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 11:52	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

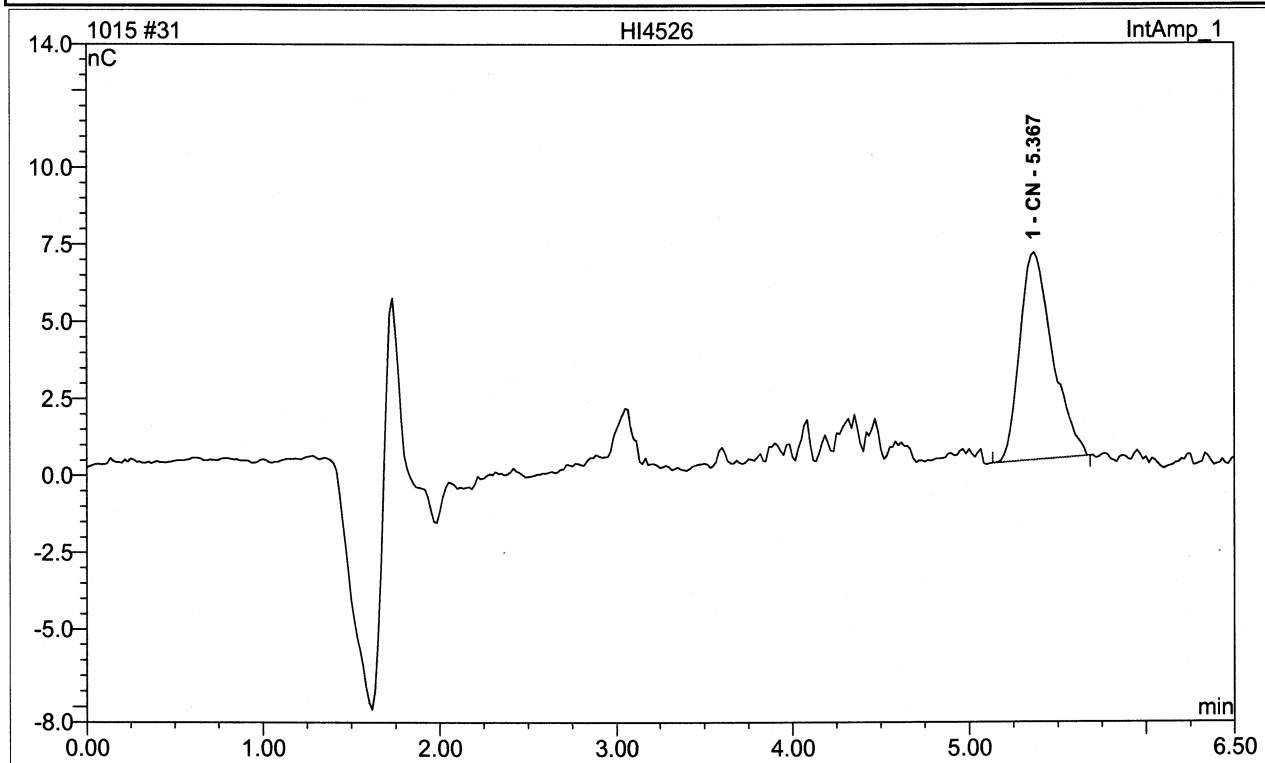


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.33	CN	172.6560	35.8046	100.00	1.0307	BMB
Total:			172.6560	35.8046	100.00	1.0307	

31 HI4526

*

Sample Name:	HI4526	Injection Volume:	50.0
Vial Number:	33	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 12:05	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

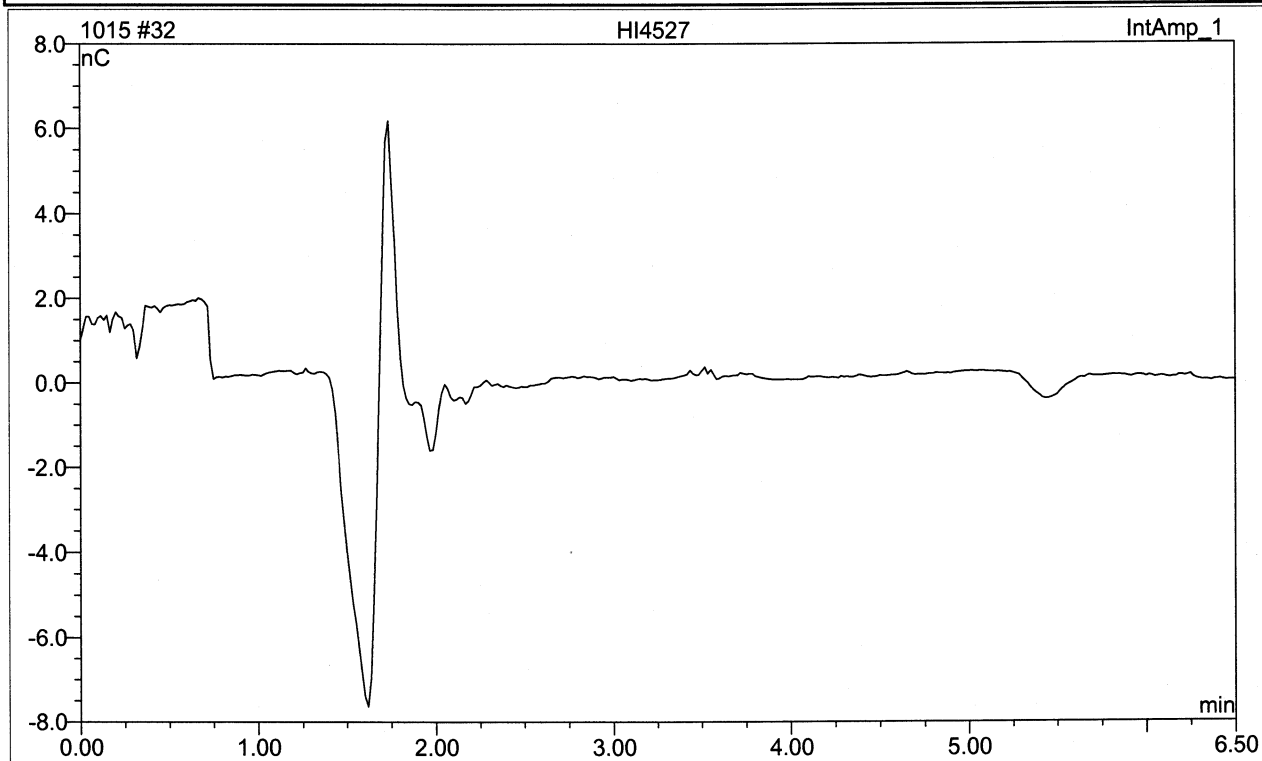


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.37	CN	6.7365	1.4398	100.00	0.0170	BMB
Total:			6.7365	1.4398	100.00	0.0170	

32 HI4527

*

Sample Name:	HI4527	Injection Volume:	50.0
Vial Number:	34	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 12:17	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

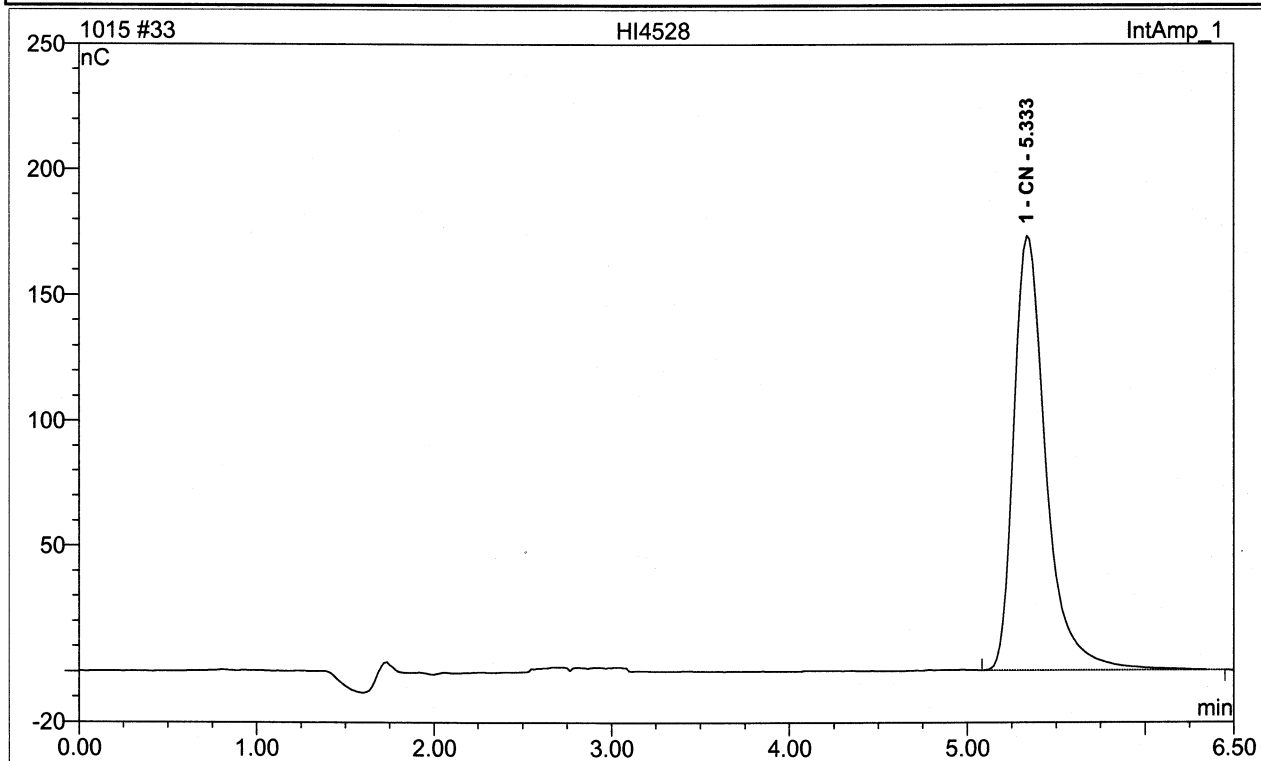


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

33 HI4528

*

Sample Name:	HI4528	Injection Volume:	50.0
Vial Number:	35	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2.0
Recording Time:	2010/10/16 12:29	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

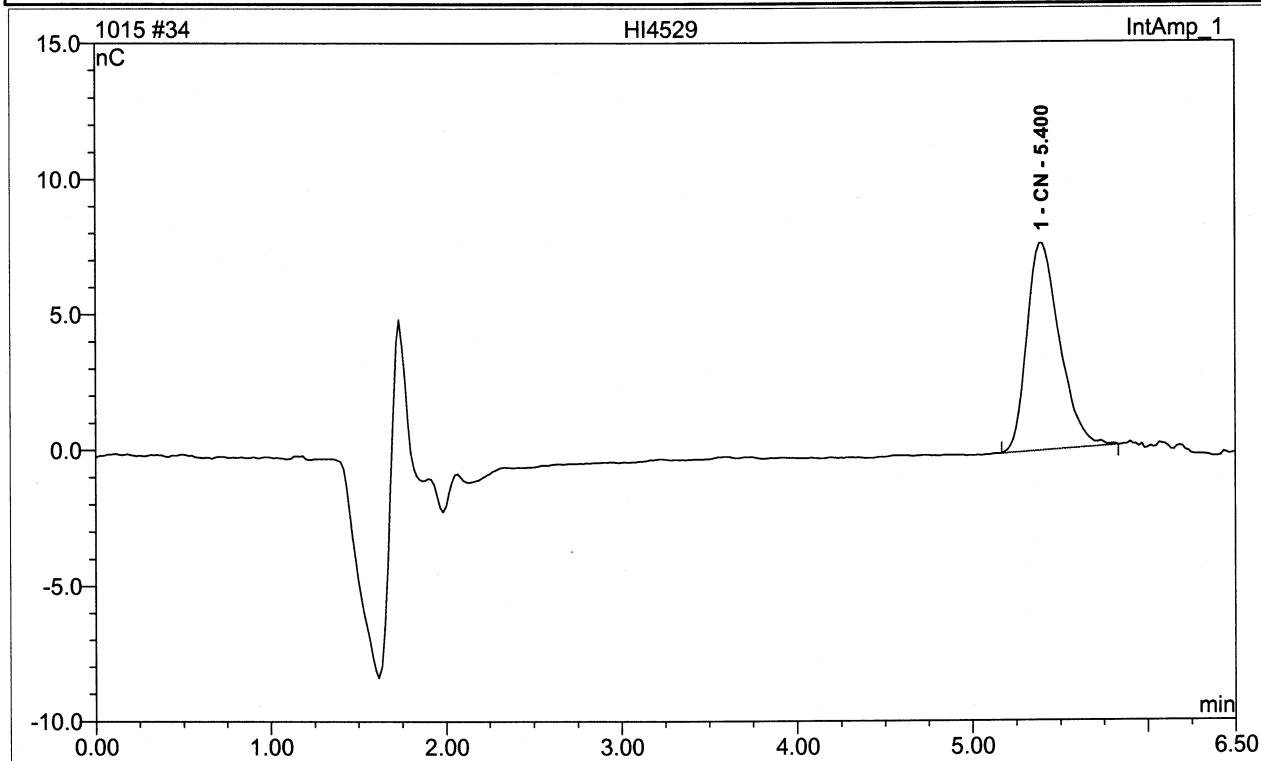


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.33	CN	173.0578	36.2861	100.00	2.0898	BMB
Total:			173.0578	36.2861	100.00	2.0898	

34 HI4529

*

Sample Name:	HI4529	Injection Volume:	50.0
Vial Number:	36	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 12:41	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

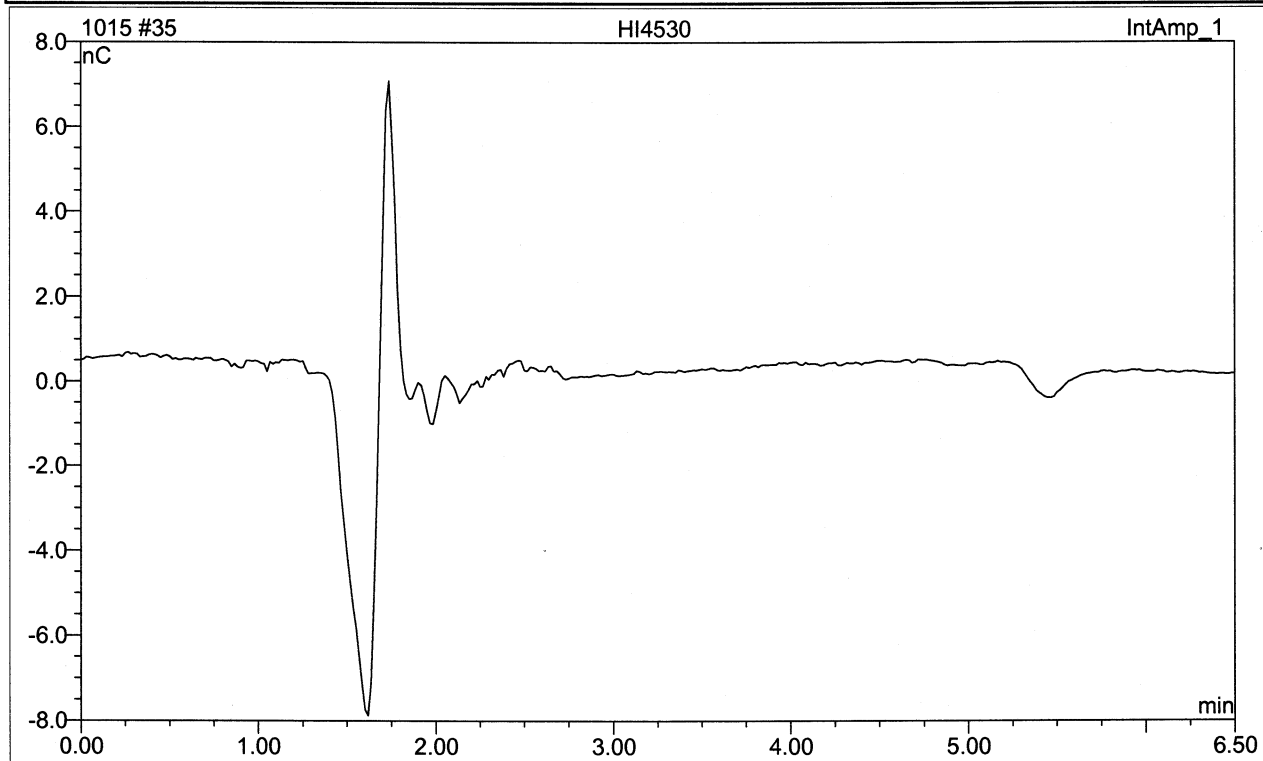


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.40	CN	7.6505	1.6576	100.00	0.0234	BMB
Total:			7.6505	1.6576	100.00	0.0234	

35 HI4530

*

Sample Name:	HI4530	Injection Volume:	50.0
Vial Number:	37	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 12:54	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

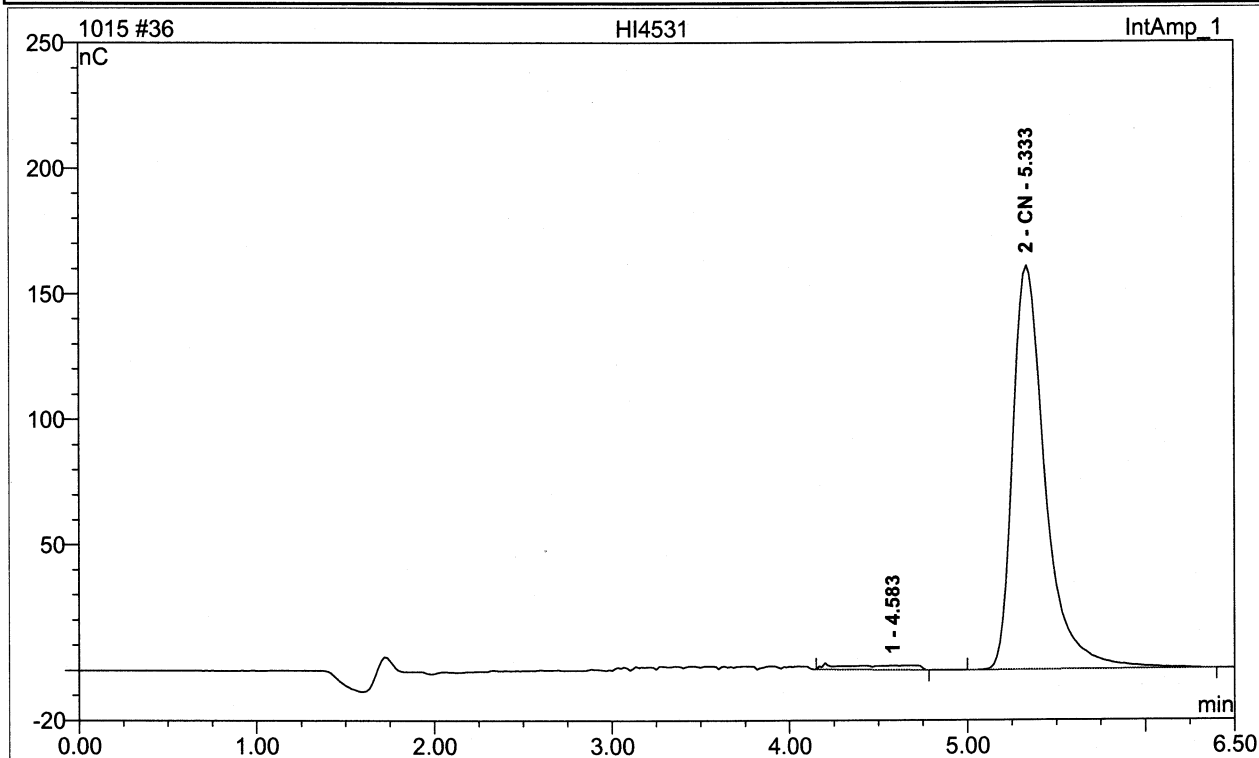


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

36 HI4531

*

Sample Name:	HI4531	Injection Volume:	50.0
Vial Number:	38	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2.0
Recording Time:	2010/10/16 13:06	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

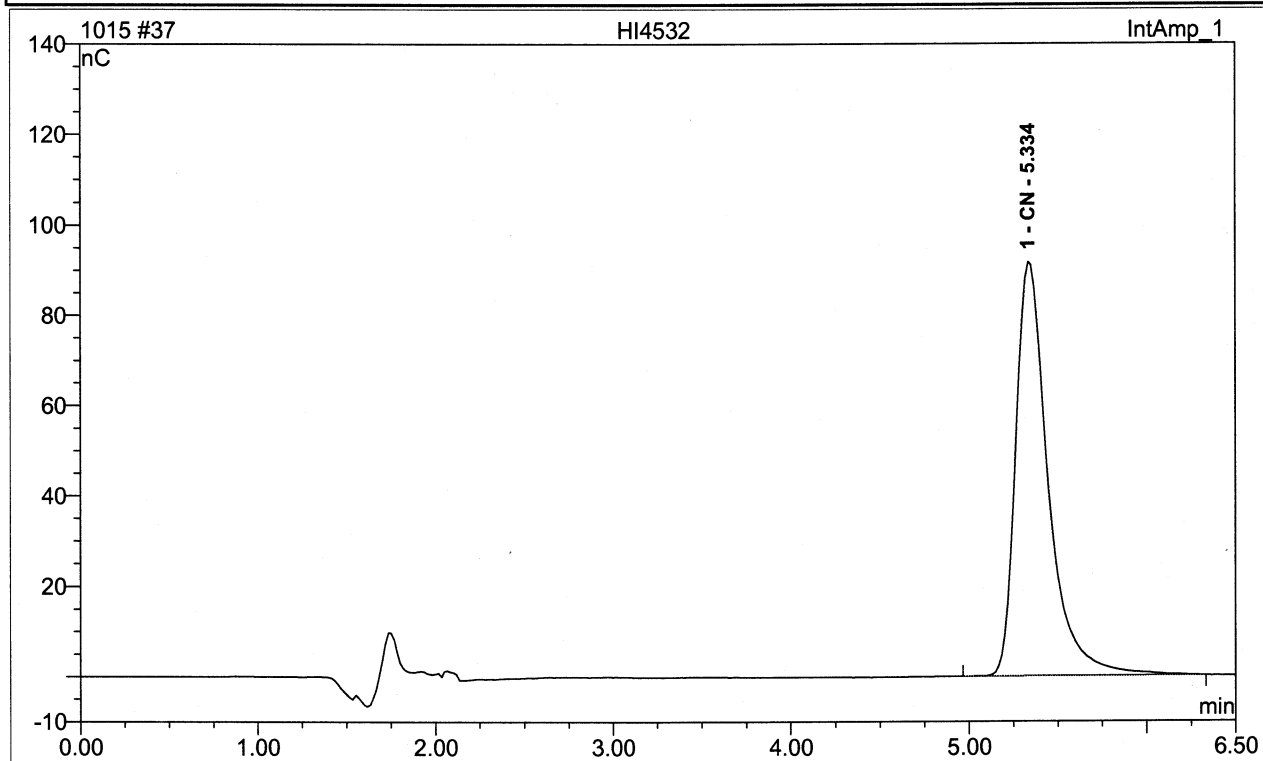


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
2	5.33	CN	160.8927	33.9110	97.48	1.9497	BMB
Total:			160.8927	33.9110	97.48	1.9497	

37 HI4532

*

Sample Name:	HI4532	Injection Volume:	50.0
Vial Number:	39	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 13:18	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

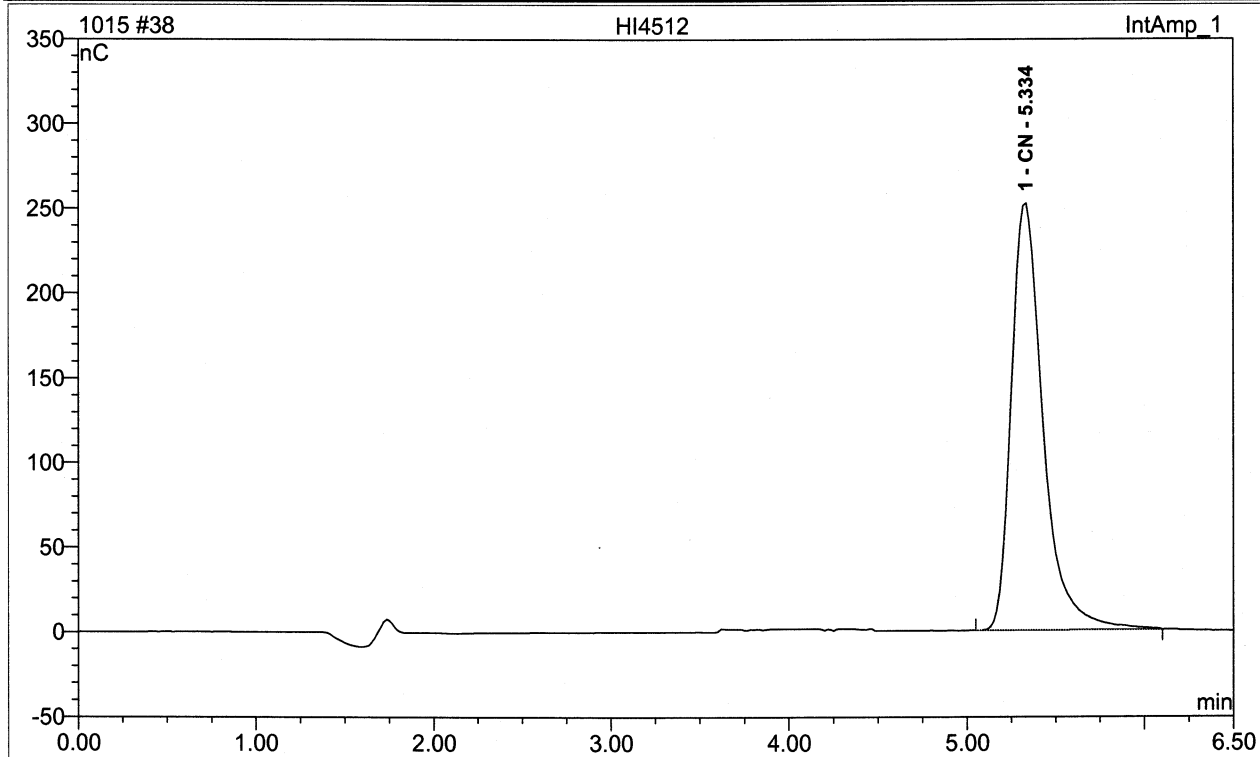


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.33	CN	91.7422	19.4698	100.00	0.5489	BMB
Total:			91.7422	19.4698	100.00	0.5489	

38 HI4512

*

Sample Name:	HI4512	Injection Volume:	50.0
Vial Number:	40	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	2.0
Recording Time:	2010/10/16 13:31	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

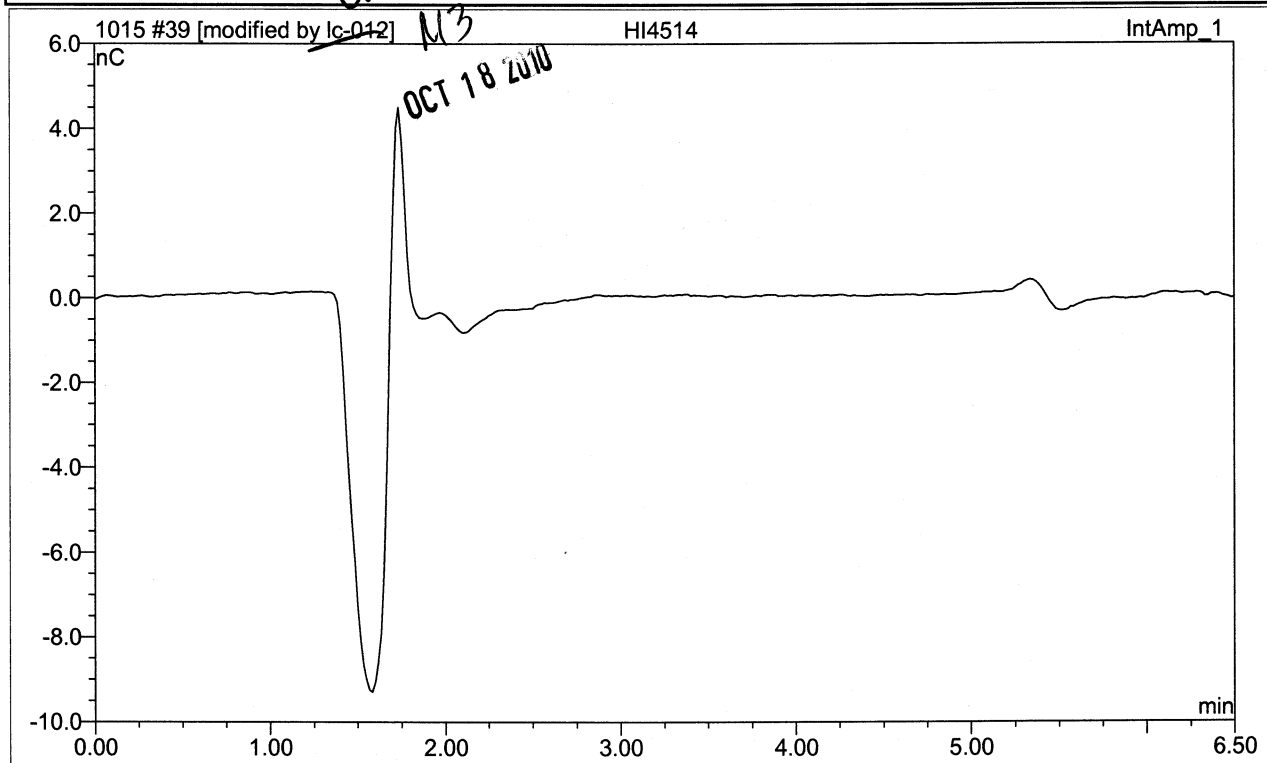


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.33	CN	252.0504	52.4001	100.00	3.0405	BMB
Total:			252.0504	52.4001	100.00	3.0405	

39 HI4514

*

Sample Name:	HI4514	Injection Volume:	50.0
Vial Number:	41	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 13:43	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

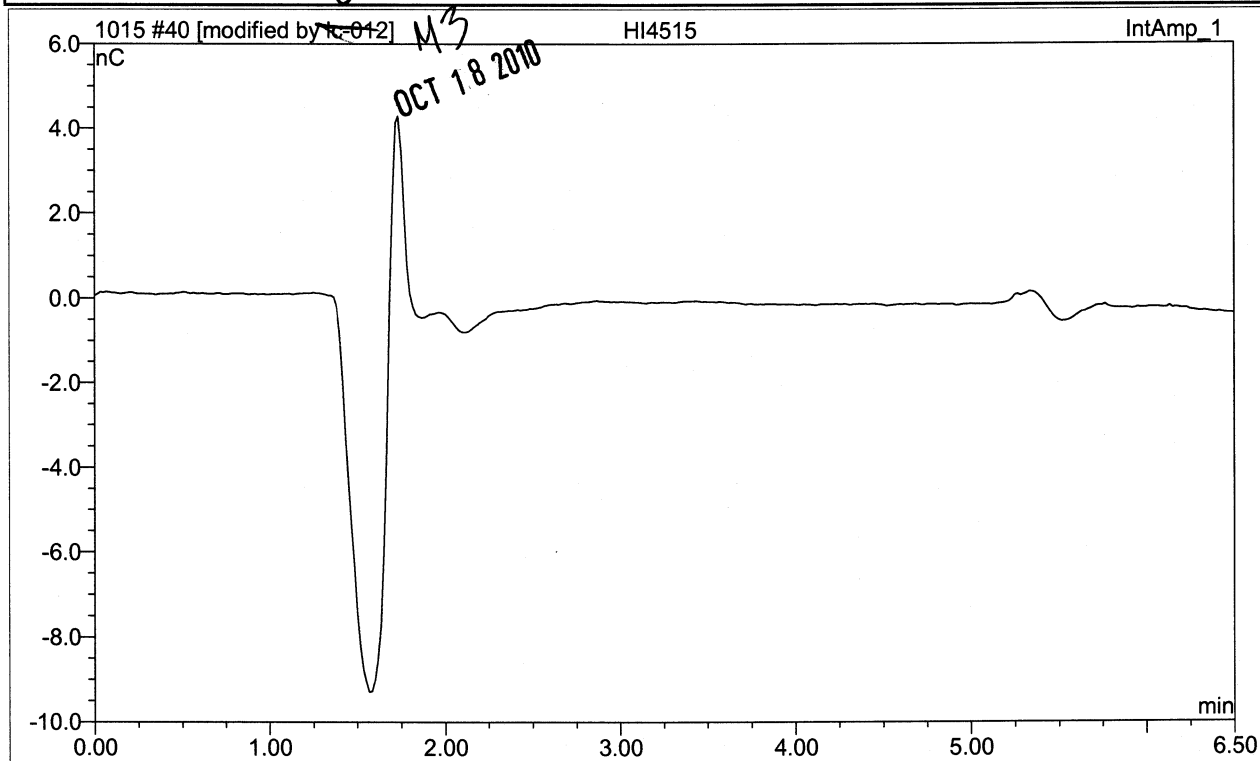


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

40 HI4515

*

Sample Name:	HI4515	Injection Volume:	50.0
Vial Number:	42	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 13:55	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

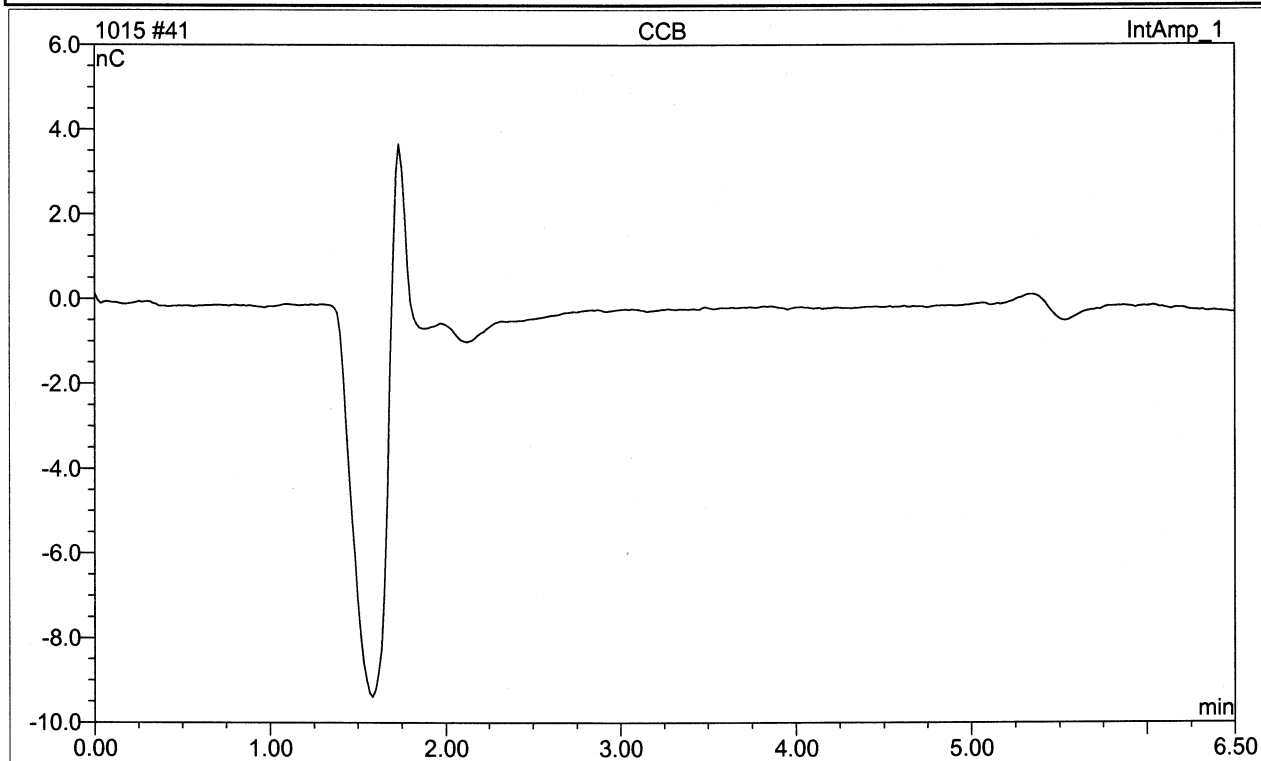


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

41 CCB

*

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	43	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 14:08	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0

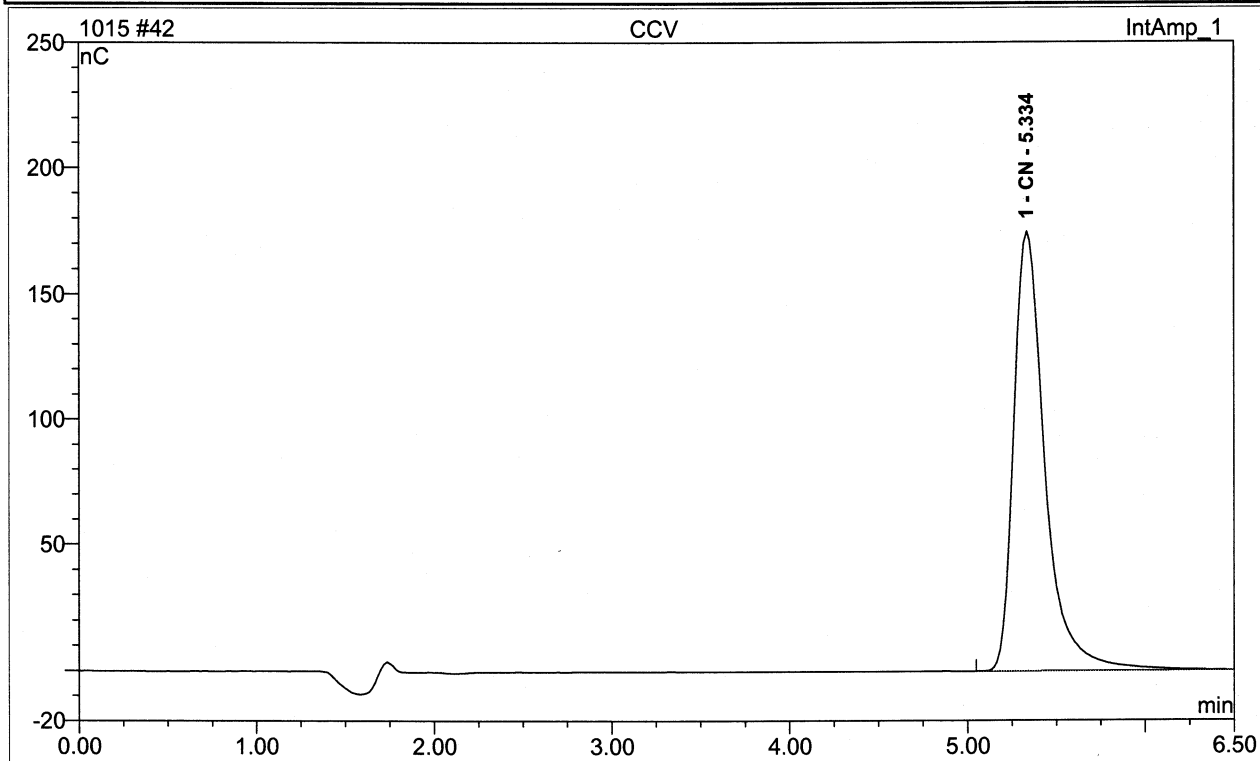


No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
Total:			0.0000	0.0000	0.00	0.0000	

42 CCV

*

Sample Name:	CCV	Injection Volume:	50.0
Vial Number:	44	Channel:	IntAmp_1
Sample Type:	unknown	DIONEX UNIT	#1
Control Program:	HCN2010	Bandwidth:	n.a.
Quantif. Method:	CN2010	Dilution Factor:	1.0
Recording Time:	2010/10/16 14:20	Sample Weight:	1.0
Run Time (min):	6.50	Sample Amount:	1.0



No.	Ret.Time min	Peak Name	Height nC	Area nC*min	Rel.Area %	Amount ppm	Type
1	5.33	CN	174.9214	35.4115	100.00	1.0191	BMB
Total:			174.9214	35.4115	100.00	1.0191	



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Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com