
AIR



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Final Report

Hot Mix Asphalt Plants Truck Loading and Silo Filling Manual Methods Testing

Asphalt Plant C Los Angeles, California

Volume 6 of 8



FINAL REPORT

**HOT MIX ASPHALT PLANTS
TRUCK LOADING AND SILO FILLING
MANUAL METHODS TESTING
ASPHALT PLANT C, LOS ANGELES, CALIFORNIA**

**VOLUME 6 OF 8
APPENDIX G.3 (CONCLUDED)**

**EPA Contract No. 68-D-98-004
Work Assignment No. 3-02**

Prepared for:

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May 2000

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GLOSSARY OF TERMS

ASTM – American Society for Testing and Materials
 CEMS – Continuous Emissions Monitoring System
 CTS – Calibration Transfer Standard
 EMC – Emissions Measurement Center
 EMAD – Emission Monitoring and Analysis Division
 ESP – Electrostatic Precipitator
 FID – Flame Ionization Detector
 FTIR – Fourier Transform Infrared Spectroscopy
 HAP – Hazardous Air Pollutant
 MCEM – Methylene Chloride Extractable Matter
 MRI – Midwest Research Institute
 PES – Pacific Environmental Services
 PM – Particulate Matter
 PTE – Permanent Total Enclosure
 RAP – Recycled Asphalt
 RTFOT – Rolling Thin Film Oven Test
 SED – Silo Exhaust Duct

GLOSSARY OF TERMS (CONTINUED)

SMTG – Source Measurement Technology Group
SVOHAP – Semi-Volatile Organic Hazardous Air Pollutant
TED – Tunnel Emissions Duct
TFOT – Thin Film Oven Test
THC – Total Hydrocarbons
VOHAP – Volatile Organic Hazardous Air Pollutant
VOST – Volatile Organic Sampling Train

VOLUME 5B

APPENDIX G

ANALYTICAL DATA (CONTINUED)

G.3 SVOHAPS DATA (CONCLUDED)

Semivolatile Organics
Method 0010/8270

Client Name: Pacific Environmental Services
Client ID: S-MM5-RB-F, FH, XAD, COND, BH
LAB ID: 300681-0009-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 25 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
Phenol	ND	ug/Sample	30	R
bis(2-Chloroethyl)ether	ND	ug/Sample	30	
2-Chlorophenol	ND	ug/Sample	30	
1,3-Dichlorobenzene	ND	ug/Sample	30	
1,4-Dichlorobenzene	ND	ug/Sample	30	
Benzyl alcohol	ND	ug/Sample	30	
1,2-Dichlorobenzene	ND	ug/Sample	30	
2-Methylphenol	ND	ug/Sample	30	
2,2'-Oxybis(1-chloropropane)	ND	ug/Sample	30	
3/4-Methylphenol	ND	ug/Sample	30	
N-Nitroso-di-n-propylamine	ND	ug/Sample	30	
Hexachloroethane	ND	ug/Sample	30	
Nitrobenzene	ND	ug/Sample	30	
Isophorone	ND	ug/Sample	30	
2-Nitrophenol	ND	ug/Sample	30	
2,4-Dimethylphenol	ND	ug/Sample	30	
Benzoic acid	ND	ug/Sample	150	
bis(2-Chloroethoxy)-methane	ND	ug/Sample	30	
2,4-Dichlorophenol	ND	ug/Sample	30	
1,2,4-Trichlorobenzene	ND	ug/Sample	30	
Naphthalene	ND	ug/Sample	30	
4-Chloroaniline	ND	ug/Sample	30	
Hexachlorobutadiene	ND	ug/Sample	30	
4-Chloro-3-methylphenol	ND	ug/Sample	30	
2-Methylnaphthalene	ND	ug/Sample	30	
Hexachlorocyclopentadiene	ND	ug/Sample	30	
2,4,6-Trichlorophenol	ND	ug/Sample	30	
2,4,5-Trichlorophenol	ND	ug/Sample	150	
2-Chloronaphthalene	ND	ug/Sample	30	
2-Nitroaniline	ND	ug/Sample	30	
Dimethyl phthalate	ND	ug/Sample	30	
Acenaphthylene	ND	ug/Sample	30	
3-Nitroaniline	ND	ug/Sample	150	
Acenaphthene	ND	ug/Sample	30	
2,4-Dinitrophenol	ND	ug/Sample	150	
4-Nitrophenol	ND	ug/Sample	150	
Dibenzofuran	ND	ug/Sample	30	

Note R = Reporting limit(s) raised due to sample volume limitations.
ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Karin Yee

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Semivolatile Organics
Method 0010/8270

(cont.)

Client Name: Pacific Environmental Services
Client ID: S-MM5-RB-F, FH, XAD, COND, BH
LAB ID: 300681-0009-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 25 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
2,4-Dinitrotoluene	ND	ug/Sample	30	
2,6-Dinitrotoluene	ND	ug/Sample	30	
Diethyl phthalate	ND	ug/Sample	30	
4-Chlorophenyl phenyl ether	ND	ug/Sample	30	
Fluorene	ND	ug/Sample	30	
4-Nitroaniline	ND	ug/Sample	150	
4,6-Dinitro-2-methylphenol	ND	ug/Sample	150	
N-Nitrosodiphenylamine	ND	ug/Sample	30	
4-Bromophenyl phenyl ether	ND	ug/Sample	30	
Hexachlorobenzene	ND	ug/Sample	30	
Pentachlorophenol	ND	ug/Sample	150	
Phenanthrene	ND	ug/Sample	30	
Anthracene	ND	ug/Sample	30	
Di-n-butyl phthalate	ND	ug/Sample	30	
Fluoranthene	ND	ug/Sample	30	
Pyrene	ND	ug/Sample	30	
Butyl benzyl phthalate	ND	ug/Sample	30	
3,3'-Dichlorobenzidine	ND	ug/Sample	60	
Benzo(a)anthracene	ND	ug/Sample	30	
bis(2-Ethylhexyl)-phthalate	ND	ug/Sample	30	
Chrysene	ND	ug/Sample	30	
Di-n-octyl phthalate	ND	ug/Sample	30	
Benzo(b)fluoranthene	ND	ug/Sample	30	
Benzo(k)fluoranthene	ND	ug/Sample	30	
Benzo(a)pyrene	ND	ug/Sample	30	
Indeno(1,2,3-cd)pyrene	ND	ug/Sample	30	
Dibenz(a,h)anthracene	ND	ug/Sample	30	
Benzo(g,h,i)perylene	ND	ug/Sample	30	
Acetophenone	ND	ug/Sample	30	
4-Aminobiphenyl	ND	ug/Sample	150	
Aniline	ND	ug/Sample	30	
Benzidine	ND	ug/Sample	300	
3,3'-Dimethylbenzidine	ND	ug/Sample	60	
N-Nitrosodimethylamine	ND	ug/Sample	30	
N-Nitrosomorpholine	ND	ug/Sample	30	
Pentachloronitrobenzene (PCNB)	ND	ug/Sample	150	
o-Toluidine	ND	ug/Sample	60	

ND = Not Detected

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Approved By: Karin Yee

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Semivolatile Organics
Method 0010/8270

(cont.)

Client Name: Pacific Environmental Services

Client ID: S-MM5-RB-F, FH, XAD, COND, BH

LAB ID: 300681-0009-SA

Matrix: AIRTRAIN

Authorized: 30 JUL 98

Sampled: 25 JUL 98

Prepared: 31 JUL 98

Received: 30 JUL 98

Analyzed: 31 AUG 98

Dilution Factor: 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
2-Methoxybenzenamine	ND	ug/Sample	--	K
Biphenyl	ND	ug/Sample	--	K
Chloroacetophenone	ND	ug/Sample	--	K
Cumene	ND	ug/Sample	--	K
DBCP (1,2-Dibromo-3-chloropropane)	ND	ug/Sample	--	K
Benzo(e)pyrene	ND	ug/Sample	--	K
N-N-Diethylaniline	ND	ug/Sample	--	K
Dimethylaniline	ND	ug/Sample	--	K
3,3'-Dimethoxybenzidine	ND	ug/Sample	--	K
Hydroquinone	ND	ug/Sample	--	K
4,4'-Methyl-bis(2-chloroaniline)	ND	ug/Sample	--	K
4-Nitrodiphenyl	ND	ug/Sample	--	K
Trifluralin	ND	ug/Sample	--	K

Surrogate	Recovery	Acceptable Range
Nitrobenzene-d5	61 %	45 - 107
2-Fluorobiphenyl	86 %	62 - 110
Terphenyl-d14	97 %	58 - 135
Phenol-d5	67 %	43 - 130
2-Fluorophenol	62 %	36 - 111
2,4,6-Tribromophenol	84 %	58 - 131

Note K = Identified by mass spectrum only; quantitation based on 1:1 response with internal standard.

ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Karin Yee

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Semivolatiles Library Search (20 Compound TID)
Method 8270

Client Name: Pacific Environmental Services

Client ID: S-MM5-RB-F, FH, XAD, COND, BH

LAB ID: 300681-0009-SA

Matrix: AIRTRAIN

Authorized: 30 JUL 98

Sampled: 25 JUL 98

Prepared: NA

Received: 30 JUL 98

Analyzed: 31 AUG 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
n-Nonane	400	ug/Sample	--	0
Unknown	51	ug/Sample	--	
Unknown	77	ug/Sample	--	
Unknown	71	ug/Sample	--	
Unknown	42	ug/Sample	--	
Unknown	63	ug/Sample	--	
Unknown	99	ug/Sample	--	
5-Eiconsene, (E) -	250	ug/Sample	--	0
Unknown	94	ug/Sample	--	
Unknown	63	ug/Sample	--	
Unknown alkane	27	ug/Sample	--	
Unknown	35	ug/Sample	--	
Unknown	140	ug/Sample	--	
4-Hydroxy-4-methyl-2-pentanone	270	ug/Sample	--	0
Unknown	110	ug/Sample	--	
Unknown	81	ug/Sample	--	
Unknown	26	ug/Sample	--	
9-Eicosene (E)-	57	ug/Sample	--	0
Unknown	61	ug/Sample	--	
Unknown	72	ug/Sample	--	

Note 0 = Or structurally similar compound (isomer).

NA = Not Applicable

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Approved By: Karin Yee

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QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068109
Std Id: ST16980831

Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 22:58
Analyst: DAT Instrument ID: F16 Run Factor: 3.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	
	Spiked	Measured	Measured	QC limits
CS20 NITROBENZENE-D5	50.00	30.60	61.2	45 107
CS25 2-FLUOROBIPHENY	50.00	43.00	86.0	62 110
CS30 TERPHENYL-D14	50.00	48.60	97.2	58 135
CS45 PHENOL-D5	100.0	66.90	66.9	43 130
CS50 2-FLUOROPHENOL	100.0	62.40	62.4	36 111
CS55 2,4,6-TRIBROMOP	100.0	84.30	84.3	58 131

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
HEXACHLOROBENZENE-C13		ND	UG/A	30.0
C310 N-NITROSODIMETHYLAMINE		ND	UG/A	30.0
PYRIDINE		ND	UG/A	60.0
2-PICOLINE		ND	UG/A	30.0
N-NITROSOMETHYLETHYLAMINE		ND	UG/A	30.0
METHYLMETHANESULFONATE		ND	UG/A	30.0
N-NITROSODIETHYLAMINE		ND	UG/A	30.0
ETHYLMETHANE SULFONATE		ND	UG/A	30.0
PENTACHLOROETHANE		ND	UG/A	30.0
C320 ANILINE		ND	UG/A	30.0
C315 PHENOL		ND	UG/A	30.0
C325 BIS(2-CHLOROETHYL)ETHER		ND	UG/A	30.0
C330 2-CHLOROPHENOL		ND	UG/A	30.0
C335 1,3-DICHLOROBENZENE		ND	UG/A	30.0
C340 1,4-DICHLOROBENZENE		ND	UG/A	30.0
C345 BENZYL ALCOHOL		ND	UG/A	30.0
C350 1,2-DICHLOROBENZENE		ND	UG/A	30.0
C355 2-METHYLPHENOL		ND	UG/A	30.0
C360 2,2'-OXYBIS(1-CLPROPAN)		ND	UG/A	30.0
C361 ACETOPHENONE		ND	UG/A	30.0
N-NITROSPYRROLIDINE		ND	UG/A	30.0
N-NITROSOMORPHOLINE		ND	UG/A	30.0
3-METHYL PHENOL		ND	UG/A	30.0
C365 4-METHYLPHENOL		ND	UG/A	30.0
C370 N-NITROSO-DI-N-PROPYLAM		ND	UG/A	30.0
O-TOLUIDINE		ND	UG/A	30.0
C375 HEXACHLOROETHANE		ND	UG/A	30.0
C410 NITROBENZENE		ND	UG/A	30.0
N-NITROSOPIPERIDINE		ND	UG/A	30.0

Reviewed by: 149/17/96

1252

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068109
Std Id: ST16980831

Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 22:58
Analyst: DAT Instrument ID: F16 Run Factor: 3.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
=====				
C415 ISOPHORONE		ND	UG/A	30.0
C420 2-NITROPHENOL		ND	UG/A	30.0
C425 2,4-DIMETHYLPHENOL		ND	UG/A	30.0
C435 BIS(2-CHLOROETHOXY)METH		ND	UG/A	30.0
C440 2,4-DICHLOROPHENOL		ND	UG/A	30.0
C430 BENZOIC ACID		ND	UG/A	150.0
AA-DIMETHYLPHENETHYLAMINE		ND	UG/A	30.0
C445 1,2,4-TRICHLOROBENZENE		ND	UG/A	30.0
C450 NAPHTHALENE		ND	UG/A	30.0
C455 4-CHLOROANALINE		ND	UG/A	30.0
2,6-DICHLOROPHENOL		ND	UG/A	30.0
HEXACHLOROPROPENE		ND	UG/A	30.0
C460 HEXACHLOROBUTADIENE		ND	UG/A	30.0
P-PHENYLENE DIAMINE		ND	UG/A	30.0
N-NITROSODI-N-BUTYLAMINE		ND	UG/A	30.0
C465 4-CHLORO-3-METHYLPHENO		ND	UG/A	30.0
SAFROLE		ND	UG/A	30.0
C470 2-METHYLNAPHTHALENE		ND	UG/A	30.0
1,2,4,5-TETRACHLOROBENZENE		ND	UG/A	30.0
ISOSAFROLE (#1)		ND	UG/A	60.0
C510 HEXACHLOROCYCLOPENTADI		ND	UG/A	30.0
C515 2,4,6-TRICHLOROPHENOL		ND	UG/A	30.0
C520 2,4,5-TRICHLOROPHENOL		ND	UG/A	30.0
ISOSAFROLE (#2)		ND	UG/A	60.0
C525 2-CHLORONAPHTHALENE		ND	UG/A	30.0
1-CHLORONAPHTHALENE		ND	UG/A	15.0
C530 2-NITROANILINE		ND	UG/A	150.0
1,4-NAPHTHOQUINONE		ND	UG/A	30.0
C535 DIMETHYLPHTHALATE		ND	UG/A	30.0
1,3-DINITROBENZENE		ND	UG/A	30.0
C540 ACENAPHTHYLENE		ND	UG/A	30.0
C543 2,6-DINITROTOLUENE		ND	UG/A	30.0
C545 3-NITROANILINE		ND	UG/A	150.0
C550 ACENAPHTHENE		ND	UG/A	30.0
C555 2,4-DINITROPHENOL		ND	UG/A	150.0
C565 DIBENZOFURAN		ND	UG/A	30.0
C560 4-NITROPHENOL		ND	UG/A	150.0
PENTACHLOROBENZENE		ND	UG/A	30.0
C570 2,4-DINITROTOLUENE		ND	UG/A	30.0
1-NAPHTHYLAMINE		ND	UG/A	30.0
2-NAPHTHYLAMINE		ND	UG/A	30.0
2,3,4,6-TETRACHLOROPHENOL		ND	UG/A	60.0
C580 DIETHYLPHTHALATE		ND	UG/A	30.0
C590 FLUORENE		ND	UG/A	30.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068109
Std Id: ST16980831

Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 22:58
Analyst: DAT Instrument ID: F16 Run Factor: 3.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit

C585 4-CHLOROPHENYL-PHENYLE		ND	UG/A	30.0
5-NITRO-O-TOLUIDINE		ND	UG/A	30.0
C595 4-NITROANALINE		ND	UG/A	150.0
C610 4,6-DINITRO-2-METHYLPH		ND	UG/A	150.0
C615 N-NITROSODIPHENYLAMINE		ND	UG/A	30.0
C620 AZOBENZENE		ND	UG/A	30.0
SYM-TRINITROBENZENE		ND	UG/A	30.0
C625 4-BROMOPHENYL-PHENYLET		ND	UG/A	30.0
PHENACETIN		ND	UG/A	30.0
DIALATE 234		ND	UG/A	30.0
C630 HEXACHLOROBENZENE		ND	UG/A	30.0
4-AMINOBIIPHENYL		ND	UG/A	30.0
C635 PENTACHLOROPHENOL		ND	UG/A	150.0
PRONAMIDE		ND	UG/A	30.0
PENTACHLORONITROBENZENE		ND	UG/A	150.0
C640 PHENANTHRENE		ND	UG/A	30.0
C645 ANTHRACENE		ND	UG/A	30.0
2SECBUTYL-4,6-DINITROPHENOL		ND	UG/A	30.0
C647 CARBAZOLE		ND	UG/A	30.0
C650 DI-N-BUTYLPHTHALATE		ND	UG/A	30.0
4-NITROQUINOLINE-1-OXIDE		ND	UG/A	30.0
METHAPYRILENE		ND	UG/A	30.0
ISODRIN		ND	UG/A	30.0
C655 FLUORANTHENE		ND	UG/A	30.0
CHLOROBENZILATE		ND	UG/A	30.0
C710 BENZIDINE		ND	UG/A	300.0
C715 PYRENE		ND	UG/A	30.0
ARAMITE (#1)		ND	UG/A	30.0
ARAMITE (#2)		ND	UG/A	30.0
P-DIMETHYLAMINOAZOBENZENE		ND	UG/A	30.0
3,3'-DIMETHYLBENZIDINE		ND	UG/A	30.0
KEPONE		ND	UG/A	150.0
C720 BUTYLBENZYLPHTHALATE		ND	UG/A	30.0
2-ACETYLAMINOFLUORENE		ND	UG/A	30.0
C730 BENZO(A)ANTHRACENE		ND	UG/A	30.0
C725 3,3'-DICHLOROBENZIDINE		ND	UG/A	60.0
C740 CHRYSENE		ND	UG/A	30.0
C745 BIS(2-ETHYLHEXYL)PHTHA		ND	UG/A	30.0
3-METHYLCHOLANTHRENE		ND	UG/A	30.0
C760 DI-N-OCTYL PHTHALATE		ND	UG/A	30.0
C765 BENZO(B)FLUORANTHENE		ND	UG/A	30.0
7,12-DIMETHYLBENZANTHRACENE		ND	UG/A	30.0
C770 BENZO(K)FLUORANTHENE		ND	UG/A	30.0
HEXACHLOROPHENE		ND	UG/A	30.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

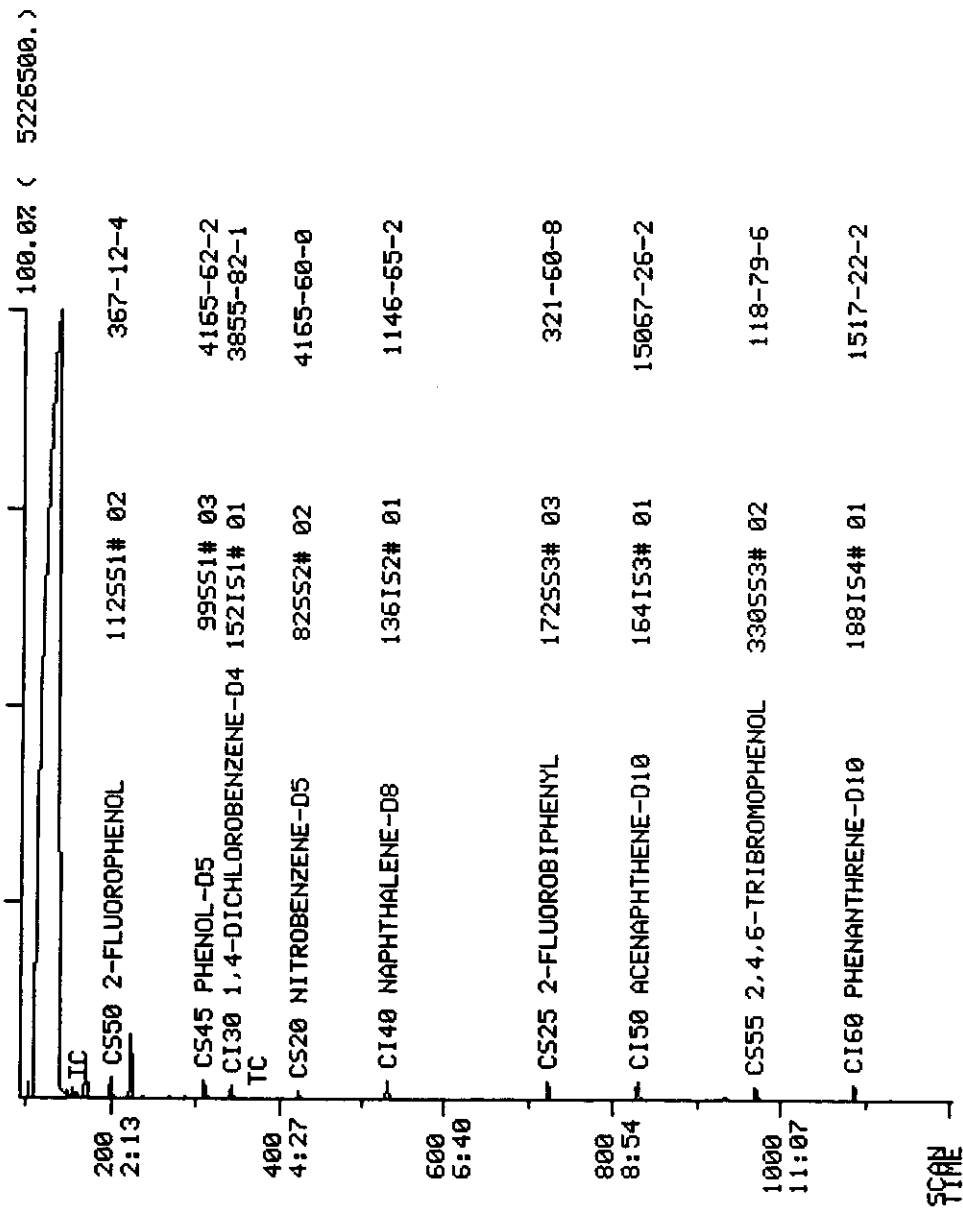
Data File: 30068109
Std Id: ST16980831

Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 22:58
Analyst: DAT Instrument ID: F16 Run Factor: 3.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

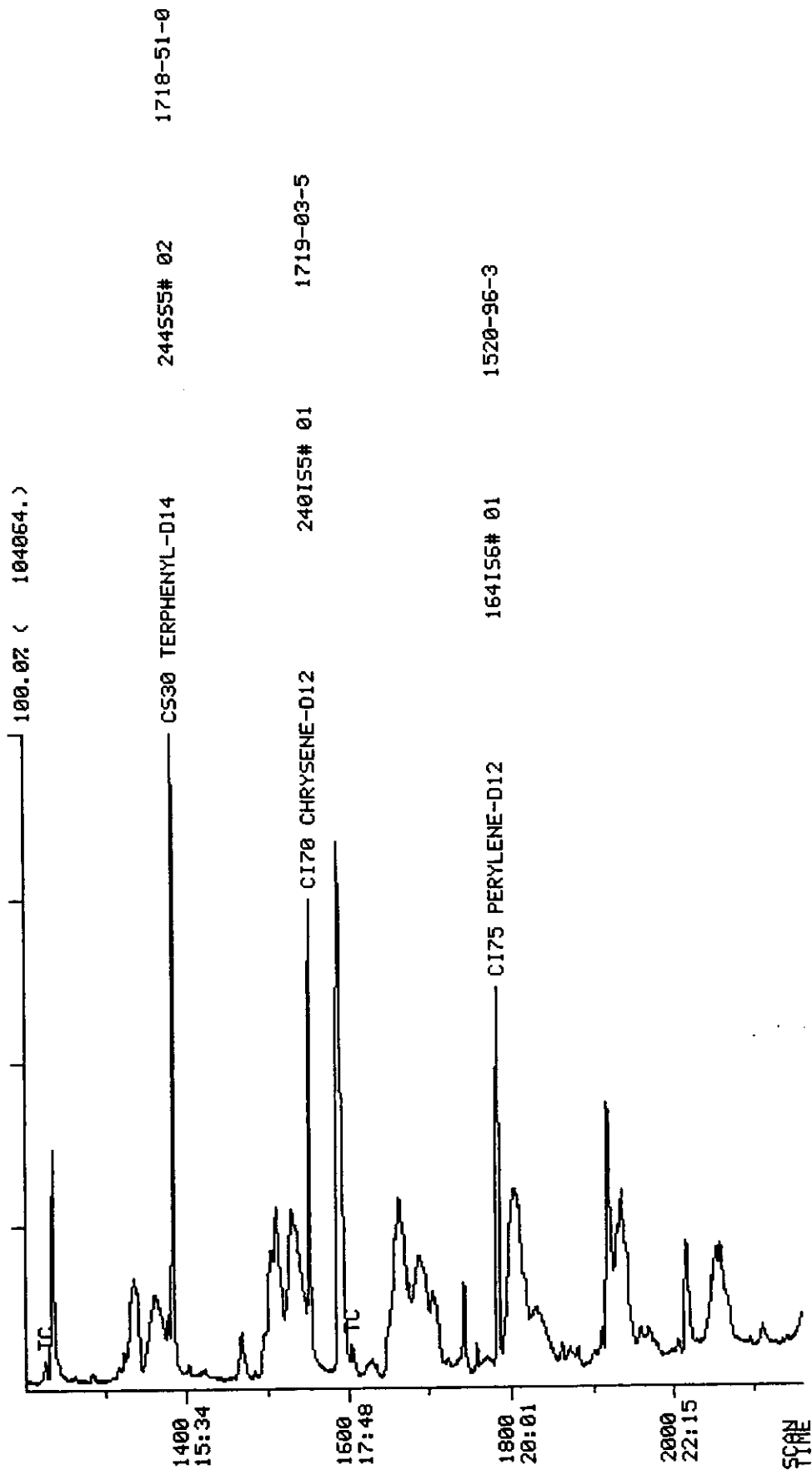
Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting
				Limit
=====				
C775 BENZO(A)PYRENE		ND	UG/A	30.0
C780 INDENO(1,2,3-CD)PYRENE		ND	UG/A	30.0
C785 DIBENZ(A,H)ANTHRACENE		ND	UG/A	30.0
C790 BENZO(G,H,I)PERYLENE		ND	UG/A	30.0

DATA FROM FILE: 30068109 SCANS 93 TO 1203 ACQUIRED: 08/31/98 22:58:00
 SAMPLE: 5-MMS-RB 1/35A/1ML CALI: 30068109 #3
 COND.: UG/ML *1ML *1002/1002 *(NA/NA) 1/35A NA M INST. ID: F16



DATA FROM FILE: 30000103
CALI: 30068109 #3
INST: ID: F16
SAMPLE: S-MM5-RB 1/35A/1ML
CONDS.: UG/ML *1ML *100%/100% *(NA/NA >1/35A NA M



ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 30068109

Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16

Analyst: DAT

Instrument Id: F16

Analyzed: 08/31/98 22:58

Compounds with amounts less than 0.20 reported as NOT FOUND

Library		Units: UG/ML				
No Entry	Name	Mass Meth	Scan Ref	Area RRF(L)	Amount	
1 S1#	1 C130 1,4-DICHLOROBENZENE	152 A BB	340 1	36331. 1.000	40.000	
2 S2#	1 C140 NAPHTHALENE-D8	136 A BB	529 2	137829. 1.000	40.000	
3 S3#	1 C150 ACENAPHTHENE-D10	164 A BB	827 3	74485. 1.000	40.000	
4 S4#	1 C160 PHENANTHRENE-D10	188 A BB	1085 4	122676. 1.000	40.000	
5 S5#	1 C170 CHRYSENE-D12	240 A BB	1551 5	71172. 1.000	40.000	
6 S6#	1 C175 PERYLENE-D12	264 A BB	1782 6	56685. 1.000	40.000	
7 S2#	2 CS20 NITROBENZENE-D5	82 A BB	421 2	49520. 0.470	30.606	
8 S3#	3 CS25 2-FLUOROBIPHENYL	172 A BB	722 3	98741. 1.234	42.961	
9 S5#	2 CS30 TERPHENYL-D14	244 A BB	1383 5	86030. 0.995	48.582	
10 S1#	3 CS45 PHENOL-D5	99 A BB	308 1	123023. 2.025	66.871	
11 S1#	2 CS50 2-FLUOROPHENOL	112 A BB	198 1	77514. 1.368	62.374	
12 S3#	2 CS55 2,4,6-TRIBROMOPHENO	330 A BB	968 3	36995. 0.236	84.305	
13 S4#	4 HEXACHLOROBENZENE-C13	294	4 NOT FOUND			
14 S1#	15 C310 N-NITROSODIMETHYLAM	74	1 NOT FOUND			
15 S1#	20 PYRIDINE	79	1 NOT FOUND			
16 S1#	30 2-PICOLINE	93 A BB	146 1	449. 1.565	0.316	
17 S1#	40 N-NITROSOMETHYLETHYLAMIN	42 A VB	159 1	4136. 0.811	5.614	
18 S1#	60 METHYLMETHANESULFONATE	80	1 NOT FOUND			
19 S1#	70 N-NITROSODIETHYLAMINE	102	1 NOT FOUND			
20 S1#	85 ETHYLMETHANE SULFONATE	79	1 NOT FOUND			
21 S1#	95 PENTACHLOROETHANE	117	1 NOT FOUND			
22 S1#	100 C320 ANILINE	93	1 NOT FOUND			
23 S1#	105 C315 PHENOL	94 A BB	309 1	486. 1.968	0.272	
24 S1#	110 C325 BIS(2-CHLOROETHYL)E	93	1 NOT FOUND			
25 S1#	115 C330 2-CHLOROPHENOL	128	1 NOT FOUND			
26 S1#	125 C335 1,3-DICHLOROBENZENE	146	1 NOT FOUND			
27 S1#	130 C340 1,4-DICHLOROBENZENE	146	1 NOT FOUND			
28 S1#	145 C345 BENZYL ALCOHOL	108 A BB	372 1	2329. 0.854	3.001	
29 S1#	150 C350 1,2-DICHLOROBENZENE	146	1 NOT FOUND			
30 S1#	160 C355 2-METHYLPHENOL	108	1 NOT FOUND			
31 S1#	165 C360 2,2'-OXYBIS(1-CLPRO	45	1 NOT FOUND			
32 S1#	170 C361 ACETOPHENONE	105	1 NOT FOUND			
33 S1#	175 N-NITROSOPYRROLIDINE	100	1 NOT FOUND			
34 S1#	180 N-NITROSOMORPHOLINE	56	1 NOT FOUND			
35 S1#	182 3-METHYL PHENOL	108 A BB	421 1	568. 2.252	0.278	
36 S1#	185 C365 4-METHYLPHENOL	108	1 NOT FOUND			
37 S1#	190 C370 N-NITROSO-DI-N-PROP	70	1 NOT FOUND			
38 S1#	195 O-TOLUIDINE	106	1 NOT FOUND			
39 S1#	200 C375 HEXACHLOROETHANE	117	1 NOT FOUND			
40 S2#	10 C410 NITROBENZENE	77	2 NOT FOUND			
41 S2#	15 N-NITROSOPIPERIDINE	42	2 NOT FOUND			
42 S2#	20 C415 ISOPHORONE	82	2 NOT FOUND			
43 S2#	25 C420 2-NITROPHENOL	139	2 NOT FOUND			
44 S2#	30 C425 2,4-DIMETHYLPHENOL	107	2 NOT FOUND			
45 S2#	35 C435 BIS(2-CHLOROETHOXY)	93	2 NOT FOUND			

46 S2# 40 C440 2,4-DICHLOROPHENOL	162	2	NOT FOUND
47 S2# 45 C430 BENZOIC ACID	122	2	NOT FOUND
48 S2# 50 AA-DIMETHYLPHENETHYLAMIN	58	2	NOT FOUND
49 S2# 55 C445 1,2,4-TRICHLOROBENZ	180	2	NOT FOUND

50 S2# 60 C450 NAPHTHALENE	128	2	NOT FOUND
51 S2# 80 C455 4-CHLOROANALINE	127	2	NOT FOUND
52 S2# 85 2,6-DICHLOROPHENOL	162	2	NOT FOUND
53 S2# 90 HEXACHLOROPROPENE	213	2	NOT FOUND
54 S2# 95 C460 HEXACHLOROBUTADIENE	225	2	NOT FOUND
55 S2#115 P-PHENYLENE DIAMINE	108	2	NOT FOUND
56 S2#120 N-NITROSODI-N-BUTYLAMINE	84	2	NOT FOUND
57 S2#130 C465 4-CHLORO-3-METHYLPH	107	2	NOT FOUND
58 S2#140 SAFROLE	162	2	NOT FOUND
59 S2#145 C470 2-METHYLNAPHTHALENE	142	2	NOT FOUND
60 S3# 10 1,2,4,5-TETRACHLOROBEZENE	214	3	NOT FOUND
61 S3# 15 ISOSAFROLE (#1)	162	3	NOT FOUND
62 S3# 20 C510 HEXACHLOROCYCLOPENT	237	3	NOT FOUND
63 S3# 25 C515 2,4,6-TRICHLOROPHEN	196	3	NOT FOUND
64 S3# 30 C520 2,4,5-TRICHLOROPHEN	196	3	NOT FOUND
65 S3# 35 ISOSAFROLE (#2)	104	3	NOT FOUND
66 S3# 40 C525 2-CHLORONAPHTHALENE	162	3	NOT FOUND
67 S3# 42 1-CHLORONAPHTHALEN	162	3	NOT FOUND
68 S3# 45 C530 2-NITROANALINE	65	3	NOT FOUND
69 S3# 50 1,4-NAPHTHOQUINONE	158	3	NOT FOUND
70 S3# 55 C535 DIMETHYLPHTHALATE	163	3	NOT FOUND
71 S3# 60 1,3-DINITROBENZENE	168	3	NOT FOUND
72 S3# 65 C540 ACENAPHTHYLENE	152	3	NOT FOUND
73 S3# 70 C543 2,6-DINITROTOLUENE	165	3	NOT FOUND
74 S3# 75 C545 3-NITROANILINE	138	3	NOT FOUND
75 S3# 80 C550 ACENAPHTHENE	153	3	NOT FOUND
76 S3# 85 C555 2,4-DINITROPHENOL	184	3	NOT FOUND
77 S3# 90 C565 DIBENZOFURAN	168	3	NOT FOUND
78 S3# 95 C560 4-NITROPHENOL	109	3	NOT FOUND
79 S3#100 PENTACHLOROBENZENE	250	3	NOT FOUND
80 S3#105 C570 2,4-DINITROTOLUENE	165	3	NOT FOUND
81 S3#110 1-NAPHTHYLAMINE	143	3	NOT FOUND
82 S3#115 2-NAPHTHYLAMINE	143	3	NOT FOUND
83 S3#120 2,3,4,6-TETRACHLOROPHENO	232	3	NOT FOUND
84 S3#130 C580 DIETHYLPHTHALATE	149	3	NOT FOUND
85 S3#135 C590 FLUORENE	166	3	NOT FOUND
86 S3#140 C585 4-CHLOROPHENYL-PHEN	204	3	NOT FOUND
87 S3#145 5-NITRO-O-TOLUIDINE	152	3	NOT FOUND
88 S3#150 C595 4-NITROANALINE	138	3	NOT FOUND
89 S4# 10 C610 4,6-DINITRO-2-METHY	198	4	NOT FOUND
90 S4# 15 C615 N-NITROSODIPHENYLAM	169	4	NOT FOUND
91 S4# 20 C620 AZOBENZENE	77	4	NOT FOUND
92 S4# 25 SYM-TRINITROBENZENE	75	4	NOT FOUND
93 S4# 30 C625 4-BROMOPHENYL-PHENY	248	4	NOT FOUND
94 S4# 35 PHENACETIN	108	4	NOT FOUND
95 S4# 37 DIALATE	234	4	NOT FOUND
96 S4# 40 C630 HEXACHLOROBENZENE	284	4	NOT FOUND
97 S4# 45 4-AMINOBIIPHENYL	169	4	NOT FOUND
98 S4# 50 C635 PENTACHLOROPHENOL	266	4	NOT FOUND
99 S4# 55 PRONAMIDE	173	4	NOT FOUND
100 S4# 60 PENTACHLORONITROBENZENE	237	4	NOT FOUND
101 S4# 65 C640 PHENANTHRENE	178	4	NOT FOUND
102 S4# 70 C645 ANTHRACENE	178	4	NOT FOUND
103 S4# 75 2SECBUTYL-4,6-DINITROPHE	211	4	NOT FOUND
104 S4# 80 C647 CARBAZOLE	167	4	NOT FOUND
105 S4# 85 C650 DI-N-BUTYLPHTHALATE	149 A 88 1226 4 4688. 1.247 1.226		
106 S4#100 4-NITROQUINOLINE-1-OXIDE	190	4	NOT FOUND
107 S4#105 METHAPYRILENE	58	4	NOT FOUND
108 S4#106 ISODRIN	193	4	NOT FOUND
109 S4#110 C655 FLUORANTHENE	202	4	NOT FOUND
110 S4#120 CHLOROBENZILATE	139	4	NOT FOUND

111 S5# 10 C710 BENZIDINE	184	5	NOT FOUND		
112 S5# 15 C715 PYRENE	202	5	NOT FOUND		
113 S5# 20 ARAMITE (#1)	185	5	NOT FOUND		
114 S5# 25 ARAMITE (#2)	185	5	NOT FOUND		
115 S5# 30 P-DIMETHYLAMINOAZOBENZEN	120	5	NOT FOUND		
116 S5# 35 3,3'-DIMETHYLBENZIDINE	212	5	NOT FOUND		
117 S5# 37 KEPONE	272	5	NOT FOUND		
118 S5# 40 C720 BUTYLBENZYLPHTHALAT	149	5	NOT FOUND		
119 S5# 45 2-ACETYLAMINOFLUORENE	181	5	NOT FOUND		
120 S5# 50 C730 BENZO(A)ANTHRACENE	228	5	NOT FOUND		
121 S5# 55 C725 3,3'-DICHLOROBENZID	252	5	NOT FOUND		
122 S5# 60 C740 CHRYSENE	228	5	NOT FOUND		
123 S5# 65 C745 BIS(2-ETHYLHEXYL)PH	149 A BB 1603	5		3310. 0.980	1.899
124 S5# 85 3-METHYLCHOLANTHRENE	268	5	NOT FOUND		
125 S6# 10 C760 DI-N-OCTYL PHTHALAT	149	6	NOT FOUND		
126 S6# 15 C765 BENZO(B)FLUORANTHEN	252	6	NOT FOUND		
127 S6# 20 7,12-DIMETHYLBENZANTHRAC	256	6	NOT FOUND		
128 S6# 25 C770 BENZO(K)FLUORANTHEN	252	6	NOT FOUND		
129 S6# 30 HEXACHLOROPHENE	196	6	NOT FOUND		
130 S6# 35 C775 BENZO(A)PYRENE	252	6	NOT FOUND		
131 S6# 55 C780 INDENO(1,2,3-CD)PYR	276	6	NOT FOUND		
132 S6# 60 C785 DIBENZ(A,H)ANTHRACE	278	6	NOT FOUND		
133 S6# 65 C790 BENZO(G,H,I)PERYLEN	276	6	NOT FOUND		

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.=+200		4.28	200864.=+200		6.40	108695.=+200		9.71
Lower Limit	14324.=+ 50		3.28	50216.=+ 50		5.40	27174.=+ 50		8.71
Filename									
1 30068109	36331.= 126		3.78	137829.= 137		5.88	74485.= 137		9.20

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.=+200		12.58	124578.=+200		17.76	101500.=+200		20.33
Lower Limit	49260.=+ 50		11.58	31145.=+ 50		16.76	25375.=+ 50		19.33
Filename									
1 30068109	122676.= 124		12.07	71172.= 114		17.25	56685.= 111		19.82

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

Data Reduced by: 2/1/98 Date: 2/1/98
Data Reviewed by: 2/1/98 Date: 2/1/98

Data File: 30068109

QUANTERRA GC/MS TIC REPORT (Part 1)

Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
Analyst: DAT Date Analyzed: 08/31/98 22:58
Run Factor: 3.00

Concentration

in Sample

SCAN (UG/A) CAS #
169 270. 123-42-2
2-PENTANONE, 4-HYDROXY-4-METHYL-

2 222 400. 111-84-2
NONANE or isomer

X 285 25. 100-52-7
BENZALDEHYDE

X 932 17. 74381-40-1
PROPANOIC ACID, 2-METHYL-, 1-(1,1-DIMETHYLETHYL)-2-METHYL-1,3-PROPANEDIOL

5 1236 51. 57-10-3
HEXADECANOIC ACID

6 1333 77. 00-00-0
UNKNOWN

7 1358 71. 00-00-0
UNKNOWN

X 1466 23. 2432-89-5
DECANEDIOIC ACID, DIDECYL ESTER

9 1502 42. 00-00-0
UNKNOWN

10 1509 63. 00-00-0
UNKNOWN

11 1529 99. 00-00-0
UNKNOWN

5700

12 1587 250. 74685-30-6
5-EICOSENE, (E)- *or isomer*

13 1661 94. 00-00-0
UNKNOWN

5700

14 1687 63. 00-00-0
UNKNOWN

15 1706 27. ~~293-17-0~~
~~CYCLOTETRADECANE~~

alkane 5746400

16 1741 35. 00-00-0
UNKNOWN

5700

17 1801 140. 00-00-0
UNKNOWN

18 1834 14. 00-00-0
UNKNOWN

19 1916 110. ~~1653-33-4~~
~~L-TETRADECANOL~~

20 1934 81. 00-00-0
UNKNOWN

11/1/88

Use

21 1940 26. ✓ 00-00-0
UNKNOWN

22 1966 21. 00-00-0
UNKNOWN

23 2014 57. 74685-29-3
9-EICOSENE, (E)- *or Rosen*

24 2051 61. 00-00-0
UNKNOWN

5700



25 2057 72. 00-00-0
UNKNOWN

DATA FILE: 30068109

QUANTERRA GC/MS TIC REPORT (Part 2)

CONCENTRATION = AREA(TIC)*CONC(1S)/AREA(1S)

			INT.				AMOUNT			
#	FIT	PURITY	STD.	RT	RRT	AREA	HEIGHT	(UG/ML)	LIB	LIB #
1	957	921	1	1:52	0.319	648508.	251136.	90.815	NB	3241.
2	986	940	1	2:28	0.420	946332.	411648.	132.522	NB	5159.
3	966	921	1	3:10	0.539	59934.	18879.	8.393	NB	2017.
4	918	803	2	10:21	1.127	49207.	16122.	5.755	NB	40501.
5	976	775	3	13:44	1.139	139728.	35968.	16.915	NB	35182.
6	891	556	4	14:49	0.859	135216.	12976.	25.735	UK	1.
7	763	578	4	15:06	0.876	124360.	9168.	23.669	UK	1.
8	957	689	4	16:18	0.945	39434.	6486.	7.505	NB	58380.
9	760	383	4	16:42	0.968	73824.	12016.	14.050	UK	1.
10	796	590	4	16:47	0.973	110512.	17856.	21.033	UK	1.
11	931	516	4	17:00	0.986	174176.	15312.	33.150	UK	1.
12	986	810	4	17:39	1.023	437632.	79488.	83.292	NB	39516.
13	925	476	4	18:28	1.071	164160.	15600.	31.244	UK	1.
14	800	573	5	18:45	0.947	97552.	7632.	20.916	UK	1.
15	871	684	5	18:58	0.957	41976.	5648.	9.000	NB	21960.
16	866	561	5	19:21	0.977	55048.	13486.	11.803	UK	1.
17	876	591	5	20:01	1.011	221408.	17472.	47.472	UK	1.
18	924	556	5	20:23	1.029	21952.	2816.	4.707	UK	1.
19	980	781	5	21:18	1.075	175464.	34566.	37.621	NB	26416.
20	775	478	5	21:30	1.085	125664.	16368.	26.943	UK	1.
21	695	441	5	21:34	1.089	41056.	9312.	8.803	UK	1.
22	789	391	5	21:52	1.103	32442.	3297.	6.956	UK	1.
23	949	729	5	22:24	1.130	89076.	16549.	19.099	NB	39515.
24	922	471	5	22:48	1.151	94560.	12016.	20.274	UK	1.
25	749	477	5	22:52	1.154	111664.	13104.	23.942	UK	1.

Library Search Data: 30068109 # 169 Base m/z: 43
 08/31/98 22:58:00 + 1:53 Cali: 30068109 # 3 RIC: 229120.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

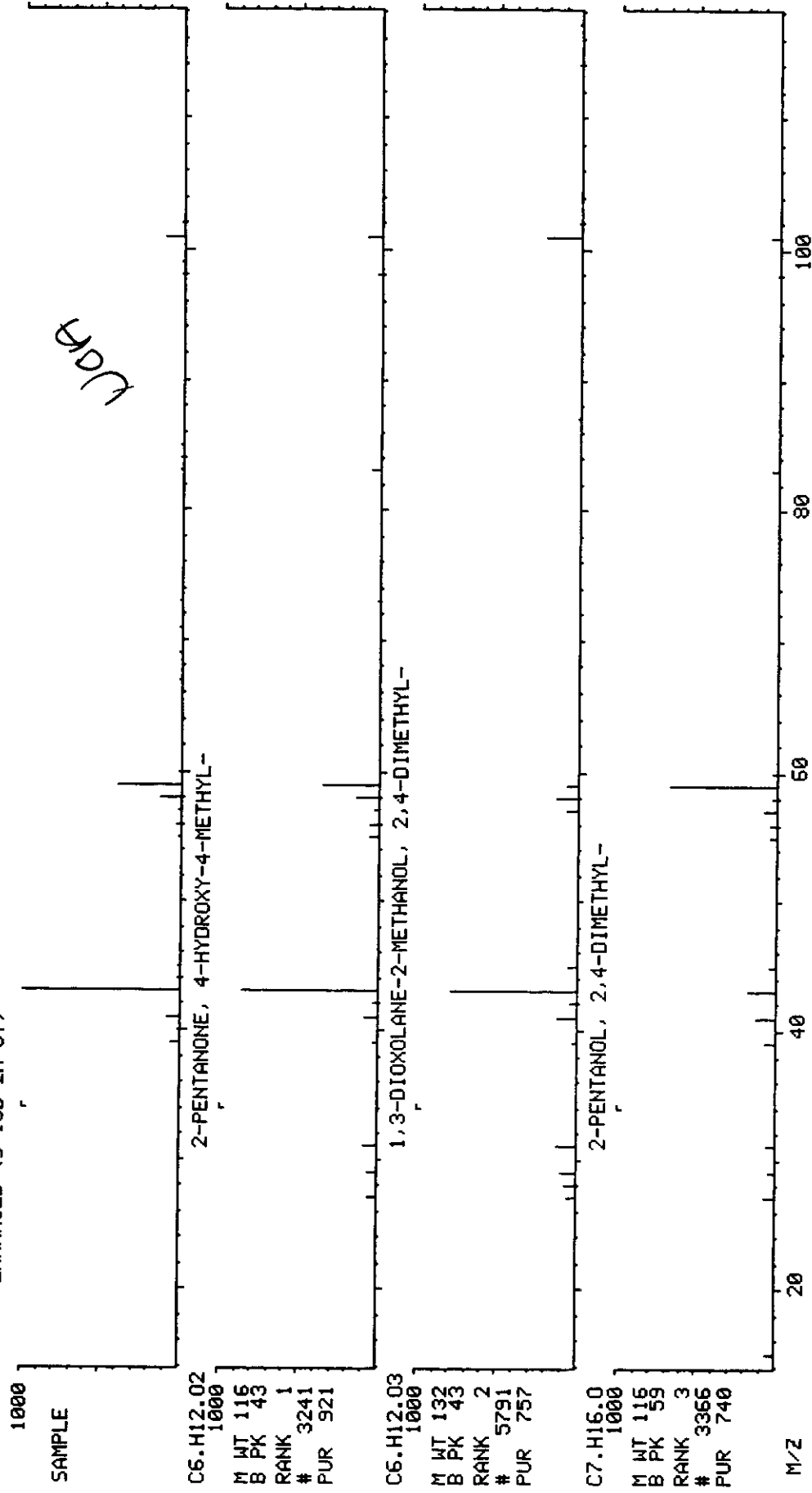
62231 spectra in LIBRARYNB searched for maximum PURITY
 630 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 3241 2-PENTANONE, 4-HYDROXY-4-METHYL-
 2 5791 1,3-DIOXOLANE-2-METHANOL, 2,4-DIMETHYL-
 3 3366 2-PENTANOL, 2,4-DIMETHYL-
 4 3288 ACETIC ACID, 1,1-DIMETHYLETHYL ESTER
 5 919 TERT-BUTYL HYDROPEROXIDE
 6 5594 2-PROPANOL, 2-NITROSO-, ACETATE (ESTER)
 7 3349 2-HEXANOL, 2-METHYL-
 8 8432 2-HEXANONE, 3-HYDROXY-3,5-DIMETHYL-
 9 3234 OXIRANE, [(1-METHYLETHOXY)METHYL]-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H12.O2	116	43	921	957	934
2	C6.H12.O3	132	43	757	825	800
3	C7.H16.O	116	59	740	760	740
4	C6.H12.O2	116	43	722	769	735
5	C4.H10.O2	90	59	719	861	741
6	C5.H9.O3.N	131	43	706	818	796
7	C7.H16.O	116	59	701	732	701
8	C8.H16.O2	144	59	666	722	693
9	C6.H12.O2	116	43	658	703	676

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	123-42-2
2	—	—	—	—	53951-43-2
3	—	—	—	—	625-06-9
4	—	—	—	—	540-88-5
5	—	—	—	—	75-91-2
6	—	—	—	—	6931-04-0
7	—	—	—	—	625-23-0
8	—	—	—	—	6321-14-8
9	—	—	—	—	4016-14-2

INST. ID: F16
NA 2/1/35A NA M



Library Search Data: 30068109 # 222 Base m/z: 43
 08/31/98 22:58:00 + 2:28 Cali: 30068109 # 3 RIC: 312320.
 Sample: S-MMS-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 921 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	5159 NONANE
2	5151 HEPTANE, 3,4-DIMETHYL-
3	3086 HEXANE, 2,4-DIMETHYL-
4	19015 DECANE, 2,5,6-TRIMETHYL-
5	5141 HEPTANE, 2,4-DIMETHYL-
6	5154 HEXANE, 4-ETHYL-2-METHYL-
7	11607 UNDECANE
8	5160 PENTANE, 2,2,3,4-TETRAMETHYL-
9	5144 HEPTANE, 4-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H20	128	43	940	986	940
2	C9.H20	128	43	914	939	914
3	C8.H18	114	43	887	957	898
4	C13.H28	184	57	885	921	895
5	C9.H20	128	43	883	932	884
6	C9.H20	128	57	875	923	875
7	C11.H24	156	43	869	925	913
8	C9.H20	128	57	866	924	866
9	C9.H20	128	43	865	909	872

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	111-84-2
2	—	—	—	—	922-28-1
3	—	—	—	—	589-43-5
4	—	—	—	—	62108-23-0
5	—	—	—	—	2213-23-2
6	—	—	—	—	3074-75-7
7	—	—	—	—	1120-21-4
8	—	—	—	—	1186-53-4
9	—	—	—	—	2216-32-2

MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 22:58:00 + 2:28

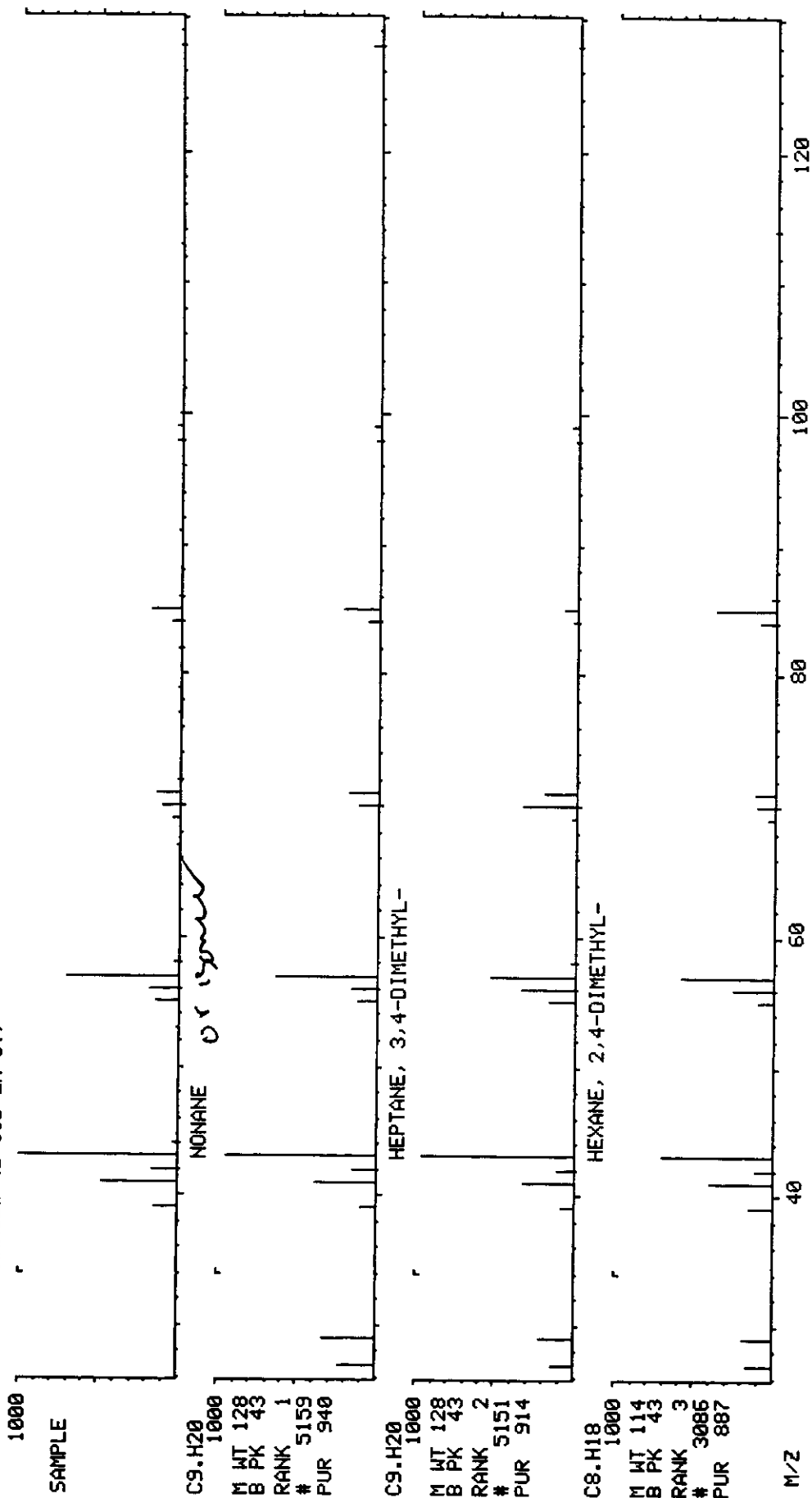
SAMPLE: S-MM5-RB 1/35A/1ML

COND.: UG/ML *1ML *1002/100% *(NA/NA) 1/35A NA M

ENHANCED (S 15B 2N 0T)

DATA: 30068109 # 222
CALI: 30068109 # 3

BASE M/Z: 43
RIC: 312320.



Library Search Data: 30068109 # 285 Base m/z: 77
 08/31/98 22:58:00 + 3:10 Cali: 30068109 # 3 RIC: 15136.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

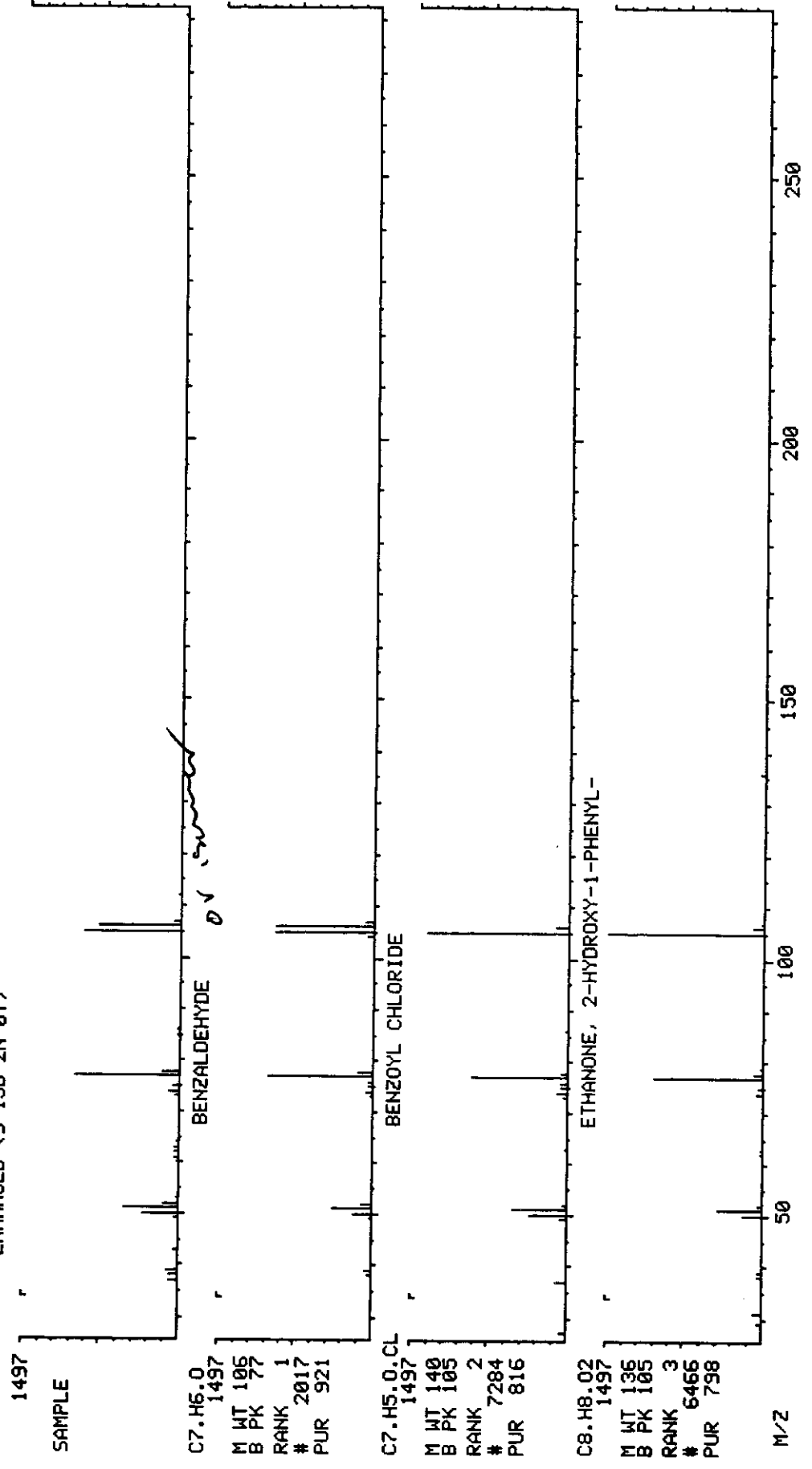
62231 spectra in LIBRARYNB searched for maximum PURITY
 352 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 2017 BENZALDEHYDE
 2 7284 BENZOYL CHLORIDE
 3 6466 ETHANONE, 2-HYDROXY-1-PHENYL-
 4 2014 2,4-HEPTADIEN-6-YNAL, (E,E)-
 5 9645 BENZOYLFORMIC ACID
 6 9261 1,2-PROPANEDIONE, 1-PHENYL-
 7 13112 BENZOYL ISOTHIOCYANATE
 8 6857 BENZENECARBOTHIOIC ACID
 9 13359 BENZENEACETIC ACID, .ALPHA.-OXO-, METHYL ESTER

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H6.O	106	77	921	966	942
2	C7.H5.O.CL	140	105	816	876	829
3	C8.H8.O2	136	105	798	839	819
4	C7.H6.O	106	105	793	838	803
5	C8.H6.O3	150	105	781	848	806
6	C9.H8.O2	148	105	775	822	801
7	C8.H5.O.N.S	163	105	773	821	789
8	C7.H6.O.S	138	77	763	846	809
9	C9.H8.O3	164	105	761	835	788

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	100-52-7
2	—	—	—	—	98-88-4
3	—	—	—	—	582-24-1
4	—	—	—	—	7200-04-6
5	—	—	—	—	611-73-4
6	—	—	—	—	579-07-7
7	—	—	—	—	532-55-8
8	—	—	—	—	98-91-9
9	—	—	—	—	15206-55-0

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 3:10
 SAMPLE: S-MM5-R8 1/35A/1ML
 CONDS.: UG/ML *1ML *1002/1002 *(NA/NA) 1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 30068109 # 285
 CALI: 30068109 # 3
 BASE M/Z: 77
 RIC: 15136.



Library Search Data: 30068109 # 932 Base m/z: 71
 08/31/98 22:58:00 + 10:22 Cali: 30068109 # 3 RIC: 14704.
 Sample: S-MM5-R8 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

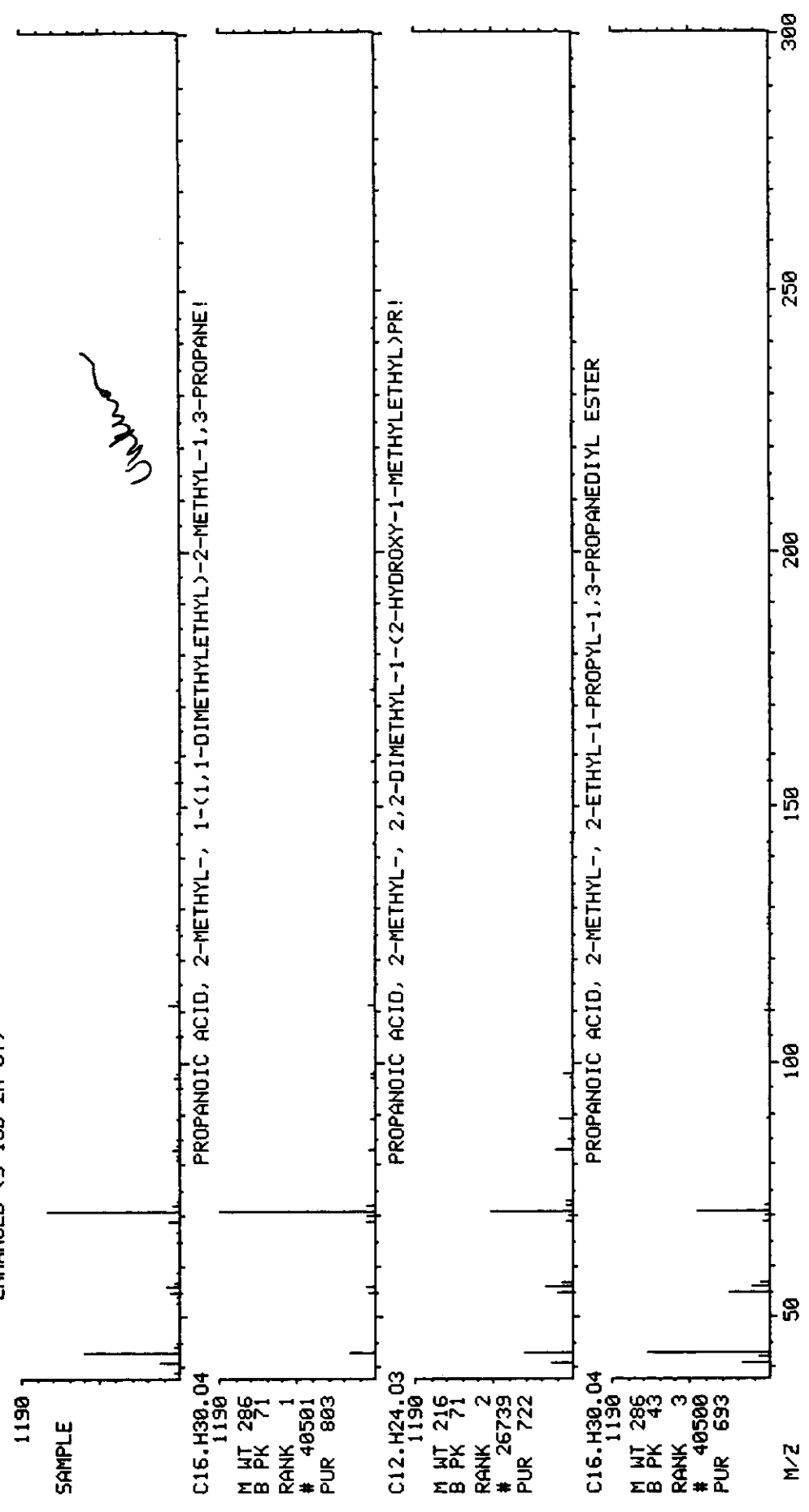
62231 spectra in LIBRARYNB searched for maximum PURITY
 552 matched at least 6 of the 16 largest peaks in the unknown

Rank In.	Name
1	40501 PROPANOIC ACID, 2-METHYL-, 1-(1,1-DIMETHYLETHYL)-2-METHYL-1,3-PROPA*
2	26739 PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(2-HYDROXY-1-METHYLETHYL)*
3	40500 PROPANOIC ACID, 2-METHYL-, 2-ETHYL-1-PROPYL-1,3-PROPANEDIYL ESTER
4	4625 1-HEXENE, 3,4,5-TRIMETHYL-
5	4556 ETHANONE, 1-(3-ETHYLCYCLOBUTYL)-
6	2720 4,4-DIMETHYL-1-HEXENE
7	4677 2,4,4-TRIMETHYL-1-HEXENE
8	15779 1,2-CYCLOHEXANEDIOL, 1-METHYL-4-(1-METHYLETHYL)-
9	14787 1-NONENE, 4,6,8-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H30.O4	286	71	803	918	825
2	C12.H24.O3	216	71	722	883	741
3	C16.H30.O4	286	43	693	841	748
4	C9.H18	126	43	608	810	687
5	C8.H14.O	126	43	593	745	622
6	C8.H16	112	71	592	789	645
7	C9.H18	126	71	556	716	656
8	C10.H20.O2	172	71	528	696	642
9	C12.H24	168	43	519	694	556

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	74381-40-1
2	---	---	---	---	74367-33-2
3	---	---	---	---	74367-30-9
4	---	---	---	---	56728-10-0
5	---	---	---	---	56335-71-8
6	---	---	---	---	1647-08-1
7	---	---	---	---	51174-12-0
8	---	---	---	---	33669-76-0
9	---	---	---	---	54410-98-9

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 10:22
 SAMPLE: 5-MMS-RB 1/35A/1ML
 COND.: UG/ML *1ML *100Z/100Z *(NA/NA) /1/35A NA M
 ENHANCED (S 150 2N 0T)
 DATA: 30068109 # 932
 CALI: 30068109 # 3
 BASE M/Z: 71
 RIC: 14704.



Library Search Data: 30068109 #1236 Base m/z: 73
 08/31/98 22:58:00 + 13:45 Cali: 30068109 # 3 RIC: 27392.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

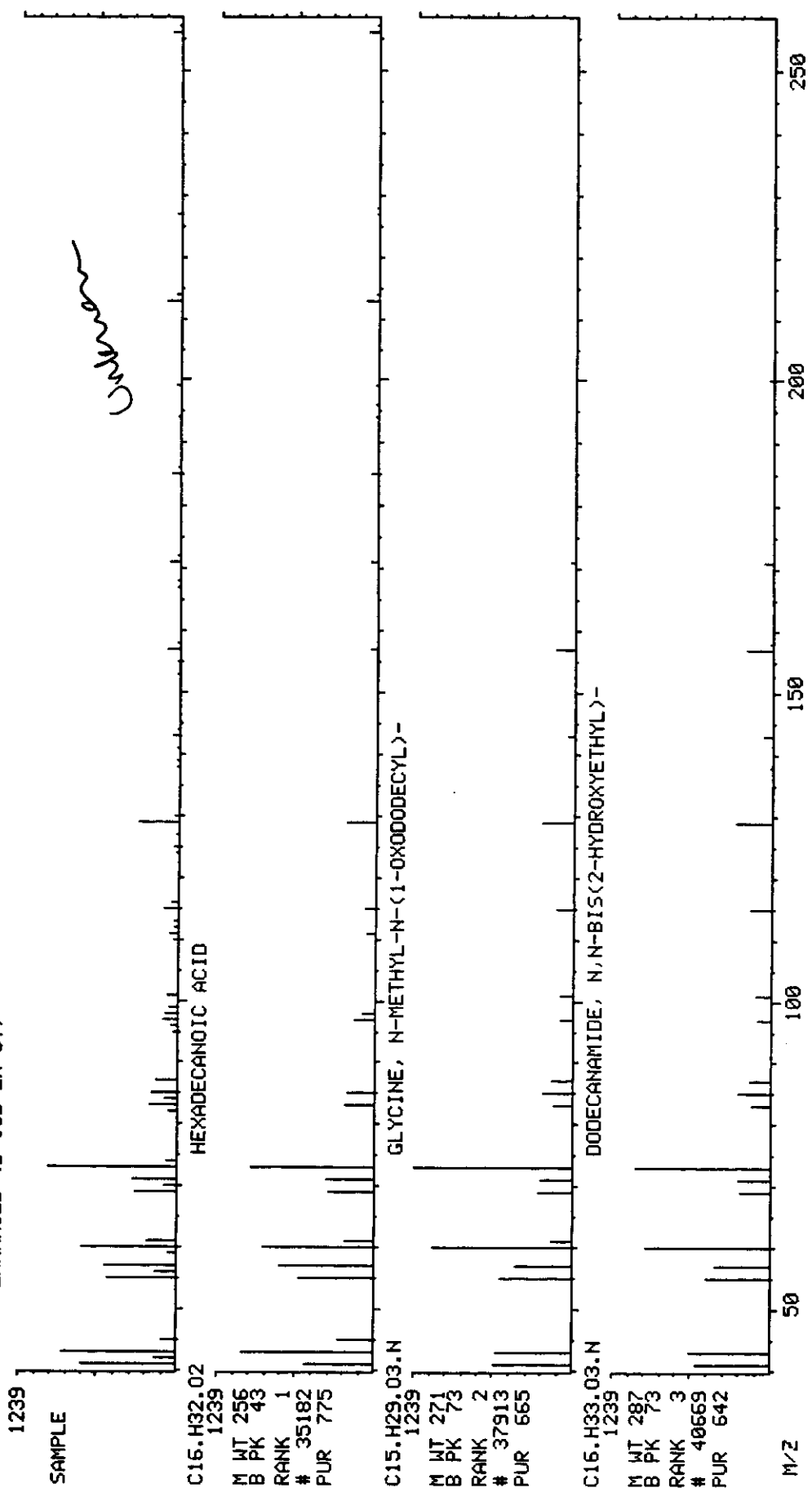
62231 spectra in LIBRARYNB searched for maximum PURITY
 750 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 35182 HEXADECANOIC ACID
 2 37913 GLYCINE, N-METHYL-N-(1-OXODODECYL)-
 3 40669 DODECANAMIDE, N,N-BIS(2-HYDROXYETHYL)-
 4 29642 TETRADECANOIC ACID
 5 26351 TRIDECANOIC ACID
 6 40184 OCTADECANOIC ACID
 7 22949 DODECANOIC ACID
 8 19469 UNDECANOIC ACID
 9 15784 DECANOIC ACID

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H32.O2	256	43	775	976	778
2	C15.H29.O3.N	271	73	665	979	665
3	C16.H33.O3.N	287	73	642	968	650
4	C14.H28.O2	228	73	623	900	671
5	C13.H26.O2	214	73	607	892	627
6	C18.H36.O2	284	43	604	768	766
7	C12.H24.O2	200	60	604	907	655
8	C11.H22.O2	186	60	597	949	603
9	C10.H20.O2	172	60	573	955	577

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	57-10-3
2	—	—	—	—	97-78-9
3	—	—	—	—	120-40-1
4	—	—	—	—	544-63-8
5	—	—	—	—	638-53-9
6	—	—	—	—	57-11-4
7	—	—	—	—	143-07-7
8	—	—	—	—	112-37-8
9	—	—	—	—	334-48-5

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 13:45
 SAMPLE: S-MM5-RB 1/35A/1ML
 COND5.: UG/ML *1ML *1002/1002 *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068109 #1236
 CALI: 30068109 # 3
 BASE M/Z: 73
 RIC: 27392.



11 22 0

Library Search Data: 30068109 #1333 Base m/z: 59
 08/31/98 22:58:00 + 14:50 Cali: 30068109 # 3 RIC: 7896.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 289 matched at least 7 of the 16 largest peaks in the unknown

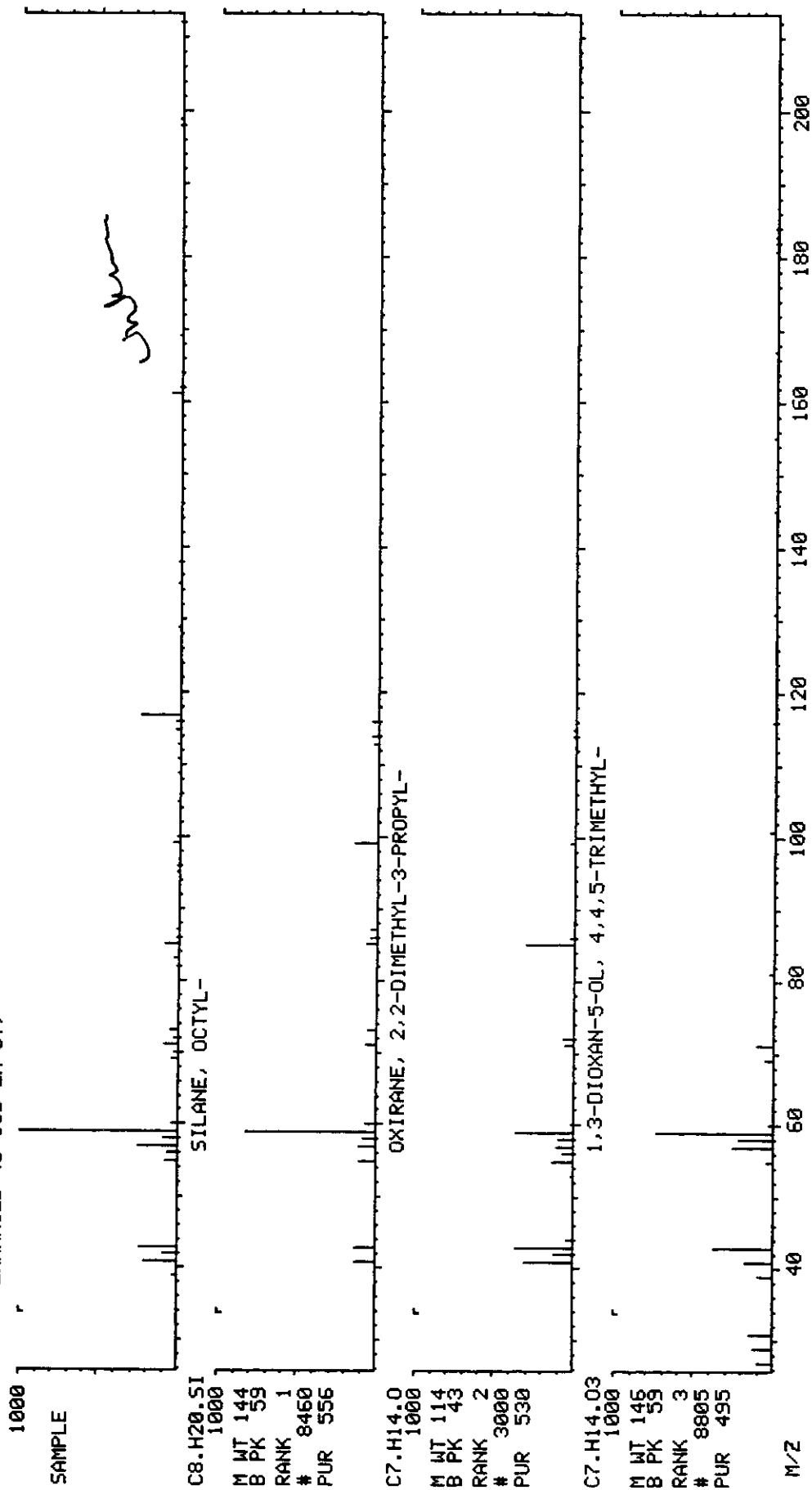
Rank	In.	Name
1	8460	SILANE, OCTYL-
2	3000	OXIRANE, 2,2-DIMETHYL-3-PROPYL-
3	8805	1,3-DIOXAN-5-OL, 4,4,5-TRIMETHYL-
4	1513	OXIRANE, 3-ETHYL-2,2-DIMETHYL-
5	19877	BUTANE, 1,1'-[(1-METHYLETHYLIDENE)BIS(OXY)]BIS-
6	8544	2-OCTANOL, 2-METHYL-
7	1576	OXIRANE, TETRAMETHYL-
8	1556	OXIRANE, 2,3-DIETHYL-
9	12073	2-METHYL-2-NONANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H20.SI	144	59	556	891	577
2	C7.H14.O	114	43	530	828	546
3	C7.H14.O3	146	59	495	896	530
4	C6.H12.O	100	59	495	853	506
5	C11.H24.O2	188	59	488	690	504
6	C9.H20.O	144	59	483	827	495
7	C6.H12.O	100	59	483	853	491
8	C6.H12.O	100	58	464	749	477
9	C10.H22.O	158	59	454	839	497

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	871-92-1
2	—	—	—	—	17612-35-0
3	—	—	—	—	54063-14-8
4	—	—	—	—	1192-22-9
5	—	—	—	—	141-72-0
6	—	—	—	—	628-44-4
7	—	—	—	—	5076-20-0
8	—	—	—	—	4468-66-0
9	—	—	—	—	10297-57-1

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 14:50
 SAMPLE: S-MMS-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30058109 #1333
 CALI: 30058109 # 3
 BASE M/Z: 59
 RIC: 7896.



Library Search Data: 30068109 #1358 Base m/z: 59
 08/31/98 22:58:00 + 15:06 Cali: 30068109 # 3 RIC: 5376.
 Sample: S-MM5-R8 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 875 matched at least 5 of the 16 largest peaks in the unknown

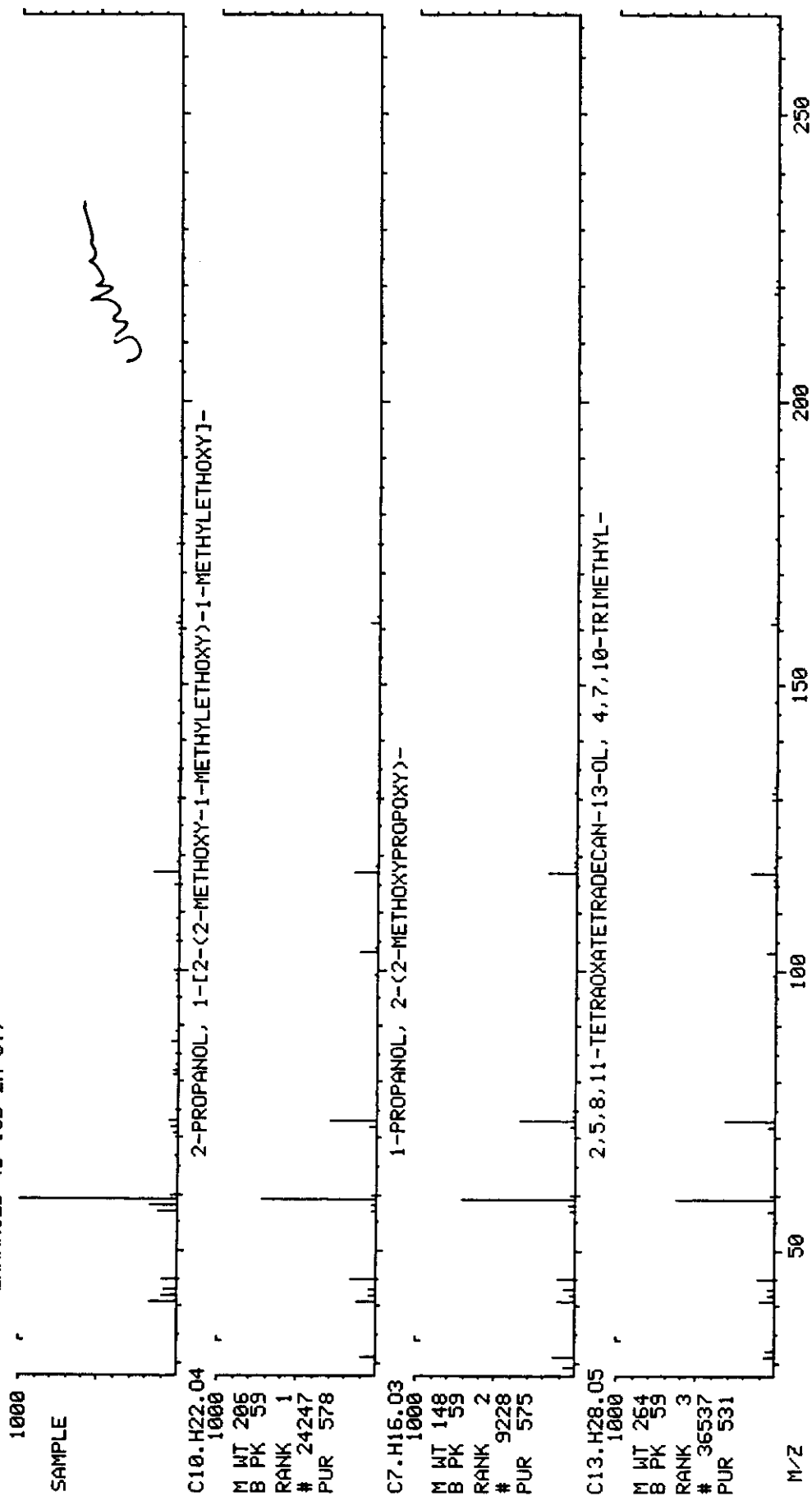
Rank	In.	Name
1	24247	2-PROPANOL, 1-(2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY)-
2	9228	1-PROPANOL, 2-(2-METHOXYPROPOXY)-
3	36537	2,5,8,11-TETRAOXATETRADECAN-13-OL, 4,7,10-TRIMETHYL-
4	5826	2-PROPANOL, 1-ISOPROPOXY-2-METHYL-
5	1775	PENTANE, 2-METHOXY-
6	5786	PROPANOIC ACID, 2-HYDROXY-2-METHYL-, ETHYL ESTER
7	1905	2-BUTANOL, 3-METHOXY-
8	9229	2-PROPANOL, 1-(2-METHOXYPROPOXY)-
9	848	3-PENTANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22.O4	206	59	578	763	646
2	C7.H16.O3	148	59	575	824	595
3	C13.H28.O5	264	59	531	753	624
4	C7.H16.O2	132	59	517	745	540
5	C6.H14.O	102	59	511	903	530
6	C6.H12.O3	132	59	510	817	539
7	C5.H12.O2	104	59	504	904	521
8	C7.H16.O3	148	59	503	841	558
9	C5.H12.O	88	59	499	916	537

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	20324-33-8
2	---	---	---	---	13588-28-8
3	---	---	---	---	20324-34-9
4	---	---	---	---	3587-75-5
5	---	---	---	---	6795-88-6
6	---	---	---	---	80-55-7
7	---	---	---	---	53778-72-6
8	---	---	---	---	13429-07-7
9	---	---	---	---	584-02-1

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 15:05
 SAMPLE: S-MMS-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100%/100% *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #1358
 CALI: 30068109 # 3
 BASE M/Z: 59
 RIC: 5376.



1280

Library Search Data: 30068109 #1466 Base m/z: 57
 08/31/98 22:58:00 + 16:18 Cali: 30068109 # 3 RIC: 5872.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

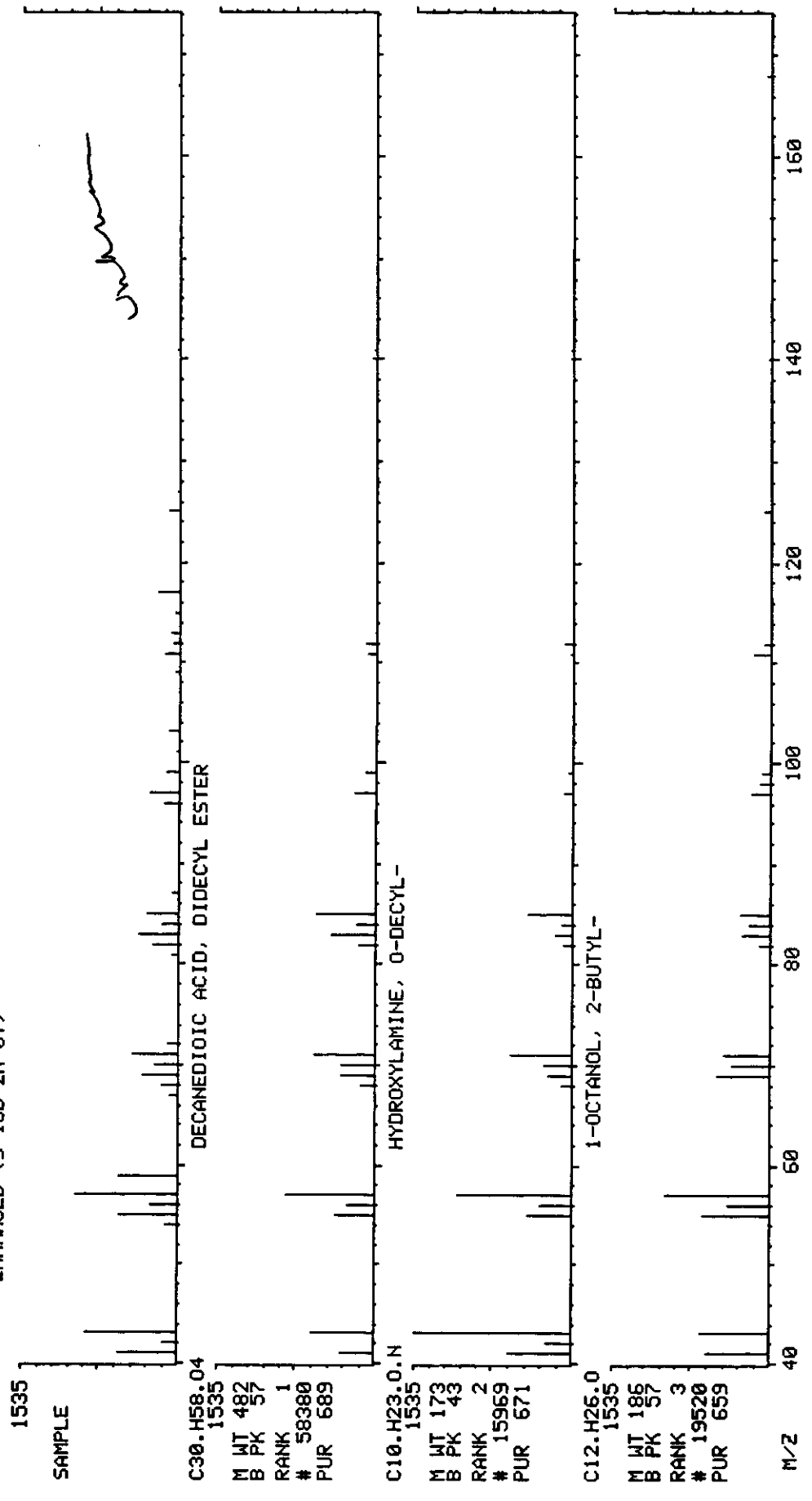
62231 spectra in LIBRARYNB searched for maximum PURITY
 920 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 58380 DECANEDIOIC ACID, DIDECYL ESTER
 2 15969 HYDROXYLAMINE, O-DECYL-
 3 19520 1-OCTANOL, 2-BUTYL-
 4 19525 2-METHYL-1-UNDECANOL
 5 42180 OCTADECANE, 1-(ETHENYLOXY)-
 6 60775 HEXADECANE, 1,1-BIS(DODECYLOXY)-
 7 60679 PHOSPHONIC ACID, DIOCTADECYL ESTER
 8 19523 1-DECANOL, 2-ETHYL-
 9 40233 NONADECANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C30.H58.O4	482	57	689	957	699
2	C10.H23.O.N	173	43	671	918	681
3	C12.H26.O	186	57	659	918	701
4	C12.H26.O	186	57	652	935	681
5	C20.H40.O	296	43	652	925	690
6	C40.H82.O2	594	43	647	873	730
7	C36.H75.O3.P	586	55	646	917	677
8	C12.H26.O	186	57	645	928	669
9	C19.H40.O	284	43	639	915	680

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	2432-89-5
2	—	—	—	—	29812-79-1
3	—	—	—	—	3913-02-8
4	—	—	—	—	10522-26-6
5	—	—	—	—	930-02-9
6	—	—	—	—	56554-64-4
7	—	—	—	—	19047-85-9
8	—	—	—	—	21078-65-9
9	—	—	—	—	52783-43-4

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 16:18
 SAMPLE: 5-MM5-R8 1/35A/1ML
 COND.: UG/ML *1ML *1002/1002 *(NA/NA) >1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 30068109 #1455
 CALI: 30068109 # 3
 BASE M/Z: 57
 RIC: 5872.



1.1
 2.2
 3.3
 4.4

Library Search Data: 30068109 #1502 Base m/z: 45
 08/31/98 22:58:00 + 16:42 Cali: 30068109 # 3 RIC: 3992.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

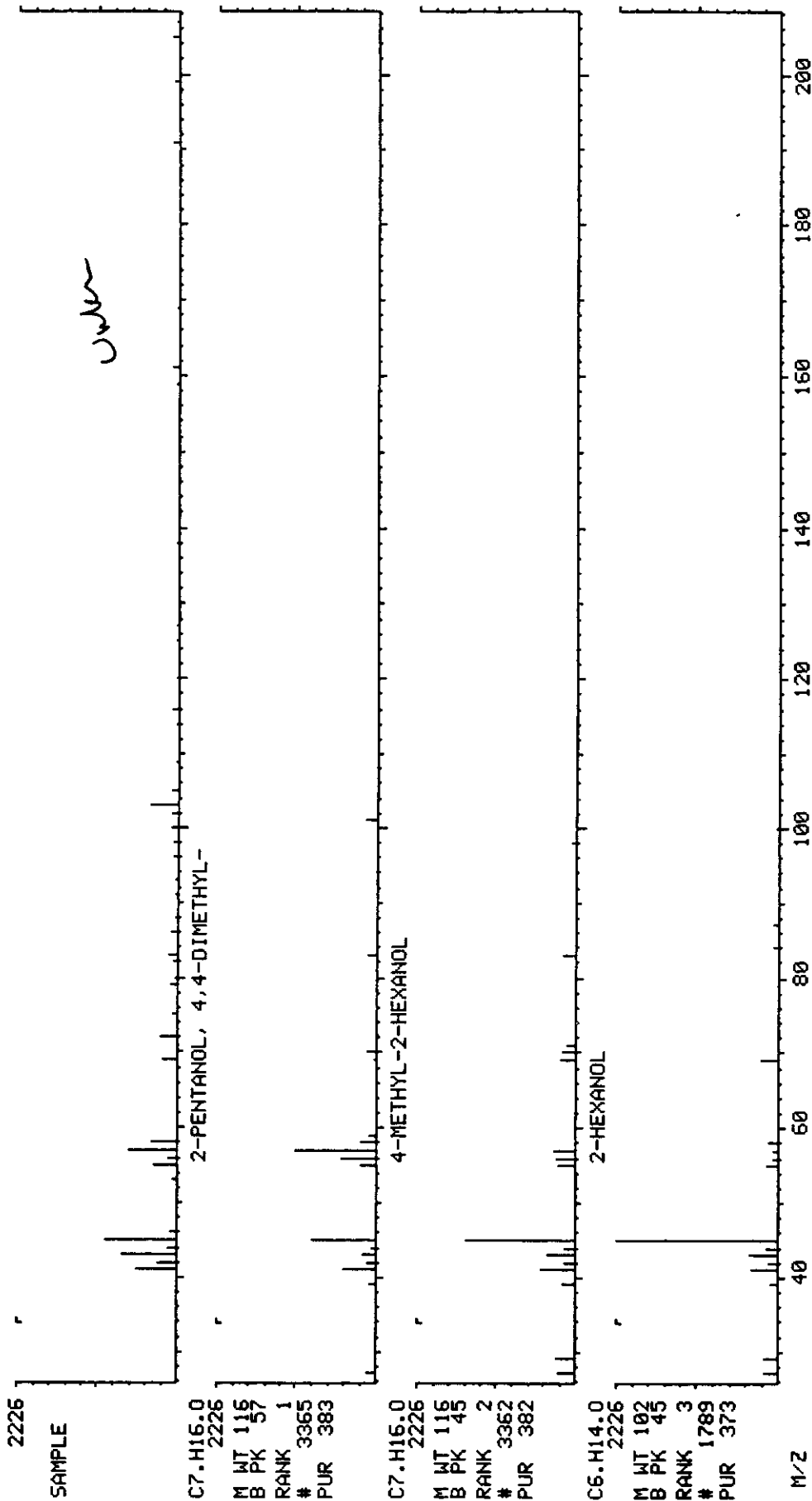
62231 spectra in LIBRARYNB searched for maximum PURITY
 325 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 3365 2-PENTANOL, 4,4-DIMETHYL-
 2 3362 4-METHYL-2-HEXANOL
 3 1789 2-HEXANOL
 4 6417 2-PENTANOL, 3-CHLORO-4-METHYL-, (R@,R@)-(./-.)-
 5 8510 2-NONANOL
 6 3188 N-NITROSO-2-METHYL-OXAZOLIDINE
 7 3060 OXIRANE, 2-BUTYL-3-METHYL-, CIS-
 8 23326 2-PROPANONE, 1,1-DIBUTOXY-
 9 15842 2-UNDECANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	Rfit
1	C7.H16.O	116	57	383	760	443
2	C7.H16.O	116	45	382	818	437
3	C6.H14.O	102	45	373	741	405
4	C6.H13.O.CL	136	45	369	792	412
5	C9.H20.O	144	45	367	786	431
6	C4.H8.O2.N2	116	43	362	703	406
7	C7.H14.O	114	43	358	722	465
8	C11.H22.O3	202	57	354	655	383
9	C11.H24.O	172	45	345	739	443

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	6144-93-0
2	---	---	---	---	2313-61-3
3	---	---	---	---	626-93-7
4	---	---	---	---	74685-47-5
5	---	---	---	---	628-99-9
6	---	---	---	---	39884-53-2
7	---	---	---	---	56052-93-8
8	---	---	---	---	19255-82-4
9	---	---	---	---	1653-30-1

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 16:42
 SAMPLE: S-MM5-RB 1/35A/1ML
 COND.: UG/ML *1ML *100%/100% *(NA/NA) /1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 30068109 #1502
 CALI: 30068109 # 3
 BASE M/Z: 45
 RIC: 3992.



Library Search Data: 30068109 #1509 Base m/z: 59
 08/31/98 22:58:00 + 16:47 Cali: 30068109 # 3 RIC: 12128.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 329 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 2 16192 2-PROPANOL, 1-[1-METHYL-2-(2-PROPENYLOXY)ETHOXY]-
 3 20626 2-PROPANOL, 1,1'-[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-
 4 3522 2,3-BUTANEDIOL, 2,3-DIMETHYL-
 5 9235 1-PROPANOL, 2-(2-METHOXY-1-METHYLETHOXY)-
 6 5778 BUTANOIC ACID, 3-HYDROXY-3-METHYL-, METHYL ESTER
 7 12385 BUTYRIC ACID, 4-ISOPROPOXY-, METHYL ESTER
 8 8432 2-HEXANONE, 3-HYDROXY-3,5-DIMETHYL-
 9 8822 BUTANOIC ACID, 4-ETHOXY-, METHYL ESTER

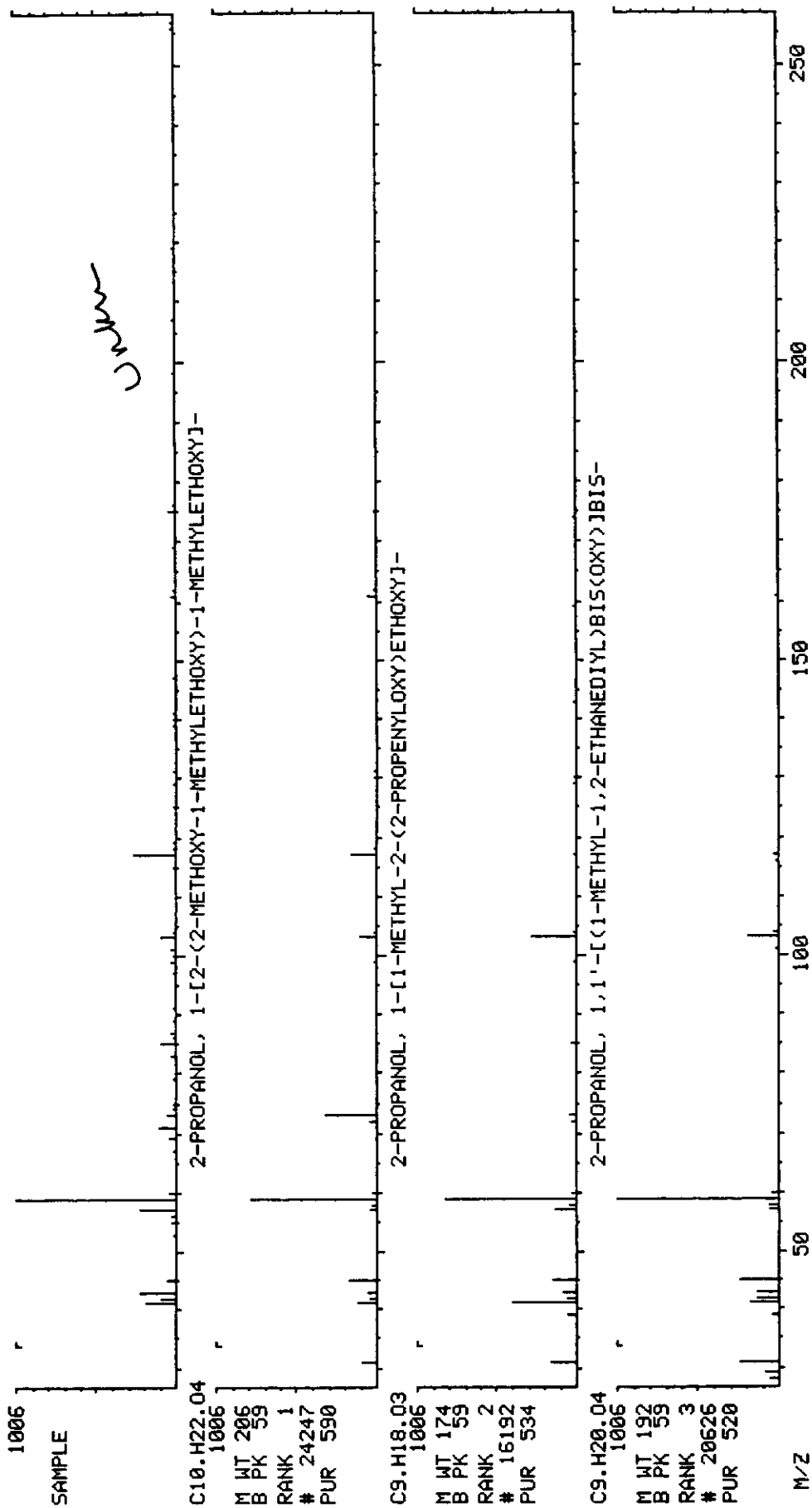
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22.O4	206	59	590	796	614
2	C9.H18.O3	174	59	534	748	564
3	C9.H20.O4	192	59	520	780	546
4	C6.H14.O2	118	59	509	919	522
5	C7.H16.O3	148	59	485	727	488
6	C6.H12.O3	132	43	479	827	496
7	C8.H16.O3	160	85	467	682	496
8	C8.H16.O2	144	59	466	933	475
9	C7.H14.O3	146	59	457	685	483

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	20324-33-8
2	—	—	—	—	55956-25-7
3	—	—	—	—	1638-16-0
4	—	—	—	—	76-09-5
5	—	—	—	—	55956-21-3
6	—	—	—	—	6149-45-7
7	—	—	—	—	29006-05-1
8	—	—	—	—	6321-14-8
9	—	—	—	—	29006-04-0

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 16:47
 SAMPLE: S-MMS-RB 1/35A/1ML
 COND.S.: UG/ML *1ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED <S 15B 2N 0T>

DATA: 30068109 #1509
 CALI: 30068109 # 3

BASE M/Z: 53
 RIC: 12128.



Library Search Data: 30068109 #1529 Base m/z: 59
 08/31/98 22:58:00 + 17:00 Cali: 30068109 # 3 RIC: 10864.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 691 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 3522 2,3-BUTANEDIOL, 2,3-DIMETHYL-
 2 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 3 16192 2-PROPANOL, 1-[1-METHYL-2-(2-PROPENYLOXY)ETHOXY]-
 4 5497 3-ETHYL-2-METHYL-2-PENTANOL
 5 12073 2-METHYL-2-NONANOL
 6 8432 2-HEXANONE, 3-HYDROXY-3,5-DIMETHYL-
 7 8460 SILANE, OCTYL-
 8 20626 2-PROPANOL, 1,1'-[[1-METHYL-1,2-ETHANEDIYL]BIS(OXY)]BIS-
 9 6419 2-PENTANOL, 3-CHLORO-2-METHYL-

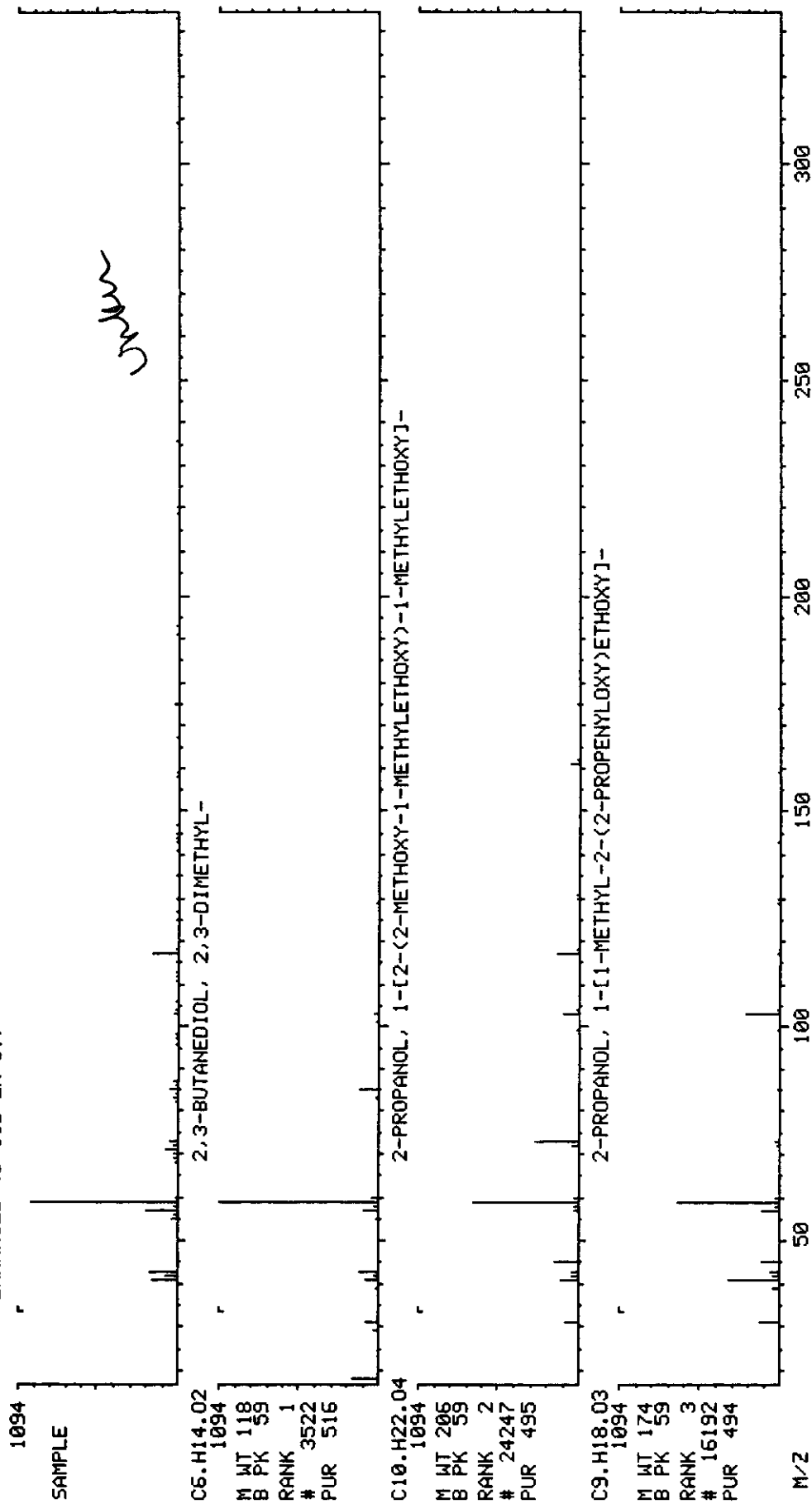
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H14.O2	118	59	516	931	528
2	C10.H22.O4	206	59	495	719	580
3	C9.H18.O3	174	59	494	710	537
4	C8.H18.O	130	59	472	919	494
5	C10.H22.O	158	59	471	846	491
6	C8.H16.O2	144	59	468	852	537
7	C8.H20.SI	144	59	461	781	564
8	C9.H20.O4	192	59	459	734	519
9	C6.H13.O.CL	136	59	457	844	495

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	76-09-5
2	—	—	—	—	20324-33-8
3	—	—	—	—	55956-25-7
4	—	—	—	—	-
5	—	—	—	—	10297-57-1
6	—	—	—	—	6321-14-8
7	—	—	—	—	871-92-1
8	—	—	—	—	1638-16-0
9	—	—	—	—	74685-49-7

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 17:00
 SAMPLE: S-MM5-RB 1/35A/1ML
 COND.S.: UG/ML *1ML *100Z/100Z *(NA/NA) 1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #1529
 CALI: 30068109 # 3

BASE M/Z: 59
 RIC: 10854.



Library Search Data: 30068109 #1587 Base m/z: 57
 08/31/98 22:58:00 + 17:39 Cali: 30068109 # 3 RIC: 68224.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

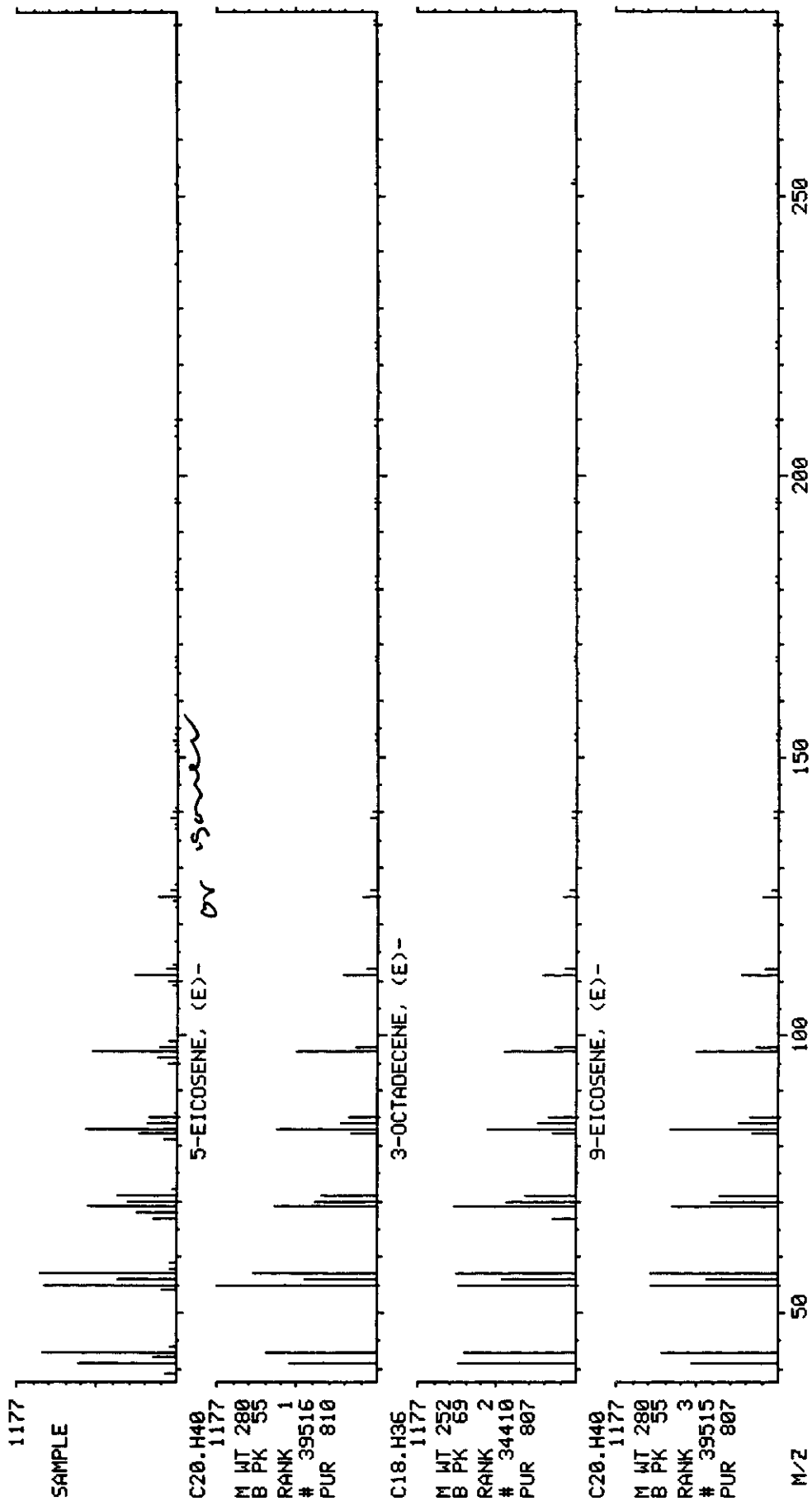
62231 spectra in LIBRARYNB searched for maximum PURITY
 950 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 39516 5-EICOSENE, (E)-
 2 34410 3-OCTADECENE, (E)-
 3 39515 9-EICOSENE, (E)-
 4 34411 5-OCTADECENE, (E)-
 5 34418 9-OCTADECENE, (E)-
 6 31653 1-HEPTADECENE
 7 39517 3-EICOSENE, (E)-
 8 37062 1-NONADECENE
 9 26416 4-TETRADECANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H40	280	55	810	986	813
2	C18.H36	252	69	807	973	811
3	C20.H40	280	55	807	985	810
4	C18.H36	252	55	804	971	806
5	C18.H36	252	55	803	970	806
6	C17.H34	238	55	800	981	801
7	C20.H40	280	57	797	988	799
8	C19.H38	266	97	794	971	802
9	C14.H30.O	214	43	793	990	795

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	74685-30-6
2	—	—	—	—	7206-19-1
3	—	—	—	—	74685-29-3
4	—	—	—	—	7206-21-5
5	—	—	—	—	7206-25-9
6	—	—	—	—	6765-39-5
7	—	—	—	—	74685-33-9
8	—	—	—	—	18435-45-5
9	—	—	—	—	1653-33-4

MID LIBRARY SEARCH (LIBRARY.NB)
 08/31/98 22:58:00 + 17:39
 SAMPLE: S-NMS-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100%/100% *(NA/NA) /1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 30068109 #1587
 CALI: 30068109 # 3
 BASE M/Z: 57
 RIC: 58224.



Library Search Data: 30068109 #1661 Base m/z: 59
 08/31/98 22:58:00 + 18:29 Cali: 30068109 # 3 RIC: 9856.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

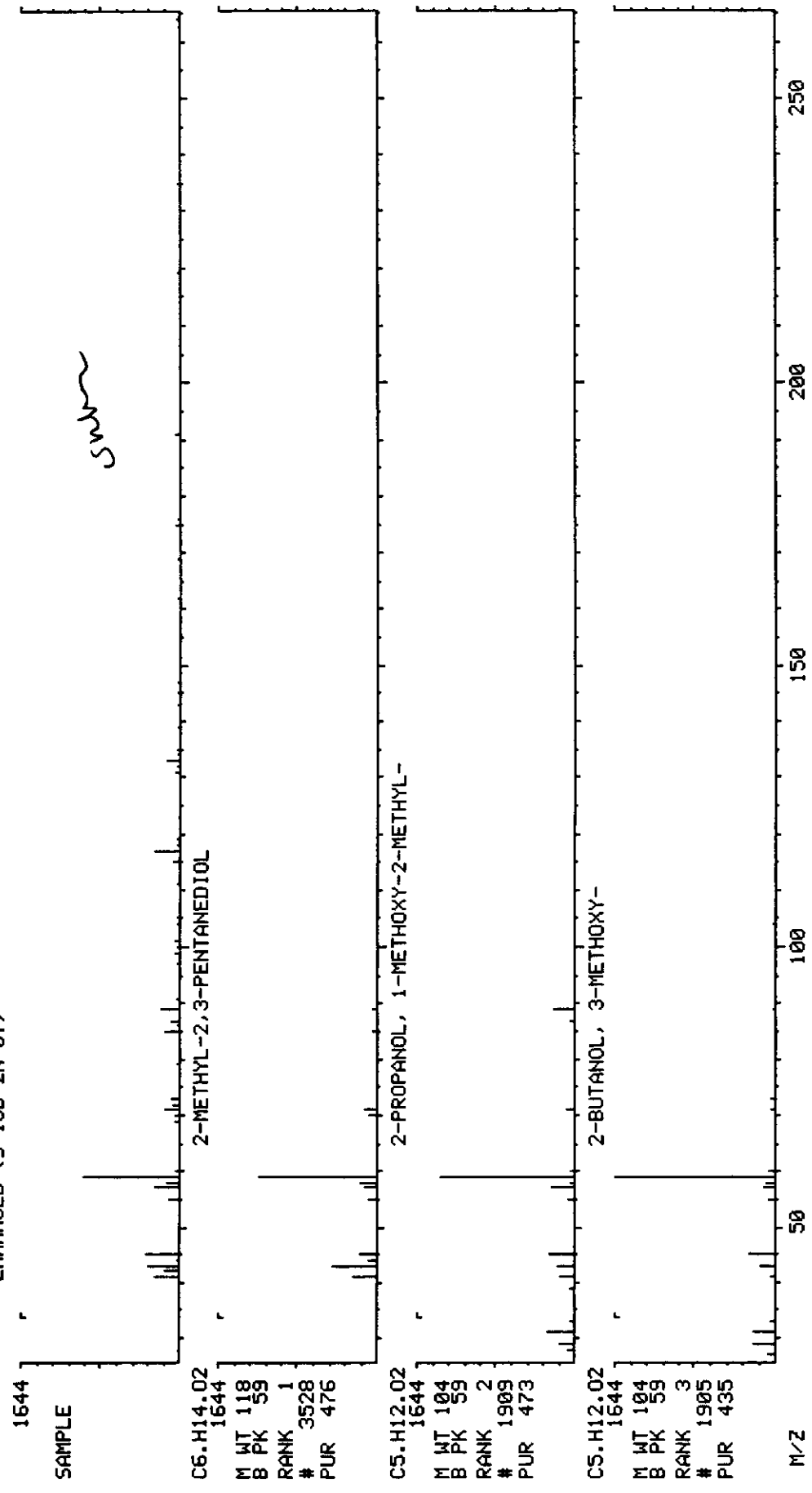
62231 spectra in LIBRARYNB searched for maximum PURITY
 217 matched at least 6 of the 16 largest peaks in the unknown

Rank In.	Name
1	3528 2-METHYL-2,3-PENTANEDIOL
2	1909 2-PROPANOL, 1-METHOXY-2-METHYL-
3	1905 2-BUTANOL, 3-METHOXY-
4	3502 BUTANOIC ACID, 3-HYDROXY-3-METHYL-
5	9227 1,3,3-TRIMETHOXYBUTANE
6	8822 BUTANOIC ACID, 4-ETHOXY-, METHYL ESTER
7	5826 2-PROPANOL, 1-ISOPROPOXY-2-METHYL-
8	1919 1-BUTANOL, 3-METHOXY-
9	36510 1,4,7,10,13,16-HEXAOXACYCLOOCTADECANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H14.O2	118	59	476	925	476
2	C5.H12.O2	104	59	473	946	477
3	C5.H12.O2	104	59	435	870	435
4	C5.H10.O3	118	59	432	815	489
5	C7.H16.O3	148	45	429	674	442
6	C7.H14.O3	146	59	427	743	515
7	C7.H16.O2	132	59	426	677	490
8	C5.H12.O2	104	59	424	893	437
9	C12.H24.O6	264	45	423	678	455

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7795-80-4
2	—	—	—	—	3587-64-2
3	—	—	—	—	53778-72-6
4	—	—	—	—	625-08-1
5	—	—	—	—	6607-66-5
6	—	—	—	—	29006-04-0
7	—	—	—	—	3587-75-5
8	—	—	—	—	2517-43-3
9	—	—	—	—	17455-13-9

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 18:29
 SAMPLE: S-MM5-R8 1/35A/1ML INST. ID: F16
 CONDS.: UG/ML *1ML *100%/100% *(NA/NA) /1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068109 #1661
 CALI: 30068109 # 3
 BASE M/Z: 59
 RIC: 9856.



1202

Library Search Data: 30068109 #1687 Base m/z: 59
 08/31/98 22:58:00 + 18:46 Cali: 30068109 # 3 RIC: 6712.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2M 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 613 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 5786 PROPANOIC ACID, 2-HYDROXY-2-METHYL-, ETHYL ESTER
 2 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 3 9228 1-PROPANOL, 2-(2-METHOXYPROPOXY)-
 4 20626 2-PROPANOL, 1,1'-[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-
 5 36537 2,5,8,11-TETRAOXATETRADECAN-13-OL, 4,7,10-TRIMETHYL-
 6 926 1-PROPANOL, 2-METHOXY-
 7 334 2-PROPANOL, 2-METHYL-
 8 8432 2-HEXANONE, 3-HYDROXY-3,5-DIMETHYL-
 9 848 3-PENTANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H12.O3	132	59	573	800	620
2	C10.H22.O4	206	59	557	664	767
3	C7.H16.O3	148	59	554	737	744
4	C9.H20.O4	192	59	546	698	681
5	C13.H28.O5	264	59	536	667	770
6	C4.H10.O2	90	59	534	944	551
7	C4.H10.O	74	59	524	915	548
8	C8.H16.O2	144	59	517	867	552
9	C5.H12.O	88	59	514	907	553

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	80-55-7
2	—	—	—	—	20324-33-8
3	—	—	—	—	13588-28-8
4	—	—	—	—	1638-16-0
5	—	—	—	—	20324-34-9
6	—	—	—	—	1589-47-5
7	—	—	—	—	75-65-0
8	—	—	—	—	6321-14-8
9	—	—	—	—	584-02-1

Library Search Data: 30068109 #1706 Base m/z: 43
 08/31/98 22:58:00 + 18:59 Cali: 30068109 # 3 RIC: 5680.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 482 matched at least 7 of the 16 largest peaks in the unknown

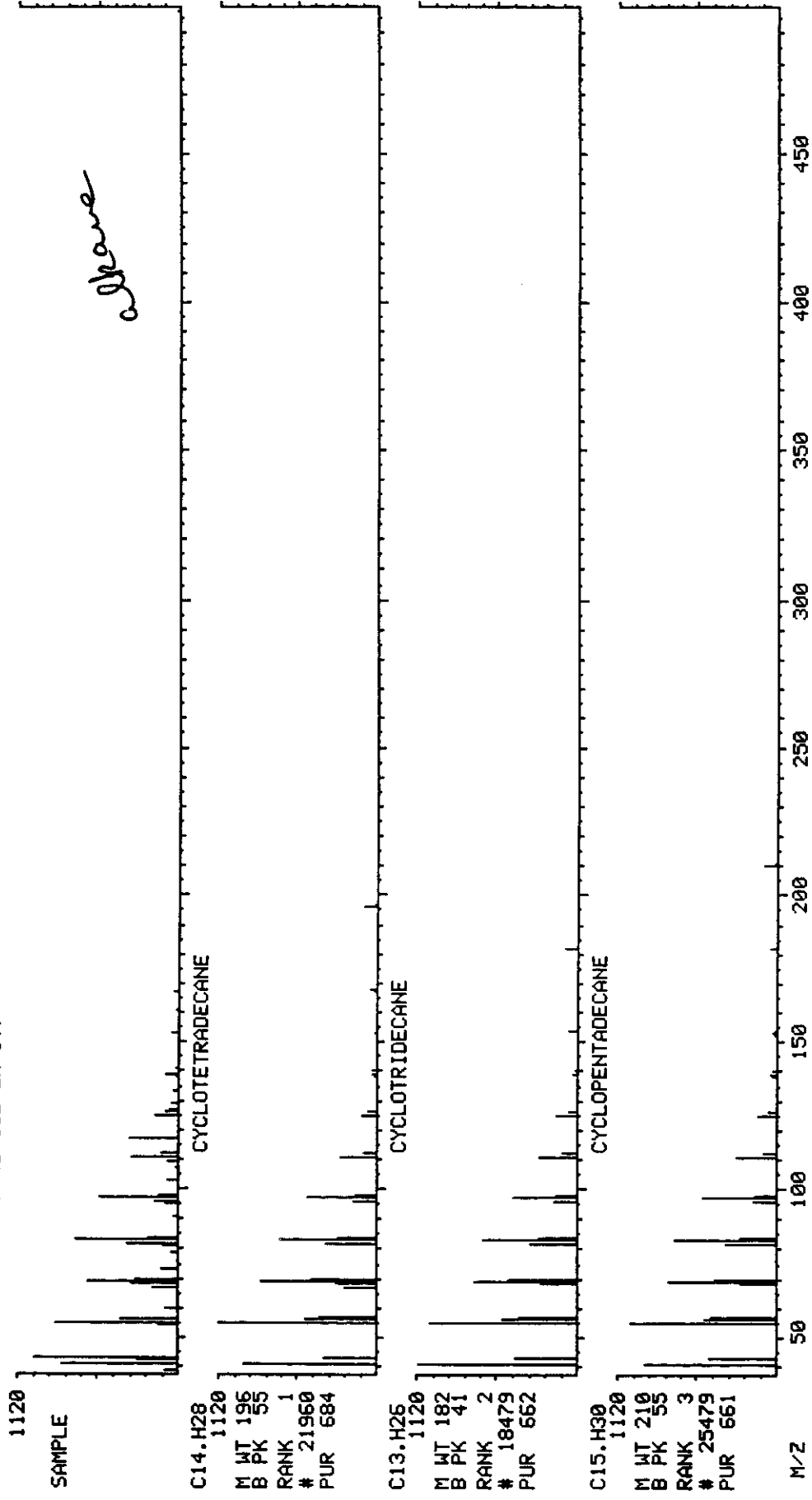
Rank In. Name
 1 21960 CYCLOTETRADECANE
 2 18479 CYCLOTRIDECANE
 3 25479 CYCLOPENTADECANE
 4 14780 CYCLOODECANE
 5 15841 1-UNDECANOL
 6 32420 1-HEXADECANOL
 7 11075 CYCLODECANE, METHYL-
 8 25482 CYCLOPENTANE, DECYL-
 9 14765 CYCLOPROPANE, NONYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H28	196	55	684	871	760
2	C13.H26	182	41	662	885	729
3	C15.H30	210	55	661	868	748
4	C12.H24	168	55	661	882	717
5	C11.H24.O	172	55	632	895	670
6	C16.H34.O	242	55	628	855	719
7	C11.H22	154	55	628	904	662
8	C15.H30	210	41	628	827	720
9	C12.H24	168	55	620	835	673

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	295-17-0
2	---	---	---	---	295-02-3
3	---	---	---	---	295-48-7
4	---	---	---	---	294-62-2
5	---	---	---	---	112-42-5
6	---	---	---	---	36653-82-4
7	---	---	---	---	13151-43-4
8	---	---	---	---	1795-21-7
9	---	---	---	---	74663-85-7

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 18:59
 SAMPLE: 5-MM5-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #1706
 CALI: 30068109 # 3
 BASE M/Z: 43
 RIC: 5680.



1120
 5680
 (C)
 (S)

Library Search Data: 30068109 #1741 Base m/z: 59
 08/31/98 22:58:00 + 19:22 Cali: 30068109 # 3 RIC: 11328.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 615 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 39622 9-OCTADECENAMIDE, (Z)-
 2 11721 NONANAMIDE
 3 3133 PENTANAMIDE, 4-METHYL-
 4 15482 HEPTANAMIDE, 4-ETHYL-5-METHYL-
 5 22656 DODECANAMIDE
 6 19516 1-DECANOL, 5,9-DIMETHYL-
 7 7998 TRANS-3,4-EPOXYNONANE
 8 3132 HEXANAMIDE
 9 1617 PENTANAMIDE

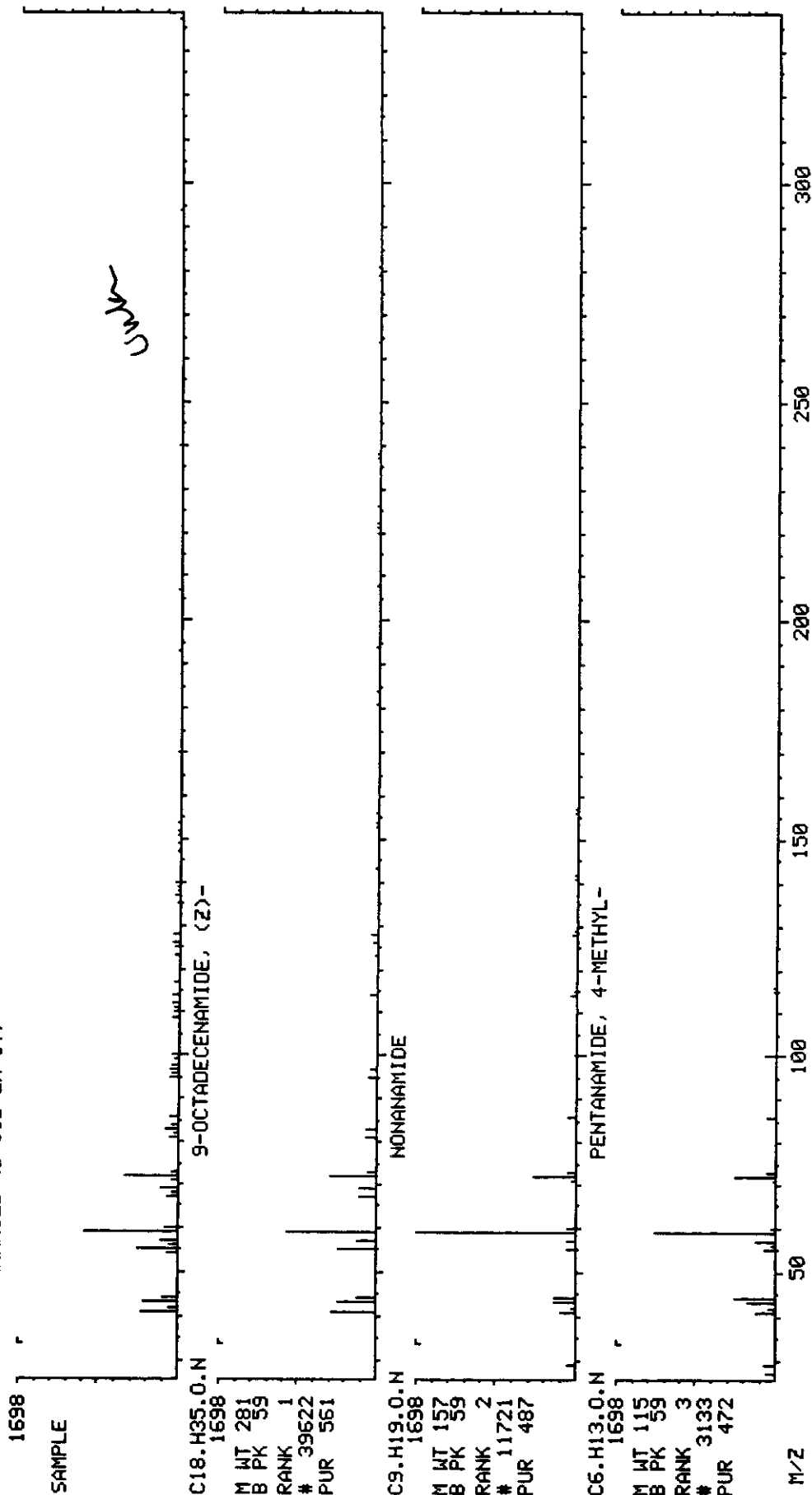
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	561	866	644
2	C9.H19.O.N	157	59	487	894	498
3	C6.H13.O.N	115	59	472	913	477
4	C10.H21.O.N	171	59	461	860	485
5	C12.H25.O.N	199	59	458	852	515
6	C12.H26.O	186	41	454	767	497
7	C9.H18.O	142	41	438	769	482
8	C6.H13.O.N	115	59	432	866	437
9	C5.H11.O.N	101	59	419	858	428

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	301-02-0
2	---	---	---	---	1120-07-6
3	---	---	---	---	1119-29-5
4	---	---	---	---	54789-40-1
5	---	---	---	---	1120-16-7
6	---	---	---	---	91482-38-1
7	---	---	---	---	- -
8	---	---	---	---	628-02-4
9	---	---	---	---	626-97-1

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 19:22
 SAMPLE: S-MM5-RB 1/35A/1ML
 COND.: UG/ML *1ML *100%/100% *(NA/NA) /1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #1741
 CALI: 30068109 # 3

BASE M/Z: 59
 RIC: 11328.



Library Search Data: 30068109 #1801 Base m/z: 59
 08/31/98 22:58:00 + 20:02 Cali: 30068109 # 3 RIC: 8960.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (\$ 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 752 matched at least 5 of the 16 largest peaks in the unknown

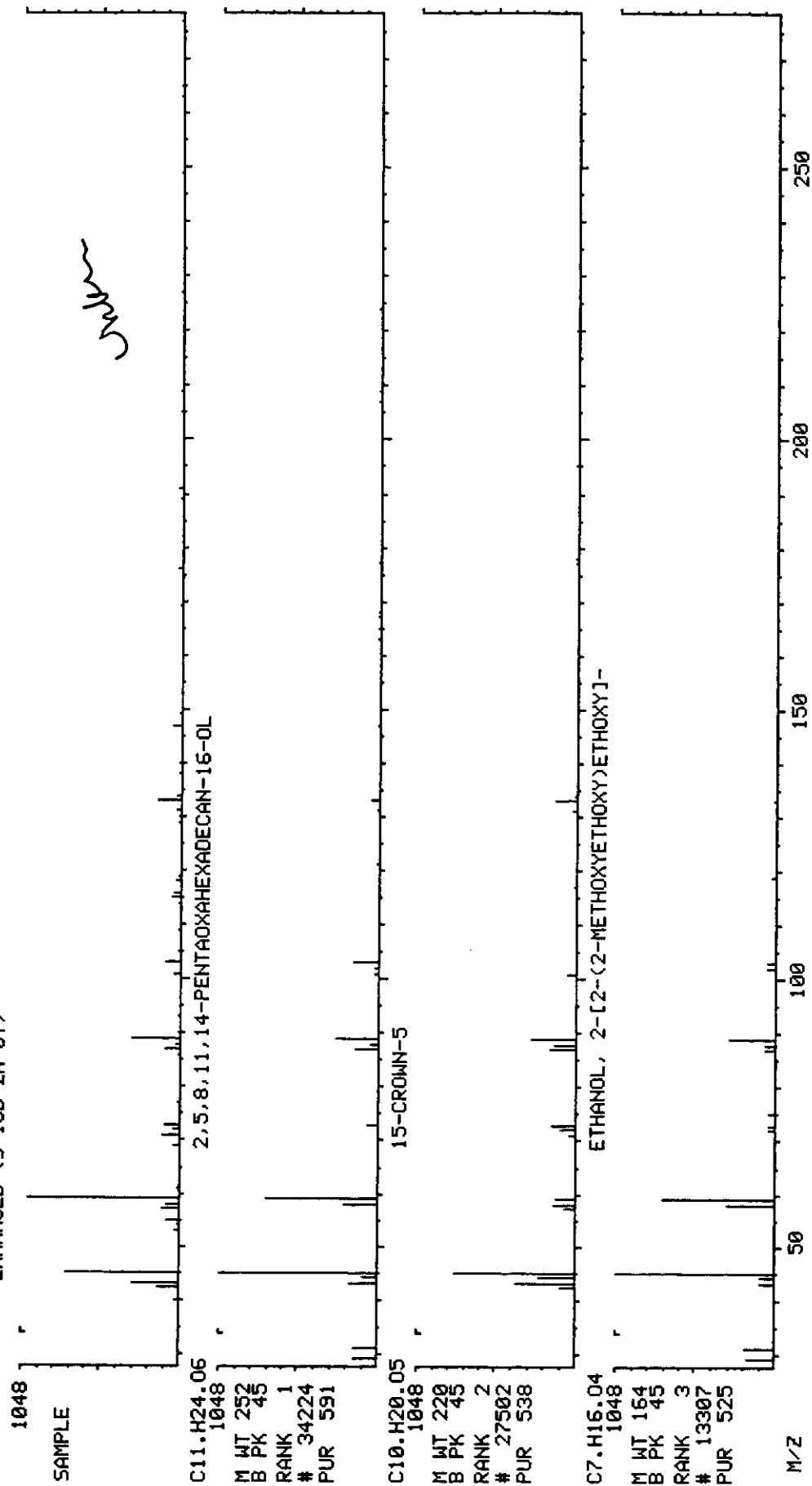
Rank In. Name
 1 34224 2,5,8,11,14-PENTAOXAHEXADECAN-16-OL
 2 27502 15-CROWN-5
 3 13307 ETHANOL, 2-[2-(2-METHOXYETHOXY)ETHOXY]-
 4 17070 2,5,8,11-TETRAOXADODECANE
 5 28000 2,5,8,11,14-PENTAOXAPENTADECANE
 6 36510 1,4,7,10,13,16-HEXAOXACYCLOOCTADECANE
 7 8813 ETHENE, (2-ETHOXY-1-METHOXYETHOXY)-
 8 36865 2,5,8,11,14,17-HEXAOXAOCTADECANE
 9 1909 2-PROPANOL, 1-METHOXY-2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24.O6	252	45	591	876	632
2	C10.H20.O5	220	45	538	772	590
3	C7.H16.O4	164	45	525	827	565
4	C8.H18.O4	178	59	511	814	532
5	C10.H22.O5	222	59	506	742	533
6	C12.H24.O6	264	45	498	767	555
7	C7.H14.O3	146	59	488	838	504
8	C12.H26.O6	266	59	484	737	520
9	C5.H12.O2	104	59	476	864	510

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	23778-52-1
2	—	—	—	—	33100-27-5
3	—	—	—	—	112-35-6
4	—	—	—	—	112-49-2
5	—	—	—	—	143-24-8
6	—	—	—	—	17455-13-9
7	—	—	—	—	54063-18-2
8	—	—	—	—	1191-87-3
9	—	—	—	—	3587-64-2

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 20:02
 SAMPLE: S-MM5-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA) 1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #1801
 CALI: 30068109 # 3
 BASE M/Z: 59
 RIC: 8960.



Library Search Data: 30068109 #1834 Base m/z: 59
 08/31/98 22:58:00 + 20:24 Cali: 30068109 # 3 RIC: 2840.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 435 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 329 PROPANE, 2-METHOXY-
 2 3132 HEXANAMIDE
 3 1618 BUTANAMIDE, 3-METHYL-
 4 11721 NONANAMIDE
 5 8432 2-HEXANONE, 3-HYDROXY-3,5-DIMETHYL-
 6 1694 3-HYDROXY-3-METHYL-2-BUTANONE
 7 1617 PENTANAMIDE
 8 8871 METHANE, TERT-BUTOXYISOPROPOXY-
 9 22656 DODECANAMIDE

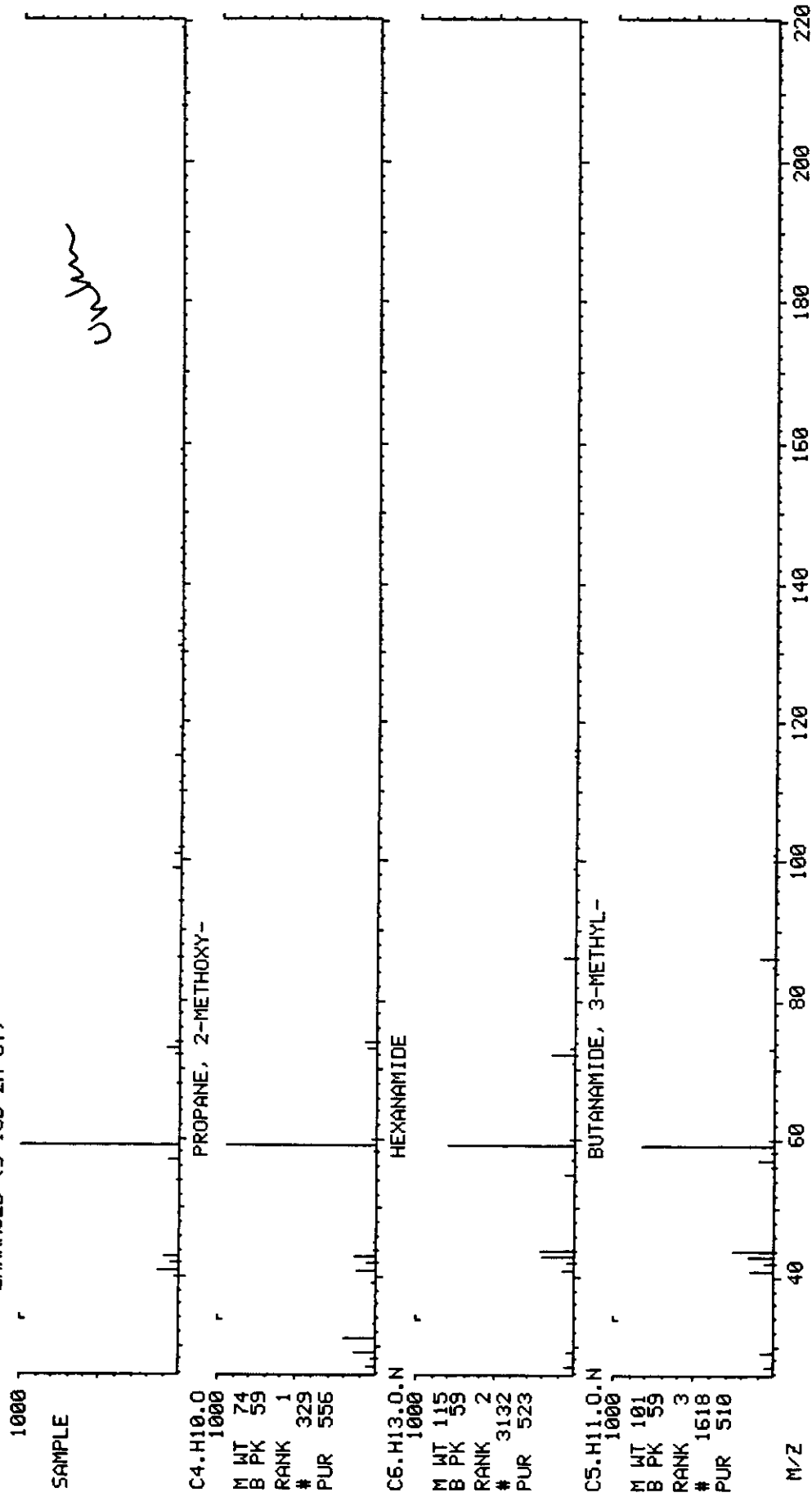
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H10.O	74	59	556	924	590
2	C6.H13.O.N	115	59	523	726	621
3	C5.H11.O.N	101	59	510	780	614
4	C9.H19.O.N	157	59	502	713	610
5	C8.H16.O2	144	59	499	818	574
6	C5.H10.O2	102	59	474	834	541
7	C5.H11.O.N	101	59	470	734	595
8	C8.H18.O2	146	57	467	690	527
9	C12.H25.O.N	199	59	463	640	633

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	598-53-8
2	—	—	—	—	628-02-4
3	—	—	—	—	541-46-8
4	—	—	—	—	1120-07-6
5	—	—	—	—	6321-14-8
6	—	—	—	—	115-22-0
7	—	—	—	—	626-97-1
8	—	—	—	—	4346-01-4
9	—	—	—	—	1120-16-7

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 20:24
 SAMPLE: S-MM5-R8 1/35A/1ML
 CONDS.: UG/ML *1ML *1002/1002 *(NA/NA >1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068109 #1834
 CALI: 30068109 # 3

BASE M/Z: 59
 RIC: 2840.



Library Search Data: 30068109 #1916 Base m/z: 43
 08/31/98 22:58:00 + 21:19 Cali: 30068109 # 3 RIC: 29632.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

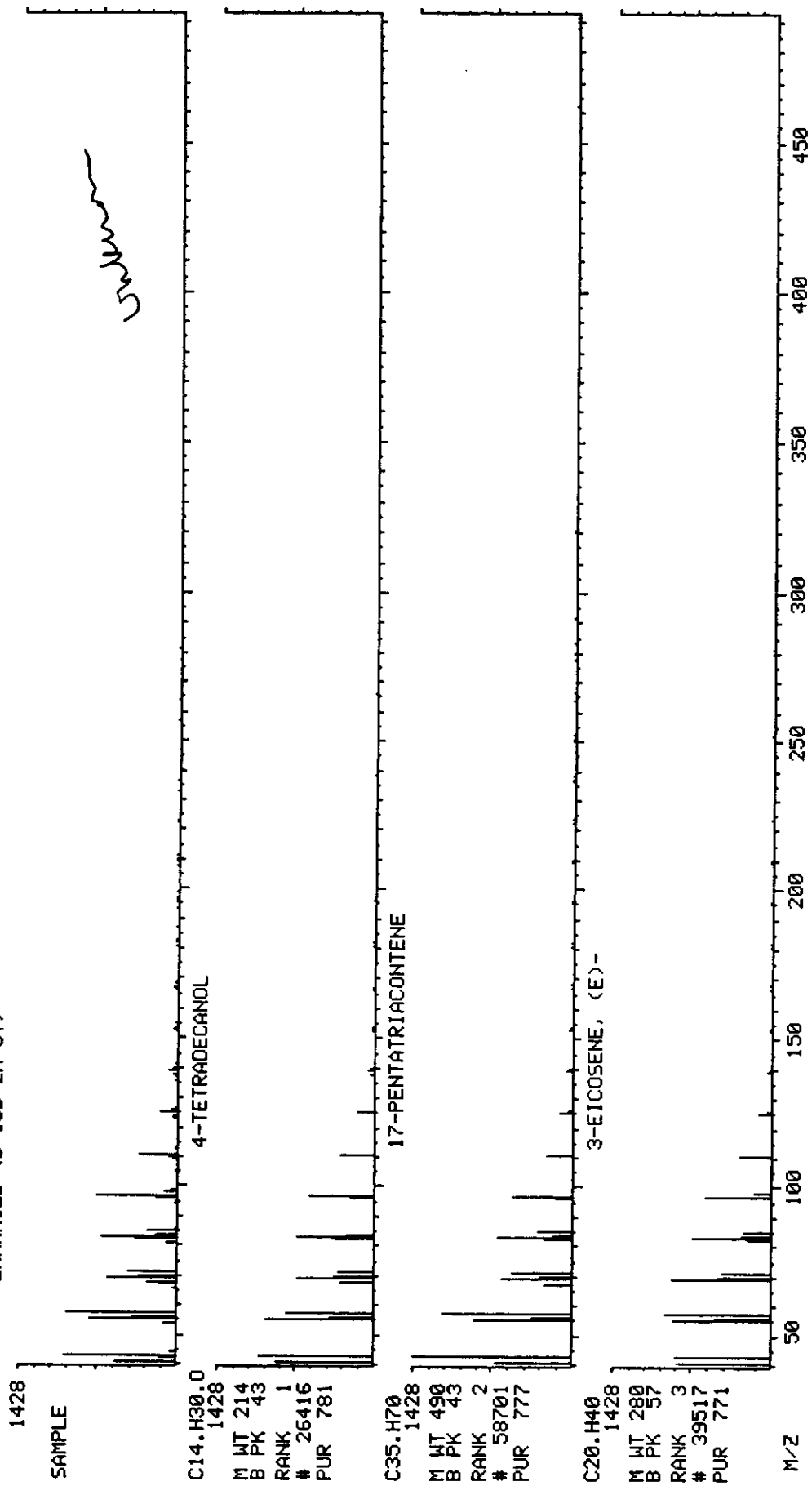
62231 spectra in LIBRARYNB searched for maximum PURITY
 818 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 26416 4-TETRADECANOL
 2 58701 17-PENTATRIACONTENE
 3 39517 3-EICOSENE, (E)-
 4 31653 1-HEPTADECENE
 5 35206 1-HEPTADECANOL
 6 40232 1-NONADECANOL
 7 39516 5-EICOSENE, (E)-
 8 39515 9-EICOSENE, (E)-
 9 32420 1-HEXADECANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30.O	214	43	781	980	787
2	C35.H70	490	43	777	941	812
3	C20.H40	280	57	771	962	780
4	C17.H34	238	55	769	955	778
5	C17.H36.O	256	55	769	978	773
6	C19.H40.O	284	55	758	982	767
7	C20.H40	280	55	757	943	779
8	C20.H40	280	57	757	944	780
9	C16.H34.O	242	55	756	967	760

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1653-33-4
2	—	—	—	—	6971-40-0
3	—	—	—	—	74685-33-9
4	—	—	—	—	6765-39-5
5	—	—	—	—	1454-85-9
6	—	—	—	—	1454-84-8
7	—	—	—	—	74685-30-6
8	—	—	—	—	74685-29-3
9	—	—	—	—	36653-82-4

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 21:19
 SAMPLE: S-MMS-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA) /1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068109 #1916
 CALI: 30068109 # 3
 BASE M/Z: 43
 RIC: 29632.



Library Search Data: 30068109 #1934 Base m/z: 59
 08/31/98 22:58:00 + 21:31 Cali: 30068109 # 3 RIC: 11856.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum PURITY
 265 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 41712 3,6,9,12,15-PENTAOXANONADECAN-1-OL
 2 36510 1,4,7,10,13,16-HEXAOXACYCLOOCTADECANE
 3 1909 2-PROPANOL, 1-METHOXY-2-METHYL-
 4 34224 2,5,8,11,14-PENTAOXAHEXADECAN-16-OL
 5 9227 1,3,3-TRIMETHOXYBUTANE
 6 5825 2-PROPANOL, 1-(2-METHYLPROPOXY)-
 7 5832 2-PROPANOL, 1-(1-METHYLPROPOXY)-
 8 3528 2-METHYL-2,3-PENTANEDIOL
 9 8813 ETHENE, (2-ETHOXY-1-METHOXYETHOXY)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30.O6	294	45	478	775	489
2	C12.H24.O6	264	45	465	776	466
3	C5.H12.O2	104	59	460	937	464
4	C11.H24.O6	252	45	447	872	464
5	C7.H16.O3	148	45	444	718	454
6	C7.H16.O2	132	57	443	823	457
7	C7.H16.O2	132	43	433	827	450
8	C6.H14.O2	118	59	426	846	443
9	C7.H14.O3	146	59	422	853	422

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	1786-94-3
2	---	---	---	---	17455-13-9
3	---	---	---	---	3587-64-2
4	---	---	---	---	23778-52-1
5	---	---	---	---	6607-66-5
6	---	---	---	---	23436-19-3
7	---	---	---	---	53907-95-2
8	---	---	---	---	7795-80-4
9	---	---	---	---	54063-18-2

Library Search Data: 30068109 #1940 Base m/z: 59
 08/31/98 22:58:00 + 21:35 Cali: 30068109 # 3 RIC: 8400.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum PURITY
 400 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 9227 1,3,3-TRIMETHOXYBUTANE
 2 27502 15-CROWN-5
 3 1909 2-PROPANOL, 1-METHOXY-2-METHYL-
 4 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 5 1919 1-BUTANOL, 3-METHOXY-
 6 36510 1,4,7,10,13,16-HEXAOXACYCLOOCTADECANE
 7 41712 3,6,9,12,15-PENTAOXANONADECAN-1-OL
 8 9235 1-PROPANOL, 2-(2-METHOXY-1-METHYLETHOXY)-
 9 3528 2-METHYL-2,3-PENTANEDIOL

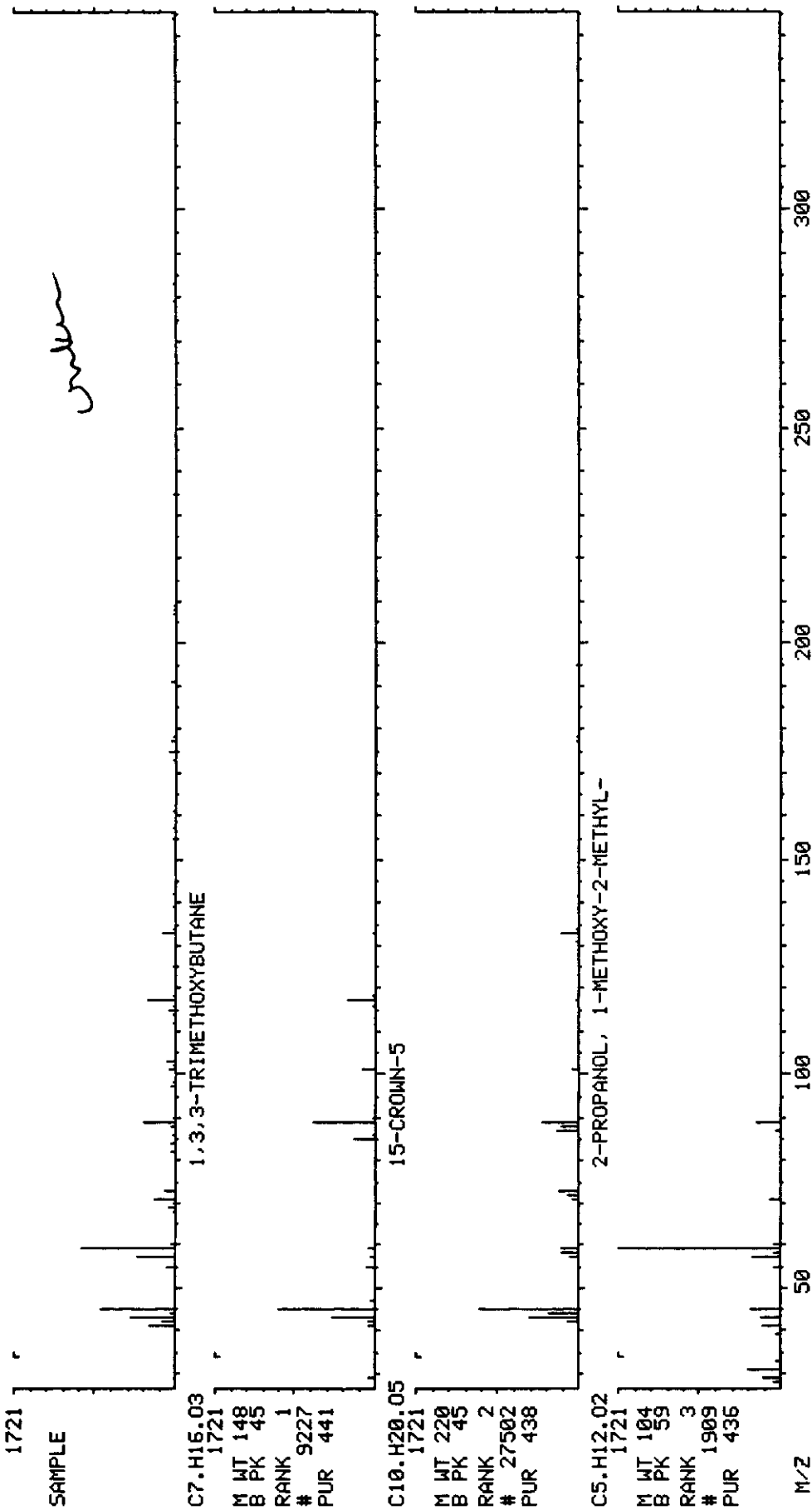
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O3	148	45	441	695	488
2	C10.H20.O5	220	45	438	648	528
3	C5.H12.O2	104	59	436	882	457
4	C10.H22.O4	206	59	418	738	448
5	C5.H12.O2	104	59	418	811	431
6	C12.H24.O6	264	45	406	661	487
7	C14.H30.O6	294	45	404	648	496
8	C7.H16.O3	148	59	398	763	408
9	C6.H14.O2	118	59	394	793	432

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	6607-66-5
2	---	---	---	---	33100-27-5
3	---	---	---	---	3587-64-2
4	---	---	---	---	20324-33-8
5	---	---	---	---	2517-43-3
6	---	---	---	---	17455-13-9
7	---	---	---	---	1786-94-3
8	---	---	---	---	55956-21-3
9	---	---	---	---	7795-80-4

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 21:35
 SAMPLE: S-MM5-RB 1/35A/1ML
 COND5.: UG/ML *1ML *100%/100% *(NA/NA >1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068109 #1940
 CALI: 30068109 # 3

BASE M/Z: 59
 RIC: 8400.



Library Search Data: 30068109 #1966 Base m/z: 59
 08/31/98 22:58:00 + 21:52 Cali: 30068109 # 3 RIC: 3004.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

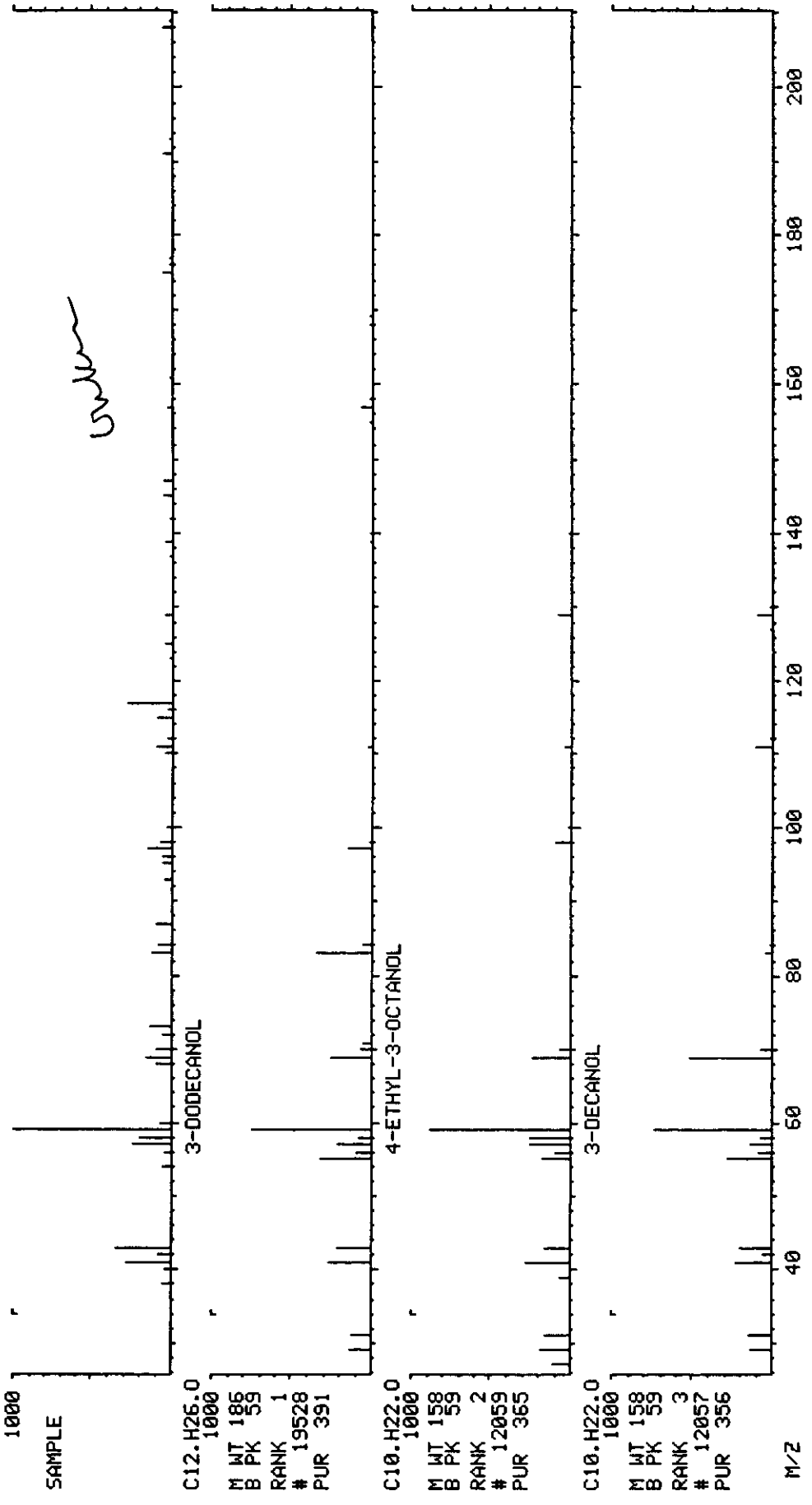
62231 spectra in LIBRARYNB searched for maximum PURITY
 783 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 19528 3-DODECANOL
 2 12059 4-ETHYL-3-OCTANOL
 3 12057 3-DECANOL
 4 3237 4-HYDROXY-3-HEXANONE
 5 9228 1-PROPANOL, 2-(2-METHOXYPROPOXY)-
 6 12062 3-OCTANOL, 6-ETHYL-
 7 15851 2-METHYL-2-DECANOL
 8 15839 5-ETHYL-3-NONANOL
 9 8506 4,5-DIMETHYL-3-HEPTANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H26.O	186	59	391	789	450
2	C10.H22.O	158	59	365	887	397
3	C10.H22.O	158	59	356	792	401
4	C6.H12.O2	116	59	355	770	366
5	C7.H16.O3	148	59	348	792	380
6	C10.H22.O	158	59	341	755	401
7	C11.H24.O	172	59	339	731	400
8	C11.H24.O	172	57	338	719	398
9	C9.H20.O	144	59	338	824	403

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	10203-30-2
2	—	—	—	—	19781-26-1
3	—	—	—	—	1565-81-7
4	—	—	—	—	4984-85-4
5	—	—	—	—	13588-28-8
6	—	—	—	—	19781-27-2
7	—	—	—	—	3396-02-9
8	—	—	—	—	- -
9	—	—	—	—	- -

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 21:52
 SAMPLE: S-MN5-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100%/100% *KNA/NA >1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068109 #1966
 CALL: 30068109 # 3
 BASE M/2: 59
 RIC: 3004.



Library Search Data: 30068109 #2014 Base m/z: 43
 08/31/98 22:58:00 + 22:24 Cali: 30068109 # 3 RIC: 14592.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 950 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 39515 9-EICOSENE, (E)-
 2 39516 5-EICOSENE, (E)-
 3 34410 3-OCTADECENE, (E)-
 4 37062 1-NONADECENE
 5 34418 9-OCTADECENE, (E)-
 6 34411 5-OCTADECENE, (E)-
 7 31653 1-HEPTADECENE
 8 39517 3-EICOSENE, (E)-
 9 26416 4-TETRADECANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H40	280	55	729	949	741
2	C20.H40	280	55	728	947	741
3	C18.H36	252	69	718	938	734
4	C19.H38	266	97	717	948	737
5	C18.H36	252	55	716	935	730
6	C18.H36	252	55	716	934	730
7	C17.H34	238	55	715	942	728
8	C20.H40	280	57	713	951	725
9	C14.H30.O	214	43	711	970	721

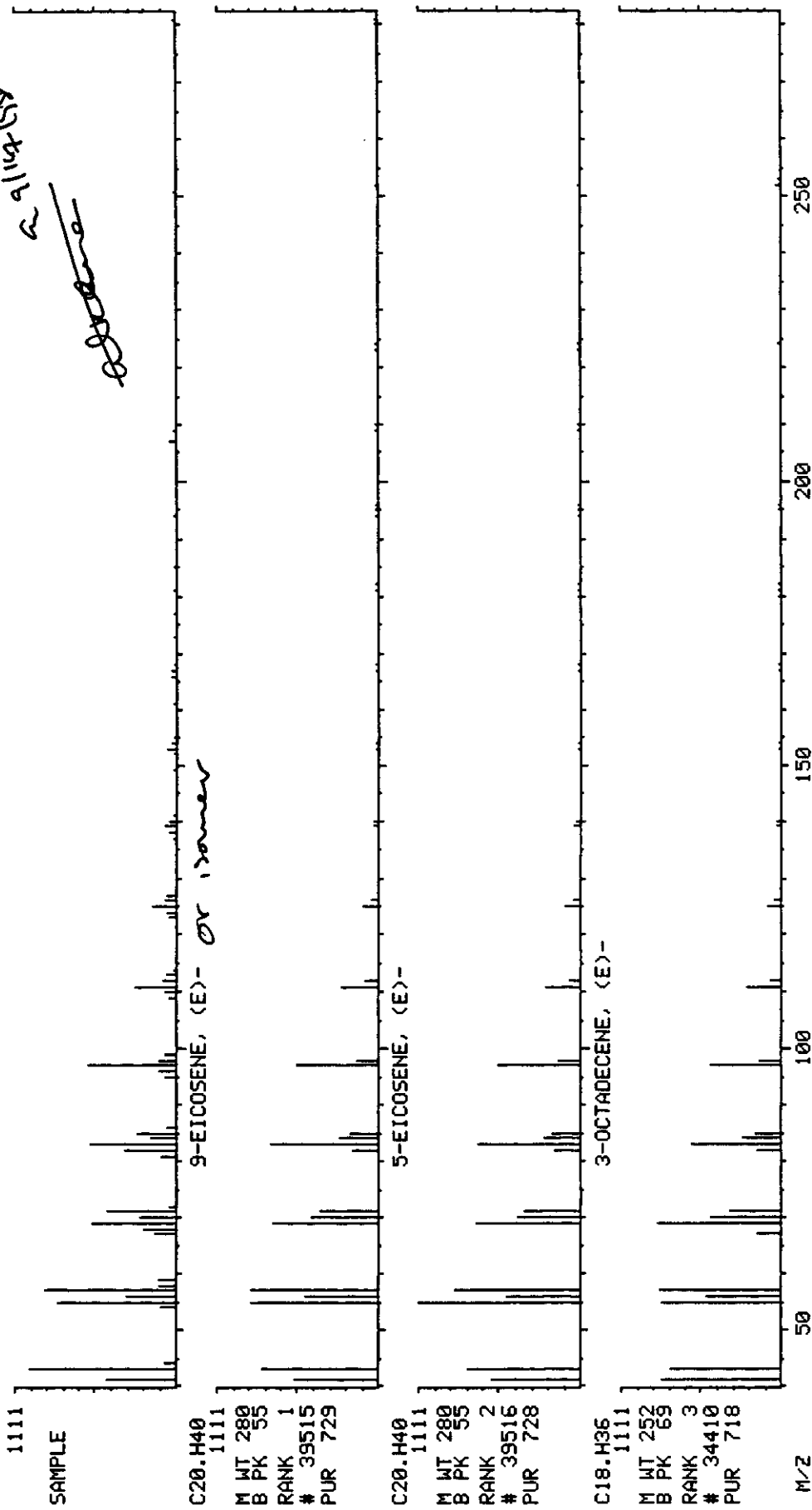
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	74685-29-3
2	—	—	—	—	74685-30-6
3	—	—	—	—	7206-19-1
4	—	—	—	—	18435-45-5
5	—	—	—	—	7206-25-9
6	—	—	—	—	7206-21-5
7	—	—	—	—	6765-39-5
8	—	—	—	—	74685-33-9
9	—	—	—	—	1653-33-4

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 22:24
 SAMPLE: S-MM5-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100%/100% *(NA/NA) 1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #2014
 CALI: 30068109 # 3

BASE M/Z: 43
 RIC: 14592.

29119-159
[Signature]



Library Search Data: 30068109 #2051 Base m/z: 59
 08/31/98 22:58:00 + 22:49 Cali: 30068109 # 3 RIC: 5984.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYN8 searched for maximum PURITY
 363 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 1909 2-PROPANOL, 1-METHOXY-2-METHYL-
 2 27502 15-CROWN-5
 3 9228 1-PROPANOL, 2-(2-METHOXYPROPOXY)-
 4 9227 1,3,3-TRIMETHOXYBUTANE
 5 8822 BUTANOIC ACID, 4-ETHOXY-, METHYL ESTER
 6 8871 METHANE, TERT-BUTOXYISOPROPOXY-
 7 36510 1,4,7,10,13,16-HEXAOXACYCLOOCTADECANE
 8 12385 BUTYRIC ACID, 4-ISOPROPOXY-, METHYL ESTER
 9 5826 2-PROPANOL, 1-ISOPROPOXY-2-METHYL-

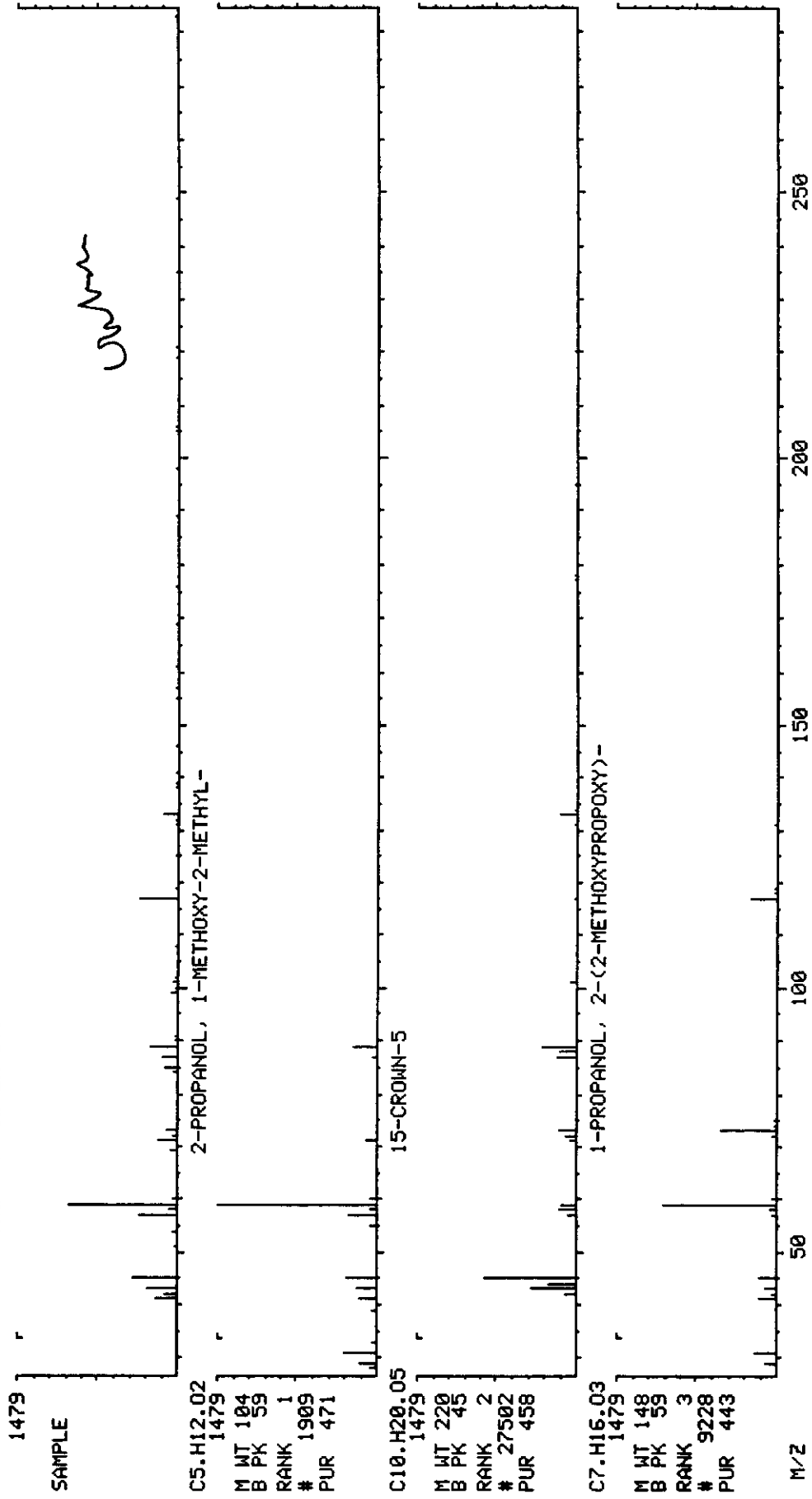
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H12.O2	104	59	471	922	486
2	C10.H20.O5	220	45	458	634	535
3	C7.H16.O3	148	59	443	798	461
4	C7.H16.O3	148	45	430	661	457
5	C7.H14.O3	146	59	425	719	522
6	C8.H18.O2	146	57	419	791	435
7	C12.H24.O6	264	45	413	654	477
8	C8.H16.O3	160	101	413	694	459
9	C7.H16.O2	132	59	412	641	484

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3587-64-2
2	—	—	—	—	33100-27-5
3	—	—	—	—	13588-28-8
4	—	—	—	—	6607-66-5
5	—	—	—	—	29006-04-0
6	—	—	—	—	4346-01-4
7	—	—	—	—	17455-13-9
8	—	—	—	—	29006-05-1
9	—	—	—	—	3587-75-5

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 22:49
 SAMPLE: S-MMS-RB 1/3SA/1ML
 COND5.: UG/ML *1ML *100Z/100Z *(NA/NA)/1/3SA NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #2051
 CALI: 30068109 # 3

BASE M/Z: 59
 RIC: 5984.



Library Search Data: 30068109 #2057 Base m/z: 59
 08/31/98 22:58:00 + 22:53 Cali: 30068109 # 3 RIC: 7840.
 Sample: S-MM5-RB 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 323 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 9227 1,3,3-TRIMETHOXYBUTANE
 2 41712 3,6,9,12,15-PENTAOXANONADECAN-1-OL
 3 5809 1-ETHOXPENTAN-3-OL
 4 3528 2-METHYL-2,3-PENTANEDIOL
 5 1909 2-PROPANOL, 1-METHOXY-2-METHYL-
 6 16192 2-PROPANOL, 1- [1-METHYL-2-(2-PROPENYLOXY)ETHOXY]-
 7 3000 OXIRANE, 2,2-DIMETHYL-3-PROPYL-
 8 34224 2,5,8,11,14-PENTAOXAHEXADECAN-16-OL
 9 16199 BUTYRIC ACID, 4-BUTOXY-, METHYL ESTER

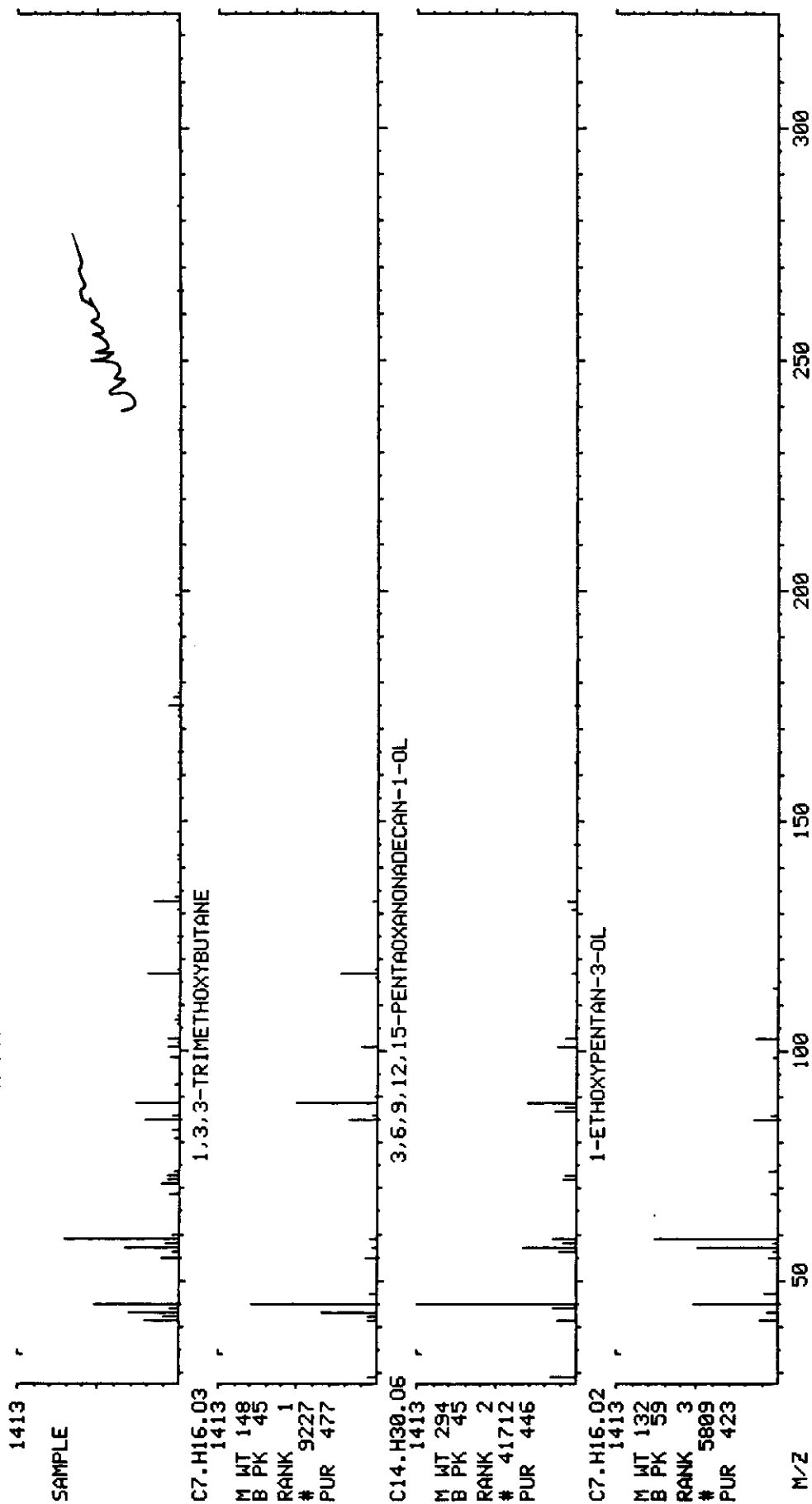
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O3	148	45	477	749	491
2	C14.H30.O6	294	45	446	723	499
3	C7.H16.O2	132	59	423	903	442
4	C6.H14.O2	118	59	407	812	422
5	C5.H12.O2	104	59	404	903	416
6	C9.H18.O3	174	59	396	715	410
7	C7.H14.O	114	43	388	917	395
8	C11.H24.O6	252	45	383	798	432
9	C9.H18.O3	174	57	376	719	435

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	6607-66-5
2	---	---	---	---	1786-94-3
3	---	---	---	---	- -
4	---	---	---	---	7795-80-4
5	---	---	---	---	3587-64-2
6	---	---	---	---	55956-25-7
7	---	---	---	---	17612-35-0
8	---	---	---	---	23778-52-1
9	---	---	---	---	29006-06-2

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 22:58:00 + 22:53
 SAMPLE: S-MMS-RB 1/35A/1ML
 CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068109 #2057
 CALI: 30068109 # 3

BASE M/Z: 59
 RIC: 7840.



TIC SELECTION REPORT

DATA FILE: 30068109

THE FOLLOWING PEAKS WERE REJECTED BECAUSE
AT LEAST 40 % OF THEIR SIZE WAS ACCOUNTED FOR BY
TARGET COMPOUNDS ELUTING WITHIN 4 SCANS OF THE
PEAK TOP.

SCAN	SIZE	AMOUNT
198	273224.	38.262
308	328440.	45.994
340	229200.	32.097
421	136284.	19.085
529	285638.	40.000
722	317824.	37.173
827	341992.	40.000
968	294902.	35.699
1085	330432.	40.000
1383	308168.	58.652
1383	308168.	58.652
1551	210168.	40.000
1782	186560.	40.000

TOTAL NUMBER OF UNIDENTIFIED PEAKS WITH SIZE
GREATER THAN 10 % OF THE CLOSEST INTERNAL STANDARD
THAT DOES NOT HAVE INTERFERENCES = 25

INTERNAL STANDARDS THAT HAVE RIC SIZE LESS THAN
50 % OR GREATER THAN 200 % OF THE ESTIMATED RIC SIZE
ARE CONSIDERED TO HAVE INTERFERENCES AND WILL NOT BE USED
FOR QUANTITATION.

#	INTERNAL STANDARD	RIC SIZE	PERCENT OF ESTIMATED RIC SIZE	SCAN
1	C140 NAPHTHALENE-D8	285638.	130	529
2	C150 ACENAPHTHENE-D10	341992.	127	827
3	C160 PHENANTHRENE-D10	330432.	118	1085
4	C170 CHRYSENE-D12	210168.	120	1551
5	C175 PERYLENE-D12	186560.	122	1782

* INDICATES INTERFERENCE

SIZE = AREA

Semivolatile Organics
Method 0010/8270

Client Name: Pacific Environmental Services
Client ID: S-MM5-4-F, FH, XAD, COND, BH
LAB ID: 300681-0010-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 25 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
Phenol	ND	ug/Sample	3000	GR
bis(2-Chloroethyl)ether	ND	ug/Sample	3000	
2-Chlorophenol	ND	ug/Sample	3000	
1,3-Dichlorobenzene	ND	ug/Sample	3000	
1,4-Dichlorobenzene	ND	ug/Sample	3000	
Benzyl alcohol	ND	ug/Sample	3000	
1,2-Dichlorobenzene	ND	ug/Sample	3000	
2-Methylphenol	ND	ug/Sample	3000	
2,2'-Oxybis(1-chloropropane)	ND	ug/Sample	3000	
3/4-Methylphenol	ND	ug/Sample	3000	
N-Nitroso-di-n-propylamine	ND	ug/Sample	3000	
Hexachloroethane	ND	ug/Sample	3000	
Nitrobenzene	ND	ug/Sample	3000	
Isophorone	ND	ug/Sample	3000	
2-Nitrophenol	ND	ug/Sample	3000	
2,4-Dimethylphenol	ND	ug/Sample	3000	
Benzoic acid	ND	ug/Sample	15000	
bis(2-Chloroethoxy)-methane	ND	ug/Sample	3000	
2,4-Dichlorophenol	ND	ug/Sample	3000	
1,2,4-Trichlorobenzene	ND	ug/Sample	3000	
Naphthalene	1500	ug/Sample	3000	J
4-Chloroaniline	ND	ug/Sample	3000	
Hexachlorobutadiene	ND	ug/Sample	3000	
4-Chloro-3-methylphenol	ND	ug/Sample	3000	
2-Methylnaphthalene	2300	ug/Sample	3000	J
Hexachlorocyclopentadiene	ND	ug/Sample	3000	
2,4,6-Trichlorophenol	ND	ug/Sample	3000	
2,4,5-Trichlorophenol	ND	ug/Sample	15000	
2-Chloronaphthalene	ND	ug/Sample	3000	
2-Nitroaniline	ND	ug/Sample	3000	
Dimethyl phthalate	ND	ug/Sample	3000	
Acenaphthylene	ND	ug/Sample	3000	
3-Nitroaniline	ND	ug/Sample	15000	
Acenaphthene	ND	ug/Sample	3000	
2,4-Dinitrophenol	ND	ug/Sample	15000	

Note G = Reporting limit(s) raised due to matrix interference.

Note J = Result is detected below the reporting limit or is an estimated concentration.

Note R = Reporting limit(s) raised due to sample volume limitations.

ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.

Rev 230787

Semivolatile Organics
Method 0010/8270

(cont.)

Client Name: Pacific Environmental Services
Client ID: S-MM5-4-F, FH, XAD, COND, BH
LAB ID: 300681-0010-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 25 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
4-Nitrophenol	ND	ug/Sample	15000	
Dibenzofuran	ND	ug/Sample	3000	
2,4-Dinitrotoluene	ND	ug/Sample	3000	
2,6-Dinitrotoluene	ND	ug/Sample	3000	
Diethyl phthalate	ND	ug/Sample	3000	
4-Chlorophenyl phenyl ether	ND	ug/Sample	3000	
Fluorene	ND	ug/Sample	3000	
4-Nitroaniline	ND	ug/Sample	15000	
4,6-Dinitro-2-methylphenol	ND	ug/Sample	15000	
N-Nitrosodiphenylamine	ND	ug/Sample	3000	
4-Bromophenyl phenyl ether	ND	ug/Sample	3000	
Hexachlorobenzene	ND	ug/Sample	3000	
Pentachlorophenol	ND	ug/Sample	15000	
Phenanthrene	590	ug/Sample	3000	J
Anthracene	ND	ug/Sample	3000	
Di-n-butyl phthalate	ND	ug/Sample	3000	
Fluoranthene	ND	ug/Sample	3000	
Pyrene	ND	ug/Sample	3000	
Butyl benzyl phthalate	ND	ug/Sample	3000	
3,3'-Dichlorobenzidine	ND	ug/Sample	6000	
Benzo(a)anthracene	ND	ug/Sample	3000	
bis(2-Ethylhexyl)-phthalate	ND	ug/Sample	3000	
Chrysene	ND	ug/Sample	3000	
Di-n-octyl phthalate	ND	ug/Sample	3000	
Benzo(b)fluoranthene	ND	ug/Sample	3000	
Benzo(k)fluoranthene	ND	ug/Sample	3000	
Benzo(a)pyrene	ND	ug/Sample	3000	
Indeno(1,2,3-cd)pyrene	ND	ug/Sample	3000	
Dibenz(a,h)anthracene	ND	ug/Sample	3000	
Benzo(g,h,i)perylene	ND	ug/Sample	3000	
Acetophenone	ND	ug/Sample	3000	
4-Aminobiphenyl	ND	ug/Sample	15000	
Aniline	ND	ug/Sample	3000	
Benzidine	ND	ug/Sample	30000	
3,3'-Dimethylbenzidine	ND	ug/Sample	6000	
N-Nitrosodimethylamine	ND	ug/Sample	3000	
N-Nitrosomorpholine	ND	ug/Sample	3000	

Note J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787

Semivolatile Organics
Method 0010/8270

(cont.)

Client Name: Pacific Environmental Services
Client ID: S-MM5-4-F, FH, XAD, COND, BH
LAB ID: 300681-0010-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 25 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
Pentachloronitrobenzene (PCNB)	ND	ug/Sample	15000	
o-Toluidine	ND	ug/Sample	6000	
2-Methoxybenzenamine	ND	ug/Sample	--	
Biphenyl	ND	ug/Sample	--	
Chloroacetophenone	ND	ug/Sample	--	
Cumene	ND	ug/Sample	--	
DBCP (1,2-Dibromo-3-chloropropane)	ND	ug/Sample	--	
Benzo(e)pyrene	ND	ug/Sample	--	
N-N-Diethylaniline	ND	ug/Sample	--	
Dimethylaniline	ND	ug/Sample	--	
3,3'-Dimethoxybenzidine	ND	ug/Sample	--	
Hydroquinone	ND	ug/Sample	--	
4,4'-Methyl-bis(2-chloroaniline)	ND	ug/Sample	--	
4-Nitrodiphenyl	ND	ug/Sample	--	
Trifluralin	ND	ug/Sample	--	

Surrogate	Recovery	Acceptable Range	
Nitrobenzene-d5	ND %	45 - 107	H
2-Fluorobiphenyl	ND %	62 - 110	
Terphenyl-d14	ND %	58 - 135	
Phenol-d5	ND %	43 - 130	
2-Fluorophenol	ND %	36 - 111	
2,4,6-Tribromophenol	ND %	58 - 131	

Note H = Spiked analyte not detected because of required sample dilution.
ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787

1820

Semivolatiles Library Search (20 Compound TID)
Method 8270

Client Name: Pacific Environmental Services

Client ID: S-MM5-4-F, FH, XAD, COND, BH

LAB ID: 300681-0010-SA

Matrix: AIRTRAIN

Authorized: 30 JUL 98

Sampled: 25 JUL 98

Prepared: NA

Received: 30 JUL 98

Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Result	Units	Reporting Limit	Qualifier
Undecane	7600	ug/Sample	--	0
Unknown	7500	ug/Sample	--	
Unknown alkane	7100	ug/Sample	--	
Decane, 2,5,9-Trimethyl-	6200	ug/Sample	--	0
Unknown	12000	ug/Sample	--	
Unknown alkane	12000	ug/Sample	--	
Unknown hydrocarbon	6900	ug/Sample	--	
Octane, 3,5-dimethyl-	9800	ug/Sample	--	0
Unknown	6400	ug/Sample	--	
Heptadecane, 2,6-dimethyl-	13000	ug/Sample	--	0
Tetradecane	18000	ug/Sample	--	0
Unknown	8600	ug/Sample	--	
Heptadecane, 2,6,10,14 -tetramethyl-	12000	ug/Sample	--	0
Pentadecane	14000	ug/Sample	--	0
Unknown	6400	ug/Sample	--	
Nonadecane	16000	ug/Sample	--	
Undecane, 2,6-dimethyl-	13000	ug/Sample	--	0
Heptadecane, 2,6-dimethyl-	28000	ug/Sample	--	0
Unknown alkane	7600	ug/Sample	--	
Heptadecane, 2,6-dimethyl-	9800	ug/Sample	--	0

Note 0 = Or structurally similar compound (isomer).

NA = Not Applicable

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.

Rev 230787

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068110
Std Id: ST16980831

Sample: S-MM5-4 1/3SA/100M ✓ INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:28
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery		QC limits
	Spiked	Measured	Measured		
CS20 NITROBENZENE-D5	50.0	BDL	0* H	45	107
CS25 2-FLUOROBIPHENY	50.0	BDL	0*	62	110
CS30 TERPHENYL-D14	50.00	122.0	244.	*	58 135
CS45 PHENOL-D5	100.	BDL	0*	43	130
CS50 2-FLUOROPHENOL	100.0	116.0	116.	*	36 111
CS55 2,4,6-TRIBROMOP	100.0	127.0	127. ↓		58 131

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
HEXACHLOROETHANE		ND	UG/A	3000.0
C310 N-NITROSODIMETHYLAMINE		ND	UG/A	3000.0
PYRIDINE		ND	UG/A	6000.0
2-PICOLINE		ND	UG/A	3000.0
N-NITROSOMETHYLETHYLAMINE		ND	UG/A	3000.0
METHYLMETHANESULFONATE		ND	UG/A	3000.0
N-NITROSODIETHYLAMINE		ND	UG/A	3000.0
ETHYLMETHANE SULFONATE		ND	UG/A	3000.0
PENTACHLOROETHANE		ND	UG/A	3000.0
C320 ANILINE		ND	UG/A	3000.0
C315 PHENOL		ND	UG/A	3000.0
C325 BIS(2-CHLOROETHYL)ETHER		ND	UG/A	3000.0
C330 2-CHLOROPHENOL		ND	UG/A	3000.0
C335 1,3-DICHLOROBENZENE		ND	UG/A	3000.0
C340 1,4-DICHLOROBENZENE		ND	UG/A	3000.0
C345 BENZYL ALCOHOL		ND	UG/A	3000.0
C350 1,2-DICHLOROBENZENE		ND	UG/A	3000.0
C355 2-METHYLPHENOL		ND	UG/A	3000.0
C360 2,2'-OXYBIS(1-CLPROPAN)		ND	UG/A	3000.0
C361 ACETOPHENONE		ND	UG/A	3000.0
N-NITROSOPYRROLIDINE		ND	UG/A	3000.0
N-NITROSOMORPHOLINE		ND	UG/A	3000.0
3-METHYL PHENOL		ND	UG/A	3000.0
C365 4-METHYLPHENOL		ND	UG/A	3000.0
C370 N-NITROSO-DI-N-PROPYLAM		ND	UG/A	3000.0
O-TOLUIDINE		ND	UG/A	3000.0
C375 HEXACHLOROETHANE		ND	UG/A	3000.0
C410 NITROBENZENE		ND	UG/A	3000.0
N-NITROSOPIPERIDINE		ND	UG/A	3000.0

Reviewed by:

[Signature] 9.18.98
DEB 10/6/98

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068110
Std Id: ST16980831

Sample: S-MM5-4 1/3SA/100M INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:28
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C415 ISOPHORONE		ND	UG/A	3000.0
C420 2-NITROPHENOL		ND	UG/A	3000.0
C425 2,4-DIMETHYLPHENOL		ND	UG/A	3000.0
C435 BIS(2-CHLOROETHOXY)METH		ND	UG/A	3000.0
C440 2,4-DICHLOROPHENOL		ND	UG/A	3000.0
C430 BENZOIC ACID		ND	UG/A	15000.0
AA-DIMETHYLPHENETHYLAMINE		ND	UG/A	3000.0
C445 1,2,4-TRICHLOROBENZENE		ND	UG/A	3000.0
C450 NAPHTHALENE		ND	UG/A	3000.0
C455 4-CHLOROANALINE		ND	UG/A	3000.0
2,6-DICHLOROPHENOL		ND	UG/A	3000.0
HEXACHLOROPROPENE		ND	UG/A	3000.0
C460 HEXACHLOROBUTADIENE		ND	UG/A	3000.0
P-PHENYLENE DIAMINE		ND	UG/A	3000.0
N-NITROSODI-N-BUTYLAMINE		ND	UG/A	3000.0
C465 4-CHLORO-3-METHYLPHENO		ND	UG/A	3000.0
SAFROLE		ND	UG/A	3000.0
C470 2-METHYLNAPHTHALENE		ND	UG/A	3000.0
1,2,4,5-TETRACHLOROBENZENE		ND	UG/A	3000.0
ISOSAFROLE (#1)		ND	UG/A	6000.0
C510 HEXACHLOROCYCLOPENTADI		ND	UG/A	3000.0
C515 2,4,6-TRICHLOROPHENOL		ND	UG/A	3000.0
C520 2,4,5-TRICHLOROPHENOL		ND	UG/A	3000.0
ISOSAFROLE (#2)		ND	UG/A	6000.0
C525 2-CHLORONAPHTHALENE		ND	UG/A	3000.0
1-CHLORONAPHTHALENE		ND	UG/A	1500.0
C530 2-NITROANILINE		ND	UG/A	15000.0
1,4-NAPHTHOQUINONE		ND	UG/A	3000.0
C535 DIMETHYLPHTHALATE		ND	UG/A	3000.0
1,3-DINITROBENZENE		ND	UG/A	3000.0
C540 ACENAPHTHYLENE		ND	UG/A	3000.0
C543 2,6-DINITROTOLUENE		ND	UG/A	3000.0
C545 3-NITROANILINE		ND	UG/A	15000.0
C550 ACENAPHTHENE		ND	UG/A	3000.0
C555 2,4-DINITROPHENOL		ND	UG/A	15000.0
C565 DIBENZOFURAN		ND	UG/A	3000.0
C560 4-NITROPHENOL		ND	UG/A	15000.0
PENTACHLOROBENZENE		ND	UG/A	3000.0
C570 2,4-DINITROTOLUENE		ND	UG/A	3000.0
1-NAPHTHYLAMINE		ND	UG/A	3000.0
2-NAPHTHYLAMINE		ND	UG/A	3000.0
2,3,4,6-TETRACHLOROPHENOL		ND	UG/A	6000.0
C580 DIETHYLPHTHALATE		ND	UG/A	3000.0
C590 FLUORENE		ND	UG/A	3000.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068110
Std Id: ST16980831

Sample: S-MM5-4 1/3SA/100M INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:28
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C585 4-CHLOROPHENYL-PHENYLE		ND	UG/A	3000.0
5-NITRO-O-TOLUIDINE		ND	UG/A	3000.0
C595 4-NITROANALINE		ND	UG/A	15000.0
C610 4,6-DINITRO-2-METHYLPH		ND	UG/A	15000.0
C615 N-NITROSODIPHENYLAMINE		ND	UG/A	3000.0
C620 AZOBENZENE		ND	UG/A	3000.0
SYM-TRINITROBENZENE		ND	UG/A	3000.0
C625 4-BROMOPHENYL-PHENYLET		ND	UG/A	3000.0
PHENACETIN		ND	UG/A	3000.0
DIALATE	234	ND	UG/A	3000.0
C630 HEXACHLOROBENZENE		ND	UG/A	3000.0
4-AMINOBIIPHENYL		ND	UG/A	3000.0
C635 PENTACHLOROPHENOL		ND	UG/A	15000.0
PRONAMIDE		ND	UG/A	3000.0
PENTACHLORONITROBENZENE		ND	UG/A	15000.0
C640 PHENANTHRENE		ND	UG/A	3000.0
C645 ANTHRACENE		ND	UG/A	3000.0
2SECBUTYL-4,6-DINITROPHENOL		ND	UG/A	3000.0
C647 CARBAZOLE		ND	UG/A	3000.0
C650 DI-N-BUTYLPHTHALATE		ND	UG/A	3000.0
4-NITROQUINOLINE-1-OXIDE		ND	UG/A	3000.0
METHAPYRILENE		ND	UG/A	3000.0
ISODRIN		ND	UG/A	3000.0
C655 FLUORANTHENE		ND	UG/A	3000.0
CHLOROBENZILATE		ND	UG/A	3000.0
C710 BENZIDINE		ND	UG/A	30000.0
C715 PYRENE		ND	UG/A	3000.0
ARAMITE (#1)		ND	UG/A	3000.0
ARAMITE (#2)		ND	UG/A	3000.0
P-DIMETHYLAMINOAZOBENZENE		ND	UG/A	3000.0
3,3'-DIMETHYLBENZIDINE		ND	UG/A	3000.0
KEPONE		ND	UG/A	15000.0
C720 BUTYLBENZYLPHTHALATE		ND	UG/A	3000.0
2-ACETYLAMINOFLUORENE		ND	UG/A	3000.0
C730 BENZO(A)ANTHRACENE		ND	UG/A	3000.0
C725 3,3'-DICHLOBENZIDINE		ND	UG/A	6000.0
C740 CHRYSENE		ND	UG/A	3000.0
C745 BIS(2-ETHYLHEXYL)PHTHA		ND	UG/A	3000.0
3-METHYLCHOLANTHRENE		ND	UG/A	3000.0
C760 DI-N-OCTYL PHTHALATE		ND	UG/A	3000.0
C765 BENZO(B)FLUORANTHENE		ND	UG/A	3000.0
7,12-DIMETHYLBENZANTHRACENE		ND	UG/A	3000.0
C770 BENZO(K)FLUORANTHENE		ND	UG/A	3000.0
HEXACHLOROPHENE		ND	UG/A	3000.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

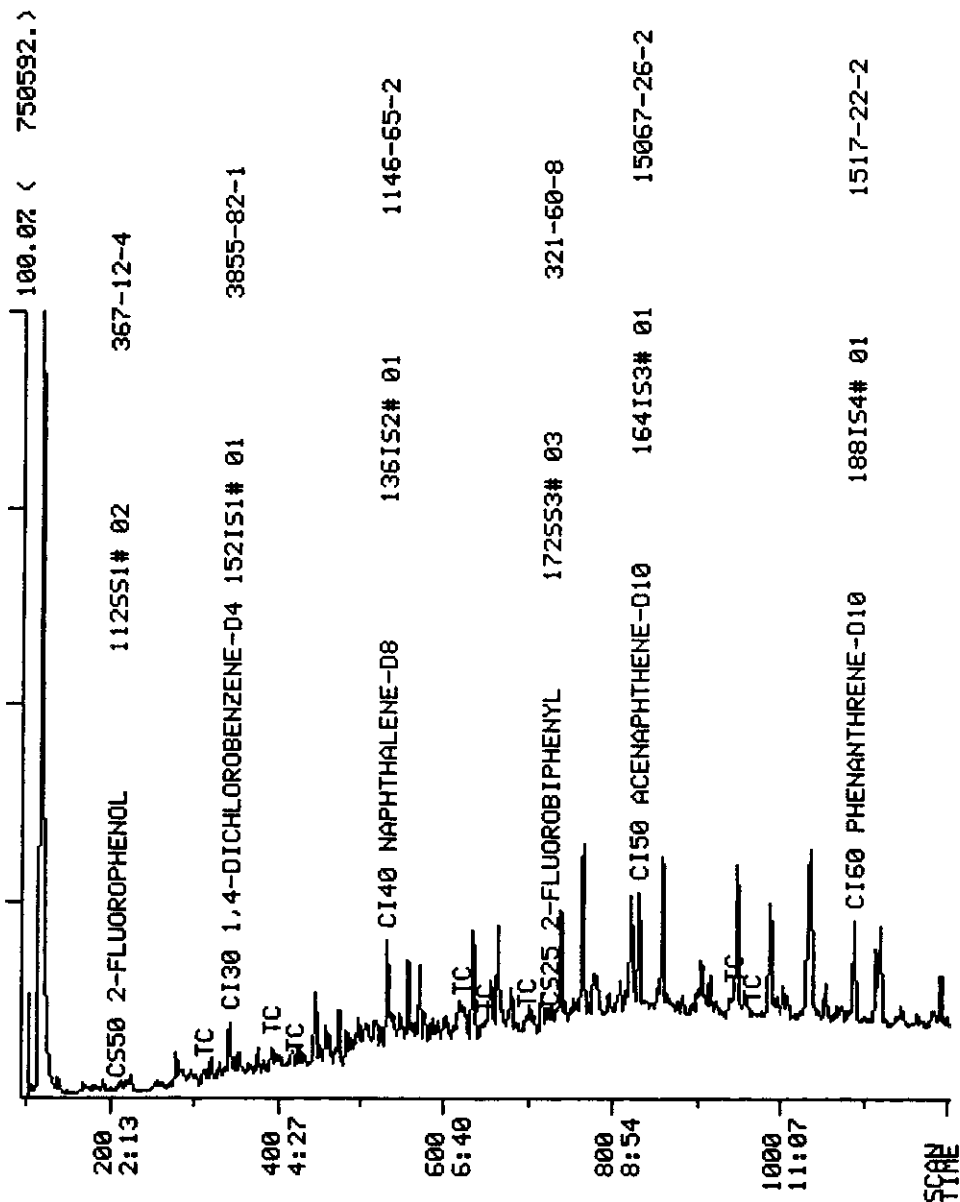
Data File: 30068110
Std Id: ST16980831

Sample: S-MM5-4 1/3SA/100M INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:28
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

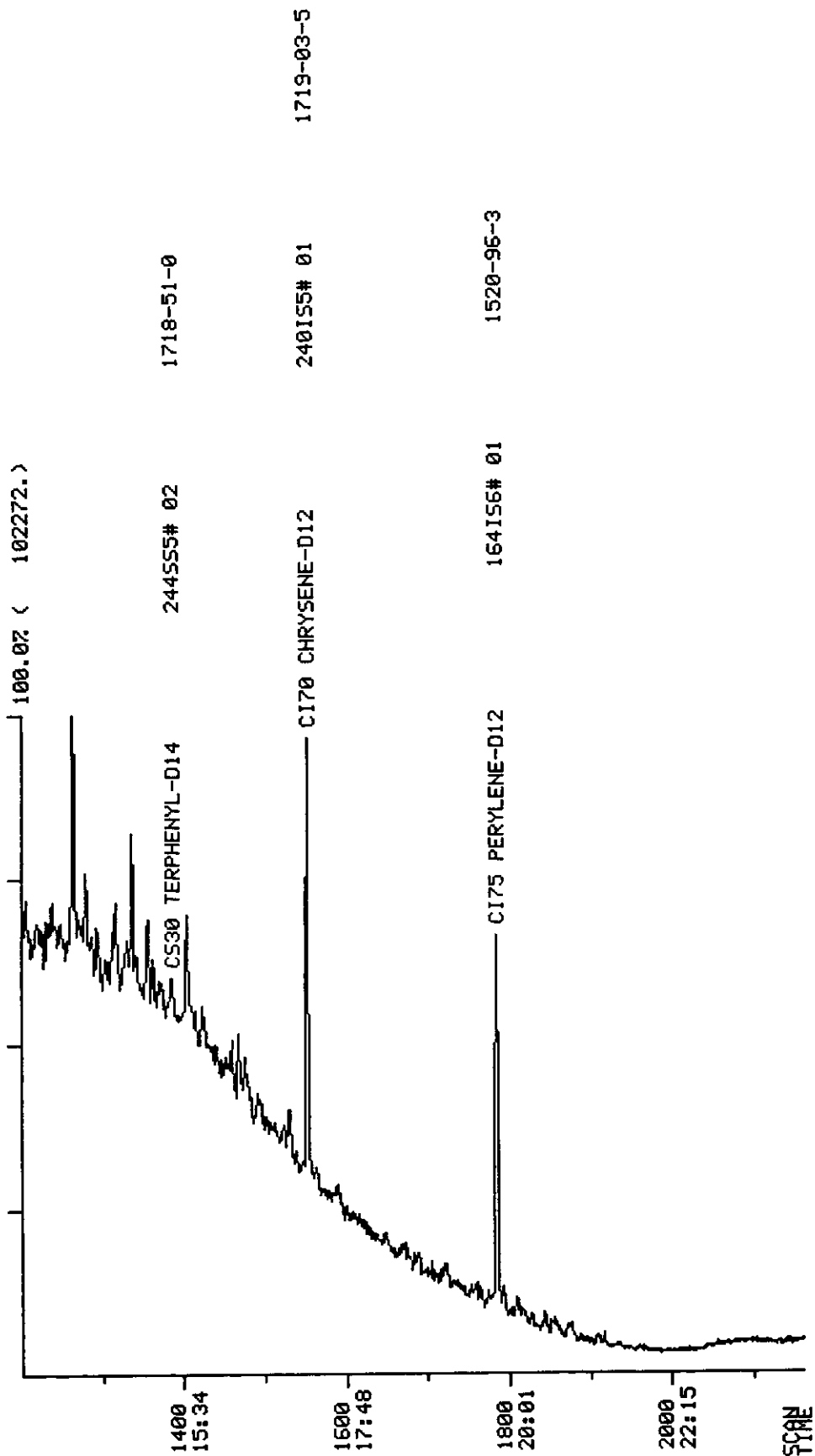
Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C775 BENZO(A)PYRENE		ND	UG/A	3000.0
C780 INDENO(1,2,3-CD)PYRENE		ND	UG/A	3000.0
C785 DIBENZ(A,H)ANTHRACENE		ND	UG/A	3000.0
C790 BENZO(G,H,I)PERYLENE		ND	UG/A	3000.0

DATA FROM FILE: 30068110 SCANS 93 TO 1203 ACQUIRED: 08/31/98 23:28:00
 SAMPLE: S-MMS-4 1/35A/100M CALI: 30068110 #3
 COND.: UG/ML *100%/100% *(NA/NA) /1/35A NA M INST. ID: F16



DATA FROM FILE: 30068110 SCANS 1203 TO 2158 ACQUIRED: 08/31/98 23:28:00
 CALI: 30068110 #3
 SAMPLE: S-MM5-4 1/35A/100M INST. ID: F16
 CONDS.: UG/ML *100ML *100%100% *(NA/NA) >1/35A NA M



ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 30068110

Sample: S-MM5-4 1/3SA/100M INST. ID: F16

Analyst: DAT Instrument Id: F16 Analyzed: 08/31/98 23:28

Compounds with amounts less than 0.20 reported as NOT FOUND

Library		Units: UG/ML					
No Entry	Name	Mass Meth	Scan Ref	Area	RRF(L)	Amount	
1 S1#	1 C130 1,4-DICHLOROBENZENE	152 A VB	340 1	31781.	1.000	40.000	
2 S2#	1 C140 NAPHTHALENE-D8	136 A BB	530 2	115218.	1.000	40.000	
3 S3#	1 C150 ACENAPHTHENE-D10	164 A BB	829 3	63489.	1.000	40.000	
4 S4#	1 C160 PHENANTHRENE-D10	188 A BB	1087 4	109667.	1.000	40.000	
5 S5#	1 C170 CHRYSENE-D12	240 A BB	1552 5	68491.	1.000	40.000	
6 S6#	1 C175 PERYLENE-D12	264 A BV	1783 6	54962.	1.000	40.000	
7 S2#	2 CS20 NITROBENZENE-D5	82 A BB	424 2	535.	0.470	0.396	
8 S3#	3 CS25 2-FLUOROBIPHENYL	172 A BB	723 3	1682.	1.234	0.859	
9 S5#	2 CS30 TERPHENYL-D14	244 A VB	1384 5	2079.	0.995	1.220	
10 S1#	3 CS45 PHENOL-D5	99	1 NOT FOUND				
11 S1#	2 CS50 2-FLUOROPHENOL	112 A VV	206 1	1264.	1.368	1.163	
12 S3#	2 CS55 2,4,6-TRIBROMOPHENO	330 A BB	970 3	474.	0.236	1.267	
13 S4#	4 HEXACHLOROBENZENE-C13	294	4 NOT FOUND				
14 S1#	15 C310 N-NITROSODIMETHYLAM	74	1 NOT FOUND				
15 S1#	20 PYRIDINE	79	1 NOT FOUND				
16 S1#	30 2-PICOLINE	93	1 NOT FOUND				
17 S1#	40 N-NITROSOMETHYLETHYLAMIN	42	1 NOT FOUND				
18 S1#	60 METHYLMETHANESULFONATE	80	1 NOT FOUND				
19 S1#	70 N-NITROSODIETHYLAMINE	102	1 NOT FOUND				
20 S1#	85 ETHYLMETHANE SULFONATE	79	1 NOT FOUND				
21 S1#	95 PENTACHLOROETHANE	117 A BB	306 1	252.	0.602	0.527	
22 S1#	100 C320 ANILINE	93	1 NOT FOUND				
23 S1#	105 C315 PHENOL	94 A BV	311 1	1812.	1.968	1.159	
24 S1#	110 C325 BIS(2-CHLOROETHYL)E	93 A BB	318 1	221.	1.368	0.203	
25 S1#	115 C330 2-CHLOROPHENOL	128	1 NOT FOUND				
26 S1#	125 C335 1,3-DICHLOROBENZENE	146	1 NOT FOUND				
27 S1#	130 C340 1,4-DICHLOROBENZENE	146	1 NOT FOUND				
28 S1#	145 C345 BENZYL ALCOHOL	108	1 NOT FOUND				
29 S1#	150 C350 1,2-DICHLOROBENZENE	146	1 NOT FOUND				
30 S1#	160 C355 2-METHYLPHENOL	108 A BV	392 1	1358.	1.175	1.455	
31 S1#	165 C360 2,2'-OXYBIS(1-CLPRO	45 A BB	394 1	2002.	2.539	0.992	
32 S1#	170 C361 ACETOPHENONE	105	1 NOT FOUND				
33 S1#	175 N-NITROSOPYRROLIDINE	100	1 NOT FOUND				
34 S1#	180 N-NITROSOMORPHOLINE	56	1 NOT FOUND				
35 S1#	182 3-METHYL PHENOL	108	1 NOT FOUND				
36 S1#	185 C365 4-METHYLPHENOL	108 A VB	419 1	1696.	1.276	1.673	
37 S1#	190 C370 N-NITROSO-DI-N-PROP	70 A BB	412 1	677.	0.906	0.941	
38 S1#	195 O-TOLUIDINE	106	1 NOT FOUND				
39 S1#	200 C375 HEXACHLOROETHANE	117	1 NOT FOUND				
40 S2#	10 C410 NITROBENZENE	77	2 NOT FOUND				
41 S2#	15 N-NITROSOPIPERIDINE	42 A BB	449 2	763.	0.320	0.827	
42 S2#	20 C415 ISOPHORONE	82	2 NOT FOUND				
43 S2#	25 C420 2-NITROPHENOL	139	2 NOT FOUND				
44 S2#	30 C425 2,4-DIMETHYLPHENOL	107 A BB	499 2	791.	0.330	0.833	
45 S2#	35 C435 BIS(2-CHLOROETHOXY)	93	2 NOT FOUND				

DSC
10/6/98

46	S2# 40	C440	2,4-DICHLOROPHENOL	162	2	NOT FOUND		
47	S2# 45	C430	BENZOIC ACID	122	2	NOT FOUND		
48	S2# 50	AA-DIMETHYLPHENETHYLAMIN	58	2	NOT FOUND			
49	S2# 55	C445	1,2,4-TRICHLOROBENZ	180	A VV	523	2	334. 0.331 0.350

50	S2# 60	C450 NAPHTHALENE	128 A BV	533 2	14749. 1.022	5.009
51	S2# 80	C455 4-CHLOROANALINE	127 A BB	555 2	464. 0.454	0.355
52	S2# 85	2,6-DICHLOROPHENOL	162	2	NOT FOUND	
53	S2# 90	HEXACHLOROPROPENE	213	2	NOT FOUND	
54	S2# 95	C460 HEXACHLOROBUTADIENE	225	2	NOT FOUND	
55	S2#115	P-PHENYLENE DIAMINE	108	2	NOT FOUND	
56	S2#120	N-NITROSODI-N-BUTYLAMINE	84 A VB	619 2	1201. 0.213	1.957
57	S2#130	C465 4-CHLORO-3-METHYLPH	107	2	NOT FOUND	
58	S2#140	SAFROLE	162 A BB	647 2	942. 0.248	1.320
59	S2#145	C470 2-METHYLNAPHTHALENE	142 A BB	652 2	16754. 0.751	7.742
60	S3# 10	1,2,4,5-TETRACHLOROBENZE	214	3	NOT FOUND	
61	S3# 15	ISOSAFROLE (#1)	162 A BB	697 3	518. 0.044	7.477
62	S3# 20	C510 HEXACHLOROCYCLOPENT	237	3	NOT FOUND	
63	S3# 25	C515 2,4,6-TRICHLOROPHEN	196	3	NOT FOUND	
64	S3# 30	C520 2,4,5-TRICHLOROPHEN	196 A BV	715 3	406. 0.412	0.621
65	S3# 35	ISOSAFROLE (#2)	104 A BB	738 3	283. 0.195	0.915
66	S3# 40	C525 2-CHLORONAPHTHALENE	162	3	NOT FOUND	
67	S3# 42	1-CHLORONAPHTHALENE	162	3	NOT FOUND	
68	S3# 45	C530 2-NITROANALINE	65 A BB	763 3	579. 0.502	0.727
69	S3# 50	1,4-NAPHTHOQUINONE	158	3	NOT FOUND	
70	S3# 55	C535 DIMETHYLPHTHALATE	163	3	NOT FOUND	
71	S3# 60	1,3-DINITROBENZENE	168 A BB	806 3	283. 0.197	0.904
72	S3# 65	C540 ACENAPHTHYLENE	152	3	NOT FOUND	
73	S3# 70	C543 2,6-DINITROTOLUENE	165 A BB	816 3	221. 0.324	0.430
74	S3# 75	C545 3-NITROANILINE	138	3	NOT FOUND	
75	S3# 80	C550 ACENAPHTHENE	153 A BV	834 3	1111. 1.159	0.604
76	S3# 85	C555 2,4-DINITROPHENOL	184	3	NOT FOUND	
77	S3# 90	C565 DIBENZOFURAN	168 A VB	866 3	1273. 1.669	0.480
78	S3# 95	C560 4-NITROPHENOL	109	3	NOT FOUND	
79	S3#100	PENTACHLOROBENZENE	250	3	NOT FOUND	
80	S3#105	C570 2,4-DINITROTOLUENE	165 A BB	881 3	292. 0.397	0.464
81	S3#110	1-NAPHTHYLAMINE	143	3	NOT FOUND	
82	S3#115	2-NAPHTHYLAMINE	143 A BB	901 3	357. 0.966	0.233
83	S3#120	2,3,4,6-TETRACHLOROPHENO	232	3	NOT FOUND	
84	S3#130	C580 DIETHYLPHTHALATE	149	3	NOT FOUND	
85	S3#135	C590 FLUORENE	166 A BB	926 3	1855. 1.298	0.901
86	S3#140	C585 4-CHLOROPHENYL-PHEN	204	3	NOT FOUND	
87	S3#145	5-NITRO-O-TOLUIDINE	152 A VB	942 3	1344. 0.356	2.382
88	S3#150	C595 4-NITROANALINE	138 A BB	947 3	162. 0.307	0.333
89	S4# 10	C610 4,6-DINITRO-2-METHY	198 A BV	950 4	318. 0.132	0.879
90	S4# 15	C615 N-NITROSODIPHENYLAM	169 A BB	963 4	1849. 0.551	1.225
91	S4# 20	C620 AZOBENZENE	77	4	NOT FOUND	
92	S4# 25	SYM-TRINITROBENZENE	75	4	NOT FOUND	
93	S4# 30	C625 4-BROMOPHENYL-PHENY	248 A VB	1021 4	184. 0.222	0.302
94	S4# 35	PHENACETIN	108	4	NOT FOUND	
95	S4# 37	DIALATE	234	4	NOT FOUND	
96	S4# 40	C630 HEXACHLOROBENZENE	284	4	NOT FOUND	
97	S4# 45	4-AMINOBIIPHENYL	169	4	NOT FOUND	
98	S4# 50	C635 PENTACHLOROPHENOL	266 A VB	1063 4	332. 0.155	0.781
99	S4# 55	PRONAMIDE	173	4	NOT FOUND	
100	S4# 60	PENTACHLORONITROBENZENE	237	4	NOT FOUND	
101	S4# 65	C640 PHENANTHRENE	178 A BB	1090 4	5600. 1.033	1.978
102	S4# 70	C645 ANTHRACENE	178	4	NOT FOUND	
103	S4# 75	2SECBUTYL-4,6-DINITROPHE	211	4	NOT FOUND	
104	S4# 80	C647 CARBAZOLE	167	4	NOT FOUND	
105	S4# 85	C650 DI-N-BUTYLPHTHALATE	149	4	NOT FOUND	
106	S4#100	4-NITROQUINOLINE-1-OXIDE	190	4	NOT FOUND	
107	S4#105	METHAPYRILENE	58	4	NOT FOUND	
108	S4#106	ISODRIN	193	4	NOT FOUND	
109	S4#110	C655 FLUORANTHENE	202	4	NOT FOUND	
110	S4#120	CHLOROBENZILATE	139	4	NOT FOUND	

1503

2323

593.4

1330

111 S5# 10 C710 BENZIDINE	184	5	NOT FOUND		
112 S5# 15 C715 PYRENE	202 A BB	1335	5	1384. 1.323	0.611
113 S5# 20 ARAMITE (#1)	185	5	NOT FOUND		
114 S5# 25 ARAMITE (#2)	185	5	NOT FOUND		
115 S5# 30 P-DIMETHYLAMINOAZOBENZEN	120	5	NOT FOUND		
116 S5# 35 3,3'-DIMETHYLBENZIDINE	212	5	NOT FOUND		
117 S5# 37 KEPONE	272	5	NOT FOUND		
118 S5# 40 C720 BUTYLBENZYLPHTHALAT	149	5	NOT FOUND		
119 S5# 45 2-ACETYLAMINOFLUORENE	181	5	NOT FOUND		
120 S5# 50 C730 BENZO(A)ANTHRACENE	228 A BB	1554	5	667. 1.125	0.346
121 S5# 55 C725 3,3'-DICHLOROBENZID	252 A VB	1564	5	342. 0.408	0.490
122 S5# 60 C740 CHRYSENE	228 A BB	1554	5	667. 1.014	0.384
123 S5# 65 C745 BIS(2-ETHYLHEXYL)PH	149	5	NOT FOUND		
124 S5# 85 3-METHYLCHOLANTHRENE	268	5	NOT FOUND		
125 S6# 10 C760 DI-N-OCTYL PHTHALAT	149	6	NOT FOUND		
126 S6# 15 C765 BENZO(B)FLUORANTHEN	252	6	NOT FOUND		
127 S6# 20 7,12-DIMETHYLBENZANTHRAC	256 A BB	1740	6	194. 0.610	0.231
128 S6# 25 C770 BENZO(K)FLUORANTHEN	252	6	NOT FOUND		
129 S6# 30 HEXACHLOROPHENE	196	6	NOT FOUND		
130 S6# 35 C775 BENZO(A)PYRENE	252 A BB	1783	6	522. 1.182	0.321
131 S6# 55 C780 INDENO(1,2,3-CD)PYR	276	6	NOT FOUND		
132 S6# 60 C785 DIBENZ(A,H)ANTHRACE	278	6	NOT FOUND		
133 S6# 65 C790 BENZO(G,H,I)PERYLEN	276	6	NOT FOUND		

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.==+200		4.28	200864.==+200		6.40	108695.==+200		9.71
Lower Limit	14324.==+ 50		3.28	50216.==+ 50		5.40	27174.==+ 50		8.71
Filename									
1 30068110	31781.= 110		3.78	115218.= 114		5.90	63489.= 116		9.22

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.==+200		12.58	124578.==+200		17.76	101500.==+200		20.33
Lower Limit	49260.==+ 50		11.58	31145.==+ 50		16.76	25375.==+ 50		19.33
Filename									
1 30068110	109667.= 111		12.09	68491.= 109		17.26	54962.= 108		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

TARGET COMPOUND COMPARISON

COMPOUND: C450 NAPHTHALENE

128 S2# 60

91-20-3

RAW DATA: 30058110 #533

08/31/98 23:28

SAMPLE: S-MM5-4 1/35A/100M

COND.: UG/ML *100%/100% *(NA/NA) >1/35A NA M

BASE M/Z: 41 RIC: 80128.

INST. ID: F16

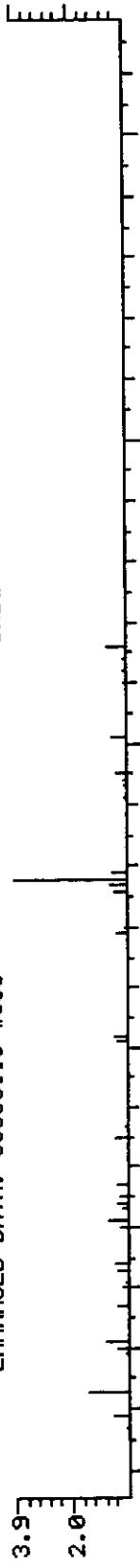
4720.



ENHANCED DATA: 30058110 #533

BASE M/Z: 128 RIC: 12508.

3108.

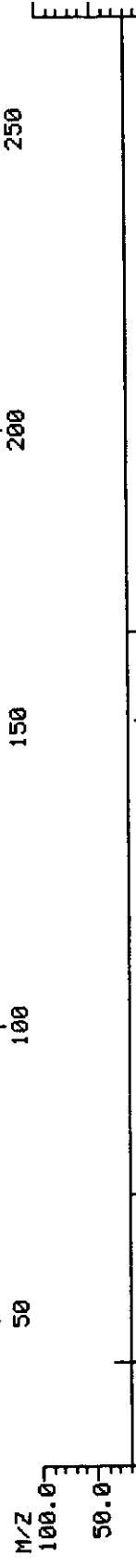
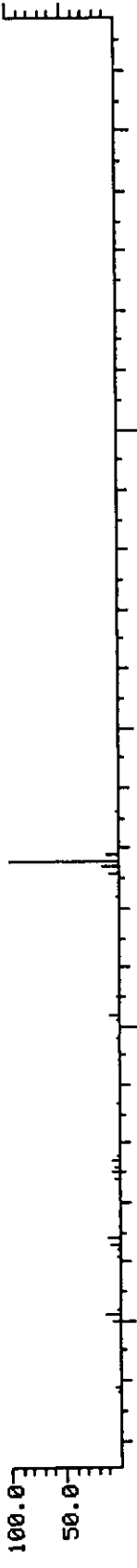


STANDARD FILE: ST16980831 #533

08/31/98 12:31

BASE M/Z: 128 RIC: 195840.

79232.



OUT

TARGET COMPOUND COMPARISON

COMPOUND: C470 2-METHYLNAPHTHALENE 142 S2#145 91-57-6

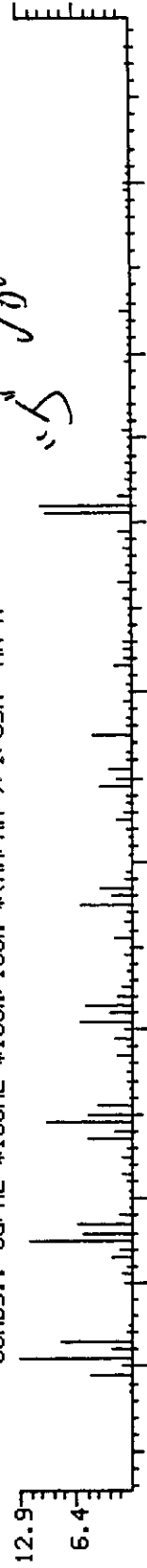
RAW DATA: 30068110 #652 BASE M/Z: 41 RIC: 99840.

08/31/98 23:28

SAMPLE: S-MM5-4 1/35A/100M INST. ID: F16

CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA) >1/35A NA M

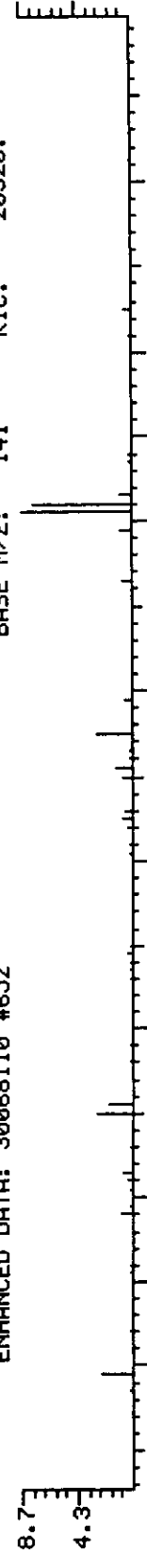
5415.



ENHANCED DATA: 30068110 #652

BASE M/Z: 141 RIC: 20320.

4328.

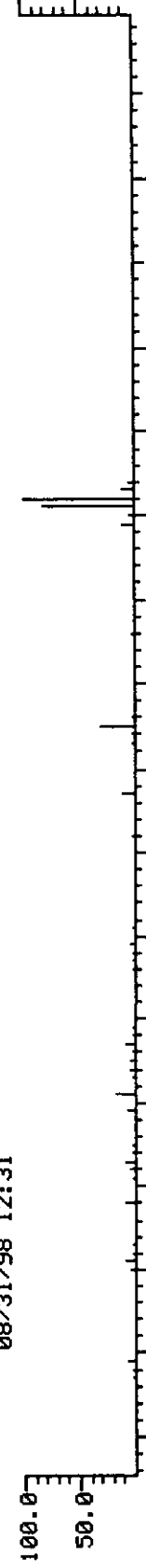


STANDARD FILE: ST16980831 #651

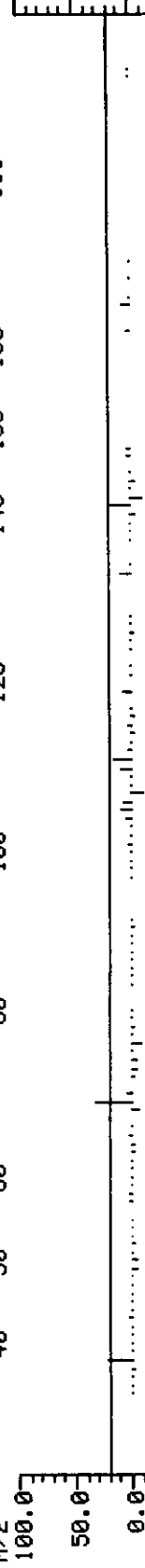
BASE M/Z: 142 RIC: 198144.

08/31/98 12:31

49792.



M/Z 100.0 50.0 0.0 -50.0 -100.0



OUT

TARGET COMPOUND COMPARISON

COMPOUND: C640 PHENANTHRENE

178 S4# 65

85-01-8

RAW DATA: 30058110 #1090

08/31/98 23:28

SAMPLE: S-MM5-4 1/3SA/100M

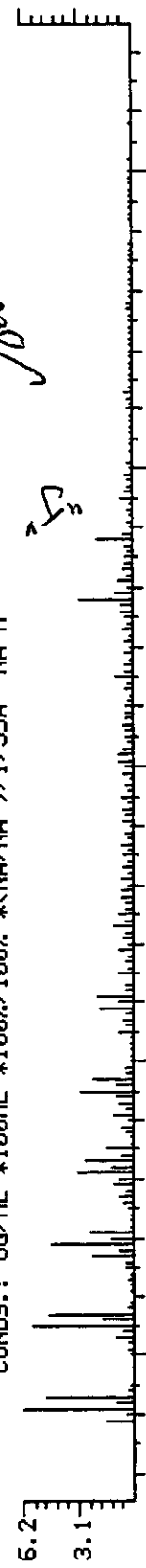
INST. ID: F16

CONDS.: UG/ML *100Z/100Z *(NA/NA)/1/3SA NA M

BASE M/Z: 41

RIC: 91008.

4512.

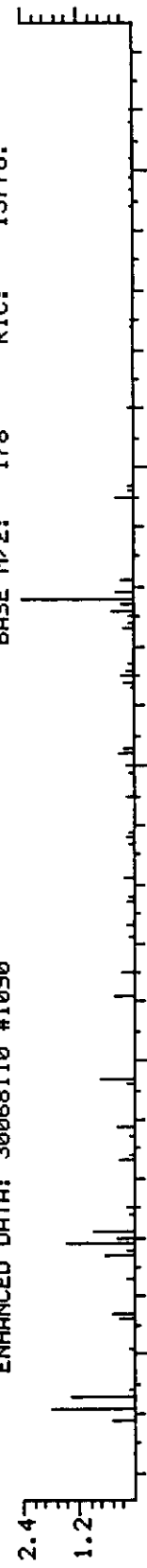


ENHANCED DATA: 30058110 #1090

BASE M/Z: 178

RIC: 13776.

1724.



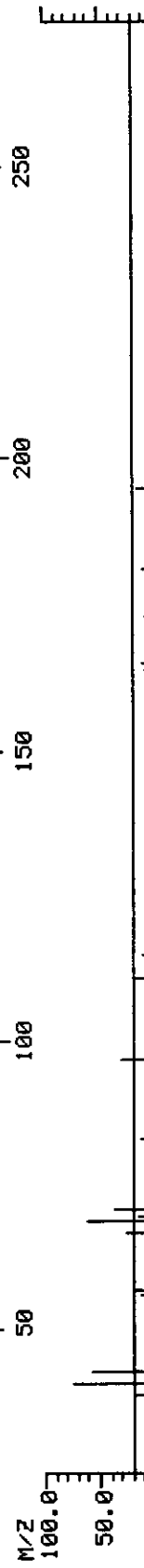
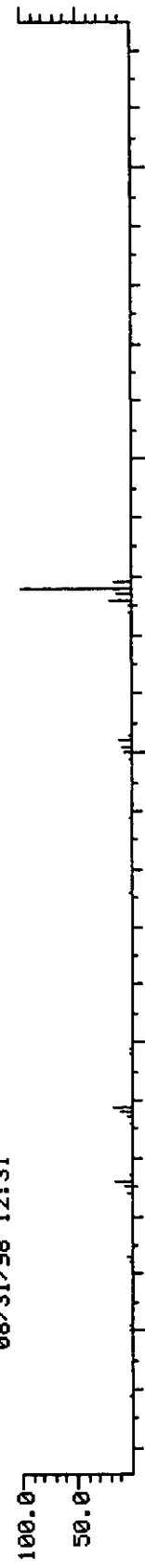
STANDARD FILE: ST16980831 #1091

08/31/98 12:31

BASE M/Z: 178

RIC: 204544.

73344.



OUT

Data Reduced by: EJ Date: 9/18/98
Data Reviewed by: JW Date: 9/18/98

Data File: 30068110

QUANTERRA GC/MS TIC REPORT (Part 1)

Sample: S-MM5-4 1/3SA/100M

INST. ID: F16

Analyst: DAT

Date Analyzed: 08/31/98 23:28

Run Factor: 300.

#	SCAN	Concentration in Sample (UG/A)	CAS #
1	444	7600.	1120-21-4
		UNDECANE	or isomer

2	473	7500.	~~74962-98-4~~
		~~2-TRIDECEN-1-OL, (E)~~	unknown 5700

3	555	7100.	~~62016-37-9~~
		~~OCTANE, 2,4,6-TRIMETHYL~~	alkane 5746400

4	569	6200.	62108-22-9
		DECANE, 2,5,9-TRIMETHYL-	or isomer

5	616	12000.	00-00-0
		UNKNOWN	5700

6	632	12000.	~~54105-67-8~~
		~~HEPTADECANE, 2,6-DIMETHYL~~	alkane

7	654	6900.	~~36653-82-4~~
		~~1-HEXADECANOL~~	unkn. hydrocarbon 57904300

8	662	9800.	15869-93-9
		OCTANE, 3,5-DIMETHYL-	or isomer

9	699	6400.	00-00-0
		UNKNOWN	5700

X	714	4800.	00-00-0
		UNKNOWN	

11	737	13000.	54105-67-8	
HEPTADECANE, 2,6-DIMETHYL-				or isomer
12	763	18000.	629-59-4	
TETRADECANE				
13	776	8600.	00-00-0	5700
UNKNOWN				
14	820	12000.	18344-37-1	
HEPTADECANE, 2,6,10,14-TETRAMETHYL-				or isomer
15	857	14000.	629-62-9	
PENTADECANE				or isomer
16	903	6400.	5234-28-4	
~~OXIRANE, DODECYL-~~				unknown 5700
17	947	16000.	629-92-5	
NONADECANE				or isomer
18	987	13000.	17301-23-4	
UNDECANE, 2,6-DIMETHYL-				or isomer
19	1035	28000.	54105-67-8	
HEPTADECANE, 2,6-DIMETHYL-				
~~20~~	~~1053~~	~~5300.~~	~~7206-19-1~~	
~~3-OCTADECENE, (E)-~~				unknown 5700
21	1113	7600.	29812-79-1	
~~HYDROXYLAMINE, O-DECYL-~~				alkane
22	1118	9800.	54105-67-8	
HEPTADECANE, 2,6-DIMETHYL-				or isomer

X 1190 6400. 629-92-5
NONADECANE or isomer

X 1264 6400. ~~54105-67-8~~
HEPTADECANE, 2,6-DIMETHYL-

alkane

X 1335 5200. ~~00-00-0~~
UNKNOWN

↓ 5700 29/18/98

DATA FILE: 30068110

QUANTERRA GC/MS TIC REPORT (Part 2)

CONCENTRATION = AREA(TIC)*CONC(IS)/AREA(IS)

#	FIT	PURITY	INT.		RT	RRT	AREA	HEIGHT	AMOUNT		LIB	LIB #
			STD.						AS ANALYZED	(UG/ML)		
1	984	701	2		4:56	0.536	231686.	64883.	25.245		NB	11607.
2	883	667	2		5:15	0.571	230400.	53289.	25.105		NB	22482.
3	966	816	2		6:10	0.669	218304.	73600.	23.787		NB	11602.
4	964	831	2		6:19	0.686	190400.	68571.	20.746		NB	19013.
5	866	467	2		6:51	0.743	356160.	34752.	38.808		UK	1.
6	931	784	2		7:01	0.762	370112.	103303.	40.328		NB	37462.
7	922	681	2		7:16	0.789	211506.	41371.	23.046		NB	32420.
8	939	825	2		7:21	0.799	300032.	94196.	32.692		NB	8104.
9	786	462	2		7:46	0.843	194560.	23981.	21.199		UK	1.
10	865	422	2		7:56	0.861	146432.	35328.	15.955		UK	1.
11	953	832	2		8:11	0.889	403712.	103936.	43.989		NB	37462.
12	960	734	2		8:29	0.920	555008.	162304.	60.474		NB	22530.
13	902	440	2		8:37	0.936	263296.	38272.	28.689		UK	1.
14	957	792	2		9:07	0.989	380416.	103424.	41.450		NB	42196.
15	955	770	2		9:31	1.034	436116.	137255.	47.520		NB	25997.
16	918	641	2		10:02	1.089	197120.	44544.	21.478		NB	25971.
17	958	842	2		10:32	1.142	479616.	139008.	52.259		NB	37465.
18	949	827	3		10:58	0.908	400256.	105216.	44.229		NB	19054.
19	971	867	3		11:30	0.952	844160.	153344.	93.281		NB	37462.
20	901	704	3		11:42	0.969	161024.	34944.	17.793		NB	34410.
21	948	794	3		12:22	1.024	228224.	70016.	25.219		NB	15969.
22	941	834	3		12:26	1.029	295680.	89856.	32.673		NB	37462.
23	940	728	3		13:14	1.095	191872.	48640.	21.202		NB	37465.
24	921	706	3		14:03	1.163	194304.	38592.	21.471		NB	37462.
25	855	571	4		14:50	0.860	110720.	22639.	17.169		UK	1.

Library Search Data: 30068110 # 444 Base m/z: 43
 08/31/98 23:28:00 + 4:56 Cali: 30068110 # 3 RIC: 54464.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum PURITY
 892 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 11607 UNDECANE
 2 19015 DECANE, 2,5,6-TRIMETHYL-
 3 11565 ISOCTANE, (ETHENYLOXY)-
 4 8104 OCTANE, 3,5-DIMETHYL-
 5 19523 1-DECANOL, 2-ETHYL-
 6 14793 1-UNDECENE, 4-METHYL-
 7 5151 HEPTANE, 3,4-DIMETHYL-
 8 15969 HYDROXYLAMINE, O-DECYL-
 9 12050 1-OCTANOL, 2,7-DIMETHYL-

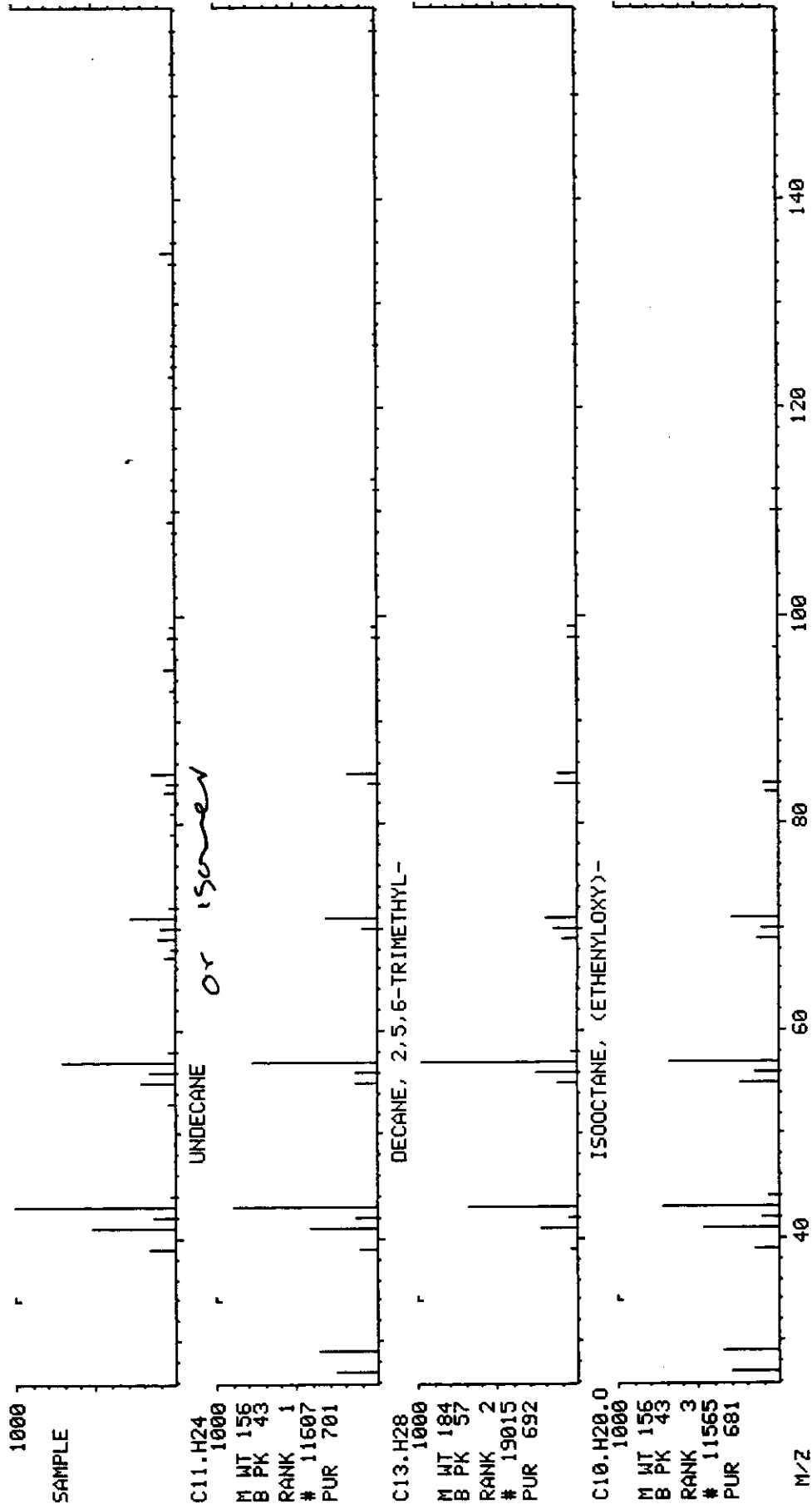
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24	156	43	701	984	703
2	C13.H28	184	57	692	934	692
3	C10.H20.O	156	43	681	975	686
4	C10.H22	142	57	677	932	683
5	C12.H26.O	186	57	677	922	697
6	C12.H24	168	43	670	925	673
7	C9.H20	128	43	668	922	670
8	C10.H23.O.N	173	43	665	930	698
9	C10.H22.O	158	43	665	935	665

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1120-21-4
2	—	—	—	—	62108-23-0
3	—	—	—	—	37769-62-3
4	—	—	—	—	15869-93-9
5	—	—	—	—	21078-65-9
6	—	—	—	—	74630-39-0
7	—	—	—	—	922-28-1
8	—	—	—	—	29812-79-1
9	—	—	—	—	15250-22-3

DATA: 30068110 # 444
CALI: 30068110 # 3
BASE M/Z: 43
RIC: 54464.

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:28:00 + 4:56
SAMPLE: S-MMS-4 1/35A/100M
CONDS.: UG/ML *100Z/100Z *(NA/NA)/1/35A NA M
ENHANCED (S 15B 2N 0T)

INST. ID: F16



Library Search Data: 30068110 # 473 Base m/z: 43
 08/31/98 23:28:00 + 5:16 Cali: 30068110 # 3 RIC: 45440.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

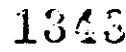
62231 spectra in LIBRARYNB searched for maximum PURITY
 367 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 22482 2-TRIDECEN-1-OL, (E)-
 2 25971 OXIRANE, DODECYL-
 3 18944 OXIRANE, DECYL-
 4 39230 9-EICOSYNE
 5 15294 TRANS-2-UNDECEN-1-OL
 6 37449 OCTADECANAL
 7 28267 3-HEXADECYNE
 8 28261 7-HEXADECYNE
 9 34010 3-OCTADECYNE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H26.O	198	57	667	883	674
2	C14.H28.O	212	41	621	892	654
3	C12.H24.O	184	41	612	919	612
4	C20.H38	278	81	609	876	642
5	C11.H22.O	170	57	609	894	609
6	C18.H36.O	268	43	599	811	671
7	C16.H30	222	67	598	916	603
8	C16.H30	222	67	597	900	603
9	C18.H34	250	67	597	908	602

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	74962-98-4
2	—	—	—	—	3234-28-4
3	—	—	—	—	2855-19-8
4	—	—	—	—	71899-38-2
5	—	—	—	—	- -
6	—	—	—	—	638-66-4
7	—	—	—	—	61886-62-2
8	—	—	—	—	74685-28-2
9	—	—	—	—	61886-64-4

DATA:	30068110	#	473	BASE M/Z:	43
CALI:	30068110	#	3	RIC:	45440.



Library Search Data: 30068110 # 555 Base m/z: 43
 08/31/98 23:28:00 + 6:10 Cali: 30068110 # 3 RIC: 71808.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

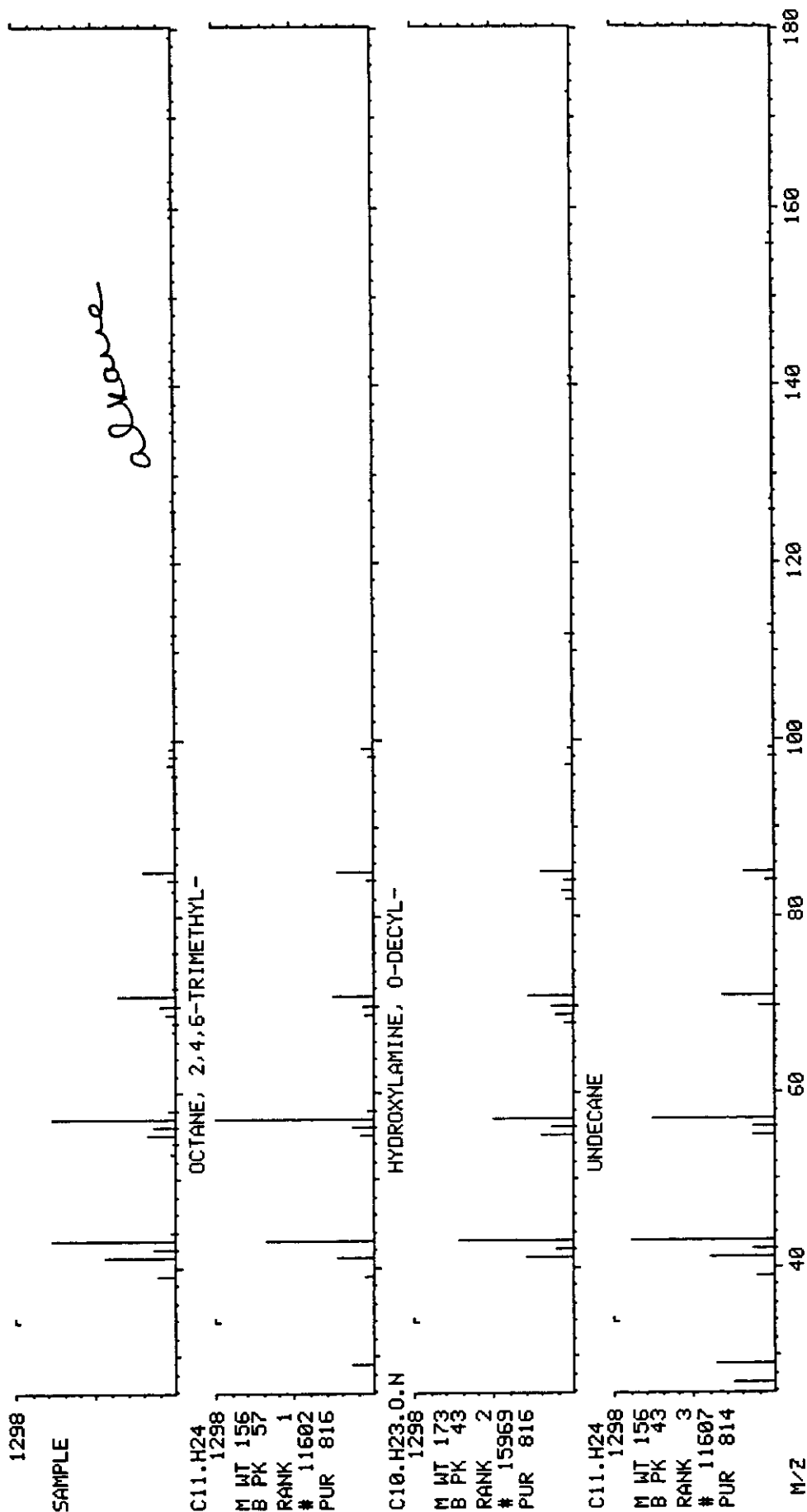
62231 spectra in LIBRARYNB searched for maximum PURITY
 988 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 11602 OCTANE, 2,4,6-TRIMETHYL-
 2 15969 HYDROXYLAMINE, O-DECYL-
 3 11607 UNDECANE
 4 19016 UNDECANE, 4,7-DIMETHYL-
 5 19006 DECANE, 6-ETHYL-2-METHYL-
 6 19015 DECANE, 2,5,6-TRIMETHYL-
 7 14793 1-UNDECENE, 4-METHYL-
 8 22530 TETRADECANE
 9 19028 DECANE, 2,4,6-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24	156	57	816	966	816
2	C10.H23.O.N	173	43	816	940	834
3	C11.H24	156	43	814	952	851
4	C13.H28	184	43	813	946	821
5	C13.H28	184	57	807	940	826
6	C13.H28	184	57	807	926	817
7	C12.H24	168	43	800	932	812
8	C14.H30	198	43	798	910	866
9	C13.H28	184	43	796	924	812

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	62016-37-9
2	—	—	—	—	29812-79-1
3	—	—	—	—	1120-21-4
4	—	—	—	—	17301-32-5
5	—	—	—	—	62108-21-8
6	—	—	—	—	62108-23-0
7	—	—	—	—	74630-39-0
8	—	—	—	—	629-59-4
9	—	—	—	—	62108-27-4

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 6:10
 SAMPLE: S-MM5-4 1/35A/100M
 CONDS.: UG/ML *100ML *100% /100% *(NA/NA) >1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068110 # 555
 CALI: 30068110 # 3
 BASE M/Z: 43
 RIC: 71808.



Library Search Data: 30068110 # 569 Base m/z: 57
 08/31/98 23:28:00 + 6:20 Cali: 30068110 # 3 RIC: 62144.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

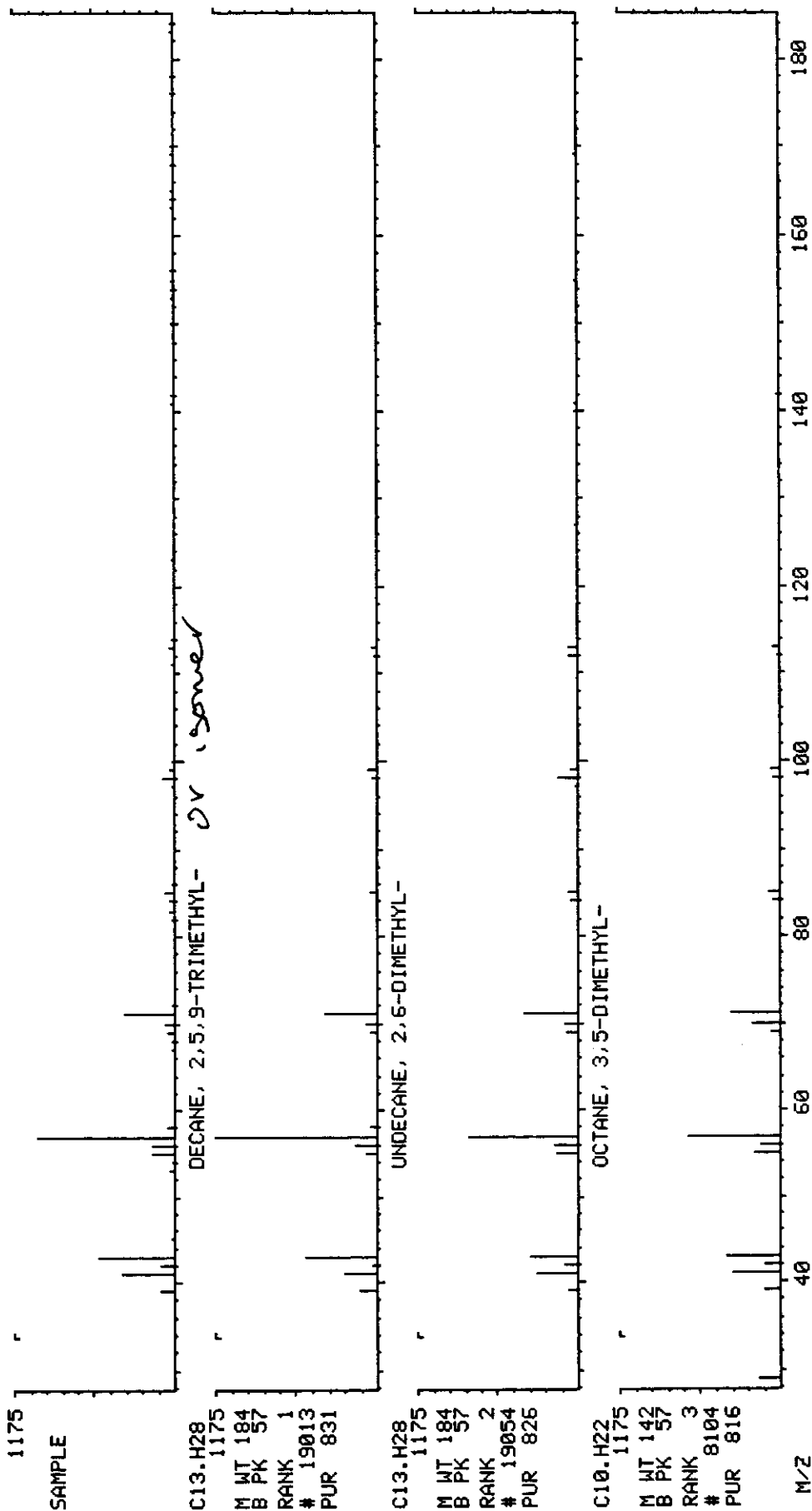
62231 spectra in LIBRARYNB searched for maximum PURITY
 259 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	19013 DECANE, 2,5,9-TRIMETHYL-
2	19054 UNDECANE, 2,6-DIMETHYL-
3	8104 OCTANE, 3,5-DIMETHYL-
4	19026 DECANE, 2,6,8-TRIMETHYL-
5	8077 HEPTANE, 2,3,5-TRIMETHYL-
6	8092 HEPTANE, 2,3,6-TRIMETHYL-
7	5154 HEXANE, 4-ETHYL-2-METHYL-
8	8081 OCTANE, 2,3-DIMETHYL-
9	11602 OCTANE, 2,4,6-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	831	964	841
2	C13.H28	184	57	826	935	863
3	C10.H22	142	57	816	949	824
4	C13.H28	184	57	815	949	836
5	C10.H22	142	57	810	954	810
6	C10.H22	142	57	809	955	809
7	C9.H20	128	57	801	947	806
8	C10.H22	142	57	796	940	798
9	C11.H24	156	57	788	933	798

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	62108-22-9
2	---	---	---	---	17301-23-4
3	---	---	---	---	15869-93-9
4	---	---	---	---	62108-26-3
5	---	---	---	---	20278-85-7
6	---	---	---	---	4032-93-3
7	---	---	---	---	3074-75-7
8	---	---	---	---	7146-60-3
9	---	---	---	---	62016-37-9

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 6:20
 SAMPLE: S-MM5-4 1/35A/100M
 COND5.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068110 # 569
 CALI: 30068110 # 3
 BASE M/Z: 57
 RIC: 62144.



Library Search Data: 30068110 # 616 Base m/z: 55
 08/31/98 23:28:00 + 6:51 Cali: 30068110 # 3 RIC: 31296.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 457 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 24994 1,1'-BICYCLOHEXYL, 2-(1-METHYLETHYL)-, TRANS-
 2 33979 BORINIC ACID, DIETHYL-, 1-CYCLODODECEN-1-YL ESTER
 3 24997 1,1'-BICYCLOHEXYL, 2-PROPYL-, TRANS-
 4 24993 1,1'-BICYCLOHEXYL, 2-(1-METHYLETHYL)-, CIS-
 5 24996 1,1'-BICYCLOHEXYL, 2-PROPYL-, CIS-
 6 39230 9-EICOSYNE
 7 32770 1,15-PENTADECANEDIOL
 8 29229 CYCLOPENTADECANOL-
 9 14159 1,11-DODECADIENE

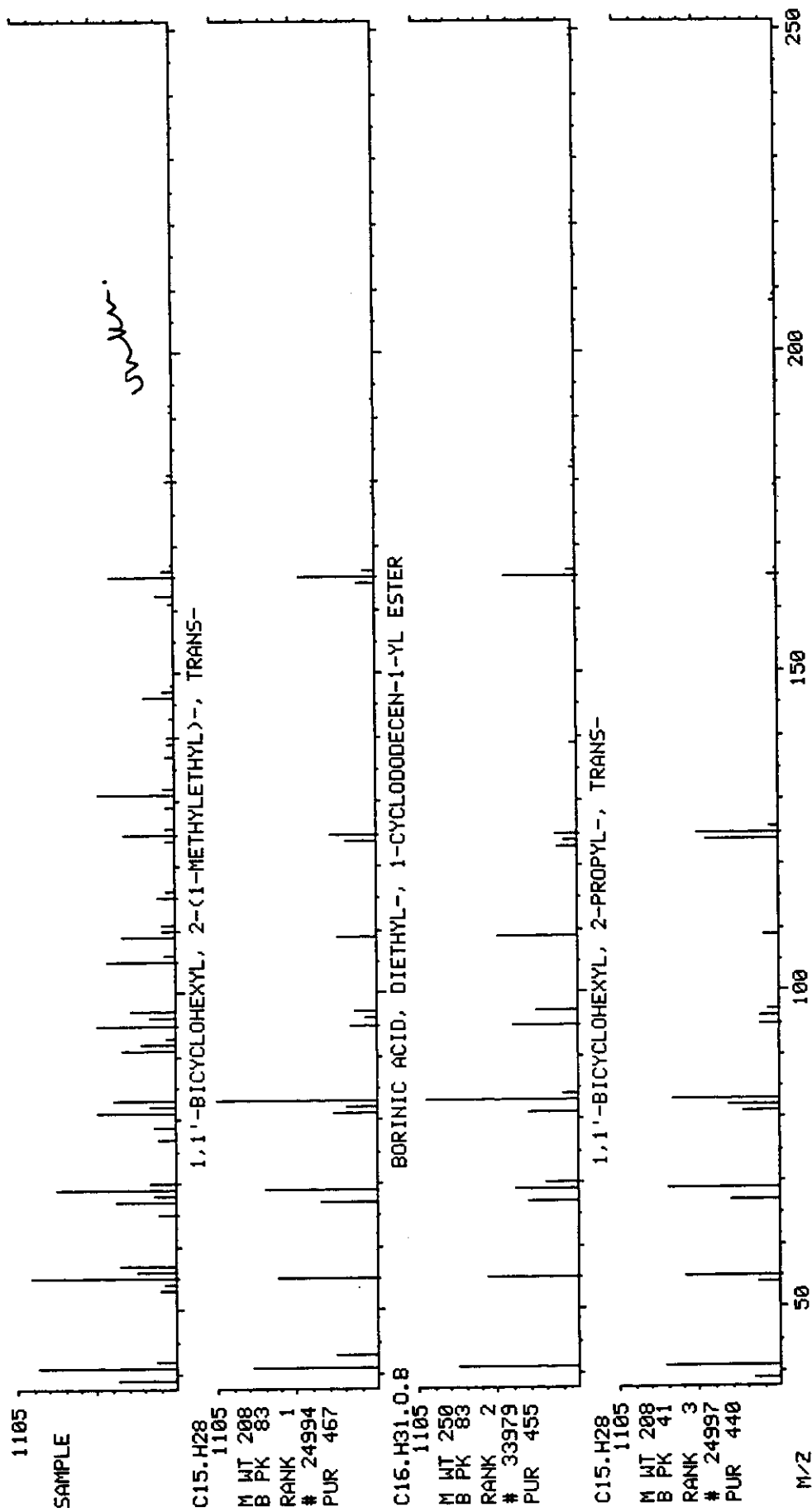
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H28	208	83	467	866	496
2	C16.H31.O.B	250	83	455	875	492
3	C15.H28	208	41	440	789	448
4	C15.H28	208	83	430	834	477
5	C15.H28	208	69	416	787	435
6	C20.H38	278	81	413	753	464
7	C15.H32.O2	244	55	410	890	426
8	C15.H30.O	226	55	408	743	451
9	C12.H22	166	55	405	838	421

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	50991-16-7
2	—	—	—	—	61142-73-2
3	—	—	—	—	54934-89-3
4	—	—	—	—	50991-15-6
5	—	—	—	—	54934-88-2
6	—	—	—	—	71899-38-2
7	—	—	—	—	- - -
8	—	—	—	—	4727-17-7
9	—	—	—	—	5876-87-9

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 6:51
 SAMPLE: S-MM5-4 1/35A/100M
 COND.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068110 # 616
 CALI: 30068110 # 3

BASE M/Z: 55
 RIC: 31296.



Library Search Data: 30068110 # 632 Base m/z: 57
 08/31/98 23:28:00 + 7:02 Cali: 30068110 # 3 RIC: 90240.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum PURITY
 312 matched at least 8 of the 16 largest peaks in the unknown

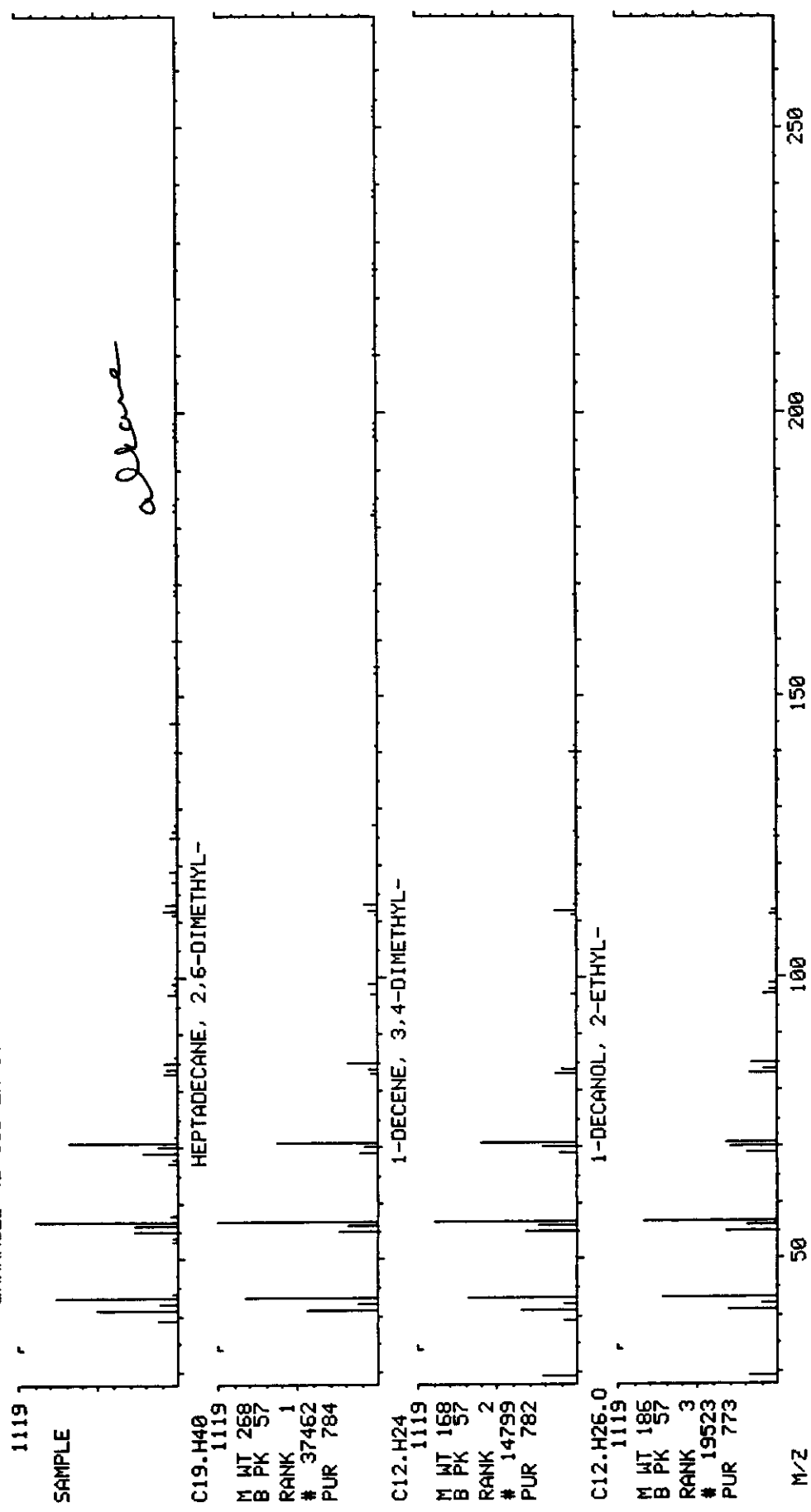
Rank In. Name
 1 37462 HEPTADECANE, 2,6-DIMETHYL-
 2 14799 1-DECENE, 3,4-DIMETHYL-
 3 19523 1-DECANOL, 2-ETHYL-
 4 14751 2-UNDECENE, 5-METHYL-
 5 22534 TRIDECANE, 7-METHYL-
 6 8539 1-PENTANOL, 4-METHYL-2-PROPYL-
 7 15353 2,6-DIMETHYLDECANE
 8 25994 DODECANE, 2,6,11-TRIMETHYL-
 9 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	784	931	815
2	C12.H24	168	57	782	953	785
3	C12.H26.O	186	57	773	934	779
4	C12.H24	168	57	768	966	768
5	C14.H30	198	57	766	921	780
6	C9.H20.O	144	57	756	974	756
7	C12.H26	170	43	753	915	762
8	C15.H32	212	57	751	947	756
9	C21.H44	296	57	748	908	788

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54105-67-8
2	—	—	—	—	50871-03-9
3	—	—	—	—	21078-65-9
4	—	—	—	—	56851-34-4
5	—	—	—	—	26730-14-3
6	—	—	—	—	54004-41-0
7	—	—	—	—	13150-81-7
8	—	—	—	—	31295-56-4
9	—	—	—	—	18344-37-1

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 7:02
 SAMPLE: S-MM5-4 1/35A/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068110 # 632
 CALI: 30068110 # 3
 BASE M/Z: 57
 RIC: 90240.



Library Search Data: 30068110 # 654 Base m/z: 41
 08/31/98 23:28:00 + 7:16 Cali: 30068110 # 3 RIC: 43584.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 820 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 32420 1-HEXADECANOL
 2 21962 3-TETRADECENE, (Z)-
 3 19526 1-DODECANOL
 4 21963 3-TETRADECENE, (E)-
 5 28772 7-HEXADECENE, (Z)-
 6 31653 1-HEPTADECENE
 7 28768 3-HEXADECENE, (Z)-
 8 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 9 34411 5-OCTADECENE, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H34.O	242	55	681	922	692
2	C14.H28	196	41	680	948	689
3	C12.H26.O	186	43	678	950	687
4	C14.H28	196	41	677	944	687
5	C16.H32	224	55	677	912	707
6	C17.H34	238	55	676	922	699
7	C16.H32	224	55	674	915	707
8	C18.H36.O2	284	55	674	903	706
9	C18.H36	252	55	672	905	704

Rank	Ret.Time	B.P.int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	36653-82-4
2	—	—	—	—	41446-67-7
3	—	—	—	—	112-53-8
4	—	—	—	—	41446-68-8
5	—	—	—	—	35507-09-6
6	—	—	—	—	6765-39-5
7	—	—	—	—	34303-81-6
8	—	—	—	—	13980-12-6
9	—	—	—	—	7206-21-5

BASE M/Z: 41
RIC: 43584.

MID LIBRARY SEARCH (LIBRARYNB)

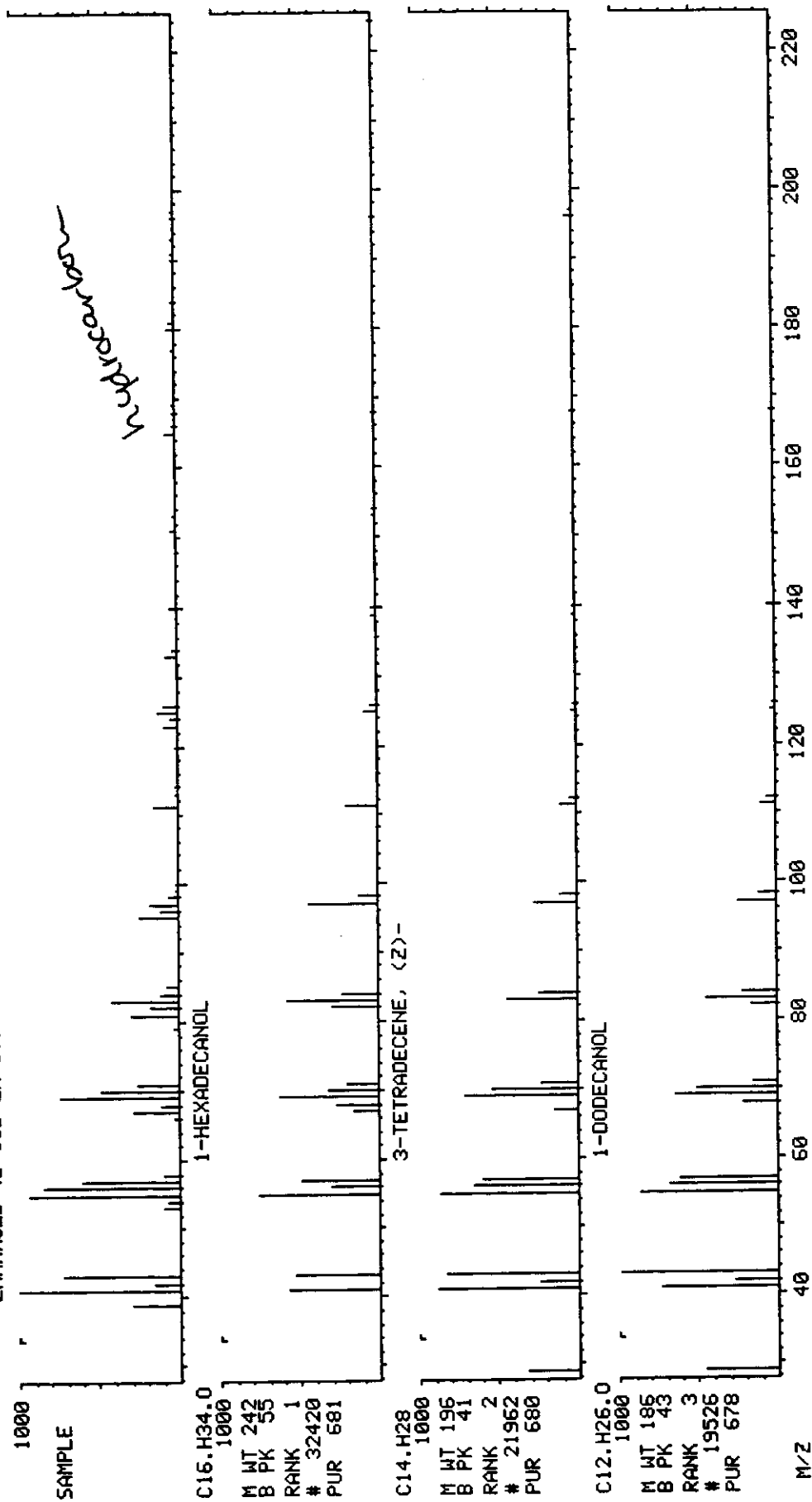
08/31/98 23:28:00 + 7:16

SAMPLE: S-MM5-4 1/35A/100M

INST. ID: F16

CONDOS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M

ENHANCED (S 15B 2N 0T)



Library Search Data: 30068110 # 662 Base m/z: 43
 08/31/98 23:28:00 + 7:22 Cali: 30068110 # 3 RIC: 88832.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

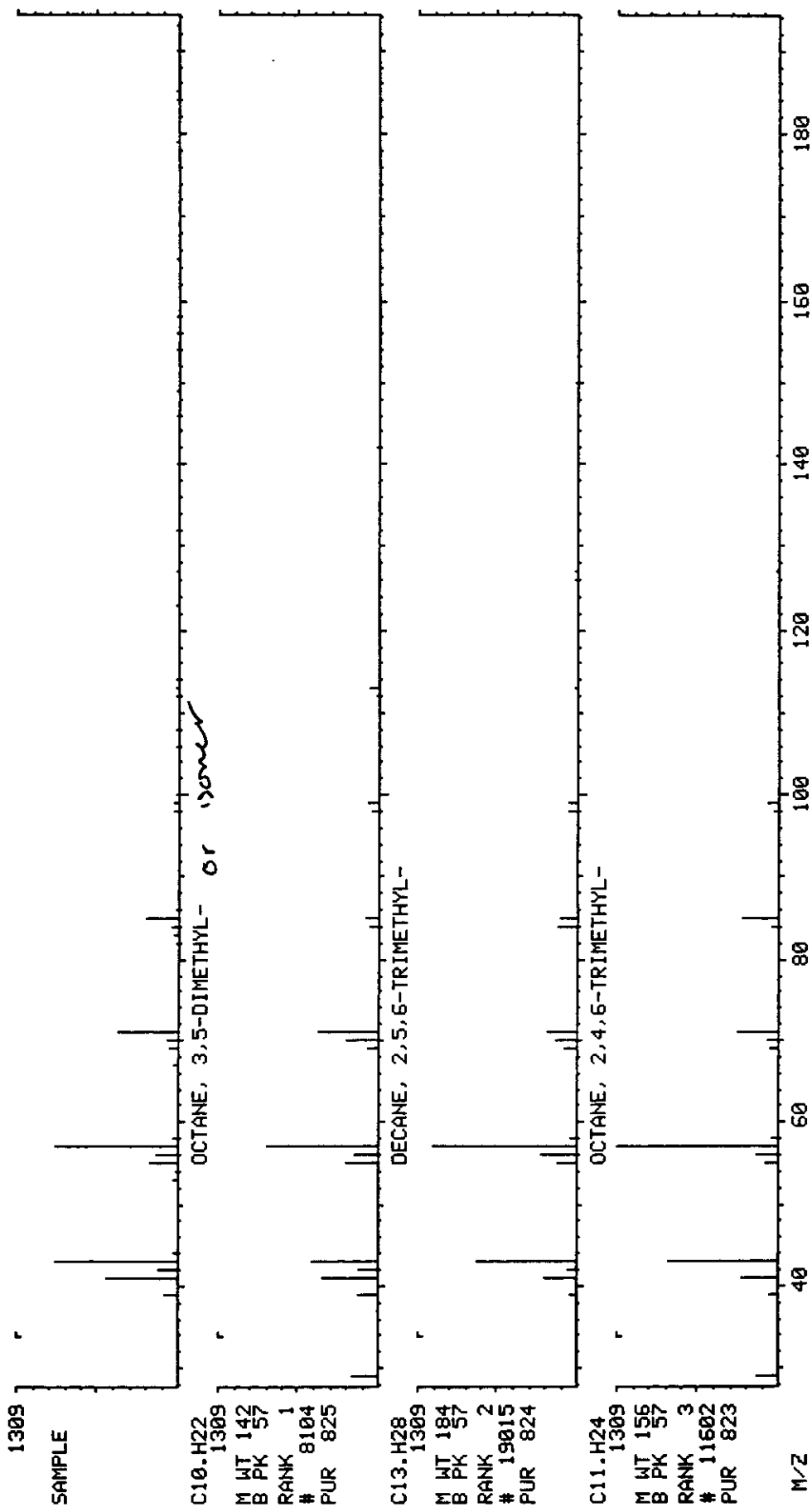
62231 spectra in LIBRARYNB searched for maximum PURITY
 346 matched at least 8 of the 16 largest peaks in the unknown

Rank In. Name
 1 8104 OCTANE, 3,5-DIMETHYL-
 2 19015 DECANE, 2,5,6-TRIMETHYL-
 3 11602 OCTANE, 2,4,6-TRIMETHYL-
 4 19016 UNDECANE, 4,7-DIMETHYL-
 5 19013 DECANE, 2,5,9-TRIMETHYL-
 6 19026 DECANE, 2,6,8-TRIMETHYL-
 7 18985 TRIDECANE
 8 8102 HEXANE, 2,2,3,3-TETRAMETHYL-
 9 19054 UNDECANE, 2,6-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	825	939	832
2	C13.H28	184	57	824	931	828
3	C11.H24	156	57	823	968	825
4	C13.H28	184	43	822	934	843
5	C13.H28	184	57	815	935	815
6	C13.H28	184	57	811	928	828
7	C13.H28	184	57	808	939	830
8	C10.H22	142	57	800	923	800
9	C13.H28	184	57	797	889	822

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	15869-93-9
2	—	—	—	—	62108-23-0
3	—	—	—	—	62016-37-9
4	—	—	—	—	17301-32-5
5	—	—	—	—	62108-22-9
6	—	—	—	—	62108-26-3
7	—	—	—	—	629-50-5
8	—	—	—	—	13475-81-5
9	—	—	—	—	17301-23-4

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 7:22
 SAMPLE: S-MM5-4 1/35A/100M
 COND.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068110 # 662
 CALI: 30068110 # 3
 BASE M/Z: 43
 RIC: 88832.



Library Search Data: 30068110 # 699 Base m/z: 81
 08/31/98 23:28:00 + 7:46 Cali: 30068110 # 3 RIC: 23040.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 366 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 28273 8-HEXADECYNE
 2 36677 7-OCTADECYNE, 2-METHYL-
 3 28267 3-HEXADECYNE
 4 34010 3-OCTADECYNE
 5 36681 1H-INDENE, 2-BUTYL-5-HEXYLOCTAHYDRO-
 6 10423 3-UNDECYNE
 7 25001 CYCLOHEXANE, 1-(CYCLOHEXYLMETHYL)-2-ETHYL-, TRANS-
 8 25003 CYCLOHEXANE, 1-(CYCLOHEXYLMETHYL)-2-ETHYL-, CIS-
 9 21386 2(1H)-BENZOCYCLOOCTENONE, DECAHYDRO-10A-METHYL-, TRANS-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H30	222	81	462	786	509
2	C19.H36	264	81	459	760	506
3	C16.H30	222	67	447	731	464
4	C18.H34	250	67	434	821	455
5	C19.H36	264	95	433	747	544
6	C11.H20	152	67	425	894	425
7	C15.H28	208	55	424	722	452
8	C15.H28	208	55	420	714	451
9	C13.H22.O	194	55	418	766	459

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	19781-86-3
2	---	---	---	---	35354-38-2
3	---	---	---	---	61886-62-2
4	---	---	---	---	61886-64-4
5	---	---	---	---	55044-33-2
6	---	---	---	---	60212-30-8
7	---	---	---	---	54934-92-8
8	---	---	---	---	54934-93-9
9	---	---	---	---	55103-68-9

MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 23:28:00 + 7:46

SAMPLE: 5-MM5-4 1/35A/100M

COND5.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M

ENHANCED (S 15B 2N 0T)

DATA: 30068110 # 699

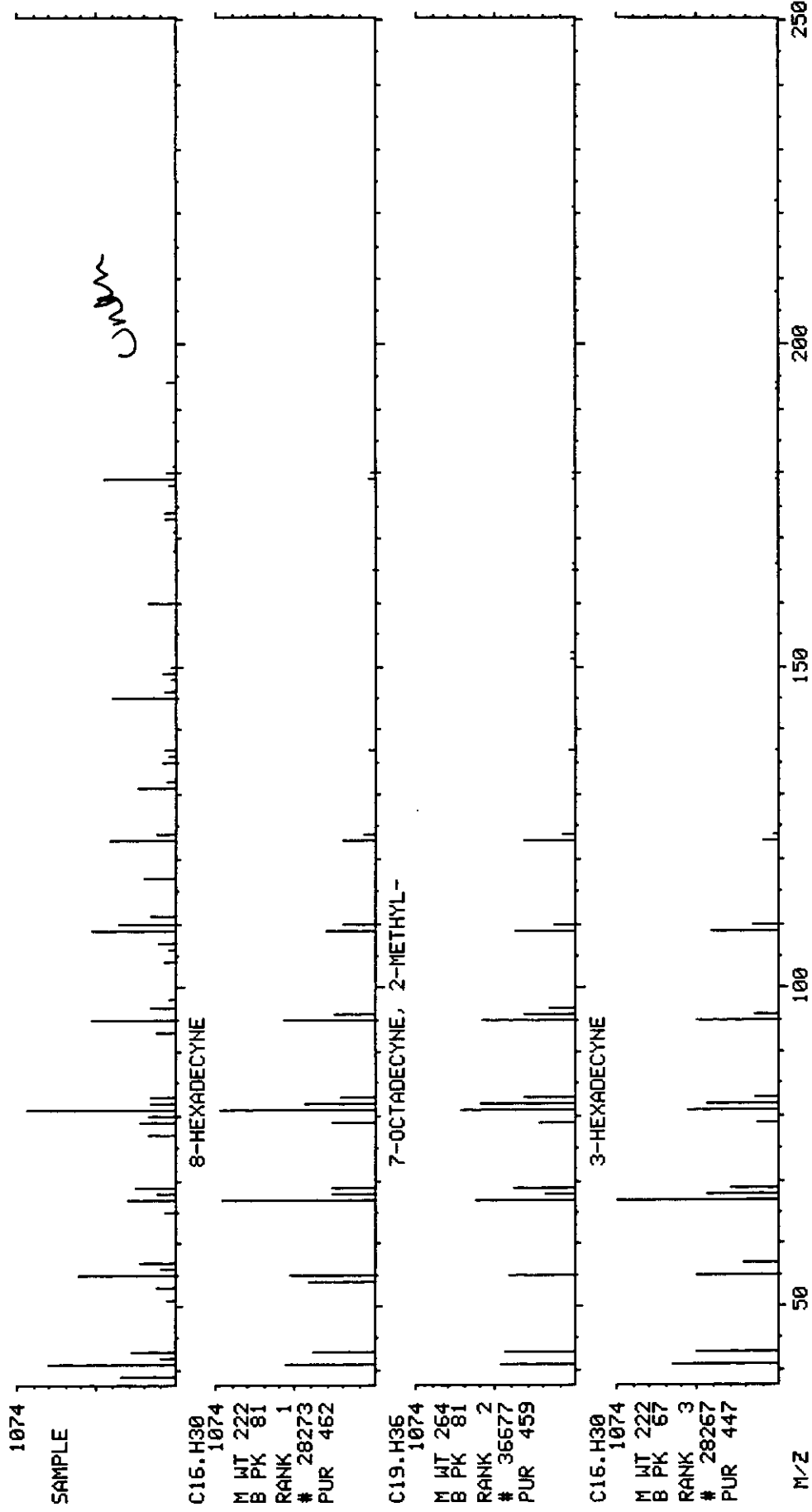
CALI: 30068110 # 3

INST. ID: F16

*(NA/NA)/1/35A NA M

BASE M/Z: 81

RIC: 23040.



Library Search Data: 30068110 # 714 Base m/z: 41
 08/31/98 23:28:00 + 7:57 Cali: 30068110 # 3 RIC: 36480.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 212 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 21927 TRANS-2-TRIDECENAL
 2 32052 OXIRANE, TETRADECYL-
 3 31486 ACETAMIDE, N-METHYL-N-[4-[4-METHOXY-1-HEXAHYDROPYRIDYL]-2-BUTYNYL]-
 4 35931 HEXADECANE, 1-CHLORO-
 5 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 6 46251 DODECANE, 1,2-DIBROMO-
 7 40233 NONADECANOL
 8 42521 1-EICOSANOL
 9 56499 9-OCTADECENOIC ACID (Z)-, 2-(ACETYLOXY)-1-[(ACETYLOXY)METHYL]ETHYL *

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H24.O	196	41	422	865	444
2	C16.H32.O	240	41	417	918	431
3	C13.H22.O2.N2	238	43	409	829	472
4	C16.H33.CL	260	57	408	921	419
5	C18.H36.O2	284	55	406	883	439
6	C12.H24.8R2	326	41	403	802	482
7	C19.H40.O	284	43	401	898	431
8	C20.H42.O	298	43	398	892	430
9	C25.H44.O6	440	43	394	731	497

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	- -
2	—	—	—	—	7320-37-8
3	—	—	—	—	- -
4	—	—	—	—	4860-03-1
5	—	—	—	—	13980-12-6
6	—	—	—	—	55334-42-4
7	—	—	—	—	52783-43-4
8	—	—	—	—	629-96-9
9	—	—	—	—	55401-63-3

MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 23:28:00 + 7:57

SAMPLE: S-MM5-4 1/35A/100M

COND5.: UG/ML *100ML *100Z/100Z *(NA/NA) >1/35A NA M

ENHANCED (S 158 2N 0T)

DATA: 30068110 # 714

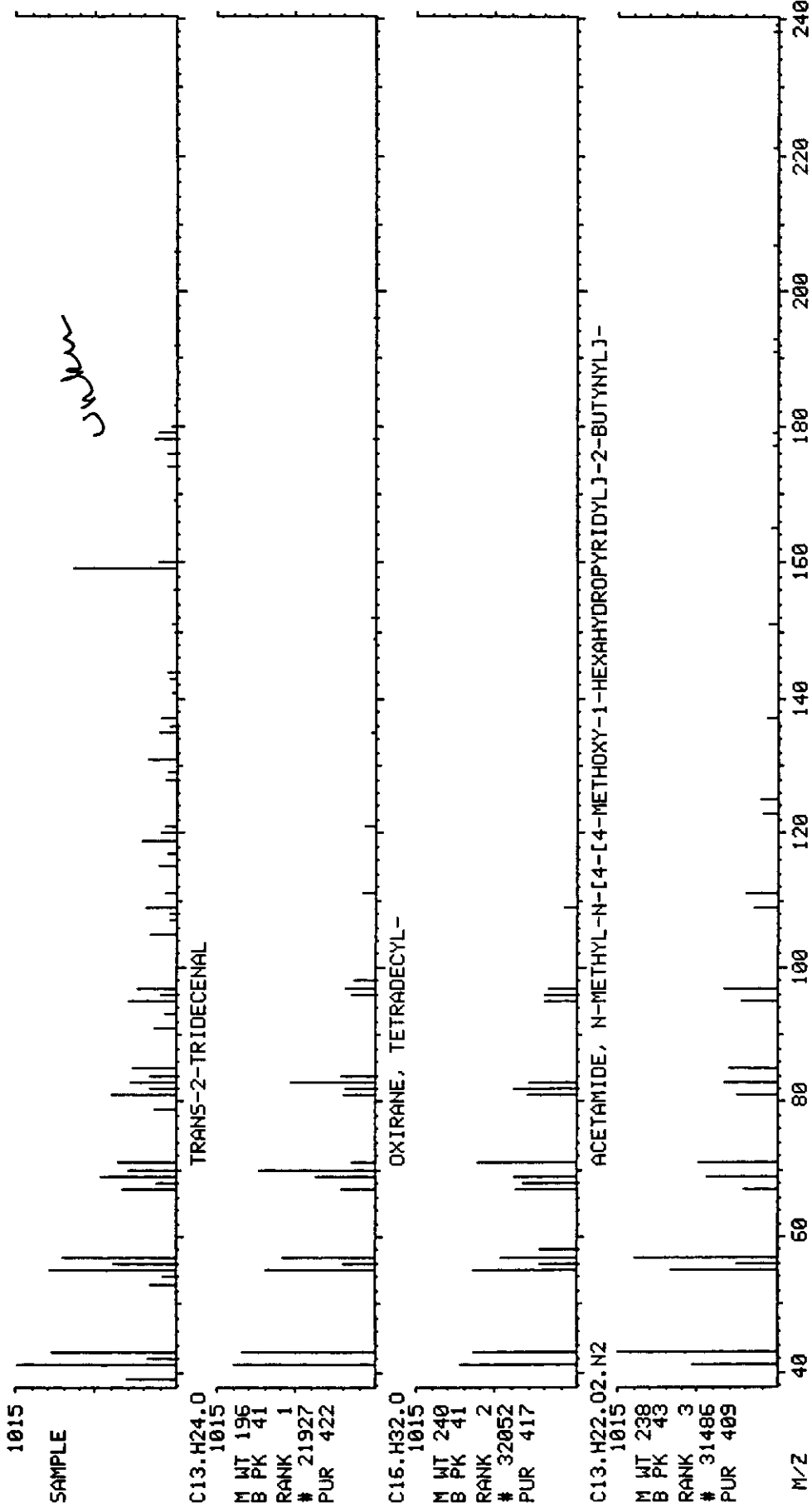
CALI: 30068110 # 3

INST. ID: F16

NA M

BASE M/Z: 41

RIC: 36480.



14
C2
C4
C6

Library Search Data: 30068110 # 737 Base m/z: 57
 08/31/98 23:28:00 + 8:12 Cali: 30068110 # 3 RIC: 99328.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 712 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37462 HEPTADECANE, 2,6-DIMETHYL-
 2 25991 DODECANE, 2,6,10-TRIMETHYL-
 3 22535 DODECANE, 4,6-DIMETHYL-
 4 26001 DODECANE, 2,7,10-TRIMETHYL-
 5 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 6 25994 DODECANE, 2,6,11-TRIMETHYL-
 7 15352 UNDECANE, 2-METHYL-
 8 37465 NONADECANE
 9 18998 UNDECANE, 3,7-DIMETHYL-

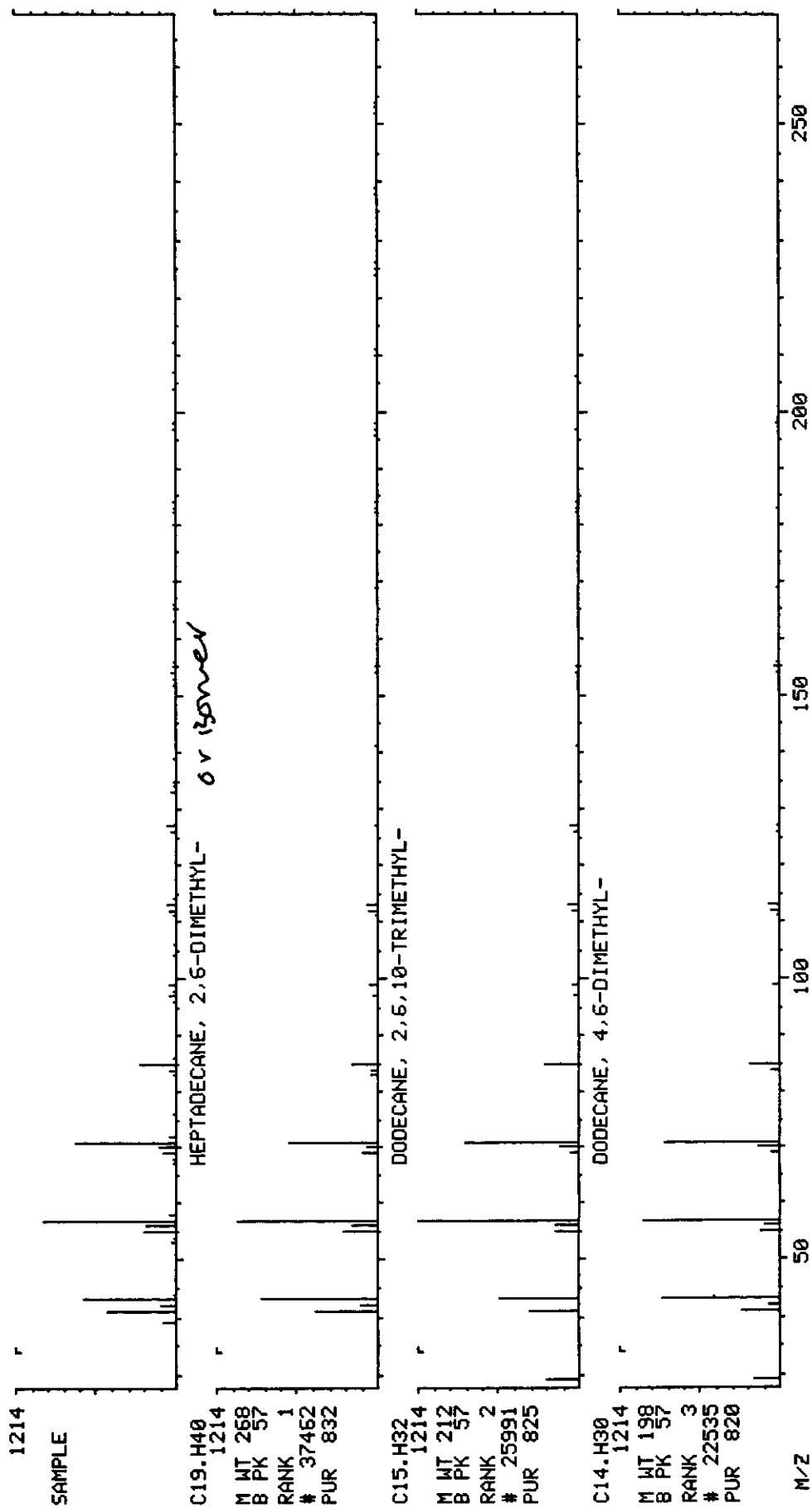
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	832	953	849
2	C15.H32	212	57	825	976	830
3	C14.H30	198	57	820	959	821
4	C15.H32	212	57	816	981	823
5	C21.H44	296	57	814	932	853
6	C15.H32	212	57	805	969	814
7	C12.H26	170	43	797	947	801
8	C19.H40	268	57	795	917	837
9	C13.H28	184	43	794	940	796

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54105-67-8
2	—	—	—	—	3891-98-3
3	—	—	—	—	61141-72-8
4	—	—	—	—	74645-98-0
5	—	—	—	—	18344-37-1
6	—	—	—	—	31295-56-4
7	—	—	—	—	7045-71-8
8	—	—	—	—	629-92-5
9	—	—	—	—	17301-29-0

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 8:12
 SAMPLE: S-MM5-4 1/35A/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068110 # 737
 CALI: 30068110 # 3

BASE M/Z: 57
 RIC: 99328.



1361

Library Search Data: 30068110 # 763 Base m/z: 43
 08/31/98 23:28:00 + 8:29 Cali: 30068110 # 3 RIC: 140800.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

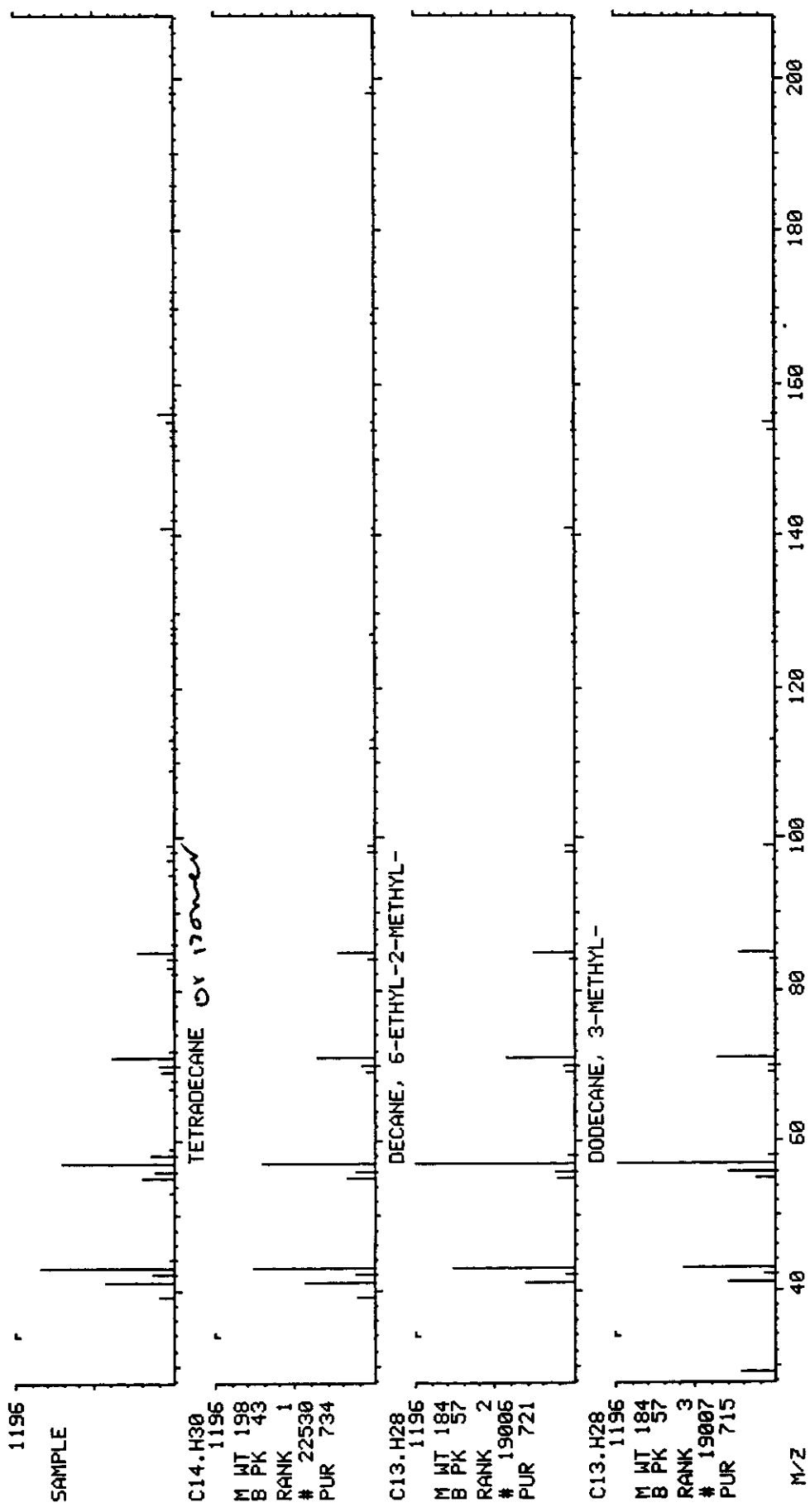
62231 spectra in LIBRARYNB searched for maximum PURITY
 611 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 22530 TETRADECANE
 2 19006 DECANE, 6-ETHYL-2-METHYL-
 3 19007 DODECANE, 3-METHYL-
 4 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 5 15358 UNDECANE, 3-METHYL-
 6 11607 UNDECANE
 7 39681 1-iodoundecane
 8 11612 NONANE, 2,5-DIMETHYL-
 9 37252 DECANE, 1-iodo-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30	198	43	734	960	736
2	C13.H28	184	57	721	951	721
3	C13.H28	184	57	715	908	716
4	C21.H44	296	57	709	928	736
5	C12.H26	170	57	706	919	709
6	C11.H24	156	43	705	977	705
7	C11.H23.I	282	57	704	889	710
8	C11.H24	156	57	701	871	701
9	C10.H21.I	268	57	694	911	700

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-59-4
2	—	—	—	—	62108-21-8
3	—	—	—	—	17312-57-1
4	—	—	—	—	18344-37-1
5	—	—	—	—	1002-43-3
6	—	—	—	—	1120-21-4
7	—	—	—	—	4282-44-4
8	—	—	—	—	17302-27-1
9	—	—	—	—	2050-77-3

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 8:29
 SAMPLE: S-MM5-4 1/35A/100M
 COND.: UG/ML *100ML *100Z/100Z *KNA/NA >1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 30068110 # 763
 CALI: 30068110 # 3
 BASE M/Z: 43
 RIC: 140800.



Library Search Data: 30068110 # 776 Base m/z: 41
 08/31/98 23:28:00 + 8:38 Cal: 30068110 # 3 RIC: 31936.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 677 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 2 32052 OXIRANE, TETRADECYL-
 3 25971 OXIRANE, DODECYL-
 4 42521 1-EICOSANOL
 5 37449 OCTADECANAL
 6 40233 NONADECANOL
 7 37444 OXIRANE, HEXADECYL-
 8 29226 PENTADECANAL-
 9 29187 BUTANOIC ACID, 3,7-DIMETHYL-6-OCTENYL ESTER

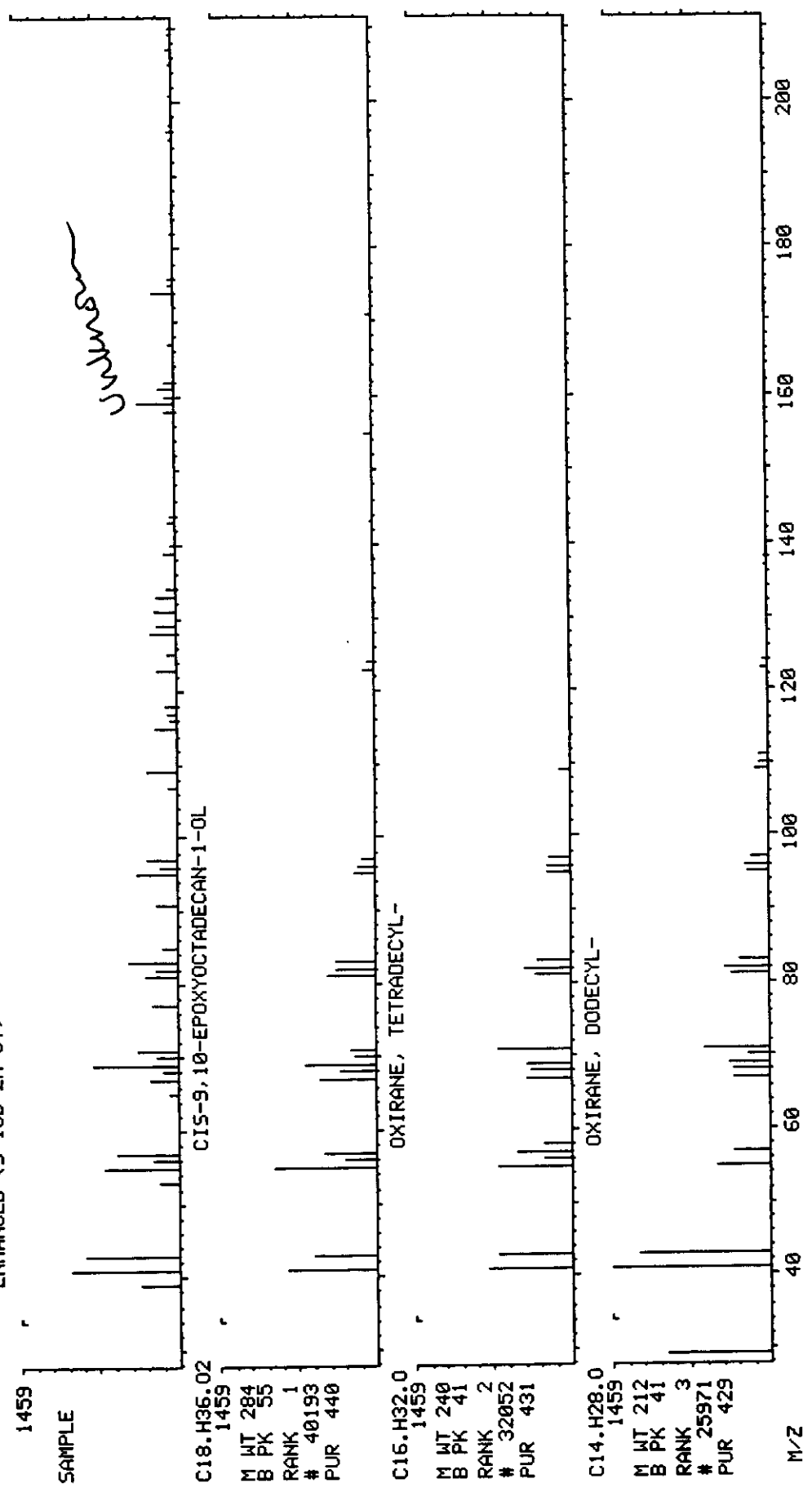
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H36.O2	284	55	440	902	464
2	C16.H32.O	240	41	431	915	446
3	C14.H28.O	212	41	429	870	460
4	C20.H42.O	298	43	409	886	440
5	C18.H36.O	268	43	404	813	465
6	C19.H40.O	284	43	401	897	432
7	C18.H36.O	268	57	398	793	467
8	C15.H30.O	226	82	393	860	415
9	C14.H26.O2	226	41	389	865	410

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	13980-12-6
2	—	—	—	—	7320-37-8
3	—	—	—	—	3234-28-4
4	—	—	—	—	629-96-9
5	—	—	—	—	638-66-4
6	—	—	—	—	52783-43-4
7	—	—	—	—	7390-81-0
8	—	—	—	—	2765-11-9
9	—	—	—	—	141-16-2

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 8:38
 SAMPLE: 5-NMS-4 1/35A/100M
 COND.: UG/ML *100ML *1002/1002 *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30058110 # 776
 CALI: 30058110 # 3

BASE M/Z: 41
 RIC: 31936.



Library Search Data: 30068110 # 820 Base m/z: 57
 08/31/98 23:28:00 + 9:07 Cali: 30068110 # 3 RIC: 91136.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 760 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 2 37462 HEPTADECANE, 2,6-DIMETHYL-
 3 18987 UNDECANE, 2,8-DIMETHYL-
 4 15344 DECANE, 3,6-DIMETHYL-
 5 8104 OCTANE, 3,5-DIMETHYL-
 6 19004 UNDECANE, 4,6-DIMETHYL-
 7 19023 DECANE, 2,6,7-TRIMETHYL-
 8 19039 DECANE, 2,3,5-TRIMETHYL-
 9 15358 UNDECANE, 3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H44	296	57	792	957	816
2	C19.H40	268	57	776	932	805
3	C13.H28	184	43	762	955	768
4	C12.H26	170	57	757	952	764
5	C10.H22	142	57	755	963	755
6	C13.H28	184	57	755	955	757
7	C13.H28	184	57	752	937	752
8	C13.H28	184	57	751	942	752
9	C12.H26	170	57	751	938	756

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18344-37-1
2	—	—	—	—	54105-67-8
3	—	—	—	—	17301-25-6
4	—	—	—	—	17312-53-7
5	—	—	—	—	15869-93-9
6	—	—	—	—	17312-82-2
7	—	—	—	—	62108-25-2
8	—	—	—	—	62238-11-3
9	—	—	—	—	1002-43-3

DATA: 30058110 # 820
CALI: 30058110 # 3

BASE M/Z: 57
RIC: 91136.

MID LIBRARY SEARCH (LIBRARYNB)

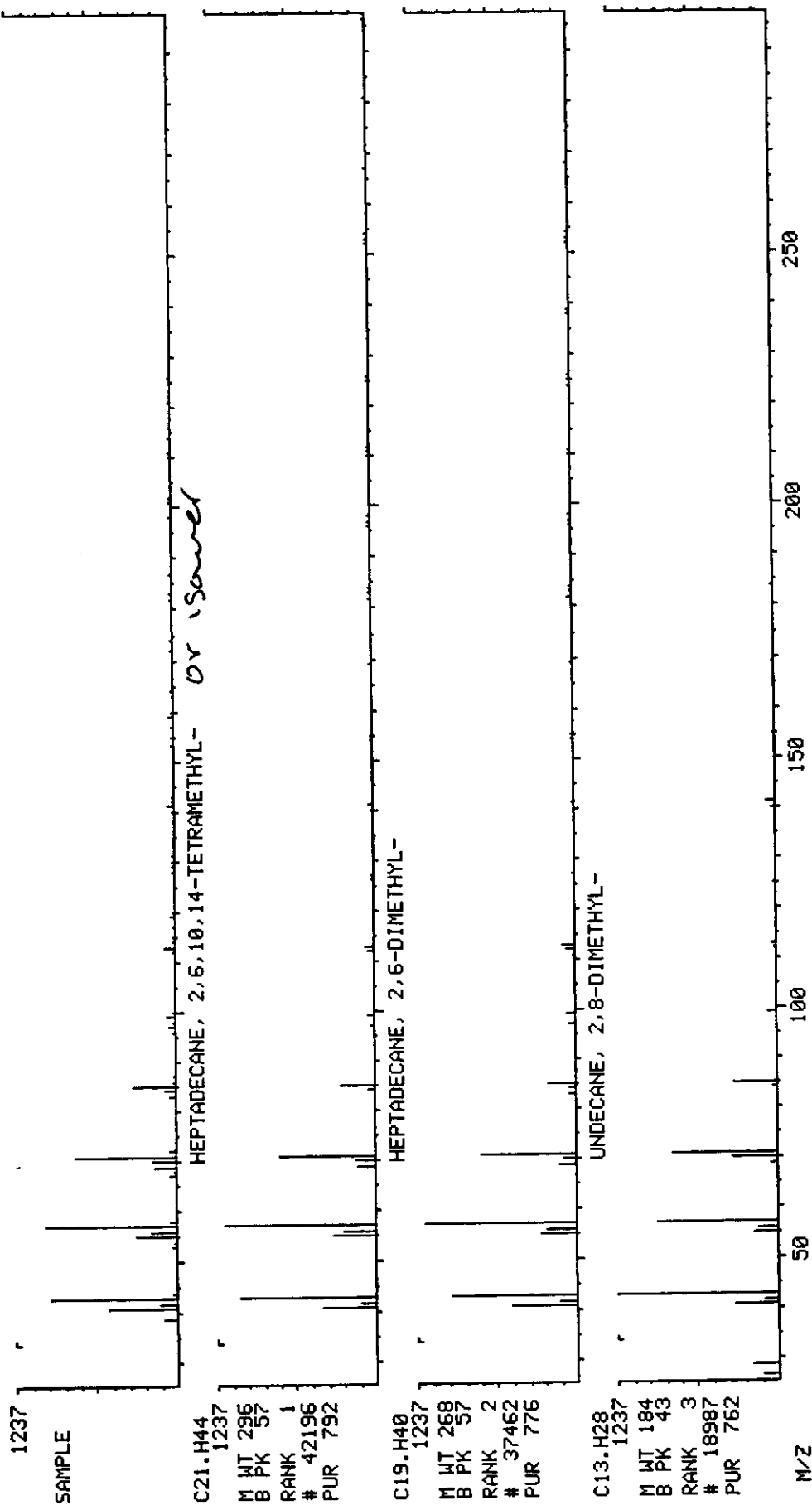
08/31/98 23:28:00 + 9:07

SAMPLE: S-MM5-4 1/35A/100M

COND.: UG/ML *100ML *100Z/100Z *(NA/NA) /1/35A NA M

ENHANCED (S 15B 2N 0T)

INST. ID: F16



Library Search Data: 30068110 # 857 Base m/z: 57
 08/31/98 23:28:00 + 9:32 Cali: 30068110 # 3 RIC: 132352.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 242 matched at least 8 of the 16 largest peaks in the unknown

Rank In. Name
 1 25997 PENTADECANE
 2 19007 DODECANE, 3-METHYL-
 3 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 4 37465 NONADECANE
 5 39681 1-IOUUNDECANE
 6 18990 UNDECANE, 2,9-DIMETHYL-
 7 19016 UNDECANE, 4,7-DIMETHYL-
 8 19026 DECANE, 2,6,8-TRIMETHYL-
 9 37252 DECANE, 1-IOUO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H32	212	57	770	955	773
2	C13.H28	184	57	767	961	769
3	C21.H44	296	57	761	941	778
4	C19.H40	268	57	753	926	783
5	C11.H23.I	282	57	748	970	754
6	C13.H28	184	57	747	954	749
7	C13.H28	184	43	744	936	744
8	C13.H28	184	57	741	939	744
9	C10.H21.I	268	57	738	972	743

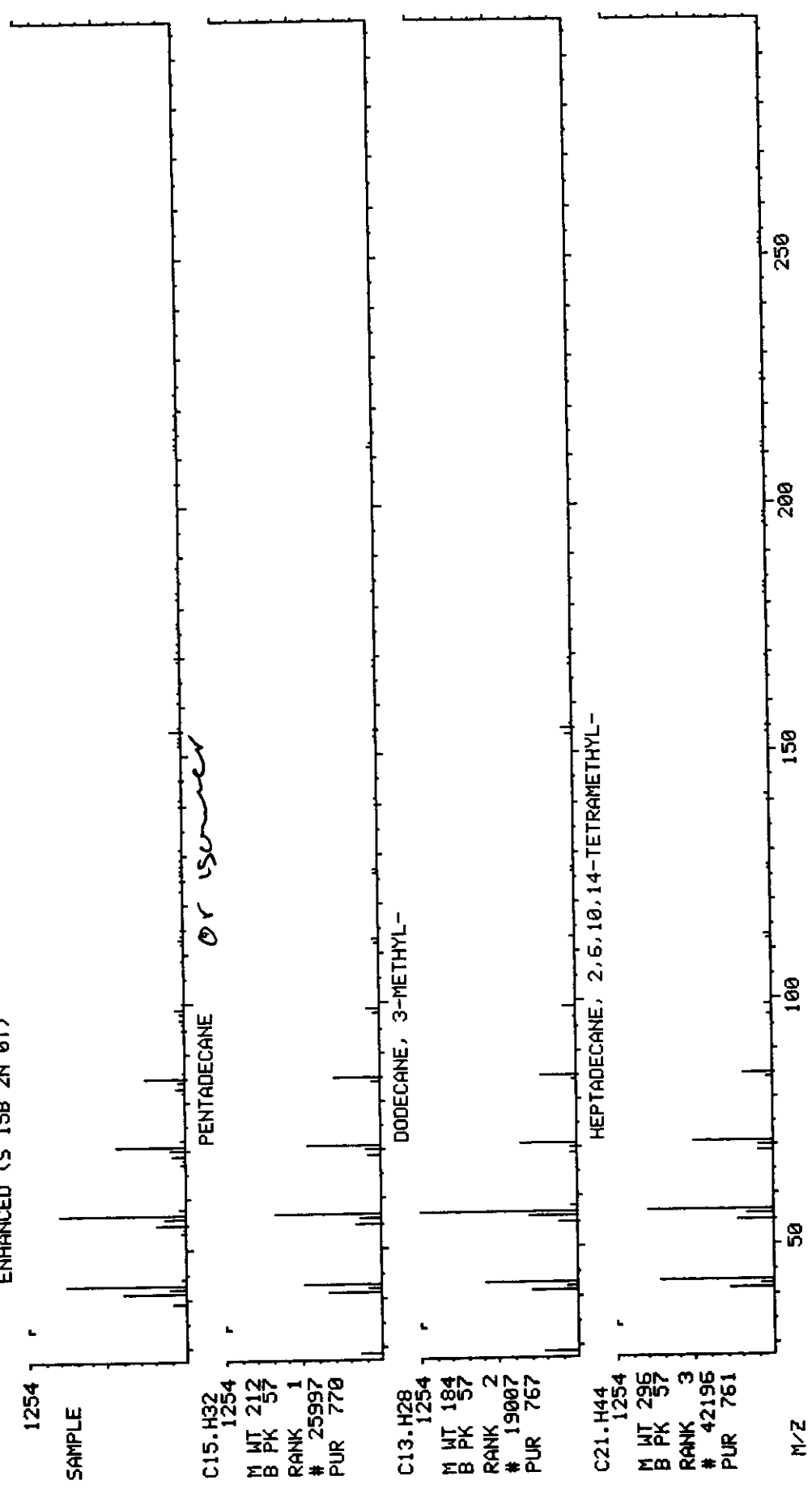
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-62-9
2	—	—	—	—	17312-57-1
3	—	—	—	—	18344-37-1
4	—	—	—	—	629-92-5
5	—	—	—	—	4282-44-4
6	—	—	—	—	17301-26-7
7	—	—	—	—	17301-32-5
8	—	—	—	—	62108-26-3
9	—	—	—	—	2050-77-3

BASE M/Z: 57
RIC: 132352.

DATA: 30068110 # 857
CALI: 30068110 # 3

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:28:00 + 9:32
SAMPLE: 5-MM5-4 1/35A/100M
CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
ENHANCED (S 15B 2N 0T)

INST. ID: F16



m/z

1300

Library Search Data: 30068110 # 903 Base m/z: 41
 08/31/98 23:28:00 + 10:03 Cali: 30068110 # 3 RIC: 46592.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 606 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 25971 OXIRANE, DODECYL-
 2 37449 OCTADECANAL
 3 37444 OXIRANE, HEXADECYL-
 4 40233 NONADECANOL
 5 42521 1-EICOSANOL
 6 58380 DECANEDIOIC ACID, DIDECYL ESTER
 7 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 8 42180 OCTADECANE, 1-(ETHENYLOXY)-
 9 15969 HYDROXYLAMINE, O-DECYL-

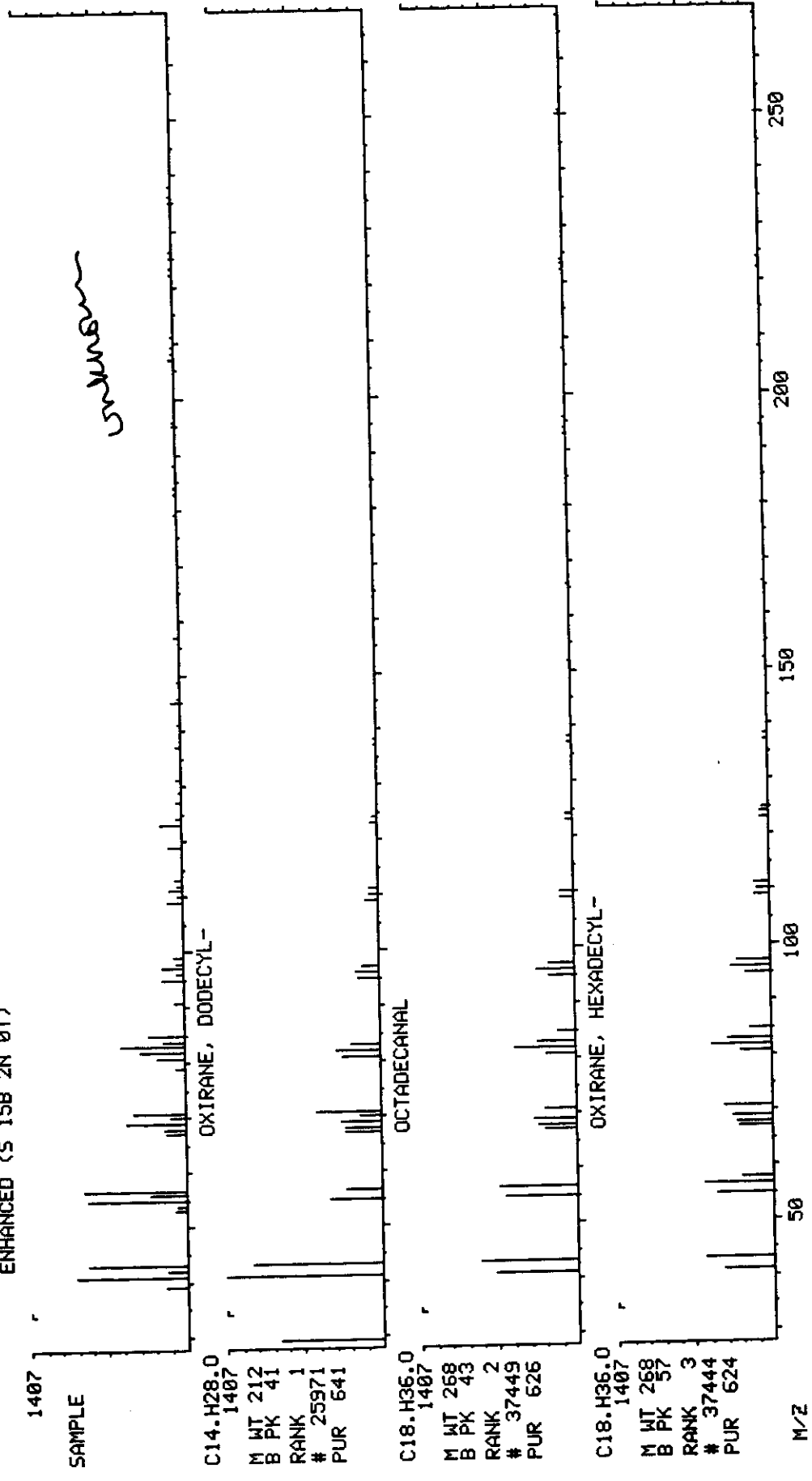
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H28.O	212	41	641	918	646
2	C18.H36.O	268	43	626	872	669
3	C18.H36.O	268	57	624	855	675
4	C19.H40.O	284	43	612	926	651
5	C20.H42.O	298	43	609	920	653
6	C30.H58.O4	482	57	603	923	612
7	C18.H36.O2	284	55	602	898	631
8	C20.H40.O	296	43	599	930	633
9	C10.H23.O.N	173	43	592	891	600

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3234-28-4
2	—	—	—	—	638-66-4
3	—	—	—	—	7390-81-0
4	—	—	—	—	52783-43-4
5	—	—	—	—	629-96-9
6	—	—	—	—	2432-89-5
7	—	—	—	—	13980-12-6
8	—	—	—	—	930-02-9
9	—	—	—	—	29812-79-1

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 10:03
 SAMPLE: S-MM5-4 1/35A/100M
 CONDS.: UC/ML *100ML *100%/100% *(NA/NA) >1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068110 # 903
 CALI: 30068110 # 3

BASE M/Z: 41
 RIC: 46592.



1371

Library Search Data: 30068110 # 947 Base m/z: 57
 08/31/98 23:28:00 + 10:32 Cali: 30068110 # 3 RIC: 123136.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum PURITY
 343 matched at least 8 of the 16 largest peaks in the unknown

Rank In. Name
 1 37465 NONADECANE
 2 37462 HEPTADECANE, 2,6-DIMETHYL-
 3 25997 PENTADECANE
 4 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 5 15969 HYDROXYLAMINE, O-DECYL-
 6 19016 UNDECANE, 4,7-DIMETHYL-
 7 25994 DODECANE, 2,6,11-TRIMETHYL-
 8 19523 1-DECANOL, 2-ETHYL-
 9 26001 DODECANE, 2,7,10-TRIMETHYL-

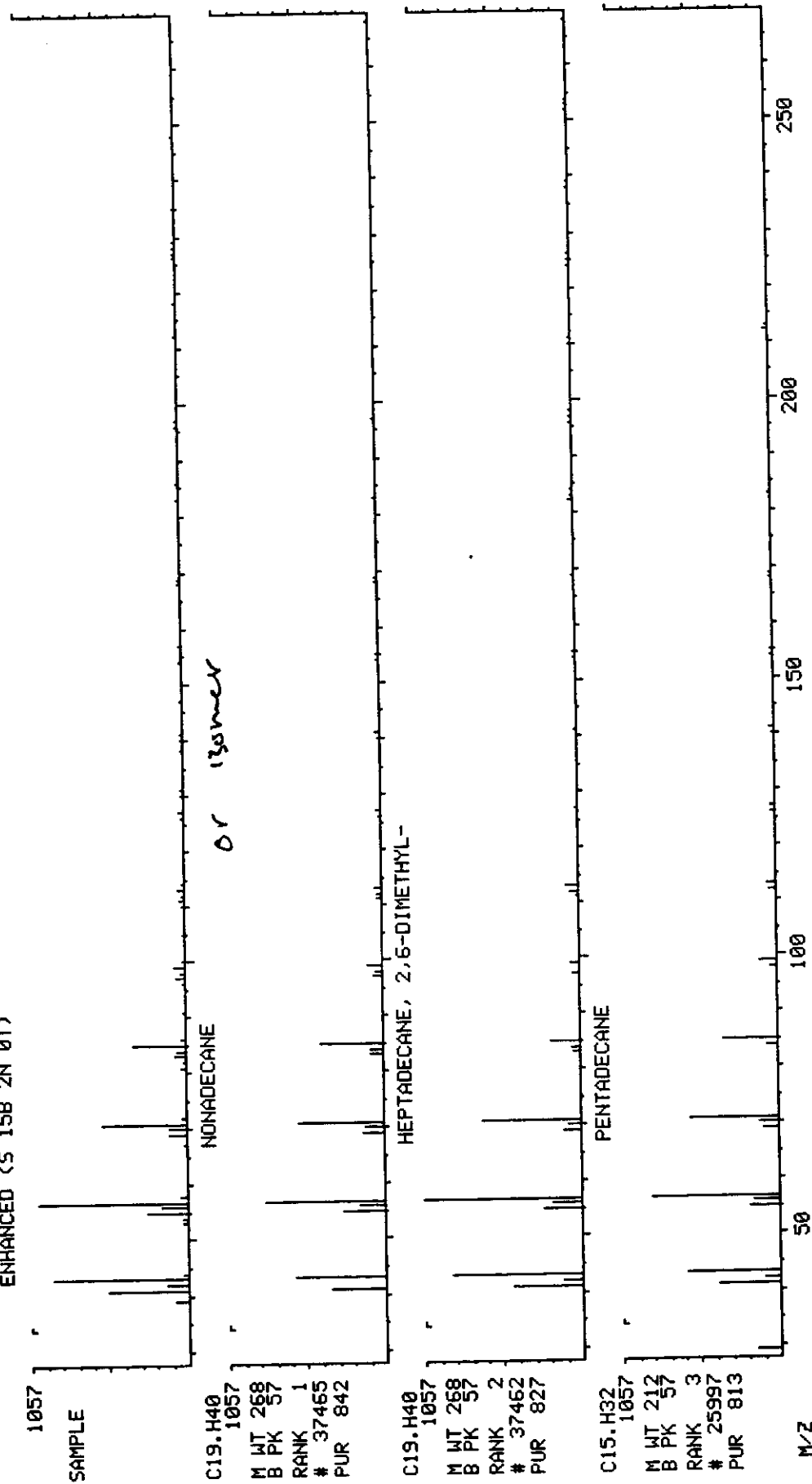
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	842	958	864
2	C19.H40	268	57	827	940	854
3	C15.H32	212	57	813	957	826
4	C21.H44	296	57	813	944	838
5	C10.H23.O.N	173	43	802	950	820
6	C13.H28	184	43	802	964	804
7	C15.H32	212	57	796	963	800
8	C12.H26.O	186	57	791	928	804
9	C15.H32	212	57	789	959	794

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-92-5
2	—	—	—	—	54105-67-8
3	—	—	—	—	629-62-9
4	—	—	—	—	18344-37-1
5	—	—	—	—	29812-79-1
6	—	—	—	—	17301-32-5
7	—	—	—	—	31295-56-4
8	—	—	—	—	21078-65-9
9	—	—	—	—	74645-98-0

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:28:00 + 10:32
 SAMPLE: S-MM5-4 1/35A/100M
 COND.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068110 # 947
 CALI: 30068110 # 3

BASE M/Z: 57
 RIC: 123135.



Library Search Data: 30068110 # 987 Base m/z: 57
 08/31/98 23:28:00 + 10:59 Cali: 30068110 # 3 RIC: 93568.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 644 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 19054 UNDECANE, 2,6-DIMETHYL-
 2 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 3 37462 HEPTADECANE, 2,6-DIMETHYL-
 4 25996 TRIDECANE, 4,8-DIMETHYL-
 5 25997 PENTADECANE
 6 29263 HEXADECANE
 7 22530 TETRADECANE
 8 32059 HEPTADECANE
 9 19026 DECANE, 2,6,8-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	827	949	834
2	C21.H44	296	57	826	957	837
3	C19.H40	268	57	824	943	845
4	C15.H32	212	57	819	936	834
5	C15.H32	212	57	819	945	833
6	C16.H34	226	57	816	931	834
7	C14.H30	198	43	812	936	826
8	C17.H36	240	57	810	923	831
9	C13.H28	184	57	805	953	813

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	17301-23-4
2	—	—	—	—	18344-37-1
3	—	—	—	—	54105-67-8
4	—	—	—	—	55030-62-1
5	—	—	—	—	629-62-9
6	—	—	—	—	544-76-3
7	—	—	—	—	629-59-4
8	—	—	—	—	629-78-7
9	—	—	—	—	62108-26-3

BASE M/Z: 57
RIC: 93568.

DATA: 30058110 # 987
CALI: 30058110 # 3

MID LIBRARY SEARCH <LIBRARYNB>

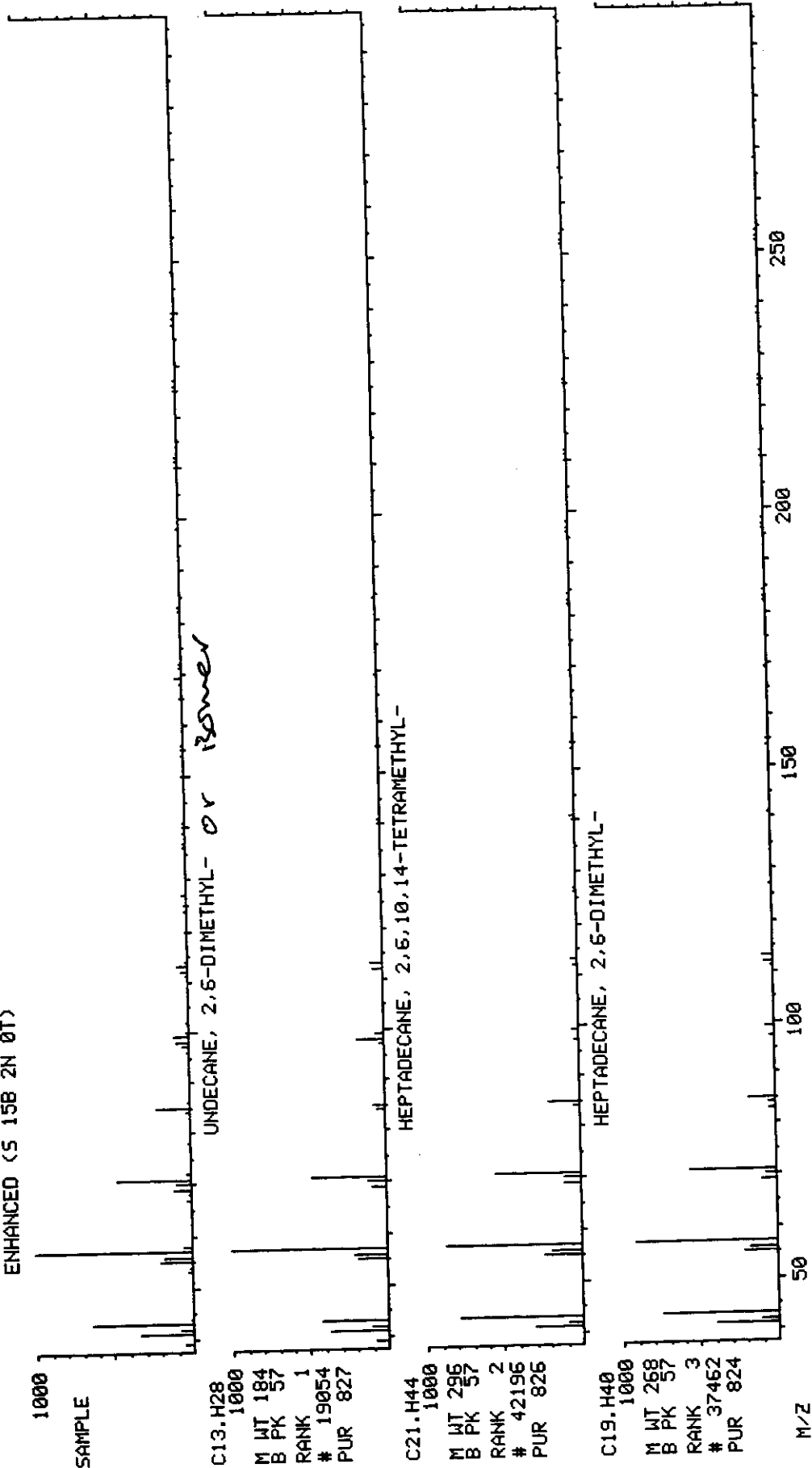
08/31/98 23:28:00 + 10:59

SAMPLE: S-MMS-4 1/35A/100M

COND.S.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M

ENHANCED (S 158 2N 0T)

INST. ID: F16



Library Search Data: 30068110 #1035 Base m/z: 57
 08/31/98 23:28:00 + 11:31 Cali: 30068110 # 3 RIC: 132608.
 Sample: S-MMS-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 840 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37462 HEPTADECANE, 2,6-DIMETHYL-
 2 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 3 37465 NONADECANE
 4 25991 DODECANE, 2,6,10-TRIMETHYL-
 5 26001 DODECANE, 2,7,10-TRIMETHYL-
 6 37466 PENTADECANE, 2,6,10,14-TETRAMETHYL-
 7 22535 DODECANE, 4,6-DIMETHYL-
 8 25994 DODECANE, 2,6,11-TRIMETHYL-
 9 29264 TRIDECANE, 5-PROPYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	867	971	875
2	C21.H44	296	57	823	946	848
3	C19.H40	268	57	819	938	837
4	C15.H32	212	57	815	970	817
5	C15.H32	212	57	814	966	818
6	C19.H40	268	71	811	944	830
7	C14.H30	198	57	810	959	811
8	C15.H32	212	57	792	941	801
9	C16.H34	226	57	790	937	831

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54105-67-8
2	—	—	—	—	18344-37-1
3	—	—	—	—	629-92-5
4	—	—	—	—	3891-98-3
5	—	—	—	—	74645-98-0
6	—	—	—	—	1921-70-6
7	—	—	—	—	61141-72-8
8	—	—	—	—	31295-56-4
9	—	—	—	—	55045-11-9

BASE M/Z: 57
RIC: 132608.

DATA: 30068110 #1035
CALI: 30068110 # 3

MID LIBRARY SEARCH (LIBRARYNB)

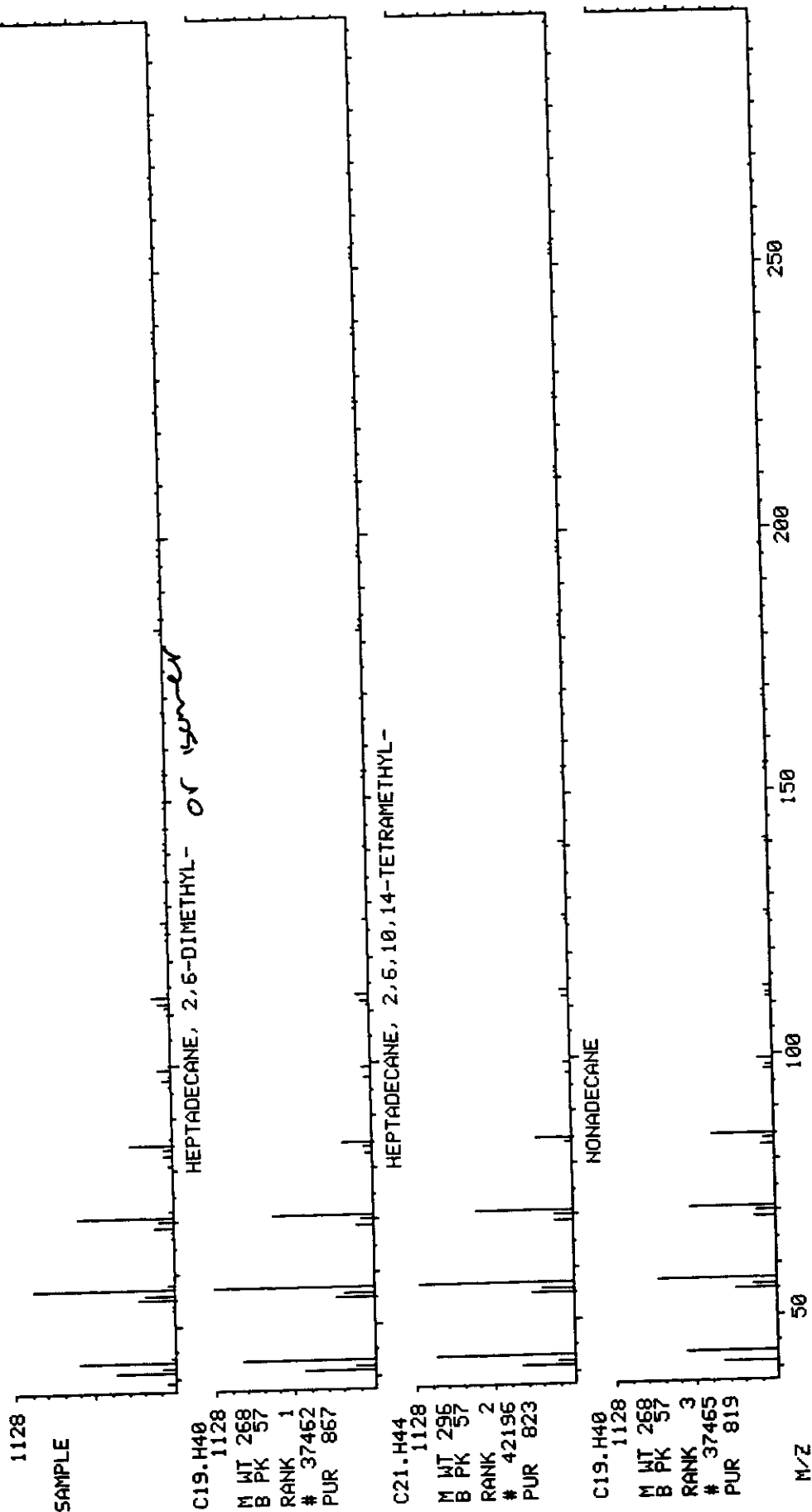
08/31/98 23:28:00 + 11:31

SAMPLE: 5-MM5-4 1/35A/100M

INST. ID: F16

CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA) /1/35A NA M

ENHANCED (5 15B 2N 0T)



Library Search Data: 30068110 #1053 Base m/z: 69
 08/31/98 23:28:00 + 11:43 Cal: 30068110 # 3 RIC: 38336.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 725 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 34410 3-OCTADECENE, (E)-
 2 40233 NONADECANOL
 3 34418 9-OCTADECENE, (E)-
 4 28768 3-HEXADECENE, (Z)-
 5 34411 5-OCTADECENE, (E)-
 6 26409 2-HEXYL-1-OCTANOL
 7 28772 7-HEXADECENE, (Z)-
 8 21963 3-TETRADECENE, (E)-
 9 21962 3-TETRADECENE, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H36	252	69	704	901	742
2	C19.H40.O	284	43	703	908	726
3	C18.H36	252	55	700	895	734
4	C16.H32	224	55	699	896	746
5	C18.H36	252	55	698	893	733
6	C14.H30.O	214	57	695	912	725
7	C16.H32	224	55	691	885	734
8	C14.H28	196	41	687	911	712
9	C14.H28	196	41	685	909	707

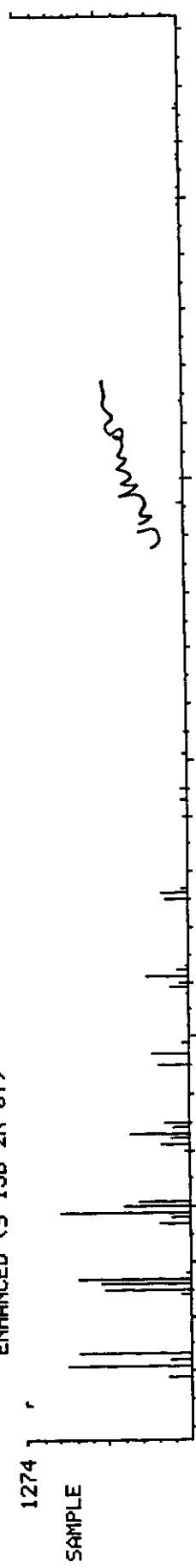
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7206-19-1
2	—	—	—	—	52783-43-4
3	—	—	—	—	7206-25-9
4	—	—	—	—	34303-81-6
5	—	—	—	—	7206-21-5
6	—	—	—	—	- -
7	—	—	—	—	35507-09-6
8	—	—	—	—	41446-68-8
9	—	—	—	—	41446-67-7

DATA: 30068110 #1053
CALI: 30068110 # 3

BASE M/Z: 69
RIC: 38335.

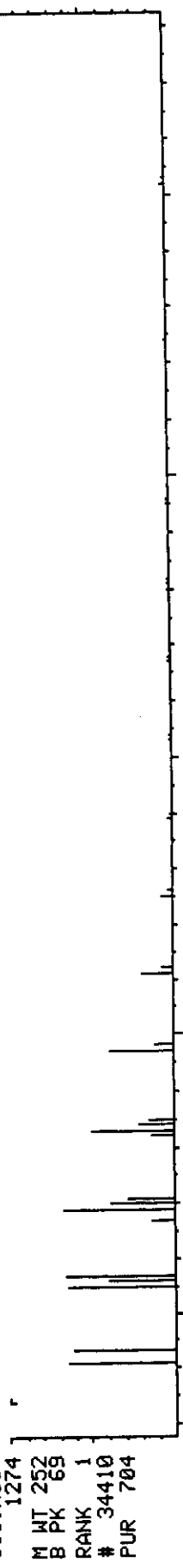
MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:28:00 + 11:43
SAMPLE: S-MM5-4 1/35A/100M
COND5.: UG/ML *100ML *100Z/100Z *(NA/NA >)/1/35A NA M
ENHANCED (S 158 2N 0T)

INST. ID: F16



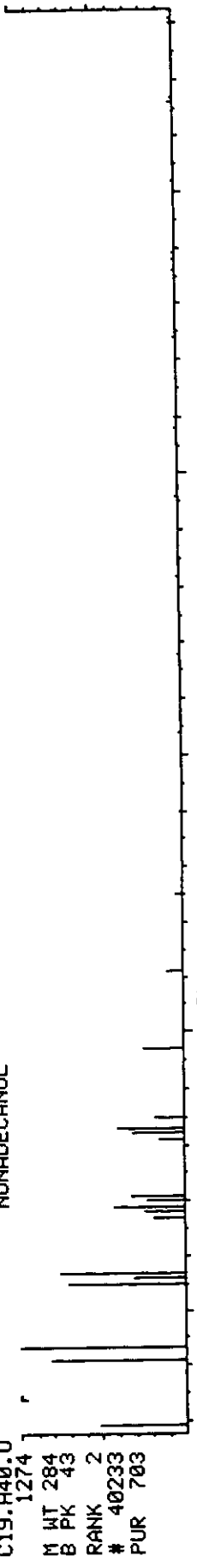
3-OCTADECENE, (E)-

C18.H36
M WT 252
B PK 69
RANK 1
34410
PUR 704



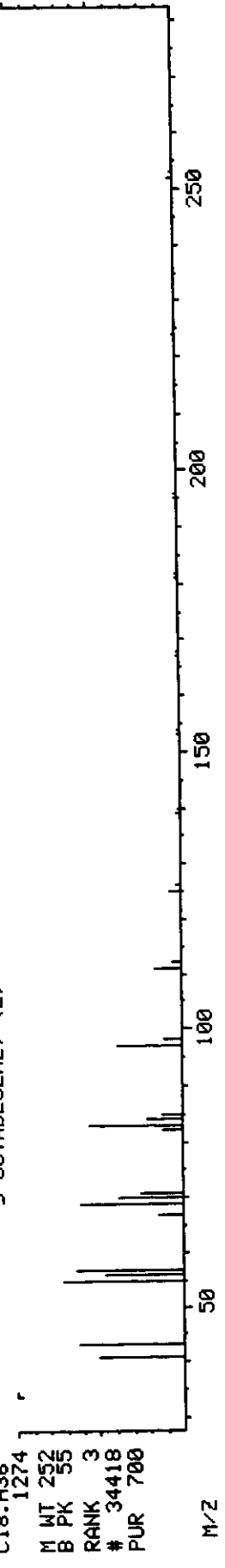
NONADECANOL

C19.H40.0
M WT 284
B PK 43
RANK 2
40233
PUR 703



9-OCTADECENE, (E)-

C18.H36
M WT 252
B PK 55
RANK 3
34418
PUR 700



M/Z

Library Search Data: 30068110 #1113 Base m/z: 57
 08/31/98 23:28:00 + 12:23 Cali: 30068110 # 3 RIC: 55040.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 938 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 15969 HYDROXYLAMINE, O-DECYL-
 2 15358 UNDECANE, 3-METHYL-
 3 37462 HEPTADECANE, 2,6-DIMETHYL-
 4 22536 TRIDECANE, 3-METHYL-
 5 37465 NONADECANE
 6 22530 TETRADECANE
 7 19016 UNDECANE, 4,7-DIMETHYL-
 8 25997 PENTADECANE
 9 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	794	948	813
2	C12.H26	170	57	789	943	792
3	C19.H40	268	57	782	913	827
4	C14.H30	198	57	778	932	791
5	C19.H40	268	57	775	919	829
6	C14.H30	198	43	772	930	821
7	C13.H28	184	43	771	954	778
8	C15.H32	212	57	766	933	809
9	C21.H44	296	57	762	929	802

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	29812-79-1
2	—	—	—	—	1002-43-3
3	—	—	—	—	54105-67-8
4	—	—	—	—	6418-41-3
5	—	—	—	—	629-92-5
6	—	—	—	—	629-59-4
7	—	—	—	—	17301-32-5
8	—	—	—	—	629-62-9
9	—	—	—	—	18344-37-1

1380

[Handwritten signature]
 11/17/98

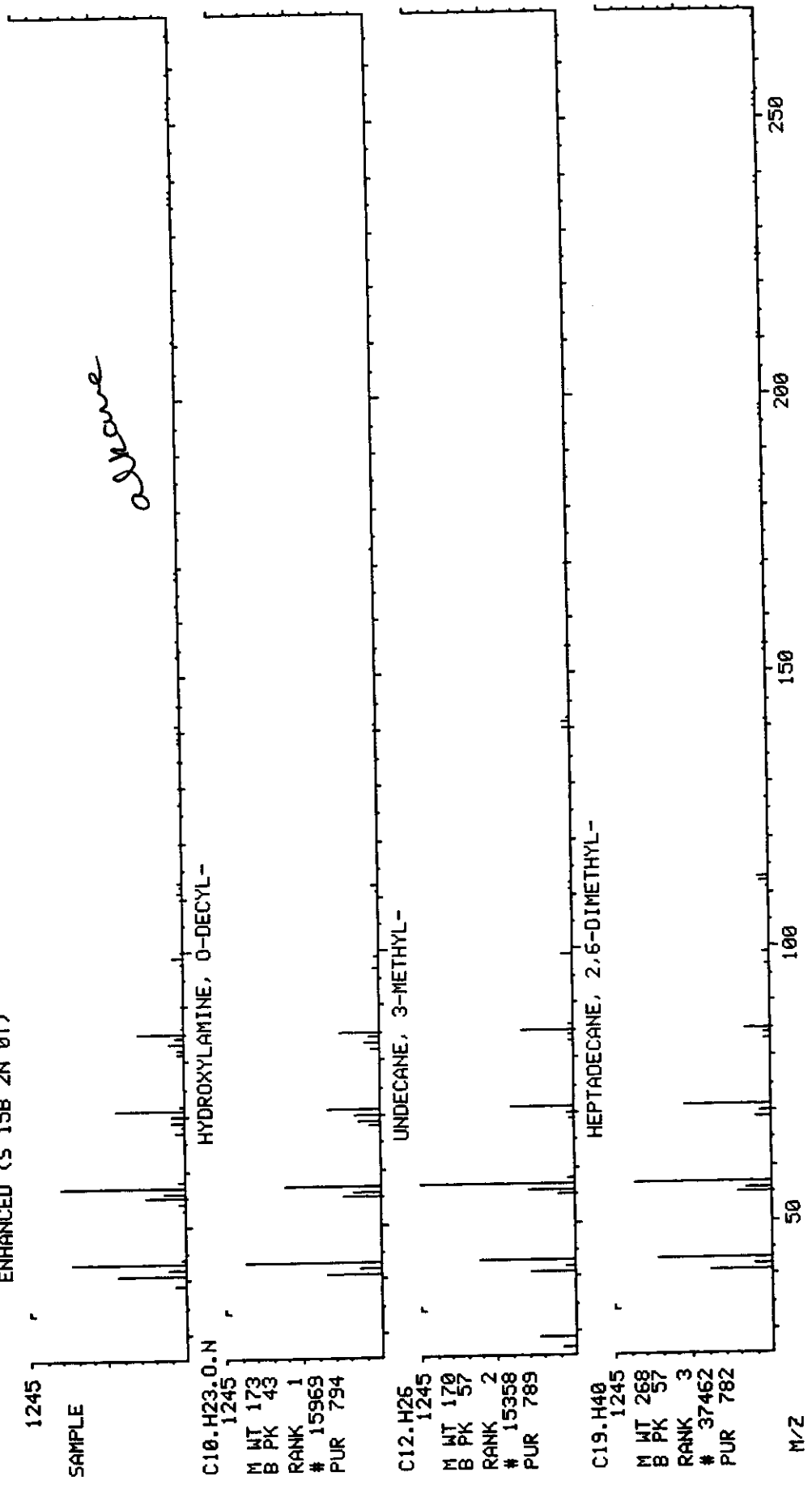
BASE M/Z: 57
RIC: 55040.

DATA: 30058110 #1113
CALI: 30058110 # 3

MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 23:28:00 + 12:23
SAMPLE: S-MMS-4 1/35A/100M
CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA) 1/35A NA M
ENHANCED (S 15B 2N 0T)

INST. ID: F16



Library Search Data: 30068110 #1118 Base m/z: 57
 08/31/98 23:28:00 + 12:26 Cali: 30068110 # 3 RIC: 73216.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 590 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37462 HEPTADECANE, 2,6-DIMETHYL-
 2 37465 NONADECANE
 3 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 4 46161 TRICOSANE
 5 32059 HEPTADECANE
 6 25991 DODECANE, 2,6,10-TRIMETHYL-
 7 37466 PENTADECANE, 2,6,10,14-TETRAMETHYL-
 8 42192 HEPTADECANE, 2,6,10,15-TETRAMETHYL-
 9 26001 DODECANE, 2,7,10-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	834	941	842
2	C19.H40	268	57	833	957	853
3	C21.H44	296	57	823	935	838
4	C23.H48	324	43	813	915	860
5	C17.H36	240	57	802	927	836
6	C15.H32	212	57	802	962	804
7	C19.H40	268	71	801	930	814
8	C21.H44	296	57	801	952	828
9	C15.H32	212	57	800	963	800

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54105-67-8
2	—	—	—	—	629-92-5
3	—	—	—	—	18344-37-1
4	—	—	—	—	638-67-5
5	—	—	—	—	629-78-7
6	—	—	—	—	3891-98-3
7	—	—	—	—	1921-70-6
8	—	—	—	—	54833-48-6
9	—	—	—	—	74645-98-0

Library Search Data: 30068110 #1190 Base m/z: 57
 08/31/98 23:28:00 + 13:14 Cali: 30068110 # 3 RIC: 45056.
 Sample: S-MMS-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

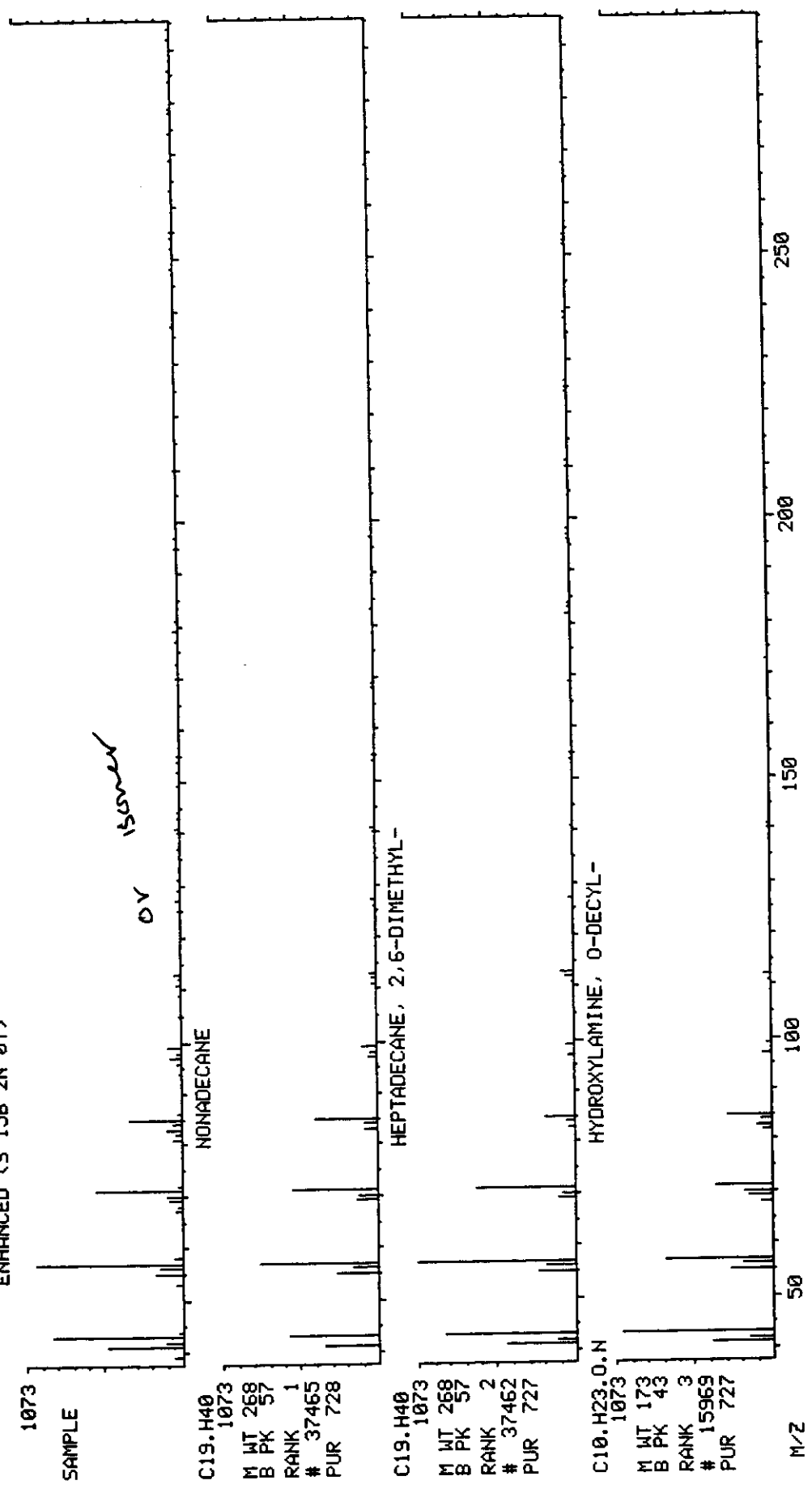
62231 spectra in LIBRARYNB searched for maximum PURITY
 294 matched at least 8 of the 16 largest peaks in the unknown

Rank In. Name
 1 37465 NONADECANE
 2 37462 HEPTADECANE, 2,6-DIMETHYL-
 3 15969 HYDROXYLAMINE, O-DECYL-
 4 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 5 19016 UNDECANE, 4,7-DIMETHYL-
 6 15353 2,6-DIMETHYLDECANE
 7 19005 UNDECANE, 3,8-DIMETHYL-
 8 19523 1-DECANOL, 2-ETHYL-
 9 46161 TRICOSANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	Rfit
1	C19.H40	268	57	728	940	761
2	C19.H40	268	57	727	920	759
3	C10.H23.O.N	173	43	727	962	727
4	C21.H44	296	57	707	931	738
5	C13.H28	184	43	698	959	704
6	C12.H26	170	43	693	926	697
7	C13.H28	184	57	689	970	689
8	C12.H26.O	186	57	687	925	696
9	C23.H48	324	43	686	877	772

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-92-5
2	—	—	—	—	54105-67-8
3	—	—	—	—	29812-79-1
4	—	—	—	—	18344-37-1
5	—	—	—	—	17301-32-5
6	—	—	—	—	13150-81-7
7	—	—	—	—	17301-30-3
8	—	—	—	—	21078-65-9
9	—	—	—	—	638-67-5

MID LIBRARY SEARCH (LIBRARY) DATA: 30068110 #1190
 08/31/98 23:28:00 + 13:14 BASE M/Z: 57
 SAMPLE: S-MM5-4 1/35A/100M RIC: 45056.
 COND.: UG/ML *100ML *100Z/100Z *(NA/NA) 1/35A NA M
 ENHANCED (S 158 2N 0T)



Library Search Data: 30068110 #1264 Base m/z: 57
 08/31/98 23:28:00 + 14:04 Cali: 30068110 # 3 RIC: 34496.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 819 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37462 HEPTADECANE, 2,6-DIMETHYL-
 2 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 3 32058 HEXADECANE, 3-METHYL-
 4 15969 HYDROXYLAMINE, O-DECYL-
 5 37465 NONADECANE
 6 25997 PENTADECANE
 7 34811 HEPTADECANE, 2-METHYL-
 8 34816 HEPTADECANE, 4-METHYL-
 9 42192 HEPTADECANE, 2,6,10,15-TETRAMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	706	921	728
2	C21.H44	296	57	701	933	725
3	C17.H36	240	57	698	928	717
4	C10.H23.O.N	173	43	687	968	690
5	C19.H40	268	57	685	936	723
6	C15.H32	212	57	674	947	704
7	C18.H38	254	43	673	885	725
8	C18.H38	254	43	669	894	704
9	C21.H44	296	57	669	904	706

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	54105-67-8
2	---	---	---	---	18344-37-1
3	---	---	---	---	6418-43-5
4	---	---	---	---	29812-79-1
5	---	---	---	---	629-92-5
6	---	---	---	---	629-62-9
7	---	---	---	---	1560-89-0
8	---	---	---	---	26429-11-8
9	---	---	---	---	54833-48-6

DATA: 30068110 #1264
CALI: 30068110 # 3

BASE M/Z: 57
RIC: 34496.

MID LIBRARY SEARCH <LIBRARYNB>

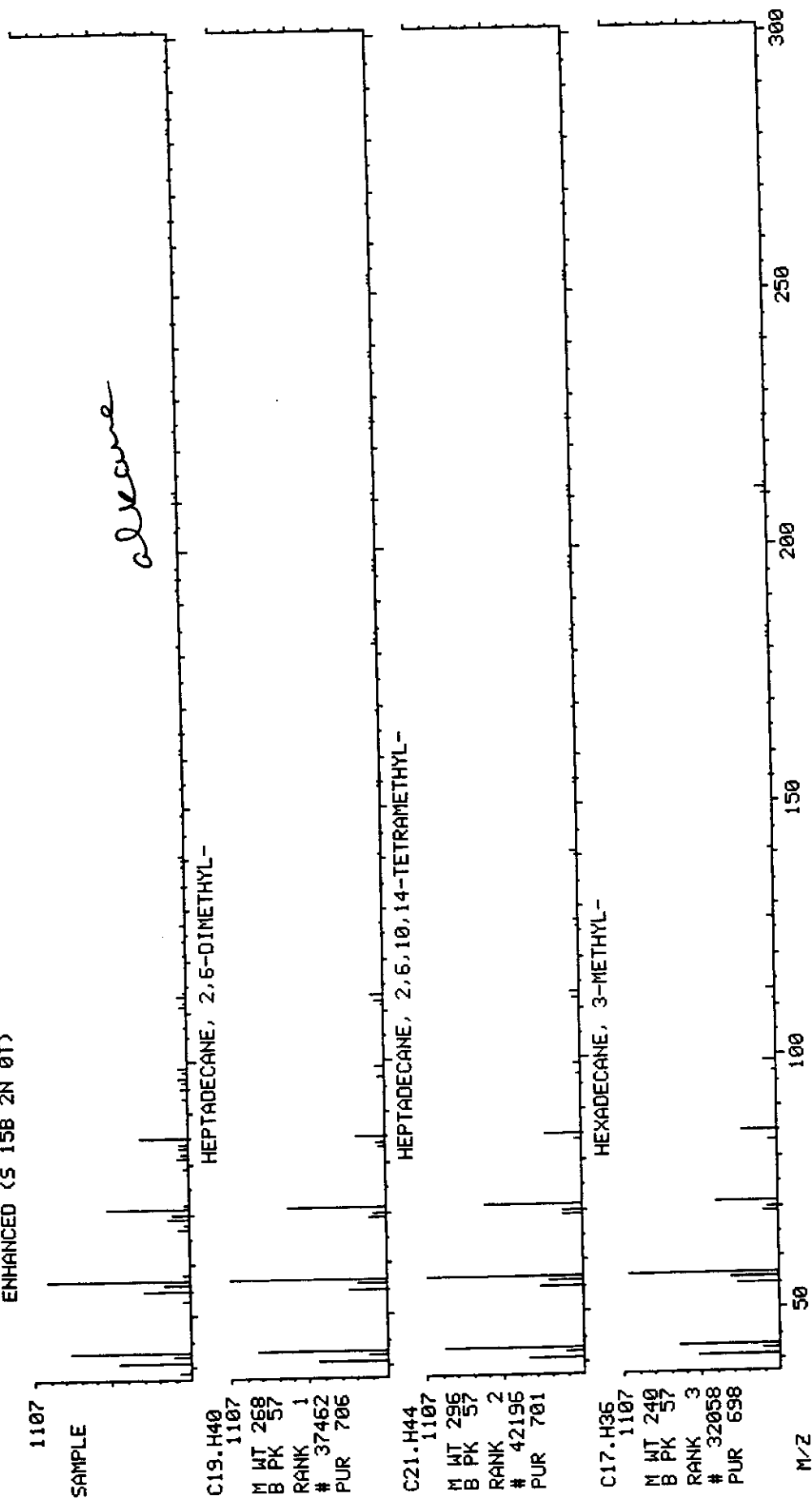
08/31/98 23:28:00 + 14:04

SAMPLE: 5-MMS-4 1/35A/100M

INST. ID: F16

CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M

ENHANCED (S 158 2N 0T)



Library Search Data: 30068110 #1335 Base m/z: 57
 08/31/98 23:28:00 + 14:51 Cali: 30068110 # 3 RIC: 22112.
 Sample: S-MM5-4 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 470 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37456 2-METHYLOCTADECANE
 2 37462 HEPTADECANE, 2,6-DIMETHYL-
 3 19523 1-DECANOL, 2-ETHYL-
 4 29263 HEXADECANE
 5 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 6 32058 HEXADECANE, 3-METHYL-
 7 37458 OCTADECANE, 2-METHYL-
 8 37465 NONADECANE
 9 15969 HYDROXYLAMINE, O-DECYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	43	571	855	615
2	C19.H40	268	57	568	831	599
3	C12.H26.O	186	57	548	935	557
4	C16.H34	226	57	547	863	599
5	C21.H44	296	57	542	823	582
6	C17.H36	240	57	541	885	584
7	C19.H40	268	43	534	819	607
8	C19.H40	268	57	533	900	578
9	C10.H23.O.N	173	43	532	926	554

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	—
2	—	—	—	—	54105-67-8
3	—	—	—	—	21078-65-9
4	—	—	—	—	544-76-3
5	—	—	—	—	18344-37-1
6	—	—	—	—	6418-43-5
7	—	—	—	—	1560-88-9
8	—	—	—	—	629-92-5
9	—	—	—	—	29812-79-1

DATA: 30068110 #1335
CALI: 30068110 # 3

BASE M/Z: 57
RIC: 22112.

MID LIBRARY SEARCH (LIBRARYB)

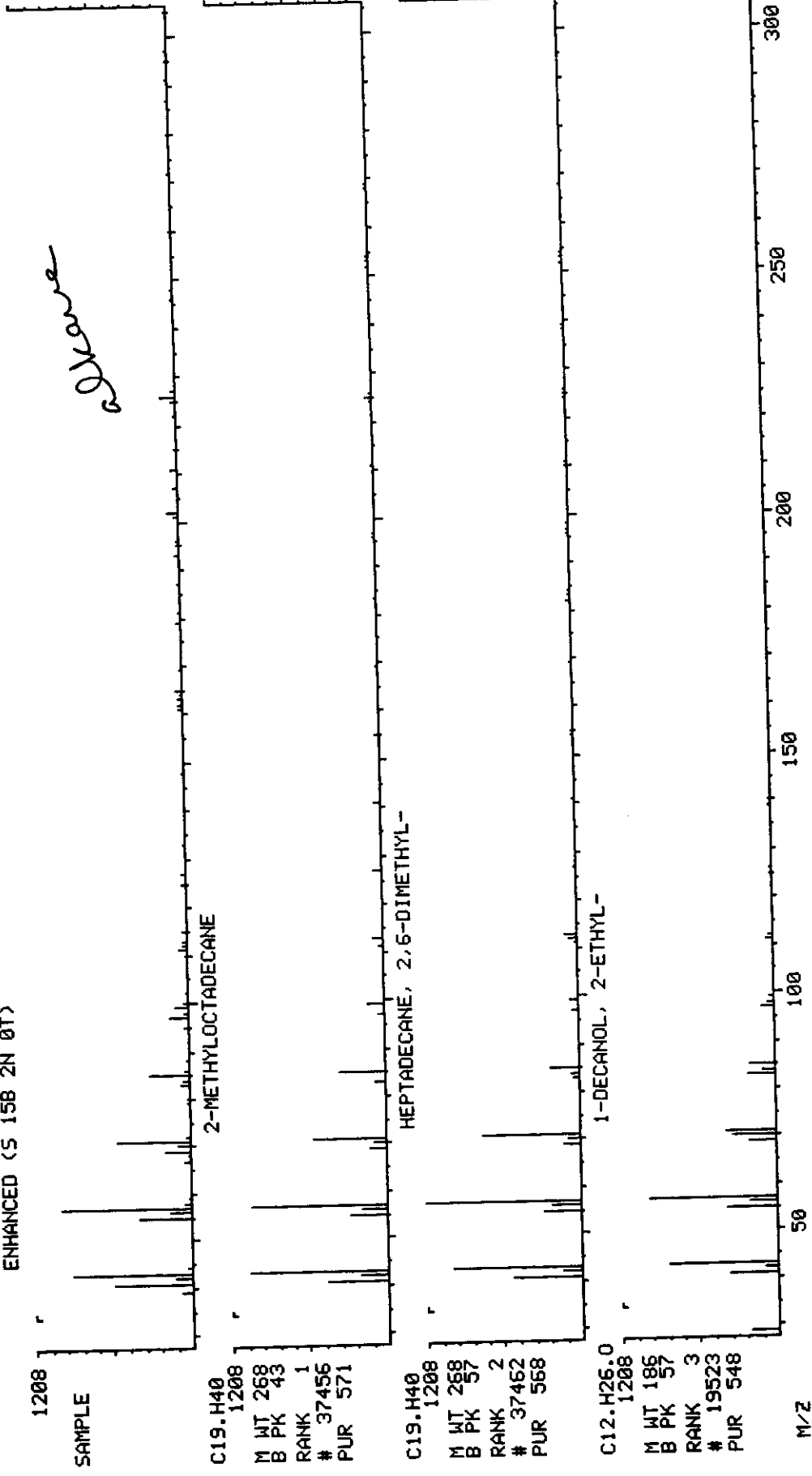
08/31/98 23:28:00 + 14:51

SAMPLE: 5-MM5-4 1/35A/100M

COND.: UG/ML *100ML *100Z *(NA/NA) 1/35A NA M

ENHANCED (S 158 2N 0T)

INST. ID: F16



1208
1208
1208
1208

TIC SELECTION REPORT

DATA FILE: 30068110

THE FOLLOWING PEAKS WERE REJECTED BECAUSE
AT LEAST 40 % OF THEIR SIZE WAS ACCOUNTED FOR BY
TARGET COMPOUNDS ELUTING WITHIN 4 SCANS OF THE
PEAK TOP.

SCAN	SIZE	AMOUNT
340	197830.	21.556
530	455680.	49.651
829	367104.	40.000
1087	361984.	40.000
1552	257952.	40.000
1783	238432.	40.000

TOTAL NUMBER OF UNIDENTIFIED PEAKS WITH SIZE
GREATER THAN 10 % OF THE CLOSEST INTERNAL STANDARD
THAT DOES NOT HAVE INTERFERENCES = 84

INTERNAL STANDARDS THAT HAVE RIC SIZE LESS THAN
50 % OR GREATER THAN 200 % OF THE ESTIMATED RIC SIZE
ARE CONSIDERED TO HAVE INTERFERENCES AND WILL NOT BE USED
FOR QUANTITATION.

#	INTERNAL STANDARD	PERCENT OF ESTIMATED		SCAN
		RIC SIZE	RIC SIZE	
1	C140 NAPHTHALENE-D8	455680.	248 *	530
2	C150 ACENAPHTHENE-D10	367104.	161	829
3	C160 PHENANTHRENE-D10	361984.	145	1087
4	C170 CHRYSENE-D12	257952.	153	1552
5	C175 PERYLENE-D12	238432.	162	1783

* INDICATES INTERFERENCE

SIZE = AREA

Semivolatile Organics
Method 0010/8270

Client Name: Pacific Environmental Services
Client ID: S-MM5-5-F, FH, XAD, COND, BH
LAB ID: 300681-0011-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 28 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
Phenol	ND	ug/Sample	3000	GR
bis(2-Chloroethyl)ether	ND	ug/Sample	3000	
2-Chlorophenol	ND	ug/Sample	3000	
1,3-Dichlorobenzene	ND	ug/Sample	3000	
1,4-Dichlorobenzene	ND	ug/Sample	3000	
Benzyl alcohol	ND	ug/Sample	3000	
1,2-Dichlorobenzene	ND	ug/Sample	3000	
2-Methylphenol	ND	ug/Sample	3000	
2,2'-Oxybis(1-chloropropane)	ND	ug/Sample	3000	
3/4-Methylphenol	ND	ug/Sample	3000	
N-Nitroso-di-n-propylamine	ND	ug/Sample	3000	
Hexachloroethane	ND	ug/Sample	3000	
Nitrobenzene	ND	ug/Sample	3000	
Isophorone	ND	ug/Sample	3000	
2-Nitrophenol	ND	ug/Sample	3000	
2,4-Dimethylphenol	ND	ug/Sample	3000	
Benzoic acid	ND	ug/Sample	15000	
bis(2-Chloroethoxy)-methane	ND	ug/Sample	3000	
2,4-Dichlorophenol	ND	ug/Sample	3000	
1,2,4-Trichlorobenzene	ND	ug/Sample	3000	
Naphthalene	2600	ug/Sample	3000	J
4-Chloroaniline	ND	ug/Sample	3000	
Hexachlorobutadiene	ND	ug/Sample	3000	
4-Chloro-3-methylphenol	ND	ug/Sample	3000	
2-Methylnaphthalene	4400	ug/Sample	3000	
Hexachlorocyclopentadiene	ND	ug/Sample	3000	
2,4,6-Trichlorophenol	ND	ug/Sample	3000	
2,4,5-Trichlorophenol	ND	ug/Sample	15000	
2-Chloronaphthalene	ND	ug/Sample	3000	
2-Nitroaniline	ND	ug/Sample	3000	
Dimethyl phthalate	ND	ug/Sample	3000	
Acenaphthylene	ND	ug/Sample	3000	
3-Nitroaniline	ND	ug/Sample	15000	
Acenaphthene	ND	ug/Sample	3000	
2,4-Dinitrophenol	ND	ug/Sample	15000	

Note G = Reporting limit(s) raised due to matrix interference.

Note J = Result is detected below the reporting limit or is an estimated concentration.

Note R = Reporting limit(s) raised due to sample volume limitations.

ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787

1391

Semivolatile Organics
Method 0010/8270

(cont.)

Client Name: Pacific Environmental Services
Client ID: S-MM5-5-F, FH, XAD, COND, BH
LAB ID: 300681-0011-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 28 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
4-Nitrophenol	ND	ug/Sample	15000	
Dibenzofuran	ND	ug/Sample	3000	
2,4-Dinitrotoluene	ND	ug/Sample	3000	
2,6-Dinitrotoluene	ND	ug/Sample	3000	
Diethyl phthalate	ND	ug/Sample	3000	
4-Chlorophenyl phenyl ether	ND	ug/Sample	3000	
Fluorene	560	ug/Sample	3000	J
4-Nitroaniline	ND	ug/Sample	15000	
4,6-Dinitro-2-methylphenol	ND	ug/Sample	15000	
N-Nitrosodiphenylamine	ND	ug/Sample	3000	
4-Bromophenyl phenyl ether	ND	ug/Sample	3000	
Hexachlorobenzene	ND	ug/Sample	3000	
Pentachlorophenol	ND	ug/Sample	15000	
Phenanthrene	1200	ug/Sample	3000	J
Anthracene	ND	ug/Sample	3000	
Di-n-butyl phthalate	ND	ug/Sample	3000	
Fluoranthene	ND	ug/Sample	3000	
Pyrene	ND	ug/Sample	3000	
Butyl benzyl phthalate	ND	ug/Sample	3000	
3,3'-Dichlorobenzidine	ND	ug/Sample	6000	
Benzo(a)anthracene	ND	ug/Sample	3000	
bis(2-Ethylhexyl)-phthalate	ND	ug/Sample	3000	
Chrysene	ND	ug/Sample	3000	
Di-n-octyl phthalate	ND	ug/Sample	3000	
Benzo(b)fluoranthene	ND	ug/Sample	3000	
Benzo(k)fluoranthene	ND	ug/Sample	3000	
Benzo(a)pyrene	ND	ug/Sample	3000	
Indeno(1,2,3-cd)pyrene	ND	ug/Sample	3000	
Dibenz(a,h)anthracene	ND	ug/Sample	3000	
Benzo(g,h,i)perylene	ND	ug/Sample	3000	
Acetophenone	ND	ug/Sample	3000	
4-Aminobiphenyl	ND	ug/Sample	15000	
Aniline	ND	ug/Sample	3000	
Benzidine	ND	ug/Sample	30000	
3,3'-Dimethylbenzidine	ND	ug/Sample	6000	
N-Nitrosodimethylamine	ND	ug/Sample	3000	
N-Nitrosomorpholine	ND	ug/Sample	3000	

Note J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787

1392

Semivolatile Organics
Method 0010/8270

(cont.)

Client Name: Pacific Environmental Services
Client ID: S-MM5-5-F, FH, XAD, COND, BH
LAB ID: 300681-0011-SA
Matrix: AIRTRAIN
Authorized: 30 JUL 98

Sampled: 28 JUL 98
Prepared: 31 JUL 98

Received: 30 JUL 98
Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
Pentachloronitrobenzene (PCNB)	ND	ug/Sample	15000	
o-Toluidine	ND	ug/Sample	6000	
2-Methoxybenzenamine	ND	ug/Sample	--	
Biphenyl	ND	ug/Sample	--	
Chloroacetophenone	ND	ug/Sample	--	
Cumene	ND	ug/Sample	--	
DBCP (1,2-Dibromo-3-chloropropane)	ND	ug/Sample	--	
Benzo(e)pyrene	ND	ug/Sample	--	
N-N-Diethylaniline	ND	ug/Sample	--	
Dimethylaniline	ND	ug/Sample	--	
3,3'-Dimethoxybenzidine	ND	ug/Sample	--	
Hydroquinone	ND	ug/Sample	--	
4,4'-Methyl-bis(2-chloroaniline)	ND	ug/Sample	--	
4-Nitrodiphenyl	ND	ug/Sample	--	
Trifluralin	ND	ug/Sample	--	

Surrogate	Recovery	Acceptable Range	
Nitrobenzene-d5	ND %	45 - 107	H
2-Fluorobiphenyl	ND %	62 - 110	
Terphenyl-d14	ND %	58 - 135	
Phenol-d5	ND %	43 - 130	
2-Fluorophenol	ND %	36 - 111	
2,4,6-Tribromophenol	ND %	58 - 131	

Note H = Spiked analyte not detected because of required sample dilution.
ND = Not Detected

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787

1393

Semivolatiles Library Search (20 Compound TID)
Method 8270

Client Name: Pacific Environmental Services

Client ID: S-MM5-5-F,FH,XAD,COND,BH

LAB ID: 300681-0011-SA

Matrix: AIRTRAIN

Authorized: 30 JUL 98

Sampled: 28 JUL 98

Prepared: NA

Received: 30 JUL 98

Analyzed: 31 AUG 98

Dilution Factor: 100

Parameter	Result	Units	Reporting Limit	Qualifier
Unknown	11000	ug/Sample	--	
Unknown	13000	ug/Sample	--	
Decane, 2,9-dimethyl-	9200	ug/Sample	--	0
Undecane, 2,6-dimethyl-	9500	ug/Sample	--	0
Unknown	15000	ug/Sample	--	
Unknown alkane	20000	ug/Sample	--	
Unknown	12000	ug/Sample	--	
Unknown alkane	11000	ug/Sample	--	
Unknown	10000	ug/Sample	--	
Unknown	12000	ug/Sample	--	
Dodecane, 2,6,10-trimethyl-	19000	ug/Sample	--	0
Tetradecane	25000	ug/Sample	--	0
Unknown	15000	ug/Sample	--	
Heptadecane, 2,6,10,14 -tetramethyl-	22000	ug/Sample	--	0
Dodecane, 3-methyl-	25000	ug/Sample	--	0
Oxirane, hexadecyl-	13000	ug/Sample	--	0
Unknown alkane	27000	ug/Sample	--	
Unknown alkane	14000	ug/Sample	--	
Heptadecane, 2,6-dimethyl-	28000	ug/Sample	--	0
Nonadecane	11000	ug/Sample	--	0

Note 0 = Or structurally similar compound (isomer).
NA = Not Applicable

Reported By: Emily Uebelhoer

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.

Rev 230787

1394

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068111
Std Id: ST16980831

Sample: S-MM5-5 1/3SA/100M INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:58
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery		QC Limits
	Spiked	Measured	Measured		
CS20 NITROBENZENE-D5	50.0	BDL	0*	45	107
CS25 2-FLUOROBIPHENY	50.00	108.0	216.	*	62 110
CS30 TERPHENYL-D14	50.0	BDL	0*	58	135
CS45 PHENOL-D5	100.	BDL	0*	43	130
CS50 2-FLUOROPHENOL	100.	BDL	0*	36	111
CS55 2,4,6-TRIBROMOP	100.	BDL	0*	58	131

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
HEXACHLOROBENZENE-C13		ND	UG/A	3000.0
C310 N-NITROSODIMETHYLAMINE		ND	UG/A	3000.0
PYRIDINE		ND	UG/A	6000.0
2-PICOLINE		ND	UG/A	3000.0
N-NITROSOMETHYLETHYLAMINE		ND	UG/A	3000.0
METHYLMETHANESULFONATE		ND	UG/A	3000.0
N-NITROSODIETHYLAMINE		ND	UG/A	3000.0
ETHYLMETHANE SULFONATE		ND	UG/A	3000.0
PENTACHLOROETHANE		ND	UG/A	3000.0
C320 ANILINE		ND	UG/A	3000.0
C315 PHENOL		ND	UG/A	3000.0
C325 BIS(2-CHLOROETHYL)ETHER		ND	UG/A	3000.0
C330 2-CHLOROPHENOL		ND	UG/A	3000.0
C335 1,3-DICHLOROBENZENE		ND	UG/A	3000.0
C340 1,4-DICHLOROBENZENE		ND	UG/A	3000.0
C345 BENZYL ALCOHOL		ND	UG/A	3000.0
C350 1,2-DICHLOROBENZENE		ND	UG/A	3000.0
C355 2-METHYLPHENOL		ND	UG/A	3000.0
C360 2,2'-OXYBIS(1-CLPROPAN)		ND	UG/A	3000.0
C361 ACETOPHENONE		ND	UG/A	3000.0
N-NITROSOPYRROLIDINE		ND	UG/A	3000.0
N-NITROSOMORPHOLINE		ND	UG/A	3000.0
3-METHYL PHENOL		ND	UG/A	3000.0
C365 4-METHYLPHENOL		ND	UG/A	3000.0
C370 N-NITROSO-DI-N-PROPYLAM		ND	UG/A	3000.0
O-TOLUIDINE		ND	UG/A	3000.0
C375 HEXACHLOROETHANE		ND	UG/A	3000.0
C410 NITROBENZENE		ND	UG/A	3000.0
N-NITROSOPIPERIDINE		ND	UG/A	3000.0

Reviewed by:

Mund 9.18.98
DEB 10/6/98

1385

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068111
Std Id: ST16980831

Sample: S-MM5-5 1/3SA/100M INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:58
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C415 ISOPHORONE		ND	UG/A	3000.0
C420 2-NITROPHENOL		ND	UG/A	3000.0
C425 2,4-DIMETHYLPHENOL		ND	UG/A	3000.0
C435 BIS(2-CHLOROETHOXY)METH		ND	UG/A	3000.0
C440 2,4-DICHLOROPHENOL		ND	UG/A	3000.0
C430 BENZOIC ACID		ND	UG/A	15000.0
AA-DIMETHYLPHENETHYLAMINE		ND	UG/A	3000.0
C445 1,2,4-TRICHLOROBENZENE		ND	UG/A	3000.0
C450 NAPHTHALENE		ND 2600	UG/A	3000.0
C455 4-CHLOROANILINE		ND	UG/A	3000.0
2,6-DICHLOROPHENOL		ND	UG/A	3000.0
HEXACHLOROPROPENE		ND	UG/A	3000.0
C460 HEXACHLOROBUTADIENE		ND	UG/A	3000.0
P-PHENYLENE DIAMINE		ND	UG/A	3000.0
N-NITROSODI-N-BUTYLAMINE		ND	UG/A	3000.0
C465 4-CHLORO-3-METHYLPHENO		ND	UG/A	3000.0
SAFROLE		ND	UG/A	3000.0
C470 2-METHYLNAPHTHALENE	653	ND 4400	UG/A	3000.0
1,2,4,5-TETRACHLOROBENZENE		ND	UG/A	3000.0
ISOSAFROLE (#1)		ND	UG/A	6000.0
C510 HEXACHLOROCYCLOPENTADI		ND	UG/A	3000.0
C515 2,4,6-TRICHLOROPHENOL		ND	UG/A	3000.0
C520 2,4,5-TRICHLOROPHENOL		ND	UG/A	3000.0
ISOSAFROLE (#2)		ND	UG/A	6000.0
C525 2-CHLORONAPHTHALENE		ND	UG/A	3000.0
1-CHLORONAPHTHALENE		ND	UG/A	1500.0
C530 2-NITROANILINE		ND	UG/A	15000.0
1,4-NAPHTHOQUINONE		ND	UG/A	3000.0
C535 DIMETHYLPHTHALATE		ND	UG/A	3000.0
1,3-DINITROBENZENE		ND	UG/A	3000.0
C540 ACENAPHTHYLENE		ND	UG/A	3000.0
C543 2,6-DINITROTOLUENE		ND	UG/A	3000.0
C545 3-NITROANILINE		ND	UG/A	15000.0
C550 ACENAPHTHENE		ND	UG/A	3000.0
C555 2,4-DINITROPHENOL		ND	UG/A	15000.0
C565 DIBENZOFURAN		ND	UG/A	3000.0
C560 4-NITROPHENOL		ND	UG/A	15000.0
PENTACHLOROBENZENE		ND	UG/A	3000.0
C570 2,4-DINITROTOLUENE		ND	UG/A	3000.0
1-NAPHTHYLAMINE		ND	UG/A	3000.0
2-NAPHTHYLAMINE		ND	UG/A	3000.0
2,3,4,6-TETRACHLOROPHENOL		ND	UG/A	6000.0
C580 DIETHYLPHTHALATE		ND	UG/A	3000.0
C590 FLUORENE		ND 560	UG/A	3000.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 30068111
Std Id: ST16980831

Sample: S-MM5-5 1/3SA/100M INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:58
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C585 4-CHLOROPHENYL-PHENYLE		ND	UG/A	3000.0
5-NITRO-O-TOLUIDINE		ND	UG/A	3000.0
C595 4-NITROANALINE		ND	UG/A	15000.0
C610 4,6-DINITRO-2-METHYLPH		ND	UG/A	15000.0
C615 N-NITROSODIPHENYLAMINE		ND	UG/A	3000.0
C620 AZOBENZENE		ND	UG/A	3000.0
SYM-TRINITROBENZENE		ND	UG/A	3000.0
C625 4-BROMOPHENYL-PHENYLET		ND	UG/A	3000.0
PHENACETIN		ND	UG/A	3000.0
DIALATE	234	ND	UG/A	3000.0
C630 HEXACHLOROBENZENE		ND	UG/A	3000.0
4-AMINOBIIPHENYL		ND	UG/A	3000.0
C635 PENTACHLOROPHENOL		ND	UG/A	15000.0
PRONAMIDE		ND	UG/A	3000.0
PENTACHLORONITROBENZENE		ND	UG/A	15000.0
C640 PHENANTHRENE		ND	UG/A	3000.0
C645 ANTHRACENE		ND	UG/A	3000.0
2SECBUTYL-4,6-DINITROPHENOL		ND	UG/A	3000.0
C647 CARBAZOLE		ND	UG/A	3000.0
C650 DI-N-BUTYLPHTHALATE		ND	UG/A	3000.0
4-NITROQUINOLINE-1-OXIDE		ND	UG/A	3000.0
METHAPYRILENE		ND	UG/A	3000.0
ISODRIN		ND	UG/A	3000.0
C655 FLUORANTHENE		ND	UG/A	3000.0
CHLOROBENZILATE		ND	UG/A	3000.0
C710 BENZIDINE		ND	UG/A	30000.0
C715 PYRENE		ND	UG/A	3000.0
ARAMITE (#1)		ND	UG/A	3000.0
ARAMITE (#2)		ND	UG/A	3000.0
P-DIMETHYLAMINOAZOBENZENE		ND	UG/A	3000.0
3,3'-DIMETHYLBENZIDINE		ND	UG/A	3000.0
KEPONE		ND	UG/A	15000.0
C720 BUTYLBENZYLPHTHALATE		ND	UG/A	3000.0
2-ACETYLAMINOFLUORENE		ND	UG/A	3000.0
C730 BENZO(A)ANTHRACENE		ND	UG/A	3000.0
C725 3,3'-DICHLOROBENZIDINE		ND	UG/A	6000.0
C740 CHRYSENE		ND	UG/A	3000.0
C745 BIS(2-ETHYLHEXYL)PHTHA		ND	UG/A	3000.0
3-METHYLCHOLANTHRENE		ND	UG/A	3000.0
C760 DI-N-OCTYL PHTHALATE		ND	UG/A	3000.0
C765 BENZO(B)FLUORANTHENE		ND	UG/A	3000.0
7,12-DIMETHYLBENZANTHRACENE		ND	UG/A	3000.0
C770 BENZO(K)FLUORANTHENE		ND	UG/A	3000.0
HEXACHLOROPHENE	1761	ND	UG/A	3000.0

OK (1200)

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2 9/16 GP

1397

QUANTERRA GC/MS
Target Compound Data Summary Sheet

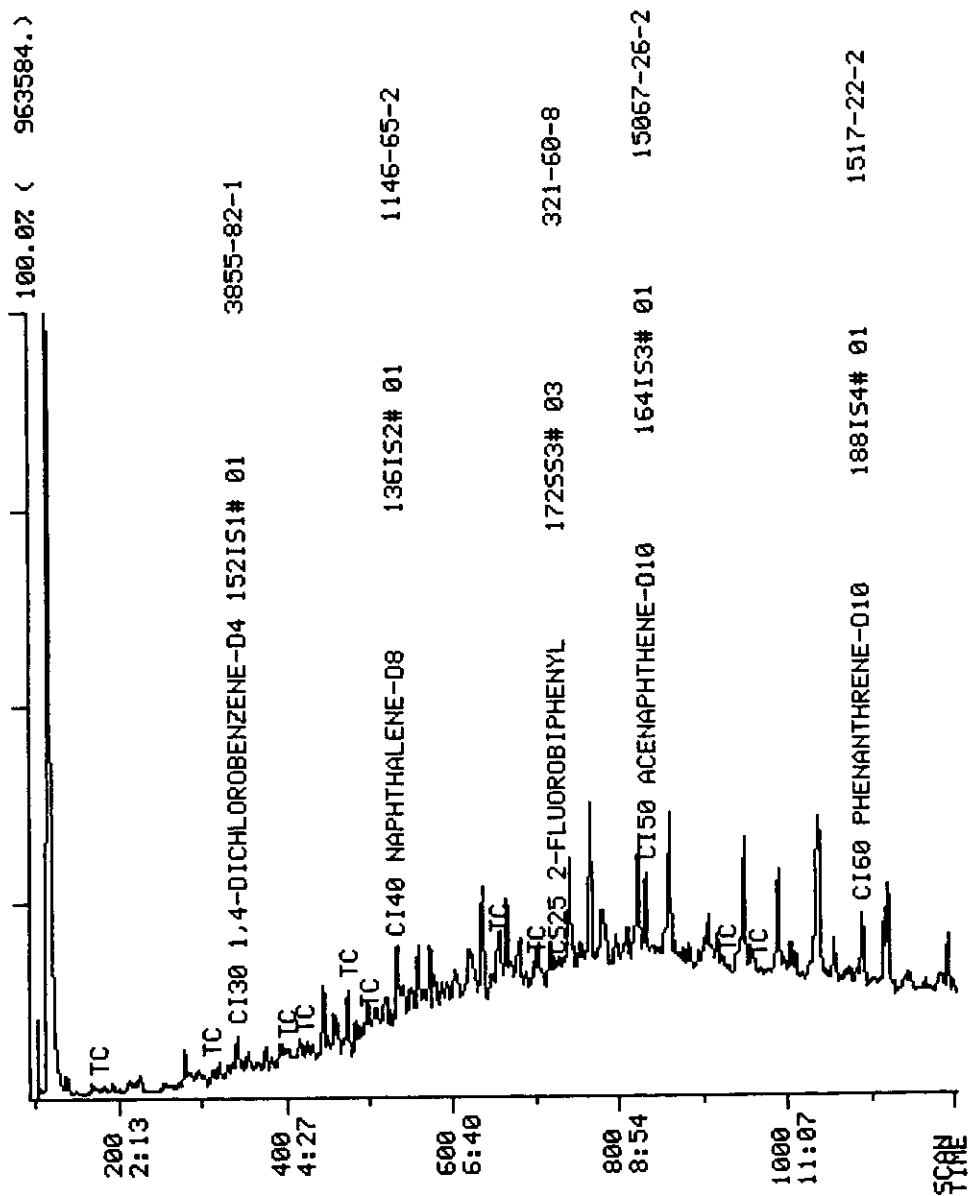
Data File: 30068111
Std Id: ST16980831

Sample: S-MM5-5 1/3SA/100M INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 23:58
Analyst: DAT Instrument ID: F16 Run Factor: 300.
Quan List Threshold: 0.95 Surrogate Vol.: 100.

Target Compounds: SAP9

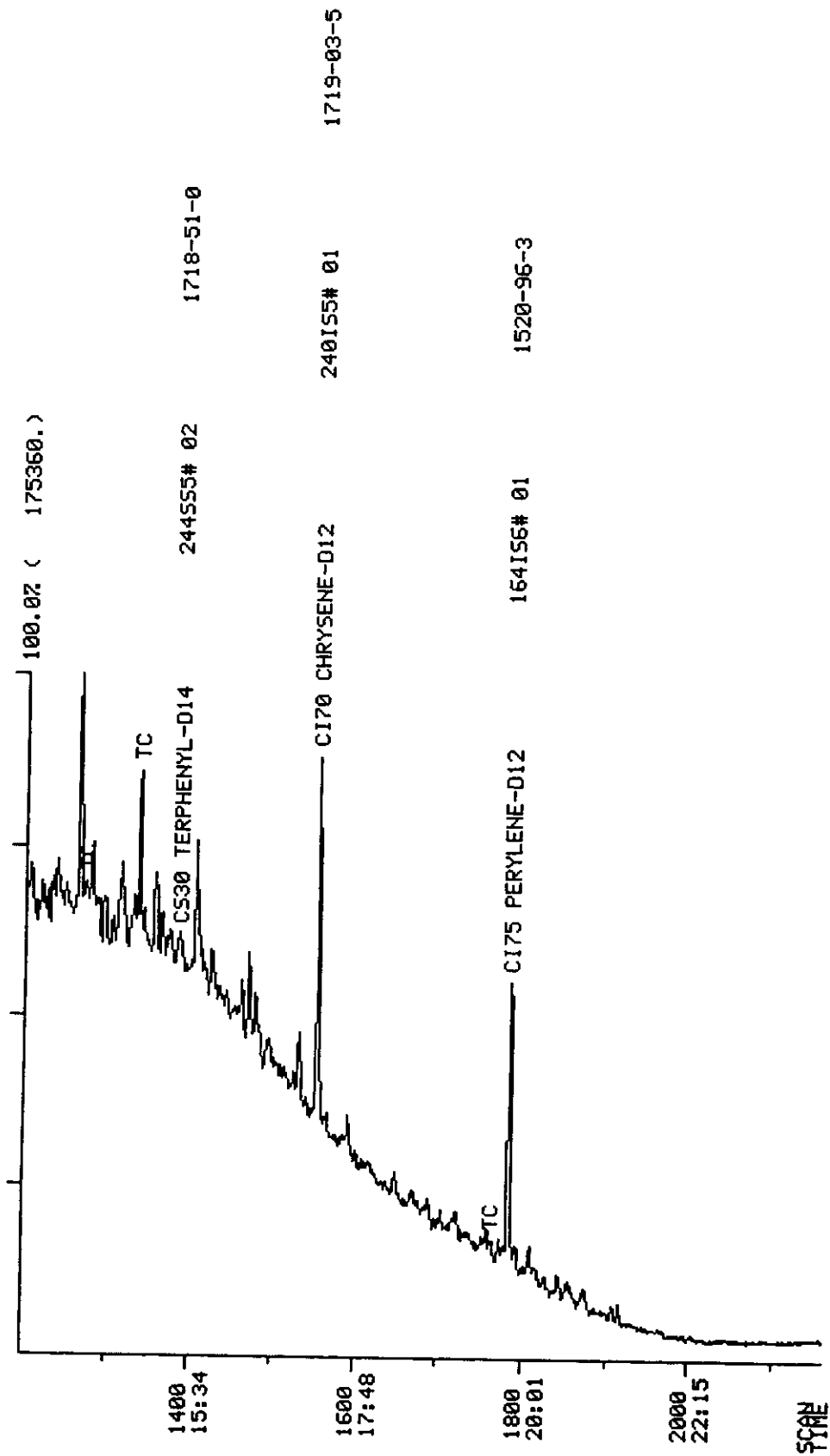
Parameter	Scan	Result	Units	Reporting Limit
C775 BENZO(A)PYRENE		ND	UG/A	3000.0
C780 INDENO(1,2,3-CD)PYRENE		ND	UG/A	3000.0
C785 DIBENZ(A,H)ANTHRACENE		ND	UG/A	3000.0
C790 BENZO(G,H,I)PERYLENE		ND	UG/A	3000.0

DATA FROM FILE: 30068111 SCANS 93 TO 1203 ACQUIRED: 08/31/98 23:58:00
CALI: 30068111 #3
SAMPLE: S-MMS-5 1/3SA/100M INST. ID: F16
CONDS.: UG/ML *100Z/100Z *CNA/NA >1/3SA NA M



1393

DATA FROM FILE: 30068111 SCANS 1203 TO 2158 ACQUIRED: 08/31/98 23:58:00
 CALI: 30068111 #3
 SAMPLE: S-MM5-5 1/35A/100M INST. ID: F16
 CONDS.: UG/ML *100ML *100%*(NA/NA) /1/35A NA M



1400

STANDARD USED FOR THIS REPORT IS ST16980831

REPORT PRINTED: 9/02/98 2:38:25

ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 30068111

Sample: S-MM5-5 1/3SA/100M INST. ID: F16
Analyst: DAT Instrument Id: F16 Analyzed: 08/31/98 23:58

Compounds with amounts less than 0.20 reported as NOT FOUND

Library		Units: UG/ML				
No Entry	Name	Mass Meth Scan Ref	Area RRF(L)	Amount		
1 S1#	1 C130 1,4-DICHLOROBENZENE	152 A BV 340 1	30555. 1.000	40.000		
2 S2#	1 C140 NAPHTHALENE-D8	136 A VB 530 2	109200. 1.000	40.000		
3 S3#	1 C150 ACENAPHTHENE-D10	164 A BB 830 3	62156. 1.000	40.000		
4 S4#	1 C160 PHENANTHRENE-D10	188 A BB 1088 4	110919. 1.000	40.000		
5 S5#	1 C170 CHRYSENE-D12	240 A BB 1553 5	89347. 1.000	40.000		
6 S6#	1 C175 PERYLENE-D12	264 A BB 1783 6	73934. 1.000	40.000		
7 S2#	2 CS20 NITROBENZENE-D5	82 2 NOT FOUND				
8 S3#	3 CS25 2-FLUOROBIPHENYL	172 A BB 724 3	2070. 1.234	1.079		
9 S5#	2 CS30 TERPHENYL-D14	244 A BB 1385 5	1349. 0.995	0.607		
10 S1#	3 CS45 PHENOL-D5	99 1 NOT FOUND				
11 S1#	2 CS50 2-FLUOROPHENOL	112 1 NOT FOUND				
12 S3#	2 CS55 2,4,6-TRIBROMOPHENO	330 A BB 972 3	276. 0.236	0.754		
13 S4#	4 HEXACHLOROBENZENE-C13	294 4 NOT FOUND				
14 S1#	15 C310 N-NITROSODIMETHYLAM	74 1 NOT FOUND				
15 S1#	20 PYRIDINE	79 1 NOT FOUND				
16 S1#	30 2-PICOLINE	93 1 NOT FOUND				
17 S1#	40 N-NITROSOMETHYLETHYLAMIN	42 A VV 174 1	2680. 0.811	4.325		
18 S1#	60 METHYLMETHANESULFONATE	80 1 NOT FOUND				
19 S1#	70 N-NITROSODIETHYLAMINE	102 1 NOT FOUND				
20 S1#	85 ETHYLMETHANE SULFONATE	79 1 NOT FOUND				
21 S1#	95 PENTACHLOROETHANE	117 A BB 306 1	296. 0.602	0.644		
22 S1#	100 C320 ANILINE	93 1 NOT FOUND				
23 S1#	105 C315 PHENOL	94 A BB 311 1	1764. 1.968	1.174		
24 S1#	110 C325 BIS(2-CHLOROETHYL)E	93 A BB 319 1	232. 1.368	0.222		
25 S1#	115 C330 2-CHLOROPHENOL	128 1 NOT FOUND				
26 S1#	125 C335 1,3-DICHLOROBENZENE	146 1 NOT FOUND				
27 S1#	130 C340 1,4-DICHLOROBENZENE	146 1 NOT FOUND				
28 S1#	145 C345 BENZYL ALCOHOL	108 A BB 373 1	515. 0.854	0.789		
29 S1#	150 C350 1,2-DICHLOROBENZENE	146 1 NOT FOUND				
30 S1#	160 C355 2-METHYLPHENOL	108 1 NOT FOUND				
31 S1#	165 C360 2,2'-OXYBIS(1-CLPRO	45 1 NOT FOUND				
32 S1#	170 C361 ACETOPHENONE	105 A BB 400 1	5565. 1.934	3.767		
33 S1#	175 N-NITROSOPYRROLIDINE	100 1 NOT FOUND				
34 S1#	180 N-NITROSOMORPHOLINE	56 A BB 410 1	3449. 0.821	5.503		
35 S1#	182 3-METHYL PHENOL	108 A BB 419 1	1130. 2.252	0.657		
36 S1#	185 C365 4-METHYLPHENOL	108 1 NOT FOUND				
37 S1#	190 C370 N-NITROSO-DI-N-PROP	70 A VB 403 1	584. 0.906	0.844		
38 S1#	195 O-TOLUIDINE	106 1 NOT FOUND				
39 S1#	200 C375 HEXACHLOROETHANE	117 1 NOT FOUND				
40 S2#	10 C410 NITROBENZENE	77 A VB 422 2	1803. 0.445	1.484		
41 S2#	15 N-NITROSOPIPERIDINE	42 2 NOT FOUND				
42 S2#	20 C415 ISOPHORONE	82 A BB 473 2	8202. 0.741	4.053		
43 S2#	25 C420 2-NITROPHENOL	139 2 NOT FOUND				
44 S2#	30 C425 2,4-DIMETHYLPHENOL	107 A BB 500 2	1569. 0.330	1.742		
45 S2#	35 C435 BIS(2-CHLOROETHOXY)	93 2 NOT FOUND				

9/6/98
10/6/98

1401

46	S2# 40	C440 2,4-DICHLOROPHENOL	162 A BB	520 2	312. 0.308	0.372
47	S2# 45	C430 BENZOIC ACID	122	2 NOT FOUND		
48	S2# 50	AA-DIMETHYLPHENETHYLAMIN	58	2 NOT FOUND		
49	S2# 55	C445 1,2,4-TRICHLOROBENZ	180 A VV	524 2	454. 0.331	0.503

50 S2# 60 C450 NAPHTHALENE	128 A BV	533 2	24195. 1.022	8.670	
51 S2# 80 C455 4-CHLOROANILINE	127 A BB	556 2	439. 0.454	0.354	
52 S2# 85 2,6-DICHLOROPHENOL	162	2	NOT FOUND		
53 S2# 90 HEXACHLOROPROPENE	213	2	NOT FOUND		
54 S2# 95 C460 HEXACHLOROBUTADIENE	225	2	NOT FOUND		
55 S2#115 P-PHENYLENE DIAMINE	108	2	NOT FOUND		
56 S2#120 N-NITROSODI-N-BUTYLAMINE	84	2	NOT FOUND		
57 S2#130 C465 4-CHLORO-3-METHYLPH	107	2	NOT FOUND		
58 S2#140 SAFROLE	162 A BB	652 2	1274. 0.248	1.884	
59 S2#145 C470 2-METHYLNAPHTHALENE	142 A BB	653 2	30297. 0.751	14.772	
60 S3# 10 1,2,4,5-TETRACHLOROBENZE	214	3	NOT FOUND		
61 S3# 15 ISOSAFROLE (#1)	162 A BB	698 3	1034. 0.044	15.245	
62 S3# 20 C510 HEXACHLOROCYCLOPENT	237	3	NOT FOUND		
63 S3# 25 C515 2,4,6-TRICHLOROPHEN	196	3	NOT FOUND		
64 S3# 30 C520 2,4,5-TRICHLOROPHEN	196	3	NOT FOUND		
65 S3# 35 ISOSAFROLE (#2)	104 A BB	739 3	420. 0.195	1.388	
66 S3# 40 C525 2-CHLORONAPHTHALENE	162	3	NOT FOUND		
67 S3# 42 1-CHLORONAPHTHALENE	162	3	NOT FOUND		
68 S3# 45 C530 2-NITROANILINE	65 A BB	764 3	476. 0.502	0.611	
69 S3# 50 1,4-NAPHTHOQUINONE	158	3	NOT FOUND		
70 S3# 55 C535 DIMETHYLPHTHALATE	163	3	NOT FOUND		
71 S3# 60 1,3-DINITROBENZENE	168	3	NOT FOUND		
72 S3# 65 C540 ACENAPHTHYLENE	152	3	NOT FOUND		
73 S3# 70 C543 2,6-DINITROTOLUENE	165	3	NOT FOUND		
74 S3# 75 C545 3-NITROANILINE	138	3	NOT FOUND		
75 S3# 80 C550 ACENAPHTHENE	153 A BV	835 3	1969. 1.159	1.094	
76 S3# 85 C555 2,4-DINITROPHENOL	184 A BV	859 3	206. 0.189	0.700	
77 S3# 90 C565 DIBENZOFURAN	168 A BB	867 3	1131. 1.669	0.436	
78 S3# 95 C560 4-NITROPHENOL	109	3	NOT FOUND		
79 S3#100 PENTACHLOROBENZENE	250	3	NOT FOUND		
80 S3#105 C570 2,4-DINITROTOLUENE	165 A BB	882 3	391. 0.397	0.634	
81 S3#110 1-NAPHTHYLAMINE	143	3	NOT FOUND		
82 S3#115 2-NAPHTHYLAMINE	143 A BB	902 3	472. 0.966	0.314	
83 S3#120 2,3,4,6-TETRACHLOROPHENO	232 A BB	898 3	155. 0.297	0.336	
84 S3#130 C580 DIETHYLPHTHALATE	149	3	NOT FOUND		
85 S3#135 C590 FLUORENE	166 A BB	927 3	3769. 1.298	1.869	
86 S3#140 C585 4-CHLOROPHENYL-PHEN	204	3	NOT FOUND		
87 S3#145 5-NITRO-O-TOLUIDINE	152 A VB	942 3	1772. 0.356	3.209	
88 S3#150 C595 4-NITROANILINE	138 A BB	949 3	396. 0.307	0.830	
89 S4# 10 C610 4,6-DINITRO-2-METHY	198	4	NOT FOUND		
90 S4# 15 C615 N-NITROSODIPHENYLAM	169 A VB	964 4	3698. 0.551	2.422	
91 S4# 20 C620 AZOBENZENE	77	4	NOT FOUND		
92 S4# 25 SYM-TRINITROBENZENE	75	4	NOT FOUND		
93 S4# 30 C625 4-BROMOPHENYL-PHENY	248	4	NOT FOUND		
94 S4# 35 PHENACETIN	108	4	NOT FOUND		
95 S4# 37 DIALLATE	234	4	NOT FOUND		
96 S4# 40 C630 HEXACHLOROBENZENE	284	4	NOT FOUND		
97 S4# 45 4-AMINOBIIPHENYL	169	4	NOT FOUND		
98 S4# 50 C635 PENTACHLOROPHENOL	266	4	NOT FOUND		
99 S4# 55 PRONAMIDE	173	4	NOT FOUND		
100 S4# 60 PENTACHLORONITROBENZENE	237 A BB	1064 4	72. 0.080	0.323	
101 S4# 65 C640 PHENANTHRENE	178 A BB	1091 4	11634. 1.033	4.063	
102 S4# 70 C645 ANTHRACENE	178	4	NOT FOUND		
103 S4# 75 2SECBUTYL-4,6-DINITROPHE	211	4	NOT FOUND		
104 S4# 80 C647 CARBAZOLE	167 A BB	1149 4	472. 0.764	0.223	
105 S4# 85 C650 DI-N-BUTYLPHTHALATE	149	4	NOT FOUND		
106 S4#100 4-NITROQUINOLINE-1-OXIDE	190 A BB	1240 4	183. 0.073	0.910	
107 S4#105 METHAPYRILENE	58	4	NOT FOUND		
108 S4#106 ISODRIN	193 A VV	1272 4	2153. 0.127	6.130	
109 S4#110 C655 FLUORANTHENE	202 A BB	1300 4	591. 0.900	0.237	
110 S4#120 CHLOROBENZILATE	139	4	NOT FOUND		

2601

4432

561

1219

1408

111 S5# 10 C710 BENZIDINE	184	5	NOT FOUND		
112 S5# 15 C715 PYRENE	202 A BB 1336	5	2966.	1.323	1.004
113 S5# 20 ARAMITE (#1)	185	5	NOT FOUND		
114 S5# 25 ARAMITE (#2)	185	5	NOT FOUND		
115 S5# 30 P-DIMETHYLAMINOAZOBENZEN	120	5	NOT FOUND		
116 S5# 35 3,3'-DIMETHYLBENZIDINE	212	5	NOT FOUND		
117 S5# 37 KEPONE	272	5	NOT FOUND		
118 S5# 40 C720 BUTYLBENZYLPHTHALAT	149	5	NOT FOUND		
119 S5# 45 2-ACETYLAMINOFLUORENE	181	5	NOT FOUND		
120 S5# 50 C730 BENZO(A)ANTHRACENE	228 A BB 1556	5	1877.	1.125	0.747
121 S5# 55 C725 3,3'-DICHLOOROBENZID	252	5	NOT FOUND		
122 S5# 60 C740 CHRYSENE	228 A BB 1556	5	1877.	1.014	0.828
123 S5# 65 C745 BIS(2-ETHYLHEXYL)PH	149	5	NOT FOUND		
124 S5# 85 3-METHYLCHOLANTHRENE	268	5	NOT FOUND		
125 S6# 10 C760 D1-N-OCTYL PHTHALAT	149	6	NOT FOUND		
126 S6# 15 C765 BENZO(B)FLUORANTHEN	252	6	NOT FOUND		
127 S6# 20 7,12-DIMETHYLBENZANTHRAC	256	6	NOT FOUND		
128 S6# 25 C770 BENZO(K)FLUORANTHEN	252	6	NOT FOUND		
129 S6# 30 HEXACHLOROPHENE	196 A VB 1761	6	130.	0.004	17.527
130 S6# 35 C775 BENZO(A)PYRENE	252	6	NOT FOUND		
131 S6# 55 C780 INDENO(1,2,3-CD)PYR	276	6	NOT FOUND		
132 S6# 60 C785 DIBENZ(A,H)ANTHRACE	278	6	NOT FOUND		
133 S6# 65 C790 BENZO(G,H,I)PERYLEN	276	6	NOT FOUND		

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.=+200		4.28	200864.=+200		6.40	108695.=+200		9.71
Lower Limit	14324.=+ 50		3.28	50216.=+ 50		5.40	27174.=+ 50		8.71
Filename									
1 30068111	30555.= 106		3.78	109200.= 108		5.90	62156.= 114		9.23

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.=+200		12.58	124578.=+200		17.76	101500.=+200		20.33
Lower Limit	49260.=+ 50		11.58	31145.=+ 50		16.76	25375.=+ 50		19.33
Filename									
1 30068111	110919.= 112		12.10	89347.= 143		17.27	73934.= 145		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

TARGET COMPOUND COMPARISON

COMPOUND: C450 NAPHTHALENE

128 52# 60

91-20-3

RAW DATA: 30068111 #533

08/31/98 23:58

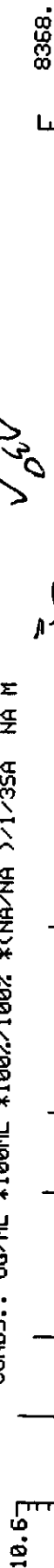
SAMPLE: S-MMS-5 1/35A/100M

CONDOS.: UG/ML *100Z/100Z *(NA/NA >1/35A NA M

BASE M/Z: 41 RIC: 134400.

INST. ID: F16

✓30



ENHANCED DATA: 30068111 #533

BASE M/Z: 128 RIC: 19840.



STANDARD FILE: ST16980831 #533

08/31/98 12:31

BASE M/Z: 128 RIC: 195840.



M/Z
100.0
50.0
0.0
-50.0
-100.0

50 100 150 200 250

OUT

TARGET COMPOUND COMPARISON

COMPOUND: C470 2-METHYLNAPHTHALENE 142 S2#145

91-57-6

BASE M/Z: 41 RIC: 194304.

RAW DATA: 30068111 #653

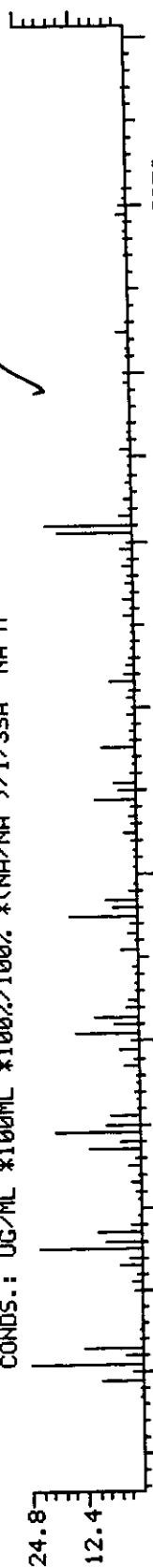
08/31/98 23:58

SAMPLE: S-MMS-5 1/3SA/100M

INST. ID: F16

CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA) /1/3SA NA M

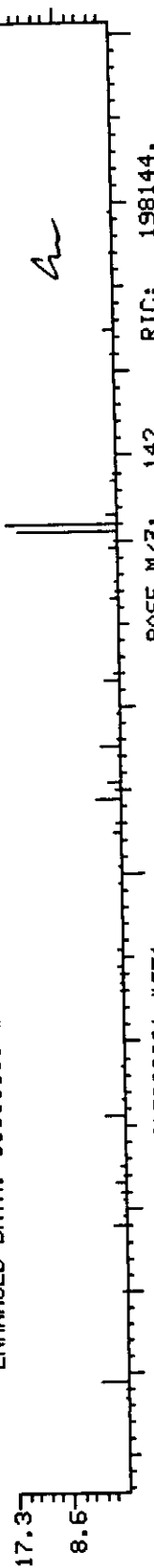
12368.



ENHANCED DATA: 30068111 #653

BASE M/Z: 142 RIC: 37952.

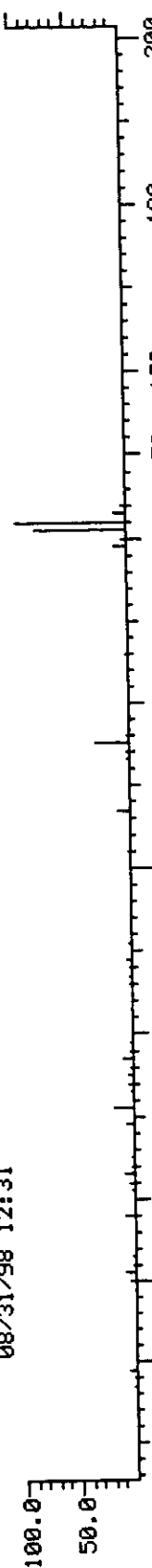
8508.



STANDARD FILE: ST16980831 #651

BASE M/Z: 142 RIC: 198144.

49792.



OUT

TARGET COMPOUND COMPARISON

COMPOUND: C590 FLUORENE

155 S3#135

86-73-7

RAW DATA: 30068111 #927

08/31/98 23:58

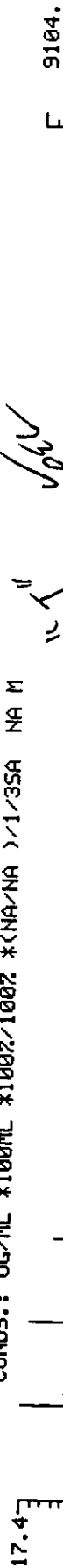
SAMPLE: S-MM5-5 1/3SA/100M

COND.: UG/ML *100ML *100Z/100Z *(NA/NA) 1/3SA NA M

INST. ID: F16

BASE M/Z: 41 RIC: 156150.

123 *spv*



ENHANCED DATA: 30068111 #927

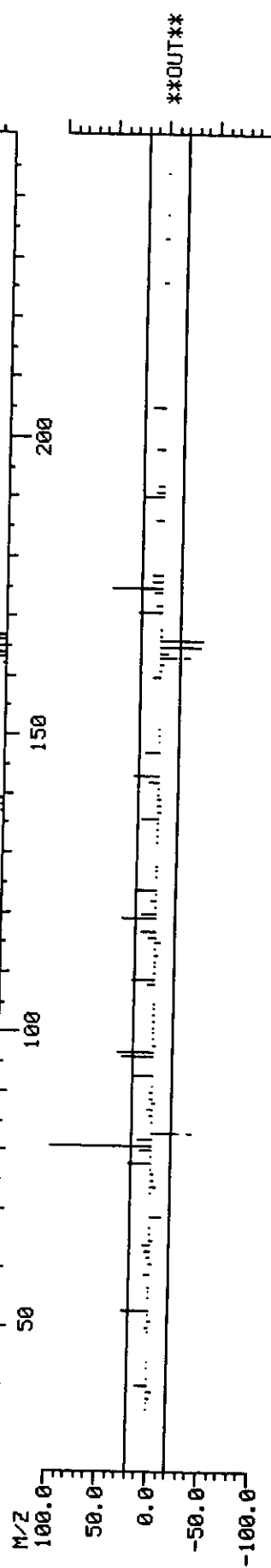
BASE M/Z: 81 RIC: 14336.



STANDARD FILE: ST16980831 #926

08/31/98 12:31

BASE M/Z: 166 RIC: 203520.



TARGET COMPOUND COMPARISON

COMPOUND: C640 PHENANTHRENE

178 S4# 65

85-01-8

RAW DATA: 30068111 #1091

08/31/98 23:58

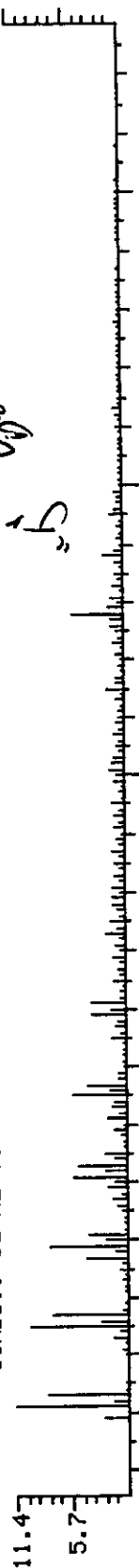
SAMPLE: S-MM5-5 1/35A/100M

INST. ID: F16

CONDS.: UG/ML *100Z/100Z *(NA/NA) /1/35A NA M

BASE M/Z: 41 RIC: 155392.

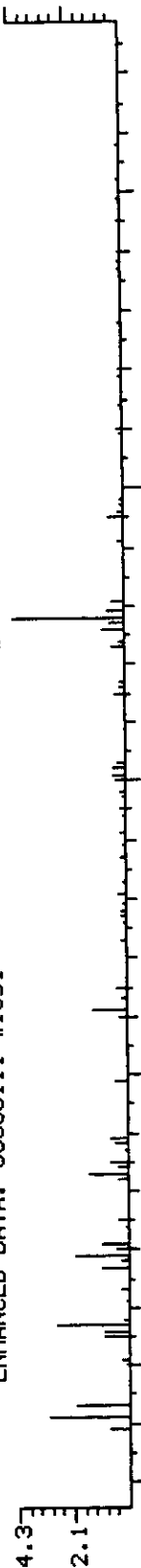
8352.



ENHANCED DATA: 30068111 #1091

BASE M/Z: 178 RIC: 27648.

3148.

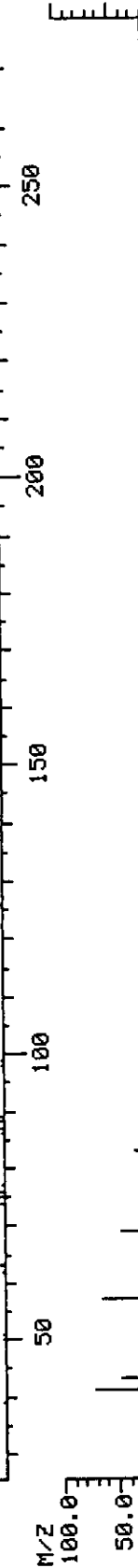


STANDARD FILE: ST16980831 #1091

BASE M/Z: 178 RIC: 204544.

08/31/98 12:31

73344.



OUT

Data Reduced by: 2 Date: 9/18/98
Data Reviewed by: Date:

Data File: 30068111

QUANTERRA GC/MS TIC REPORT (Part 1)

Sample: S-MM5-5 1/3SA/100M

INST. ID: F16

Analyst: DAT

Date Analyzed: 08/31/98 23:58

Run Factor: 300.

Concentration in Sample			
# SCAN	(UG/A)	CAS #	
1 444	11000.	29812-79-1	unknown 5700
~~HYDROXYLAMINE, O-DECYL-~~			
X 456	7100.	2958-76-1	
~~NAPHTHALENE, DECAHYDRO-2-METHYL-~~			
3 473	13000.	71899-38-2	
9-EICOSYNE			
4 557	9200.	1002-17-1	or isomer
DECANE, 2,9-DIMETHYL-			
5 570	9500.	17301-23-4	
UNDECANE, 2,6-DIMETHYL-			
X 600	7600.	00-00-0	5700
UNKNOWN			
7 618	15000.	90991-16-7	unknown 5700
~~1,1'-BICYCLOHEXYL, 2-(1-METHYLETHYL)-, TRANS~~			
8 633	20000.	26730-14-3	alkane 5746400
~~TRIDECANE, 7-METHYL~~			
9 655	12000.	36653-82-4	unknown 5700
~~1-HEXADECANOL~~			
10 663	11000.	1120-21-4	alkane
~~UNDECANE~~			

11 679 10000. 00-00-0
UNKNOWN

5700

12 701 12000. 00-00-0
UNKNOWN

~~13~~ 715 8100. 00-00-0
UNKNOWN

14 739 19000. 3891-98-3
DODECANE, 2,6,10-TRIMETHYL- *or isomer*

15 764 25000. 629-59-4
TETRADECANE

16 778 15000. 00-00-0
UNKNOWN

5700

~~17~~ 809 7500. 00-00-0
UNKNOWN

18 821 22000. 18344-37-1
HEPTADECANE, 2,6,10,14-TETRAMETHYL- *or isomer*

19 859 25000. 17312-57-1
DODECANE, 3-METHYL-

20 904 13000. 7390-81-0
OXIRANE, HEXADECYL-

21 948 27000. ~~629-92-5~~
NONADECANE

alkane

5746400

22 988 14000. ~~55038-62-1~~
TRIDECANE, 4,8-DIMETHYL-

23 1036 28000. 54105-67-8
HEPTADECANE, 2,6-DIMETHYL- *or isomer*

~~24~~ 1114 7500. ~~29812-79-1~~
~~HYDROXYLAMINE, O-DECYL~~ *alkane*

25 1119 11000. 629-92-5
NONADECANE *or isomer*

QUANTERRA GC/MS TIC REPORT (Part 2)

CONCENTRATION = AREA(TIC)*CONC(IS)/AREA(IS)

			INT.				AMOUNT		AS ANALYZED			
#	FIT	PURITY	STD.	RT	RRT	AREA	HEIGHT	(UG/ML)	LIB	LIB #		
1	934	591	2	4:56	0.535	320640.	84352.	37.754	NB	15969.		
2	971	771	2	5:04	0.549	201408.	45952.	23.715	NB	10432.		
3	906	673	2	5:15	0.570	358080.	80768.	42.163	NB	39230.		
4	958	860	2	6:11	0.671	259712.	77696.	30.580	NB	15357.		
5	941	828	2	6:20	0.687	268160.	77952.	31.575	NB	19054.		
6	827	659	2	6:40	0.723	216448.	37376.	25.486	UK	1.		
7	923	673	2	6:52	0.745	413696.	49810.	48.711	NB	24994.		
8	923	768	2	7:02	0.763	569856.	136550.	67.099	NB	22534.		
9	923	655	2	7:17	0.789	345108.	61049.	40.635	NB	32420.		
10	959	854	2	7:22	0.799	298496.	96768.	35.147	NB	11607.		
11	874	355	2	7:33	0.818	289024.	57344.	34.032	UK	1.		
12	887	427	2	7:47	0.845	350208.	52736.	41.236	UK	1.		
13	904	453	2	7:57	0.861	228352.	50432.	26.888	UK	1.		
14	956	817	2	8:13	0.890	537600.	135936.	63.301	NB	25991.		
15	950	710	2	8:29	0.920	719104.	193280.	84.672	NB	22530.		
16	837	424	2	8:39	0.937	431872.	61440.	50.852	UK	1.		
17	949	562	2	8:59	0.975	212992.	42240.	25.079	UK	1.		
18	967	804	2	9:07	0.989	613120.	137984.	72.193	NB	42196.		
19	953	759	2	9:33	1.035	706304.	171008.	83.165	NB	19007.		
20	880	641	2	10:03	1.089	359680.	56576.	42.351	NB	37444.		
21	958	828	2	10:32	1.142	754944.	160256.	88.892	NB	37465.		
22	923	808	3	10:59	0.908	519680.	129024.	45.516	NB	25996.		
23	973	865	3	11:31	0.952	1063170.	190464.	93.117	NB	37462.		
24	960	765	3	12:23	1.024	286976.	90112.	25.135	NB	15969.		
25	958	834	3	12:26	1.028	421376.	126720.	36.906	NB	37465.		

Library Search Data: 30068111 # 444 Base m/z: 43
 08/31/98 23:58:00 + 4:56 Cali: 30068111 # 3 RIC: 73216.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 797 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 15969 HYDROXYLAMINE, O-DECYL-
 2 19523 1-DECANOL, 2-ETHYL-
 3 5049 OXIRANE, (3,3-DIMETHYLBUTYL)-
 4 19015 DECANE, 2,5,6-TRIMETHYL-
 5 12050 1-OCTANOL, 2,7-DIMETHYL-
 6 11565 ISOOCTANE, (ETHENYLOXY)-
 7 14793 1-UNDECENE, 4-METHYL-
 8 12074 1-HEPTANOL, 2-PROPYL-
 9 12492 DECANE, 1-FLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	591	934	623
2	C12.H26.O	186	57	591	921	621
3	C8.H16.O	128	57	585	939	585
4	C13.H28	184	57	583	926	589
5	C10.H22.O	158	43	579	931	584
6	C10.H20.O	156	43	579	951	601
7	C12.H24	168	43	573	901	610
8	C10.H22.O	158	43	573	915	600
9	C10.H21.F	160	43	572	914	592

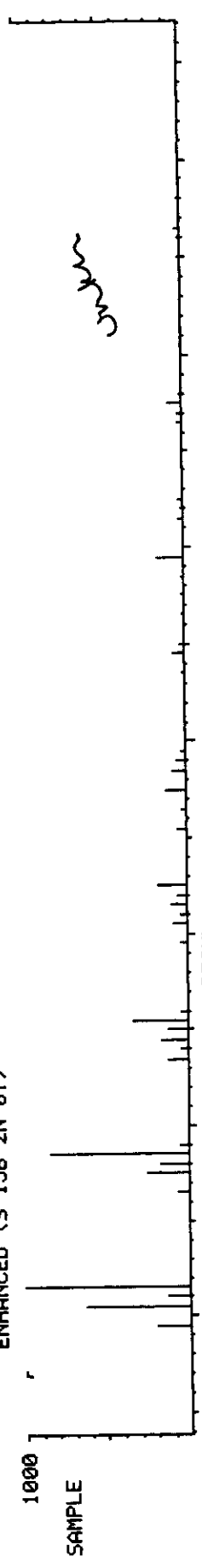
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	29812-79-1
2	—	—	—	—	21078-65-9
3	—	—	—	—	53907-77-0
4	—	—	—	—	62108-23-0
5	—	—	—	—	15250-22-3
6	—	—	—	—	37769-62-3
7	—	—	—	—	74630-39-0
8	—	—	—	—	10042-59-8
9	—	—	—	—	334-56-5

DATA: 30068111 # 444
CALI: 30068111 # 3

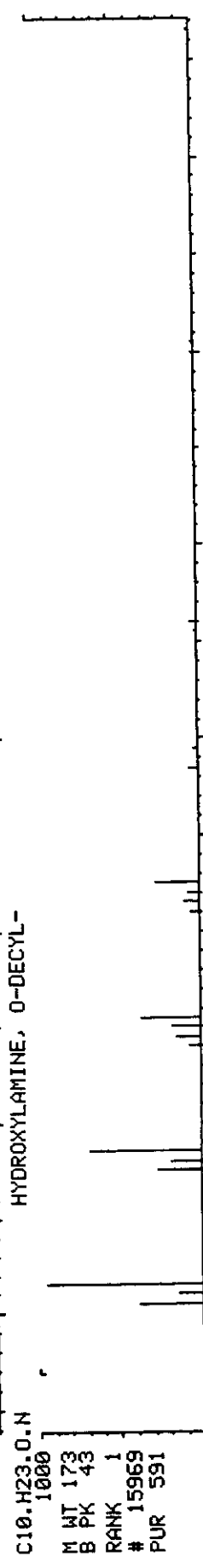
BASE M/Z: 43
RIC: 73216.

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:58:00 + 4:56
SAMPLE: S-MM5-5 1/35A/100M
COND.S.: UG/ML *100ML *100Z/100Z *KNA/NA >1/35A NA M
ENHANCED (S 158 2N 0T)

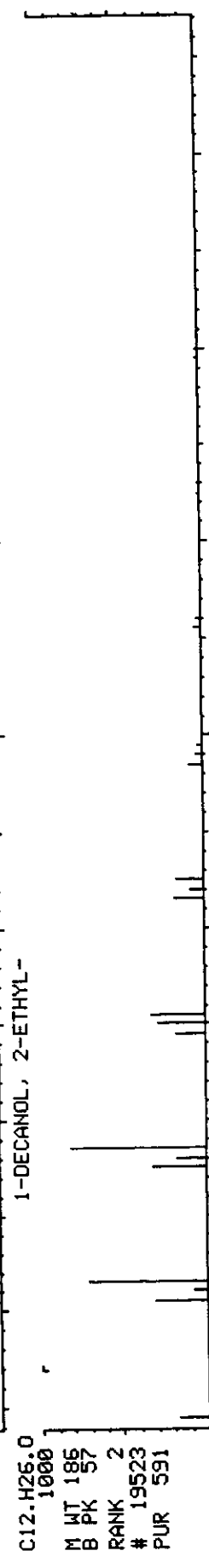
INST. ID: F15



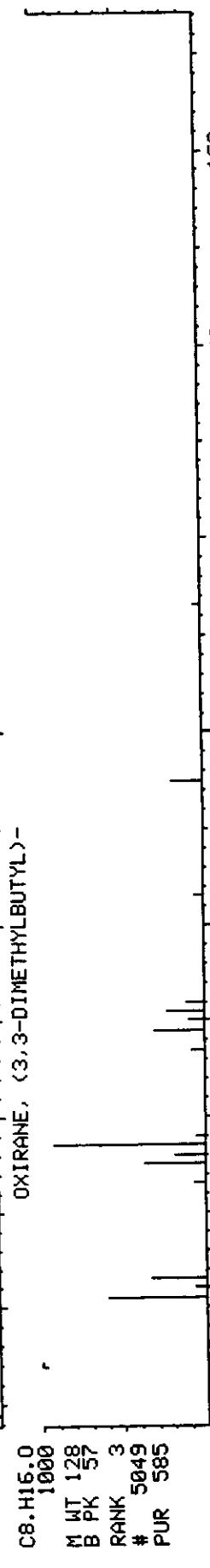
HYDROXYLAMINE, O-DECYL-



1-DECANOL, 2-ETHYL-



OXIRANE, (3,3-DIMETHYLBUTYL)-



M/Z

14101

Library Search Data: 30068111 # 456 Base m/z: 81
 08/31/98 23:58:00 + 5:04 Cali: 30068111 # 3 RIC: 40192.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 475 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 10432 NAPHTHALENE, DECAHYDRO-2-METHYL-
 2 10376 BICYCLO[4.1.0]HEPTAN-3-ONE, 4,7,7-TRIMETHYL-, [1R-(1.ALPHA.,4.ALPHA.*
 3 10357 BICYCLO[4.1.0]HEPTAN-3-ONE, 4,7,7-TRIMETHYL-, [1R-(1.ALPHA.,4.BETA.*
 4 10304 CYCLOHEXANONE, 2-METHYL-5-(1-METHYLETHENYL)-
 5 10349 2H-INDEN-2-ONE, OCTAHYDRO-3A-METHYL-, CIS-
 6 10358 CYCLOHEXANONE, 2-METHYL-5-(1-METHYLETHENYL)-, TRANS-
 7 10352 CYCLOHEXANONE, 5-METHYL-2-(1-METHYLETHYLIDENE)-
 8 17938 1,12-TRIDECADIENE
 9 10355 CYCLOHEXANONE, 5-METHYL-2-(1-METHYLETHENYL)-, TRANS-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H20	152	95	771	971	771
2	C10.H16.O	152	81	757	948	757
3	C10.H16.O	152	81	752	941	752
4	C10.H16.O	152	67	715	938	715
5	C10.H16.O	152	95	714	914	714
6	C10.H16.O	152	95	709	930	709
7	C10.H16.O	152	81	704	934	704
8	C13.H24	180	55	703	851	713
9	C10.H16.O	152	81	695	925	695

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	2958-76-1
2	---	---	---	---	4176-04-9
3	---	---	---	---	4176-01-6
4	---	---	---	---	7764-50-3
5	---	---	---	---	13351-29-6
6	---	---	---	---	5948-04-9
7	---	---	---	---	15932-80-6
8	---	---	---	---	21964-48-7
9	---	---	---	---	29606-79-9

Library Search Data: 30068111 # 473 Base m/z: 41
 08/31/98 23:58:00 + 5:16 Cali: 30068111 # 3 RIC: 70016.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 459 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 39230 9-EICOSYNE
 2 34800 (R)-(-)-(Z)-14-METHYL-8-HEXADECEN-1-OL
 3 22482 2-TRIDECEN-1-OL, (E)-
 4 25971 OXIRANE, DODECYL-
 5 36677 7-OCTADECYNE, 2-METHYL-
 6 29222 (Z)6-PENTADECEN-1-OL
 7 34010 3-OCTADECYNE
 8 37449 OCTADECANAL
 9 28267 3-HEXADECYNE

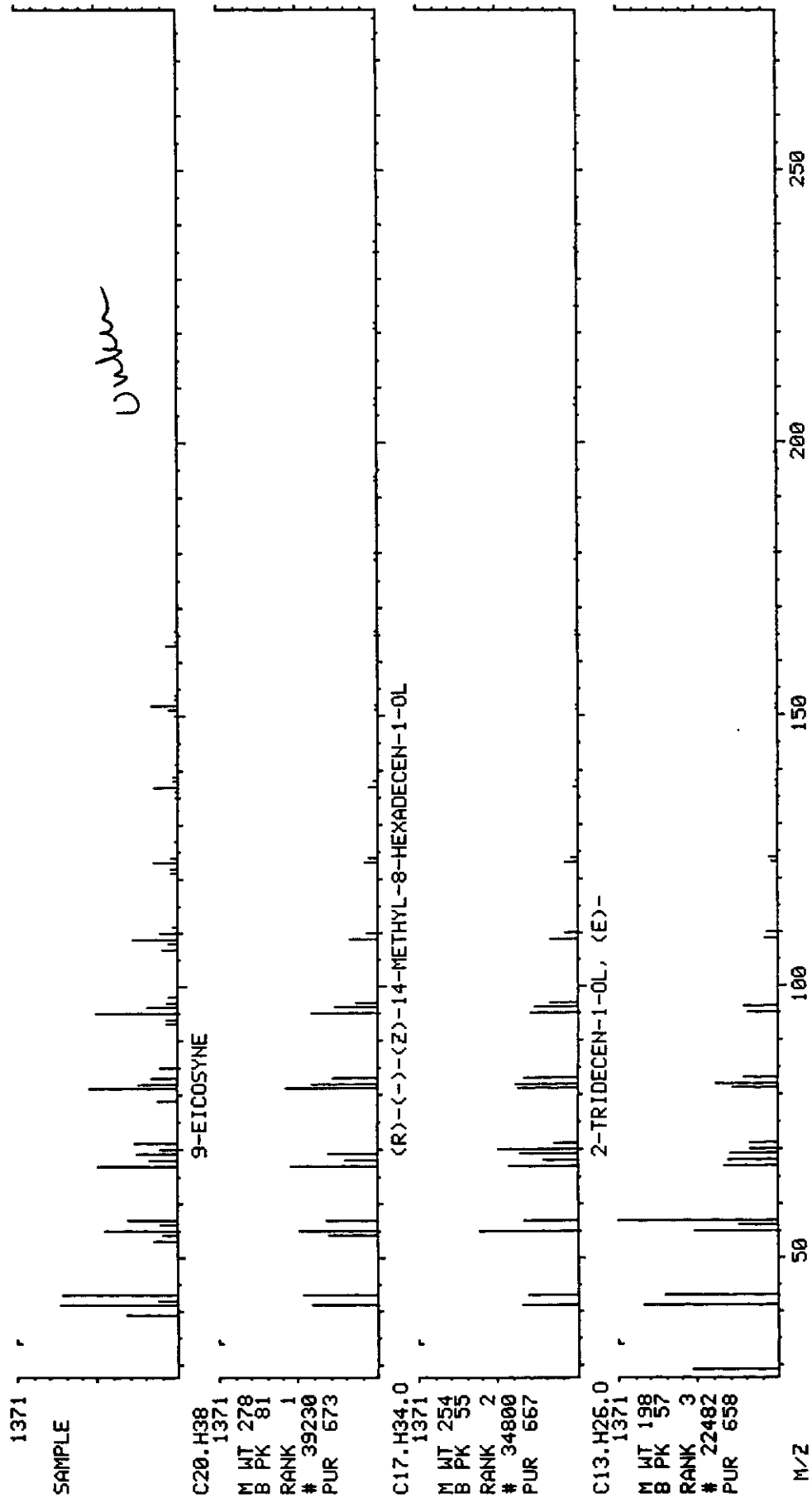
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H38	278	81	673	906	690
2	C17.H34.O	254	55	667	857	676
3	C13.H26.O	198	57	658	850	664
4	C14.H28.O	212	41	658	906	658
5	C19.H36	264	81	649	906	666
6	C15.H30.O	226	67	645	869	664
7	C18.H34	250	67	638	926	644
8	C18.H36.O	268	43	637	828	680
9	C16.H30	222	67	637	934	642

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	71899-38-2
2	—	—	—	—	30689-78-2
3	—	—	—	—	74962-98-4
4	—	—	—	—	3234-28-4
5	—	—	—	—	35354-38-2
6	—	—	—	—	68797-95-5
7	—	—	—	—	61886-64-4
8	—	—	—	—	638-66-4
9	—	—	—	—	61886-62-2

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 5:16
 SAMPLE: S-MMS-5 1/35A/100M
 COND.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068111 # 473
 CALI: 30068111 # 3

BASE M/Z: 41
 RIC: 70016.



Library Search Data: 30068111 # 557 Base m/z: 43
 08/31/98 23:58:00 + 6:12 Cali: 30068111 # 3 RIC: 75008.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 731 matched at least 7 of the 16 largest peaks in the unknown

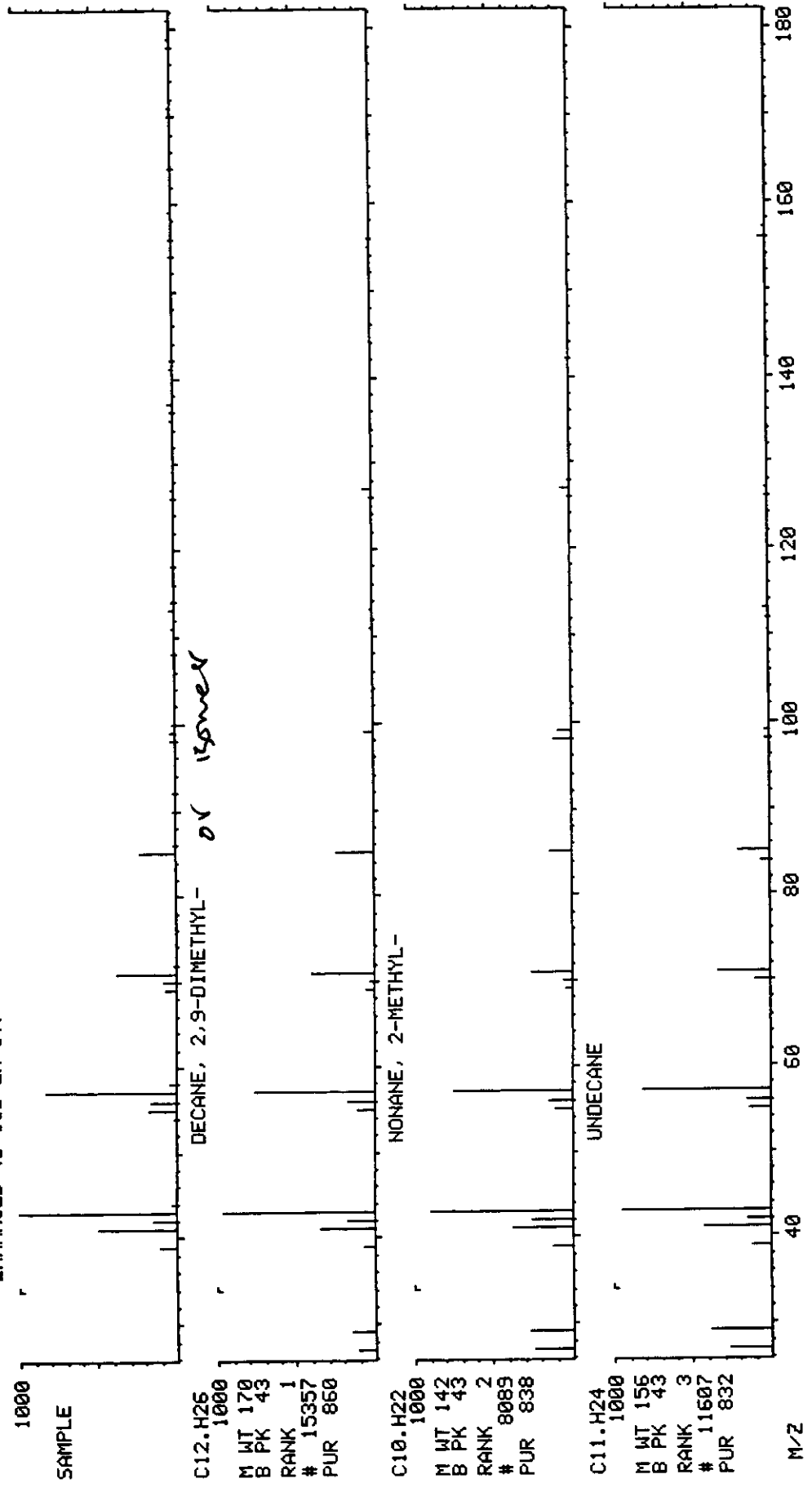
Rank In. Name
 1 15357 DECANE, 2,9-DIMETHYL-
 2 8089 NONANE, 2-METHYL-
 3 11607 UNDECANE
 4 19013 DECANE, 2,5,9-TRIMETHYL-
 5 15343 DODECANE
 6 8074 OCTANE, 2,7-DIMETHYL-
 7 11602 OCTANE, 2,4,6-TRIMETHYL-
 8 19006 DECANE, 6-ETHYL-2-METHYL-
 9 19035 DODECANE, 2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H26	170	43	860	958	870
2	C10.H22	142	43	838	941	842
3	C11.H24	156	43	832	941	860
4	C13.H28	184	57	830	916	840
5	C12.H26	170	57	829	923	868
6	C10.H22	142	43	828	917	828
7	C11.H24	156	57	825	944	844
8	C13.H28	184	57	824	930	847
9	C13.H28	184	43	819	932	848

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1002-17-1
2	—	—	—	—	871-83-0
3	—	—	—	—	1120-21-4
4	—	—	—	—	62108-22-9
5	—	—	—	—	112-40-3
6	—	—	—	—	1072-16-8
7	—	—	—	—	62016-37-9
8	—	—	—	—	62108-21-8
9	—	—	—	—	1560-97-0

DATA: 30068111 # 557
CALI: 30068111 # 3
BASE M/Z: 43
RIC: 75008.

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:58:00 + 6:12
SAMPLE: 5-MM5-5 1/35A/100M INST. ID: F16
CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
ENHANCED (S 15B 2N 0T)



Library Search Data: 30068111 # 570 Base m/z: 57
 08/31/98 23:58:00 + 6:20 Cali: 30068111 # 3 RIC: 75520.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 718 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 19054 UNDECANE, 2,6-DIMETHYL-
 2 19013 DECANE, 2,5,9-TRIMETHYL-
 3 8104 OCTANE, 3,5-DIMETHYL-
 4 19026 DECANE, 2,6,8-TRIMETHYL-
 5 8077 HEPTANE, 2,3,5-TRIMETHYL-
 6 19015 DECANE, 2,5,6-TRIMETHYL-
 7 8092 HEPTANE, 2,3,6-TRIMETHYL-
 8 19006 DECANE, 6-ETHYL-2-METHYL-
 9 5154 HEXANE, 4-ETHYL-2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	828	941	861
2	C13.H28	184	57	818	962	828
3	C10.H22	142	57	808	953	816
4	C13.H28	184	57	802	948	823
5	C10.H22	142	57	797	950	797
6	C13.H28	184	57	797	928	806
7	C10.H22	142	57	791	946	791
8	C13.H28	184	57	787	935	796
9	C9.H20	128	57	786	941	792

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	17301-23-4
2	---	---	---	---	62108-22-9
3	---	---	---	---	15869-93-9
4	---	---	---	---	62108-26-3
5	---	---	---	---	20278-85-7
6	---	---	---	---	62108-23-0
7	---	---	---	---	4032-93-3
8	---	---	---	---	62108-21-8
9	---	---	---	---	3074-75-7

BASE M/Z: 57
RIC: 75520.

DATA: 30068111 # 570
CALI: 30068111 # 3

MID LIBRARY SEARCH (LIBRARYNB)

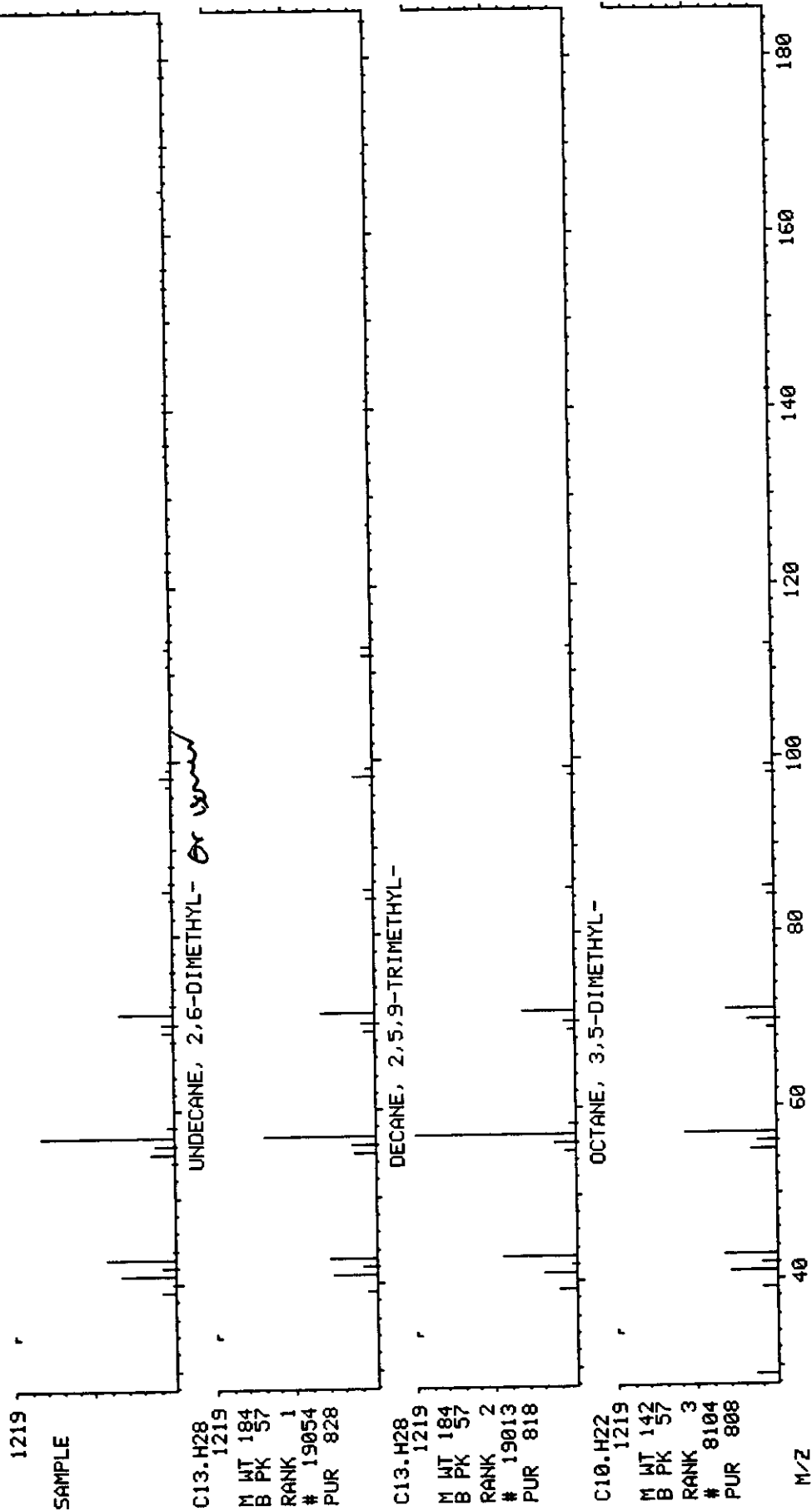
08/31/98 23:58:00 + 5:20

SAMPLE: S-MM5-5 1/35A/100M

COND.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M

ENHANCED (S 15B 2N 0T)

INST. ID: F15



Library Search Data: 30068111 # 600 Base m/z: 41
 08/31/98 23:58:00 + 6:40 Cali: 30068111 # 3 RIC: 53760.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 340 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 39230 9-EICOSYNE
 2 17938 1,12-TRIDECADIENE
 3 21421 1,13-TETRADECADIENE
 4 25960 CIS-9-TETRADECEN-1-OL
 5 44549 ETHANOL, 2-(9-OCTADECENYLOXY)-, (Z)-
 6 25963 CIS-11-TETRADECEN-1-OL
 7 22481 CYCLODODECANEMETHANOL
 8 29222 (Z)6-PENTADECEN-1-OL
 9 29229 CYCLOPENTADECANOL-

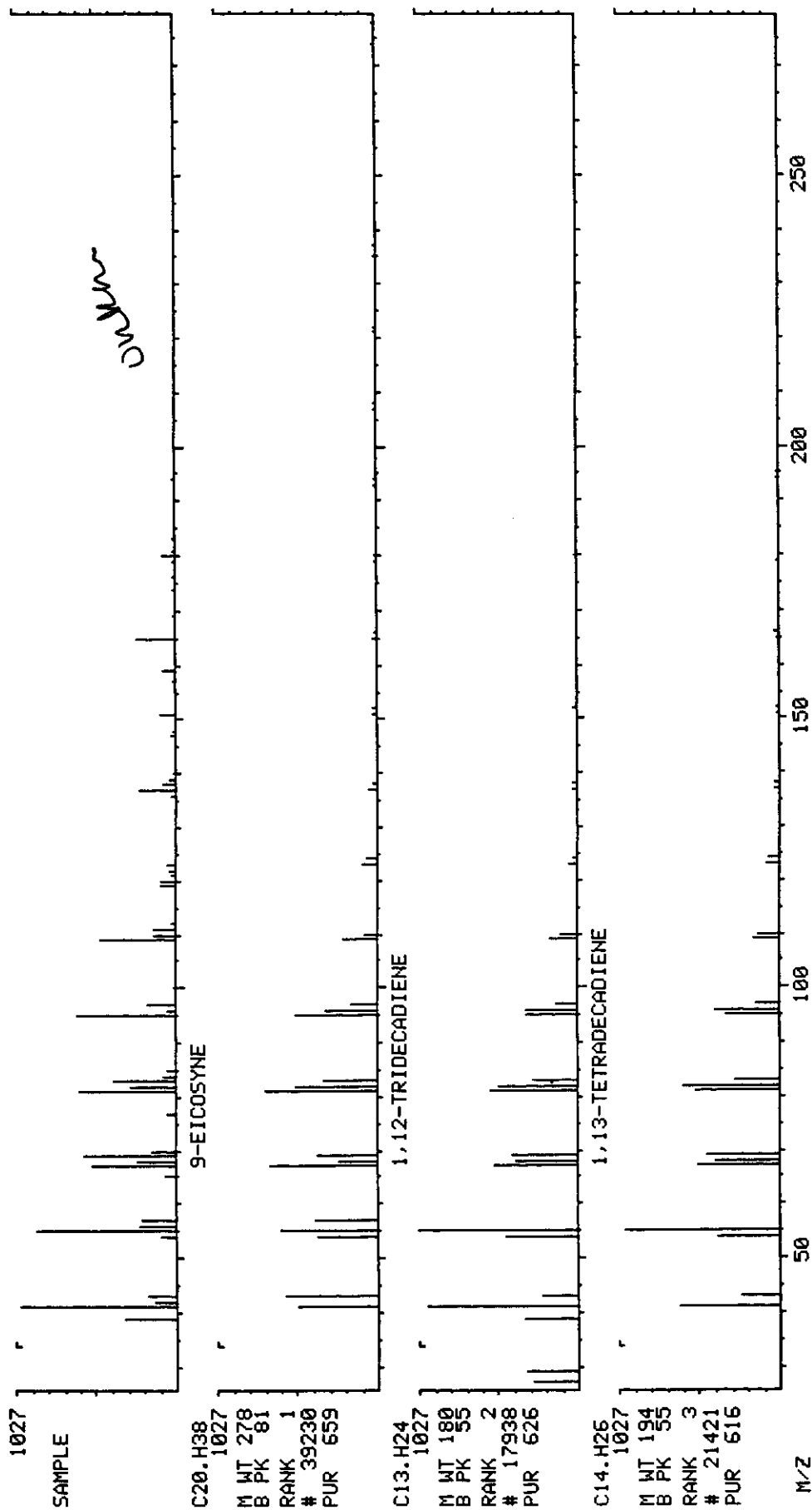
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H38	278	81	659	827	685
2	C13.H24	180	55	626	872	636
3	C14.H26	194	55	616	810	636
4	C14.H28.O	212	55	614	860	628
5	C20.H40.O2	312	55	612	758	683
6	C14.H28.O	212	41	609	805	630
7	C13.H26.O	198	55	606	771	635
8	C15.H30.O	226	67	606	824	636
9	C15.H30.O	226	55	606	776	658

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	71899-38-2
2	—	—	—	—	21964-48-7
3	—	—	—	—	21964-49-8
4	—	—	—	—	35153-15-2
5	—	—	—	—	5353-25-3
6	—	—	—	—	34010-15-6
7	—	—	—	—	1892-12-2
8	—	—	—	—	68797-95-5
9	—	—	—	—	4727-17-7

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 6:40
 SAMPLE: S-MM5-5 1/35A/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA) /1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068111 # 600
 CALI: 30068111 # 3

BASE M/Z: 41
 RIC: 53750.



Library Search Data: 30068111 # 618 Base m/z: 41
 08/31/98 23:58:00 + 6:52 Cali: 30068111 # 3 RIC: 54528.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

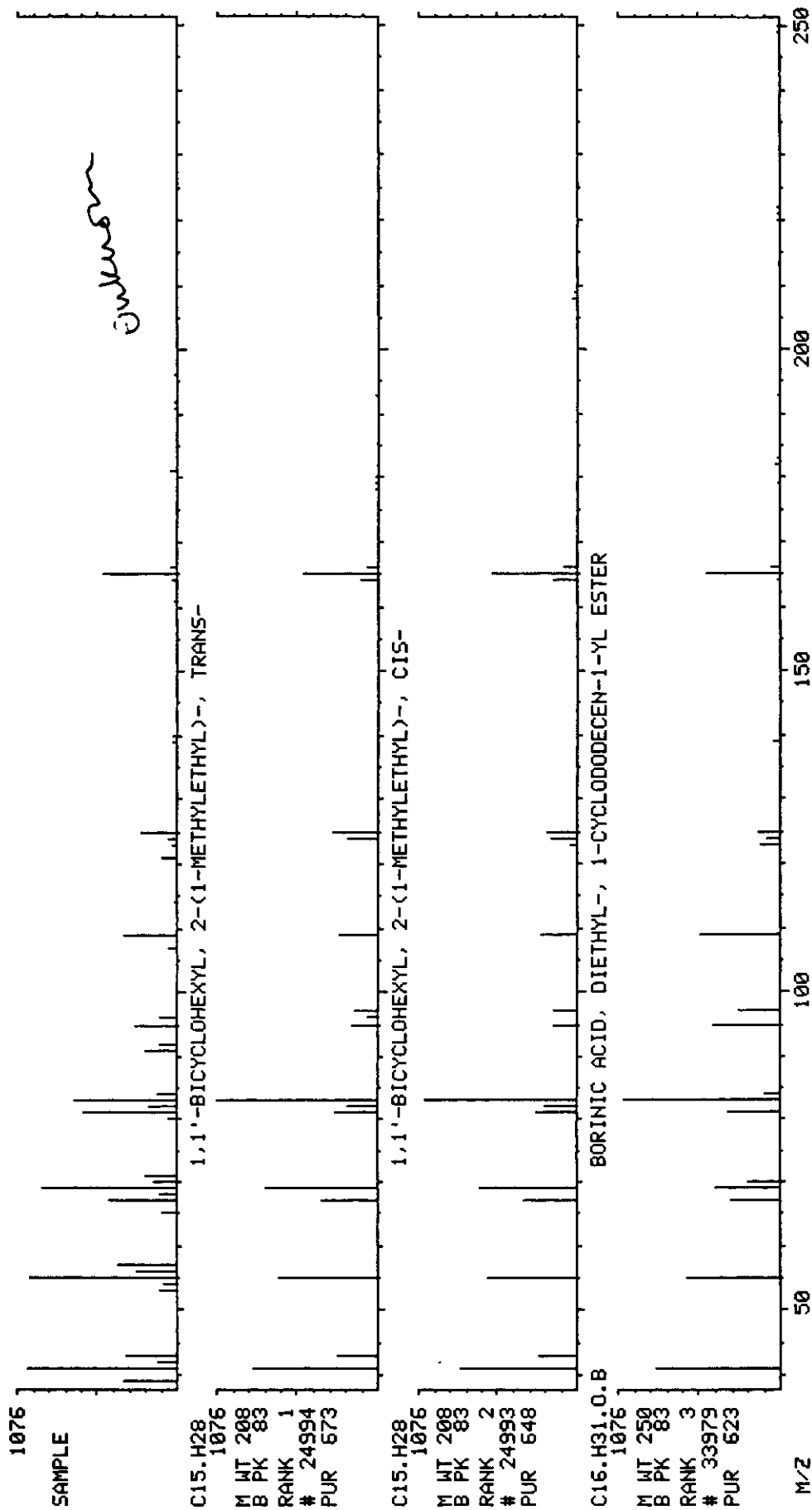
62231 spectra in LIBRARYNB searched for maximum PURITY
 375 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 24994 1,1'-BICYCLOHEXYL, 2-(1-METHYLETHYL)-, TRANS-
 2 24993 1,1'-BICYCLOHEXYL, 2-(1-METHYLETHYL)-, CIS-
 3 33979 BORINIC ACID, DIETHYL-, 1-CYCLODODECEN-1-YL ESTER
 4 24996 1,1'-BICYCLOHEXYL, 2-PROPYL-, CIS-
 5 24997 1,1'-BICYCLOHEXYL, 2-PROPYL-, TRANS-
 6 18965 11-DODECENOL
 7 22482 2-TRIDECEN-1-OL, (E)-
 8 18944 OXIRANE, DECYL-
 9 24990 MUUROLANE-B

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H28	208	83	673	923	693
2	C15.H28	208	83	648	900	676
3	C16.H31.O.B	250	83	623	875	675
4	C15.H28	208	69	576	786	609
5	C15.H28	208	41	568	774	595
6	C12.H24.O	184	55	558	879	558
7	C13.H26.O	198	57	553	823	581
8	C12.H24.O	184	41	547	841	570
9	C15.H28	208	109	546	812	582

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	50991-16-7
2	---	---	---	---	50991-15-6
3	---	---	---	---	61142-73-2
4	---	---	---	---	54934-88-2
5	---	---	---	---	54934-89-3
6	---	---	---	---	35289-31-7
7	---	---	---	---	74962-98-4
8	---	---	---	---	2855-19-8
9	---	---	---	---	- -

MID LIBRARY SEARCH <LIBRARYNB>
 08/31/98 23:58:00 + 6:52
 SAMPLE: S-MM5-5 1/35A/100M
 COND.: UG/ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068111 # 618
 CALI: 30068111 # 3
 BASE M/Z: 41
 RIC: 54528.



Library Search Data: 30068111 # 633 Base m/z: 57
 08/31/98 23:58:00 + 7:02 Cali: 30068111 # 3 RIC: 127872.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

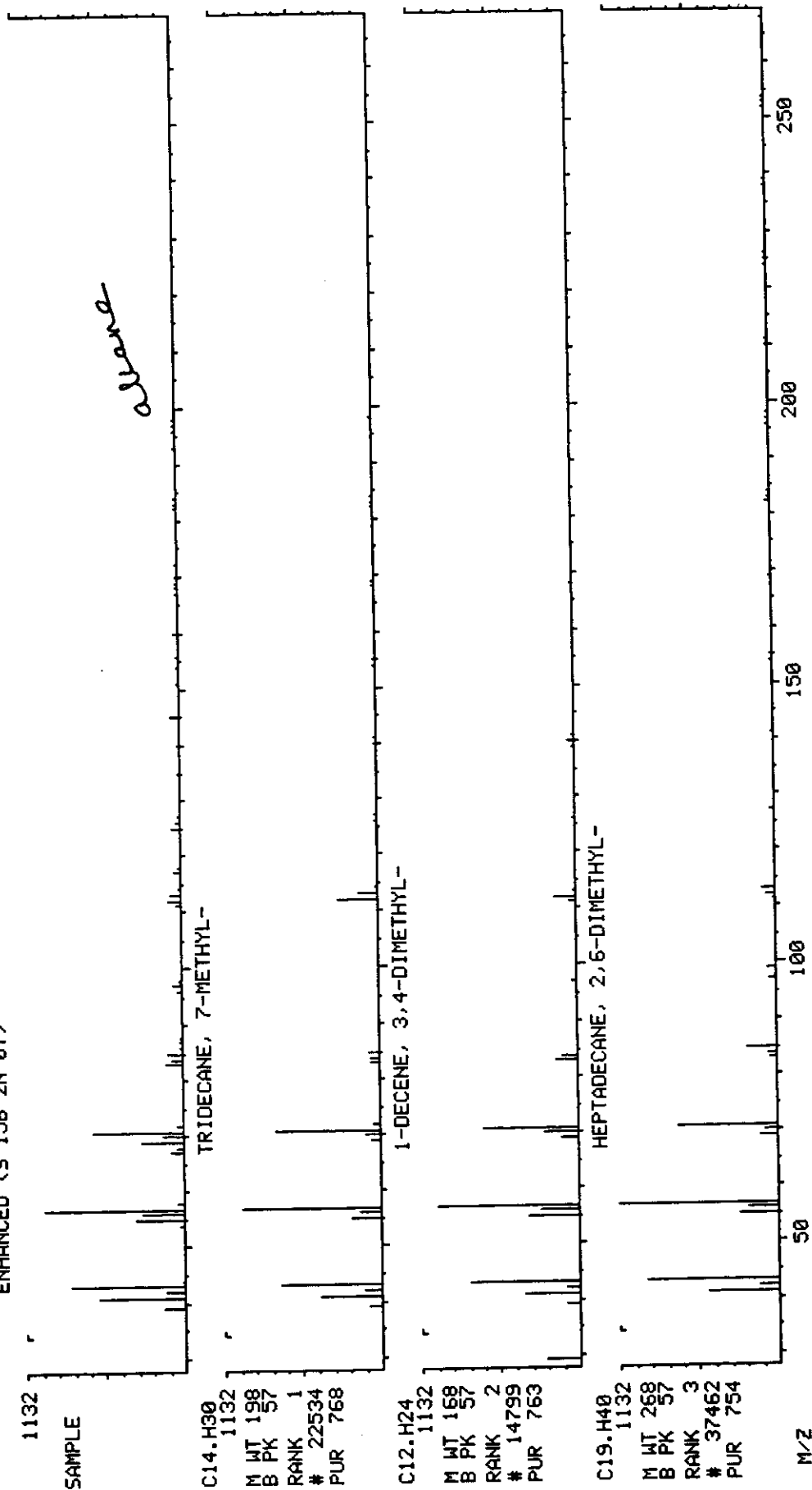
62231 spectra in LIBRARYNB searched for maximum PURITY
 781 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	22534	TRIDECANE, 7-METHYL-
2	14799	1-DECENE, 3,4-DIMETHYL-
3	37462	HEPTADECANE, 2,6-DIMETHYL-
4	19523	1-DECANOL, 2-ETHYL-
5	8539	1-PENTANOL, 4-METHYL-2-PROPYL-
6	14751	2-UNDECENE, 5-METHYL-
7	26408	2-ETHYL-1-DODECANOL
8	14793	1-UNDECENE, 4-METHYL-
9	8071	NONANE, 3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	Rfit
1	C14.H30	198	57	768	923	774
2	C12.H24	168	57	763	949	767
3	C19.H40	268	57	754	922	787
4	C12.H26.O	186	57	749	928	764
5	C9.H20.O	144	57	746	981	746
6	C12.H24	168	57	746	958	746
7	C14.H30.O	214	57	734	906	740
8	C12.H24	168	43	728	936	728
9	C10.H22	142	57	728	949	734

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	26730-14-3
2	---	---	---	---	50871-03-9
3	---	---	---	---	54105-67-8
4	---	---	---	---	21078-65-9
5	---	---	---	---	54004-41-0
6	---	---	---	---	56851-34-4
7	---	---	---	---	- -
8	---	---	---	---	74630-39-0
9	---	---	---	---	5911-04-6

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 7:02
 SAMPLE: S-MM5-5 1/35A/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA >1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 30068111 # 633
 CALI: 30068111 # 3
 BASE M/Z: 57
 RIC: 127872.



Library Search Data: 30068111 # 655 Base m/z: 41
 08/31/98 23:58:00 + 7:17 Cali: 30068111 # 3 RIC: 70912.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

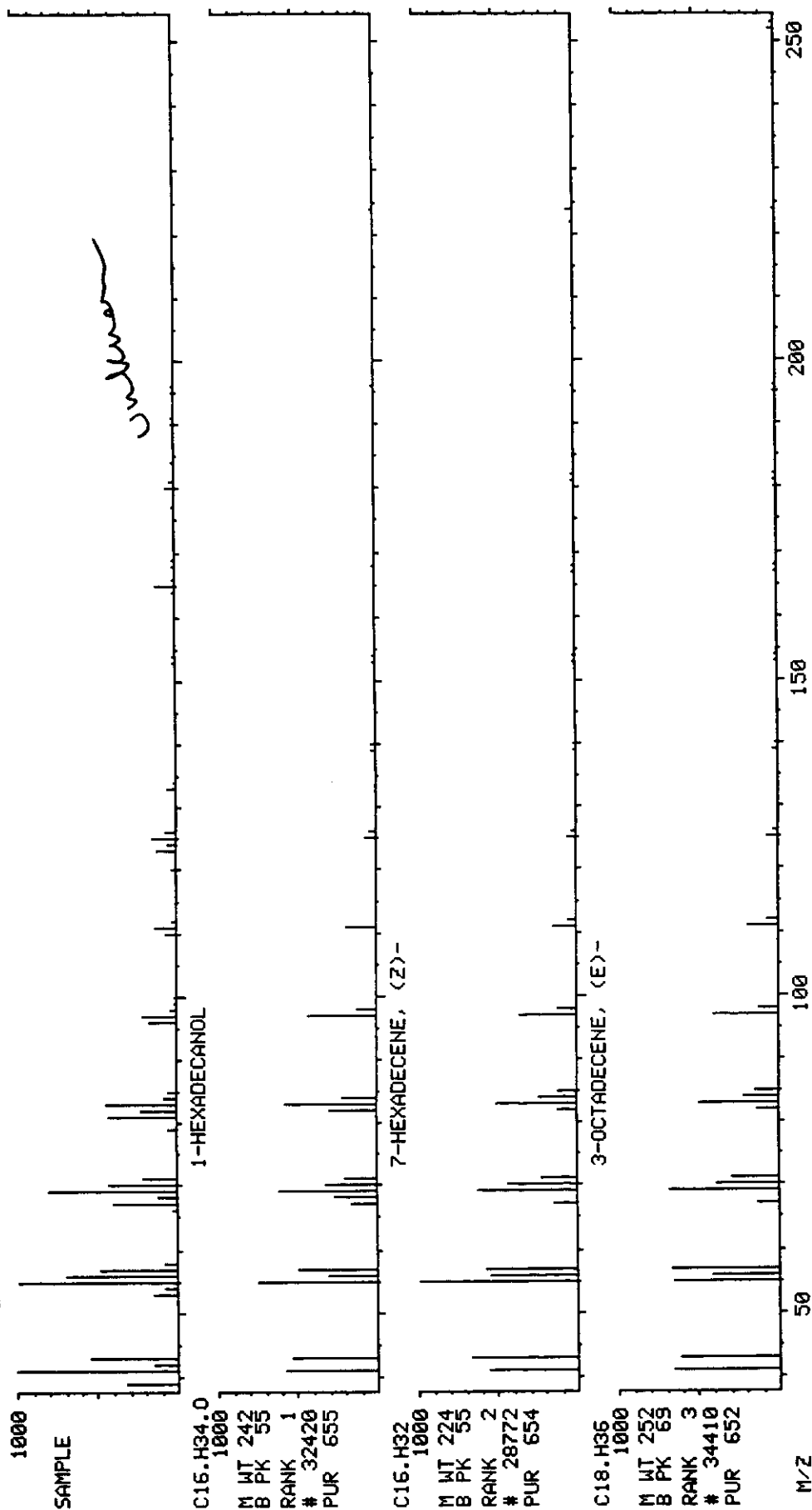
62231 spectra in LIBRARYNB searched for maximum PURITY
 744 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 32420 1-HEXADECANOL
 2 28772 7-HEXADECENE, (Z)-
 3 34410 3-OCTADECENE, (E)-
 4 21960 CYCLOTETRADECANE
 5 34411 5-OCTADECENE, (E)-
 6 40233 NONADECANOL
 7 28768 3-HEXADECENE, (Z)-
 8 7515 2-NONENAL, (E)-
 9 14780 CYCLODODECANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H34.O	242	55	655	923	667
2	C16.H32	224	55	654	911	675
3	C18.H36	252	69	652	891	674
4	C14.H28	196	55	652	911	671
5	C18.H36	252	55	652	908	673
6	C19.H40.O	284	43	650	881	682
7	C16.H32	224	55	650	917	673
8	C9.H16.O	140	41	649	927	649
9	C12.H24	168	55	649	933	662

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	36653-82-4
2	—	—	—	—	35507-09-6
3	—	—	—	—	7206-19-1
4	—	—	—	—	295-17-0
5	—	—	—	—	7206-21-5
6	—	—	—	—	52783-43-4
7	—	—	—	—	34303-81-6
8	—	—	—	—	18829-56-6
9	—	—	—	—	294-62-2

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 7:17
 SAMPLE: S-MM5-5 1/35A/100M
 CONDS.: UC/ML *100ML *100Z/100Z *(NA/NA >1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30058111 # 655
 CALI: 30058111 # 3
 BASE M/Z: 41
 RIC: 70912.



Library Search Data: 30068111 # 663 Base m/z: 57
 08/31/98 23:58:00 + 7:22 Cali: 30068111 # 3 RIC: 107264.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 560 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 11607 UNDECANE
 2 19013 DECANE, 2,5,9-TRIMETHYL-
 3 19026 DECANE, 2,6,8-TRIMETHYL-
 4 15357 DECANE, 2,9-DIMETHYL-
 5 11602 OCTANE, 2,4,6-TRIMETHYL-
 6 8104 OCTANE, 3,5-DIMETHYL-
 7 8089 NONANE, 2-METHYL-
 8 5159 NONANE
 9 8074 OCTANE, 2,7-DIMETHYL-

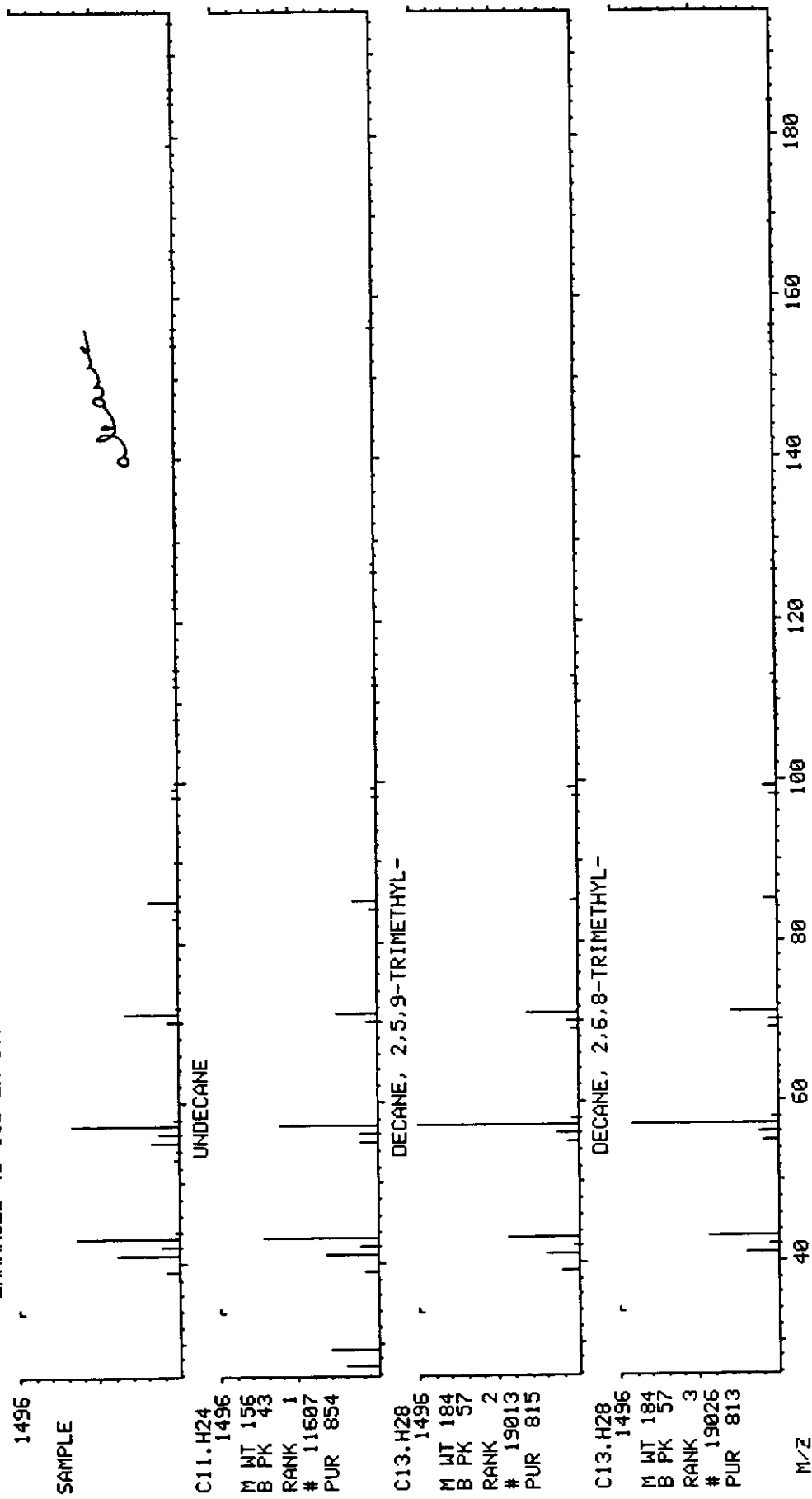
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24	156	43	854	959	859
2	C13.H28	184	57	815	914	829
3	C13.H28	184	57	813	911	839
4	C12.H26	170	43	811	932	841
5	C11.H24	156	57	801	933	822
6	C10.H22	142	57	798	902	826
7	C10.H22	142	43	797	913	827
8	C9.H20	128	43	795	914	834
9	C10.H22	142	43	794	901	807

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1120-21-4
2	—	—	—	—	62108-22-9
3	—	—	—	—	62108-26-3
4	—	—	—	—	1002-17-1
5	—	—	—	—	62016-37-9
6	—	—	—	—	15869-93-9
7	—	—	—	—	871-83-0
8	—	—	—	—	111-84-2
9	—	—	—	—	1072-16-8

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 7:22
 SAMPLE: S-MMS-5 1/35A/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068111 # 663
 CALI: 30068111 # 3

BASE M/Z: 57
 RIC: 107264.



Library Search Data: 30068111 # 679 Base m/z: 57
 08/31/98 23:58:00 + 7:33 Cali: 30068111 # 3 RIC: 62656.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 324 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 5159 NONANE
 2 37251 1-1000-2-METHYLNONANE
 3 40866 OCTADECANE, 1-CHLORO-
 4 5151 HEPTANE, 3,4-DIMETHYL-
 5 19826 OCTANETHIOIC ACID, S-ETHYL ESTER
 6 30843 4,4,6-TRIMETHYL-6-PHENYLTETRAHYDRO-1,3-OXAZINE-2-THIONE
 7 11607 UNDECANE
 8 35931 HEXADECANE, 1-CHLORO-
 9 5154 HEXANE, 4-ETHYL-2-METHYL-

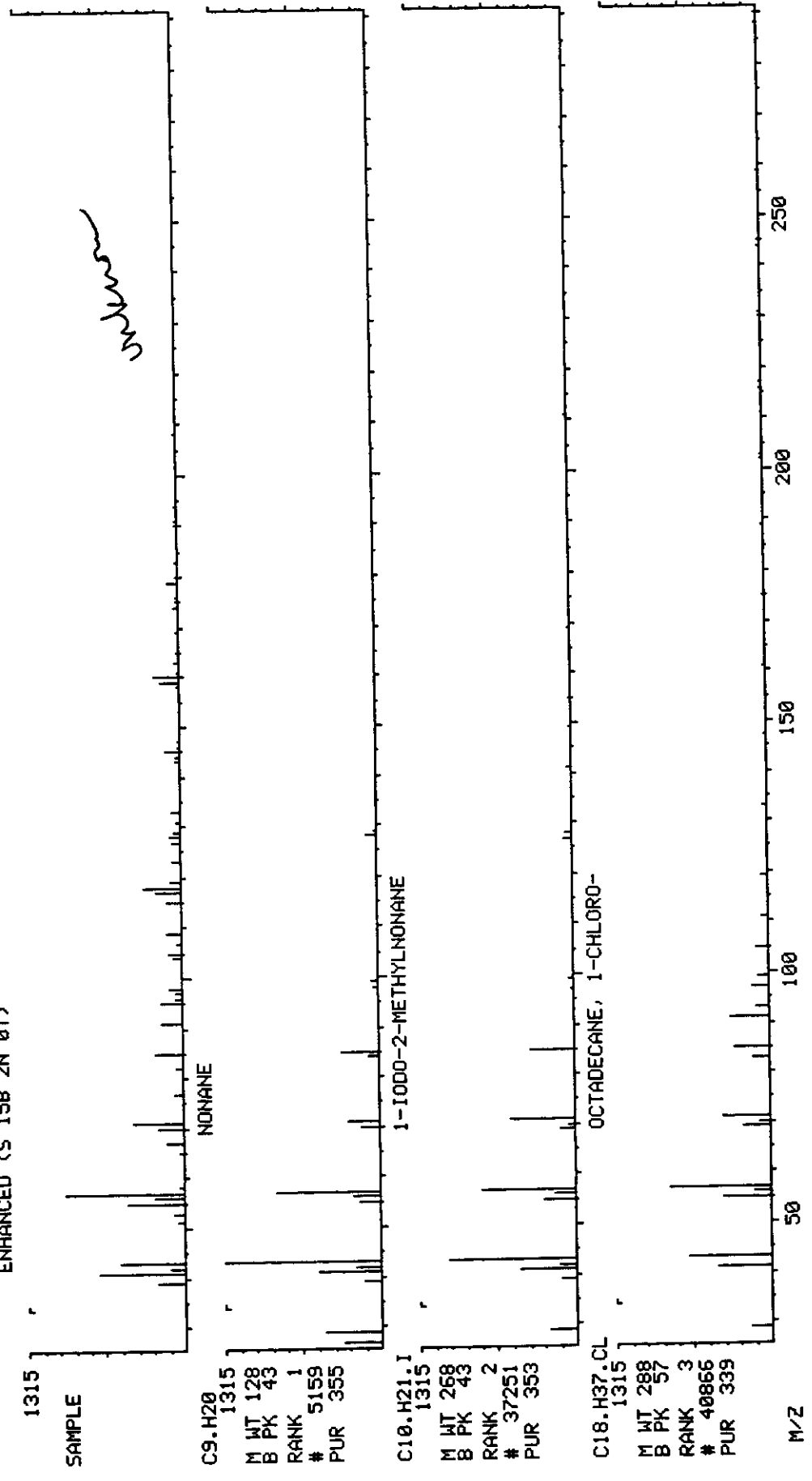
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H20	128	43	355	874	375
2	C10.H21.I	268	43	353	871	381
3	C18.H37.CL	288	57	339	782	416
4	C9.H20	128	43	334	836	349
5	C10.H20.O.S	188	57	334	744	345
6	C13.H17.O.N.S	235	118	334	676	441
7	C11.H24	156	43	333	852	367
8	C16.H33.CL	260	57	333	774	414
9	C9.H20	128	57	332	831	364

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	111-84-2
2	---	---	---	---	- -
3	---	---	---	---	3386-33-2
4	---	---	---	---	922-28-1
5	---	---	---	---	2432-84-0
6	---	---	---	---	- -
7	---	---	---	---	1120-21-4
8	---	---	---	---	4860-03-1
9	---	---	---	---	3074-75-7

DATA: 30068111 # 679
 CALI: 30068111 # 3
 BASE M/Z: 57
 RIC: 62656.

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 7:33
 SAMPLE: 5-MM5-5 1/35A/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA) /1/35A NA M
 ENHANCED (S 15B 2N 0T)

INST. ID: F16



Library Search Data: 30068111 # 701 Base m/z: 41
 08/31/98 23:58:00 + 7:48 Cali: 30068111 # 3 RIC: 54272.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYN8 searched for maximum PURITY
 976 matched at least 5 of the 16 largest peaks in the unknown

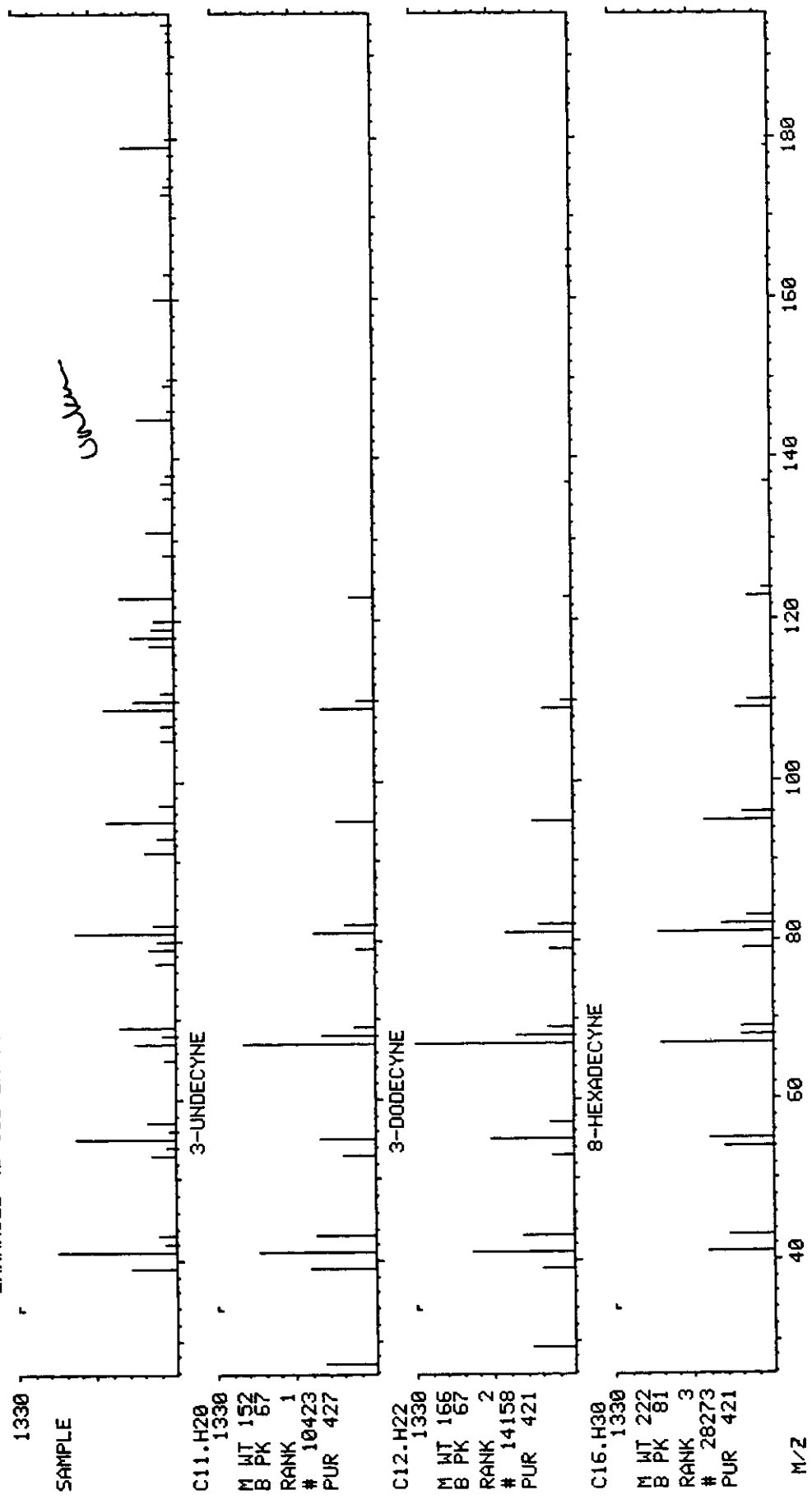
Rank In. Name
 1 10423 3-UNDECYNE
 2 14158 3-DODECYNE
 3 28273 8-HEXADECYNE
 4 6996 1-ETHYNYL-1-CYCLOHEPTANOL
 5 7028 1,3-HEXADIENE, 3-ETHYL-2,5-DIMETHYL-
 6 28267 3-HEXADECYNE
 7 10438 1,4-UNDECADIENE, (Z)-
 8 10408 THUJONE
 9 18371 5,7-DIMETHYLOCTAHYDROCOUMARIN

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H20	152	67	427	887	427
2	C12.H22	166	67	421	831	422
3	C16.H30	222	81	421	764	467
4	C9.H14.O	138	81	417	836	438
5	C10.H18	138	67	414	859	414
6	C16.H30	222	67	408	713	437
7	C11.H20	152	67	407	889	431
8	C10.H16.O	152	81	404	896	416
9	C11.H18.O2	182	95	397	827	432

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	60212-30-8
2	—	—	—	—	6790-27-8
3	—	—	—	—	19781-86-3
4	—	—	—	—	2809-78-1
5	—	—	—	—	62338-07-2
6	—	—	—	—	61886-62-2
7	—	—	—	—	55976-14-2
8	—	—	—	—	546-80-5
9	—	—	—	—	—

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 7:48
 SAMPLE: S-MMS-5 1/35A/100M
 COND.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068111 # 701
 CALI: 30068111 # 3
 BASE M/Z: 41
 RIC: 54272.



Library Search Data: 30068111 # 715 Base m/z: 41
 08/31/98 23:58:00 + 7:57 Cali: 30068111 # 3 RIC: 58944.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 309 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 32052 OXIRANE, TETRADECYL-
 2 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 3 31486 ACETAMIDE, N-METHYL-N-[4-[4-METHOXY-1-HEXAHYDROPYRIDYL]-2-BUTYNYL]-
 4 21927 TRANS-2-TRIDECENAL
 5 50599 PENTALENE, OCTAHYDRO-1-(2-OCTYLDECYL)-
 6 46251 DODECANE, 1,2-DIBROMO-
 7 56499 9-OCTADECENOIC ACID (Z)-, 2-(ACETYLOXY)-1-[(ACETYLOXY)METHYL]ETHYL *
 8 37035 9-OCTADECENAL, (Z)-
 9 18445 2-DODECENAL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H32.O	240	41	453	904	468
2	C18.H36.O2	284	55	438	896	466
3	C13.H22.O2.N2	238	43	436	817	497
4	C13.H24.O	196	41	433	863	455
5	C26.H50	362	43	428	833	487
6	C12.H24.BR2	326	41	414	790	490
7	C25.H44.O6	440	43	414	709	515
8	C18.H34.O	266	55	407	848	467
9	C12.H22.O	182	70	403	874	425

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7320-37-8
2	—	—	—	—	13980-12-6
3	—	—	—	—	- -
4	—	—	—	—	- -
5	—	—	—	—	55401-65-5
6	—	—	—	—	55334-42-4
7	—	—	—	—	55401-63-3
8	—	—	—	—	2423-10-1
9	—	—	—	—	4826-62-4

DATA: 30068111 # 715
CALI: 30068111 # 3
BASE M/Z: 41
RIC: 58944.

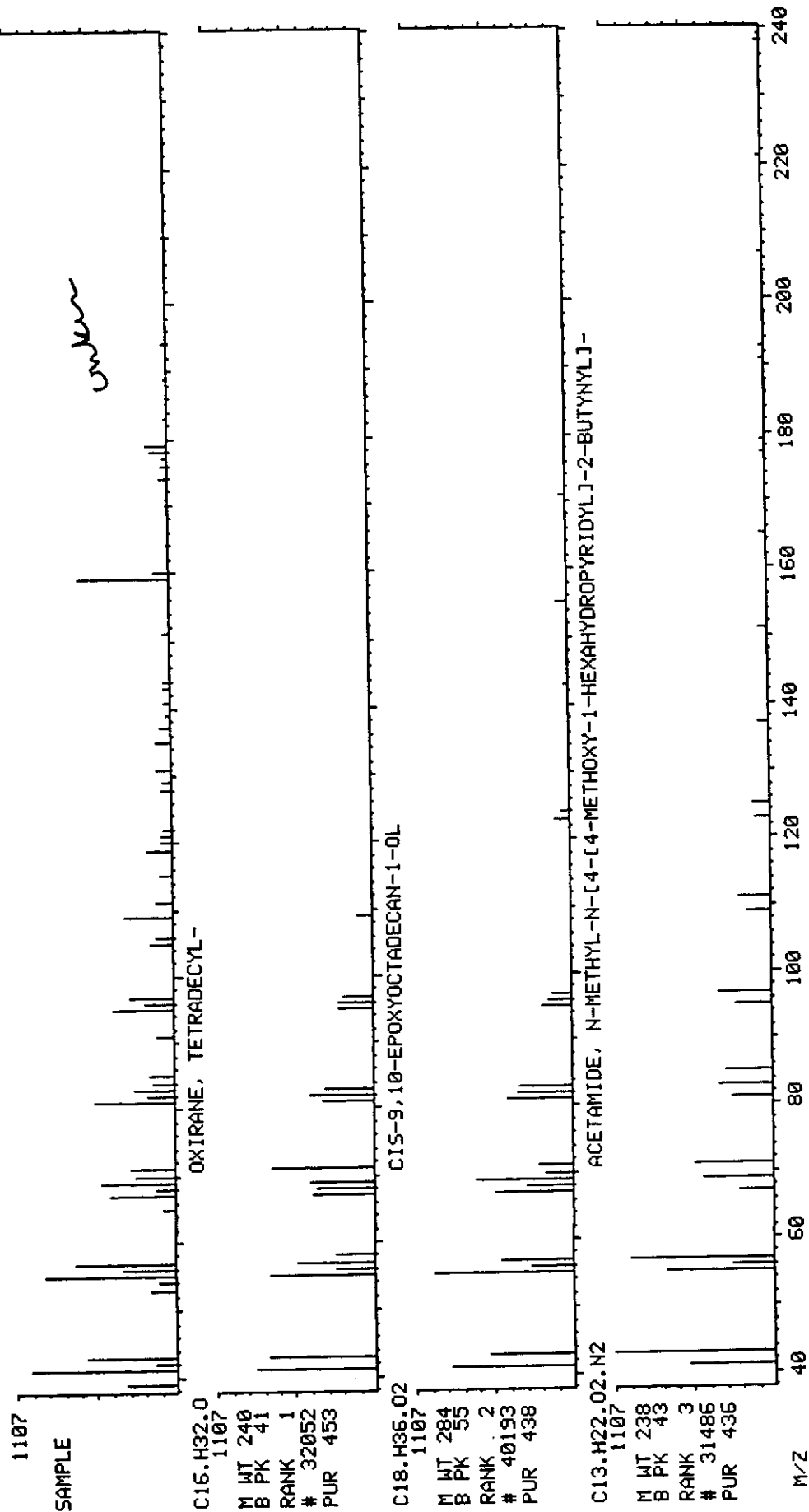
MID LIBRARY SEARCH <LIBRARYNB>

08/31/98 23:58:00 + 7:57

SAMPLE: S-MM5-5 1/35A/100M

COND.: UG/ML *100ML *100Z/100Z *(NA/NA) /1/35A NA M
ENHANCED (S 15B 2N 0T)

INST. ID: F16



Library Search Data: 30068111 # 739 Base m/z: 57
 08/31/98 23:58:00 + 8:13 Cali: 30068111 # 3 RIC: 131072.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 748 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 25991 DODECANE, 2,6,10-TRIMETHYL-
 2 37462 HEPTADECANE, 2,6-DIMETHYL-
 3 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 4 22535 DODECANE, 4,6-DIMETHYL-
 5 26001 DODECANE, 2,7,10-TRIMETHYL-
 6 25997 PENTADECANE
 7 19026 DECANE, 2,6,8-TRIMETHYL-
 8 25994 DODECANE, 2,6,11-TRIMETHYL-
 9 18998 UNDECANE, 3,7-DIMETHYL-

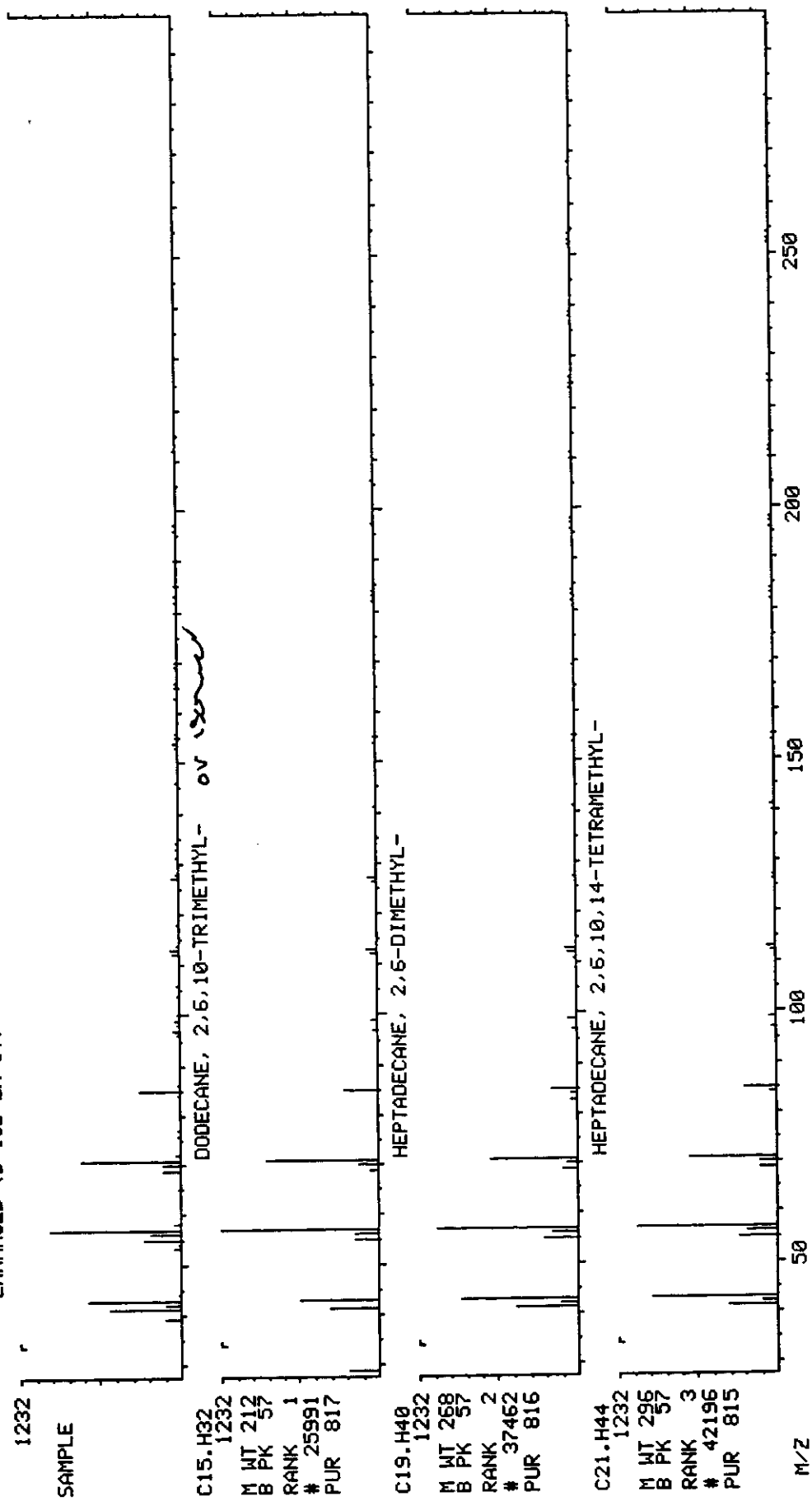
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H32	212	57	817	956	834
2	C19.H40	268	57	816	931	852
3	C21.H44	296	57	815	927	858
4	C14.H30	198	57	803	940	815
5	C15.H32	212	57	794	960	815
6	C15.H32	212	57	789	918	825
7	C13.H28	184	57	787	919	795
8	C15.H32	212	57	782	944	808
9	C13.H28	184	43	781	919	790

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3891-98-3
2	—	—	—	—	54105-67-8
3	—	—	—	—	18344-37-1
4	—	—	—	—	61141-72-8
5	—	—	—	—	74645-98-0
6	—	—	—	—	629-62-9
7	—	—	—	—	62108-26-3
8	—	—	—	—	31295-56-4
9	—	—	—	—	17301-29-0

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 8:13
 SAMPLE: S-MM5-5 1/3SA/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA) /1/3SA NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068111 # 739
 CALI: 30068111 # 3

BASE M/Z: 57
 RIC: 131072.



Library Search Data: 30068111 # 764 Base m/z: 43
 08/31/98 23:58:00 + 8:30 Cali: 30068111 # 3 RIC: 187392.
 Sample: S-MMS-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 634 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 22530 TETRADECANE
 2 19006 DECANE, 6-ETHYL-2-METHYL-
 3 11612 NONANE, 2,5-DIMETHYL-
 4 11607 UNDECANE
 5 19007 DODECANE, 3-METHYL-
 6 15358 UNDECANE, 3-METHYL-
 7 22532 TRIDECANE, 2-METHYL-
 8 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 9 39681 1-iodoundecane

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30	198	43	710	950	715
2	C13.H28	184	57	708	954	708
3	C11.H24	156	57	687	865	687
4	C11.H24	156	43	684	970	684
5	C13.H28	184	57	684	896	686
6	C12.H26	170	57	682	911	682
7	C14.H30	198	57	676	878	679
8	C21.H44	296	57	676	921	696
9	C11.H23.I	282	57	675	864	682

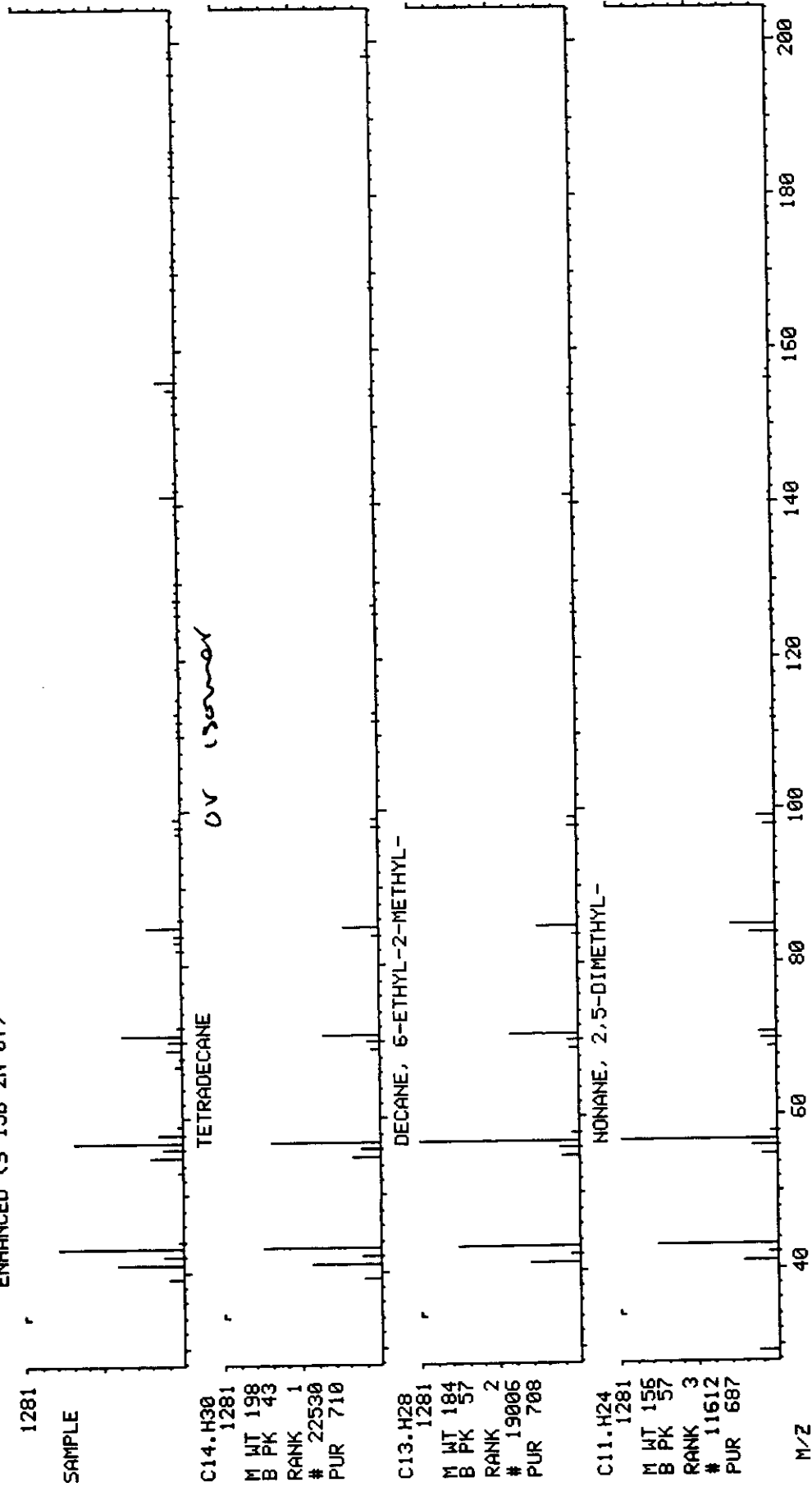
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-59-4
2	—	—	—	—	62108-21-8
3	—	—	—	—	17302-27-1
4	—	—	—	—	1120-21-4
5	—	—	—	—	17312-57-1
6	—	—	—	—	1002-43-3
7	—	—	—	—	1560-96-9
8	—	—	—	—	18344-37-1
9	—	—	—	—	4282-44-4

BASE M/Z: 43
RIC: 187392.

DATA: 30058111 # 764
CALL: 30058111 # 3

MID LIBRARY SEARCH <LIBRARYNB>
08/31/98 23:58:00 + 8:30

06/31/38 11:00:00 INST. ID: F16
SAMPLE: S-MM5-5 1/35A/100M
CONDS.: UG/ML *100Z/100Z *(NA/NA)/1/35A NA M
ENHANCED (5 15B 2N 0T)



Library Search Data: 30068111 # 778 Base m/z: 41
 08/31/98 23:58:00 + 8:39 Cali: 30068111 # 3 RIC: 59520.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

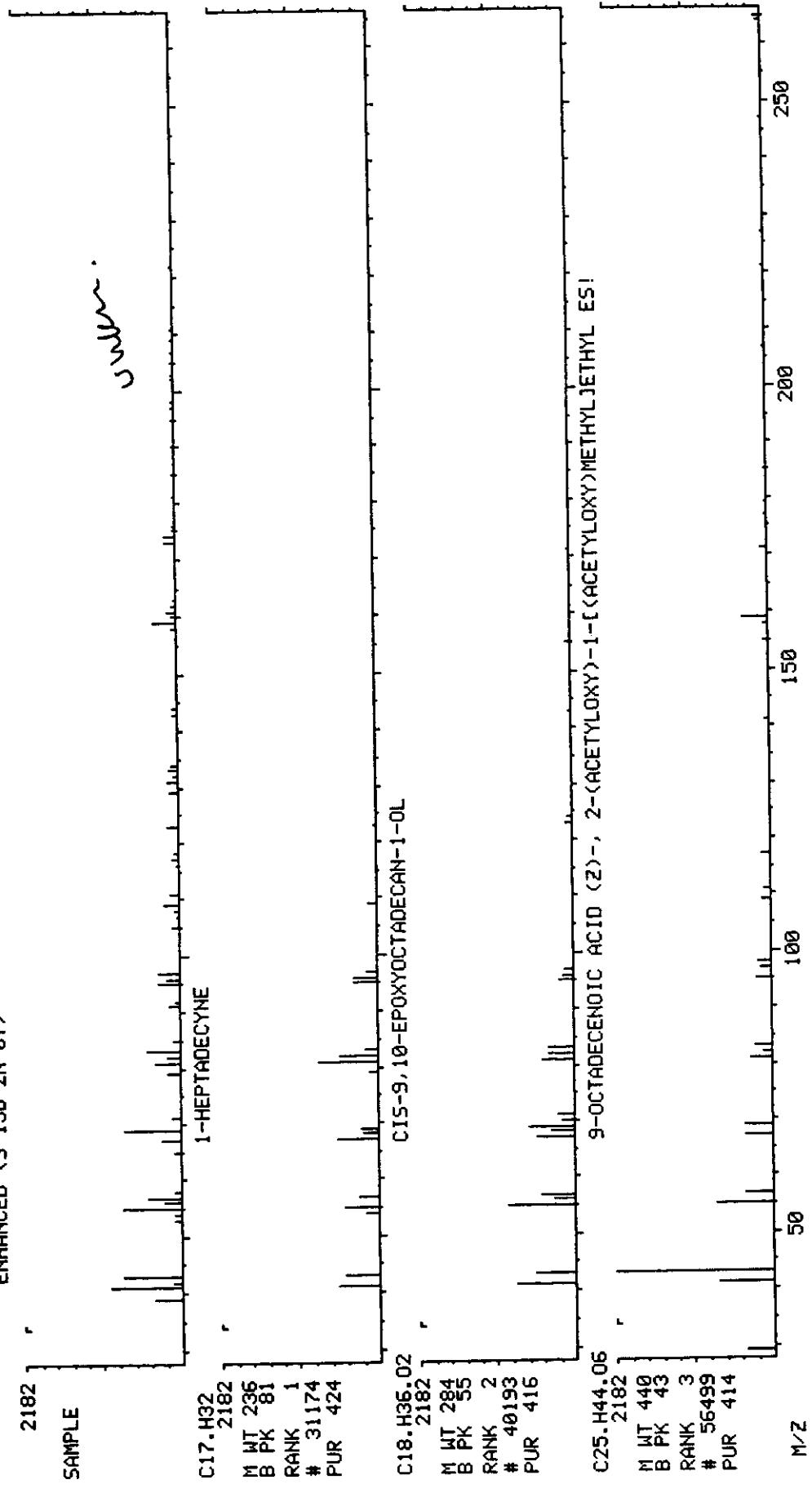
62231 spectra in LIBRARYNB searched for maximum PURITY
 618 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 31174 1-HEPTADECYNE
 2 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 3 56499 9-OCTADECENOIC ACID (Z)-, 2-(ACETYLOXY)-1-[(ACETYLOXY)METHYL]ETHYL *
 4 37444 OXIRANE, HEXADECYL-
 5 34009 1-OCTADECYNE
 6 31486 ACETAMIDE, N-METHYL-N-[4-[4-METHOXY-1-HEXAHYDROPIRIDYL]-2-BUTYNYL]-
 7 22481 CYCLODOECANEMETHANOL
 8 28275 1-HEXADECYNE
 9 25010 1-PENTADECYNE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H32	236	81	424	837	439
2	C18.H36.O2	284	55	416	839	476
3	C25.H44.O6	440	43	414	744	520
4	C18.H36.O	268	57	412	783	479
5	C18.H34	250	81	410	837	435
6	C13.H22.O2.N2	238	43	405	798	472
7	C13.H26.O	198	55	404	808	463
8	C16.H30	222	81	404	830	420
9	C15.H28	208	81	402	825	418

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	26186-00-5
2	—	—	—	—	13980-12-6
3	—	—	—	—	55401-63-3
4	—	—	—	—	7390-81-0
5	—	—	—	—	629-89-0
6	—	—	—	—	- -
7	—	—	—	—	1892-12-2
8	—	—	—	—	629-74-3
9	—	—	—	—	765-13-9

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 8:39
 SAMPLE: S-MMS-5 1/35A/100M
 CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 30068111 # 778
 CALI: 30068111 # 3
 BASE M/Z: 41
 RIC: 59520.



H
 S
 C

Library Search Data: 30068111 # 809 Base m/z: 41
 08/31/98 23:58:00 + 9:00 Cali: 30068111 # 3 RIC: 56000.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 345 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 2 25971 OXIRANE, DODECYL-
 3 37444 OXIRANE, HEXADECYL-
 4 37449 OCTADECANAL
 5 22482 2-TRIDECEN-1-OL, (E)-
 6 39230 9-EICOSYNE
 7 31486 ACETAMIDE, N-METHYL-N-[4-[4-METHOXY-1-HEXAHYDROPYRIDYL]-2-BUTYNYL]-
 8 11590 6-OCTEN-1-OL, 3,7-DIMETHYL-
 9 44549 ETHANOL, 2-(9-OCTADECENYLOXY)-, (Z)-

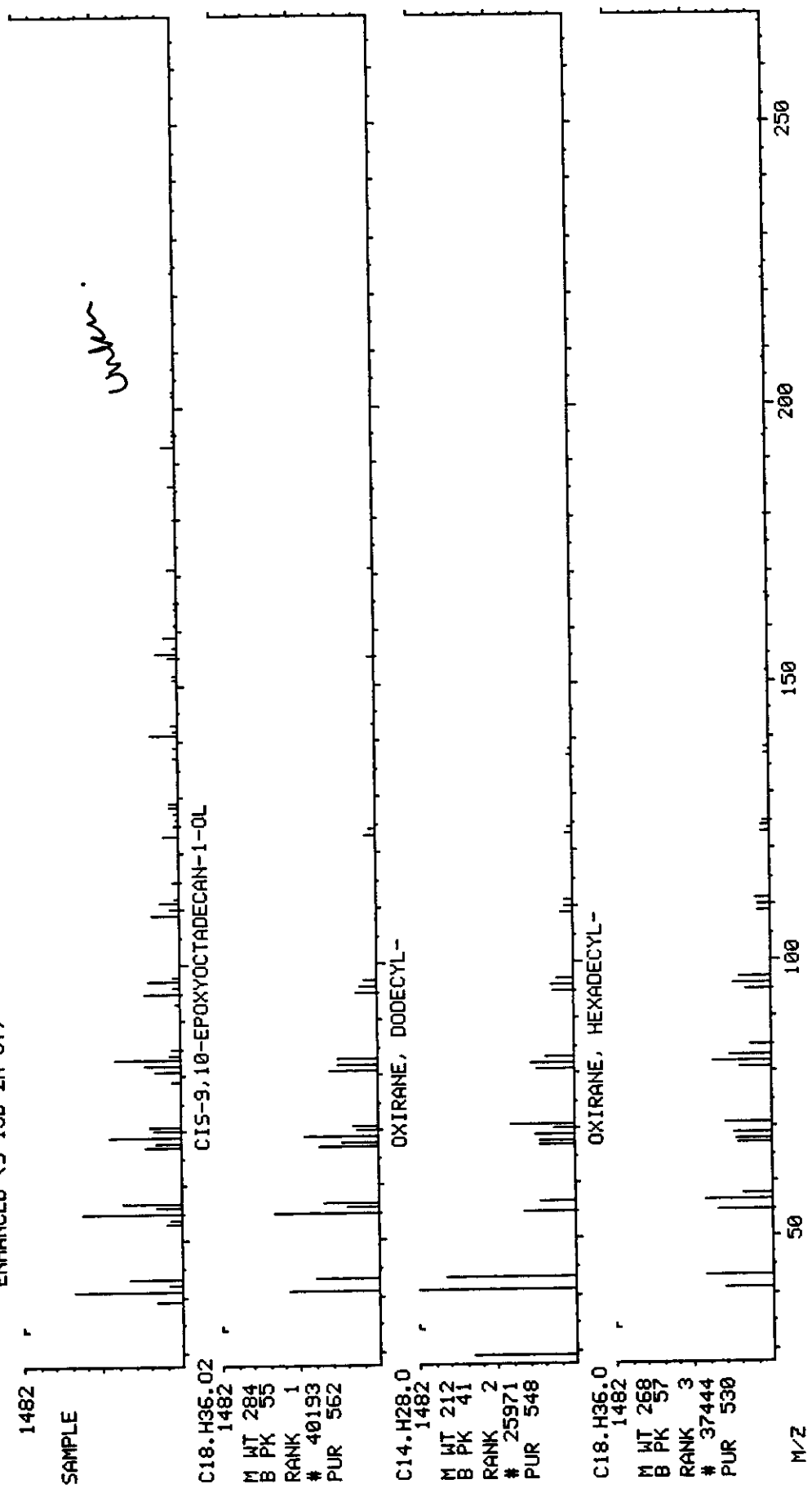
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H36.O2	284	55	562	949	571
2	C14.H28.O	212	41	548	898	560
3	C18.H36.O	268	57	530	861	573
4	C18.H36.O	268	43	526	850	565
5	C13.H26.O	198	57	524	891	537
6	C20.H38	278	81	513	856	533
7	C13.H22.O2.N2	238	43	509	865	542
8	C10.H20.O	156	41	507	897	515
9	C20.H40.O2	312	55	503	806	562

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	13980-12-6
2	---	---	---	---	3234-28-4
3	---	---	---	---	7390-81-0
4	---	---	---	---	638-66-4
5	---	---	---	---	74962-98-4
6	---	---	---	---	71899-38-2
7	---	---	---	---	- -
8	---	---	---	---	106-22-9
9	---	---	---	---	5353-25-3

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 9:00
 SAMPLE: S-MM5-5 1/35A/100M
 CONDOS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 30068111 # 809
 CALI: 30068111 # 3

BASE M/Z: 41
 RIC: 56000.



Library Search Data: 30068111 # 821 Base m/z: 43
 08/31/98 23:58:00 + 9:08 Cali: 30068111 # 3 RIC: 133632.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

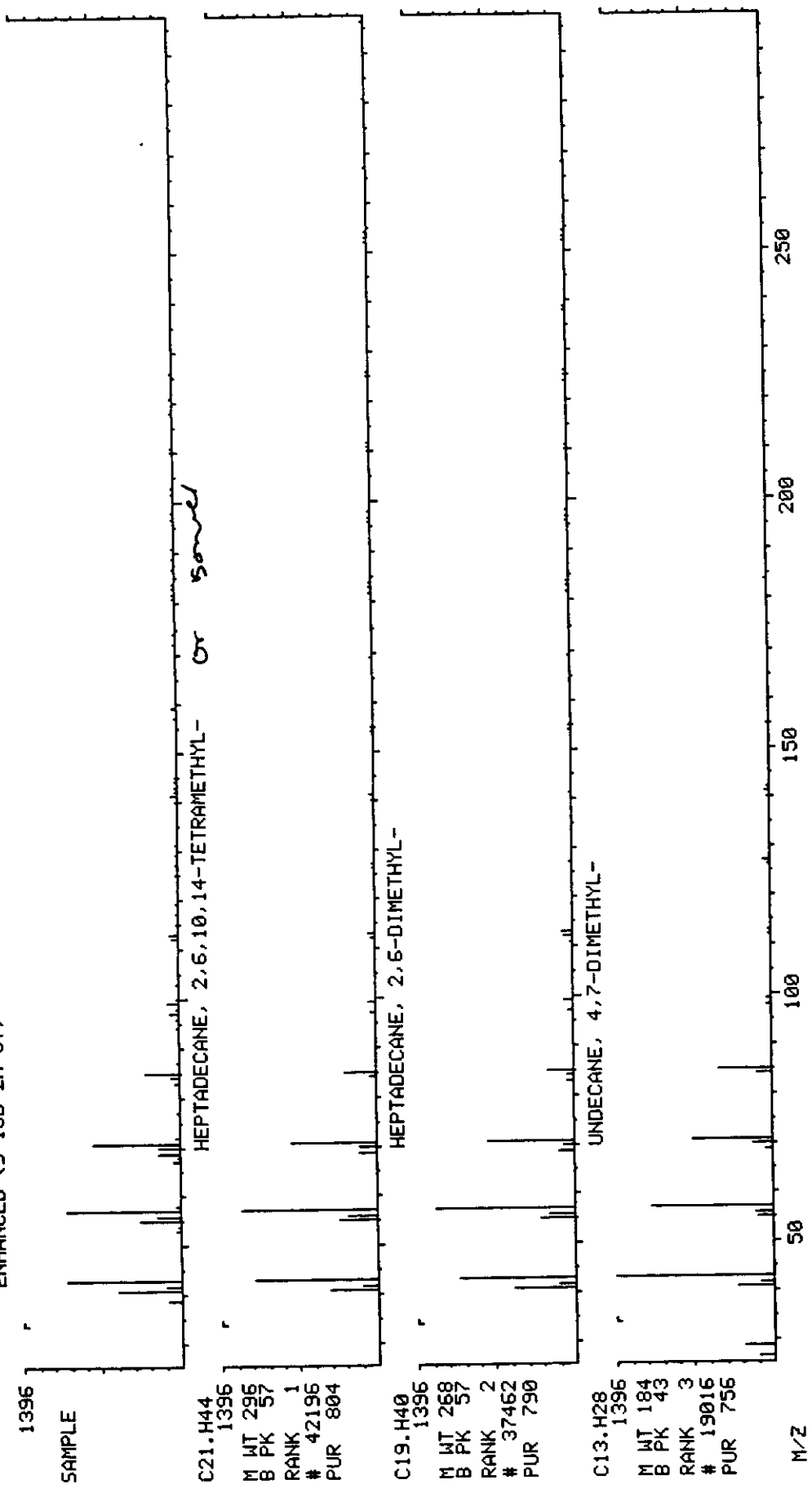
62231 spectra in LIBRARYNB searched for maximum PURITY
 855 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 2 37462 HEPTADECANE, 2,6-DIMETHYL-
 3 19016 UNDECANE, 4,7-DIMETHYL-
 4 18987 UNDECANE, 2,8-DIMETHYL-
 5 19023 DECANE, 2,6,7-TRIMETHYL-
 6 8104 OCTANE, 3,5-DIMETHYL-
 7 19054 UNDECANE, 2,6-DIMETHYL-
 8 15353 2,6-DIMETHYLDECANE
 9 19004 UNDECANE, 4,6-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H44	296	57	804	967	822
2	C19.H40	268	57	790	949	811
3	C13.H28	184	43	756	940	762
4	C13.H28	184	43	756	955	760
5	C13.H28	184	57	755	951	755
6	C10.H22	142	57	754	966	754
7	C13.H28	184	57	754	909	763
8	C12.H26	170	43	754	916	774
9	C13.H28	184	57	750	960	750

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18344-37-1
2	—	—	—	—	54105-67-8
3	—	—	—	—	17301-32-5
4	—	—	—	—	17301-25-6
5	—	—	—	—	62108-25-2
6	—	—	—	—	15869-93-9
7	—	—	—	—	17301-23-4
8	—	—	—	—	13150-81-7
9	—	—	—	—	17312-82-2

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 9:08
 SAMPLE: S-MM5-5 1/35A/100M
 COND5.: UG/ML *100ML *100Z/100Z *(NA/NA >1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068111 # 821
 CALI: 30068111 # 3
 BASE M/Z: 43
 RIC: 133532.



Library Search Data: 30068111 # 859 Base m/z: 57
 08/31/98 23:58:00 + 9:33 Cali: 30068111 # 3 RIC: 151040.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

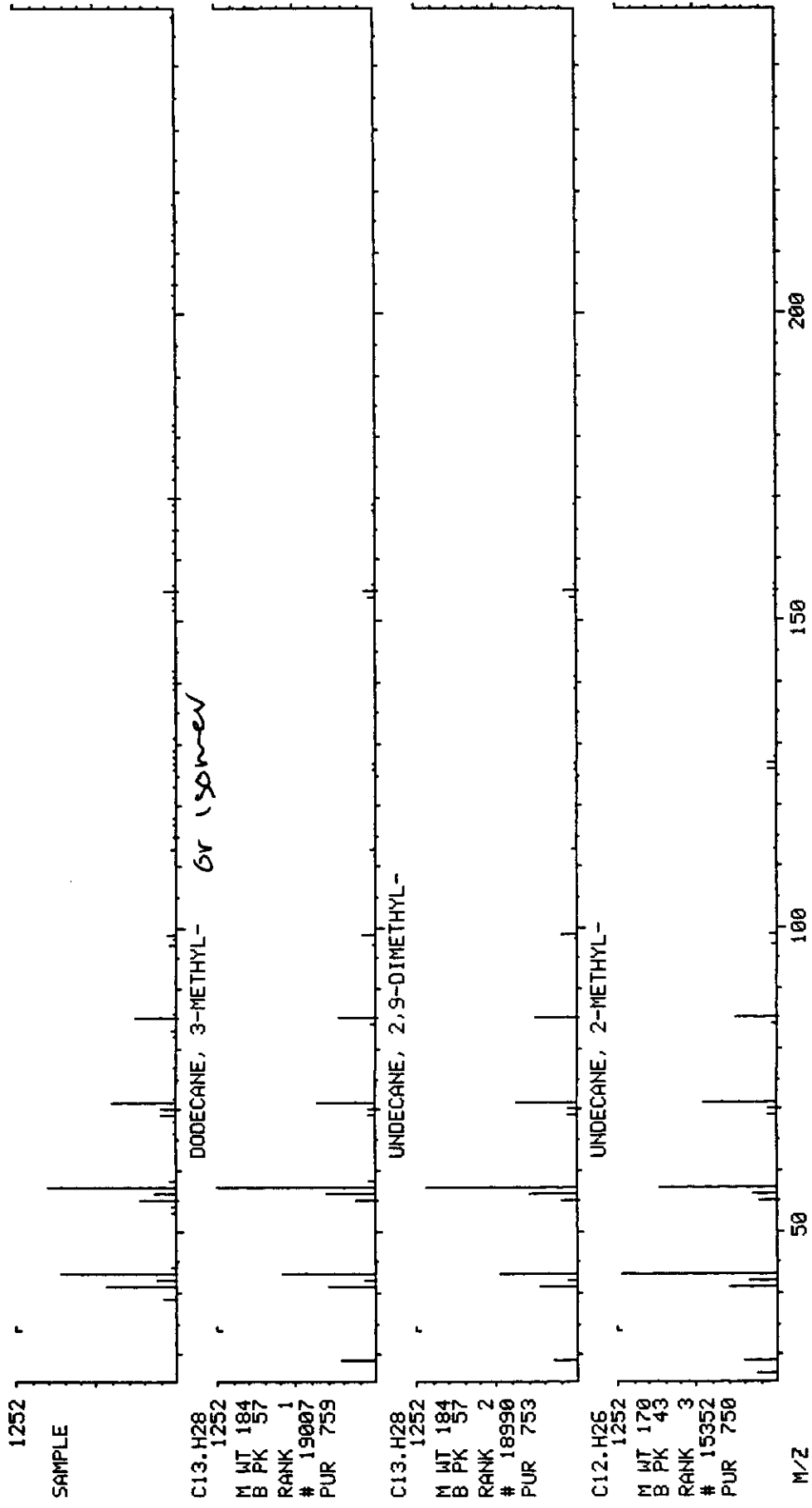
62231 spectra in LIBRARYNB searched for maximum PURITY
 663 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 19007 DODECANE, 3-METHYL-
 2 18990 UNDECANE, 2,9-DIMETHYL-
 3 15352 UNDECANE, 2-METHYL-
 4 39681 1-IOUUNDECANE
 5 22536 TRIDECANE, 3-METHYL-
 6 46040 TETRADECANE, 1-IOUO-
 7 37252 DECANE, 1-IOUO-
 8 19006 DECANE, 6-ETHYL-2-METHYL-
 9 19032 UNDECANE, 5-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	759	953	766
2	C13.H28	184	57	753	956	753
3	C12.H26	170	43	750	925	760
4	C11.H23.I	282	57	747	966	755
5	C14.H30	198	57	743	940	748
6	C14.H29.I	324	57	742	983	746
7	C10.H21.I	268	57	741	971	747
8	C13.H28	184	57	737	949	745
9	C13.H28	184	57	736	963	736

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	17312-57-1
2	—	—	—	—	17301-26-7
3	—	—	—	—	7045-71-8
4	—	—	—	—	4282-44-4
5	—	—	—	—	6418-41-3
6	—	—	—	—	19218-94-1
7	—	—	—	—	2050-77-3
8	—	—	—	—	62108-21-8
9	—	—	—	—	17453-94-0

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 9:33
 SAMPLE: 5-MM5-5 1/35A/100M
 COND5.: UG/ML *100ML *100%/100% *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 30068111 # 859
 CALI: 30068111 # 3
 BASE M/Z: 57
 RIC: 151040.



Library Search Data: 30068111 # 904 Base m/z: 41
 08/31/98 23:58:00 + 10:03 Cali: 30068111 # 3 RIC: 68864.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 551 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37444 OXIRANE, HEXADECYL-
 2 37449 OCTADECANAL
 3 40233 NONADECANOL
 4 42521 1-EICOSANOL
 5 42180 OCTADECANE, 1-(ETHENYLOXY)-
 6 40193 CIS-9,10-EPOXYOCTADECAN-1-OL
 7 60775 HEXADECANE, 1,1-BIS(DODECYLOXY)-
 8 48775 OCTADECANAL, 2-BROMO-
 9 31486 ACETAMIDE, N-METHYL-N-[4-[4-METHOXY-1-HEXAHYDROPYRIDYL]-2-BUTYNYL]-

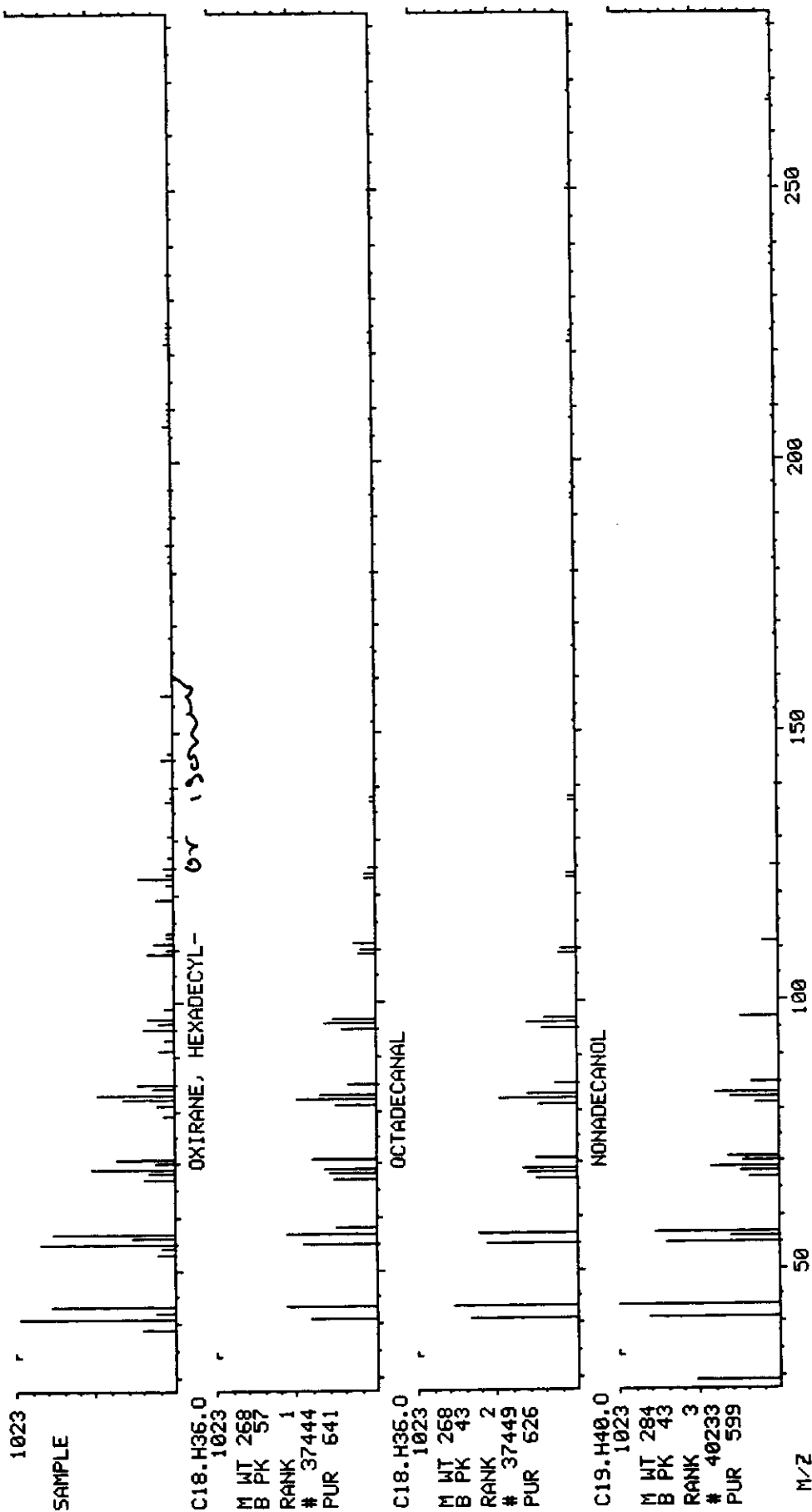
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H36.O	268	57	641	880	675
2	C18.H36.O	268	43	626	892	657
3	C19.H40.O	284	43	599	945	623
4	C20.H42.O	298	43	595	941	623
5	C20.H40.O	296	43	587	942	610
6	C18.H36.O2	284	55	580	898	607
7	C40.H82.O2	594	43	575	900	612
8	C18.H35.O.BR	346	43	575	821	663
9	C13.H22.O2.N2	238	43	571	865	633

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7390-81-0
2	—	—	—	—	638-66-4
3	—	—	—	—	52783-43-4
4	—	—	—	—	629-96-9
5	—	—	—	—	930-02-9
6	—	—	—	—	13980-12-6
7	—	—	—	—	56554-64-4
8	—	—	—	—	56599-95-2
9	—	—	—	—	

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 23:58:00 + 10:03
 SAMPLE: S-MM5-5 1/35A/100M
 CONDS.: UG/ML *100ML *100%/100% *(NA/NA) >1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068111 # 904
 CALI: 30068111 # 3

BASE M/Z: 41
 RIC: 68864.



Library Search Data: 30068111 # 948 Base m/z: 57
 08/31/98 23:58:00 + 10:33 Cali: 30068111 # 3 RIC: 154880.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 338 matched at least 8 of the 16 largest peaks in the unknown

Rank In. Name
 1 37465 NONADECANE
 2 15969 HYDROXYLAMINE, O-DECYL-
 3 37462 HEPTADECANE, 2,6-DIMETHYL-
 4 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 5 25997 PENTADECANE
 6 19016 UNDECANE, 4,7-DIMETHYL-
 7 19523 1-DECANOL, 2-ETHYL-
 8 46161 TRICOSANE
 9 15353 2,6-DIMETHYLDECANE

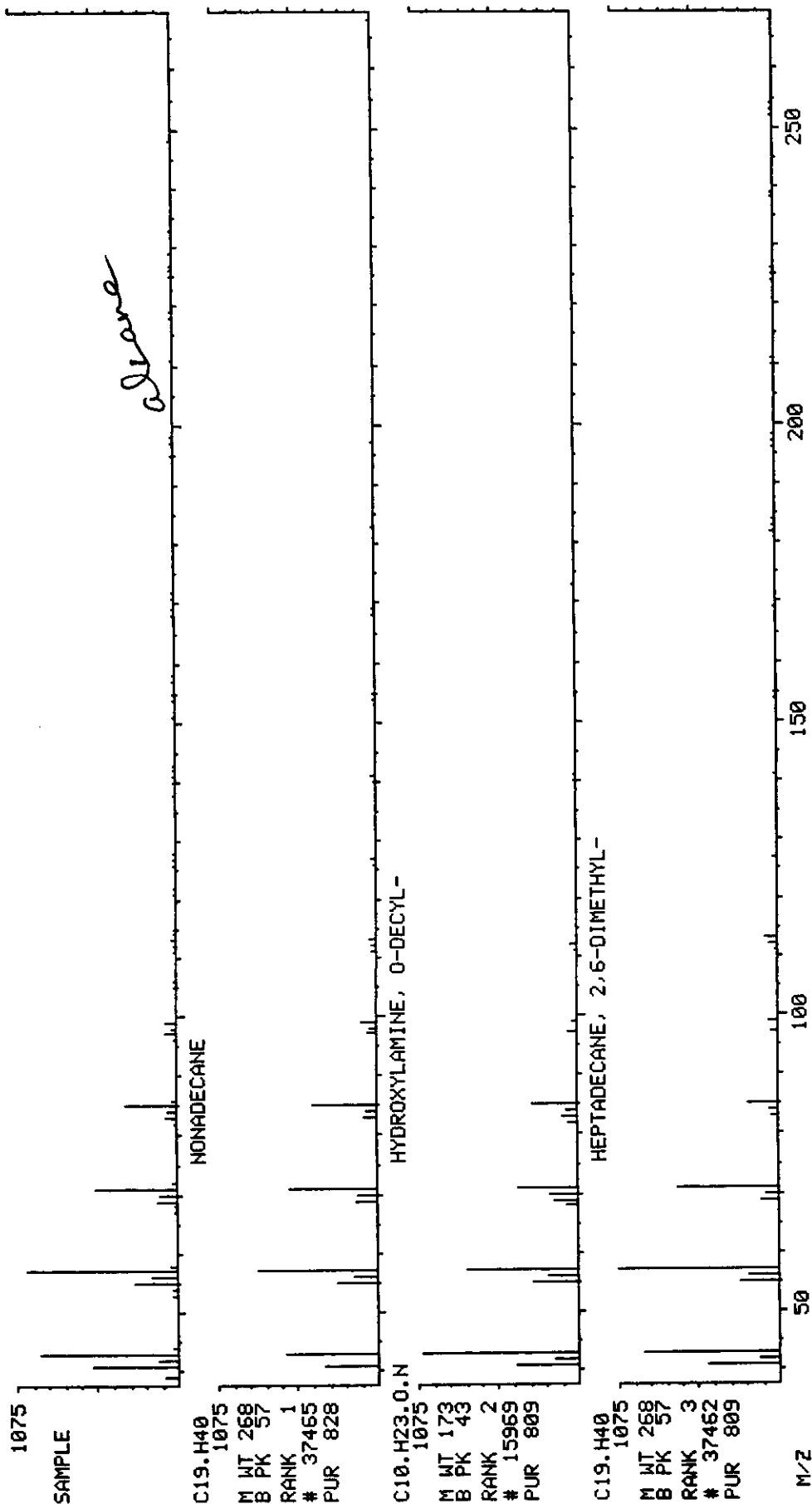
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	828	958	848
2	C10.H23.O.N	173	43	809	967	811
3	C19.H40	268	57	809	935	842
4	C21.H44	296	57	799	941	824
5	C15.H32	212	57	793	952	817
6	C13.H28	184	43	786	958	787
7	C12.H26.O	186	57	783	933	796
8	C23.H48	324	43	778	898	845
9	C12.H26	170	43	775	922	784

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-92-5
2	—	—	—	—	29812-79-1
3	—	—	—	—	54105-67-8
4	—	—	—	—	18344-37-1
5	—	—	—	—	629-62-9
6	—	—	—	—	17301-32-5
7	—	—	—	—	21078-65-9
8	—	—	—	—	638-67-5
9	—	—	—	—	13150-81-7

MID LIBRARY SEARCH <LIBRARYNB>
 08/31/98 23:58:00 + 10:33
 SAMPLE: S-MMS-5 1/35A/100M
 COND.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 158 2N 0T)

DATA: 30068111 # 948
 CALI: 30068111 # 3

BASE M/Z: 57
 RIC: 154880.



Library Search Data: 30068111 # 988 Base m/z: 57
 08/31/98 23:58:00 + 10:59 Cali: 30068111 # 3 RIC: 118144.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 446 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 25996 TRIDECANE, 4,8-DIMETHYL-
 2 22530 TETRADECANE
 3 19054 UNDECANE, 2,6-DIMETHYL-
 4 25997 PENTADECANE
 5 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 6 32059 HEPTADECANE
 7 37462 HEPTADECANE, 2,6-DIMETHYL-
 8 29263 HEXADECANE
 9 22527 DODECANE, 2,5-DIMETHYL-

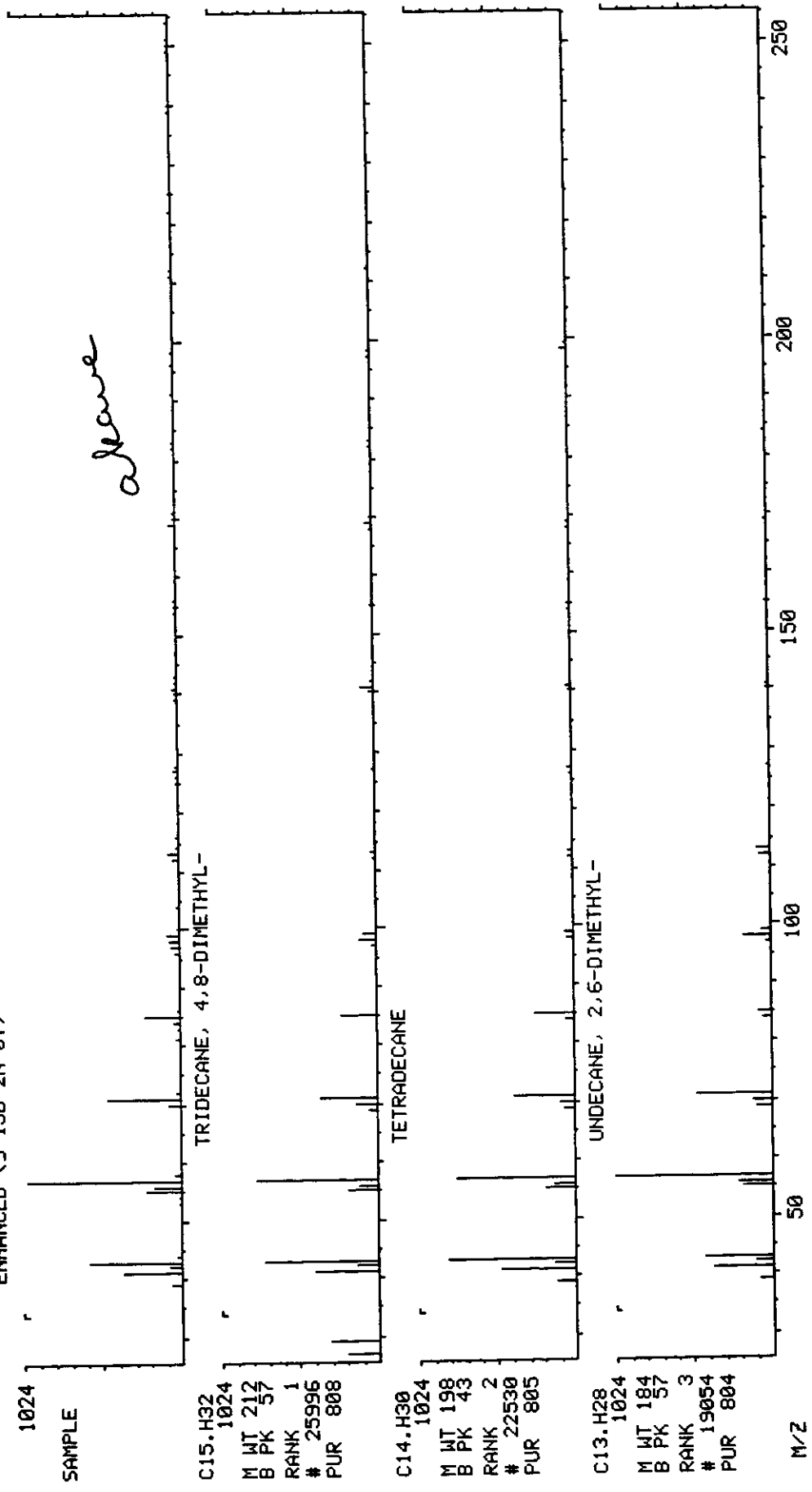
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H32	212	57	808	923	835
2	C14.H30	198	43	805	927	828
3	C13.H28	184	57	804	919	833
4	C15.H32	212	57	803	932	829
5	C21.H44	296	57	802	920	838
6	C17.H36	240	57	796	908	829
7	C19.H40	268	57	795	914	834
8	C16.H34	226	57	786	898	846
9	C14.H30	198	57	782	913	800

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	55030-62-1
2	—	—	—	—	629-59-4
3	—	—	—	—	17301-23-4
4	—	—	—	—	629-62-9
5	—	—	—	—	18344-37-1
6	—	—	—	—	629-78-7
7	—	—	—	—	54105-67-8
8	—	—	—	—	544-76-3
9	—	—	—	—	56292-65-0

DATA: 30068111 # 988
CALI: 30068111 # 3
BASE M/Z: 57
RIC: 118144.

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:58:00 + 10:59
SAMPLE: S-RMS-5 1/35A/100M
CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA >1/35A NA M
ENHANCED (5 15B 2N 0T)

INST. ID: F16



Library Search Data: 30068111 #1036 Base m/z: 57
 08/31/98 23:58:00 + 11:31 Cali: 30068111 # 3 RIC: 180992.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (\$ 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 840 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37462 HEPTADECANE, 2,6-DIMETHYL-
 2 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 3 37465 NONADECANE
 4 26001 DODECANE, 2,7,10-TRIMETHYL-
 5 25991 DODECANE, 2,6,10-TRIMETHYL-
 6 22535 DODECANE, 4,6-DIMETHYL-
 7 37466 PENTADECANE, 2,6,10,14-TETRAMETHYL-
 8 25994 DODECANE, 2,6,11-TRIMETHYL-
 9 42192 HEPTADECANE, 2,6,10,15-TETRAMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	865	973	873
2	C21.H44	296	57	829	955	841
3	C19.H40	268	57	822	943	833
4	C15.H32	212	57	811	967	815
5	C15.H32	212	57	809	971	811
6	C14.H30	198	57	808	963	809
7	C19.H40	268	71	805	944	820
8	C15.H32	212	57	791	944	799
9	C21.H44	296	57	788	932	820

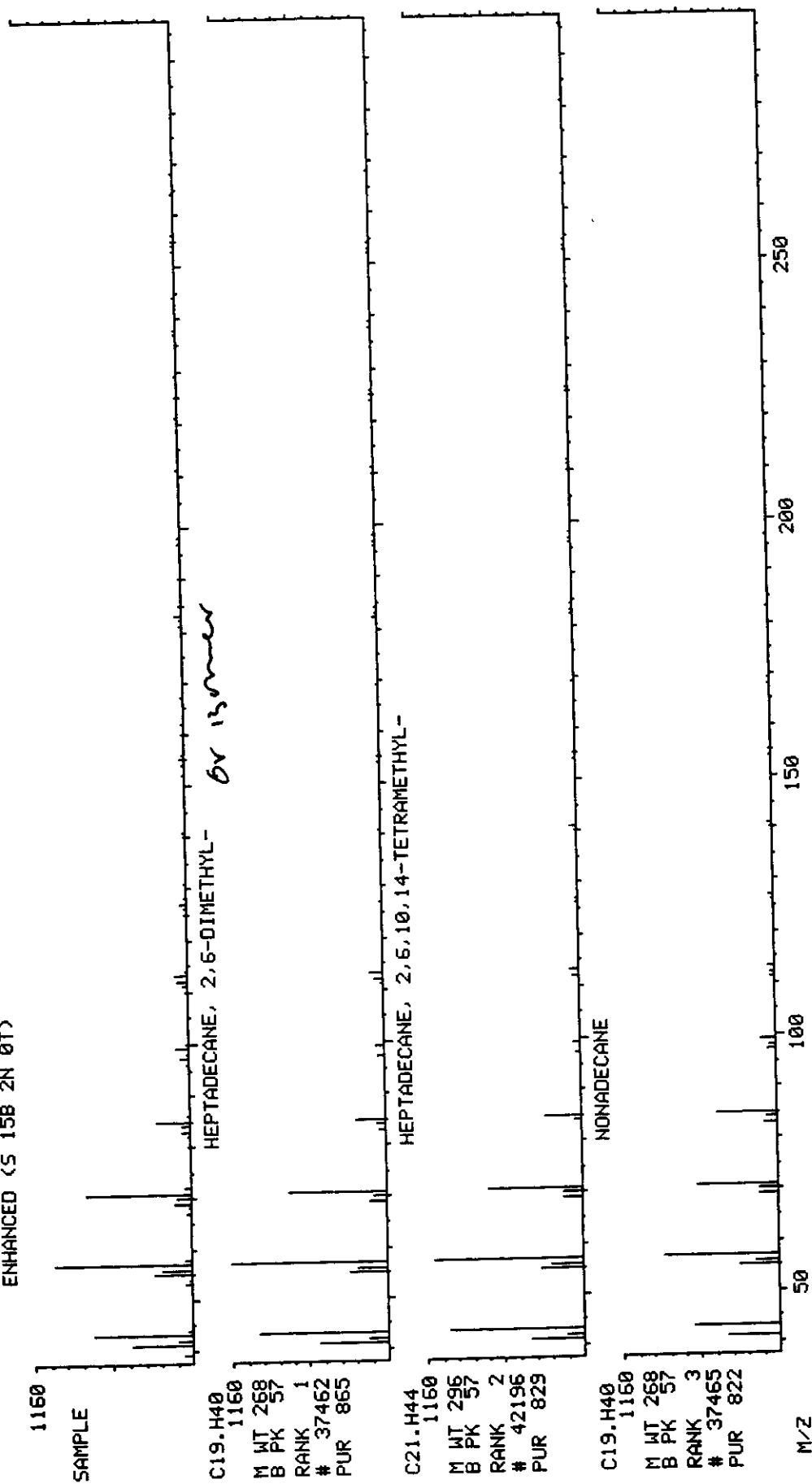
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54105-67-8
2	—	—	—	—	18344-37-1
3	—	—	—	—	629-92-5
4	—	—	—	—	74645-98-0
5	—	—	—	—	3891-98-3
6	—	—	—	—	61141-72-8
7	—	—	—	—	1921-70-6
8	—	—	—	—	31295-56-4
9	—	—	—	—	54833-48-6

BASE M/Z: 57
RIC: 180992.

DATA: 30058111 #1036
CALI: 30058111 # 3

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:58:00 + 11:31
SAMPLE: 5-MMS-5 1/35A/100M
CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
ENHANCED (S 158 2N 0T)

INST. ID: F16



Library Search Data: 30068111 #1114 Base m/z: 57
 08/31/98 23:58:00 + 12:23 Cali: 30068111 # 3 RIC: 76160.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 317 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	15969	HYDROXYLAMINE, O-DECYL-
2	19523	1-DECANOL, 2-ETHYL-
3	37465	NONADECANE
4	12074	1-HEPTANOL, 2-PROPYL-
5	19015	DECANE, 2,5,6-TRIMETHYL-
6	19016	UNDECANE, 4,7-DIMETHYL-
7	42196	HEPTADECANE, 2,6,10,14-TETRAMETHYL-
8	8104	OCTANE, 3,5-DIMETHYL-
9	19520	1-OCTANOL, 2-BUTYL-

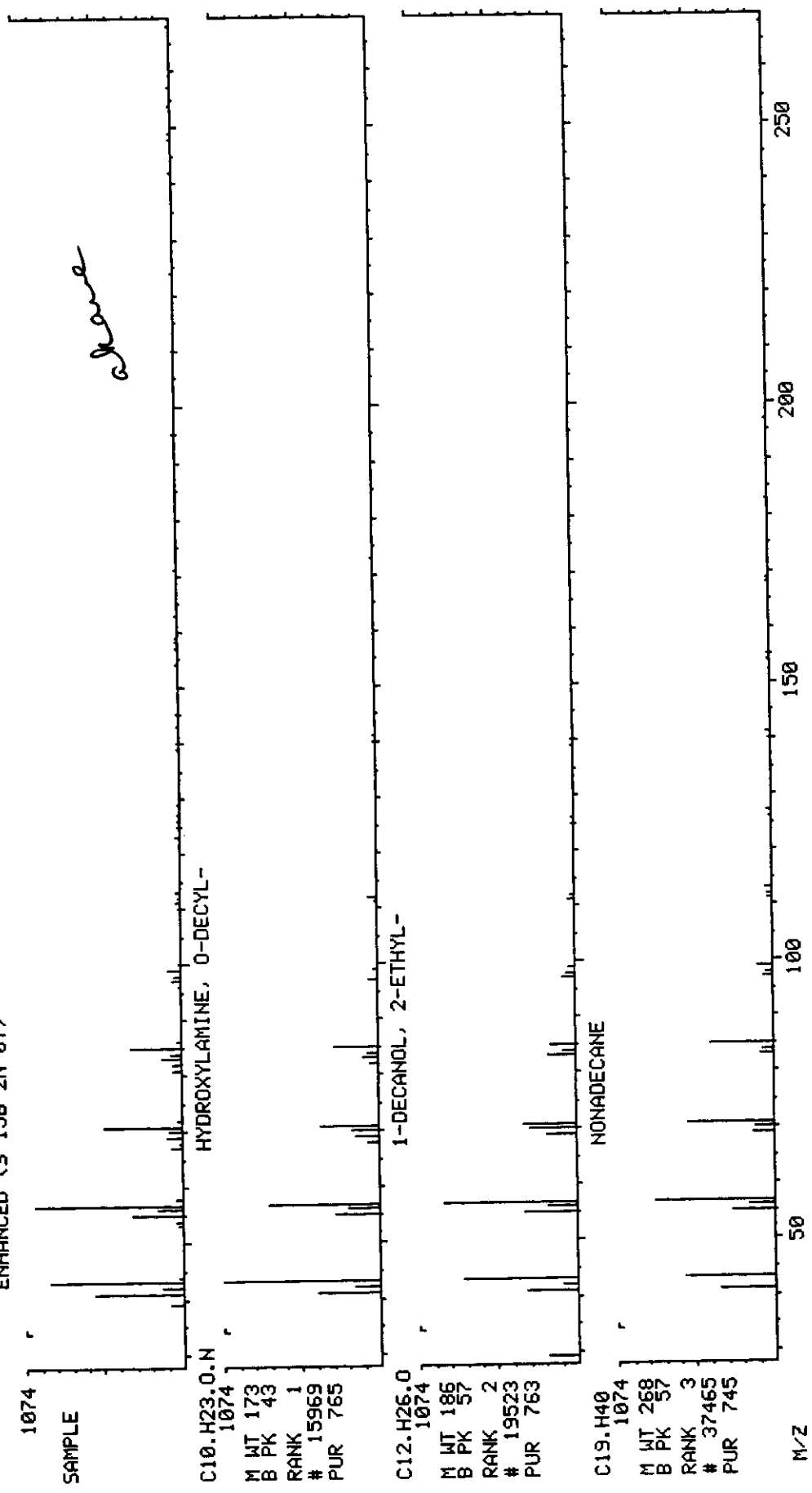
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	765	960	773
2	C12.H26.O	186	57	763	947	763
3	C19.H40	268	57	745	928	780
4	C10.H22.O	158	43	733	953	733
5	C13.H28	184	57	713	929	713
6	C13.H28	184	43	711	937	724
7	C21.H44	296	57	711	911	760
8	C10.H22	142	57	710	942	717
9	C12.H26.O	186	57	710	890	723

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	29812-79-1
2	—	—	—	—	21078-65-9
3	—	—	—	—	629-92-5
4	—	—	—	—	10042-59-8
5	—	—	—	—	62108-23-0
6	—	—	—	—	17301-32-5
7	—	—	—	—	18344-37-1
8	—	—	—	—	15869-93-9
9	—	—	—	—	3913-02-8

DATA: 30068111 #1114
CALI: 30068111 # 3
BASE M/Z: 57
RIC: 76160.

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 23:58:00 + 12:23
SAMPLE: 5-MMS-5 1/35A/100M
CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA)/1/35A NA M
ENHANCED (S 158 2N 0T)

INST. ID: F16



Library Search Data: 30068111 #1119 Base m/z: 57
 08/31/98 23:58:00 + 12:27 Cali: 30068111 # 3 RIC: 107648.
 Sample: S-MM5-5 1/3SA/100M INST. ID: F16
 Conds.: UG/ML *100ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 840 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name
 1 37465 NONADECANE
 2 37462 HEPTADECANE, 2,6-DIMETHYL-
 3 42196 HEPTADECANE, 2,6,10,14-TETRAMETHYL-
 4 46161 TRICOSANE
 5 32059 HEPTADECANE
 6 37466 PENTADECANE, 2,6,10,14-TETRAMETHYL-
 7 25991 DODECANE, 2,6,10-TRIMETHYL-
 8 29263 HEXADECANE
 9 26001 DODECANE, 2,7,10-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	834	958	848
2	C19.H40	268	57	824	941	834
3	C21.H44	296	57	808	935	824
4	C23.H48	324	43	800	907	854
5	C17.H36	240	57	794	925	819
6	C19.H40	268	71	793	931	804
7	C15.H32	212	57	792	961	793
8	C16.H34	226	57	789	920	822
9	C15.H32	212	57	787	962	787

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-92-5
2	—	—	—	—	54105-67-8
3	—	—	—	—	18344-37-1
4	—	—	—	—	638-67-5
5	—	—	—	—	629-78-7
6	—	—	—	—	1921-70-6
7	—	—	—	—	3891-98-3
8	—	—	—	—	544-76-3
9	—	—	—	—	74645-98-0

BASE M/Z: 57
RIC: 107648.

DATA: 30068111 #1119
CALI: 30068111 # 3

MID LIBRARY SEARCH (LIBRARYNB)

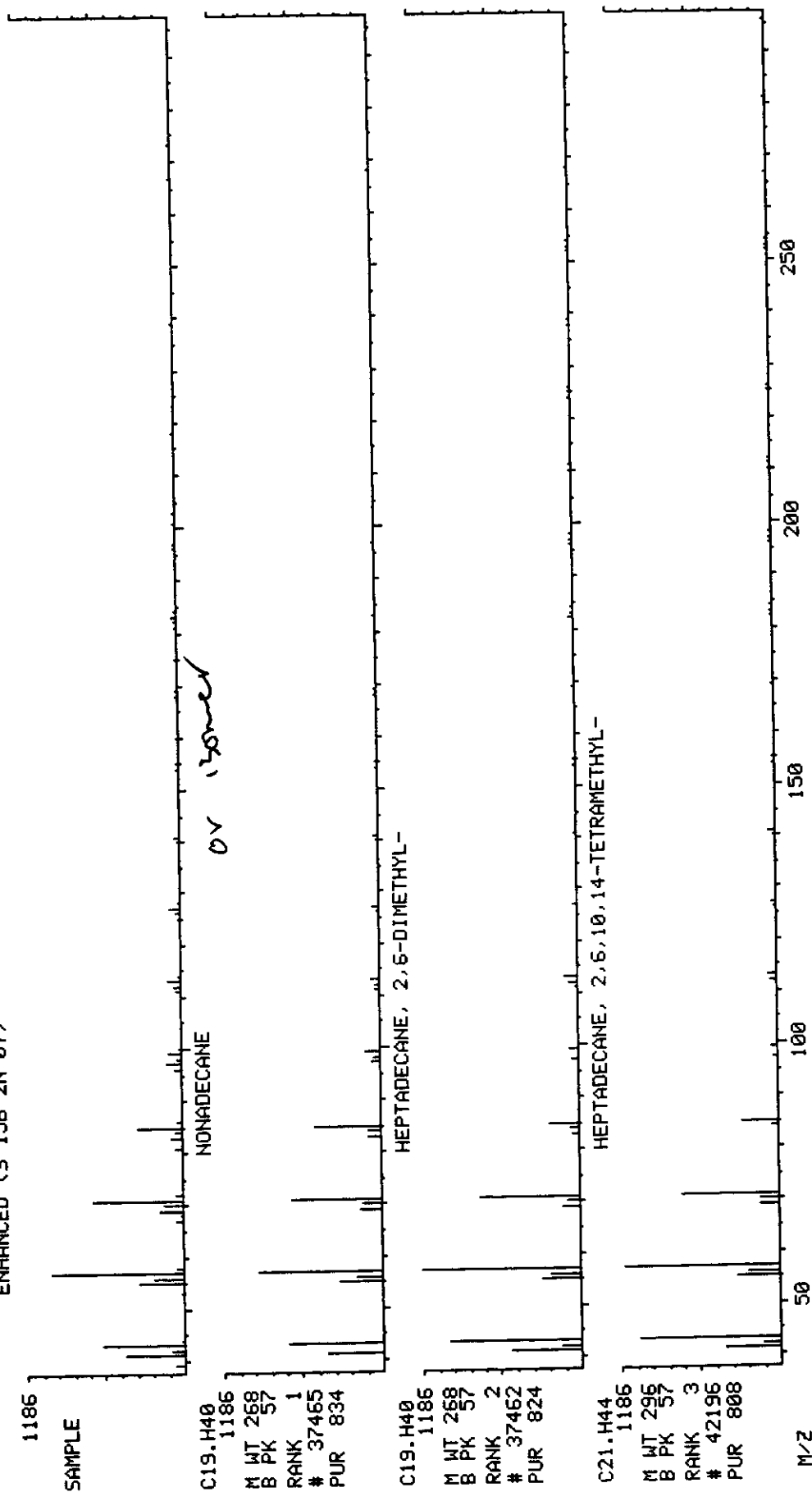
08/31/98 23:58:00 + 12:27

SAMPLE: S-MM5-5 1/35A/100M

INST. ID: F16

CONDS.: UG/ML *100ML *100Z/100Z *(NA/NA >1/35A NA M

ENHANCED (S 158 2N 0T)



TIC SELECTION REPORT

DATA FILE: 30068111

THE FOLLOWING PEAKS WERE REJECTED BECAUSE
AT LEAST 40 % OF THEIR SIZE WAS ACCOUNTED FOR BY
TARGET COMPOUNDS ELUTING WITHIN 4 SCANS OF THE
PEAK TOP.

SCAN	SIZE	AMOUNT
340	249568.	29.386
531	398976.	46.978
830	339712.	40.000
1088	456704.	40.000
1553	344352.	40.000
1783	292571.	40.000

TOTAL NUMBER OF UNIDENTIFIED PEAKS WITH SIZE
GREATER THAN 10 % OF THE CLOSEST INTERNAL STANDARD
THAT DOES NOT HAVE INTERFERENCES = 97

INTERNAL STANDARDS THAT HAVE RIC SIZE LESS THAN
50 % OR GREATER THAN 200 % OF THE ESTIMATED RIC SIZE
ARE CONSIDERED TO HAVE INTERFERENCES AND WILL NOT BE USED
FOR QUANTITATION.

#	INTERNAL STANDARD	RIC SIZE	PERCENT OF ESTIMATED RIC SIZE	SCAN
1	C140 NAPHTHALENE-D8	398976.	229 *	531
2	C150 ACENAPHTHENE-D10	339712.	152	830
3	C160 PHENANTHRENE-D10	456704.	181	1088
4	C170 CHRYSENE-D12	344352.	157	1553
5	C175 PERYLENE-D12	292571.	147	1783

* INDICATES INTERFERENCE

SIZE = AREA

Initial Calibration

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

Library Entry Compound	Initial Calibration			Continuing Calibration	
	Response Factor	% RSD		Response Factor	% Diff
	Avg	Min	Max	Min	Max
=====					
S1 15 C310 N-NITROSODIMETH	1.019		4.4		
S1 100 C320 ANILINE	1.846		6.2		
S1 105 C315 PHENOL	1.968		7.8	30.0	
S1 110 C325 BIS(2-CHLOROETH	1.368		6.1		
S1 115 C330 2-CHLOROPHENOL	1.497		5.5		
S1 125 C335 1,3-DICHLOROBEN	1.586		4.5		
S1 130 C340 1,4-DICHLOROBEN	1.618		4.8	30.0	
S1 145 C345 BENZYL ALCOHOL	0.854		9.3		
S1 150 C350 1,2-DICHLOROBEN	1.500		5.0		
S1 160 C355 2-METHYLPHENOL	1.174		7.4		
S1 165 C360 2,2'-OXYBIS(1-C	2.539		3.9		
S1 185 C365 4-METHYLPHENOL	1.276		9.0		
S1 190 C370 N-NITROSO-DI-N-	0.906	0.050	5.1		
S1 200 C375 HEXACHLOROETHAN	0.708		3.5		
S2 10 C410 NITROBENZENE	0.445		7.2		
S2 20 C415 ISOPHORONE	0.742		5.5		
S2 25 C420 2-NITROPHENOL	0.213		7.9	30.0	
S2 30 C425 2,4-DIMETHYLPHE	0.330		16.9		
S2 45 C430 BENZOIC ACID	0.276		4.7		
S2 35 C435 BIS(2-CHLOROETH	0.511		4.1		
S2 40 C440 2,4-DICHLOROPHE	0.308		6.6	30.0	
S2 55 C445 1,2,4-TRICHLORO	0.331		5.0		
S2 60 C450 NAPHTHALENE	1.022		6.6		
S2 80 C455 4-CHLOROANILINE	0.454		4.5		
S2 95 C460 HEXACHLOROBUTAD	0.168		5.1	30.0	
S2 130 C465 4-CHLORO-3-METH	0.338		9.0	30.0	
S2 145 C470 2-METHYLNAPHTHA	0.751		10.8		
S3 20 C510 HEXACHLOROCYCLO	0.372	0.050	10.1		
S3 25 C515 2,4,6-TRICHLORO	0.404		10.6	30.0	
S3 30 C520 2,4,5-TRICHLORO	0.412		7.1		
S3 40 C525 2-CHLORONAPHTHA	1.193		6.6		
S3 45 C530 2-NITROANILINE	0.502		2.9		
S3 55 C535 DIMETHYLPHTHALA	1.341		6.1		
S3 65 C540 ACENAPHTHYLENE	1.839		8.2		
S3 70 C543 2,6-DINITROTOLU	0.324		8.5		
S3 75 C545 3-NITROANILINE	0.383		1.4		
S3 80 C550 ACENAPHTHENE	1.158		6.9	30.0	
S3 85 C555 2,4-DINITROPHEN	0.189	0.050	10.3		

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

Library Entry Compound	Initial Calibration			Continuing Calibration	
	Response Factor	% RSD		Response Factor	% Diff
	Avg	Min	Max	Min	Max
S3 90 C565 DIBENZOFURAN	1.669	6.2			
S3 105 C570 2,4-DINITROTOLU	0.397	8.8			
S3 130 C580 DIETHYLPHTHALAT	1.369	7.7			
S3 140 C585 4-CHLOROPHENYL-	0.613	5.4			
S3 135 C590 FLUORENE	1.298	6.8			
S3 150 C595 4-NITROANALINE	0.307	8.4			
S4 10 C610 4,6-DINITRO-2-M	0.132	7.6			
S4 15 C615 N-NITROSODIPHEN	0.551	4.2	30.0		
S4 20 C620 AZOBENZENE	1.171	3.9			
S4 30 C625 4-BROMOPHENYL-P	0.223	3.9			
S4 40 C630 HEXACHLOROBENZE	0.260	6.7			
S4 50 C635 PENTACHLOROPHEN	0.155	5.9	30.0		
S4 65 C640 PHENANTHRENE	1.033	5.2			
S4 70 C645 ANTHRACENE	0.987	11.0			
S4 80 C647 CARBAZOLE	0.764	10.3			
S4 85 C650 DI-N-BUTYLPHTHA	1.247	9.4			
S4 110 C655 FLUORANTHENE	0.900	13.5	30.0		
S5 10 C710 BENZIDINE	0.129	23.7			
S5 15 C715 PYRENE	1.323	6.5			
S5 40 C720 BUTYLBENZYLPHTH	0.685	7.7			
S5 55 C725 3,3'-DICHLOBE	0.408	5.7			
S5 50 C730 BENZO(A)ANTHRAC	1.125	5.4			
S5 60 C740 CHRYSENE	1.014	6.7			
S5 65 C745 BIS(2-ETHYLHEXY	0.980	9.4			
S6 10 C760 DI-N-OCTYL PHTH	1.925	7.4	30.0		
S6 15 C765 BENZO(B)FLUORAN	1.444	5.0			
S6 25 C770 BENZO(K)FLUORAN	1.159	9.8			
S6 35 C775 BENZO(A)PYRENE	1.182	5.3	30.0		
S6 55 C780 INDENO(1,2,3-CD	1.279	6.6			
S6 60 C785 DIBENZ(A,H)ANTH	1.267	8.1			
S6 65 C790 BENZO(G,H,I)PER	1.331	8.2			
S1 6 CS75 1,2-DICHLOROBENZ	0.920	6.5			
S2 2 CS20 NITROBENZENE-D5	0.470	5.2			
S3 3 CS25 2-FLUOROBIPHENY	1.234	6.2			
S5 2 CS30 TERPHENYL-D14	0.995	5.3			
S1 3 CS45 PHENOL-D5	2.026	2.0			
S1 2 CS50 2-FLUOROPHENOL	1.368	4.4			
S1 5 CS70 2-CHLOROPHENOL-	1.482	4.1			
S3 2 CS55 2,4,6-TRIBROMOP	0.236	6.9			

0 CCC and SPCC compounds are out

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S1 15	10	0.952	20	1.010	50	1.016	80	1.087	120	1.008	160	1.042
S1 100	10	1.947	20	1.988	50	1.814	80	1.876	120	1.778	160	1.674
S1 105	10	1.699	20	2.037	50	2.035	80	2.148	120	1.907	160	1.982
S1 110	10	1.336	20	1.465	50	1.438	80	1.414	120	1.291	160	1.261
S1 115	10	1.386	20	1.569	50	1.522	80	1.603	120	1.450	160	1.451
S1 125	10	1.515	20	1.668	50	1.618	80	1.659	120	1.546	160	1.510
S1 130	10	1.580	20	1.695	50	1.666	80	1.697	120	1.549	160	1.518
S1 145	10	0.702	20	0.851	50	0.872	80	0.913	120	0.866	160	0.922
S1 150	10	1.475	20	1.606	50	1.482	80	1.573	120	1.454	160	1.409
S1 160	10	0.998	20	1.206	50	1.221	80	1.209	120	1.199	160	1.213
S1 165	10	2.393	20	2.676	50	2.597	80	2.582	120	2.502	160	2.486
S1 185	10	1.049	20	1.298	50	1.355	80	1.287	120	1.316	160	1.351
S1 190	10	0.819	20	0.934	50	0.938	80	0.940	120	0.913	160	0.890
S1 200	10	0.665	20	0.740	50	0.713	80	0.720	120	0.706	160	0.706
S2 10	10	0.423	20	0.477	50	0.455	80	0.486	120	0.419	160	0.410
S2 20	10	0.685	20	0.778	50	0.774	80	0.778	120	0.726	160	0.708
S2 25	10	0.182	20	0.212	50	0.218	80	0.232	120	0.219	160	0.217
S2 30	10	0.234	20	0.309	50	0.334	80	0.400	120	0.349	160	0.353
S2 45			20	0.257	50	0.279	80	0.270	120	0.280	160	0.292
S2 35	10	0.481	20	0.529	50	0.517	80	0.538	120	0.502	160	0.498
S2 40	10	0.270	20	0.313	50	0.314	80	0.332	120	0.311	160	0.306
S2 55	10	0.319	20	0.350	50	0.334	80	0.350	120	0.322	160	0.310
S2 60	10	1.008	20	1.090	50	1.038	80	1.102	120	0.960	160	0.935
S2 80	10	0.419	20	0.466	50	0.454	80	0.480	120	0.449	160	0.455
S2 95	10	0.160	20	0.178	50	0.170	80	0.177	120	0.167	160	0.157

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S2	130	10, 0.279	20, 0.337	50, 0.353	80, 0.365	120, 0.347	160, 0.346
S2	145	10, 0.773	20, 0.840	50, 0.827	80, 0.757	120, 0.671	160, 0.639
S3	20	10, 0.329	20, 0.387	50, 0.376	80, 0.428	120, 0.379	160, 0.330
S3	25	10, 0.327	20, 0.389	50, 0.405	80, 0.435	120, 0.417	160, 0.448
S3	30	10, 0.397	20, 0.437	50, 0.429	80, 0.443	120, 0.401	160, 0.366
S3	40	10, 1.172	20, 1.275	50, 1.208	80, 1.283	120, 1.128	160, 1.089
S3	45		20, 0.491	50, 0.510	80, 0.523	120, 0.487	160, 0.497
S3	55	10, 1.257	20, 1.423	50, 1.392	80, 1.426	120, 1.297	160, 1.251
S3	65	10, 1.751	20, 1.959	50, 1.896	80, 2.047	120, 1.707	160, 1.671
S3	70	10, 0.274	20, 0.339	50, 0.341	80, 0.351	120, 0.321	160, 0.317
S3	75		20, 0.382	50, 0.392	80, 0.382	120, 0.379	160, 0.379
S3	80	10, 1.140	20, 1.227	50, 1.182	80, 1.261	120, 1.075	160, 1.066
S3	85		20, 0.156	50, 0.190	80, 0.202	120, 0.203	160, 0.196
S3	95		20, 0.164	50, 0.178	80, 0.184	120, 0.168	160, 0.169

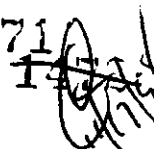
QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
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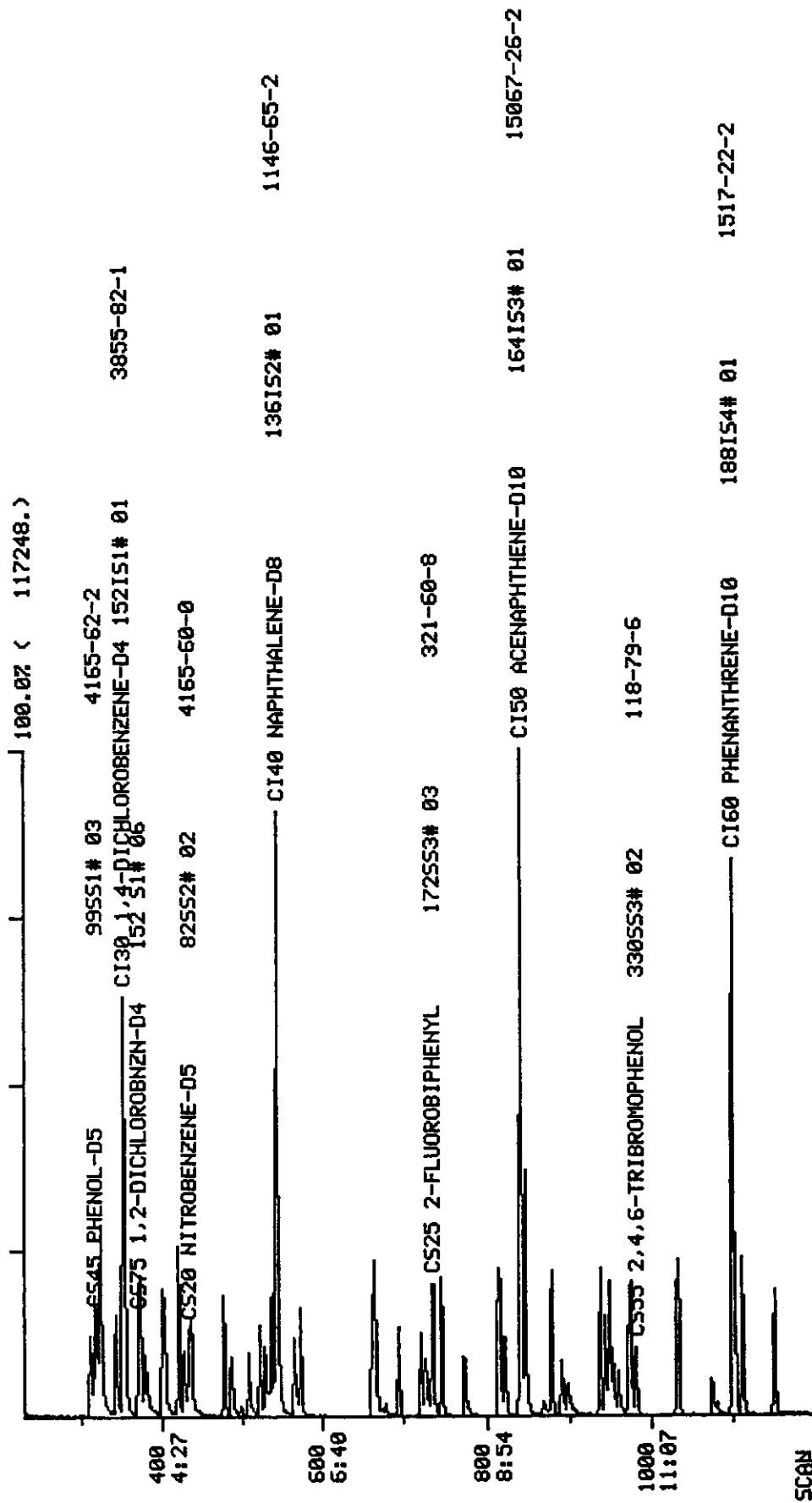
Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S3 90	10	1.617	20	1.782	50	1.736	80	1.762	120	1.556	160	1.561
S3 105	10	0.339	20	0.412	50	0.420	80	0.437	120	0.396	160	0.378
S3 130	10	1.300	20	1.462	50	1.452	80	1.462	120	1.328	160	1.209
S3 140	10	0.597	20	0.647	50	0.631	80	0.646	120	0.579	160	0.575
S3 135	10	1.251	20	1.398	50	1.340	80	1.386	120	1.224	160	1.188
S3 150			20	0.326	50	0.320	80	0.306	120	0.263	160	0.321
S4 10			20	0.121	50	0.139	80	0.145	120	0.124	160	0.130
S4 15	10	0.568	20	0.582	50	0.562	80	0.539	120	0.530	160	0.523
S4 20	10	1.150	20	1.222	50	1.186	80	1.212	120	1.098	160	1.158
S4 30	10	0.224	20	0.231	50	0.223	80	0.232	120	0.215	160	0.210
S4 40	10	0.273	20	0.281	50	0.255	80	0.268	120	0.238	160	0.242
S4 50			20	0.148	50	0.156	80	0.170	120	0.155	160	0.147
S4 65	10	1.017	20	1.081	50	1.044	80	1.096	120	0.948	160	1.010
S4 70	10	1.019	20	1.100	50	1.026	80	1.059	120	0.908	160	0.809
S4 80	10	0.914	20	0.763	50	0.729	80	0.769	120	0.707	160	0.701
S4 85	10	1.233	20	1.366	50	1.332	80	1.333	120	1.137	160	1.080
S4 110	10	1.013	20	1.008	50	0.925	80	0.950	120	0.788	160	0.715
S5 10			20	0.155	50	0.143	80	0.077	120	0.141	160	0.131
S5 15	10	1.209	20	1.310	50	1.295	80	1.468	120	1.295	160	1.358
S5 40	10	0.587	20	0.673	50	0.692	80	0.722	120	0.700	160	0.734
S5 55			20	0.441	50	0.421	80	0.383	120	0.405	160	0.391
S5 50	10	1.058	20	1.195	50	1.116	80	1.203	120	1.086	160	1.092
S5 60	10	1.034	20	1.068	50	1.005	80	1.102	120	0.959	160	0.919

1470

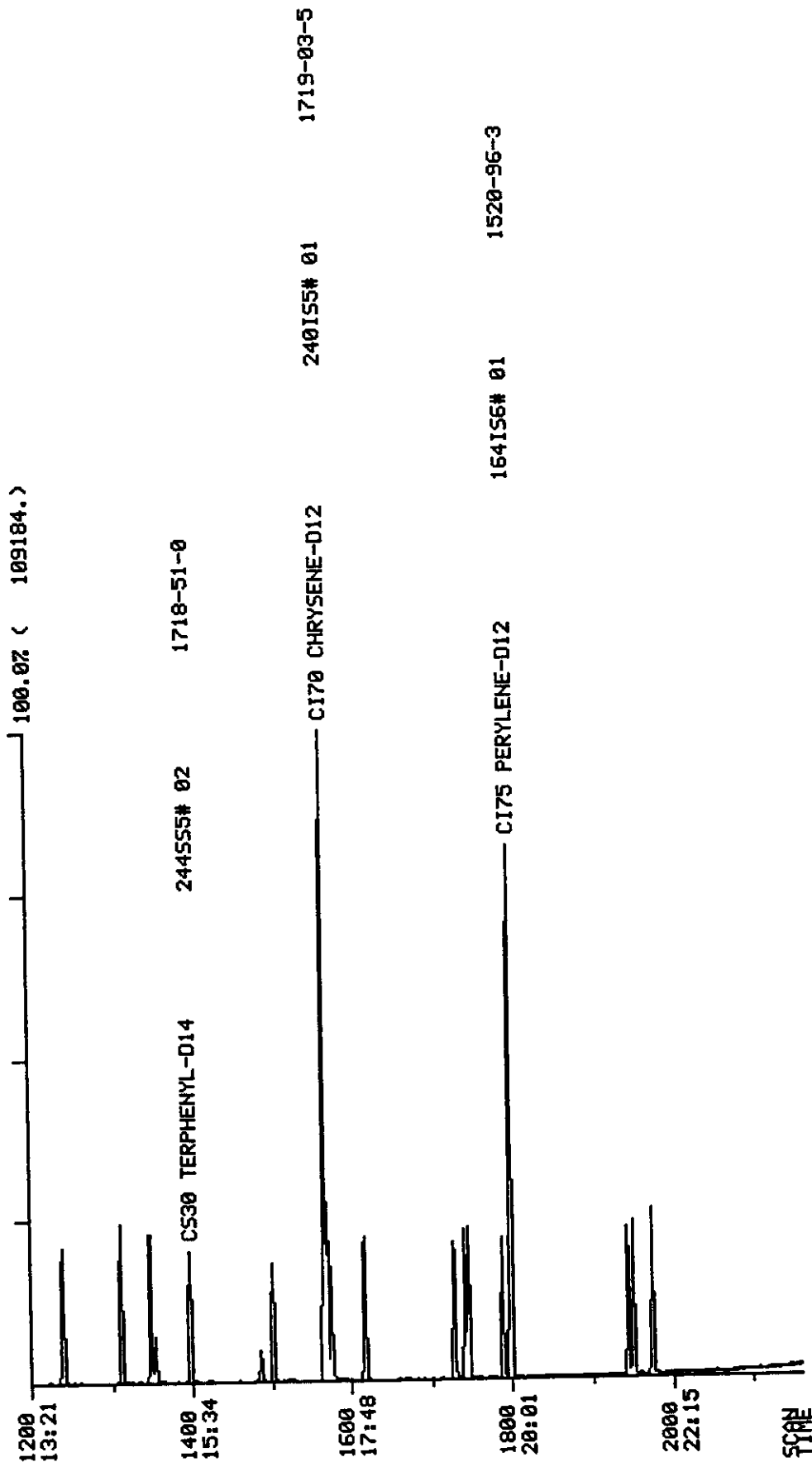
S6	15	10, 1.322	20, 1.536	50, 1.448	80, 1.453	120, 1.490	160, 1.412
S6	25	10, 1.185	20, 1.223	50, 1.171	80, 1.264	120, 1.171	160, 0.940
S6	35	10, 1.168	20, 1.257	50, 1.206	80, 1.229	120, 1.147	160, 1.084
S6	55	10, 1.253	20, 1.355	50, 1.312	80, 1.368	120, 1.241	160, 1.144
S6	60	10, 1.254	20, 1.386	50, 1.288	80, 1.360	120, 1.212	160, 1.105
S6	65	10, 1.339	20, 1.436	50, 1.356	80, 1.426	120, 1.289	160, 1.139
S1	6	10, 0.832	20, 0.999	50, 0.946	80, 0.959	120, 0.902	160, 0.882
S2	2	10, 0.446	20, 0.494	50, 0.469	80, 0.504	120, 0.452	160, 0.452
S3	3	10, 1.252	20, 1.315	50, 1.253	80, 1.299	120, 1.171	160, 1.116
S5	2	10, 0.932	20, 1.002	50, 0.976	80, 1.082	120, 0.960	160, 1.019
S1	3		20, 2.057	50, 2.059	80, 2.046	120, 1.995	160, 1.971
S1	2		20, 1.291	50, 1.332	80, 1.448	120, 1.376	160, 1.394
S1	5		20, 1.561	50, 1.501	80, 1.503	120, 1.437	160, 1.407
S3	2		20, 0.261	50, 0.239	80, 0.233	120, 0.228	160, 0.217

1471


DATA FROM FILE: ST16980827A SCANS 230 TO 1200 ACQUIRED: 08/27/98 9:55:00
CALI: ST16980827A #3
SAMPLE: SSTD010 10UG/ML CALI VI 070698D
CONDS.: INST. ID: F16



DATA FROM FILE: ST16980827A SCANS 1200 TO 2158 ACQUIRED: 08/27/98 9:56:00
 CALI: ST16980827A #3
 SAMPLE: SST0010 10UG/ML CALI UI 070698D
 CONDS.: INST. ID: F16



Data: ST16980827A.T1

08/27/98 9:56:00

Sample: SSTD010 10UG/ML CALI VI 070698D

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS75 1,2-DICHLOROBENZENE-D4	152 S1# 06	
11	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
12	C320 ANILINE	93 S1#100	62-53-3
13	C315 PHENOL	94 S1#105CC	108-95-2
14	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
15	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
16	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
17	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
18	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
19	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
20	C355 2-METHYLPHENOL	108 S1#160	95-48-7
21	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
22	C365 4-METHYLPHENOL	108 S1#185	106-44-5
23	C370 N-NITROSO-DI-N-PROPYLAM	70 S1#190SP	621-64-7
24	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
25	C410 NITROBENZENE	77 S2# 10	98-95-3
26	C415 ISOPHORONE	82 S2# 20	75-59-1
27	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
28	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
29	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
30	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
31	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
32	C450 NAPHTHALENE	128 S2# 60	91-20-3
33	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
34	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
35	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
36	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
37	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
38	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
39	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
40	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
41	C535 DIMETHYLPHTHALATE	163 S3# 55	131-11-3
42	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
43	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2
44	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
45	C565 DIBENZOFURAN	168 S3# 90	132-64-9
46	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
47	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2

No	Name		
48	C590 FLUORENE	166 S3#135	86-73-7
49	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
50	C615 N-NITROSDIPHENYLAMINE	169 S4# 15CC	87-30-6

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	350	3:54	1	1.000	A BB	33779.	40.000 UG/ML	4.55
2	136	541	6:01	2	1.000	A BB	121305.	40.000 UG/ML	4.55
3	164	840	9:21	3	1.000	A BB	64350.	40.000 UG/ML	4.55
4	188	1098	12:13	4	1.000	A BB	105698.	40.000 UG/ML	4.55
5	240	1565	17:24	5	1.000	A BV	92782.	40.000 UG/ML	4.55
6	264	1797	19:59	6	1.000	A BB	77868.	40.000 UG/ML	4.55
7	82	431	4:48	2	0.797	A BB	13522.	10.000 UG/ML	1.14
8	172	733	8:09	3	0.873	A BB	20134.	10.000 UG/ML	1.14
9	244	1395	15:31	5	0.891	A BB	21622.	10.000 UG/ML	1.14
10	152	369	4:06	1	1.054	A BB	7028.	10.000 UG/ML	1.14
11	74	109	1:13	1	0.311	A VB	8036.	10.000 UG/ML	1.14
12	93	310	3:27	1	0.886	A BV	16443.	10.000 UG/ML	1.14
13	94	316	3:31	1	0.903	A VB	14346.	10.000 UG/ML	1.14
14	93	323	3:36	1	0.923	A VB	11282.	10.000 UG/ML	1.14
15	128	323	3:36	1	0.923	A BB	11708.	10.000 UG/ML	1.14
16	146	341	3:48	1	0.974	A BV	12793.	10.000 UG/ML	1.14
17	146	352	3:55	1	1.006	A VB	13344.	10.000 UG/ML	1.14
18	108	377	4:12	1	1.077	A BB	5932.	10.000 UG/ML	1.14
19	146	371	4:08	1	1.060	A BB	12454.	10.000 UG/ML	1.14
20	108	399	4:26	1	1.140	A BB	8432.	10.000 UG/ML	1.14
21	45	399	4:26	1	1.140	A BB	20206.	10.000 UG/ML	1.14
22	108	425	4:44	1	1.214	A BB	8860.	10.000 UG/ML	1.14
23	70	418	4:39	1	1.194	A BV	6919.	10.000 UG/ML	1.14
24	117	418	4:39	1	1.194	A BB	5614.	10.000 UG/ML	1.14
25	77	434	4:50	2	0.802	A VB	12839.	10.000 UG/ML	1.14
26	82	475	5:17	2	0.878	A BV	20768.	10.000 UG/ML	1.14
27	139	484	5:23	2	0.895	A BV	5516.	10.000 UG/ML	1.14
28	107	506	5:38	2	0.935	A BB	7096.	10.000 UG/ML	1.14
29	93	520	5:47	2	0.961	A BV	14580.	10.000 UG/ML	1.14
30	162	526	5:51	2	0.972	A BB	8180.	10.000 UG/ML	1.14
31	180	535	5:57	2	0.989	A BB	9662.	10.000 UG/ML	1.14
32	128	544	6:03	2	1.006	A BB	30558.	10.000 UG/ML	1.14
33	127	563	6:16	2	1.041	A BB	12708.	10.000 UG/ML	1.14
34	225	571	6:21	2	1.055	A BB	4840.	10.000 UG/ML	1.14
35	107	659	7:20	2	1.218	A BB	8456.	10.000 UG/ML	1.14
36	142	662	7:22	2	1.224	qedt (2)	23441.	10.000 UG/ML	1.14
37	237	692	7:42	3	0.824	A BB	5288.	10.000 UG/ML	1.14
38	196	718	7:59	3	0.855	A BV	5258.	10.000 UG/ML	1.14
39	196	724	8:03	3	0.862	A VB	6382.	10.000 UG/ML	1.14
40	162	744	8:17	3	0.886	A BB	18852.	10.000 UG/ML	1.14
41	163	815	9:04	3	0.970	A BB	20216.	10.000 UG/ML	1.14
42	152	813	9:03	3	0.968	A BB	28168.	10.000 UG/ML	1.14
43	165	820	9:07	3	0.976	A BB	4408.	10.000 UG/ML	1.14
44	153	845	9:24	3	1.006	A BB	18346.	10.000 UG/ML	1.14
45	168	877	9:45	3	1.044	A BB	26008.	10.000 UG/ML	1.14
46	165	889	9:53	3	1.058	A BB	5460.	10.000 UG/ML	1.14
47	149	943	10:29	3	1.123	A BB	20908.	10.000 UG/ML	1.14
48	166	936	10:25	3	1.114	A BB	20124.	10.000 UG/ML	1.14
49	204	948	10:33	3	1.129	A BB	9610.	10.000 UG/ML	1.14
50	169	971	10:48	4	0.884	A BV	15016.	10.000 UG/ML	1.14

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:49	1.00	0.800	1.00	10.00	10.00	0.446	0.446	1.00
8	8:11	1.00	0.875	1.00	10.00	10.00	1.252	1.252	1.00
9	15:32	1.00	0.891	1.00	10.00	10.00	0.932	0.932	1.00
10	4:07	1.00	1.057	1.00	10.00	10.00	0.832	0.832	1.00
11	1:12	1.01	0.309	1.01	10.00	10.00	0.952	0.952	1.00
12	3:27	1.00	0.886	1.00	10.00	10.00	1.947	1.947	1.00
13	3:33	0.99	0.911	0.99	10.00	10.00	1.699	1.699	1.00
14	3:36	1.00	0.926	1.00	10.00	10.00	1.336	1.336	1.00
15	3:36	1.00	0.926	1.00	10.00	10.00	1.386	1.386	1.00
16	3:48	1.00	0.974	1.00	10.00	10.00	1.515	1.515	1.00
17	3:55	1.00	1.006	1.00	10.00	10.00	1.580	1.580	1.00
18	4:13	0.99	1.083	0.99	10.00	10.00	0.702	0.702	1.00
19	4:08	1.00	1.063	1.00	10.00	10.00	1.475	1.475	1.00
20	4:27	1.00	1.143	1.00	10.00	10.00	0.998	0.998	1.00
21	4:26	1.00	1.140	1.00	10.00	10.00	2.393	2.393	1.00
22	4:44	1.00	1.217	1.00	10.00	10.00	1.049	1.049	1.00
23	4:40	1.00	1.200	1.00	10.00	10.00	0.819	0.819	1.00
24	4:39	1.00	1.194	1.00	10.00	10.00	0.665	0.665	1.00
25	4:51	1.00	0.806	1.00	10.00	10.00	0.423	0.423	1.00
26	5:19	0.99	0.884	0.99	10.00	10.00	0.685	0.685	1.00
27	5:24	1.00	0.896	1.00	10.00	10.00	0.182	0.182	1.00
28	5:39	1.00	0.939	1.00	10.00	10.00	0.234	0.234	1.00
29	5:48	1.00	0.965	1.00	10.00	10.00	0.481	0.481	1.00
30	5:52	1.00	0.974	1.00	10.00	10.00	0.270	0.270	1.00
31	5:57	1.00	0.989	1.00	10.00	10.00	0.319	0.319	1.00
32	6:04	1.00	1.007	1.00	10.00	10.00	1.008	1.008	1.00
33	6:16	1.00	1.043	1.00	10.00	10.00	0.419	0.419	1.00
34	6:22	1.00	1.057	1.00	10.00	10.00	0.160	0.160	1.00
35	7:20	1.00	1.220	1.00	10.00	10.00	0.279	0.279	1.00
36	7:22	1.00	1.226	1.00	10.00	10.00	0.773	0.773	1.00
37	7:42	1.00	0.824	1.00	10.00	10.00	0.329	0.329	1.00
38	8:00	1.00	0.856	1.00	10.00	10.00	0.327	0.327	1.00
39	8:03	1.00	0.862	1.00	10.00	10.00	0.397	0.397	1.00
40	8:17	1.00	0.887	1.00	10.00	10.00	1.172	1.172	1.00
41	9:06	1.00	0.974	1.00	10.00	10.00	1.257	1.257	1.00
42	9:03	1.00	0.969	1.00	10.00	10.00	1.751	1.751	1.00
43	9:09	1.00	0.980	1.00	10.00	10.00	0.274	0.274	1.00
44	9:25	1.00	1.007	1.00	10.00	10.00	1.140	1.140	1.00
45	9:46	1.00	1.045	1.00	10.00	10.00	1.617	1.617	1.00
46	9:55	1.00	1.061	1.00	10.00	10.00	0.339	0.339	1.00
47	10:31	1.00	1.126	1.00	10.00	10.00	1.300	1.300	1.00
48	10:26	1.00	1.117	1.00	10.00	10.00	1.251	1.251	1.00
49	10:33	1.00	1.130	1.00	10.00	10.00	0.597	0.597	1.00
50	10:50	1.00	0.886	1.00	10.00	10.00	0.568	0.568	1.00

Quantitation Report File: ST16980827A

Data: ST16980827A.TI

08/27/98 9:56:00

Sample: SST0010 10UG/ML CALI VI 070698D

Conds.: INST. ID: F16

Formula: 1UL INJ. Instrument: F16

Submitted by: QES Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
51	C620 AZOBENZENE	77 S4# 20	103-33-3
52	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
53	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
54	C640 PHENANTHRENE	178 S4# 65	85-01-8
55	C645 ANTHRACENE	178 S4# 70	120-12-7
56	C647 CARBAZOLE	167 S4# 80	86-74-8
57	C650 DI-N-BUTYLPHthalate	149 S4# 85	84-74-2
58	C655 FLUORANTHENE	202 S4#110CC	206-44-0
59	C715 PYRENE	202 S5# 15	129-00-0
60	C720 BUTYLBENZYLPHthalate	149 S5# 40	85-68-7
61	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
62	C740 CHRYSENE	228 S5# 60	218-01-9
63	C745 BIS(2-ETHYLNEXYL)PHTHA	149 S5# 65	117-81-7
64	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
65	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
66	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
67	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
68	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
69	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
70	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	77	974	10:50	4	0.887	A BB	30384.	10.000 UG/ML	1.14
52	248	1032	11:29	4	0.940	A BB	5922.	10.000 UG/ML	1.14
53	284	1030	11:27	4	0.938	A BB	7204.	10.000 UG/ML	1.14
54	178	1102	12:15	4	1.004	A BV	26864.	10.000 UG/ML	1.14
55	178	1111	12:21	4	1.012	A VB	26934.	10.000 UG/ML	1.14
56	167	1149	12:47	4	1.046	A BB	24164.	10.000 UG/ML	1.14
57	149	1238	13:46	4	1.128	A BB	32570.	10.000 UG/ML	1.14
58	202	1310	14:34	4	1.193	A BB	26774.	10.000 UG/ML	1.14
59	202	1346	14:58	5	0.860	A BB	28050.	10.000 UG/ML	1.14
60	149	1499	16:40	5	0.958	A BB	13618.	10.000 UG/ML	1.14
61	228	1564	17:24	5	0.999	A BV	24540.	10.000 UG/ML	1.14
62	228	1569	17:27	5	1.003	A VB	23974.	10.000 UG/ML	1.14
63	149	1616	17:58	5	1.033	A BB	18824.	10.000 UG/ML	1.14
64	149	1726	19:12	6	0.960	A BB	31870.	10.000 UG/ML	1.14
65	252	1740	19:21	6	0.968	A BV	25726.	10.000 UG/ML	1.14
66	252	1744	19:24	6	0.971	A VB	23064.	10.000 UG/ML	1.14
67	252	1787	19:53	6	0.994	A BV	22740.	10.000 UG/ML	1.14
68	276	1942	21:36	6	1.081	A BV	24388.	10.000 UG/ML	1.14
69	278	1949	21:41	6	1.085	A VB	24406.	10.000 UG/ML	1.14
70	276	1973	21:57	6	1.098	A BB	26073.	10.000 UG/ML	1.14

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	10:51	1.00	0.888	1.00	10.00	10.00	1.150	1.150	1.00
52	11:29	1.00	0.940	1.00	10.00	10.00	0.224	0.224	1.00
53	11:29	1.00	0.939	1.00	10.00	10.00	0.273	0.273	1.00
54	12:17	1.00	1.005	1.00	10.00	10.00	1.017	1.017	1.00
55	12:22	1.00	1.012	1.00	10.00	10.00	1.019	1.019	1.00
56	12:47	1.00	1.046	1.00	10.00	10.00	0.914	0.914	1.00
57	13:47	1.00	1.127	1.00	10.00	10.00	1.233	1.233	1.00
58	14:36	1.00	1.194	1.00	10.00	10.00	1.013	1.013	1.00
59	15:00	1.00	0.861	1.00	10.00	10.00	1.209	1.209	1.00
60	16:41	1.00	0.958	1.00	10.00	10.00	0.587	0.587	1.00
61	17:24	1.00	0.999	1.00	10.00	10.00	1.058	1.058	1.00
62	17:28	1.00	1.003	1.00	10.00	10.00	1.034	1.034	1.00
63	17:58	1.00	1.032	1.00	10.00	10.00	0.812	0.812	1.00
64	19:13	1.00	0.961	1.00	10.00	10.00	1.637	1.637	1.00
65	19:23	1.00	0.969	1.00	10.00	10.00	1.322	1.322	1.00
66	19:26	1.00	0.972	1.00	10.00	10.00	1.185	1.185	1.00
67	19:54	1.00	0.996	1.00	10.00	10.00	1.168	1.168	1.00
68	21:38	1.00	1.082	1.00	10.00	10.00	1.253	1.253	1.00
69	21:43	1.00	1.086	1.00	10.00	10.00	1.254	1.254	1.00
70	21:59	1.00	1.100	1.00	10.00	10.00	1.339	1.339	1.00

MANUAL EDIT CODES

1. PEAK NOT FOUND
2. POOR CHROMATOGRAPH
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
REVIEWED, DATED, AND COINITIALED

SCANS 640 TO 679

DATA: ST16980827A #1
CALI: ST16980827A #3

MASS CHROMATOGRAMS

08/27/98 9:56:00

SAMPLE: SST0010 10UG/ML CALI VI 0706980

COND.: INST. ID: F16

RANGE: G 1.2158 LABEL: N 2.2.0 QUAN: A 6.2.0 J 0 BASE: U 20. 3

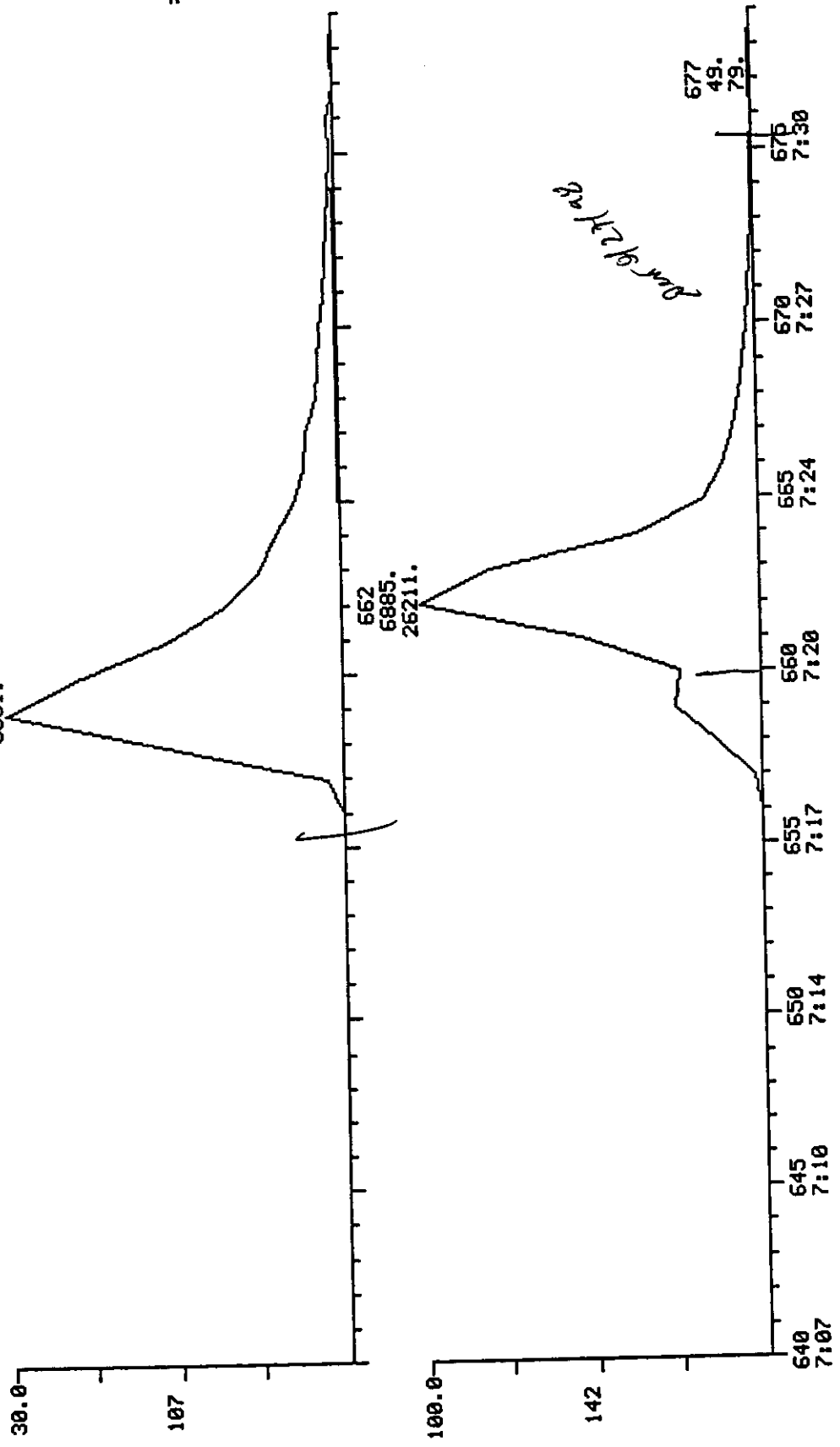
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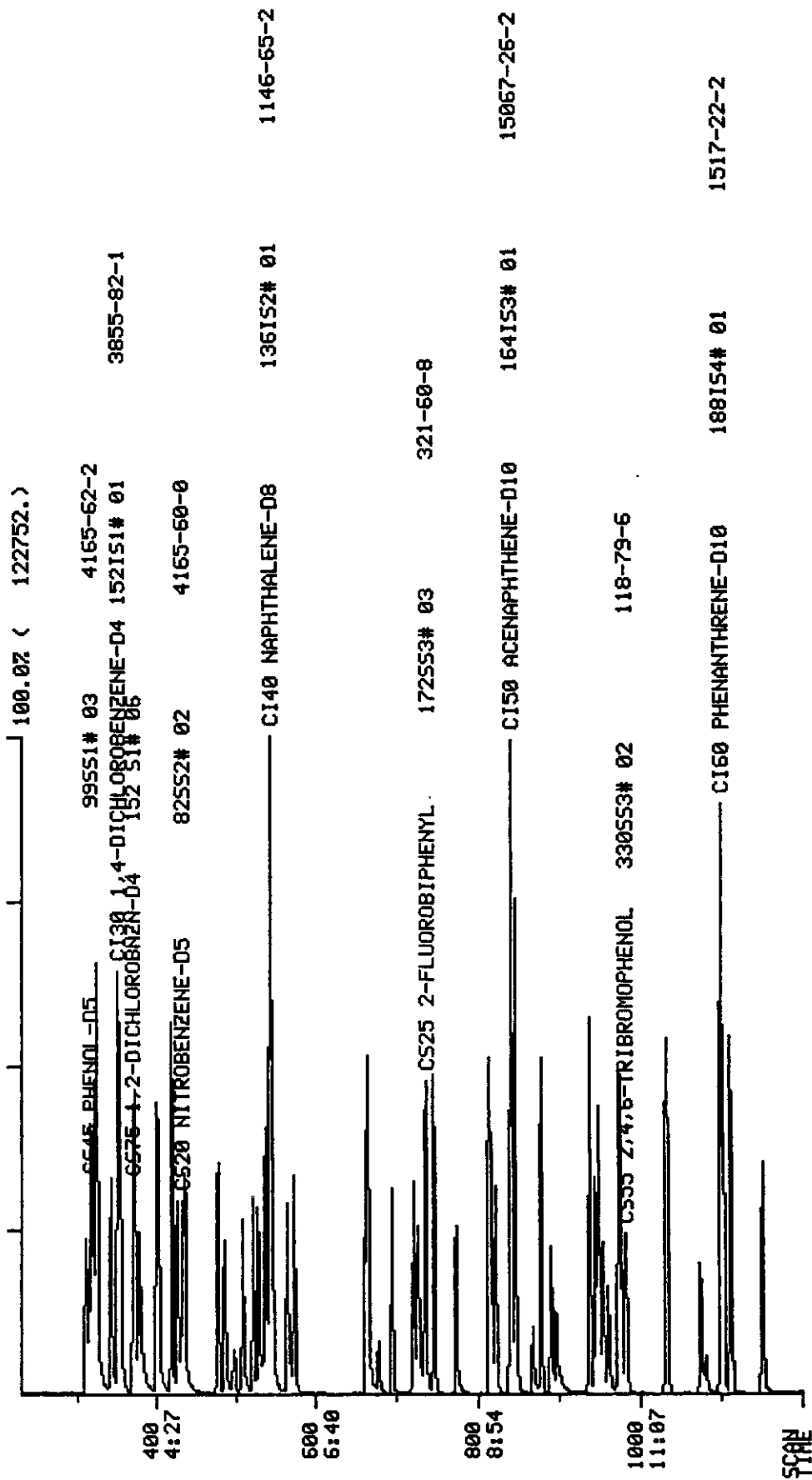
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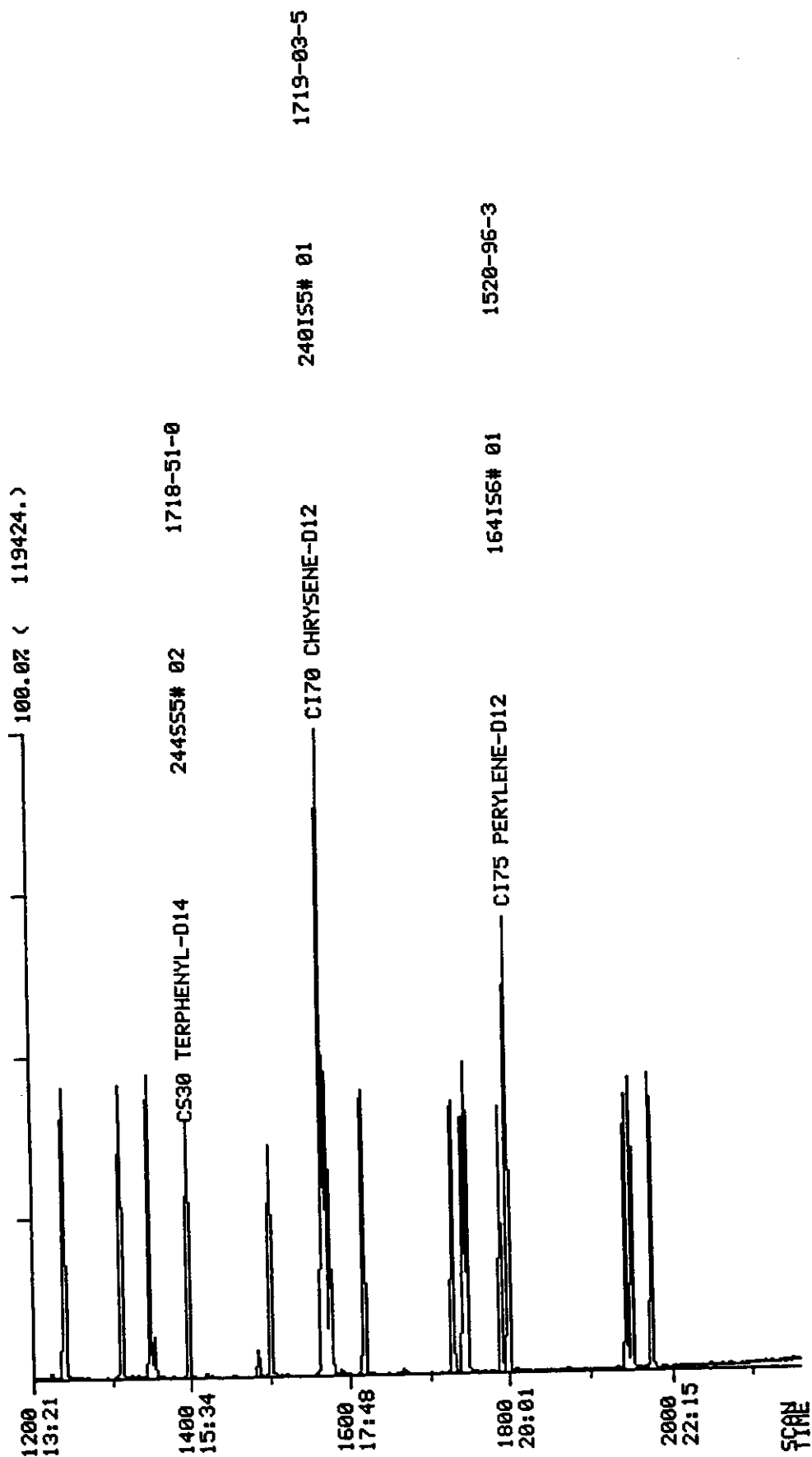


14.70

DATA FROM FILE: ST16980827B SCANS 230 TO 1200 ACQUIRED: 08/27/98 10:21:00
 CALI: ST16980827B #3
 SAMPLE: SST0020 20UG/ML CALI U 070698E
 CONDS.: INST. ID: F15



DATA FROM FILE: ST169808278 SCANS 1200 TO 2158 ACQUIRED: 08/27/98 10:21:00
 SAMPLE: SST0020 20UG/ML CALI U 070698E
 COND.: INST. ID: F16



Quantitation Report File: ST16980827B

Data: ST16980827B.TI

08/27/98 10:21:00

Sample: SST020 20UG/ML CALI V 070698E

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS45 PHENOL-D5	99SS1# 03	4165-62-2
11	CS50 2-FLUOROPHENOL	112SS1# 02	367-12-4
12	CS55 2,4,6-TRIBROMOPHENOL	330SS3# 02	118-79-6
13	CS70 2-CHLOROPHENOL-D4	132 S1# 05	
14	CS75 1,2-DICHLOROBENZENE-D4	152 S1# 06	
15	HEXACHLOROBENZENE-C13		
16	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
17	C320 ANILINE	93 S1#100	62-53-3
18	C315 PHENOL	94 S1#105CC	108-95-2
19	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
20	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
21	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
22	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
23	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
24	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
25	C355 2-METHYLPHENOL	108 S1#160	95-48-7
26	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
27	C365 4-METHYLPHENOL	108 S1#185	106-44-5
28	C370 N-NITROSO-DI-N-PROPYLAM	70 S1#190SP	621-64-7
29	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
30	C410 NITROBENZENE	77 S2# 10	98-95-3
31	C415 ISOPHORONE	82 S2# 20	75-59-1
32	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
33	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
34	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
35	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
36	C430 BENZOIC ACID	122 S2# 45	65-85-0
37	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
38	C450 NAPHTHALENE	128 S2# 60	91-20-3
39	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
40	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
41	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
42	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
43	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
44	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
45	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
46	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
47	C530 2-NITROANILINE	65 S3# 45	88-74-4

1482

No	Name		
48	C535 DIMETHYLPHTHALATE	163 S3# 55	131-11-3
49	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
50	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	350	3:54	1	1.000	A BB	34646.	40.000 UG/ML	2.22
2	136	541	6:01	2	1.000	A BB	125585.	40.000 UG/ML	2.22
3	164	840	9:21	3	1.000	A BB	68486.	40.000 UG/ML	2.22
4	188	1099	12:13	4	1.000	A BV	117544.	40.000 UG/ML	2.22
5	240	1565	17:24	5	1.000	A BB	91058.	40.000 UG/ML	2.22
6	264	1797	19:59	6	1.000	A BB	75628.	40.000 UG/ML	2.22
7	82	432	4:48	2	0.799	A BV	31049.	20.000 UG/ML	1.11
8	172	734	8:10	3	0.874	A BB	45046.	20.000 UG/ML	1.11
9	244	1395	15:31	5	0.891	A BV	45608.	20.000 UG/ML	1.11
10	99	315	3:30	1	0.900	A BB	35638.	20.000 UG/ML	1.11
11	112	204	2:16	1	0.583	A BB	22364.	20.000 UG/ML	1.11
12	330	980	10:54	3	1.167	A BB	8930.	20.000 UG/ML	1.11
13	132	321	3:34	1	0.917	A BV	27038.	20.000 UG/ML	1.11
14	152	369	4:06	1	1.054	A BB	17300.	20.000 UG/ML	1.11
15	NOT FOUND								
16	74	109	1:13	1	0.311	A BB	17503.	20.000 UG/ML	1.11
17	93	310	3:27	1	0.886	A BV	34446.	20.000 UG/ML	1.11
18	94	317	3:32	1	0.906	A VB	35279.	20.000 UG/ML	1.11
19	93	323	3:36	1	0.923	A VB	25381.	20.000 UG/ML	1.11
20	128	323	3:36	1	0.923	A BB	27177.	20.000 UG/ML	1.11
21	146	341	3:48	1	0.974	A BV	28889.	20.000 UG/ML	1.11
22	146	352	3:55	1	1.006	A VB	29367.	20.000 UG/ML	1.11
23	108	377	4:12	1	1.077	A BB	14744.	20.000 UG/ML	1.11
24	146	371	4:08	1	1.060	A BB	27815.	20.000 UG/ML	1.11
25	108	399	4:26	1	1.140	A BB	20889.	20.000 UG/ML	1.11
26	45	399	4:26	1	1.140	A BB	46351.	20.000 UG/ML	1.11
27	108	425	4:44	1	1.214	A BB	22478.	20.000 UG/ML	1.11
28	70	418	4:39	1	1.194	A BV	16174.	20.000 UG/ML	1.11
29	117	418	4:39	1	1.194	A BB	12820.	20.000 UG/ML	1.11
30	77	434	4:50	2	0.802	A VB	29943.	20.000 UG/ML	1.11
31	82	476	5:18	2	0.880	A BV	48830.	20.000 UG/ML	1.11
32	139	484	5:23	2	0.895	A BB	13326.	20.000 UG/ML	1.11
33	107	506	5:38	2	0.935	A BB	19411.	20.000 UG/ML	1.11
34	93	520	5:47	2	0.961	A BV	33193.	20.000 UG/ML	1.11
35	162	526	5:51	2	0.972	A BB	19655.	20.000 UG/ML	1.11
36	122	542	6:02	2	1.002	qedt ②	16146.	20.000 UG/ML	1.11
37	180	535	5:57	2	0.989	A BB	21964.	20.000 UG/ML	1.11
38	128	544	6:03	2	1.006	A BB	68435.	20.000 UG/ML	1.11
39	127	563	6:16	2	1.041	A BB	29283.	20.000 UG/ML	1.11
40	225	571	6:21	2	1.055	A BB	11206.	20.000 UG/ML	1.11
41	107	659	7:20	2	1.218	A BB	21143.	20.000 UG/ML	1.11
42	142	662	7:22	2	1.224	qedt ②	52750.	20.000 UG/ML	1.11
43	237	692	7:42	3	0.824	A BB	13238.	20.000 UG/ML	1.11
44	196	718	7:59	3	0.855	A BV	13337.	20.000 UG/ML	1.11
45	196	724	8:03	3	0.862	A VB	14963.	20.000 UG/ML	1.11
46	162	744	8:17	3	0.886	A BB	43660.	20.000 UG/ML	1.11
47	65	772	8:35	3	0.919	A BV	16816.	20.000 UG/ML	1.11
48	163	816	9:05	3	0.971	A BB	48724.	20.000 UG/ML	1.11
49	152	813	9:03	3	0.968	A BB	67074.	20.000 UG/ML	1.11
50	165	821	9:08	3	0.977	A BB	11592.	20.000 UG/ML	1.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:49	1.00	0.800	1.00	20.00	20.00	0.494	0.494	1.00
8	8:11	1.00	0.875	1.00	20.00	20.00	1.315	1.315	1.00
9	15:32	1.00	0.891	1.00	20.00	20.00	1.002	1.002	1.00
10	3:32	0.99	0.906	0.99	20.00	20.00	2.057	2.057	1.00
11	2:15	1.00	0.580	1.00	20.00	20.00	1.291	1.291	1.00
12	10:55	1.00	1.168	1.00	20.00	20.00	0.261	0.261	1.00
13	3:34	1.00	0.917	1.00	20.00	20.00	1.561	1.561	1.00
14	4:07	1.00	1.057	1.00	20.00	20.00	0.999	0.999	1.00
15	12:39		0.941						
16	1:12	1.01	0.309	1.01	20.00	20.00	1.010	1.010	1.00
17	3:27	1.00	0.886	1.00	20.00	20.00	1.988	1.988	1.00
18	3:33	0.99	0.911	0.99	20.00	20.00	2.037	2.037	1.00
19	3:36	1.00	0.926	1.00	20.00	20.00	1.465	1.465	1.00
20	3:36	1.00	0.926	1.00	20.00	20.00	1.569	1.569	1.00
21	3:48	1.00	0.974	1.00	20.00	20.00	1.668	1.668	1.00
22	3:55	1.00	1.006	1.00	20.00	20.00	1.695	1.695	1.00
23	4:13	0.99	1.083	0.99	20.00	20.00	0.851	0.851	1.00
24	4:08	1.00	1.063	1.00	20.00	20.00	1.606	1.606	1.00
25	4:27	1.00	1.143	1.00	20.00	20.00	1.206	1.206	1.00
26	4:26	1.00	1.140	1.00	20.00	20.00	2.676	2.676	1.00
27	4:44	1.00	1.217	1.00	20.00	20.00	1.298	1.298	1.00
28	4:40	1.00	1.200	1.00	20.00	20.00	0.934	0.934	1.00
29	4:39	1.00	1.194	1.00	20.00	20.00	0.740	0.740	1.00
30	4:51	1.00	0.806	1.00	20.00	20.00	0.477	0.477	1.00
31	5:19	1.00	0.884	1.00	20.00	20.00	0.778	0.778	1.00
32	5:24	1.00	0.896	1.00	20.00	20.00	0.212	0.212	1.00
33	5:39	1.00	0.939	1.00	20.00	20.00	0.309	0.309	1.00
34	5:48	1.00	0.965	1.00	20.00	20.00	0.529	0.529	1.00
35	5:52	1.00	0.974	1.00	20.00	20.00	0.313	0.313	1.00
36	6:10	0.98	1.024	0.98	20.00	20.00	0.257	0.257	1.00
37	5:57	1.00	0.989	1.00	20.00	20.00	0.350	0.350	1.00
38	6:04	1.00	1.007	1.00	20.00	20.00	1.090	1.090	1.00
39	6:16	1.00	1.043	1.00	20.00	20.00	0.466	0.466	1.00
40	6:22	1.00	1.057	1.00	20.00	20.00	0.178	0.178	1.00
41	7:20	1.00	1.220	1.00	20.00	20.00	0.337	0.337	1.00
42	7:22	1.00	1.226	1.00	20.00	20.00	0.840	0.840	1.00
43	7:42	1.00	0.824	1.00	20.00	20.00	0.387	0.387	1.00
44	8:00	1.00	0.856	1.00	20.00	20.00	0.389	0.389	1.00
45	8:03	1.00	0.862	1.00	20.00	20.00	0.437	0.437	1.00
46	8:17	1.00	0.887	1.00	20.00	20.00	1.275	1.275	1.00
47	8:37	1.00	0.921	1.00	20.00	20.00	0.491	0.491	1.00
48	9:06	1.00	0.974	1.00	20.00	20.00	1.423	1.423	1.00
49	9:03	1.00	0.969	1.00	20.00	20.00	1.959	1.959	1.00
50	9:09	1.00	0.980	1.00	20.00	20.00	0.339	0.339	1.00

Quantitation Report File: ST16980827B

Data: ST16980827B.TI

08/27/98 10:21:00

Sample: SST020 20UG/ML CALI V 070698E

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
51	C545 3-NITROANILINE	138 S3# 75	99-09-2
52	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
53	C555 2,4-DINITROPHENOL	184 S3# 85SP	51-28-5
54	C565 DIBENZOFURAN	168 S3# 90	132-64-9
55	C560 4-NITROPHENOL	109 S3# 95SP	100-02-7
56	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
57	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2
58	C590 FLUORENE	166 S3#135	86-73-7
59	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
60	C595 4-NITROANALINE	138 S3#150	100-01-6
61	C610 4,6-DINITRO-2-METHYLPH	198 S4# 10	534-52-1
62	C615 N-NITROSODIPHENYLAMINE	169 S4# 15CC	87-30-6
63	C620 AZOBENZENE	77 S4# 20	103-33-3
64	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
65	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
66	C635 PENTACHLOROPHENOL	266 S4# 50	87-86-5
67	C640 PHENANTHRENE	178 S4# 65	85-01-8
68	C645 ANTHRACENE	178 S4# 70	120-12-7
69	C647 CARBAZOLE	167 S4# 80	86-74-8
70	C650 DI-N-BUTYLPHTHALATE	149 S4# 85	84-74-2
71	C655 FLUORANTHENE	202 S4#110CC	206-44-0
72	C710 BENZIDINE	184 S5# 10	92-81-5
73	C715 PYRENE	202 S5# 15	129-00-0
74	C720 BUTYLBENZYLPHTHALATE	149 S5# 40	85-68-7
75	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
76	C725 3,3'-DICHLOROBENZIDINE	252 S5# 55	91-94-1
77	C740 CHRYSENE	228 S5# 60	218-01-9
78	C745 BIS(2-ETHYLHEXYL)PHTHA	149 S5# 65	117-81-7
79	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
80	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
81	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
82	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
83	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
84	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
85	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	138	846	9:25	3	1.007	A BB	13084.	20.000 UG/ML	1.11
52	153	845	9:24	3	1.006	A BB	42016.	20.000 UG/ML	1.11
53	184	866	9:38	3	1.031	A BV	5334.	20.000 UG/ML	1.11
54	168	877	9:45	3	1.044	A BB	61028.	20.000 UG/ML	1.11
55	109	895	9:57	3	1.065	A BB	5627.	20.000 UG/ML	1.11
56	165	889	9:53	3	1.058	A BB	14108.	20.000 UG/ML	1.11
57	149	944	10:30	3	1.124	A BB	50078.	20.000 UG/ML	1.11
58	166	937	10:25	3	1.115	A BV	47880.	20.000 UG/ML	1.11

1485

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
59	204	948	10:33	3	1.129	A BB	22148.	20.000 UG/ML	1.11
60	138	953	10:36	3	1.135	A BB	11167.	20.000 UG/ML	1.11
61	198	959	10:40	4	0.873	A BV	7140.	20.000 UG/ML	1.11
62	169	972	10:49	4	0.884	A BV	34182.	20.000 UG/ML	1.11
63	77	975	10:51	4	0.887	A BB	71792.	20.000 UG/ML	1.11
64	248	1032	11:29	4	0.939	A BB	13566.	20.000 UG/ML	1.11
65	284	1031	11:28	4	0.938	A BB	16534.	20.000 UG/ML	1.11
66	266	1073	11:56	4	0.976	A BB	8694.	20.000 UG/ML	1.11
67	178	1102	12:15	4	1.003	A BV	63550.	20.000 UG/ML	1.11
68	178	1111	12:21	4	1.011	A VB	64657.	20.000 UG/ML	1.11
69	167	1149	12:47	4	1.045	A BB	44833.	20.000 UG/ML	1.11
70	149	1238	13:46	4	1.126	A BB	80264.	20.000 UG/ML	1.11
71	202	1310	14:34	4	1.192	A BB	59268.	20.000 UG/ML	1.11
72	184	1352	15:02	5	0.864	A BB	7046.	20.000 UG/ML	1.11
73	202	1347	14:59	5	0.861	A BB	59638.	20.000 UG/ML	1.11
74	149	1499	16:40	5	0.958	A BB	30622.	20.000 UG/ML	1.11
75	228	1564	17:24	5	0.999	A BV	54385.	20.000 UG/ML	1.11
76	252	1574	17:30	5	1.006	A BB	20062.	20.000 UG/ML	1.11
77	228	1569	17:27	5	1.003	A VB	48636.	20.000 UG/ML	1.11
78	149	1615	17:58	5	1.032	A BB	44542.	20.000 UG/ML	1.11
79	149	1726	19:12	6	0.960	A BB	74084.	20.000 UG/ML	1.11
80	252	1740	19:21	6	0.968	A BV	58084.	20.000 UG/ML	1.11
81	252	1745	19:25	6	0.971	A VB	46263.	20.000 UG/ML	1.11
82	252	1787	19:53	6	0.994	A BV	47524.	20.000 UG/ML	1.11
83	276	1943	21:37	6	1.081	A BV	51246.	20.000 UG/ML	1.11
84	278	1950	21:41	6	1.085	A BB	52402.	20.000 UG/ML	1.11
85	276	1974	21:57	6	1.098	A BB	54312.	20.000 UG/ML	1.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amt	Amt(L)	R.Fac	R.Fac(L)	Ratio
51	9:26	1.00	1.010	1.00	20.00	20.00	0.382	0.382	1.00
52	9:25	1.00	1.007	1.00	20.00	20.00	1.227	1.227	1.00
53	9:39	1.00	1.032	1.00	20.00	20.00	0.156	0.156	1.00
54	9:46	1.00	1.045	1.00	20.00	20.00	1.782	1.782	1.00
55	9:59	1.00	1.068	1.00	20.00	20.00	0.164	0.164	1.00
56	9:55	1.00	1.061	1.00	20.00	20.00	0.412	0.412	1.00
57	10:31	1.00	1.126	1.00	20.00	20.00	1.462	1.462	1.00
58	10:26	1.00	1.117	1.00	20.00	20.00	1.398	1.398	1.00
59	10:33	1.00	1.130	1.00	20.00	20.00	0.647	0.647	1.00
60	10:39	1.00	1.139	1.00	20.00	20.00	0.326	0.326	1.00
61	10:42	1.00	0.875	1.00	20.00	20.00	0.121	0.121	1.00
62	10:50	1.00	0.886	1.00	20.00	20.00	0.582	0.582	1.00
63	10:51	1.00	0.888	1.00	20.00	20.00	1.222	1.222	1.00
64	11:29	1.00	0.940	1.00	20.00	20.00	0.231	0.231	1.00
65	11:29	1.00	0.939	1.00	20.00	20.00	0.281	0.281	1.00
66	11:57	1.00	0.977	1.00	20.00	20.00	0.148	0.148	1.00
67	12:17	1.00	1.005	1.00	20.00	20.00	1.081	1.081	1.00
68	12:22	1.00	1.012	1.00	20.00	20.00	1.100	1.100	1.00
69	12:47	1.00	1.046	1.00	20.00	20.00	0.763	0.763	1.00
70	13:47	1.00	1.127	1.00	20.00	20.00	1.366	1.366	1.00
71	14:36	1.00	1.194	1.00	20.00	20.00	1.008	1.008	1.00
72	15:03	1.00	0.864	1.00	20.00	20.00	0.155	0.155	1.00
73	15:00	1.00	0.861	1.00	20.00	20.00	1.310	1.310	1.00
74	16:41	1.00	0.958	1.00	20.00	20.00	0.673	0.673	1.00
75	17:24	1.00	0.999	1.00	20.00	20.00	1.195	1.195	1.00
76	17:31	1.00	1.006	1.00	20.00	20.00	0.441	0.441	1.00
77	17:28	1.00	1.003	1.00	20.00	20.00	1.068	1.068	1.00

1486

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	17:58	1.00	1.032	1.00	20.00	20.00	0.978	0.978	1.00
79	19:13	1.00	0.961	1.00	20.00	20.00	1.959	1.959	1.00
80	19:23	1.00	0.969	1.00	20.00	20.00	1.536	1.536	1.00
81	19:26	1.00	0.972	1.00	20.00	20.00	1.223	1.223	1.00
82	19:54	1.00	0.996	1.00	20.00	20.00	1.257	1.257	1.00
83	21:38	1.00	1.082	1.00	20.00	20.00	1.355	1.355	1.00
84	21:43	1.00	1.086	1.00	20.00	20.00	1.386	1.386	1.00
85	21:59	1.00	1.100	1.00	20.00	20.00	1.436	1.436	1.00

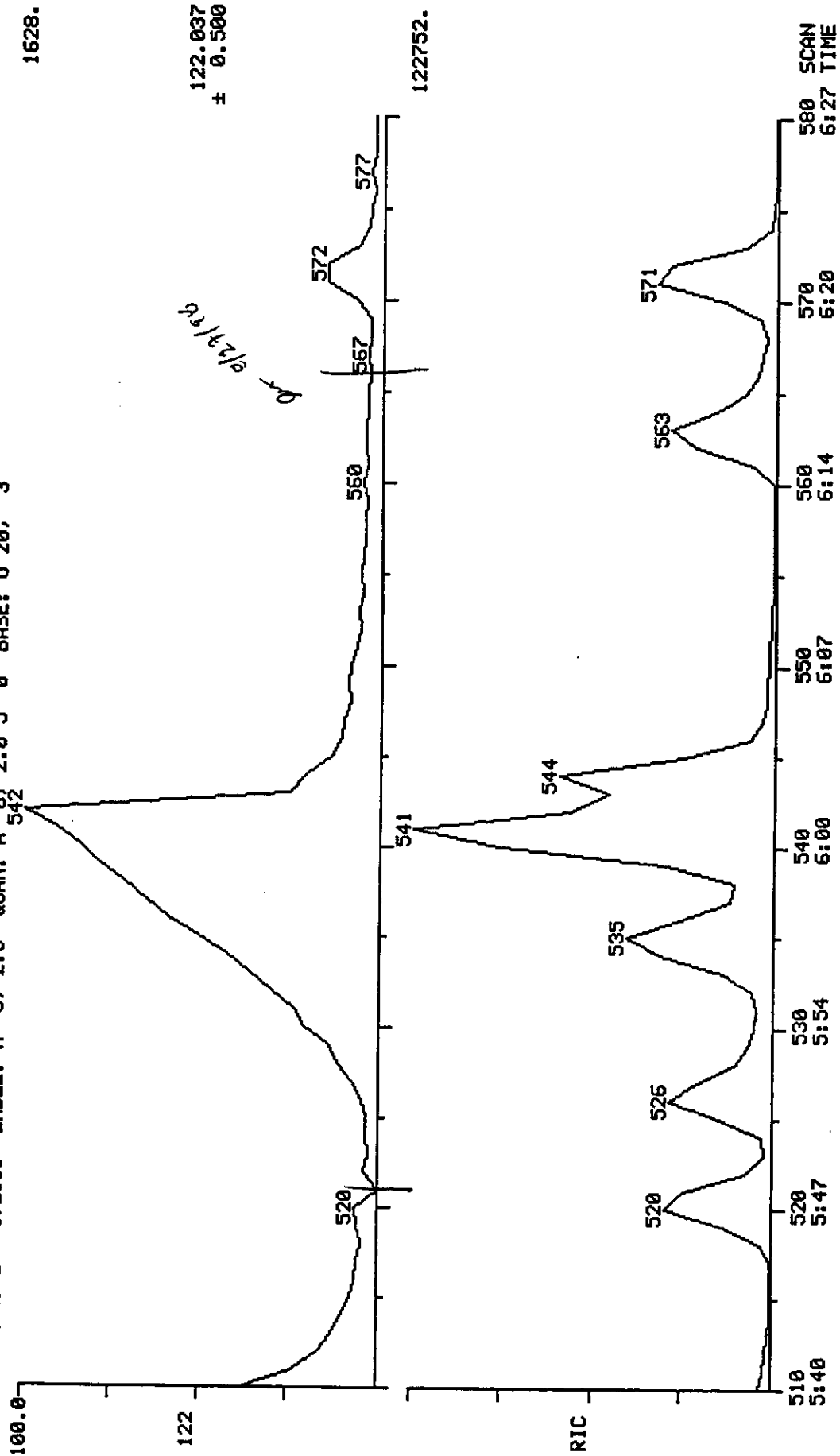
MANUAL EDIT CODES

1. PEAK NOT FOUND
2. POOR CHROMATOGRAPH.
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
 REVIEWED, DATED, AND CORRECTED

RIC+MASS CHROMATOGRAM

08/27/98 10:21:00 DATA: ST169808278 #1 SCANS 510 TO 580
 SAMPLE: SST0020 20UG/ML CALI U CALI: ST169808278 #3
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3



1488

DATA: ST16980827B #1

SCANS 650 TO 689

CALI: ST16980827B #3

08/27/98 10:21:00

20UG/ML CALI U 070698E

SAMPLE: SST0020

COND.: INST. ID: F16

RANGE: G 1.2158

QUAN: A 6, 2.0 J 0

BASE: U 20, 3

659

6603.

22425.

6608.

107.032

± 0.500

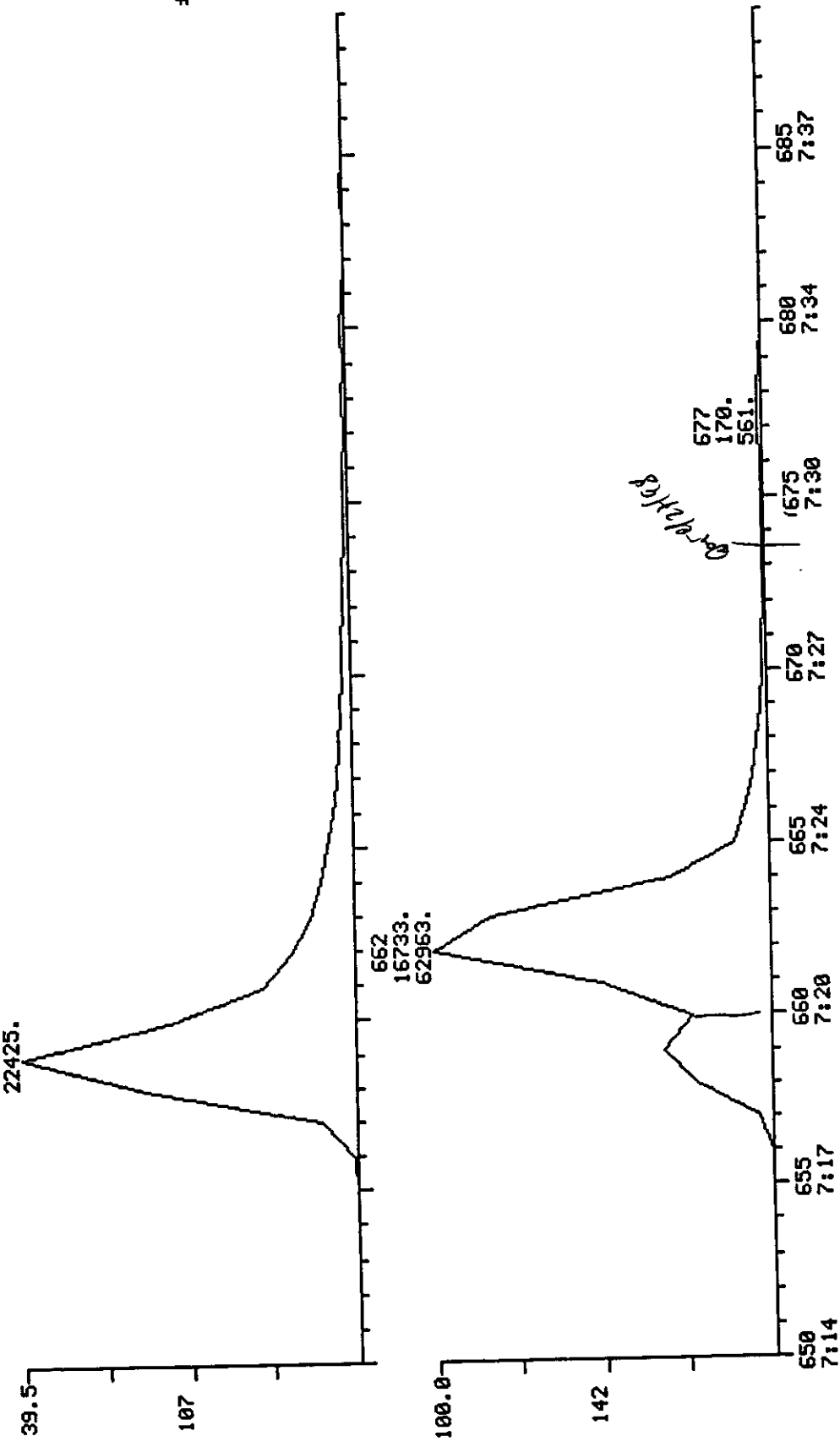
16736.

142.042

± 0.500

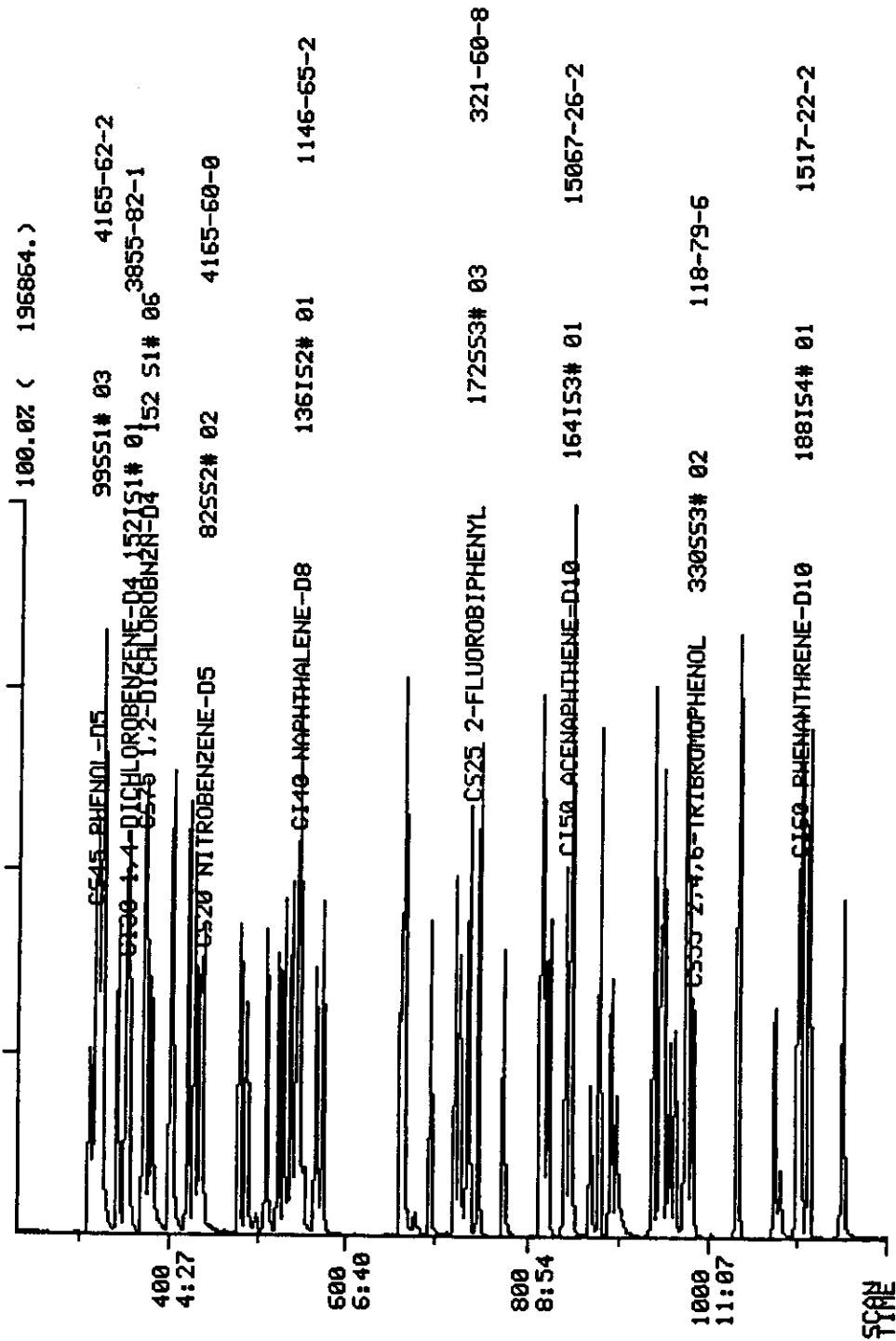
SCAN

TIME

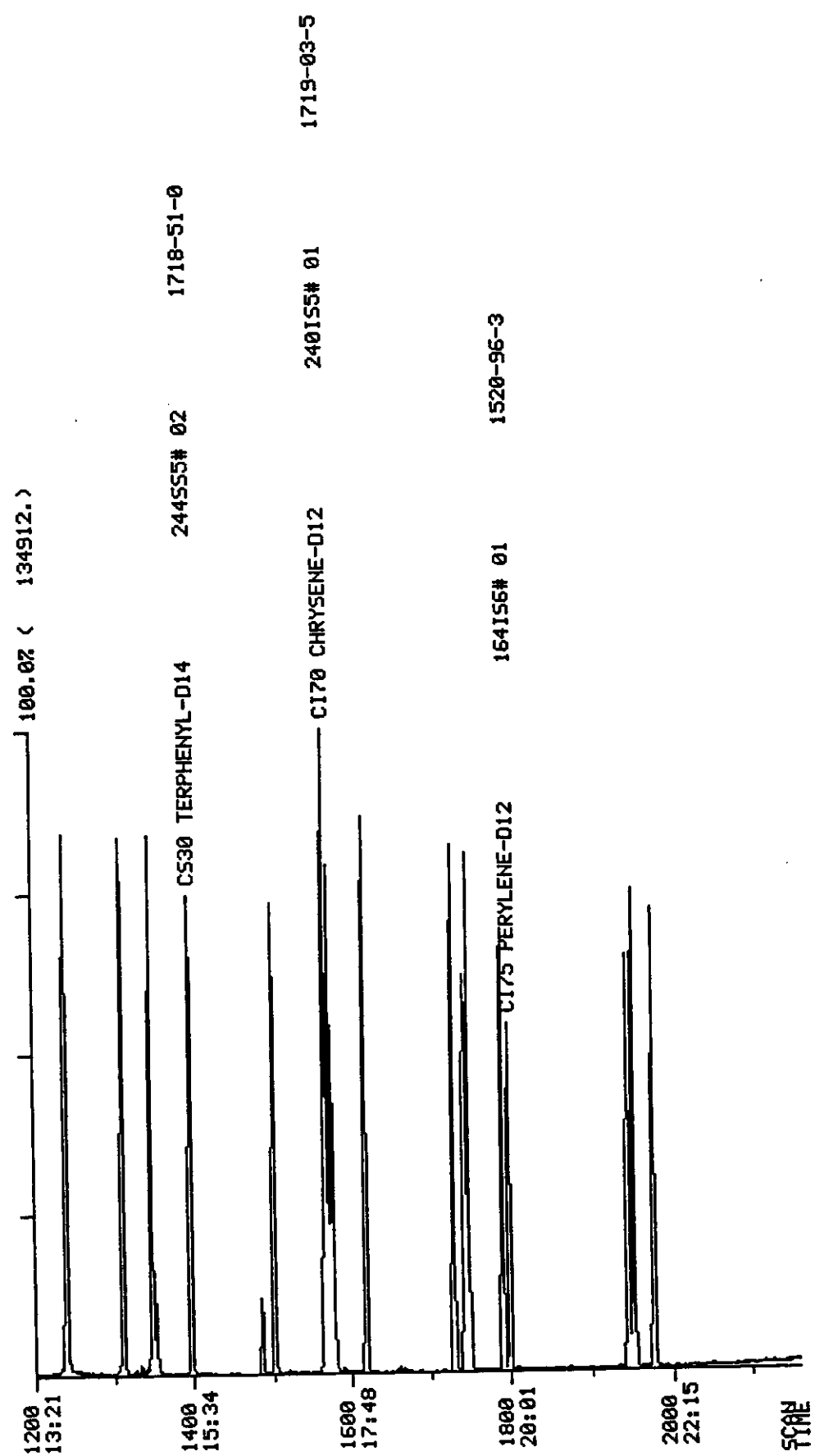


1489

DATA FROM FILE: ST15980827C SCANS 230 TO 1200 ACQUIRED: 08/27/98 10:51:00
 SAMPLE: SST0050 50UG/ML CALI IV 070659F
 COND.: INST. ID: F16



DATA FROM FILE: ST16980827C SCANS 1200 TO 2158 ACQUIRED: 08/27/98 10:51:00
 CALI: ST16980827C #3
 SAMPLE: SST0050 50UG/ML CALI IV 070698F
 CONDS.: INST. ID: F16



Data: ST16980827C.TI

08/27/98 10:51:00

Sample: SSTD050 50UG/ML CALI IV 070698F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
1	CI30 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	CI40 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	CI50 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	CI60 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	CI70 CHRYSENE-D12	240IS5# 01	1719-03-5
6	CI75 PERYLENE-D12	164IS6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS45 PHENOL-D5	99SS1# 03	4165-62-2
11	CS50 2-FLUOROPHENOL	112SS1# 02	367-12-4
12	CS55 2,4,6-TRIBROMOPHENOL	330SS3# 02	118-79-6
13	CS70 2-CHLOROPHENOL-D4	132 S1# 05	
14	CS75 1,2-DICHLOROBENZENE-D4	152 S1# 06	
15	HEXACHLOROBENZENE-C13		
16	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
17	C320 ANILINE	93 S1#100	62-53-3
18	C315 PHENOL	94 S1#105CC	108-95-2
19	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
20	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
21	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
22	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
23	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
24	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
25	C355 2-METHYLPHENOL	108 S1#160	95-48-7
26	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
27	C365 4-METHYLPHENOL	108 S1#185	106-44-5
28	C370 N-NITROSO-DI-N-PROPYLAM	70 S1#190SP	621-64-7
29	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
30	C410 NITROBENZENE	77 S2# 10	98-95-3
31	C415 ISOPHORONE	82 S2# 20	75-59-1
32	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
33	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
34	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
35	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
36	C430 BENZOIC ACID	122 S2# 45	65-85-0
37	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
38	C450 NAPHTHALENE	128 S2# 60	91-20-3
39	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
40	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
41	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
42	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
43	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
44	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
45	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
46	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
47	C530 2-NITROANILINE	65 S3# 45	88-74-4

No	Name		
48	C535 DIMETHYLPHTHALATE	163 S3# 55	131-11-3
49	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
50	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	350	3:54	1	1.000	A BB	31156.	40.000 UG/ML	0.97
2	136	541	6:01	2	1.000	A BB	114584.	40.000 UG/ML	0.97
3	164	840	9:21	3	1.000	A BB	63340.	40.000 UG/ML	0.97
4	188	1099	12:13	4	1.000	A BV	109036.	40.000 UG/ML	0.97
5	240	1566	17:25	5	1.000	A VV	77798.	40.000 UG/ML	0.97
6	264	1797	19:59	6	1.000	A BB	63787.	40.000 UG/ML	0.97
7	82	433	4:49	2	0.800	A BB	67191.	50.000 UG/ML	1.21
8	172	734	8:10	3	0.874	A BB	99214.	50.000 UG/ML	1.21
9	244	1396	15:32	5	0.891	A BB	94942.	50.000 UG/ML	1.21
10	99	316	3:31	1	0.903	A BB	80179.	50.000 UG/ML	1.21
11	112	204	2:16	1	0.583	A BB	51862.	50.000 UG/ML	1.21
12	330	981	10:55	3	1.168	A BB	18938.	50.000 UG/ML	1.21
13	132	321	3:34	1	0.917	A BB	58440.	50.000 UG/ML	1.21
14	152	370	4:07	1	1.057	A BB	36852.	50.000 UG/ML	1.21
15	NOT FOUND								
16	74	109	1:13	1	0.311	A VB	39558.	50.000 UG/ML	1.21
17	93	310	3:27	1	0.886	A BV	70664.	50.000 UG/ML	1.21
18	94	318	3:32	1	0.909	A VB	79234.	50.000 UG/ML	1.21
19	93	324	3:36	1	0.926	A VB	56008.	50.000 UG/ML	1.21
20	128	324	3:36	1	0.926	A BB	59290.	50.000 UG/ML	1.21
21	146	341	3:48	1	0.974	A BV	63015.	50.000 UG/ML	1.21
22	146	352	3:55	1	1.006	A VB	64864.	50.000 UG/ML	1.21
23	108	378	4:12	1	1.080	A BB	33967.	50.000 UG/ML	1.21
24	146	372	4:08	1	1.063	A BB	57718.	50.000 UG/ML	1.21
25	108	400	4:27	1	1.143	A BB	47563.	50.000 UG/ML	1.21
26	45	399	4:26	1	1.140	A BB	101138.	50.000 UG/ML	1.21
27	108	426	4:44	1	1.217	A BB	52789.	50.000 UG/ML	1.21
28	70	420	4:40	1	1.200	A BV	36545.	50.000 UG/ML	1.21
29	117	418	4:39	1	1.194	A BB	27750.	50.000 UG/ML	1.21
30	77	436	4:51	2	0.806	A VB	65237.	50.000 UG/ML	1.21
31	82	477	5:18	2	0.882	A BB	110794.	50.000 UG/ML	1.21
32	139	484	5:23	2	0.895	A BB	31214.	50.000 UG/ML	1.21
33	107	507	5:38	2	0.937	A BB	47890.	50.000 UG/ML	1.21
34	93	521	5:48	2	0.963	A BV	74000.	50.000 UG/ML	1.21
35	162	527	5:52	2	0.974	A BB	44945.	50.000 UG/ML	1.21
36	122	552	6:08	2	1.020	qedt(2)	39970.	50.000 UG/ML	1.21
37	180	535	5:57	2	0.989	A BB	47850.	50.000 UG/ML	1.21
38	128	545	6:04	2	1.007	A BB	148742.	50.000 UG/ML	1.21
39	127	564	6:16	2	1.043	A BB	65035.	50.000 UG/ML	1.21
40	225	572	6:22	2	1.057	A BB	24296.	50.000 UG/ML	1.21
41	107	659	7:20	2	1.218	A BB	50489.	50.000 UG/ML	1.21
42	142	663	7:22	2	1.226	qedt(2)	118484.	50.000 UG/ML	1.21
43	237	692	7:42	3	0.824	A BB	29806.	50.000 UG/ML	1.21
44	196	719	8:00	3	0.856	A BV	32070.	50.000 UG/ML	1.21
45	196	724	8:03	3	0.862	A VB	33958.	50.000 UG/ML	1.21
46	162	745	8:17	3	0.887	A BB	95618.	50.000 UG/ML	1.21
47	65	773	8:36	3	0.920	A BB	40406.	50.000 UG/ML	1.21
48	163	817	9:05	3	0.973	A BV	110200.	50.000 UG/ML	1.21
49	152	814	9:03	3	0.969	A BB	150122.	50.000 UG/ML	1.21
50	165	823	9:09	3	0.980	A BB	27004.	50.000 UG/ML	1.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:49	1.00	0.800	1.00	50.00	50.00	0.469	0.469	1.00
8	8:11	1.00	0.875	1.00	50.00	50.00	1.253	1.253	1.00
9	15:32	1.00	0.891	1.00	50.00	50.00	0.976	0.976	1.00
10	3:32	1.00	0.906	1.00	50.00	50.00	2.059	2.059	1.00
11	2:15	1.00	0.580	1.00	50.00	50.00	1.332	1.332	1.00
12	10:55	1.00	1.168	1.00	50.00	50.00	0.239	0.239	1.00
13	3:34	1.00	0.917	1.00	50.00	50.00	1.501	1.501	1.00
14	4:07	1.00	1.057	1.00	50.00	50.00	0.946	0.946	1.00
15	12:39		0.941						
16	1:12	1.01	0.309	1.01	50.00	50.00	1.016	1.016	1.00
17	3:27	1.00	0.886	1.00	50.00	50.00	1.814	1.814	1.00
18	3:33	1.00	0.911	1.00	50.00	50.00	2.035	2.035	1.00
19	3:36	1.00	0.926	1.00	50.00	50.00	1.438	1.438	1.00
20	3:36	1.00	0.926	1.00	50.00	50.00	1.522	1.522	1.00
21	3:48	1.00	0.974	1.00	50.00	50.00	1.618	1.618	1.00
22	3:55	1.00	1.006	1.00	50.00	50.00	1.666	1.666	1.00
23	4:13	1.00	1.083	1.00	50.00	50.00	0.872	0.872	1.00
24	4:08	1.00	1.063	1.00	50.00	50.00	1.482	1.482	1.00
25	4:27	1.00	1.143	1.00	50.00	50.00	1.221	1.221	1.00
26	4:26	1.00	1.140	1.00	50.00	50.00	2.597	2.597	1.00
27	4:44	1.00	1.217	1.00	50.00	50.00	1.355	1.355	1.00
28	4:40	1.00	1.200	1.00	50.00	50.00	0.938	0.938	1.00
29	4:39	1.00	1.194	1.00	50.00	50.00	0.713	0.713	1.00
30	4:51	1.00	0.806	1.00	50.00	50.00	0.455	0.455	1.00
31	5:19	1.00	0.884	1.00	50.00	50.00	0.774	0.774	1.00
32	5:24	1.00	0.896	1.00	50.00	50.00	0.218	0.218	1.00
33	5:39	1.00	0.939	1.00	50.00	50.00	0.334	0.334	1.00
34	5:48	1.00	0.965	1.00	50.00	50.00	0.517	0.517	1.00
35	5:52	1.00	0.974	1.00	50.00	50.00	0.314	0.314	1.00
36	6:10	1.00	1.024	1.00	50.00	50.00	0.279	0.279	1.00
37	5:57	1.00	0.989	1.00	50.00	50.00	0.334	0.334	1.00
38	6:04	1.00	1.007	1.00	50.00	50.00	1.038	1.038	1.00
39	6:16	1.00	1.043	1.00	50.00	50.00	0.454	0.454	1.00
40	6:22	1.00	1.057	1.00	50.00	50.00	0.170	0.170	1.00
41	7:20	1.00	1.220	1.00	50.00	50.00	0.353	0.353	1.00
42	7:22	1.00	1.226	1.00	50.00	50.00	0.827	0.827	1.00
43	7:42	1.00	0.824	1.00	50.00	50.00	0.376	0.376	1.00
44	8:00	1.00	0.856	1.00	50.00	50.00	0.405	0.405	1.00
45	8:03	1.00	0.862	1.00	50.00	50.00	0.429	0.429	1.00
46	8:17	1.00	0.887	1.00	50.00	50.00	1.208	1.208	1.00
47	8:37	1.00	0.921	1.00	50.00	50.00	0.510	0.510	1.00
48	9:06	1.00	0.974	1.00	50.00	50.00	1.392	1.392	1.00
49	9:03	1.00	0.969	1.00	50.00	50.00	1.896	1.896	1.00
50	9:09	1.00	0.980	1.00	50.00	50.00	0.341	0.341	1.00

Quantitation Report File: ST16980827C

Data: ST16980827C.TI

08/27/98 10:51:00

Sample: SST050 50UG/ML CALI IV 070698F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
51	C545 3-NITROANILINE	138 S3# 75	99-09-2
52	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
53	C555 2,4-DINITROPHENOL	184 S3# 85SP	51-28-5
54	C565 DIBENZOFURAN	168 S3# 90	132-64-9
55	C560 4-NITROPHENOL	109 S3# 95SP	100-02-7
56	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
57	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2
58	C590 FLUORENE	166 S3#135	86-73-7
59	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
60	C595 4-NITROANALINE	138 S3#150	100-01-6
61	C610 4,6-DINITRO-2-METHYLPH	198 S4# 10	534-52-1
62	C615 N-NITROSODIPHENYLAMINE	169 S4# 15CC	87-30-6
63	C620 AZOBENZENE	77 S4# 20	103-33-3
64	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
65	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
66	C635 PENTACHLOROPHENOL	266 S4# 50	87-86-5
67	C640 PHENANTHRENE	178 S4# 65	85-01-8
68	C645 ANTHRACENE	178 S4# 70	120-12-7
69	C647 CARBAZOLE	167 S4# 80	86-74-8
70	C650 DI-N-BUTYLPHTHALATE	149 S4# 85	84-74-2
71	C655 FLUORANTHENE	202 S4#110CC	206-44-0
72	C710 BENZIDINE	184 S5# 10	92-81-5
73	C715 PYRENE	202 S5# 15	129-00-0
74	C720 BUTYLBENZYLPHTHALATE	149 S5# 40	85-68-7
75	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
76	C725 3,3'-DICHLOROBENZIDINE	252 S5# 55	91-94-1
77	C740 CHRYSENE	228 S5# 60	218-01-9
78	C745 BIS(2-ETHYLHEXYL)PHTHA	149 S5# 65	117-81-7
79	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
80	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
81	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
82	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
83	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
84	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
85	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	138	847	9:25	3	1.008	A BV	31064.	50.000 UG/ML	1.21
52	153	846	9:25	3	1.007	A BB	93562.	50.000 UG/ML	1.21
53	184	867	9:39	3	1.032	A BB	15019.	50.000 UG/ML	1.21
54	168	878	9:46	3	1.045	A BB	137484.	50.000 UG/ML	1.21
55	109	896	9:58	3	1.067	A BB	14092.	50.000 UG/ML	1.21
56	165	891	9:55	3	1.061	A BB	33286.	50.000 UG/ML	1.21
57	149	945	10:31	3	1.125	A BB	114985.	50.000 UG/ML	1.21
58	166	938	10:26	3	1.117	A BV	106082.	50.000 UG/ML	1.21

1485

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	204	949	10:33	3	1.130	A BB	49994.	50.000 UG/ML	1.21
60	138	956	10:38	3	1.138	A BB	25302.	50.000 UG/ML	1.21
61	198	962	10:42	4	0.875	A BV	18974.	50.000 UG/ML	1.21
62	169	973	10:49	4	0.885	A BV	76610.	50.000 UG/ML	1.21
63	77	976	10:51	4	0.888	A BB	161611.	50.000 UG/ML	1.21
64	248	1032	11:29	4	0.939	A BB	30356.	50.000 UG/ML	1.21
65	284	1031	11:28	4	0.938	A BB	34726.	50.000 UG/ML	1.21
66	266	1074	11:57	4	0.977	A BB	21227.	50.000 UG/ML	1.21
67	178	1103	12:16	4	1.004	A BV	142301.	50.000 UG/ML	1.21
68	178	1112	12:22	4	1.012	A VB	139815.	50.000 UG/ML	1.21
69	167	1150	12:47	4	1.046	A BB	99303.	50.000 UG/ML	1.21
70	149	1239	13:47	4	1.127	A BB	181488.	50.000 UG/ML	1.21
71	202	1311	14:35	4	1.193	A BB	126092.	50.000 UG/ML	1.21
72	184	1352	15:02	5	0.863	A BB	13954.	50.000 UG/ML	1.21
73	202	1348	15:00	5	0.861	A BB	125982.	50.000 UG/ML	1.21
74	149	1500	16:41	5	0.958	A BB	67310.	50.000 UG/ML	1.21
75	228	1564	17:24	5	0.999	A BV	108560.	50.000 UG/ML	1.21
76	252	1575	17:31	5	1.006	A BV	40964.	50.000 UG/ML	1.21
77	228	1570	17:28	5	1.003	A VB	97736.	50.000 UG/ML	1.21
78	149	1616	17:58	5	1.032	A BB	95888.	50.000 UG/ML	1.21
79	149	1727	19:13	6	0.961	A BB	158236.	50.000 UG/ML	1.21
80	252	1742	19:23	6	0.969	A BV	115462.	50.000 UG/ML	1.21
81	252	1747	19:26	6	0.972	A VB	93397.	50.000 UG/ML	1.21
82	252	1789	19:54	6	0.996	A BV	96136.	50.000 UG/ML	1.21
83	276	1944	21:37	6	1.082	A BV	104637.	50.000 UG/ML	1.21
84	278	1951	21:42	6	1.086	A BB	102669.	50.000 UG/ML	1.21
85	276	1976	21:59	6	1.100	A BV	108148.	50.000 UG/ML	1.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:26	1.00	1.010	1.00	50.00	50.00	0.392	0.392	1.00
52	9:25	1.00	1.007	1.00	50.00	50.00	1.182	1.182	1.00
53	9:39	1.00	1.032	1.00	50.00	50.00	0.190	0.190	1.00
54	9:46	1.00	1.045	1.00	50.00	50.00	1.736	1.736	1.00
55	9:59	1.00	1.068	1.00	50.00	50.00	0.178	0.178	1.00
56	9:55	1.00	1.061	1.00	50.00	50.00	0.420	0.420	1.00
57	10:31	1.00	1.126	1.00	50.00	50.00	1.452	1.452	1.00
58	10:26	1.00	1.117	1.00	50.00	50.00	1.340	1.340	1.00
59	10:33	1.00	1.130	1.00	50.00	50.00	0.631	0.631	1.00
60	10:39	1.00	1.139	1.00	50.00	50.00	0.320	0.320	1.00
61	10:42	1.00	0.875	1.00	50.00	50.00	0.139	0.139	1.00
62	10:50	1.00	0.886	1.00	50.00	50.00	0.562	0.562	1.00
63	10:51	1.00	0.888	1.00	50.00	50.00	1.186	1.186	1.00
64	11:29	1.00	0.940	1.00	50.00	50.00	0.223	0.223	1.00
65	11:29	1.00	0.939	1.00	50.00	50.00	0.255	0.255	1.00
66	11:57	1.00	0.977	1.00	50.00	50.00	0.156	0.156	1.00
67	12:17	1.00	1.005	1.00	50.00	50.00	1.044	1.044	1.00
68	12:22	1.00	1.012	1.00	50.00	50.00	1.026	1.026	1.00
69	12:47	1.00	1.046	1.00	50.00	50.00	0.729	0.729	1.00
70	13:47	1.00	1.127	1.00	50.00	50.00	1.332	1.332	1.00
71	14:36	1.00	1.194	1.00	50.00	50.00	0.925	0.925	1.00
72	15:03	1.00	0.864	1.00	50.00	50.00	0.143	0.143	1.00
73	15:00	1.00	0.861	1.00	50.00	50.00	1.295	1.295	1.00
74	16:41	1.00	0.958	1.00	50.00	50.00	0.692	0.692	1.00
75	17:24	1.00	0.999	1.00	50.00	50.00	1.116	1.116	1.00
76	17:31	1.00	1.006	1.00	50.00	50.00	0.421	0.421	1.00
77	17:28	1.00	1.003	1.00	50.00	50.00	1.005	1.005	1.00

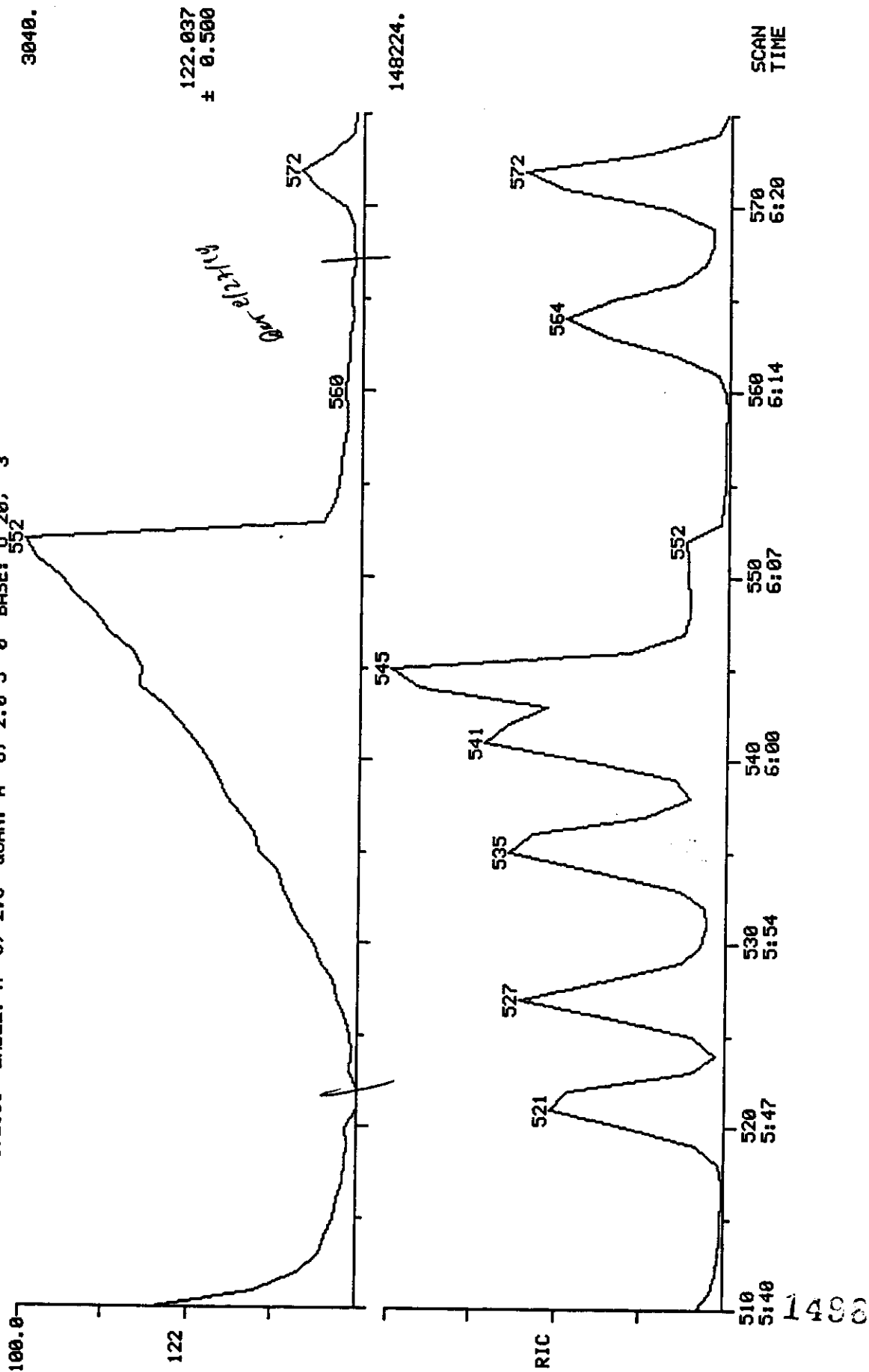
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	17:58	1.00	1.032	1.00	50.00	50.00	0.986	0.986	1.00
79	19:13	1.00	0.961	1.00	50.00	50.00	1.985	1.985	1.00
80	19:23	1.00	0.969	1.00	50.00	50.00	1.448	1.448	1.00
81	19:26	1.00	0.972	1.00	50.00	50.00	1.171	1.171	1.00
82	19:54	1.00	0.996	1.00	50.00	50.00	1.206	1.206	1.00
83	21:38	1.00	1.082	1.00	50.00	50.00	1.312	1.312	1.00
84	21:43	1.00	1.086	1.00	50.00	50.00	1.288	1.288	1.00
85	21:59	1.00	1.100	1.00	50.00	50.00	1.356	1.356	1.00

MANUAL EDIT CODES

1. PEAK NOT FOUND
2. POOR CHROMATOGRAPH.
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
INITIALED, DATED, AND CODED

RIC+MASS CHROMATOGRAM
 08/27/98 10:51:00
 DATA: ST16980827C #1
 CALI: ST16980827C #3
 SAMPLE: SST0650 50UG/ML CALI IV 070698F
 COND.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0.2.0 QUAN: A 6.2.0 J 0 BASE: U 20. 3
 SCANS 510 TO 575



MASS CHROMATOGRAMS

DATA: ST16980827C #1
CALI: ST16980827C #3

08/27/98 10:51:00 50UG/ML CALI IV 070698F

SAMPLE: SST0050 INST. ID: F16

COND.: N 2, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

RANGE: G 1.2158 LABEL: 659

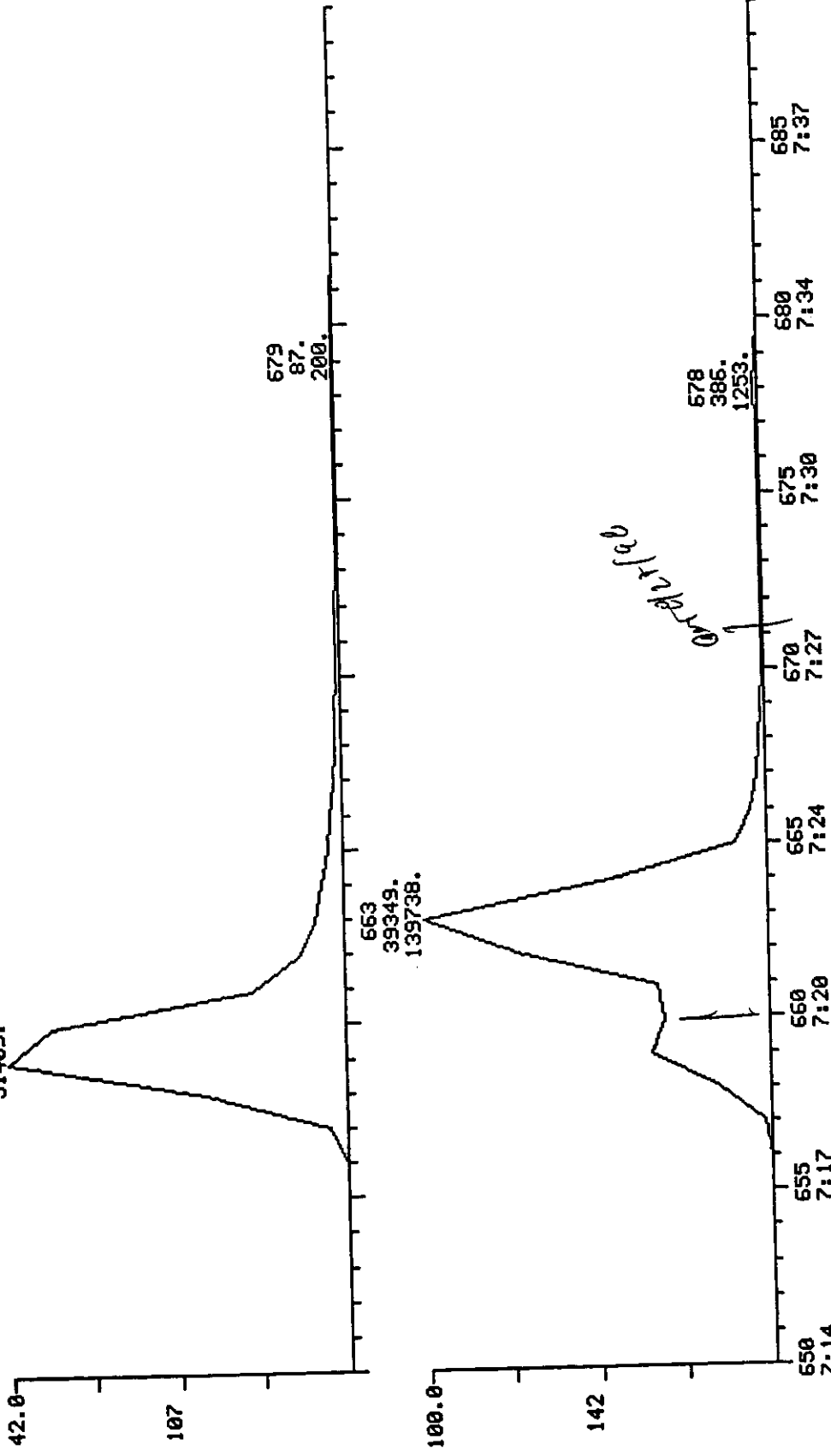
16511.
51409.

16512.

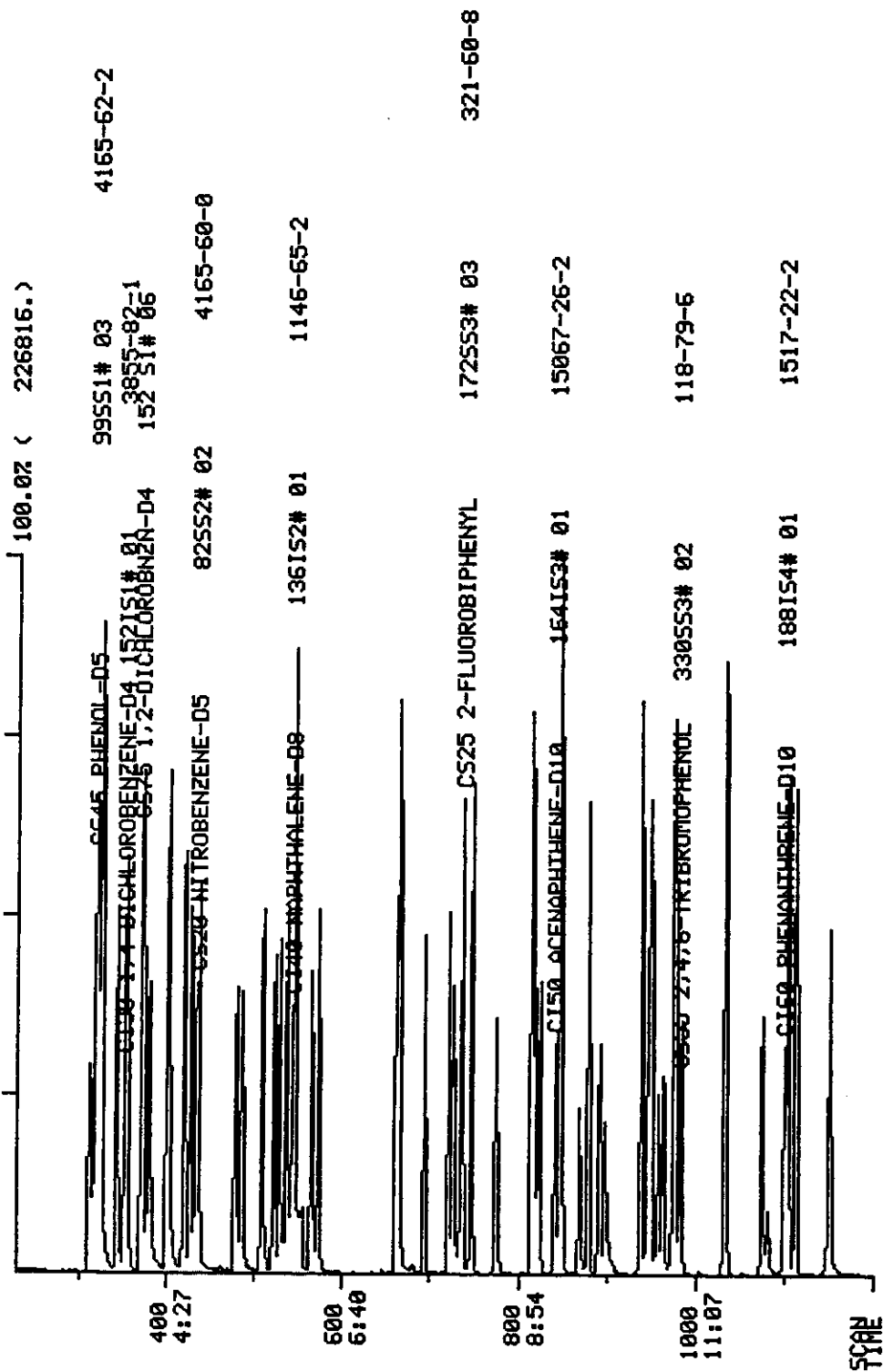
107.032
± 0.500

39360.

142.042
± 0.500

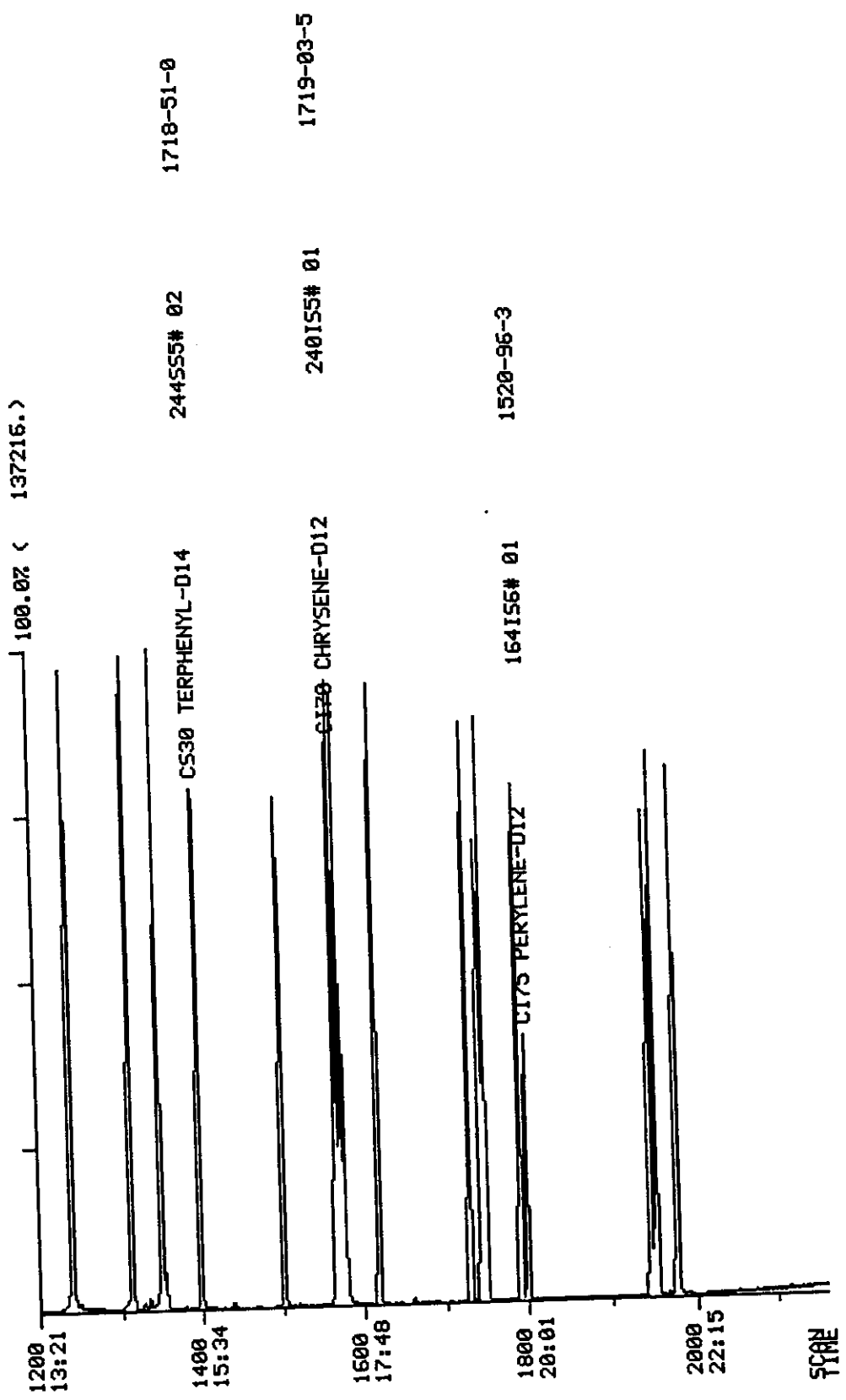


DATA FROM FILE: ST16980827 SCANS 230 TO 1200 ACQUIRED: 08/27/98 9:22:00
CALI: ST16980827 #3
SAMPLE: SSTD080 80UG/ML CALI III 082198A
CONDS.: INST. ID: F16



1500

DATA FROM FILE: ST16980827 SCANS 1200 TO 2158 ACQUIRED: 08/27/98 9:22:00
 CALI: ST16980827 #3
 SAMPLE: SSTD080 80UG/ML CALI III 082198A
 CONDS.: INST. ID: F16



Data: ST16980827.T1

08/27/98 9:22:00

Sample: SST0080 80UG/ML CALI III 082198A

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	1521S1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	1361S2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	1641S3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	1881S4# 01	1517-22-2
5	C170 CHRYSENE-D12	2401S5# 01	1719-03-5
6	C175 PERYLENE-D12	1641S6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS45 PHENOL-D5	99SS1# 03	4165-62-2
11	CS50 2-FLUOROPHENOL	112SS1# 02	367-12-4
12	CS55 2,4,6-TRIBROMOPHENOL	330SS3# 02	118-79-6
13	CS70 2-CHLOROPHENOL-D4	132 S1# 05	
14	CS75 1,2-DICHLOROBENZ-D4	152 S1# 06	
15	HEXACHLOROBENZENE-C13		
16	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
17	C320 ANILINE	93 S1#100	62-53-3
18	C315 PHENOL	94 S1#105CC	108-95-2
19	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
20	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
21	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
22	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
23	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
24	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
25	C355 2-METHYLPHENOL	108 S1#160	95-48-7
26	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
27	C365 4-METHYLPHENOL	108 S1#185	106-44-5
28	C370 N-NITROSO-DI-N-PROPYLAM	70 S1#190SP	621-64-7
29	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
30	C410 NITROBENZENE	77 S2# 10	98-95-3
31	C415 ISOPHORONE	82 S2# 20	75-59-1
32	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
33	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
34	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
35	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
36	C430 BENZOIC ACID	122 S2# 45	65-85-0
37	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
38	C450 NAPHTHALENE	128 S2# 60	91-20-3
39	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
40	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
41	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
42	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
43	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
44	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
45	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
46	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
47	C530 2-NITROANILINE	65 S3# 45	88-74-4

No	Name		
48	C535 DIMETHYLPHTHALATE	163 S3# 55	131-11-3
49	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
50	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	350	3:54	1	1.000	A BB	25488.	40.000 UG/ML	0.62
2	136	541	6:01	2	1.000	A BB	88640.	40.000 UG/ML	0.62
3	164	840	9:21	3	1.000	A BB	47354.	40.000 UG/ML	0.62
4	188	1099	12:13	4	1.000	A BB	80196.	40.000 UG/ML	0.62
5	240	1566	17:25	5	1.000	A BB	51312.	40.000 UG/ML	0.62
6	264	1797	19:59	6	1.000	A BB	44290.	40.000 UG/ML	0.62
7	82	433	4:49	2	0.800	A VB	89306.	80.000 UG/ML	1.23
8	172	735	8:11	3	0.875	A BV	123006.	80.000 UG/ML	1.23
9	244	1396	15:32	5	0.891	A BB	111089.	80.000 UG/ML	1.23
10	99	317	3:32	1	0.906	A BB	104277.	80.000 UG/ML	1.23
11	112	203	2:15	1	0.580	A BB	73823.	80.000 UG/ML	1.23
12	330	981	10:55	3	1.168	A BB	22048.	80.000 UG/ML	1.23
13	132	321	3:34	1	0.917	A BV	76599.	80.000 UG/ML	1.23
14	152	370	4:07	1	1.057	A BB	48888.	80.000 UG/ML	1.23
15	NOT FOUND								
16	74	108	1:12	1	0.309	A BB	55404.	80.000 UG/ML	1.23
17	93	310	3:27	1	0.886	A BV	95626.	80.000 UG/ML	1.23
18	94	319	3:33	1	0.911	A VB	109518.	80.000 UG/ML	1.23
19	93	324	3:36	1	0.926	A VB	72104.	80.000 UG/ML	1.23
20	128	324	3:36	1	0.926	A BB	81692.	80.000 UG/ML	1.23
21	146	341	3:48	1	0.974	A BV	84592.	80.000 UG/ML	1.23
22	146	352	3:55	1	1.006	A VB	86508.	80.000 UG/ML	1.23
23	108	379	4:13	1	1.083	A BB	46538.	80.000 UG/ML	1.23
24	146	372	4:08	1	1.063	A BB	80185.	80.000 UG/ML	1.23
25	108	400	4:27	1	1.143	A BB	61644.	80.000 UG/ML	1.23
26	45	399	4:26	1	1.140	A BB	131645.	80.000 UG/ML	1.23
27	108	426	4:44	1	1.217	A BB	65587.	80.000 UG/ML	1.23
28	70	420	4:40	1	1.200	A BV	47937.	80.000 UG/ML	1.23
29	117	418	4:39	1	1.194	A BB	36710.	80.000 UG/ML	1.23
30	77	436	4:51	2	0.806	A VB	86151.	80.000 UG/ML	1.23
31	82	478	5:19	2	0.884	A BB	137948.	80.000 UG/ML	1.23
32	139	485	5:24	2	0.896	A VB	41152.	80.000 UG/ML	1.23
33	107	508	5:39	2	0.939	A BB	70834.	80.000 UG/ML	1.23
34	93	522	5:48	2	0.965	A BV	95388.	80.000 UG/ML	1.23
35	162	527	5:52	2	0.974	A BB	58887.	80.000 UG/ML	1.23
36	122	554	6:10	2	1.024	qedt ②	47914.	80.000 UG/ML	1.23
37	180	535	5:57	2	0.989	A BB	62130.	80.000 UG/ML	1.23
38	128	545	6:04	2	1.007	A BB	195384.	80.000 UG/ML	1.23
39	127	564	6:16	2	1.043	A BB	85089.	80.000 UG/ML	1.23
40	225	572	6:22	2	1.057	A BB	31304.	80.000 UG/ML	1.23
41	107	660	7:20	2	1.220	A BB	64626.	80.000 UG/ML	1.23
42	142	663	7:22	2	1.226	qedt ②	134249.	80.000 UG/ML	1.23
43	237	692	7:42	3	0.824	A BB	40564.	80.000 UG/ML	1.23
44	196	719	8:00	3	0.856	A BV	41178.	80.000 UG/ML	1.23
45	196	724	8:03	3	0.862	A VB	41938.	80.000 UG/ML	1.23
46	162	745	8:17	3	0.887	A BB	121530.	80.000 UG/ML	1.23
47	65	774	8:37	3	0.921	A BB	49570.	80.000 UG/ML	1.23
48	163	818	9:06	3	0.974	A BV	135082.	80.000 UG/ML	1.23
49	152	814	9:03	3	0.969	A BB	193878.	80.000 UG/ML	1.23
50	165	823	9:09	3	0.980	A BB	33232.	80.000 UG/ML	1.23

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:49	1.00	0.800	1.00	80.00	80.00	0.504	0.504	1.00
8	8:11	1.00	0.875	1.00	80.00	80.00	1.299	1.299	1.00
9	15:32	1.00	0.891	1.00	80.00	80.00	1.082	1.082	1.00
10	3:32	1.00	0.906	1.00	80.00	80.00	2.046	2.046	1.00
11	2:15	1.00	0.580	1.00	80.00	80.00	1.448	1.448	1.00
12	10:55	1.00	1.168	1.00	80.00	80.00	0.233	0.233	1.00
13	3:34	1.00	0.917	1.00	80.00	80.00	1.503	1.503	1.00
14	4:07	1.00	1.057	1.00	80.00	80.00	0.959	0.959	1.00
15	12:39		0.941						
16	1:12	1.00	0.309	1.00	80.00	80.00	1.087	1.087	1.00
17	3:27	1.00	0.886	1.00	80.00	80.00	1.876	1.876	1.00
18	3:33	1.00	0.911	1.00	80.00	80.00	2.148	2.148	1.00
19	3:36	1.00	0.926	1.00	80.00	80.00	1.414	1.414	1.00
20	3:36	1.00	0.926	1.00	80.00	80.00	1.603	1.603	1.00
21	3:48	1.00	0.974	1.00	80.00	80.00	1.659	1.659	1.00
22	3:55	1.00	1.006	1.00	80.00	80.00	1.697	1.697	1.00
23	4:13	1.00	1.083	1.00	80.00	80.00	0.913	0.913	1.00
24	4:08	1.00	1.063	1.00	80.00	80.00	1.573	1.573	1.00
25	4:27	1.00	1.143	1.00	80.00	80.00	1.209	1.209	1.00
26	4:26	1.00	1.140	1.00	80.00	80.00	2.582	2.582	1.00
27	4:44	1.00	1.217	1.00	80.00	80.00	1.287	1.287	1.00
28	4:40	1.00	1.200	1.00	80.00	80.00	0.940	0.940	1.00
29	4:39	1.00	1.194	1.00	80.00	80.00	0.720	0.720	1.00
30	4:51	1.00	0.806	1.00	80.00	80.00	0.486	0.486	1.00
31	5:19	1.00	0.884	1.00	80.00	80.00	0.778	0.778	1.00
32	5:24	1.00	0.896	1.00	80.00	80.00	0.232	0.232	1.00
33	5:39	1.00	0.939	1.00	80.00	80.00	0.400	0.400	1.00
34	5:48	1.00	0.965	1.00	80.00	80.00	0.538	0.538	1.00
35	5:52	1.00	0.974	1.00	80.00	80.00	0.332	0.332	1.00
36	6:10	1.00	1.024	1.00	80.00	80.00	0.270	0.270	1.00
37	5:57	1.00	0.989	1.00	80.00	80.00	0.350	0.350	1.00
38	6:04	1.00	1.007	1.00	80.00	80.00	1.102	1.102	1.00
39	6:16	1.00	1.043	1.00	80.00	80.00	0.480	0.480	1.00
40	6:22	1.00	1.057	1.00	80.00	80.00	0.177	0.177	1.00
41	7:20	1.00	1.220	1.00	80.00	80.00	0.365	0.365	1.00
42	7:22	1.00	1.226	1.00	80.00	80.00	0.757	0.757	1.00
43	7:42	1.00	0.824	1.00	80.00	80.00	0.428	0.428	1.00
44	8:00	1.00	0.856	1.00	80.00	80.00	0.435	0.435	1.00
45	8:03	1.00	0.862	1.00	80.00	80.00	0.443	0.443	1.00
46	8:17	1.00	0.887	1.00	80.00	80.00	1.283	1.283	1.00
47	8:37	1.00	0.921	1.00	80.00	80.00	0.523	0.523	1.00
48	9:06	1.00	0.974	1.00	80.00	80.00	1.426	1.426	1.00
49	9:03	1.00	0.969	1.00	80.00	80.00	2.047	2.047	1.00
50	9:09	1.00	0.980	1.00	80.00	80.00	0.351	0.351	1.00

Quantitation Report File: ST16980827

Data: ST16980827.II

08/27/98 9:22:00

Sample: SST080 80UG/ML CALI III 082198A

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
51	C545 3-NITROANILINE	138 S3# 75	99-09-2
52	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
53	C555 2,4-DINITROPHENOL	184 S3# 85SP	51-28-5
54	C565 DIBENZOFURAN	168 S3# 90	132-64-9
55	C560 4-NITROPHENOL	109 S3# 95SP	100-02-7
56	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
57	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2
58	C590 FLUORENE	166 S3#135	86-73-7
59	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
60	C595 4-NITROANILINE	138 S3#150	100-01-6
61	C610 4,6-DINITRO-2-METHYLPH	198 S4# 10	534-52-1
62	C615 N-NITROSODIPHENYLAMINE	169 S4# 15CC	87-30-6
63	C620 AZOBENZENE	77 S4# 20	103-33-3
64	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
65	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
66	C635 PENTACHLOROPHENOL	266 S4# 50	87-86-5
67	C640 PHENANTHRENE	178 S4# 65	85-01-8
68	C645 ANTHRACENE	178 S4# 70	120-12-7
69	C647 CARBAZOLE	167 S4# 80	86-74-8
70	C650 DI-N-BUTYLPHTHALATE	149 S4# 85	84-74-2
71	C655 FLUORANTHENE	202 S4#110CC	206-44-0
72	C710 BENZIDINE	184 S5# 10	92-81-5
73	C715 PYRENE	202 S5# 15	129-00-0
74	C720 BUTYLBENZYLPHTHALATE	149 S5# 40	85-68-7
75	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
76	C725 3,3'-DICHLOROBENZIDINE	252 S5# 55	91-94-1
77	C740 CHRYSENE	228 S5# 60	218-01-9
78	C745 BIS(2-ETHYLHEXYL)PHTHA	149 S5# 65	117-81-7
79	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
80	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
81	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
82	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
83	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
84	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
85	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
51	138	848	9:26	3	1.010	A BB	36135.	80.000 UG/ML	1.23
52	153	846	9:25	3	1.007	A BB	119458.	80.000 UG/ML	1.23
53	184	867	9:39	3	1.032	A BB	19158.	80.000 UG/ML	1.23
54	168	878	9:46	3	1.045	A BB	166910.	80.000 UG/ML	1.23
55	109	897	9:59	3	1.068	A BB	17386.	80.000 UG/ML	1.23
56	165	891	9:55	3	1.061	A BB	41432.	80.000 UG/ML	1.23
57	149	946	10:31	3	1.126	A BB	138464.	80.000 UG/ML	1.23
58	166	938	10:26	3	1.117	A BV	131258.	80.000 UG/ML	1.23

1505

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
59	204	949	10:33	3	1.130	A BB	61220.	80.000 UG/ML	1.23
60	138	957	10:39	3	1.139	A BB	28966.	80.000 UG/ML	1.23
61	198	962	10:42	4	0.875	A BB	23256.	80.000 UG/ML	1.23
62	169	974	10:50	4	0.886	A BV	86506.	80.000 UG/ML	1.23
63	77	976	10:51	4	0.888	A BB	194334.	80.000 UG/ML	1.23
64	248	1033	11:29	4	0.940	A BB	37192.	80.000 UG/ML	1.23
65	284	1032	11:29	4	0.939	A BB	43018.	80.000 UG/ML	1.23
66	266	1074	11:57	4	0.977	A BB	27210.	80.000 UG/ML	1.23
67	178	1104	12:17	4	1.005	A BV	175815.	80.000 UG/ML	1.23
68	178	1112	12:22	4	1.012	A VB	169868.	80.000 UG/ML	1.23
69	167	1150	12:47	4	1.046	A BB	123401.	80.000 UG/ML	1.23
70	149	1239	13:47	4	1.127	A BB	213776.	80.000 UG/ML	1.23
71	202	1312	14:36	4	1.194	A BB	152339.	80.000 UG/ML	1.23
72	184	1353	15:03	5	0.864	A BB	7938.	80.000 UG/ML	1.23
73	202	1348	15:00	5	0.861	A BB	150637.	80.000 UG/ML	1.23
74	149	1500	16:41	5	0.958	A BB	74136.	80.000 UG/ML	1.23
75	228	1565	17:24	5	0.999	A BV	123435.	80.000 UG/ML	1.23
76	252	1575	17:31	5	1.006	A BB	39292.	80.000 UG/ML	1.23
77	228	1571	17:28	5	1.003	A VB	113108.	80.000 UG/ML	1.23
78	149	1616	17:58	5	1.032	A BB	105344.	80.000 UG/ML	1.23
79	149	1727	19:13	6	0.961	A BB	175103.	80.000 UG/ML	1.23
80	252	1742	19:23	6	0.969	A BV	128697.	80.000 UG/ML	1.23
81	252	1747	19:26	6	0.972	A VB	111928.	80.000 UG/ML	1.23
82	252	1789	19:54	6	0.996	A BV	108866.	80.000 UG/ML	1.23
83	276	1945	21:38	6	1.082	A BV	121168.	80.000 UG/ML	1.23
84	278	1952	21:43	6	1.086	A BV	120479.	80.000 UG/ML	1.23
85	276	1977	21:59	6	1.100	A BB	126303.	80.000 UG/ML	1.23

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:26	1.00	1.010	1.00	80.00	80.00	0.382	0.382	1.00
52	9:25	1.00	1.007	1.00	80.00	80.00	1.261	1.261	1.00
53	9:39	1.00	1.032	1.00	80.00	80.00	0.202	0.202	1.00
54	9:46	1.00	1.045	1.00	80.00	80.00	1.762	1.762	1.00
55	9:59	1.00	1.068	1.00	80.00	80.00	0.184	0.184	1.00
56	9:55	1.00	1.061	1.00	80.00	80.00	0.437	0.437	1.00
57	10:31	1.00	1.126	1.00	80.00	80.00	1.462	1.462	1.00
58	10:26	1.00	1.117	1.00	80.00	80.00	1.386	1.386	1.00
59	10:33	1.00	1.130	1.00	80.00	80.00	0.646	0.646	1.00
60	10:39	1.00	1.139	1.00	80.00	80.00	0.306	0.306	1.00
61	10:42	1.00	0.875	1.00	80.00	80.00	0.145	0.145	1.00
62	10:50	1.00	0.886	1.00	80.00	80.00	0.539	0.539	1.00
63	10:51	1.00	0.888	1.00	80.00	80.00	1.212	1.212	1.00
64	11:29	1.00	0.940	1.00	80.00	80.00	0.232	0.232	1.00
65	11:29	1.00	0.939	1.00	80.00	80.00	0.268	0.268	1.00
66	11:57	1.00	0.977	1.00	80.00	80.00	0.170	0.170	1.00
67	12:17	1.00	1.005	1.00	80.00	80.00	1.096	1.096	1.00
68	12:22	1.00	1.012	1.00	80.00	80.00	1.059	1.059	1.00
69	12:47	1.00	1.046	1.00	80.00	80.00	0.769	0.769	1.00
70	13:47	1.00	1.127	1.00	80.00	80.00	1.333	1.333	1.00
71	14:36	1.00	1.194	1.00	80.00	80.00	0.950	0.950	1.00
72	15:03	1.00	0.864	1.00	80.00	80.00	0.077	0.077	1.00
73	15:00	1.00	0.861	1.00	80.00	80.00	1.468	1.468	1.00
74	16:41	1.00	0.958	1.00	80.00	80.00	0.722	0.722	1.00
75	17:24	1.00	0.999	1.00	80.00	80.00	1.203	1.203	1.00
76	17:31	1.00	1.006	1.00	80.00	80.00	0.383	0.383	1.00
77	17:28	1.00	1.003	1.00	80.00	80.00	1.102	1.102	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	17:58	1.00	1.032	1.00	80.00	80.00	1.027	1.027	1.00
79	19:13	1.00	0.961	1.00	80.00	80.00	1.977	1.977	1.00
80	19:23	1.00	0.969	1.00	80.00	80.00	1.453	1.453	1.00
81	19:26	1.00	0.972	1.00	80.00	80.00	1.264	1.264	1.00
82	19:54	1.00	0.996	1.00	80.00	80.00	1.229	1.229	1.00
83	21:38	1.00	1.082	1.00	80.00	80.00	1.368	1.368	1.00
84	21:43	1.00	1.086	1.00	80.00	80.00	1.360	1.360	1.00
85	21:59	1.00	1.100	1.00	80.00	80.00	1.426	1.426	1.00

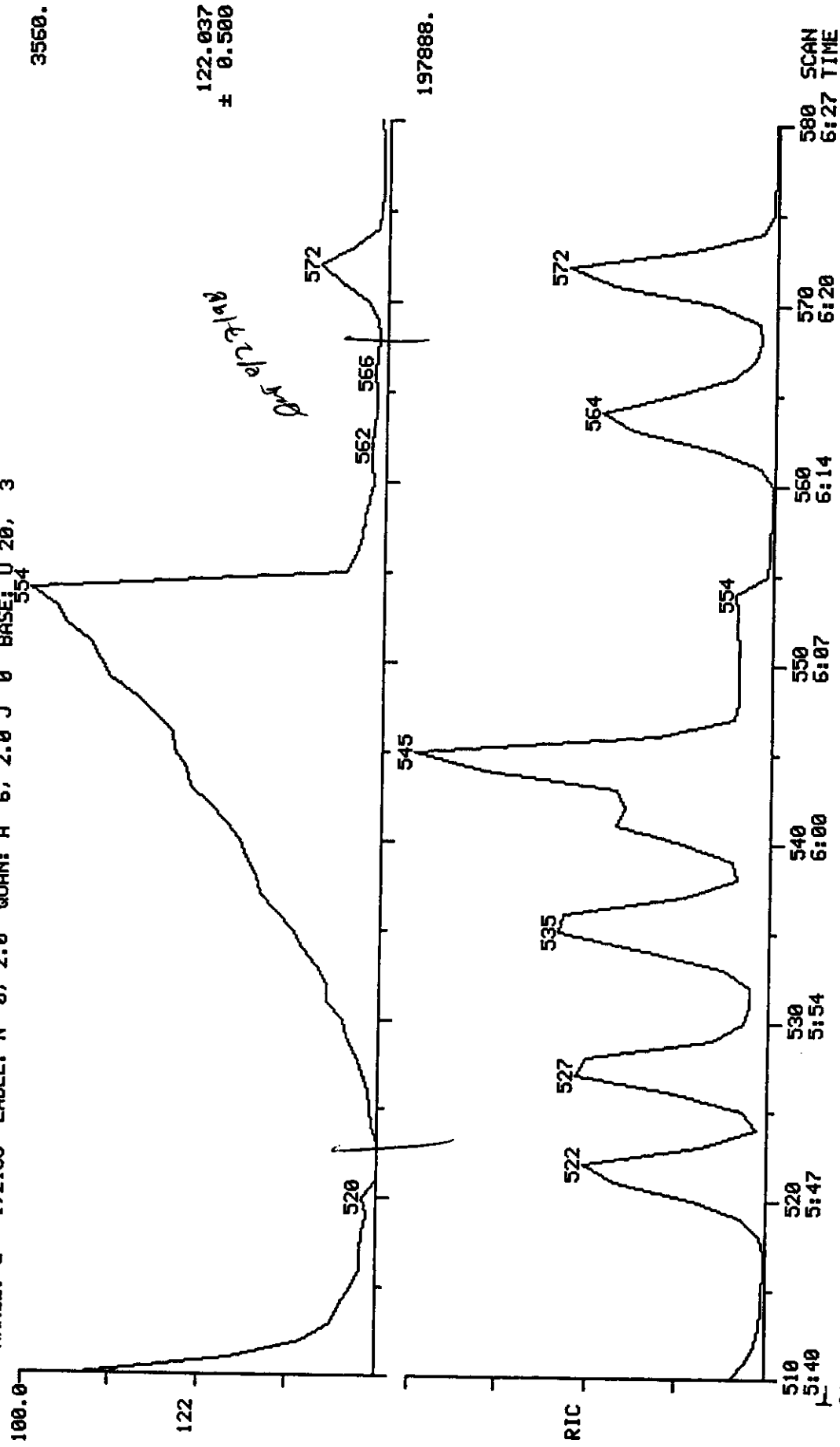
MANUAL EDIT CODES

1. PEAK NOT FOUND
 2. POOR CHROMATOGRAPH
 3. WRONG ISOMER
- ALL MANUAL EDITS MUST BE
INITIALED, DATED, AND CODED

RIC+MASS CHROMATOGRAM

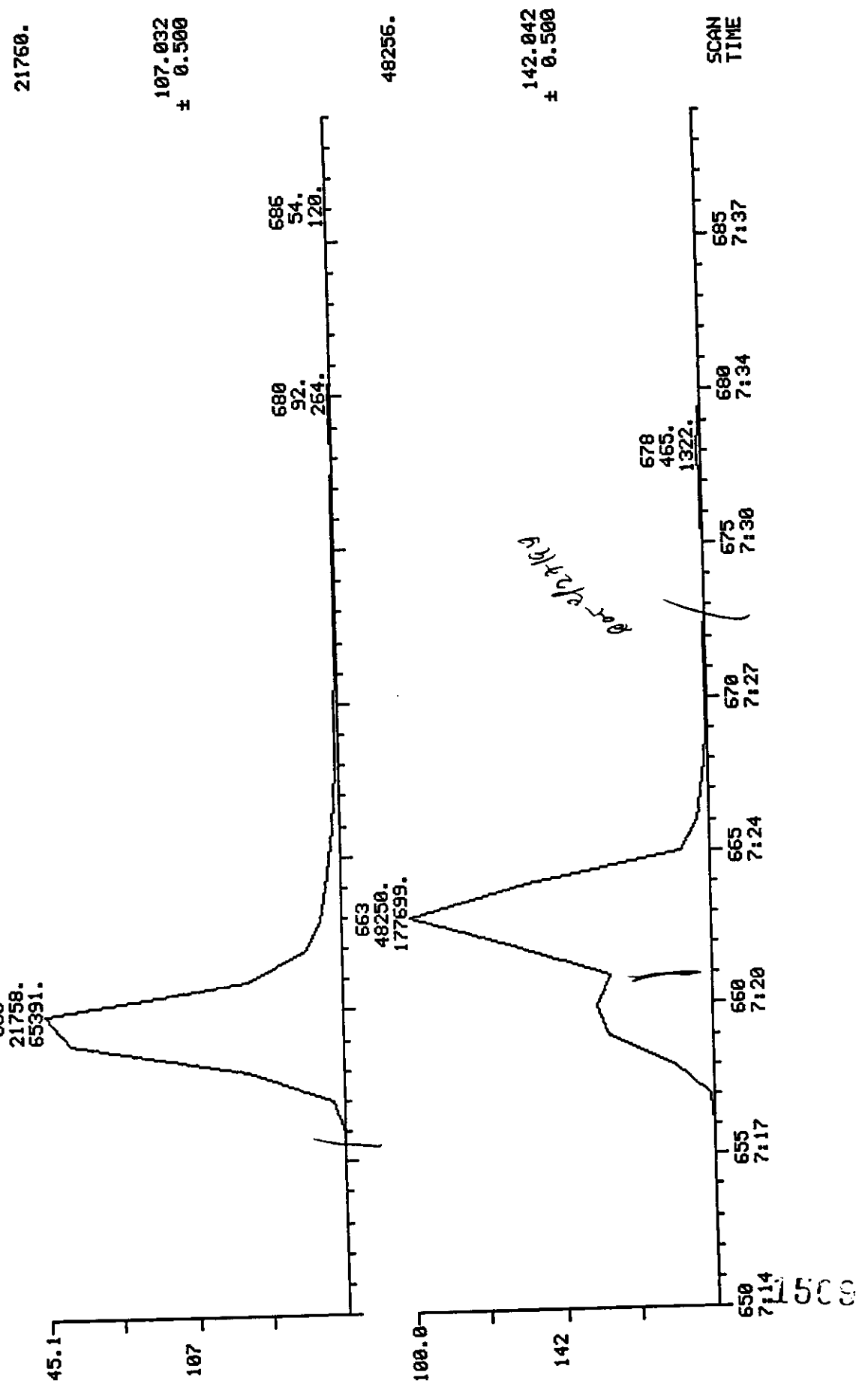
08/27/98 9:22:00
 DATA: ST16980827 #1
 CALI: ST16980827 #3
 SAMPLE: SST080 80UG/ML CALI III 082198A
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0.2.0 QUAN: A 6.2.0 J 0 BASE: U 20. 3

SCANS 510 TO 580

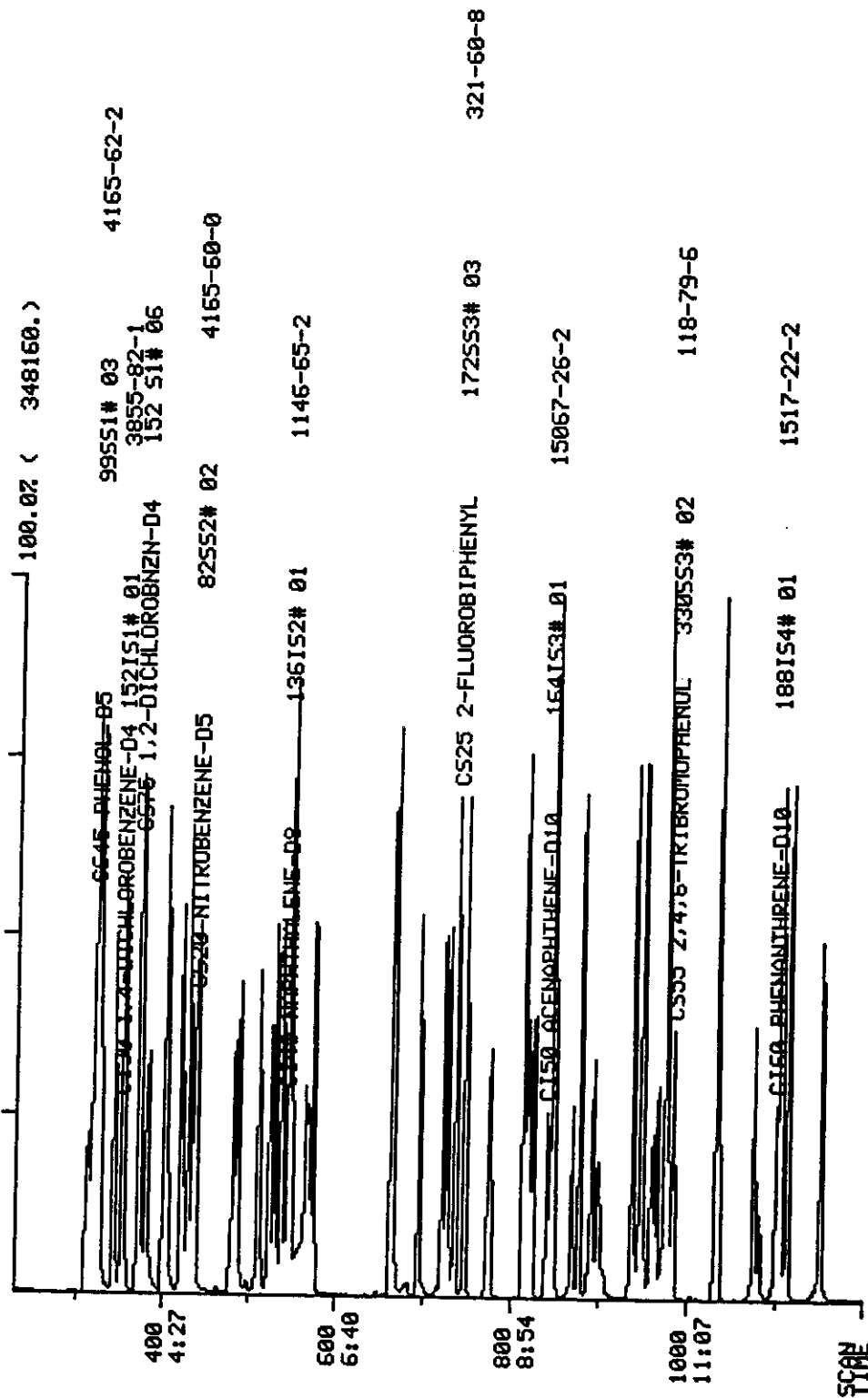


1500

MASS CHROMATOGRAMS
 08/27/98 9:22:00
 DATA: ST16980827 #1
 CALI: ST16980827 #3
 SAMPLE: SST0800 80UG/ML CALI III 082158A
 CONDS.: INST. ID: F16
 RANGE: G 1,2158 LABEL: N 2, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3
 SCANS 650 TO 689

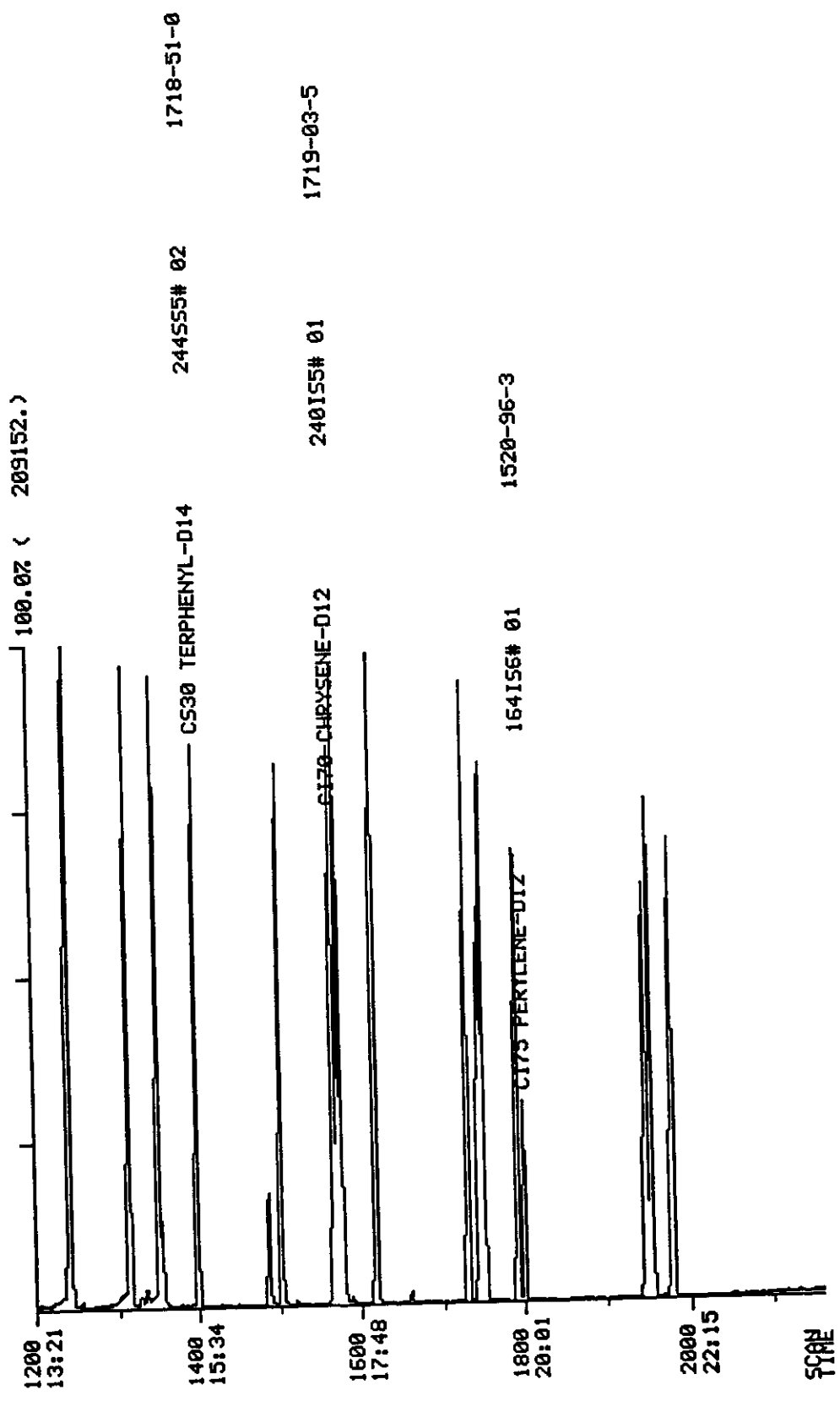


DATA FROM FILE: ST169808270 SCANS 230 TO 1200 ACQUIRED: 08/27/98 11:20:00
 SAMPLE: SSTD120 120UG/ML CALI II 070698H
 COND5.: INST. ID: F16



1510

DATA FROM FILE: ST16980827D SCANS 1200 TO 2158 ACQUIRED: 08/27/98 11:20:00
 CALI: ST16980827D #3
 SAMPLE: SST0120 120UG/ML CALI II 070698H
 CONDS.: INST. ID: F16



Data: ST16980827D.T1

08/27/98 11:20:00

Sample: SSTD120 120UG/ML CALI II 070698H

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS45 PHENOL-D5	99SS1# 03	4165-62-2
11	CS50 2-FLUOROPHENOL	112SS1# 02	367-12-4
12	CS55 2,4,6-TRIBROMOPHENOL	330SS3# 02	118-79-6
13	CS70 2-CHLOROPHENOL-D4	132 S1# 05	
14	CS75 1,2-DICHLOROBENZENE-D4	152 S1# 06	
15	HEXACHLOROBENZENE-C13		
16	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
17	C320 ANILINE	93 S1#100	62-53-3
18	C315 PHENOL	94 S1#105CC	108-95-2
19	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
20	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
21	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
22	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
23	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
24	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
25	C355 2-METHYLPHENOL	108 S1#160	95-48-7
26	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
27	C365 4-METHYLPHENOL	108 S1#185	106-44-5
28	C370 N-NITROSO-DI-N-PROPYLAM	70 S1#190SP	621-64-7
29	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
30	C410 NITROBENZENE	77 S2# 10	98-95-3
31	C415 ISOPHORONE	82 S2# 20	75-59-1
32	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
33	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
34	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
35	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
36	C430 BENZOIC ACID	122 S2# 45	65-85-0
37	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
38	C450 NAPHTHALENE	128 S2# 60	91-20-3
39	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
40	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
41	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
42	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
43	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
44	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
45	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
46	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
47	C530 2-NITROANILINE	65 S3# 45	88-74-4

No	Name		
48	C535 DIMETHYLPHTHALATE	163 S3# 55	131-11-3
49	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
50	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	152	351	3:54	1	1.000	A BB	28868.	40.000 UG/ML	0.42
2	136	542	6:02	2	1.000	A BB	109146.	40.000 UG/ML	0.42
3	164	841	9:21	3	1.000	A BB	62260.	40.000 UG/ML	0.42
4	188	1100	12:14	4	1.000	A BB	102618.	40.000 UG/ML	0.42
5	240	1567	17:26	5	1.000	A BB	60424.	40.000 UG/ML	0.42
6	264	1798	20:00	6	1.000	A BB	49906.	40.000 UG/ML	0.42
7	82	435	4:50	2	0.803	A BB	148159.	120.000 UG/ML	1.25
8	172	736	8:11	3	0.875	A BB	218708.	120.000 UG/ML	1.25
9	244	1397	15:32	5	0.892	A VB	173968.	120.000 UG/ML	1.25
10	99	319	3:33	1	0.909	A BB	172744.	120.000 UG/ML	1.25
11	112	204	2:16	1	0.581	A BB	119161.	120.000 UG/ML	1.25
12	330	983	10:56	3	1.169	A BB	42668.	120.000 UG/ML	1.25
13	132	323	3:36	1	0.920	A BB	124435.	120.000 UG/ML	1.25
14	152	371	4:08	1	1.057	A BB	78148.	120.000 UG/ML	1.25
15	NOT FOUND								
16	74	109	1:13	1	0.311	A VB	87333.	120.000 UG/ML	1.25
17	93	312	3:28	1	0.889	A BV	154018.	120.000 UG/ML	1.25
18	94	321	3:34	1	0.915	A VB	165127.	120.000 UG/ML	1.25
19	93	326	3:38	1	0.929	A VB	111846.	120.000 UG/ML	1.25
20	128	325	3:37	1	0.926	A BB	125615.	120.000 UG/ML	1.25
21	146	342	3:48	1	0.974	A BV	133856.	120.000 UG/ML	1.25
22	146	353	3:56	1	1.006	A VB	134148.	120.000 UG/ML	1.25
23	108	381	4:14	1	1.085	A BB	74988.	120.000 UG/ML	1.25
24	146	373	4:09	1	1.063	A BB	125957.	120.000 UG/ML	1.25
25	108	402	4:28	1	1.145	A BB	103881.	120.000 UG/ML	1.25
26	45	400	4:27	1	1.140	A BB	216653.	120.000 UG/ML	1.25
27	108	429	4:46	1	1.222	A BB	113933.	120.000 UG/ML	1.25
28	70	423	4:42	1	1.205	A BV	79097.	120.000 UG/ML	1.25
29	117	419	4:40	1	1.194	A BB	61106.	120.000 UG/ML	1.25
30	77	438	4:52	2	0.808	A VB	137055.	120.000 UG/ML	1.25
31	82	481	5:21	2	0.887	A BB	237871.	120.000 UG/ML	1.25
32	139	486	5:24	2	0.897	A BB	71784.	120.000 UG/ML	1.25
33	107	510	5:40	2	0.941	A BB	114342.	120.000 UG/ML	1.25
34	93	523	5:49	2	0.965	A BB	164456.	120.000 UG/ML	1.25
35	162	529	5:53	2	0.976	A BB	101851.	120.000 UG/ML	1.25
36	122	564	6:16	2	1.041	qedt(2)	91808.	120.000 UG/ML	1.25
37	180	537	5:58	2	0.991	A BB	105480.	120.000 UG/ML	1.25
38	128	546	6:04	2	1.007	A BB	314427.	120.000 UG/ML	1.25
39	127	567	6:18	2	1.046	A BB	146940.	120.000 UG/ML	1.25
40	225	572	6:22	2	1.055	A BB	54706.	120.000 UG/ML	1.25
41	107	661	7:21	2	1.220	A BB	113771.	120.000 UG/ML	1.25
42	142	664	7:23	2	1.225	qedt(2)	219628.	120.000 UG/ML	1.25
43	237	693	7:42	3	0.824	A BB	70772.	120.000 UG/ML	1.25
44	196	720	8:01	3	0.856	A BV	77913.	120.000 UG/ML	1.25
45	196	726	8:05	3	0.863	A VB	74944.	120.000 UG/ML	1.25
46	162	747	8:19	3	0.888	A BB	210616.	120.000 UG/ML	1.25
47	65	775	8:37	3	0.922	A BB	90989.	120.000 UG/ML	1.25
48	163	820	9:07	3	0.975	A BB	242196.	120.000 UG/ML	1.25
49	152	815	9:04	3	0.969	A BB	318836.	120.000 UG/ML	1.25
50	165	825	9:11	3	0.981	A BB	59941.	120.000 UG/ML	1.25

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:49	1.00	0.800	1.00	120.00	120.00	0.452	0.452	1.00
8	8:11	1.00	0.875	1.00	120.00	120.00	1.171	1.171	1.00
9	15:32	1.00	0.891	1.00	120.00	120.00	0.960	0.960	1.00
10	3:32	1.01	0.906	1.00	120.00	120.00	1.995	1.995	1.00
11	2:15	1.00	0.580	1.00	120.00	120.00	1.376	1.376	1.00
12	10:55	1.00	1.168	1.00	120.00	120.00	0.228	0.228	1.00
13	3:34	1.01	0.917	1.00	120.00	120.00	1.437	1.437	1.00
14	4:07	1.00	1.057	1.00	120.00	120.00	0.902	0.902	1.00
15	12:39		0.941						
16	1:12	1.01	0.309	1.01	120.00	120.00	1.008	1.008	1.00
17	3:27	1.01	0.886	1.00	120.00	120.00	1.778	1.778	1.00
18	3:33	1.01	0.911	1.00	120.00	120.00	1.907	1.907	1.00
19	3:36	1.01	0.926	1.00	120.00	120.00	1.291	1.291	1.00
20	3:36	1.00	0.926	1.00	120.00	120.00	1.450	1.450	1.00
21	3:48	1.00	0.974	1.00	120.00	120.00	1.546	1.546	1.00
22	3:55	1.00	1.006	1.00	120.00	120.00	1.549	1.549	1.00
23	4:13	1.01	1.083	1.00	120.00	120.00	0.866	0.866	1.00
24	4:08	1.00	1.063	1.00	120.00	120.00	1.454	1.454	1.00
25	4:27	1.01	1.143	1.00	120.00	120.00	1.199	1.199	1.00
26	4:26	1.00	1.140	1.00	120.00	120.00	2.502	2.502	1.00
27	4:44	1.01	1.217	1.00	120.00	120.00	1.316	1.316	1.00
28	4:40	1.01	1.200	1.00	120.00	120.00	0.913	0.913	1.00
29	4:39	1.00	1.194	1.00	120.00	120.00	0.706	0.706	1.00
30	4:51	1.00	0.806	1.00	120.00	120.00	0.419	0.419	1.00
31	5:19	1.01	0.884	1.00	120.00	120.00	0.726	0.726	1.00
32	5:24	1.00	0.896	1.00	120.00	120.00	0.219	0.219	1.00
33	5:39	1.00	0.939	1.00	120.00	120.00	0.349	0.349	1.00
34	5:48	1.00	0.965	1.00	120.00	120.00	0.502	0.502	1.00
35	5:52	1.00	0.974	1.00	120.00	120.00	0.311	0.311	1.00
36	6:10	1.02	1.024	1.02	120.00	120.00	0.280	0.280	1.00
37	5:57	1.00	0.989	1.00	120.00	120.00	0.322	0.322	1.00
38	6:04	1.00	1.007	1.00	120.00	120.00	0.960	0.960	1.00
39	6:16	1.01	1.043	1.00	120.00	120.00	0.449	0.449	1.00
40	6:22	1.00	1.057	1.00	120.00	120.00	0.167	0.167	1.00
41	7:20	1.00	1.220	1.00	120.00	120.00	0.347	0.347	1.00
42	7:22	1.00	1.226	1.00	120.00	120.00	0.671	0.671	1.00
43	7:42	1.00	0.824	1.00	120.00	120.00	0.379	0.379	1.00
44	8:00	1.00	0.856	1.00	120.00	120.00	0.417	0.417	1.00
45	8:03	1.00	0.862	1.00	120.00	120.00	0.401	0.401	1.00
46	8:17	1.00	0.887	1.00	120.00	120.00	1.128	1.128	1.00
47	8:37	1.00	0.921	1.00	120.00	120.00	0.487	0.487	1.00
48	9:06	1.00	0.974	1.00	120.00	120.00	1.297	1.297	1.00
49	9:03	1.00	0.969	1.00	120.00	120.00	1.707	1.707	1.00
50	9:09	1.00	0.980	1.00	120.00	120.00	0.321	0.321	1.00

Quantitation Report File: ST169808270

Data: ST169808270.TI

08/27/98 11:20:00

Sample: SSTD120 120UG/ML CALI II 070698H

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
51	C545 3-NITROANILINE	138 S3# 75	99-09-2
52	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
53	C555 2,4-DINITROPHENOL	184 S3# 85SP	51-28-5
54	C565 DIBENZOFURAN	168 S3# 90	132-64-9
55	C560 4-NITROPHENOL	109 S3# 95SP	100-02-7
56	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
57	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2
58	C590 FLUORENE	166 S3#135	86-73-7
59	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
60	C595 4-NITROANALINE	138 S3#150	100-01-6
61	C610 4,6-DINITRO-2-METHYLPH	198 S4# 10	534-52-1
62	C615 N-NITROSOIPHENYLAMINE	169 S4# 15CC	87-30-6
63	C620 AZOBENZENE	77 S4# 20	103-33-3
64	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
65	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
66	C635 PENTACHLOROPHENOL	266 S4# 50	87-86-5
67	C640 PHENANTHRENE	178 S4# 65	85-01-8
68	C645 ANTHRACENE	178 S4# 70	120-12-7
69	C647 CARBAZOLE	167 S4# 80	86-74-8
70	C650 DI-N-BUTYLPHTHALATE	149 S4# 85	84-74-2
71	C655 FLUORANTHENE	202 S4#110CC	206-44-0
72	C710 BENZIDINE	184 S5# 10	92-81-5
73	C715 PYRENE	202 S5# 15	129-00-0
74	C720 BUTYLBENZYLPHTHALATE	149 S5# 40	85-68-7
75	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
76	C725 3,3'-DICHLOROBENZIDINE	252 S5# 55	91-94-1
77	C740 CHRYSENE	228 S5# 60	218-01-9
78	C745 BIS(2-ETHYLHEXYL)PHTHA	149 S5# 65	117-81-7
79	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
80	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
81	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
82	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
83	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
84	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
85	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	138	850	9:27	3	1.011	A BB	70791.	120.000 UG/ML	1.25
52	153	848	9:26	3	1.008	A BB	200860.	120.000 UG/ML	1.25
53	184	870	9:41	3	1.034	A BB	37857.	120.000 UG/ML	1.25
54	168	880	9:47	3	1.046	A VB	290690.	120.000 UG/ML	1.25
55	109	899	10:00	3	1.069	A BB	31391.	120.000 UG/ML	1.25
56	165	893	9:56	3	1.062	A BB	74054.	120.000 UG/ML	1.25
57	149	948	10:33	3	1.127	A BB	247974.	120.000 UG/ML	1.25
58	166	939	10:27	3	1.117	A BV	228542.	120.000 UG/ML	1.25

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
59	204	950	10:34	3	1.130	A BB	108212.	120.000 UG/ML	1.25
60	138	961	10:41	3	1.143	A VB	49100.	120.000 UG/ML	1.25
61	198	965	10:44	4	0.877	A VB	38167.	120.000 UG/ML	1.25
62	169	976	10:51	4	0.887	A BV	163243.	120.000 UG/ML	1.25
63	77	978	10:53	4	0.889	A BB	338029.	120.000 UG/ML	1.25
64	248	1034	11:30	4	0.940	A BB	66106.	120.000 UG/ML	1.25
65	284	1033	11:29	4	0.939	A BB	73348.	120.000 UG/ML	1.25
66	266	1075	11:57	4	0.977	A BB	47725.	120.000 UG/ML	1.25
67	178	1105	12:17	4	1.005	A BV	291774.	120.000 UG/ML	1.25
68	178	1114	12:23	4	1.013	A VB	279557.	120.000 UG/ML	1.25
69	167	1151	12:48	4	1.046	A BB	217660.	120.000 UG/ML	1.25
70	149	1240	13:48	4	1.127	A BB	349945.	120.000 UG/ML	1.25
71	202	1313	14:36	4	1.194	A BB	242593.	120.000 UG/ML	1.25
72	184	1353	15:03	5	0.863	A BB	25549.	120.000 UG/ML	1.25
73	202	1349	15:00	5	0.861	A BB	234777.	120.000 UG/ML	1.25
74	149	1501	16:42	5	0.958	A BB	126873.	120.000 UG/ML	1.25
75	228	1565	17:24	5	0.999	A BV	196831.	120.000 UG/ML	1.25
76	252	1576	17:32	5	1.006	A BB	73334.	120.000 UG/ML	1.25
77	228	1572	17:29	5	1.003	A VB	173809.	120.000 UG/ML	1.25
78	149	1616	17:58	5	1.031	A BB	178906.	120.000 UG/ML	1.25
79	149	1728	19:13	6	0.961	A BB	294445.	120.000 UG/ML	1.25
80	252	1744	19:24	6	0.970	qedt	223052.	120.000 UG/ML	1.25
81	252	1748	19:27	6	0.972	qedt	175371.	120.000 UG/ML	1.25
82	252	1790	19:55	6	0.996	A BB	171744.	120.000 UG/ML	1.25
83	276	1946	21:39	6	1.082	A BV	185834.	120.000 UG/ML	1.25
84	278	1953	21:43	6	1.086	A BB	181428.	120.000 UG/ML	1.25
85	276	1978	22:00	6	1.100	A BB	192918.	120.000 UG/ML	1.25

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:26	1.00	1.010	1.00	120.00	120.00	0.379	0.379	1.00
52	9:25	1.00	1.007	1.00	120.00	120.00	1.075	1.075	1.00
53	9:39	1.00	1.032	1.00	120.00	120.00	0.203	0.203	1.00
54	9:46	1.00	1.045	1.00	120.00	120.00	1.556	1.556	1.00
55	9:59	1.00	1.068	1.00	120.00	120.00	0.168	0.168	1.00
56	9:55	1.00	1.061	1.00	120.00	120.00	0.396	0.396	1.00
57	10:31	1.00	1.126	1.00	120.00	120.00	1.328	1.328	1.00
58	10:26	1.00	1.117	1.00	120.00	120.00	1.224	1.224	1.00
59	10:33	1.00	1.130	1.00	120.00	120.00	0.579	0.579	1.00
60	10:39	1.00	1.139	1.00	120.00	120.00	0.263	0.263	1.00
61	10:42	1.00	0.875	1.00	120.00	120.00	0.124	0.124	1.00
62	10:50	1.00	0.886	1.00	120.00	120.00	0.530	0.530	1.00
63	10:51	1.00	0.888	1.00	120.00	120.00	1.098	1.098	1.00
64	11:29	1.00	0.940	1.00	120.00	120.00	0.215	0.215	1.00
65	11:29	1.00	0.939	1.00	120.00	120.00	0.238	0.238	1.00
66	11:57	1.00	0.977	1.00	120.00	120.00	0.155	0.155	1.00
67	12:17	1.00	1.005	1.00	120.00	120.00	0.948	0.948	1.00
68	12:22	1.00	1.012	1.00	120.00	120.00	0.908	0.908	1.00
69	12:47	1.00	1.046	1.00	120.00	120.00	0.707	0.707	1.00
70	13:47	1.00	1.127	1.00	120.00	120.00	1.137	1.137	1.00
71	14:36	1.00	1.194	1.00	120.00	120.00	0.788	0.788	1.00
72	15:03	1.00	0.864	1.00	120.00	120.00	0.141	0.141	1.00
73	15:00	1.00	0.861	1.00	120.00	120.00	1.295	1.295	1.00
74	16:41	1.00	0.958	1.00	120.00	120.00	0.700	0.700	1.00
75	17:24	1.00	0.999	1.00	120.00	120.00	1.086	1.086	1.00
76	17:31	1.00	1.006	1.00	120.00	120.00	0.405	0.405	1.00
77	17:28	1.00	1.003	1.00	120.00	120.00	0.959	0.959	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	17:58	1.00	1.032	1.00	120.00	120.00	0.987	0.987	1.00
79	19:13	1.00	0.961	1.00	120.00	120.00	1.967	1.967	1.00
80	19:23	1.00	0.969	1.00	120.00	120.00	1.490	1.490	1.00
81	19:26	1.00	0.972	1.00	120.00	120.00	1.171	1.171	1.00
82	19:54	1.00	0.996	1.00	120.00	120.00	1.147	1.147	1.00
83	21:38	1.00	1.082	1.00	120.00	120.00	1.241	1.241	1.00
84	21:43	1.00	1.086	1.00	120.00	120.00	1.212	1.212	1.00
85	21:59	1.00	1.100	1.00	120.00	120.00	1.289	1.289	1.00

MANUAL EDIT CODES

1. PEAK NOT FOUND
2. POOR CHROMATOGRAPH
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
TIMED, DATED, AND CODED

RIC+MASS CHROMATOGRAM

08/27/98 11:20:00

SAMPLE: SSTD120 120UG/ML CALI II 070698H

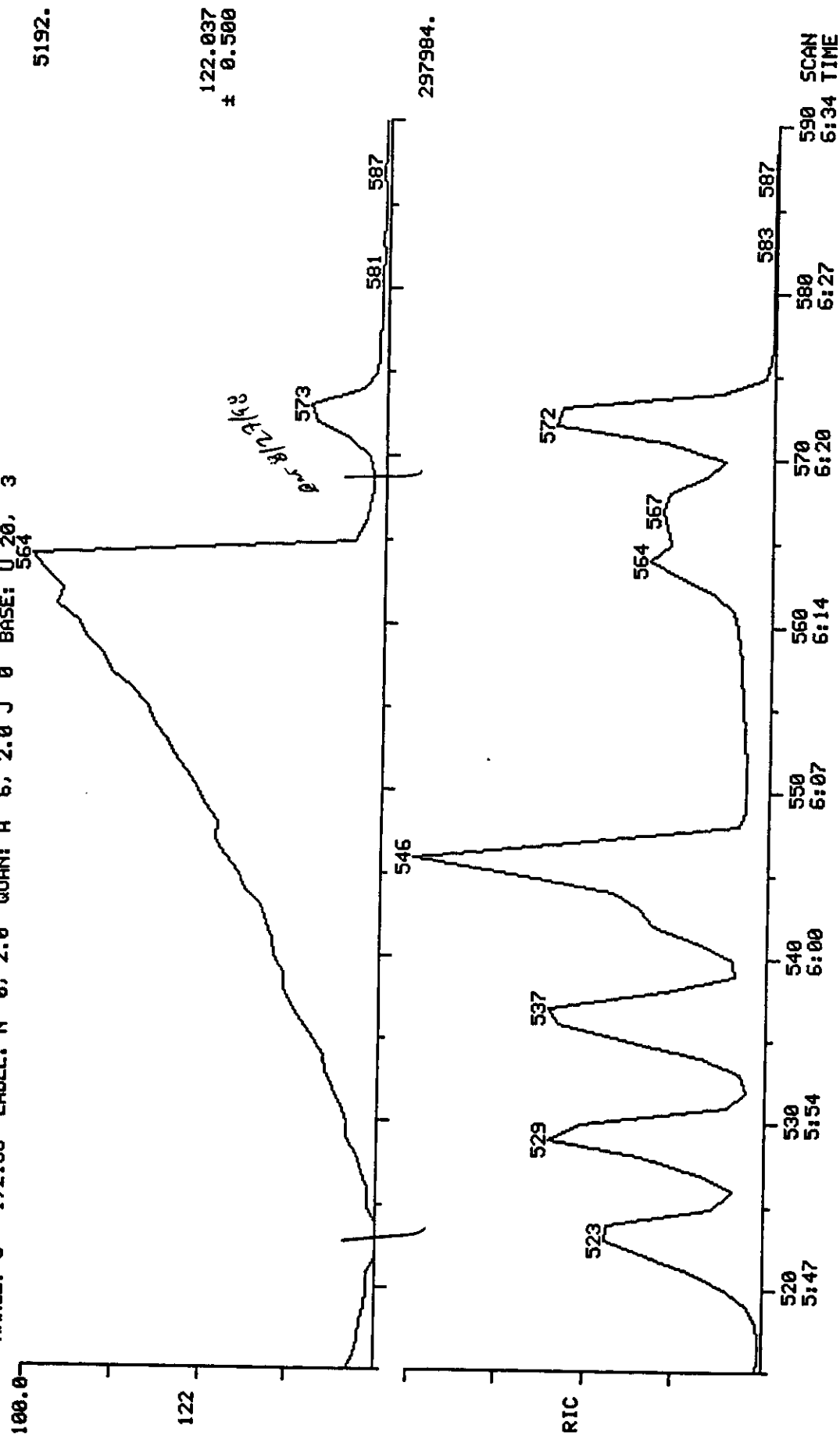
CONDOS: INST. ID: F16

RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

SCANS 515 TO 590

DATA: ST169808270 #1

CALI: ST169808270 #3



MASS CHROMATOGRAMS
 08/27/98 11:20:00
 DATA: ST169808270 #1
 CALI: ST169808270 #3
 SAMPLE: SSTD120 120UG/ML CALI II 070698H
 CONDS.: INST. ID: F16
 RANGE: G 1,2158 LABEL: N 2, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

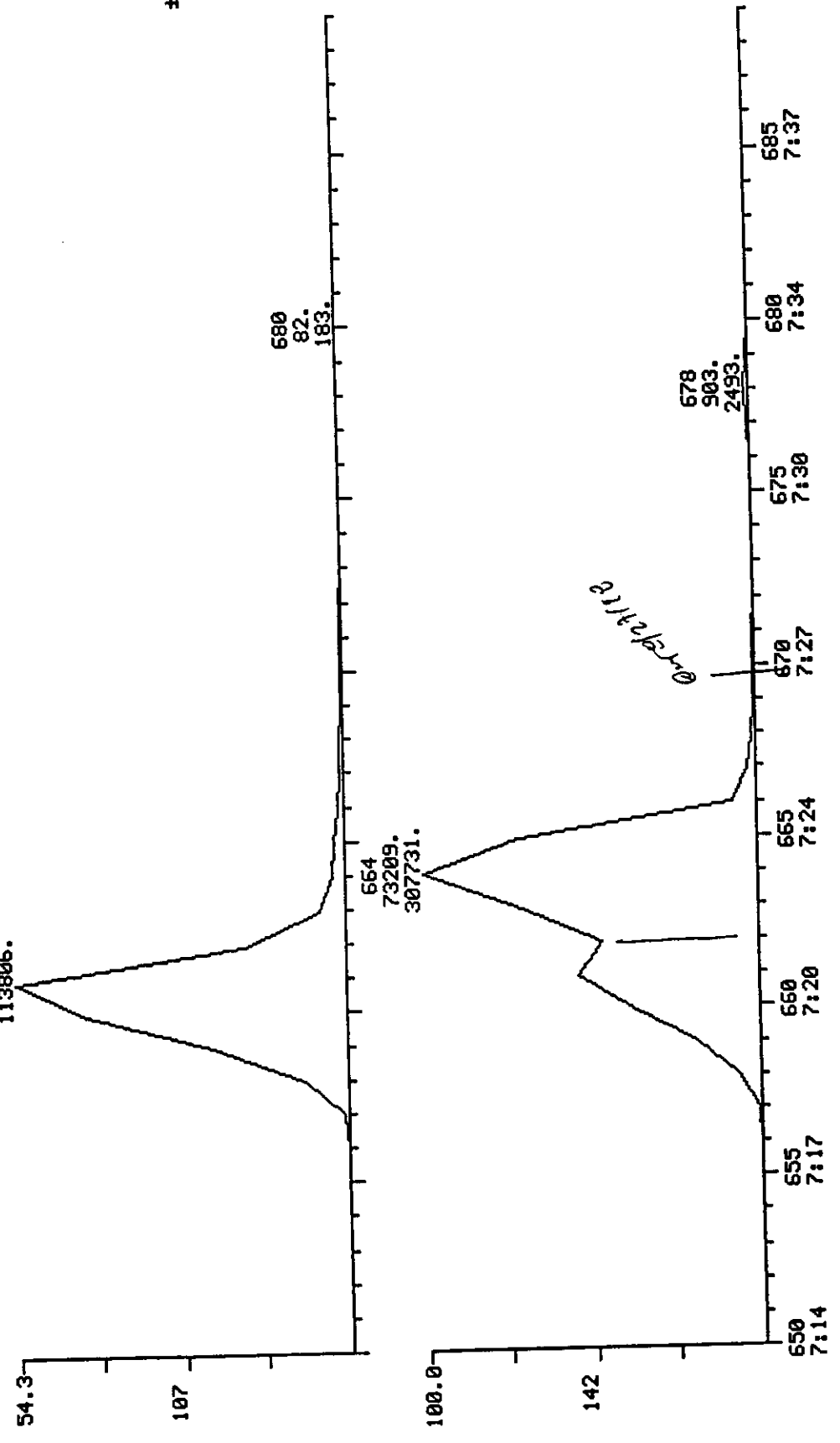
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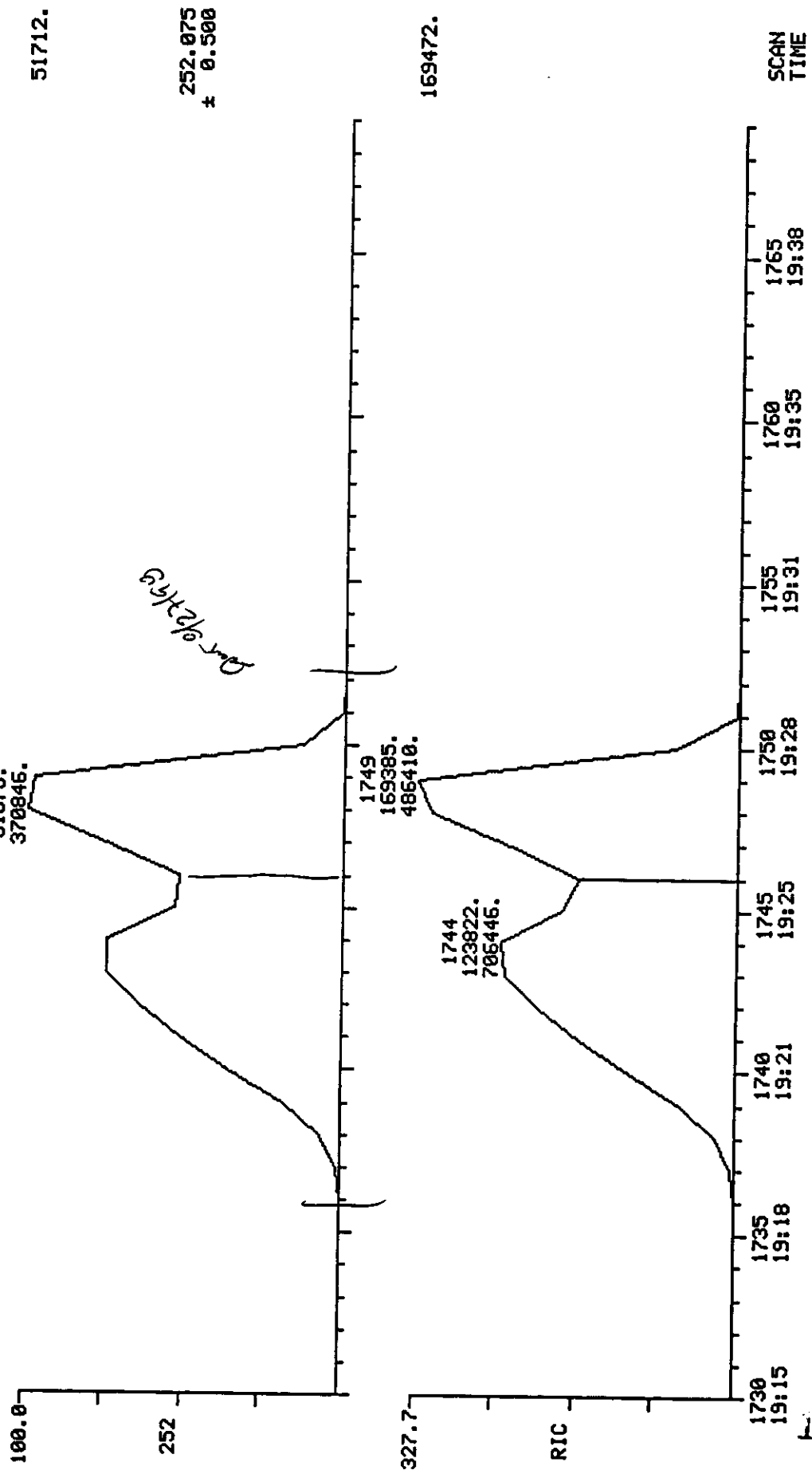
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SCAN
TIME

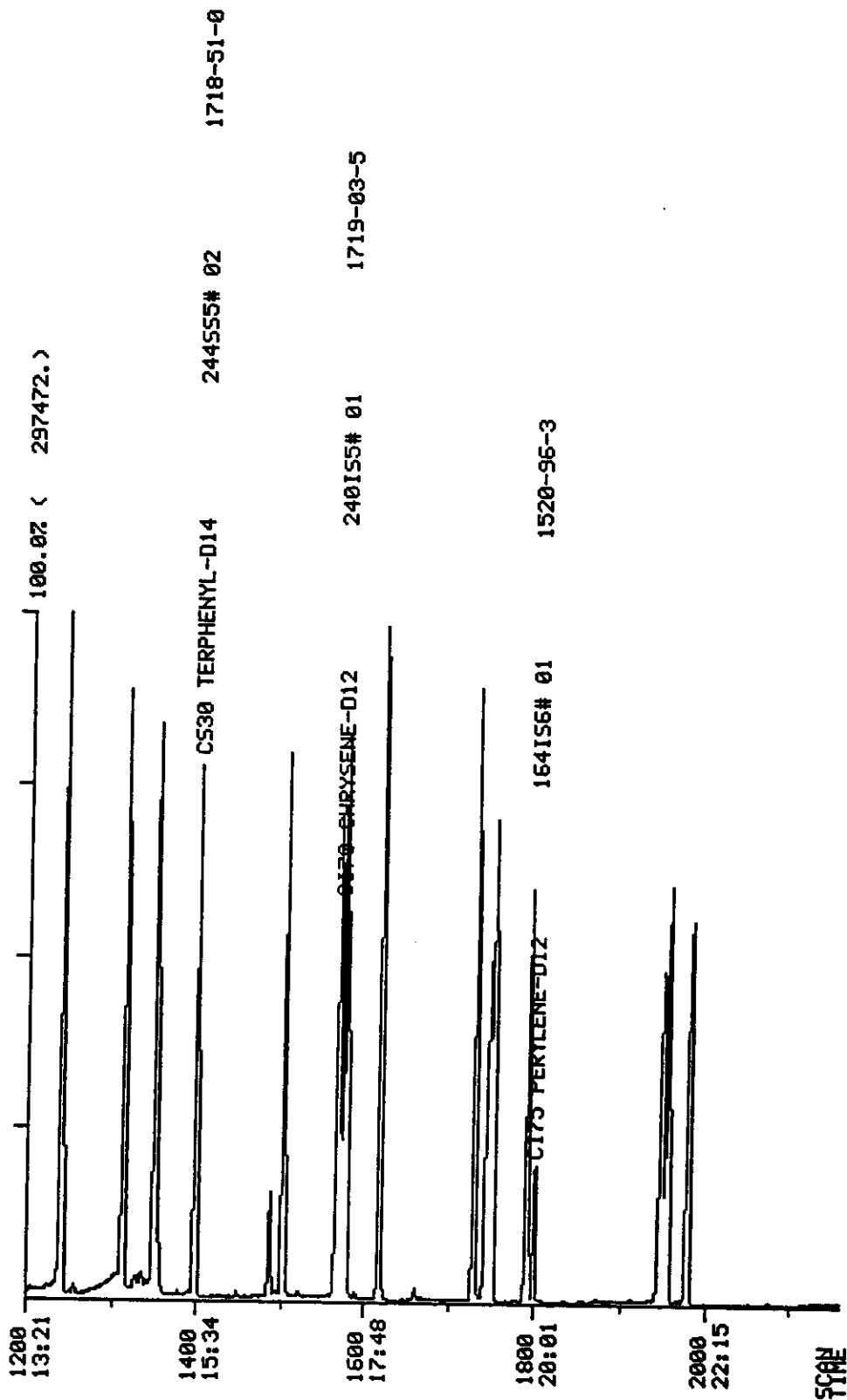


RIC+MASS CHROMATOGRAM
 08/27/98 11:20:00 DATA: ST16980827D #1
 CALI: ST16980827D #3
 SAMPLE: SSTD120 120UG/ML CALI II 070698H
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 2, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3



1520

DATA FROM FILE: ST16980827E SCANS 1200 TO 2158 ACQUIRED: 08/27/98 11:50:00
 SAMPLE: SST0160 160UG/ML CALI I 0706981
 COND.: INST. ID: F16



Quantitation Report File: ST16980827E

Data: ST16980827E.TI

08/27/98 11:50:00

Sample: SSTD160 160UG/ML CALI I 070698I

Conds.: INST. ID: F16

Formula: 1UL INJ. Instrument: F16

Submitted by: QES Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
1	CI30 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	CI40 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	CI50 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	CI60 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	CI70 CHRYSENE-D12	240IS5# 01	1719-03-5
6	CI75 PERYLENE-D12	164IS6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS45 PHENOL-D5	99SS1# 03	4165-62-2
11	CS50 2-FLUOROPHENOL	112SS1# 02	367-12-4
12	CS55 2,4,6-TRIBROMOPHENOL	330SS3# 02	118-79-6
13	CS70 2-CHLOROPHENOL-D4	132 S1# 05	
14	CS75 1,2-DICHLOROBENZENE-D4	152 S1# 06	
15	HEXACHLOROBENZENE-C13		
16	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
17	C320 ANILINE	93 S1#100	62-53-3
18	C315 PHENOL	94 S1#105CC	108-95-2
19	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
20	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
21	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
22	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
23	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
24	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
25	C355 2-METHYLPHENOL	108 S1#160	95-48-7
26	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
27	C365 4-METHYLPHENOL	108 S1#185	106-44-5
28	C370 N-NITROSO-DI-N-PROPYLAM	70 S1#190SP	621-64-7
29	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
30	C410 NITROBENZENE	77 S2# 10	98-95-3
31	C415 ISOPHORONE	82 S2# 20	75-59-1
32	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
33	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
34	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
35	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
36	C430 BENZOIC ACID	122 S2# 45	65-85-0
37	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
38	C450 NAPHTHALENE	128 S2# 60	91-20-3
39	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
40	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
41	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
42	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
43	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
44	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
45	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
46	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
47	C530 2-NITROANILINE	65 S3# 45	88-74-4

No	Name		
48	C535 DIMETHYLPHthalate	163 S3# 55	131-11-3
49	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
50	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	352	3:55	1	1.000	A BB	32486.	40.000 UG/ML	0.31
2	136	544	6:03	2	1.000	A BB	124189.	40.000 UG/ML	0.31
3	164	842	9:22	3	1.000	A BB	71932.	40.000 UG/ML	0.31
4	188	1101	12:15	4	1.000	A BB	116804.	40.000 UG/ML	0.31
5	240	1568	17:26	5	1.000	A BB	60904.	40.000 UG/ML	0.31
6	264	1798	20:00	6	1.000	A BB	50722.	40.000 UG/ML	0.31
7	82	437	4:52	2	0.803	A BB	224354.	160.000 UG/ML	1.26
8	172	737	8:12	3	0.875	A BB	321084.	160.000 UG/ML	1.26
9	244	1398	15:33	5	0.892	A VB	248225.	160.000 UG/ML	1.26
10	99	322	3:35	1	0.915	A BB	256146.	160.000 UG/ML	1.26
11	112	205	2:17	1	0.582	A BB	181194.	160.000 UG/ML	1.26
12	330	985	10:57	3	1.170	A BB	62460.	160.000 UG/ML	1.26
13	132	325	3:37	1	0.923	A BB	182800.	160.000 UG/ML	1.26
14	152	372	4:08	1	1.057	A BB	114576.	160.000 UG/ML	1.26
15	NOT FOUND								
16	74	109	1:13	1	0.310	A BB	135427.	160.000 UG/ML	1.26
17	93	312	3:28	1	0.886	A BV	217517.	160.000 UG/ML	1.26
18	94	323	3:36	1	0.918	A BB	257557.	160.000 UG/ML	1.26
19	93	328	3:39	1	0.932	A BB	163916.	160.000 UG/ML	1.26
20	128	327	3:38	1	0.929	A BB	188486.	160.000 UG/ML	1.26
21	146	343	3:49	1	0.974	A BV	196267.	160.000 UG/ML	1.26
22	146	354	3:56	1	1.006	A VB	197247.	160.000 UG/ML	1.26
23	108	383	4:16	1	1.088	A BB	119784.	160.000 UG/ML	1.26
24	146	374	4:10	1	1.062	A BB	183117.	160.000 UG/ML	1.26
25	108	403	4:29	1	1.145	A BB	157686.	160.000 UG/ML	1.26
26	45	401	4:28	1	1.139	A BB	323096.	160.000 UG/ML	1.26
27	108	431	4:48	1	1.224	A BB	175498.	160.000 UG/ML	1.26
28	70	426	4:44	1	1.210	A BV	115670.	160.000 UG/ML	1.26
29	117	420	4:40	1	1.193	A BB	91776.	160.000 UG/ML	1.26
30	77	440	4:54	2	0.809	A VB	203653.	160.000 UG/ML	1.26
31	82	484	5:23	2	0.890	qedt(1)	351500.	160.000 UG/ML	1.26
32	139	487	5:25	2	0.895	A BB	108037.	160.000 UG/ML	1.26
33	107	512	5:42	2	0.941	A BB	175563.	160.000 UG/ML	1.26
34	93	525	5:50	2	0.965	A BB 3	247182.	160.000 UG/ML	1.26
35	162	531	5:54	2	0.976	A BB 3	151820.	160.000 UG/ML	1.26
36	122	571	6:21	2	1.050	qedt(2)	145098.	160.000 UG/ML	1.26
37	180	538	5:59	2	0.989	A BB	154240.	160.000 UG/ML	1.26
38	128	548	6:06	2	1.007	A BB	464474.	160.000 UG/ML	1.26
39	127	570	6:20	2	1.048	A BB	225820.	160.000 UG/ML	1.26
40	225	573	6:22	2	1.053	A BV	78174.	160.000 UG/ML	1.26
41	107	662	7:22	2	1.217	A BB	172070.	160.000 UG/ML	1.26
42	142	666	7:24	2	1.224	qedt(2)	317611.	160.000 UG/ML	1.26
43	237	694	7:43	3	0.824	A BB	94850.	160.000 UG/ML	1.26
44	196	722	8:02	3	0.857	A BV	128899.	160.000 UG/ML	1.26
45	196	727	8:05	3	0.863	A VB	105318.	160.000 UG/ML	1.26
46	162	748	8:19	3	0.888	A BB	313318.	160.000 UG/ML	1.26
47	65	777	8:39	3	0.923	A BB	143092.	160.000 UG/ML	1.26
48	163	822	9:09	3	0.976	A BB	359876.	160.000 UG/ML	1.26
49	152	817	9:05	3	0.970	A BB	480732.	160.000 UG/ML	1.26
50	165	828	9:13	3	0.983	qedt(2)	91334.	160.000 UG/ML	1.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:54	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:01	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:49	1.01	0.800	1.00	160.00	160.00	0.452	0.452	1.00
8	8:11	1.00	0.875	1.00	160.00	160.00	1.116	1.116	1.00
9	15:32	1.00	0.891	1.00	160.00	160.00	1.019	1.019	1.00
10	3:32	1.02	0.906	1.01	160.00	160.00	1.971	1.971	1.00
11	2:15	1.01	0.580	1.00	160.00	160.00	1.394	1.394	1.00
12	10:55	1.00	1.168	1.00	160.00	160.00	0.217	0.217	1.00
13	3:34	1.01	0.917	1.01	160.00	160.00	1.407	1.407	1.00
14	4:07	1.01	1.057	1.00	160.00	160.00	0.882	0.882	1.00
15	12:39		0.941						
16	1:12	1.01	0.309	1.00	160.00	160.00	1.042	1.042	1.00
17	3:27	1.01	0.886	1.00	160.00	160.00	1.674	1.674	1.00
18	3:33	1.01	0.911	1.01	160.00	160.00	1.982	1.982	1.00
19	3:36	1.01	0.926	1.01	160.00	160.00	1.261	1.261	1.00
20	3:36	1.01	0.926	1.00	160.00	160.00	1.451	1.451	1.00
21	3:48	1.01	0.974	1.00	160.00	160.00	1.510	1.510	1.00
22	3:55	1.01	1.006	1.00	160.00	160.00	1.518	1.518	1.00
23	4:13	1.01	1.083	1.00	160.00	160.00	0.922	0.922	1.00
24	4:08	1.01	1.063	1.00	160.00	160.00	1.409	1.409	1.00
25	4:27	1.01	1.143	1.00	160.00	160.00	1.213	1.213	1.00
26	4:26	1.01	1.140	1.00	160.00	160.00	2.486	2.486	1.00
27	4:44	1.01	1.217	1.01	160.00	160.00	1.351	1.351	1.00
28	4:40	1.01	1.200	1.01	160.00	160.00	0.890	0.890	1.00
29	4:39	1.00	1.194	1.00	160.00	160.00	0.706	0.706	1.00
30	4:51	1.01	0.806	1.00	160.00	160.00	0.410	0.410	1.00
31	5:19	1.01	0.884	1.01	160.00	160.00	0.708	0.708	1.00
32	5:24	1.00	0.896	1.00	160.00	160.00	0.217	0.217	1.00
33	5:39	1.01	0.939	1.00	160.00	160.00	0.353	0.353	1.00
34	5:48	1.01	0.965	1.00	160.00	160.00	0.498	0.498	1.00
35	5:52	1.01	0.974	1.00	160.00	160.00	0.306	0.306	1.00
36	6:10	1.03	1.024	1.03	160.00	160.00	0.292	0.292	1.00
37	5:57	1.01	0.989	1.00	160.00	160.00	0.310	0.310	1.00
38	6:04	1.01	1.007	1.00	160.00	160.00	0.935	0.935	1.00
39	6:16	1.01	1.043	1.01	160.00	160.00	0.455	0.455	1.00
40	6:22	1.00	1.057	1.00	160.00	160.00	0.157	0.157	1.00
41	7:20	1.00	1.220	1.00	160.00	160.00	0.346	0.346	1.00
42	7:22	1.00	1.226	1.00	160.00	160.00	0.639	0.639	1.00
43	7:42	1.00	0.824	1.00	160.00	160.00	0.330	0.330	1.00
44	8:00	1.00	0.856	1.00	160.00	160.00	0.448	0.448	1.00
45	8:03	1.00	0.862	1.00	160.00	160.00	0.366	0.366	1.00
46	8:17	1.00	0.887	1.00	160.00	160.00	1.089	1.089	1.00
47	8:37	1.00	0.921	1.00	160.00	160.00	0.497	0.497	1.00
48	9:06	1.00	0.974	1.00	160.00	160.00	1.251	1.251	1.00
49	9:03	1.00	0.969	1.00	160.00	160.00	1.671	1.671	1.00
50	9:09	1.01	0.980	1.00	160.00	160.00	0.317	0.317	1.00

Quantitation Report File: ST16980827E

Data: ST16980827E.T1

08/27/98 11:50:00

Sample: SSTD160 160UG/ML CALI I 070698I

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
51	C545 3-NITROANILINE	138 S3# 75	99-09-2
52	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
53	C555 2,4-DINITROPHENOL	184 S3# 85SP	51-28-5
54	C565 DIBENZOFURAN	168 S3# 90	132-64-9
55	C560 4-NITROPHENOL	109 S3# 95SP	100-02-7
56	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
57	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2
58	C590 FLUORENE	166 S3#135	86-73-7
59	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
60	C595 4-NITROANILINE	138 S3#150	100-01-6
61	C610 4,6-DINITRO-2-METHYLPH	198 S4# 10	534-52-1
62	C615 N-NITROSODIPHENYLAMINE	169 S4# 15CC	87-30-6
63	C620 AZOBENZENE	77 S4# 20	103-33-3
64	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
65	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
66	C635 PENTACHLOROPHENOL	266 S4# 50	87-86-5
67	C640 PHENANTHRENE	178 S4# 65	85-01-8
68	C645 ANTHRACENE	178 S4# 70	120-12-7
69	C647 CARBAZOLE	167 S4# 80	86-74-8
70	C650 DI-N-BUTYLPHTHALATE	149 S4# 85	84-74-2
71	C655 FLUORANTHENE	202 S4#110CC	206-44-0
72	C710 BENZIDINE	184 S5# 10	92-81-5
73	C715 PYRENE	202 S5# 15	129-00-0
74	C720 BUTYLBENZYLPHTHALATE	149 S5# 40	85-68-7
75	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
76	C725 3,3'-DICHLOROBENZIDINE	252 S5# 55	91-94-1
77	C740 CHRYSENE	228 S5# 60	218-01-9
78	C745 BIS(2-ETHYLHEXYL)PHTHA	149 S5# 65	117-81-7
79	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
80	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
81	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
82	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
83	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
84	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
85	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	138	853	9:29	3	1.013	A BB	108951.	160.000 UG/ML	1.26
52	153	849	9:27	3	1.008	A BB	306695.	160.000 UG/ML	1.26
53	184	872	9:42	3	1.036	A BB	56407.	160.000 UG/ML	1.26
54	168	881	9:48	3	1.046	A BB	449013.	160.000 UG/ML	1.26
55	109	901	10:01	3	1.070	qedt (2)	48707.	160.000 UG/ML	1.26
56	165	896	9:58	3	1.064	A BB	108669.	160.000 UG/ML	1.26
57	149	950	10:34	3	1.128	qedt (2)	347720.	160.000 UG/ML	1.26
58	166	941	10:28	3	1.118	A BV	341839.	160.000 UG/ML	1.26

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	204	951	10:35	3	1.129	A BB	165442.	160.000 UG/ML	1.26
60	138	965	10:44	3	1.146	qedt	92245.	160.000 UG/ML	1.26
61	198	969	10:47	4	0.880	qedt	60946.	160.000 UG/ML	1.26
62	169	978	10:53	4	0.888	A BB	244263.	160.000 UG/ML	1.26
63	77	979	10:53	4	0.889	A BB	541010.	160.000 UG/ML	1.26
64	248	1035	11:31	4	0.940	A BB	98271.	160.000 UG/ML	1.26
65	284	1034	11:30	4	0.939	A BB	112917.	160.000 UG/ML	1.26
66	266	1076	11:58	4	0.977	A BB	68614.	160.000 UG/ML	1.26
67	178	1106	12:18	4	1.005	A BV	471716.	160.000 UG/ML	1.26
68	178	1115	12:24	4	1.013	A VB	378128.	160.000 UG/ML	1.26
69	167	1153	12:49	4	1.047	A BB	327617.	160.000 UG/ML	1.26
70	149	1241	13:48	4	1.127	A BB	504598.	160.000 UG/ML	1.26
71	202	1314	14:37	4	1.193	A BB	334270.	160.000 UG/ML	1.26
72	184	1353	15:03	5	0.863	A BB	32031.	160.000 UG/ML	1.26
73	202	1350	15:01	5	0.861	A BB	330800.	160.000 UG/ML	1.26
74	149	1502	16:42	5	0.958	A BB	178737.	160.000 UG/ML	1.26
75	228	1566	17:25	5	0.999	A VV	265942.	160.000 UG/ML	1.26
76	252	1577	17:32	5	1.006	A BB	95194.	160.000 UG/ML	1.26
77	228	1573	17:30	5	1.003	A VB	223869.	160.000 UG/ML	1.26
78	149	1617	17:59	5	1.031	A BB	265391.	160.000 UG/ML	1.26
79	149	1729	19:14	6	0.962	A BB	410452.	160.000 UG/ML	1.26
80	252	1745	19:25	6	0.971	A BV	286447.	160.000 UG/ML	1.26
81	252	1750	19:28	6	0.973	A VB	190774.	160.000 UG/ML	1.26
82	252	1792	19:56	6	0.997	A BB	219973.	160.000 UG/ML	1.26
83	276	1947	21:39	6	1.083	A BV	232127.	160.000 UG/ML	1.26
84	278	1954	21:44	6	1.087	A BB	224248.	160.000 UG/ML	1.26
85	276	1980	22:01	6	1.101	A BB	231038.	160.000 UG/ML	1.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:26	1.01	1.010	1.00	160.00	160.00	0.379	0.379	1.00
52	9:25	1.00	1.007	1.00	160.00	160.00	1.066	1.066	1.00
53	9:39	1.01	1.032	1.00	160.00	160.00	0.196	0.196	1.00
54	9:46	1.00	1.045	1.00	160.00	160.00	1.561	1.561	1.00
55	9:59	1.00	1.068	1.00	160.00	160.00	0.169	0.169	1.00
56	9:55	1.01	1.061	1.00	160.00	160.00	0.378	0.378	1.00
57	10:31	1.00	1.126	1.00	160.00	160.00	1.209	1.209	1.00
58	10:26	1.00	1.117	1.00	160.00	160.00	1.188	1.188	1.00
59	10:33	1.00	1.130	1.00	160.00	160.00	0.575	0.575	1.00
60	10:39	1.01	1.139	1.01	160.00	160.00	0.321	0.321	1.00
61	10:42	1.01	0.875	1.01	160.00	160.00	0.130	0.130	1.00
62	10:50	1.00	0.886	1.00	160.00	160.00	0.523	0.523	1.00
63	10:51	1.00	0.888	1.00	160.00	160.00	1.158	1.158	1.00
64	11:29	1.00	0.940	1.00	160.00	160.00	0.210	0.210	1.00
65	11:29	1.00	0.939	1.00	160.00	160.00	0.242	0.242	1.00
66	11:57	1.00	0.977	1.00	160.00	160.00	0.147	0.147	1.00
67	12:17	1.00	1.005	1.00	160.00	160.00	1.010	1.010	1.00
68	12:22	1.00	1.012	1.00	160.00	160.00	0.809	0.809	1.00
69	12:47	1.00	1.046	1.00	160.00	160.00	0.701	0.701	1.00
70	13:47	1.00	1.127	1.00	160.00	160.00	1.080	1.080	1.00
71	14:36	1.00	1.194	1.00	160.00	160.00	0.715	0.715	1.00
72	15:03	1.00	0.864	1.00	160.00	160.00	0.131	0.131	1.00
73	15:00	1.00	0.861	1.00	160.00	160.00	1.358	1.358	1.00
74	16:41	1.00	0.958	1.00	160.00	160.00	0.734	0.734	1.00
75	17:24	1.00	0.999	1.00	160.00	160.00	1.092	1.092	1.00
76	17:31	1.00	1.006	1.00	160.00	160.00	0.391	0.391	1.00
77	17:28	1.00	1.003	1.00	160.00	160.00	0.919	0.919	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	17:58	1.00	1.032	1.00	160.00	160.00	1.089	1.089	1.00
79	19:13	1.00	0.961	1.00	160.00	160.00	2.023	2.023	1.00
80	19:23	1.00	0.969	1.00	160.00	160.00	1.412	1.412	1.00
81	19:26	1.00	0.972	1.00	160.00	160.00	0.940	0.940	1.00
82	19:54	1.00	0.996	1.00	160.00	160.00	1.084	1.084	1.00
83	21:38	1.00	1.082	1.00	160.00	160.00	1.144	1.144	1.00
84	21:43	1.00	1.086	1.00	160.00	160.00	1.105	1.105	1.00
85	21:59	1.00	1.100	1.00	160.00	160.00	1.139	1.139	1.00

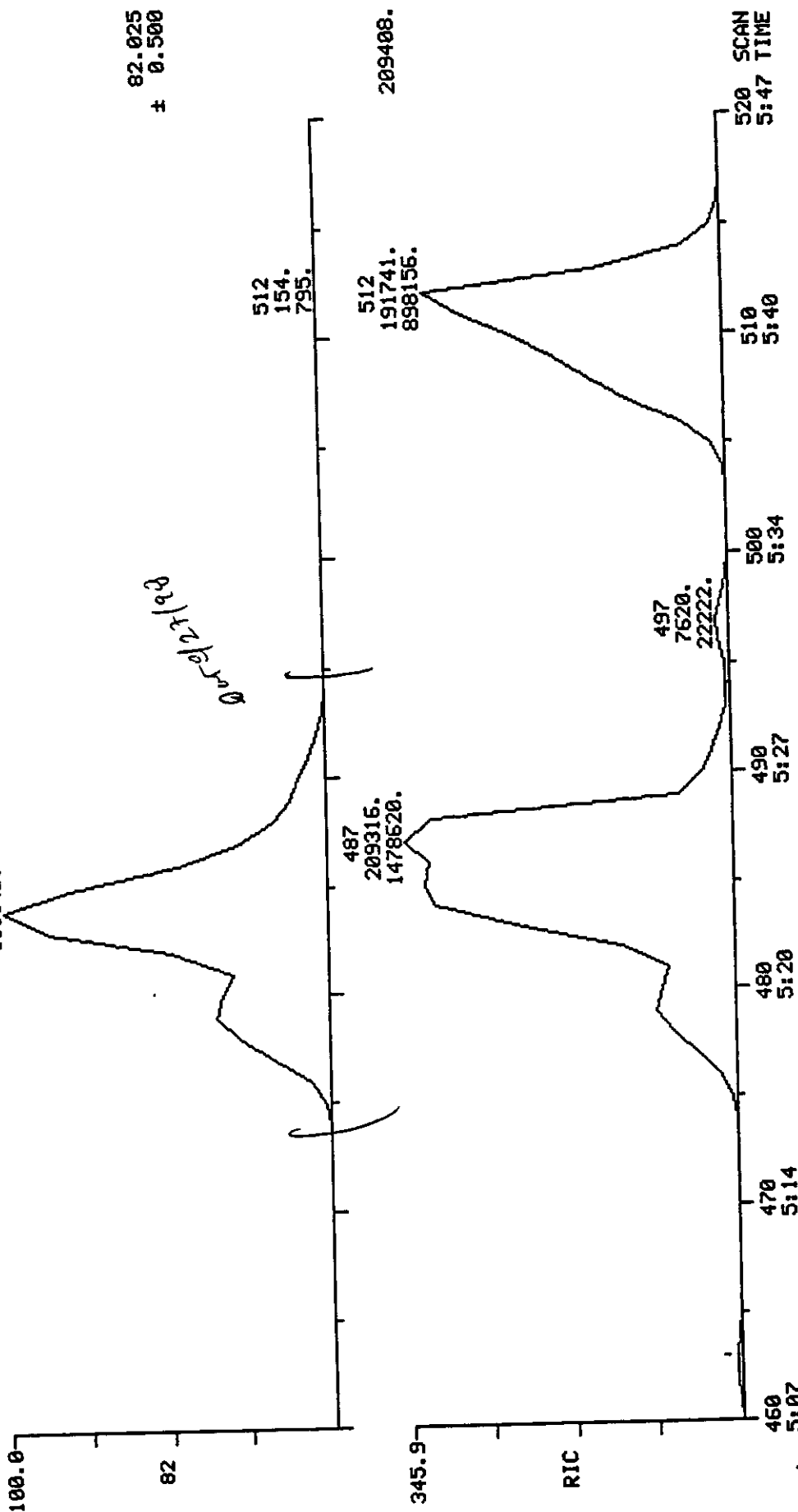
MANUAL EDIT CODES
 1. PEAK NOT FOUND
 2. POOR CHROMATOGRAPHY
 3. WRONG ISOMER
 ALL MANUAL EDITS MUST BE
 INITIALED, DATED, AND CODED

RIC+MASS CHROMATOGRAM
 08/27/98 11:50:00
 DATA: ST16980827E #1
 CALI: ST16980827E #3
 SAMPLE: SSTD160 160UG/ML CALI 1 0706381
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 2, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3
 484
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60544.

82.025
± 0.500

209408.



1523

RIC+MASS CHROMATOGRAM

08/27/98 11:50:00

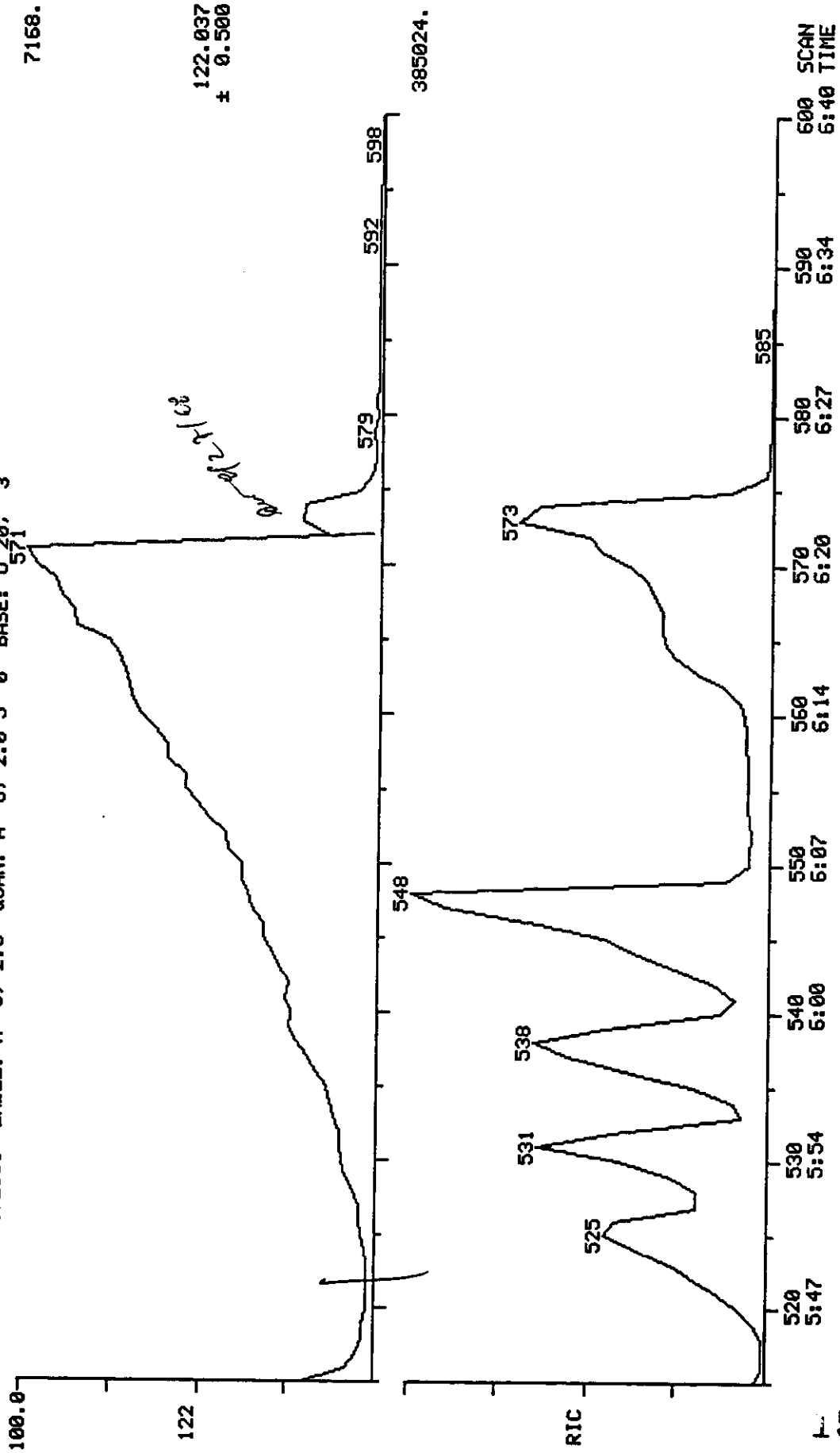
DATA: ST16980827E #1

CALI: ST16980827E #3

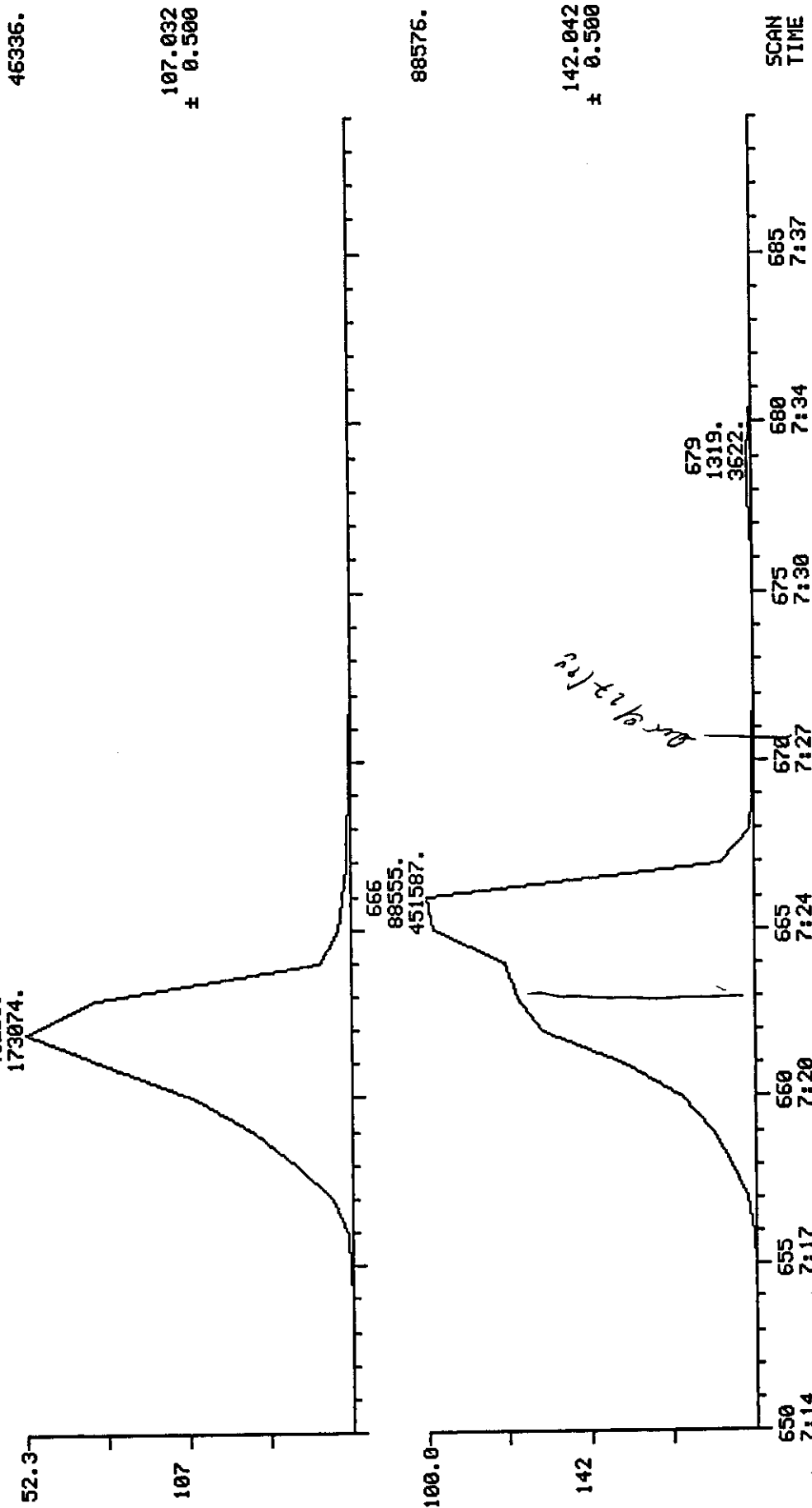
SAMPLE: SST0160 160UG/ML CALI I 0706981

COND.: INST. ID: F16

RANGE: G 1.2158 LABEL: N 0.2.0 QUAN: A 6.2.0 J 0 BASE: U 20. 3

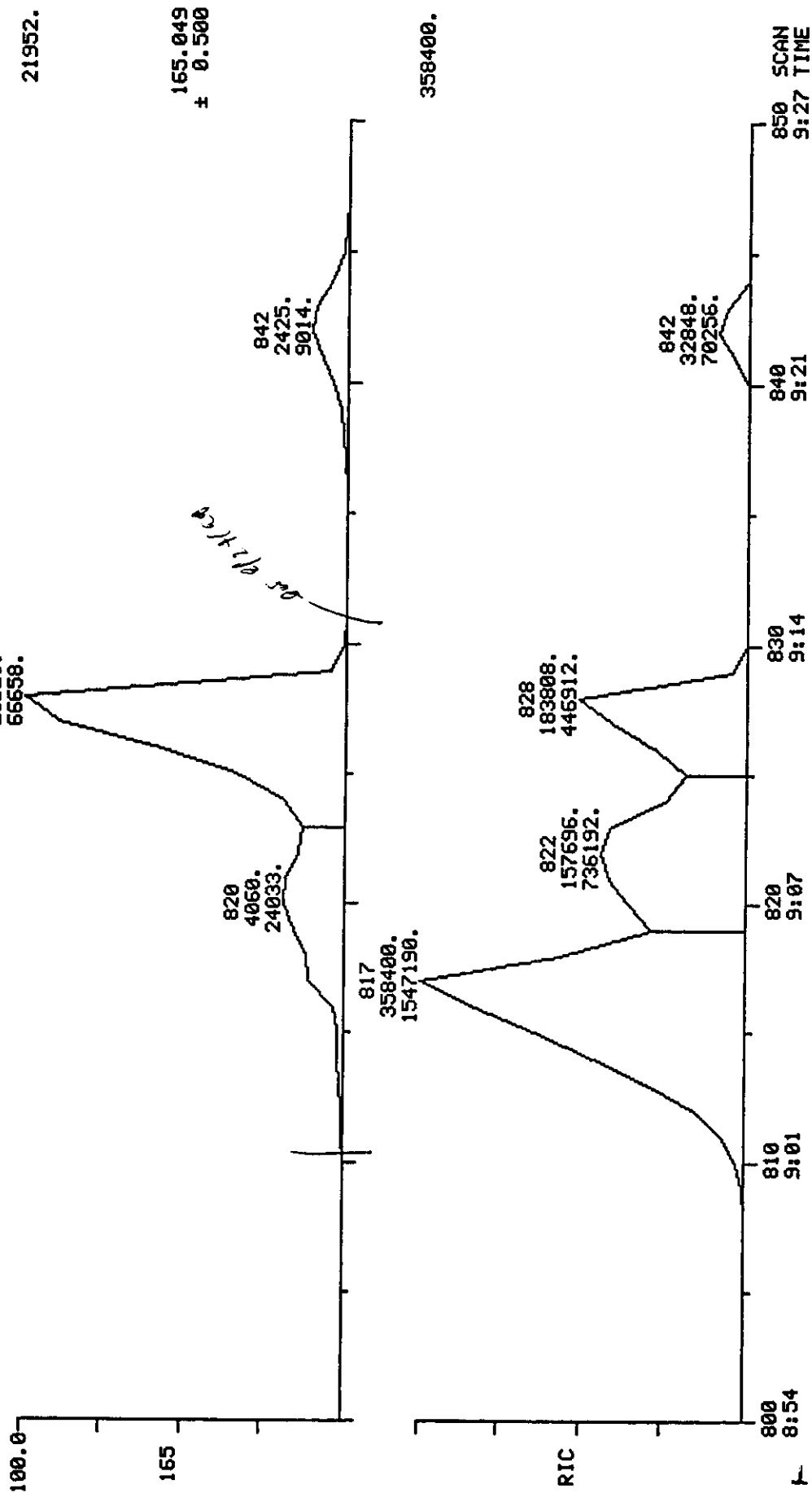


MASS CHROMATOGRAMS
 08/27/98 11:50:00
 DATA: ST16980827E #1
 CALI: ST16980827E #3
 SAMPLE: SSTD160 160UG/ML CALI I 0706981
 CONDS.: INST. ID: F16
 RANGE: G 1,2158 LABEL: N 2, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3



1531

RIC+MASS CHROMATOGRAM
 08/27/98 11:50:00
 DATA: ST16980827E #1
 CALI: ST16980827E #3
 SAMPLE: SST0160 160UG/ML CALI I 0706981
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 2, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3



SCANS 870 TO 930

DATA: ST16980827E #1
CALI: ST16980827E #3

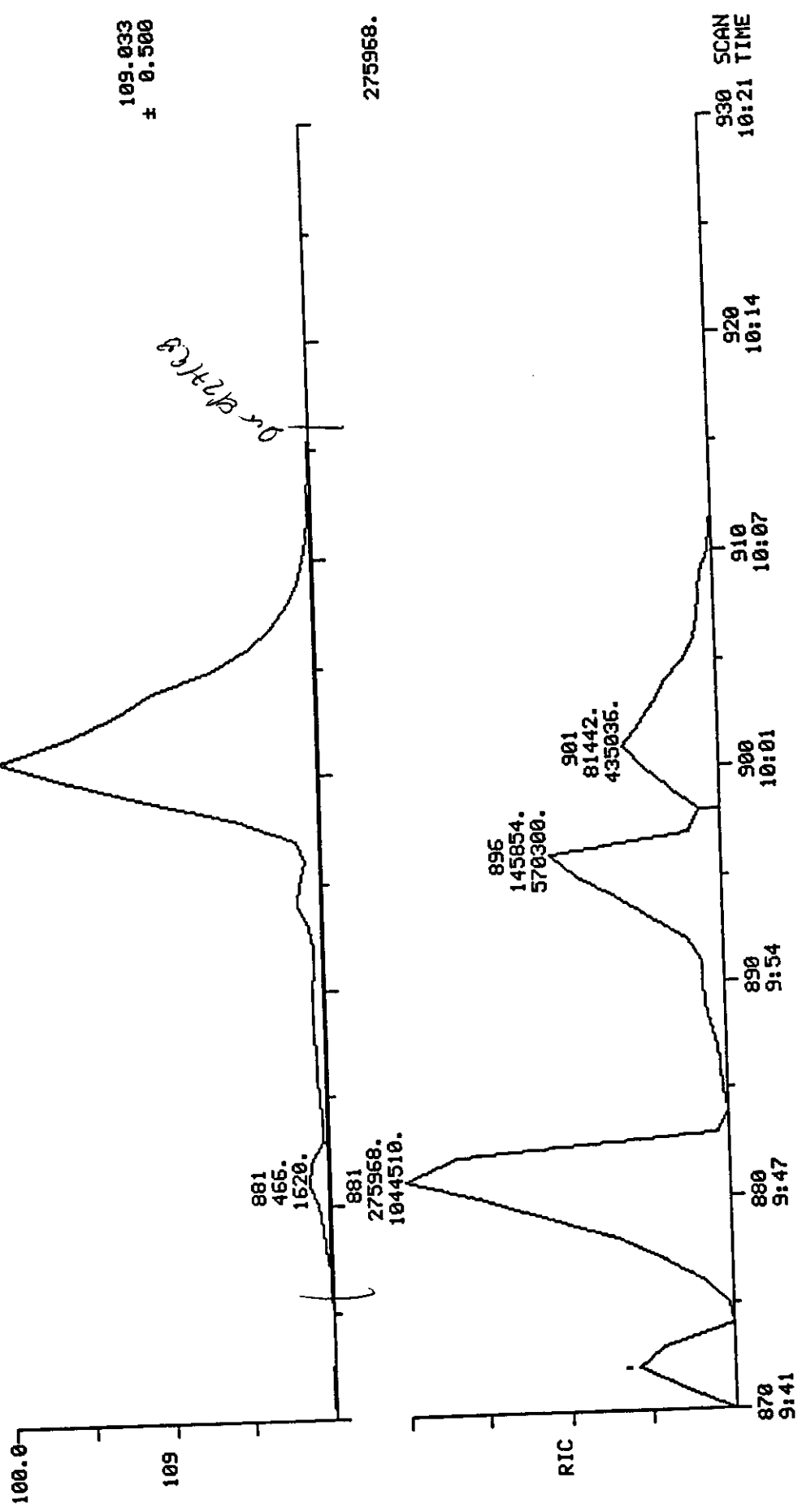
RIC+MASS CHROMATOGRAM

08/27/98 11:50:00
SAMPLE: SST0160 160UG/ML CALI I 0706981
CONDS.: INST. ID: F16
RANGE: G 1.2158 LABEL: N 2.2.0 QUAN: A 6.2.0 J 0 BASE: U 20. 3

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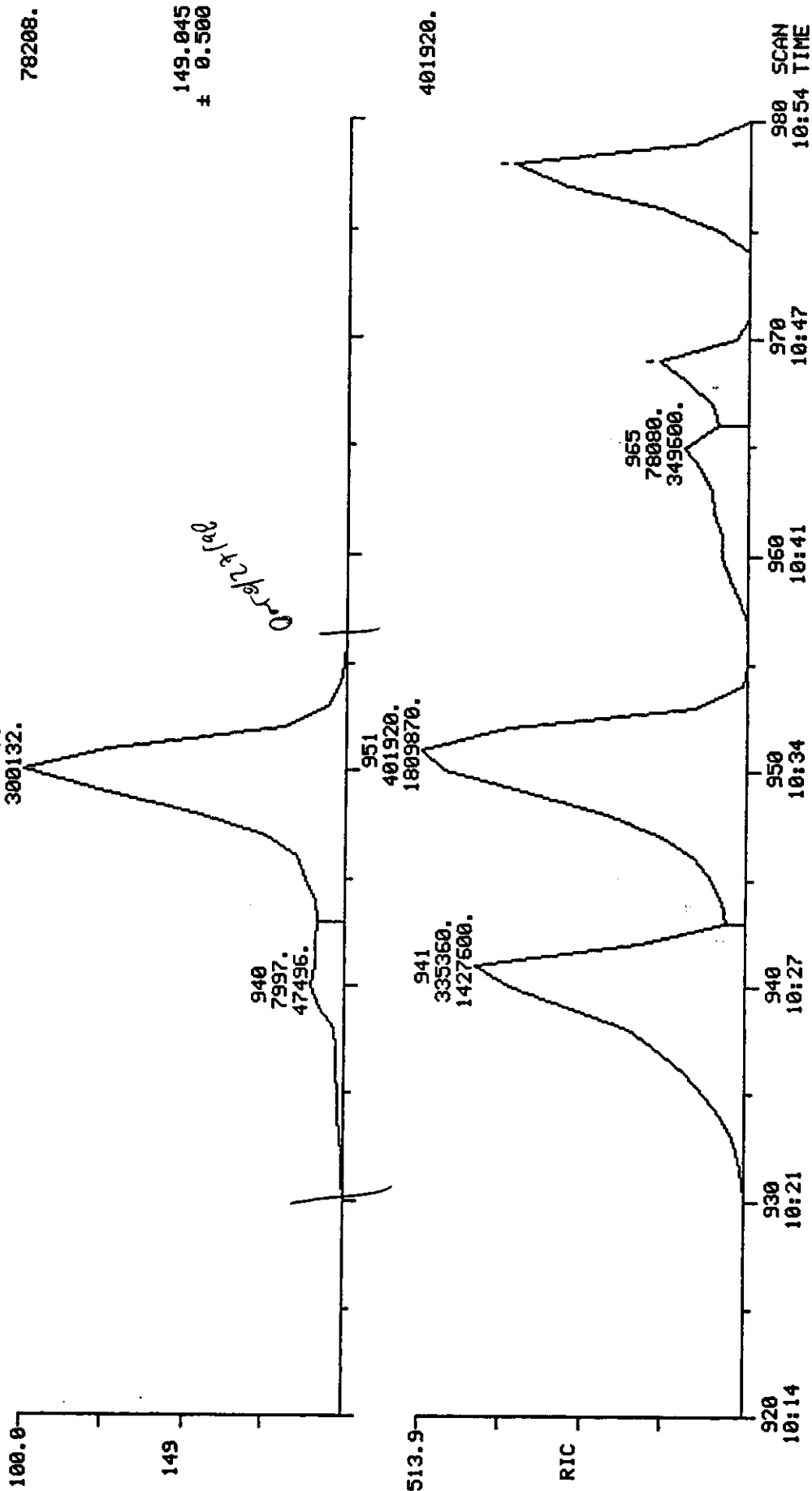
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± 0.500

275968.



1500

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 DATA: ST16980827E #1
 CALI: ST16980827E #3
 SAMPLE: SSTD160 160UG/ML CALI I 0706981
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 2, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3



RIC+MASS CHROMATOGRAM

DATA: ST16980827E #1
CALI: ST16980827E #3

08/27/98 11:50:00

SAMPLE: SSTD160 160UG/ML CALI I 0706981

CONDS.: INST. ID: F16

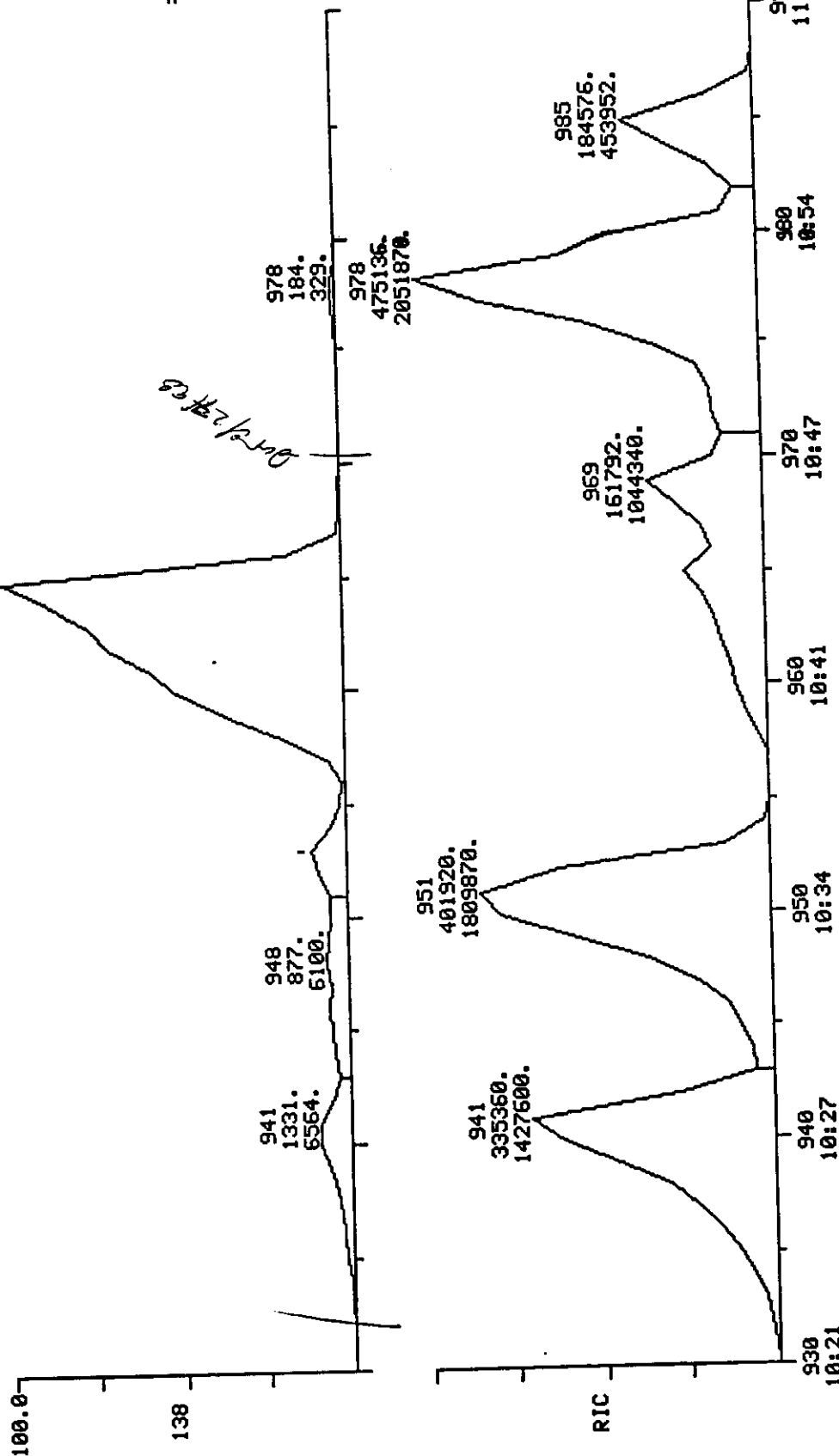
RANGE: G 1.2158 LABEL: N 2. 2.0 QUAN: A 6. 2.0 J 0 BASE: U 20. 3

14

100.0

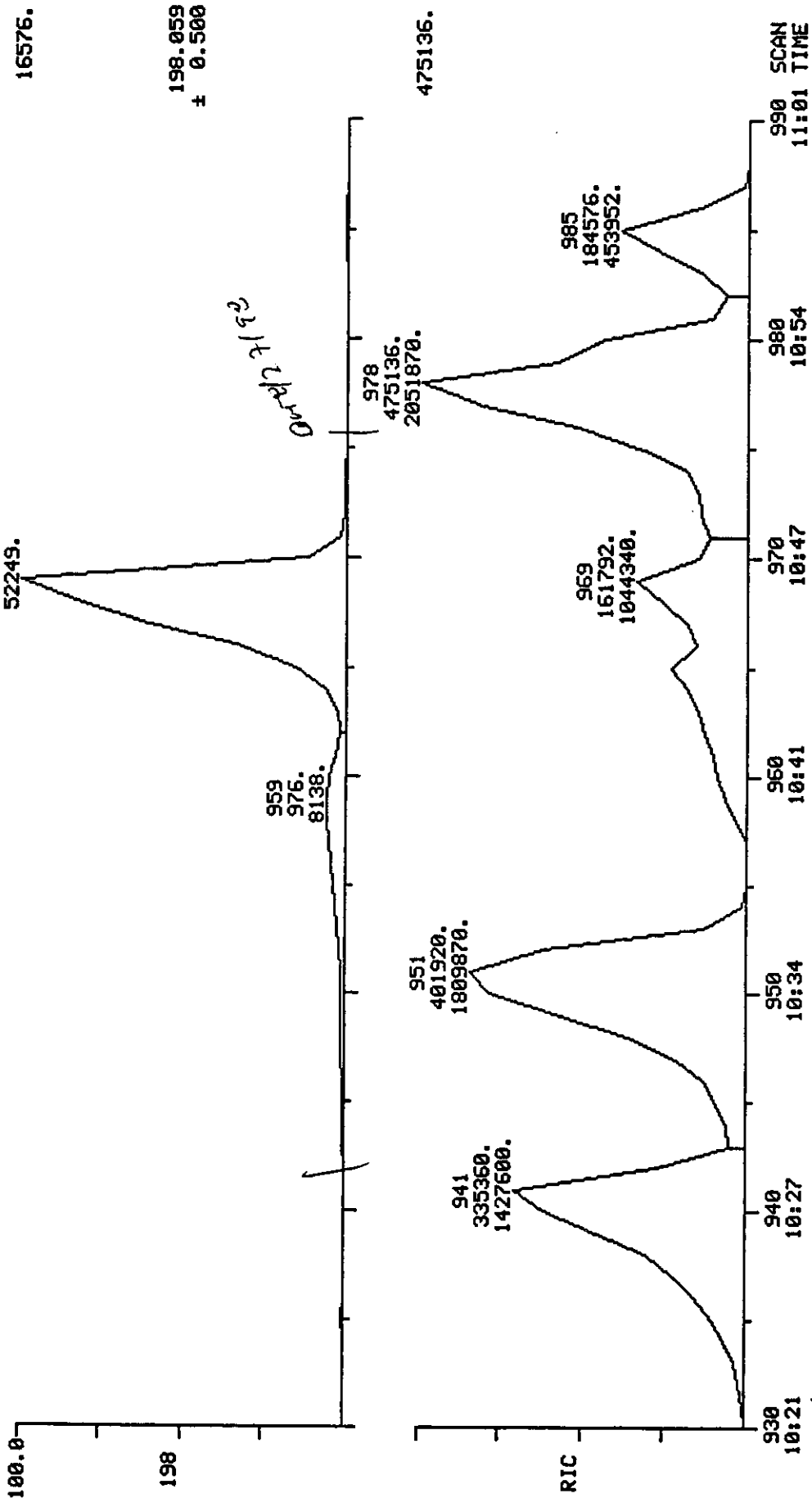
138

138
± 0



1535

RIC+MASS CHROMATOGRAM
 08/27/98 11:50:00 DATA: ST16980827E #1
 CALI: ST16980827E #3
 SAMPLE: SSTD160 160UG/ML CALI I 070698I
 COND5.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 2, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3



1506

QUANTERRA GC/MS
SEMIVOLATILE APPENDIX IX CALIBRATION CHE

INITIAL CALIBRATION: 10 UG/ML APPENDIX ST16980831B 08/31/98 13:35:00
INITIAL CALIBRATION: 20 UG/ML APPENDIX ST16980831C 08/31/98 14:02:00
INITIAL CALIBRATION: 50 UG/ML APPENDIX ST16980831D 08/31/98 14:32:00
INITIAL CALIBRATION: 80 UG/ML APPENDIX ST16980831A 08/31/98 13:07:00
INITIAL CALIBRATION: 120 UG/ML APPENDIX ST16980831E 08/31/98 15:02:00
INITIAL CALIBRATION: 160 UG/ML APPENDIX ST16980831F 08/31/98 15:31:00

Library Entry	Compound	Initial Calibration			Continuing Calibration		
		Response Factor	% RSD		Response Factor	% Diff	
		Avg	Min	Max	Min	Max	
S1	20 PYRIDINE	1.590		6.5			
S1	30 2-PICOLINE	1.565		1.3			
S1	40 N-NITROSOMETHYLETHYL	0.811		9.2			
S1	60 METHYLMETHANESULFONA	0.636		6.2			
S1	70 N-NITROSODIETHYLAMIN	0.521		7.6			
S1	85 ETHYLMETHANE SULFONA	1.109		11.0			
S1	95 PENTACHLOROETHANE	0.602		1.4			
S1	170 C361 ACETOPHENONE	1.934		2.8			
S1	175 N-NITROSOPYRROLIDINE	0.553		6.5			
S1	180 N-NITROSOMORPHOLINE	0.821		1.4			
S1	182 3-METHYL PHENOL	2.252		9.9			
S1	195 O-TOLUIDINE	2.160		9.2			
S2	15 N-NITROSOPIPERIDINE	0.321		4.9			
S2	50 AA-DIMETHYLPHENETHYL	1.285		15.6			
S2	85 2,6-DICHLOROPHENOL	0.257		12.8			
S2	90 HEXACHLOROPROPENE	0.198		0.9			
S2	115 P-PHENYLENE DIAMINE	0.131		42.2			
S2	120 N-NITROSODI-N-BUTYLA	0.213		7.2			
S2	140 SAFROLE	0.248		0.9			
S3	10 1,2,4,5-TETRACHLOROB	0.433		4.4			
S3	15 ISOSAFROLE (#1)	0.044		3.4			
S3	35 ISOSAFROLE (#2)	0.195		2.2			
S3	42 1-CHLORONAPHTH	1.318		16.5			
S3	50 1,4-NAPHTHOQUINONE	0.414		5.6			
S3	60 1,3-DINITROBENZENE	0.198		8.6			
S3	100 PENTACHLOROBENZENE	0.489		3.8			
S3	110 1-NAPHTHYLAMINE	0.837		6.6			
S3	115 2-NAPHTHYLAMINE	0.966		5.8			
S3	120 2,3,4,6-TETRACHLOROP	0.297		4.5			
S3	145 5-NITRO-O-TOLUIDINE	0.355		7.2			
S4	25 SYM-TRINITROBENZENE	0.162		5.3			
S4	35 PHENACETIN	0.317		3.2			
S4	37 DIALLATE	0.090		4.4			
S4	45 4-AMINOBIIPHENYL	0.609		7.6			
S4	55 PRONAMIDE	0.299		5.2			
S4	60 PENTACHLORONITROBENZ	0.080		1.8			
S4	75 2SECBUTYL-4,6-DINITR	0.153		9.3			
S4	100 4-NITROQUINOLINE-1-O	0.072		11.5			
S4	105 METHAPYRILENE	0.305		26.8			
S4	106 ISODRIN	0.127		1.5			
S4	120 CHLOROBENZILATE	0.323		11.1			
S5	20 ARAMITE (#1)	0.061		4.4			
S5	25 ARAMITE (#2)	0.087		4.4			
S5	30 P-DIMETHYLAMINOAZOBE	0.419		1.1			
S5	35 3,3'-DIMETHYLBENZIDIO	0.418		17.0			
S5	37 KEPONE	0.082		34.6			
S5	45 2-ACETYLAMINOFLUOREN	0.432		4.0			
S5	85 3-METHYLCHOLANTHRENE	0.548		6.1			

1537

S6 20 7,12-DIMETHYLBENZANT 0.610 0.5

0 CCC and SPCC compounds are out

1533

QUANTERRA GC/MS
SEMIVOLATILE APPENDIX IX CALIBRATION CHE

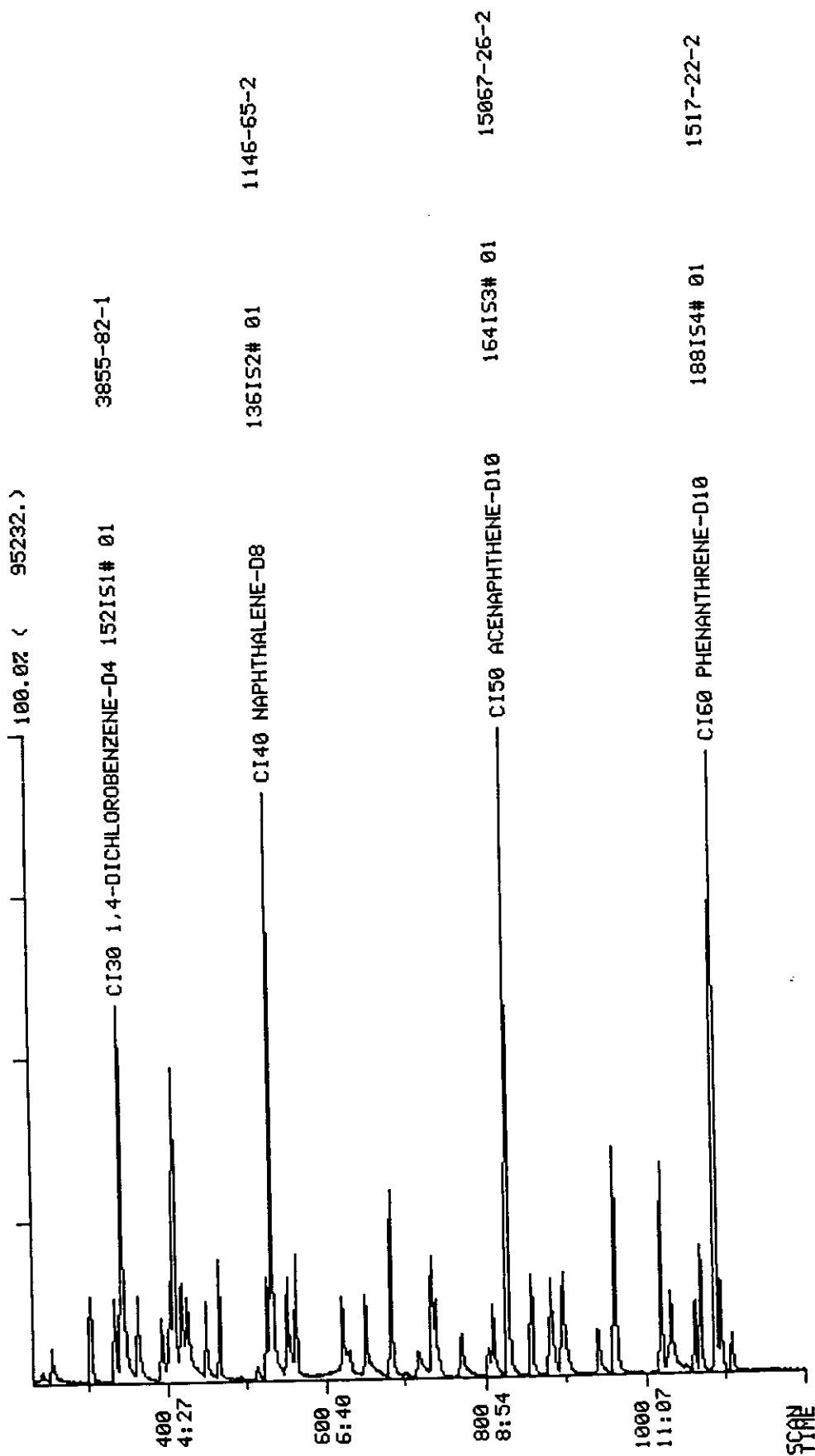
INITIAL CALIBRATION: 10 UG/ML APPENDIX ST16980831B 08/31/98 13:35:00
INITIAL CALIBRATION: 20 UG/ML APPENDIX ST16980831C 08/31/98 14:02:00
INITIAL CALIBRATION: 50 UG/ML APPENDIX ST16980831D 08/31/98 14:32:00
INITIAL CALIBRATION: 80 UG/ML APPENDIX ST16980831A 08/31/98 13:07:00
INITIAL CALIBRATION: 120 UG/ML APPENDIX ST16980831E 08/31/98 15:02:00
INITIAL CALIBRATION: 160 UG/ML APPENDIX ST16980831F 08/31/98 15:31:00

	ST16980831B		ST16980831C		ST16980831D		ST16980831A		ST16980831E		ST16980831F	
Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S1 20	10	1.770	20	1.583	50	1.578	80	1.587	120	1.449	160	1.576
S1 30			20	1.563	50	1.594	80	1.577	120	1.547	160	1.545
S1 40	10	0.700	20	0.737	50	0.823	80	0.876	120	0.860	160	0.870
S1 60	10	0.619	20	0.688	50	0.685	80	0.602	120	0.619	160	0.604
S1 70	10	0.450	20	0.506	50	0.521	80	0.549	120	0.547	160	0.555
S1 85	10	0.921	20	1.008	50	1.120	80	1.168	120	1.190	160	1.244
S1 95			20	0.612	50	0.605	80	0.605	120	0.595	160	0.592
S1 170	10	1.869	20	2.024	50	1.960	80	1.945	120	1.903	160	1.903
S1 175	10	0.481	20	0.555	50	0.575	80	0.562	120	0.569	160	0.575
S1 180	10	0.828	20	0.838	50	0.821	80	0.805	120	0.817	160	0.816
S1 182	10	1.848	20	2.130	50	2.339	80	2.408	120	2.391	160	2.394
S1 195			20	2.463	50	2.228	80	2.129	120	2.032	160	1.949
S2 15	10	0.293	20	0.312	50	0.326	80	0.327	120	0.337	160	0.329
S2 50			20	1.575	50	1.353	80	1.036	120	1.276	160	1.184
S2 85	10	0.202	20	0.234	50	0.264	80	0.280	120	0.279	160	0.285
S2 90			20	0.196	50	0.201	80	0.197	120	0.198	160	0.198
S2 115			20	0.163	50	0.167	80	0.038	120	0.165	160	0.121
S2 120	10	0.186	20	0.205	50	0.213	80	0.225	120	0.224	160	0.224
S2 140			20	0.246	50	0.247	80	0.250	120	0.245	160	0.250
S3 10	10	0.469	20	0.431	50	0.434	80	0.430	120	0.416	160	0.419
S3 15			20	0.046	50	0.042	80	0.043	120	0.044	160	0.044
S3 35			20	0.201	50	0.195	80	0.196	120	0.190	160	0.192
S3 42	10	1.531	20	1.098	50	1.129	80	1.528	120	1.134	160	1.488
S3 50			20	0.403	50	0.429	80	0.447	120	0.404	160	0.389
S3 60	10	0.166	20	0.191	50	0.202	80	0.210	120	0.212	160	0.204

S3 100	10, 0.516	20, 0.504	50, 0.483	80, 0.493	120, 0.469	160, 0.471
S3 110	10, 0.869	20, 0.859	50, 0.889	80, 0.765	120, 0.872	160, 0.769
S3 115	10, 0.924	20, 0.974	50, 1.041	80, 0.996	120, 0.980	160, 0.881
S3 120		20, 0.277	50, 0.302	80, 0.310	120, 0.306	160, 0.290
S3 145		20, 0.345	50, 0.368	80, 0.381	120, 0.367	160, 0.316
S4 25		20, 0.149	50, 0.162	80, 0.172	120, 0.166	160, 0.159
S4 35		20, 0.305	50, 0.324	80, 0.316	120, 0.330	160, 0.311
S4 37		20, 0.088	50, 0.087	80, 0.089	120, 0.089	160, 0.097
S4 45		20, 0.643	50, 0.664	80, 0.602	120, 0.590	160, 0.546
S4 55		20, 0.312	50, 0.315	80, 0.301	120, 0.291	160, 0.277
S4 60		20, 0.081	50, 0.079	80, 0.079	120, 0.082	160, 0.081
S4 75		20, 0.130	50, 0.165	80, 0.163	120, 0.159	160, 0.150
S4 100		20, 0.058	50, 0.074	80, 0.076	120, 0.079	160, 0.075
S4 105		20, 0.424	50, 0.339	80, 0.205	120, 0.279	160, 0.277
S4 106	10, 0.127	20, 0.125	50, 0.129	80, 0.128	120, 0.127	160, 0.124
S4 120	10, 0.376	20, 0.351	50, 0.329	80, 0.308	120, 0.295	160, 0.281
S5 20		20, 0.057	50, 0.063	80, 0.061	120, 0.064	160, 0.061
S5 25		20, 0.081	50, 0.090	80, 0.090	120, 0.087	160, 0.085
S5 30		20, 0.417	50, 0.425	80, 0.420	120, 0.412	160, 0.420
S5 35		20, 0.522	50, 0.450	80, 0.406	120, 0.364	160, 0.346
S5 37		20, 0.123	50, 0.087	80, 0.089	120, 0.056	160, 0.054
S5 45		20, 0.404	50, 0.450	80, 0.438	120, 0.429	160, 0.440
S5 85		20, 0.586	50, 0.576	80, 0.549	120, 0.515	160, 0.514
S6 20		20, 0.609	50, 0.615	80, 0.610	120, 0.608	160, 0.609

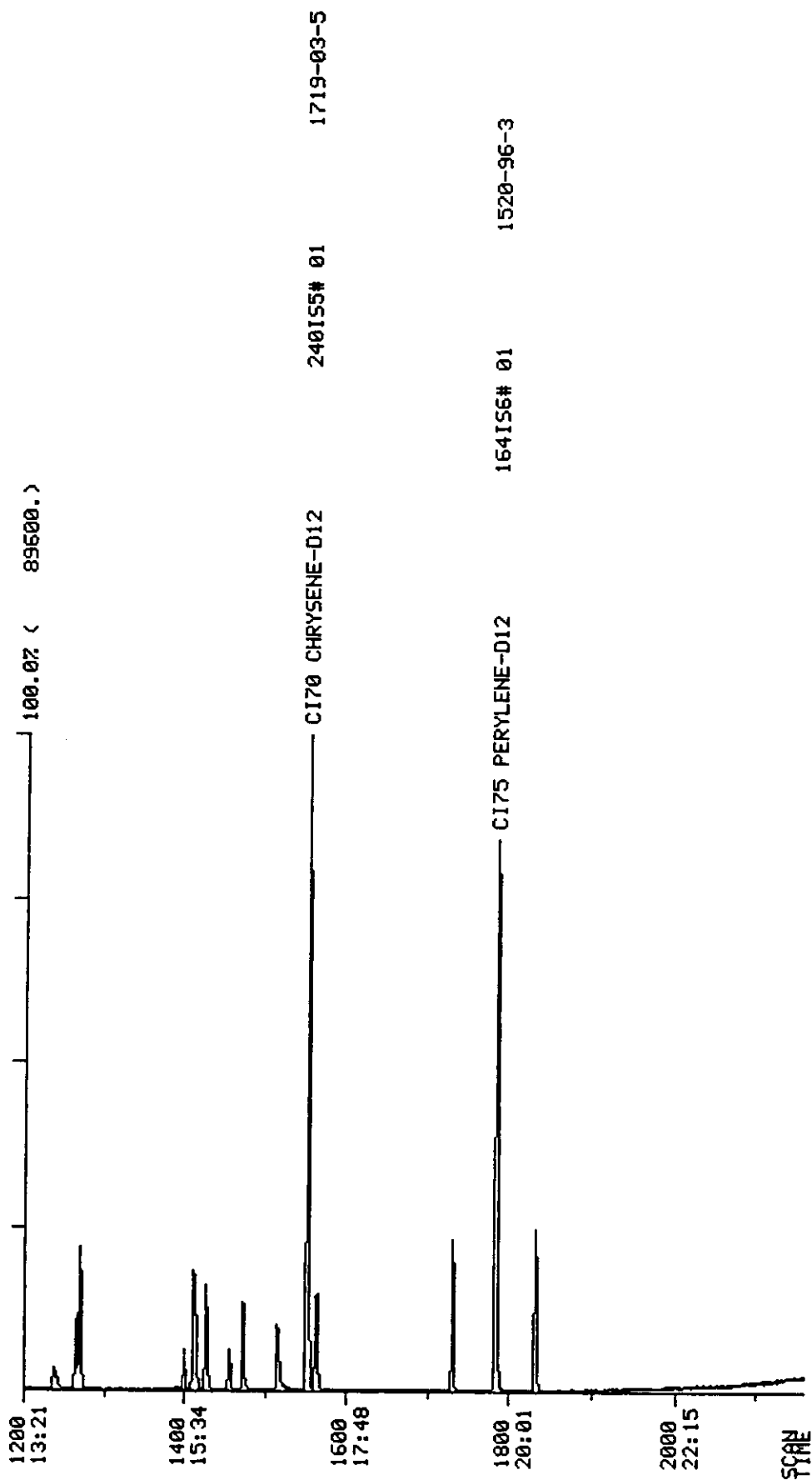
DATA FROM FILE: ST16980831B SCANS 230 TO 1200 ACQUIRED: 08/31/98 13:35:00
CALL: ST16980831B #3

SAMPLE: 10UG/ML AP9 062598C
CONDS.: INST. ID: F16



1541

DATA FROM FILE: ST16980831B SCANS 1200 TO 2158 ACQUIRED: 08/31/98 13:35:00
 CALI: ST16980831B #3
 SAMPLE: 10UG/ML AP9 062598C
 CONDS.: INST. ID: F16



Data: ST16980831B.T1

08/31/98 13:35:00

Sample: 10UG/ML AP9 062598C

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
1	CI30 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	CI40 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	CI50 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	CI60 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	CI70 CHRYSENE-D12	240IS5# 01	1719-03-5
6	CI75 PERYLENE-D12	164IS6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
9	METHYLMETHANESULFONATE	80 S1# 60	
10	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
11	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
12	C361 ACETOPHENONE	105 S1#170	
13	N-NITROSOPYRROLIDINE	100 S1#175	930-55-2
14	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
15	3-METHYL PHENOL	108 S1#182	
16	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
17	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
18	N-NITROSODI-N-BUTYLAMINE	84 S2#120	924-16-3
19	1,2,4,5-TETRACHLOROBENZENE	214 S3# 10	95-94-3
20	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
21	1,3-DINITROBENZENE	168 S3# 60	99-65-0
22	PENTACHLOROBENZENE	250 S3#100	708-93-5
23	1-NAPHTHYLAMINE	143 S3#110	134-32-7
24	2-NAPHTHYLAMINE	143 S3#115	91-59-8
25	ISODRIN		
26	CHLOROBENZILATE	139 S4#120	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	340	3:47	1	1.000	A BB	29461.	40.000 UG/ML	9.09
2	136	529	5:53	2	1.000	A BB	109632.	40.000 UG/ML	9.09
3	164	827	9:12	3	1.000	A BB	59743.	40.000 UG/ML	9.09
4	188	1085	12:04	4	1.000	A BB	100292.	40.000 UG/ML	9.09
5	240	1551	17:15	5	1.000	A BB	83642.	40.000 UG/ML	9.09
6	264	1782	19:49	6	1.000	A BB	69904.	40.000 UG/ML	9.09
7	79	103	1:09	1	0.303	A BB	13033.	10.000 UG/ML	2.27
8	42	157	1:45	1	0.462	A BB	5159.	10.000 UG/ML	2.27
9	80	181	2:01	1	0.532	A BB	4559.	10.000 UG/ML	2.27
10	102	216	2:24	1	0.635	A BB	3318.	10.000 UG/ML	2.27
11	79	253	2:49	1	0.744	A BB	6780.	10.000 UG/ML	2.27
12	105	401	4:28	1	1.179	A BB	13763.	10.000 UG/ML	2.27
13	100	399	4:26	1	1.174	qedt	3544.	10.000 UG/ML	2.27
14	56	407	4:32	1	1.197	A BB	6098.	10.000 UG/ML	2.27
15	108	416	4:38	1	1.224	A BB	13612.	10.000 UG/ML	2.27
16	42	447	4:58	2	0.845	A BB	8018.	10.000 UG/ML	2.27
17	162	551	6:08	2	1.042	A BB	5546.	10.000 UG/ML	2.27

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
18	84	618	6:52	2	1.168	A BB	5111.	10.000 UG/ML	2.27
19	214	680	7:34	3	0.822	A BB	6998.	10.000 UG/ML	2.27
20	162	732	8:09	3	0.885	A BB	22862.	10.000 UG/ML	2.27
21	168	802	8:55	3	0.970	A BB	2486.	10.000 UG/ML	2.27
22	250	857	9:32	3	1.036	A BB	7702.	10.000 UG/ML	2.27
23	143	881	9:48	3	1.065	A BB	12978.	10.000 UG/ML	2.27
24	143	896	9:58	3	1.083	A BB	13797.	10.000 UG/ML	2.27
25	193	1269	14:07	4	1.170	A BB	3194.	10.000 UG/ML	2.27
26	139	1426	15:52	4	1.314	A BB	9428.	10.000 UG/ML	2.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.303	1.00	10.00	10.00	1.770	1.770	1.00
8	1:45	1.00	0.462	1.00	10.00	10.00	0.700	0.700	1.00
9	2:01	0.99	0.535	0.99	10.00	10.00	0.619	0.619	1.00
10	2:25	0.99	0.641	0.99	10.00	10.00	0.450	0.450	1.00
11	2:50	0.99	0.750	0.99	10.00	10.00	0.921	0.921	1.00
12	4:30	0.99	1.188	0.99	10.00	10.00	1.869	1.869	1.00
13	4:30	0.99	1.191	0.99	10.00	10.00	0.481	0.481	1.00
14	4:34	0.99	1.209	0.99	10.00	10.00	0.828	0.828	1.00
15	4:40	0.99	1.232	0.99	10.00	10.00	1.848	1.848	1.00
16	5:01	0.99	0.851	0.99	10.00	10.00	0.293	0.293	1.00
17	6:08	1.00	1.042	1.00	10.00	10.00	0.202	0.202	1.00
18	6:54	1.00	1.170	1.00	10.00	10.00	0.186	0.186	1.00
19	7:34	1.00	0.822	1.00	10.00	10.00	0.469	0.469	1.00
20	8:09	1.00	0.885	1.00	10.00	10.00	1.531	1.531	1.00
21	8:56	1.00	0.970	1.00	10.00	10.00	0.166	0.166	1.00
22	9:33	1.00	1.036	1.00	10.00	10.00	0.516	0.516	1.00
23	9:49	1.00	1.066	1.00	10.00	10.00	0.869	0.869	1.00
24	10:00	1.00	1.086	1.00	10.00	10.00	0.924	0.924	1.00
25	14:08	1.00	1.168	1.00	10.00	10.00	0.127	0.127	1.00
26	15:52	1.00	1.313	1.00	10.00	10.00	0.376	0.376	1.00

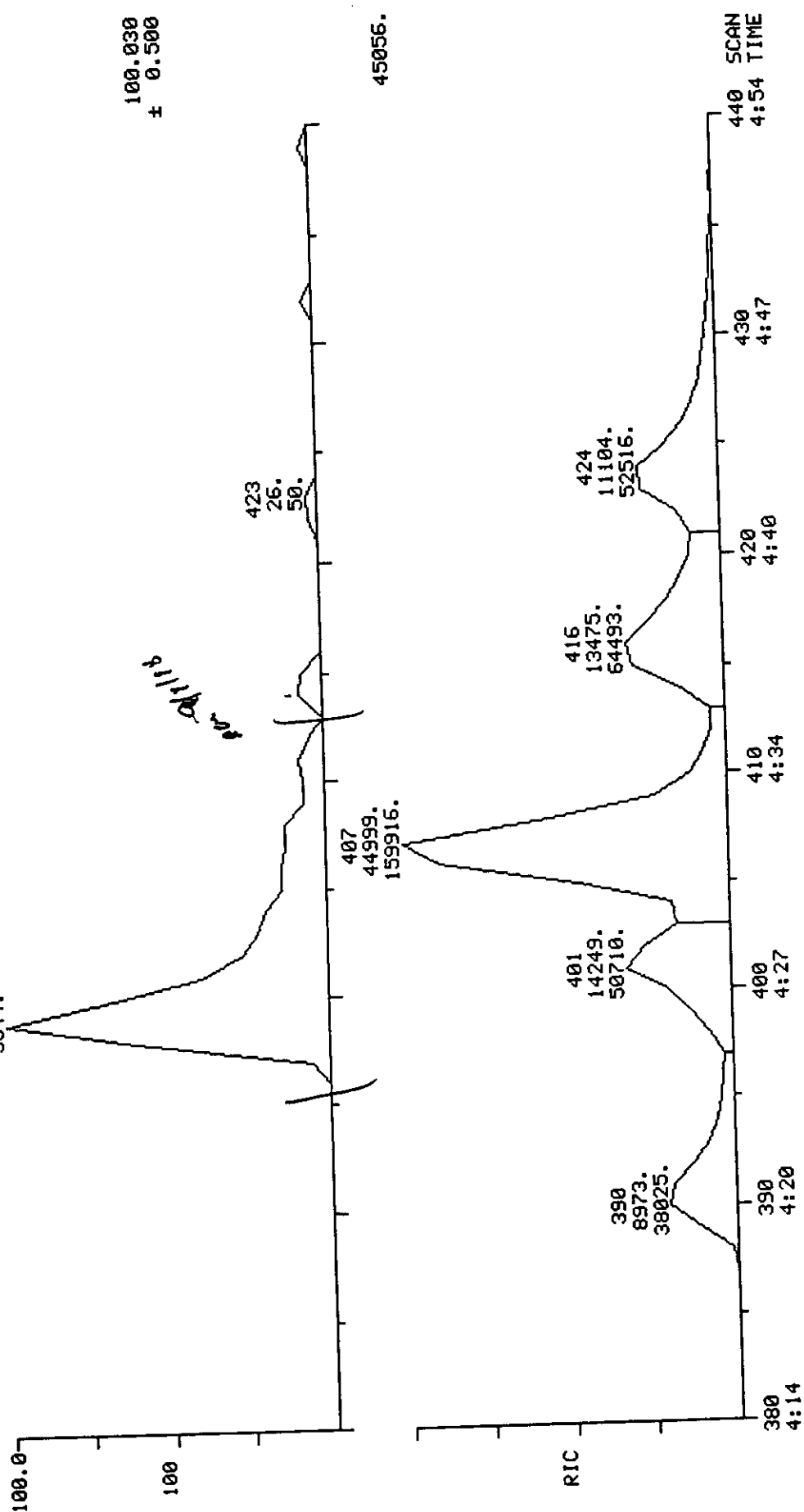
MANUAL EDIT CODES
 1. PEAK NOT FOUND
 2. POOR CHROMATOGRAPHY
 3. WRONG ISOMER
 ALL MANUAL EDITS MUST BE
 INITIALED, DATED, AND COPIED

DATA: ST16980831B #1 SCANS 380 TO 440

RIC+MASS CHROMATOGRAM
08/31/98 13:35:00
SAMPLE: 10UG/ML AP9 062598C
COND5.: INST. ID: F15
RANGE: G 1.2158 LABEL: N 2.2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

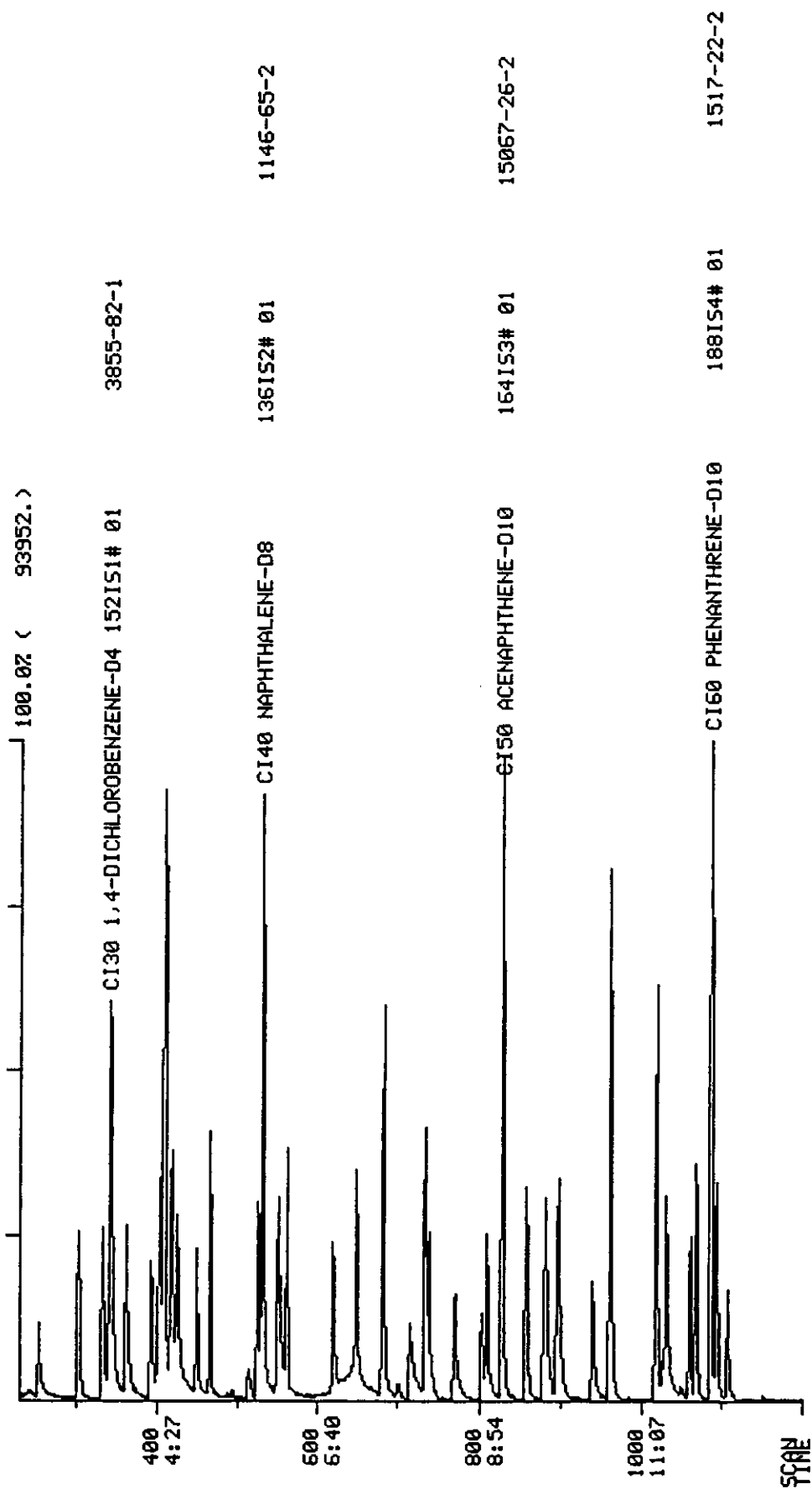
CALI: ST16980831B #3

856.



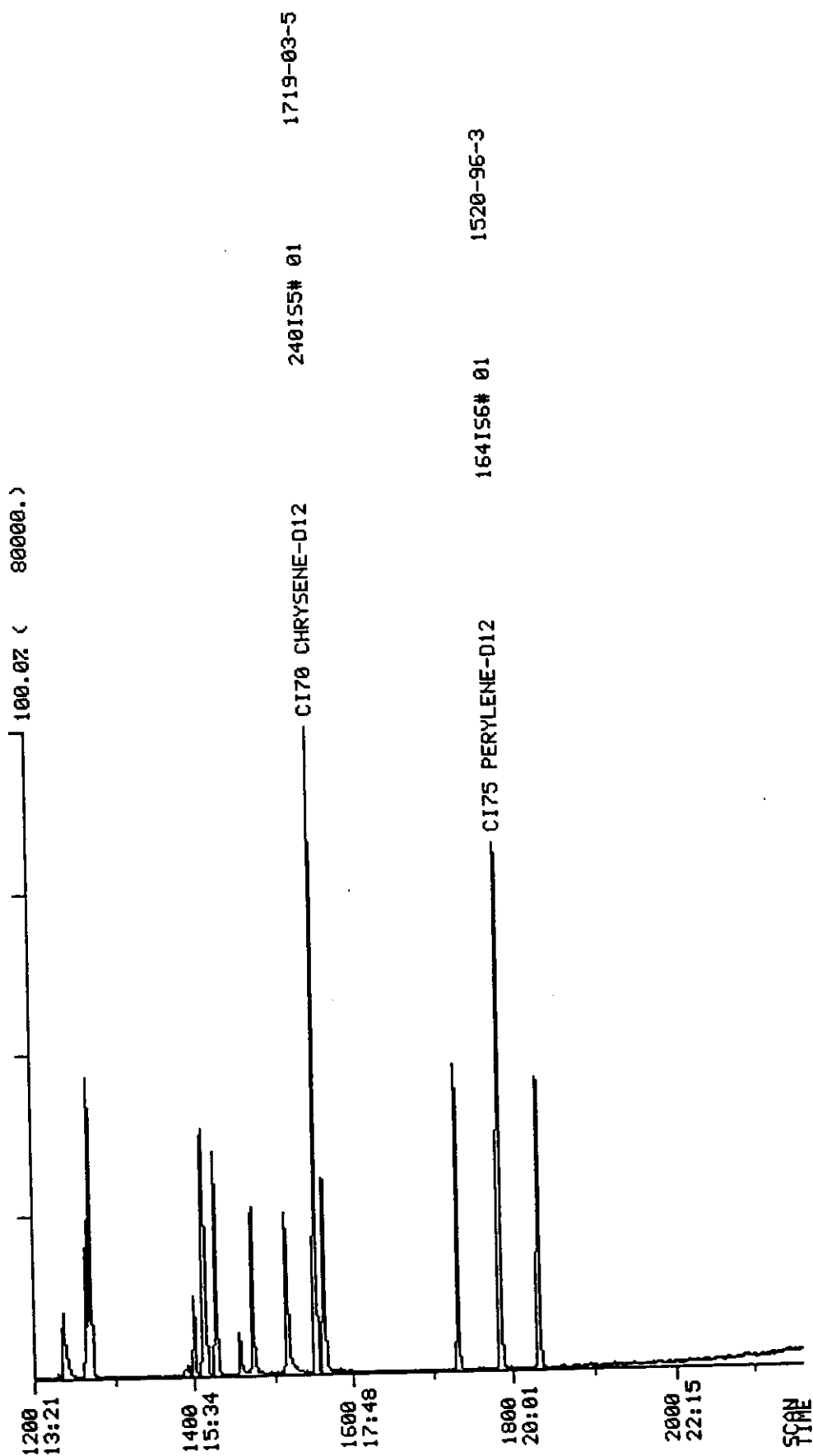
1543

DATA FROM FILE: ST16980831C SCANS 230 TO 1200 ACQUIRED: 08/31/98 14:02:00
 CALL: ST16980831C #3
 SAMPLE: 20UG/ML AP9 062598D
 CONDS.: INST. ID: F16



DATA FROM FILE: ST16980831C SCANS 1200 TO 2158 ACQUIRED: 08/31/98 14:02:00
CALI: ST16980831C #3

SAMPLE: 20UG/ML AP9 0625980
CONDS.: INST. ID: F16



Data: ST16980831C.TI

08/31/98 14:02:00

Sample: 20UG/ML AP9 0625980

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	1521S1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	1361S2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	1641S3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	1881S4# 01	1517-22-2
5	C170 CHRYSENE-D12	2401S5# 01	1719-03-5
6	C175 PERYLENE-D12	1641S6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	2-PICOLINE	93 S1# 30	109-06-8
9	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
10	METHYLMETHANESULFONATE	80 S1# 60	
11	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
12	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
13	PENTACHLOROETHANE	117 S1# 95	76-01-7
14	C361 ACETOPHENONE	105 S1#170	
15	N-NITROSPYRROLIDINE	100 S1#175	930-55-2
16	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
17	3-METHYL PHENOL	108 S1#182	
18	O-TOLUIDINE	106 S1#195	95-53-4
19	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
20	AA-DIMETHYLPHENETHYLAMINE	58 S2# 50	122-09-8
21	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
22	HEXACHLOROPROPENE	213 S2# 90	
23	P-PHENYLENE DIAMINE	108 S2#115	106-50-3
24	N-NITROSODI-N-BUTYLAMINE	84 S2#120	924-16-3
25	SAFROLE	152 S2#140	94-59-7
26	1,2,4,5-TETRACHLOROBENZENE	214 S3# 10	95-94-3
27	ISOSAFROLE (#1)	162 S3# 15	120-58-1
28	ISOSAFROLE (#2)	104 S3# 35	120-58-1
29	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
30	1,4-NAPHTHOQUINONE	158 S3# 50	130-15-4
31	1,3-DINITROBENZENE	168 S3# 60	99-65-0
32	PENTACHLOROBENZENE	250 S3#100	708-93-5
33	1-NAPHTHYLAMINE	143 S3#110	134-32-7
34	2-NAPHTHYLAMINE	143 S3#115	91-59-8
35	2,3,4,6-TETRACHLOROPHENOL	232 S3#120	58-90-2
36	5-NITRO-O-TOLUIDINE	152 S3#145	99-52-5
37	SYM-TRINITROBENZENE	75 S4# 25	
38	PHENACETIN	108 S4#35	62-44-2
39	DIALATE	234 S4# 37	
40	4-AMINOBIPHENYL	169 S4# 45	92-67-1
41	PRONAMIDE	173 S4# 55	23950-58-5
42	PENTACHLORONITROBENZENE	237 S4# 60	82-68-8
43	2SECBUTYL-4,6-DINITROPHENOL	211 S4# 75	88-85-7
44	4-NITROQUINOLINE-1-OXIDE	190 S4#100	
45	METHAPYRILENE	58 S4#105	91-80-5
46	ISODRIN		
47	CHLOROBENZILATE	139 S4#120	

No	Name	185 S5# 20	140-57-8
48	ARAMITE (#1)	185 S5# 25	140-57-8
49	ARAMITE (#2)	120 S5# 30	60-11-7
50	P-DIMETHYLAMINOAZOBENZENE		

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	152	340	3:47	1	1.000	A BB	28379.	40.000 UG/ML	3.28
2	136	529	5:53	2	1.000	A BB	104398.	40.000 UG/ML	3.28
3	164	827	9:12	3	1.000	A BB	58510.	40.000 UG/ML	3.28
4	188	1086	12:05	4	1.000	A BB	99710.	40.000 UG/ML	3.28
5	240	1551	17:15	5	1.000	A BV	75805.	40.000 UG/ML	3.28
6	264	1782	19:49	6	1.000	A BB	63674.	40.000 UG/ML	3.28
7	79	103	1:09	1	0.303	A BB	22463.	20.000 UG/ML	1.64
8	93	145	1:37	1	0.426	A BB	22172.	20.000 UG/ML	1.64
9	42	156	1:44	1	0.459	A BB	10461.	20.000 UG/ML	1.64
10	80	181	2:01	1	0.532	A BB	9765.	20.000 UG/ML	1.64
11	102	216	2:24	1	0.635	A BB	7176.	20.000 UG/ML	1.64
12	79	253	2:49	1	0.744	A BB	14300.	20.000 UG/ML	1.64
13	117	301	3:21	1	0.885	A BB	8682.	20.000 UG/ML	1.64
14	105	402	4:28	1	1.182	A BB	28725.	20.000 UG/ML	1.64
15	100	400	4:27	1	1.176	qedt (1)	7882.	20.000 UG/ML	1.64
16	56	407	4:32	1	1.197	A BV	11884.	20.000 UG/ML	1.64
17	108	416	4:38	1	1.224	A BB	30227.	20.000 UG/ML	1.64
18	106	406	4:31	1	1.194	A BB	34950.	20.000 UG/ML	1.64
19	42	447	4:58	2	0.845	A BB	16262.	20.000 UG/ML	1.64
20	58	646	7:11	2	1.221	qedt (1)	82208.	20.000 UG/ML	1.64
21	162	551	6:08	2	1.042	A BB	12238.	20.000 UG/ML	1.64
22	213	548	6:06	2	1.036	A BB	10240.	20.000 UG/ML	1.64
23	108	656	7:18	2	1.240	qedt (2)	8496.	20.000 UG/ML	1.64
24	84	618	6:52	2	1.168	A BB	10715.	20.000 UG/ML	1.64
25	162	647	7:12	2	1.223	A BB	12848.	20.000 UG/ML	1.64
26	214	680	7:34	3	0.822	A BB	12617.	20.000 UG/ML	1.64
27	162	698	7:46	3	0.844	A BB	1336.	20.000 UG/ML	1.64
28	104	737	8:12	3	0.891	A BB	5880.	20.000 UG/ML	1.64
29	162	732	8:09	3	0.885	A BV	32113.	20.000 UG/ML	1.64
30	158	768	8:33	3	0.929	A BB	11800.	20.000 UG/ML	1.64
31	168	802	8:55	3	0.970	A BB	5576.	20.000 UG/ML	1.64
32	250	857	9:32	3	1.036	A BB	14750.	20.000 UG/ML	1.64
33	143	881	9:48	3	1.065	A BB	25121.	20.000 UG/ML	1.64
34	143	896	9:58	3	1.083	A VB	28484.	20.000 UG/ML	1.64
35	232	894	9:57	3	1.081	A BB	8117.	20.000 UG/ML	1.64
36	152	938	10:26	3	1.134	A BB	10100.	20.000 UG/ML	1.64
37	75	1025	11:24	4	0.944	A BB	7446.	20.000 UG/ML	1.64
38	108	1030	11:27	4	0.948	A BB	15198.	20.000 UG/ML	1.64
39	234	1017	11:19	4	0.936	A BB	4406.	20.000 UG/ML	1.64
40	169	1067	11:52	4	0.983	A BB	32077.	20.000 UG/ML	1.64
41	173	1093	12:09	4	1.006	A BB	15570.	20.000 UG/ML	1.64
42	237	1060	11:47	4	0.976	A BB	4036.	20.000 UG/ML	1.64
43	211	1107	12:19	4	1.019	A BB	6506.	20.000 UG/ML	1.64
44	190	1235	13:44	4	1.137	A BB	2912.	20.000 UG/ML	1.64
45	58	1264	14:04	4	1.164	A BB	21120.	20.000 UG/ML	1.64
46	193	1269	14:07	4	1.169	A BB	6234.	20.000 UG/ML	1.64
47	139	1426	15:52	4	1.313	A BB	17520.	20.000 UG/ML	1.64
48	185	1398	15:33	5	0.901	A BB	2154.	20.000 UG/ML	1.64
49	185	1413	15:43	5	0.911	A BB	3074.	20.000 UG/ML	1.64
50	120	1410	15:41	5	0.909	A BB	15810.	20.000 UG/ML	1.64

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.303	1.00	20.00	20.00	1.583	1.583	1.00
8	1:37	1.00	0.426	1.00	20.00	20.00	1.563	1.563	1.00
9	1:45	0.99	0.462	0.99	20.00	20.00	0.737	0.737	1.00
10	2:01	0.99	0.535	0.99	20.00	20.00	0.688	0.688	1.00
11	2:25	0.99	0.641	0.99	20.00	20.00	0.506	0.506	1.00
12	2:50	0.99	0.750	0.99	20.00	20.00	1.008	1.008	1.00
13	3:22	1.00	0.888	1.00	20.00	20.00	0.612	0.612	1.00
14	4:30	1.00	1.188	1.00	20.00	20.00	2.024	2.024	1.00
15	4:30	0.99	1.191	0.99	20.00	20.00	0.555	0.555	1.00
16	4:34	0.99	1.209	0.99	20.00	20.00	0.838	0.838	1.00
17	4:40	0.99	1.232	0.99	20.00	20.00	2.130	2.130	1.00
18	4:32	1.00	1.200	1.00	20.00	20.00	2.463	2.463	1.00
19	5:01	0.99	0.851	0.99	20.00	20.00	0.312	0.312	1.00
20	7:54	0.91	1.340	0.91	20.00	20.00	1.575	1.575	1.00
21	6:08	1.00	1.042	1.00	20.00	20.00	0.234	0.234	1.00
22	6:06	1.00	1.036	1.00	20.00	20.00	0.196	0.196	1.00
23	7:25	0.98	1.258	0.99	20.00	20.00	0.163	0.163	1.00
24	6:54	1.00	1.170	1.00	20.00	20.00	0.205	0.205	1.00
25	7:12	1.00	1.223	1.00	20.00	20.00	0.246	0.246	1.00
26	7:34	1.00	0.822	1.00	20.00	20.00	0.431	0.431	1.00
27	7:46	1.00	0.843	1.00	20.00	20.00	0.046	0.046	1.00
28	8:12	1.00	0.890	1.00	20.00	20.00	0.201	0.201	1.00
29	8:09	1.00	0.885	1.00	20.00	20.00	1.098	1.098	1.00
30	8:34	1.00	0.930	1.00	20.00	20.00	0.403	0.403	1.00
31	8:56	1.00	0.970	1.00	20.00	20.00	0.191	0.191	1.00
32	9:33	1.00	1.036	1.00	20.00	20.00	0.504	0.504	1.00
33	9:49	1.00	1.066	1.00	20.00	20.00	0.859	0.859	1.00
34	10:00	1.00	1.086	1.00	20.00	20.00	0.974	0.974	1.00
35	9:57	1.00	1.081	1.00	20.00	20.00	0.277	0.277	1.00
36	10:27	1.00	1.135	1.00	20.00	20.00	0.345	0.345	1.00
37	11:24	1.00	0.943	1.00	20.00	20.00	0.149	0.149	1.00
38	11:30	1.00	0.951	1.00	20.00	20.00	0.305	0.305	1.00
39	11:19	1.00	0.937	1.00	20.00	20.00	0.088	0.088	1.00
40	11:53	1.00	0.983	1.00	20.00	20.00	0.643	0.643	1.00
41	12:11	1.00	1.008	1.00	20.00	20.00	0.312	0.312	1.00
42	11:48	1.00	0.976	1.00	20.00	20.00	0.081	0.081	1.00
43	12:19	1.00	1.019	1.00	20.00	20.00	0.130	0.130	1.00
44	13:45	1.00	1.137	1.00	20.00	20.00	0.058	0.058	1.00
45	14:05	1.00	1.165	1.00	20.00	20.00	0.424	0.424	1.00
46	14:08	1.00	1.168	1.00	20.00	20.00	0.125	0.125	1.00
47	15:52	1.00	1.313	1.00	20.00	20.00	0.351	0.351	1.00
48	15:34	1.00	0.902	1.00	20.00	20.00	0.057	0.057	1.00
49	15:44	1.00	0.912	1.00	20.00	20.00	0.081	0.081	1.00
50	15:42	1.00	0.910	1.00	20.00	20.00	0.417	0.417	1.00

Quantitation Report File: ST16980831C

Data: ST16980831C.T1

08/31/98 14:02:00

Sample: 20UG/ML AP9 0625980

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No Name

51	3,3'-DIMETHYLBENZIDINE	212 S5# 35	
52	KEPONE	272 S5# 37	
53	2-ACETYLAMINOFLUORENE	181 S5# 45	53-96-3
54	3-METHYLCHOLANTHRENE	268 S5# 85	56-49-5
55	7,12-DIMETHYLBENZANTHRACENE	256 S6# 20	75-97-6
56	HEXACHLOROPHENE	196 S6# 30	70-30-4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	212	1472	16:22	5	0.949	A BB	19802.	20.000 UG/ML	1.64
52	272	1455	16:11	5	0.938	qedt	4676.	20.000 UG/ML	1.64
53	181	1514	16:50	5	0.976	A BB	15324.	20.000 UG/ML	1.64
54	268	1830	20:21	5	1.180	A BB	22226.	20.000 UG/ML	1.64
55	256	1729	19:14	6	0.970	A BB	19376.	20.000 UG/ML	1.64
56	NOT FOUND								

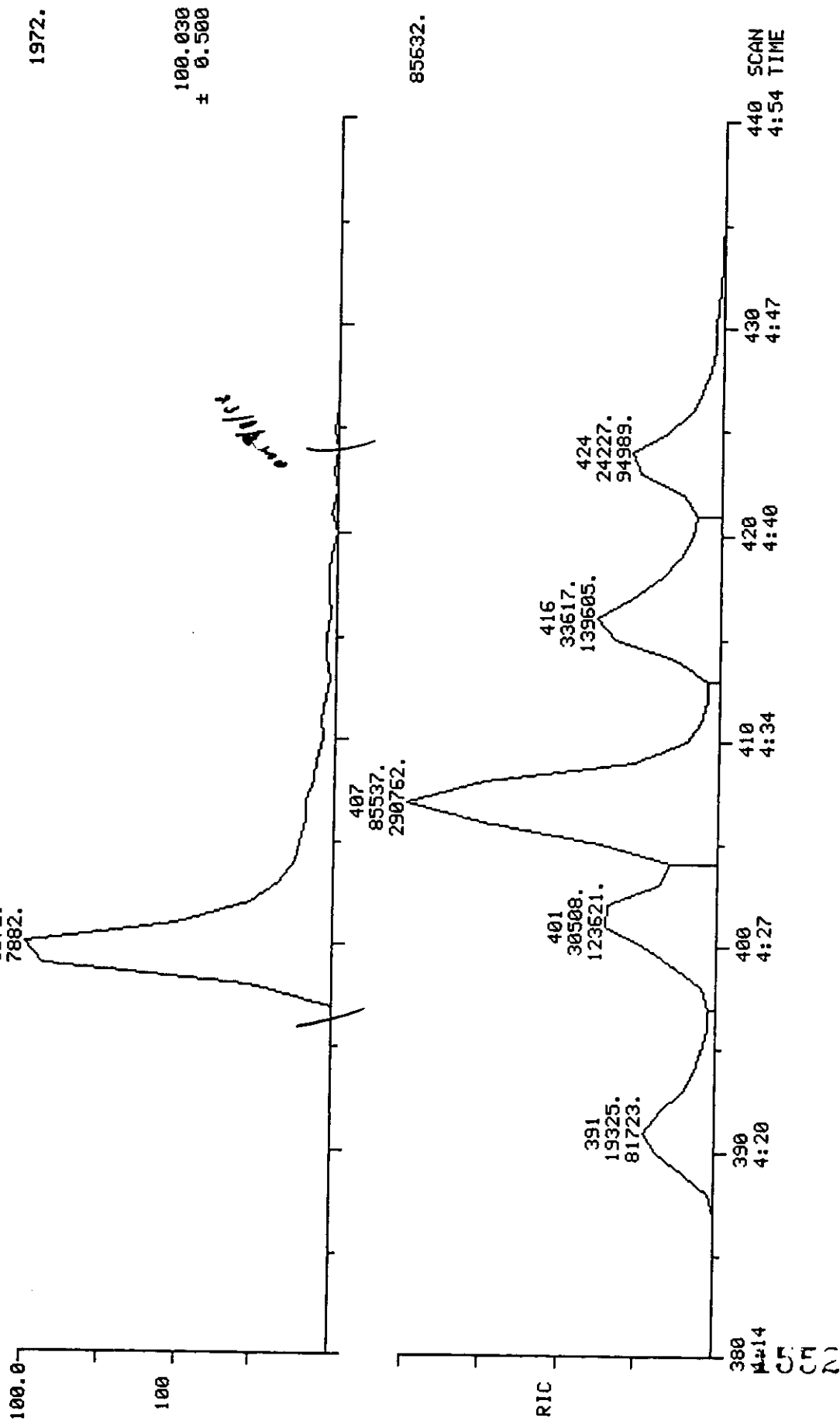
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:22	1.00	0.949	1.00	20.00	20.00	0.522	0.522	1.00
52	16:13	1.00	0.940	1.00	20.00	20.00	0.123	0.123	1.00
53	16:52	1.00	0.977	1.00	20.00	20.00	0.404	0.404	1.00
54	20:23	1.00	1.181	1.00	20.00	20.00	0.586	0.586	1.00
55	19:15	1.00	0.971	1.00	20.00	20.00	0.609	0.609	1.00
56	21:11		0.992						

MANUAL EDIT CODES

1. PEAK NOT FOUND
2. POOR CHROMATOGRAPHY
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
INITIALED, DATED, AND CODED

RIC+MASS CHROMATOGRAM
 08/31/98 14:02:00
 DATA: ST16980831C #1
 CALI: ST16980831C #3
 SAMPLE: 20UG/ML AP9 0625980
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 2, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3



SCANS 480 TO 800

DATA: ST16980831C #1
CALI: ST16980831C #3

RIC+MASS CHROMATOGRAM

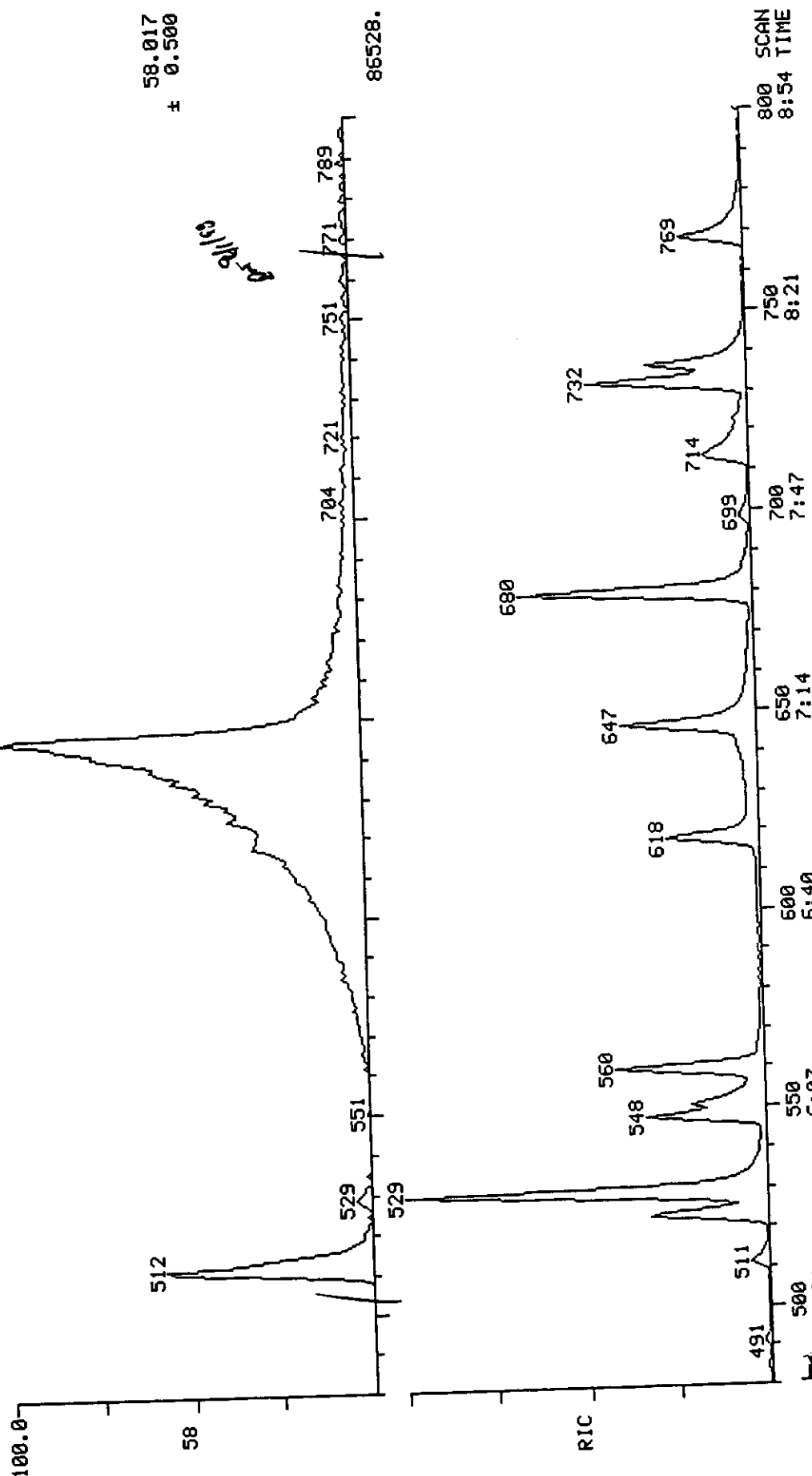
08/31/98 14:02:00

SAMPLE: 20UG/ML AP9 062598D

CONDOS.: INST. ID: F16

RANGE: G 1,2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

2796.



RIC+MASS CHROMATOGRAM

08/31/98 14:02:00

SAMPLE: 20UG/ML AP9 0625980

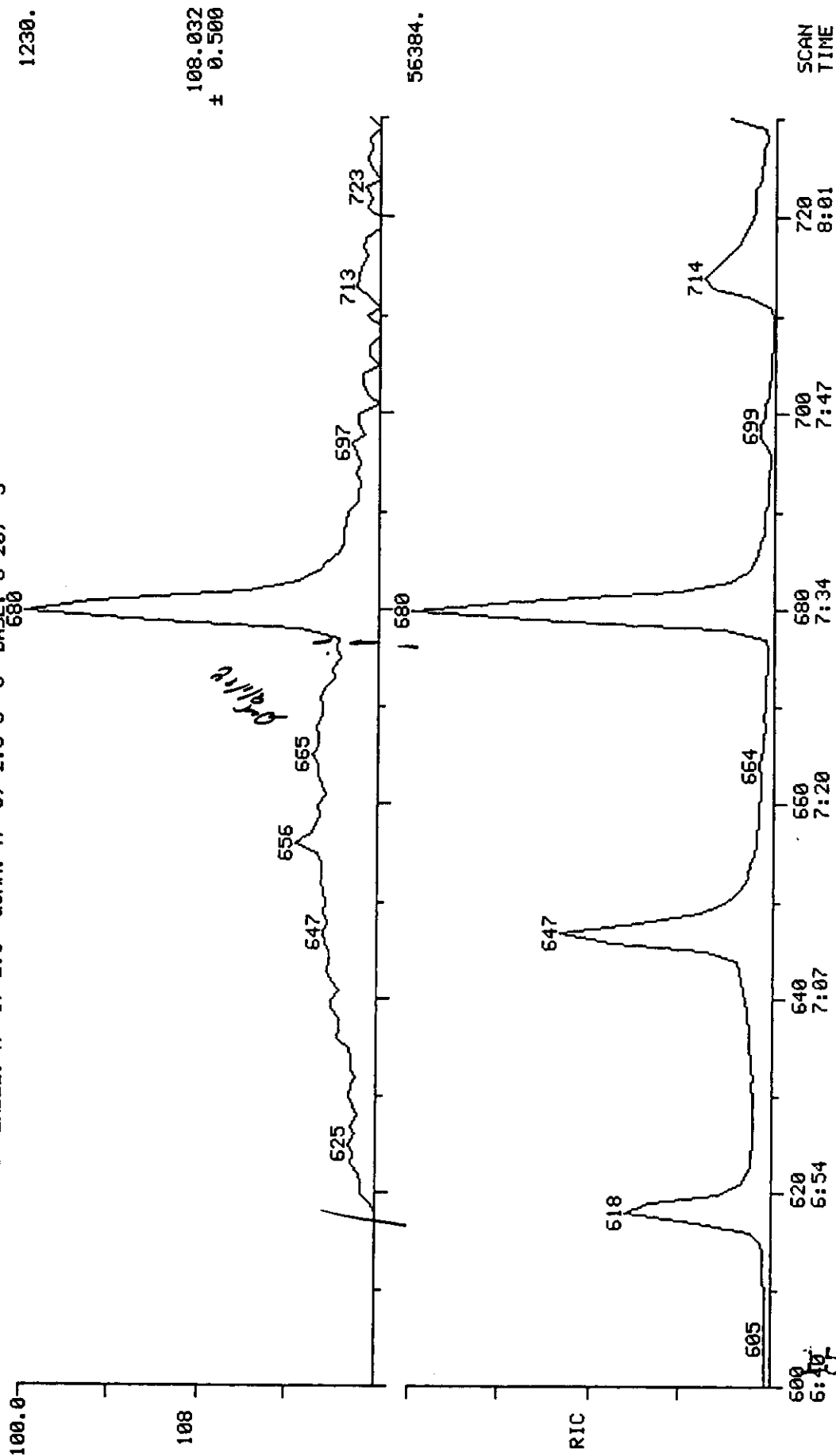
COND.: INST. ID: F16

RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

DATA: ST16980831C #1

CALI: ST16980831C #3

SCANS 600 TO 730



SCANS 1430 TO 1550

DATA: ST16980831C #1
CALI: ST16980831C #3

RIC+MASS CHROMATOGRAM

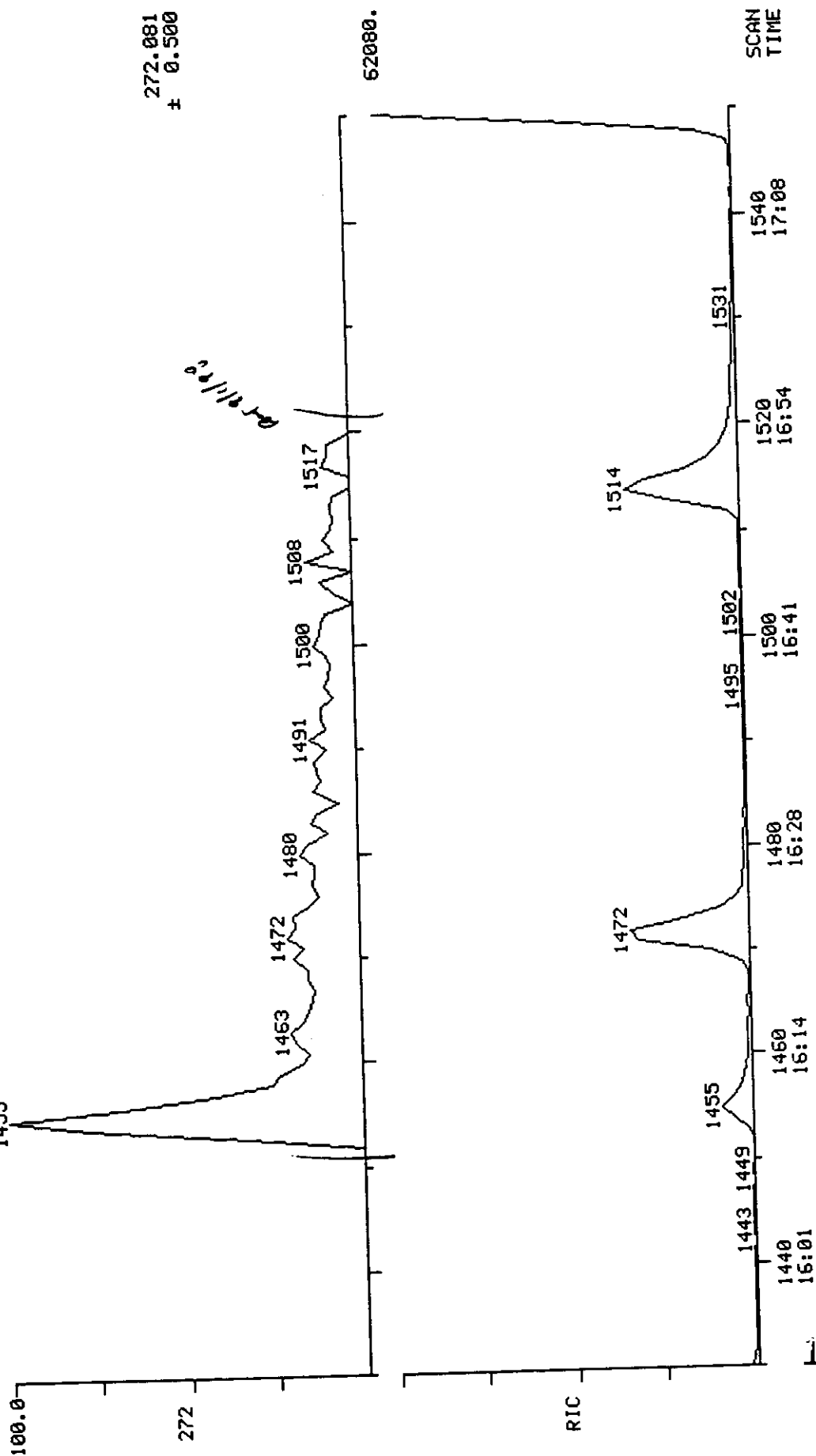
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SAMPLE: 20UG/ML AP9 062598D

CONDS.: INST. ID: F16

RANGE: G 1.2158 LABEL: N 0.2.0 QUAN: A 6.2.0 J 0 BASE: U 20. 3

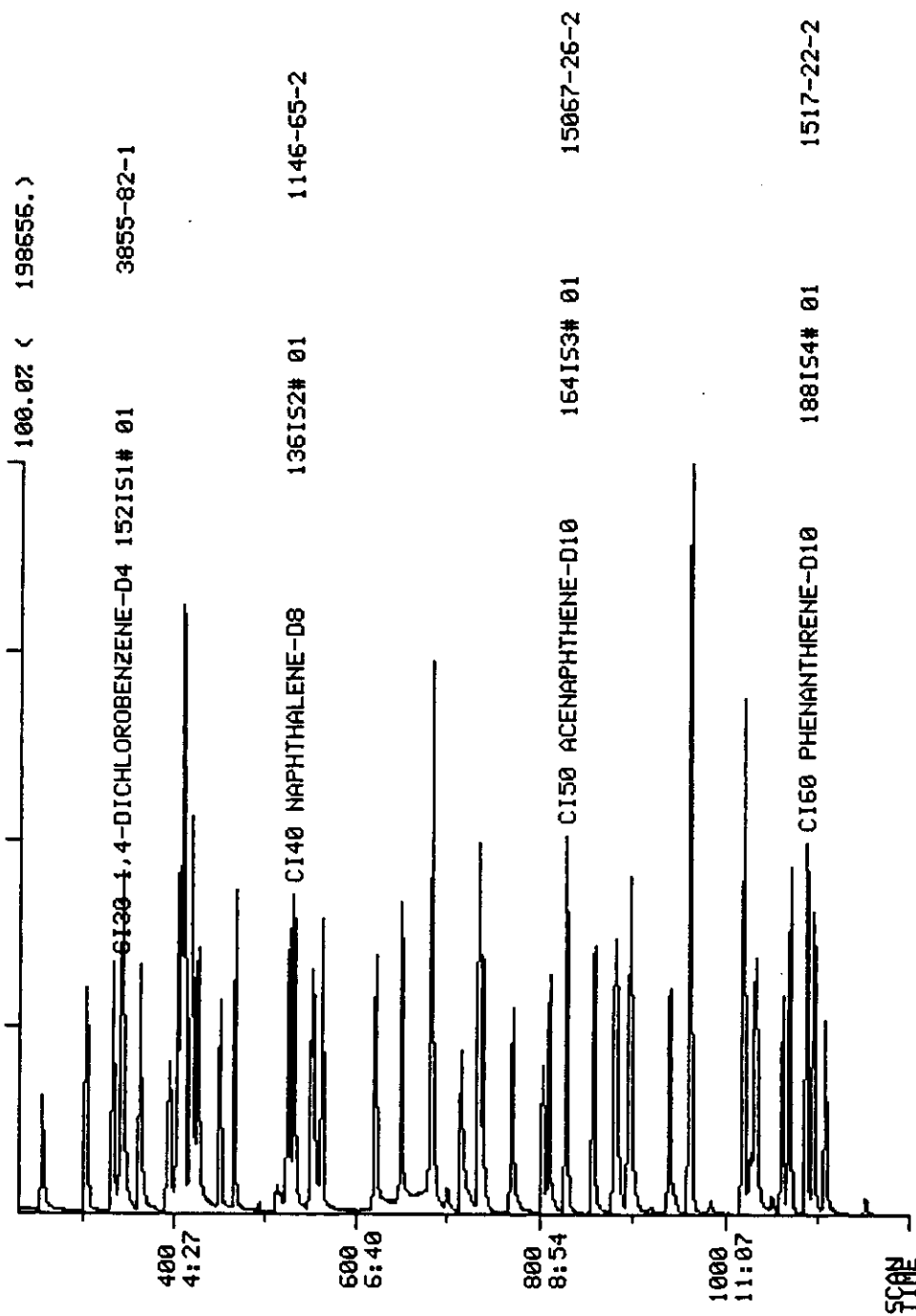
450.



1550

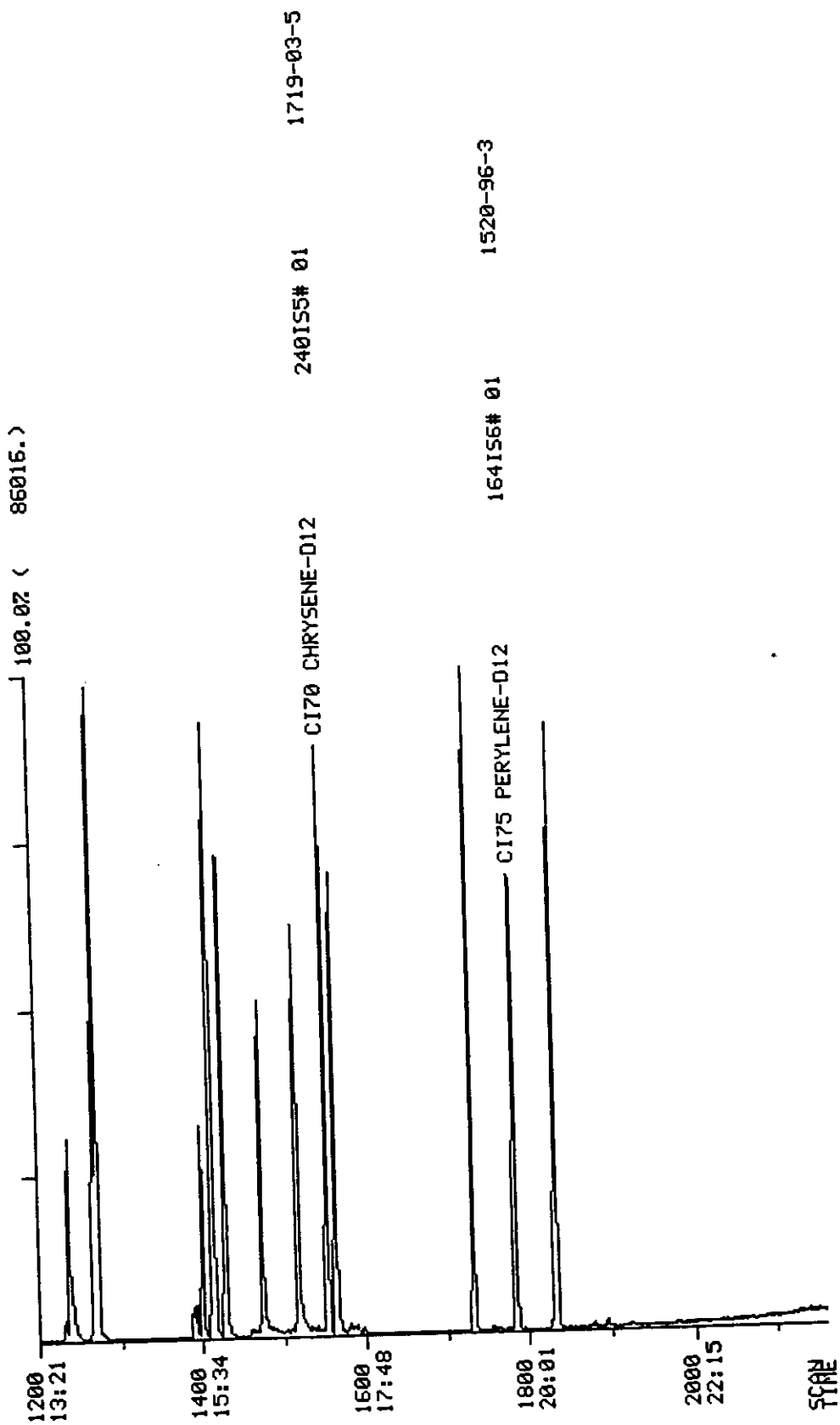
DATA FROM FILE: ST16980831D SCANS 230 TO 1200 ACQUIRED: 08/31/98 14:32:00
CALI: ST16980831D #3

SAMPLE: 50UG/ML AP9 062598E
COND.: INST. ID: F16



DATA FROM FILE: ST16980831D SCANS 1200 TO 2158 ACQUIRED: 08/31/98 14:32:00
CALI: ST16980831D #3

SAMPLE: 50UG/ML AP9 062598E
CONDS.: INST. ID: F16



Data: ST16980831D.T1

08/31/98 14:32:00

Sample: 50UG/ML AP9 062598E

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLORO BENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	2-PICOLINE	93 S1# 30	109-06-8
9	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
10	METHYLMETHANESULFONATE	80 S1# 60	
11	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
12	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
13	PENTACHLOROETHANE	117 S1# 95	76-01-7
14	C361 ACETOPHENONE	105 S1#170	
15	N-NITROSPYRROLIDINE	100 S1#175	930-55-2
16	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
17	3-METHYL PHENOL	108 S1#182	
18	O-TOLUIDINE	106 S1#195	95-53-4
19	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
20	AA-DIMETHYLPHENETHYLAMINE	58 S2# 50	122-09-8
21	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
22	HEXACHLOROPROPENE	213 S2# 90	
23	P-PHENYLENE DIAMINE	108 S2#115	106-50-3
24	N-NITROSOI-N-BUTYLAMINE	84 S2#120	924-16-3
25	SAFROLE	152 S2#140	94-59-7
26	1,2,4,5-TETRACHLORO BENZENE	214 S3# 10	95-94-3
27	ISOSAFROLE (#1)	162 S3# 15	120-58-1
28	ISOSAFROLE (#2)	104 S3# 35	120-58-1
29	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
30	1,4-NAPHTHOQUINONE	158 S3# 50	130-15-4
31	1,3-DINITROBENZENE	168 S3# 60	99-65-0
32	PENTACHLORO BENZENE	250 S3#100	708-93-5
33	1-NAPHTHYLAMINE	143 S3#110	134-32-7
34	2-NAPHTHYLAMINE	143 S3#115	91-59-8
35	2,3,4,6-TETRACHLOROPHENOL	232 S3#120	58-90-2
36	5-NITRO-O-TOLUIDINE	152 S3#145	99-52-5
37	SYM-TRINITROBENZENE	75 S4# 25	
38	PHENACETIN	108 S4#35	62-44-2
39	DIALATE	234 S4# 37	
40	4-AMINOBI PHENYL	169 S4# 45	92-67-1
41	PRONAMIDE	173 S4# 55	23950-58-5
42	PENTACHLORONITROBENZENE	237 S4# 60	82-68-8
43	2SECBUTYL-4,6-DINITROPHENOL	211 S4# 75	88-85-7
44	4-NITROQUINOLINE-1-OXIDE	190 S4#100	
45	METHAPYRILENE	58 S4#105	91-80-5
46	ISODRIN		
47	CHLOROBENZILATE	139 S4#120	

No	Name		
48	ARAMITE (#1)	185 S5# 20	140-57-8
49	ARAMITE (#2)	185 S5# 25	140-57-8
50	P-DIMETHYLAMINOAZOBENZENE	120 S5# 30	60-11-7

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	340	3:47	1	1.000	A BB	28687.	40.000 UG/ML	1.49
2	136	529	5:53	2	1.000	A BB	104087.	40.000 UG/ML	1.49
3	164	828	9:13	3	1.000	A BV	58806.	40.000 UG/ML	1.49
4	188	1086	12:05	4	1.000	A BB	103078.	40.000 UG/ML	1.49
5	240	1551	17:15	5	1.000	A VB	69225.	40.000 UG/ML	1.49
6	264	1782	19:49	6	1.000	A BB	57648.	40.000 UG/ML	1.49
7	79	103	1:09	1	0.303	A BB	56577.	50.000 UG/ML	1.86
8	93	145	1:37	1	0.426	A BB	57154.	50.000 UG/ML	1.86
9	42	157	1:45	1	0.462	A BB	29520.	50.000 UG/ML	1.86
10	80	182	2:01	1	0.535	A BB	24557.	50.000 UG/ML	1.86
11	102	217	2:25	1	0.638	A BB	18688.	50.000 UG/ML	1.86
12	79	254	2:50	1	0.747	A BB	40170.	50.000 UG/ML	1.86
13	117	302	3:22	1	0.888	A BB	21710.	50.000 UG/ML	1.86
14	105	403	4:29	1	1.185	A BV	70275.	50.000 UG/ML	1.86
15	100	402	4:28	1	1.182	A BB	20603.	50.000 UG/ML	1.86
16	56	409	4:33	1	1.203	A BB	29437.	50.000 UG/ML	1.86
17	108	417	4:38	1	1.226	A BB	83872.	50.000 UG/ML	1.86
18	106	407	4:32	1	1.197	A BB	79912.	50.000 UG/ML	1.86
19	42	449	5:00	2	0.849	A BB	42444.	50.000 UG/ML	1.86
20	58	685	7:37	2	1.295	qedt (1)	176012.	50.000 UG/ML	1.86
21	162	551	6:08	2	1.042	A BB	34375.	50.000 UG/ML	1.86
22	213	548	6:06	2	1.036	A BB	26126.	50.000 UG/ML	1.86
23	108	618	6:52	2	1.168	qedt (1)	21776.	50.000 UG/ML	1.86
24	84	619	6:53	2	1.170	A BB	27751.	50.000 UG/ML	1.86
25	162	647	7:12	2	1.223	A BB	32194.	50.000 UG/ML	1.86
26	214	680	7:34	3	0.821	A BB	31894.	50.000 UG/ML	1.86
27	162	698	7:46	3	0.843	A BB	3066.	50.000 UG/ML	1.86
28	104	737	8:12	3	0.890	A BB	14360.	50.000 UG/ML	1.86
29	162	732	8:09	3	0.884	A BV	82983.	50.000 UG/ML	1.86
30	158	769	8:33	3	0.929	A BB	31543.	50.000 UG/ML	1.86
31	168	802	8:55	3	0.969	A BB	14862.	50.000 UG/ML	1.86
32	250	857	9:32	3	1.035	A BB	35528.	50.000 UG/ML	1.86
33	143	882	9:49	3	1.065	A BB	65362.	50.000 UG/ML	1.86
34	143	897	9:59	3	1.083	A BB	76505.	50.000 UG/ML	1.86
35	232	895	9:57	3	1.081	A BB	22189.	50.000 UG/ML	1.86
36	152	938	10:26	3	1.133	A BB	27016.	50.000 UG/ML	1.86
37	75	1025	11:24	4	0.944	A BB	20893.	50.000 UG/ML	1.86
38	108	1032	11:29	4	0.950	A BB	41692.	50.000 UG/ML	1.86
39	234	1017	11:19	4	0.936	A BB	11272.	50.000 UG/ML	1.86
40	169	1068	11:53	4	0.983	A VB	85529.	50.000 UG/ML	1.86
41	173	1094	12:10	4	1.007	A BB	40637.	50.000 UG/ML	1.86
42	237	1060	11:47	4	0.976	A BB	10186.	50.000 UG/ML	1.86
43	211	1107	12:19	4	1.019	A BV	21220.	50.000 UG/ML	1.86
44	190	1235	13:44	4	1.137	A BB	9477.	50.000 UG/ML	1.86
45	58	1265	14:04	4	1.165	A BB	43644.	50.000 UG/ML	1.86
46	193	1270	14:08	4	1.169	A BB	16648.	50.000 UG/ML	1.86
47	139	1427	15:52	4	1.314	A BB	42346.	50.000 UG/ML	1.86
48	185	1399	15:34	5	0.902	A VB	5450.	50.000 UG/ML	1.86
49	185	1413	15:43	5	0.911	A BB	7782.	50.000 UG/ML	1.86
50	120	1411	15:42	5	0.910	A BB	36805.	50.000 UG/ML	1.86

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.303	1.00	50.00	50.00	1.578	1.578	1.00
8	1:37	1.00	0.426	1.00	50.00	50.00	1.594	1.594	1.00
9	1:45	1.00	0.462	1.00	50.00	50.00	0.823	0.823	1.00
10	2:01	1.00	0.535	1.00	50.00	50.00	0.685	0.685	1.00
11	2:25	1.00	0.641	1.00	50.00	50.00	0.521	0.521	1.00
12	2:50	1.00	0.750	1.00	50.00	50.00	1.120	1.120	1.00
13	3:22	1.00	0.888	1.00	50.00	50.00	0.605	0.605	1.00
14	4:30	1.00	1.188	1.00	50.00	50.00	1.960	1.960	1.00
15	4:30	0.99	1.191	0.99	50.00	50.00	0.575	0.575	1.00
16	4:34	1.00	1.209	1.00	50.00	50.00	0.821	0.821	1.00
17	4:40	1.00	1.232	1.00	50.00	50.00	2.339	2.339	1.00
18	4:32	1.00	1.200	1.00	50.00	50.00	2.228	2.228	1.00
19	5:01	1.00	0.851	1.00	50.00	50.00	0.326	0.326	1.00
20	7:54	0.96	1.340	0.97	50.00	50.00	1.353	1.353	1.00
21	6:08	1.00	1.042	1.00	50.00	50.00	0.264	0.264	1.00
22	6:06	1.00	1.036	1.00	50.00	50.00	0.201	0.201	1.00
23	7:25	0.93	1.258	0.93	50.00	50.00	0.167	0.167	1.00
24	6:54	1.00	1.170	1.00	50.00	50.00	0.213	0.213	1.00
25	7:12	1.00	1.223	1.00	50.00	50.00	0.247	0.247	1.00
26	7:34	1.00	0.822	1.00	50.00	50.00	0.434	0.434	1.00
27	7:46	1.00	0.843	1.00	50.00	50.00	0.042	0.042	1.00
28	8:12	1.00	0.890	1.00	50.00	50.00	0.195	0.195	1.00
29	8:09	1.00	0.885	1.00	50.00	50.00	1.129	1.129	1.00
30	8:34	1.00	0.930	1.00	50.00	50.00	0.429	0.429	1.00
31	8:56	1.00	0.970	1.00	50.00	50.00	0.202	0.202	1.00
32	9:33	1.00	1.036	1.00	50.00	50.00	0.483	0.483	1.00
33	9:49	1.00	1.066	1.00	50.00	50.00	0.889	0.889	1.00
34	10:00	1.00	1.086	1.00	50.00	50.00	1.041	1.041	1.00
35	9:57	1.00	1.081	1.00	50.00	50.00	0.302	0.302	1.00
36	10:27	1.00	1.135	1.00	50.00	50.00	0.368	0.368	1.00
37	11:24	1.00	0.943	1.00	50.00	50.00	0.162	0.162	1.00
38	11:30	1.00	0.951	1.00	50.00	50.00	0.324	0.324	1.00
39	11:19	1.00	0.937	1.00	50.00	50.00	0.087	0.087	1.00
40	11:53	1.00	0.983	1.00	50.00	50.00	0.664	0.664	1.00
41	12:11	1.00	1.008	1.00	50.00	50.00	0.315	0.315	1.00
42	11:48	1.00	0.976	1.00	50.00	50.00	0.079	0.079	1.00
43	12:19	1.00	1.019	1.00	50.00	50.00	0.165	0.165	1.00
44	13:45	1.00	1.137	1.00	50.00	50.00	0.074	0.074	1.00
45	14:05	1.00	1.165	1.00	50.00	50.00	0.339	0.339	1.00
46	14:08	1.00	1.168	1.00	50.00	50.00	0.129	0.129	1.00
47	15:52	1.00	1.313	1.00	50.00	50.00	0.329	0.329	1.00
48	15:34	1.00	0.902	1.00	50.00	50.00	0.063	0.063	1.00
49	15:44	1.00	0.912	1.00	50.00	50.00	0.090	0.090	1.00
50	15:42	1.00	0.910	1.00	50.00	50.00	0.425	0.425	1.00

Quantitation Report File: ST16980831D

Data: ST16980831D.T1

08/31/98 14:32:00

Sample: 50UG/ML AP9 062598E

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No Name

51	3,3'-DIMETHYLBENZIDINE	212 S5# 35	
52	KEPONE	272 S5# 37	
53	2-ACETYLAMINOFLUORENE	181 S5# 45	53-96-3
54	3-METHYLCHOLANTHRENE	268 S5# 85	56-49-5
55	7,12-DIMETHYLBENZANTHRACENE	256 S6# 20	75-97-6
56	HEXACHLOROPHENE	196 S6# 30	70-30-4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	212	1472	16:22	5	0.949	A BB	38968.	50.000 UG/ML	1.86
52	272	1472	16:22	5	0.949	qedt(2)	7520.	50.000 UG/ML	1.86
53	181	1515	16:51	5	0.977	A BB	38918.	50.000 UG/ML	1.86
54	268	1831	20:22	5	1.181	A BB	49854.	50.000 UG/ML	1.86
55	256	1730	19:15	6	0.971	A BB	44288.	50.000 UG/ML	1.86
56	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:22	1.00	0.949	1.00	50.00	50.00	0.450	0.450	1.00
52	16:13	1.01	0.940	1.01	50.00	50.00	0.087	0.087	1.00
53	16:52	1.00	0.977	1.00	50.00	50.00	0.450	0.450	1.00
54	20:23	1.00	1.181	1.00	50.00	50.00	0.576	0.576	1.00
55	19:15	1.00	0.971	1.00	50.00	50.00	0.615	0.615	1.00
56	21:11		0.992						

MANUAL EDIT CODES

1. PEAK NOT FOUND
2. POOR CHROMATOGRAPHY
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
INITIALED, DATED, AND CODED

1561

RIC+MASS CHROMATOGRAM

08/31/98 14:32:00

SAMPLE: 50UG/ML AP9 062598E

CONDS.: INST. ID: F16

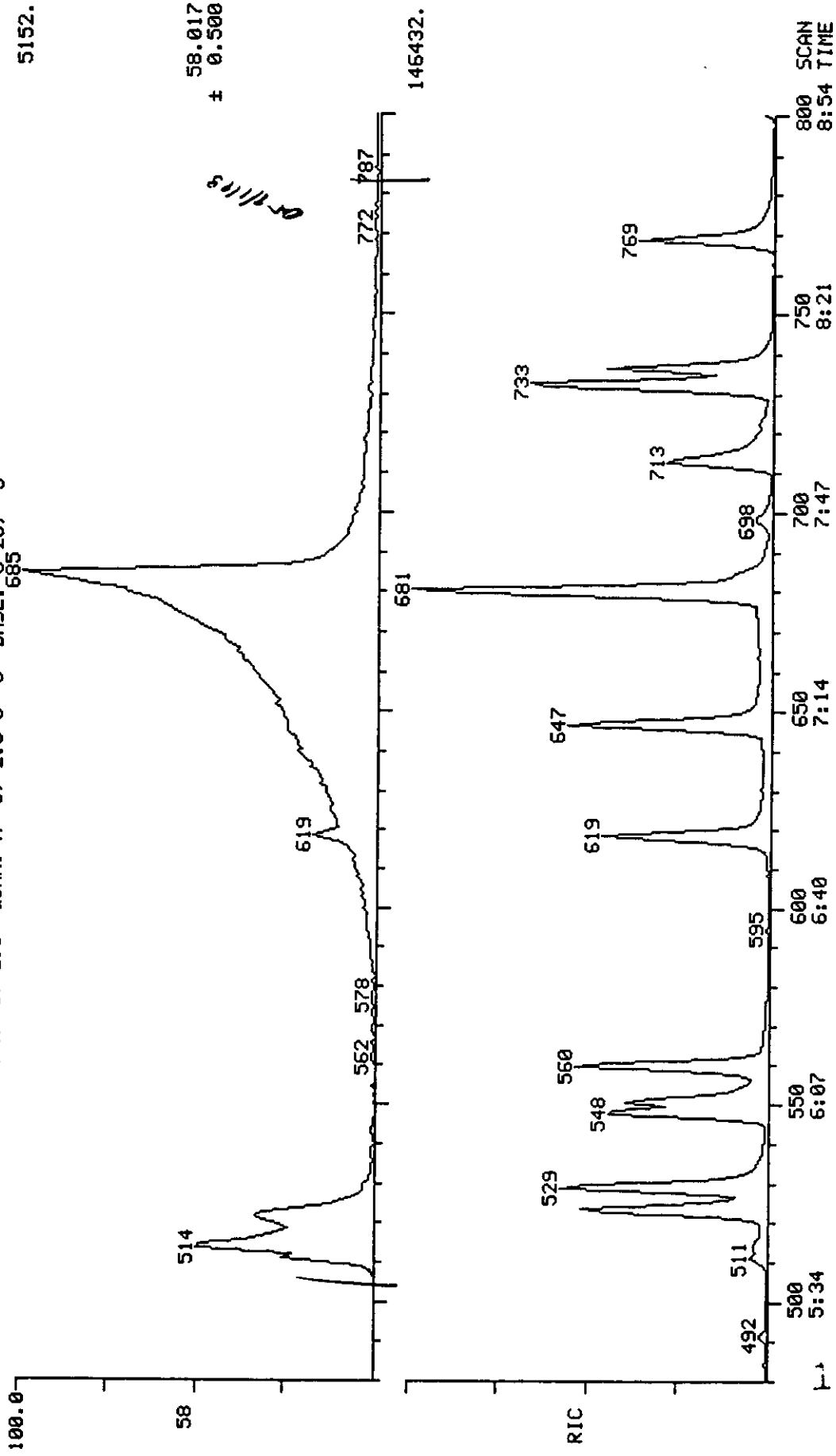
RANGE: G 1.2158 LABEL: N 0. 2.0 QUAN: A 6. 2.0 J 0 BASE: U 20. 3

DATA: ST16980831D #1

CALI: ST16980831D #3

SCANS 480 TO 800

5152.



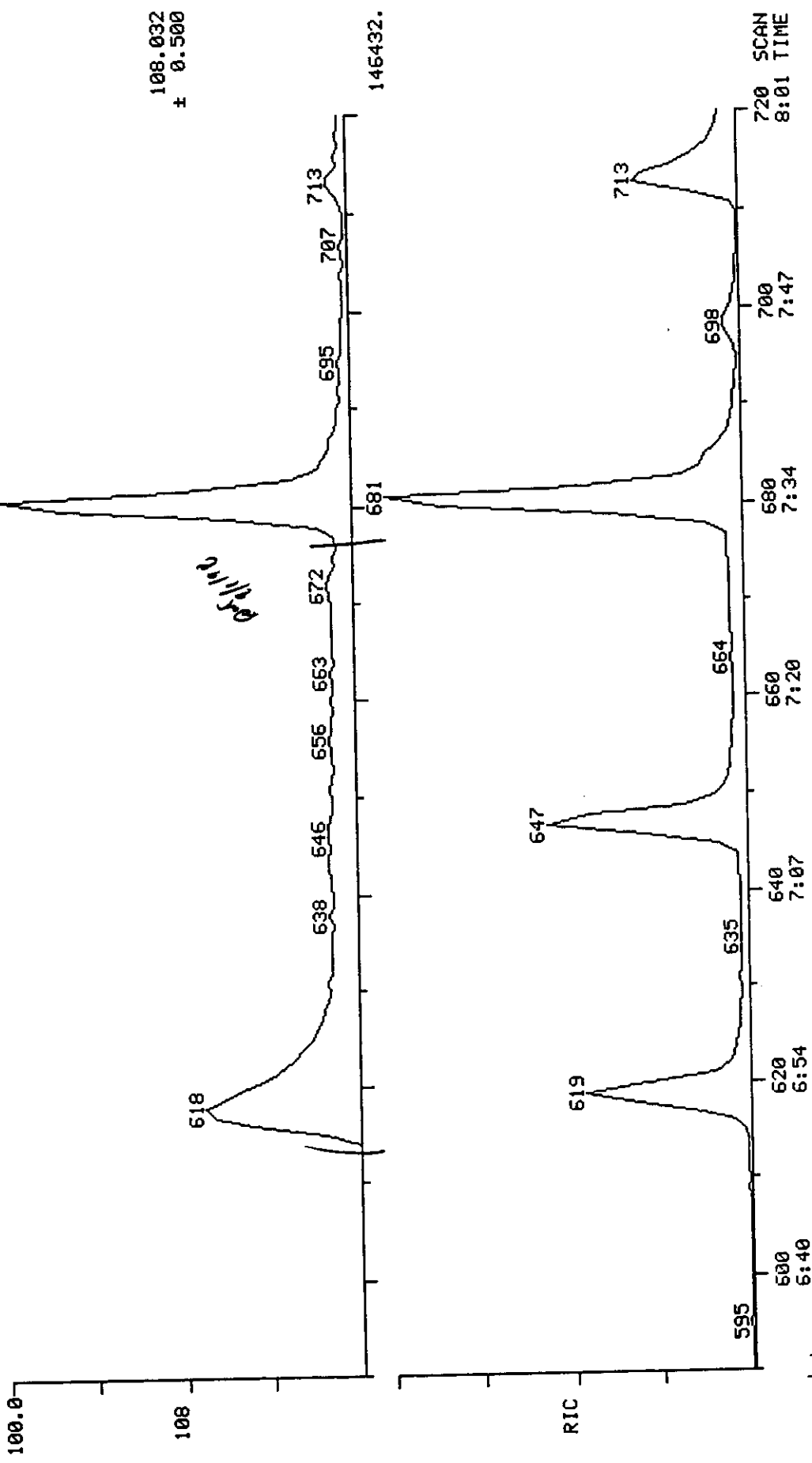
1562

RIC+MASS CHROMATOGRAM

DATA: ST16980831D #1
CALI: ST16980831D #3

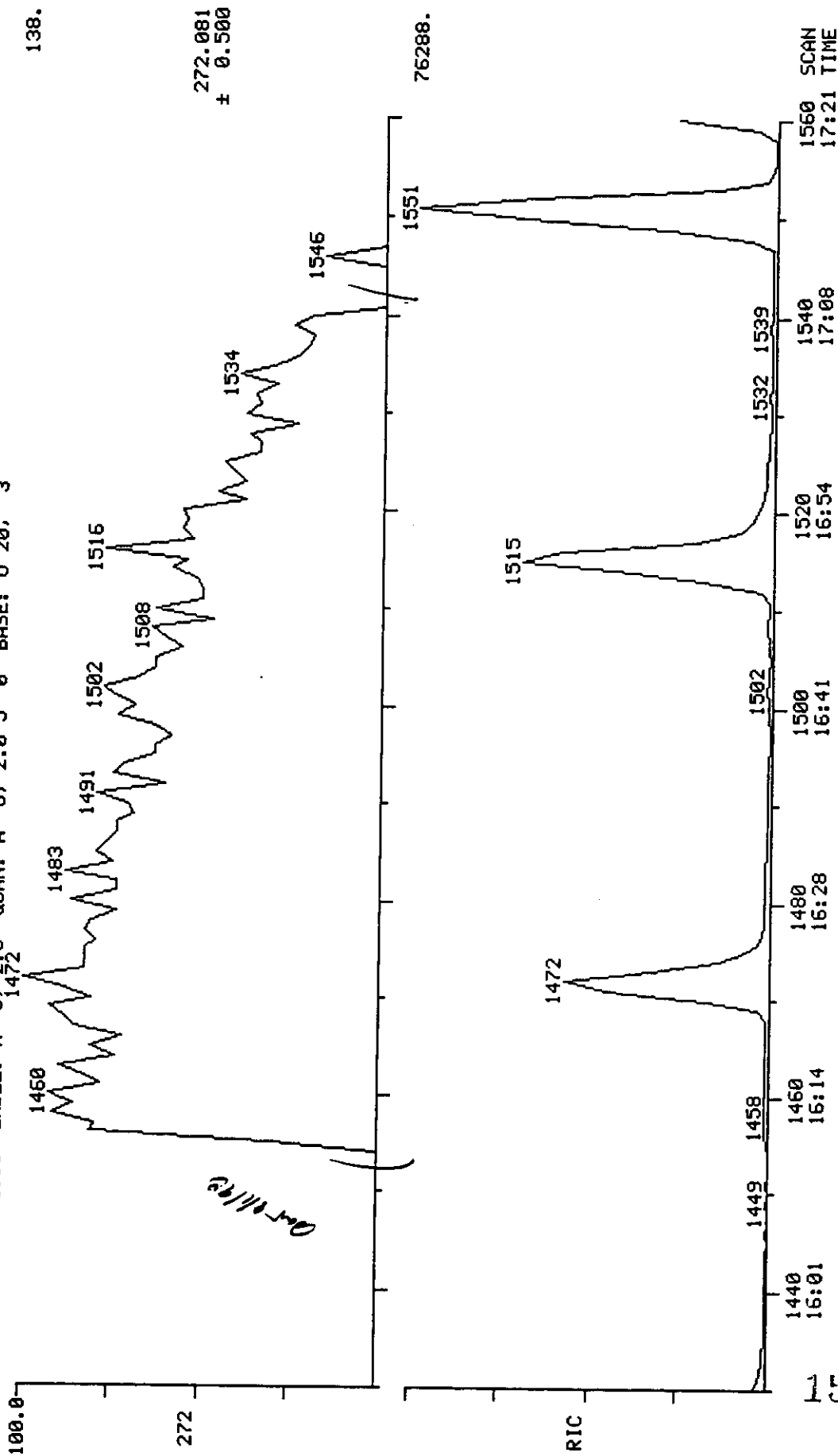
08/31/98 14:32:00
SAMPLE: 50UG/ML AP9 062598E
CONDOS.: INST. ID: F15
RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

3304.



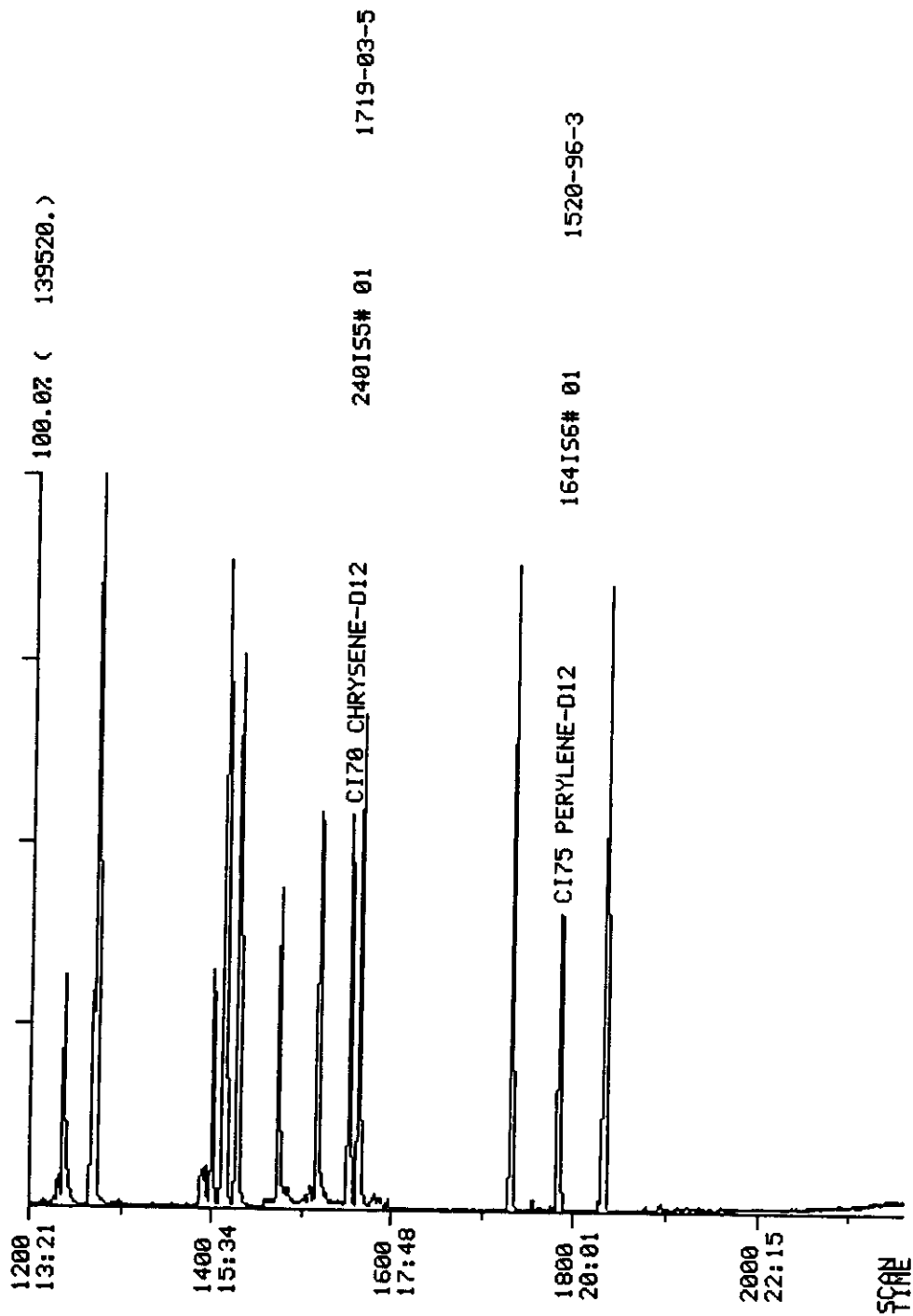
1503

RIC+MASS CHROMATOGRAM
 08/31/98 14:32:00
 SAMPLE: 50UG/ML AP9 062598E
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3
 DATA: ST16980831D #1
 CALI: ST16980831D #3
 SCANS 1430 TO 1560



1534

DATA FROM FILE: ST16980831A SCANS 1200 TO 2158 ACQUIRED: 08/31/98 13:07:00
SAMPLE: 80UG/ML AP9 062598F
COND5.: INST. ID: F16
CALI: ST16980831A #3



1556

Data: ST16980831A.TI

08/31/98 13:07:00

Sample: 80UG/ML AP9 062598F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	1521S1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	1361S2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	1641S3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	1881S4# 01	1517-22-2
5	C170 CHRYSENE-D12	2401S5# 01	1719-03-5
6	C175 PERYLENE-D12	1641S6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	2-PICOLINE	93 S1# 30	109-06-8
9	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
10	METHYLMETHANESULFONATE	80 S1# 60	
11	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
12	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
13	PENTACHLOROETHANE	117 S1# 95	76-01-7
14	C361 ACETOPHENONE	105 S1#170	
15	N-NITROSPYRROLIDINE	100 S1#175	930-55-2
16	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
17	3-METHYL PHENOL	108 S1#182	
18	O-TOLUIDINE	106 S1#195	95-53-4
19	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
20	AA-DIMETHYLPHENETHYLAMINE	58 S2# 50	122-09-8
21	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
22	HEXACHLOROPROPENE	213 S2# 90	
23	P-PHENYLENE DIAMINE	108 S2#115	106-50-3
24	N-NITROSODI-N-BUTYLAMINE	84 S2#120	924-16-3
25	SAFROLE	152 S2#140	94-59-7
26	1,2,4,5-TETRACHLOROBENZENE	214 S3# 10	95-94-3
27	ISOSAFROLE (#1)	162 S3# 15	120-58-1
28	ISOSAFROLE (#2)	104 S3# 35	120-58-1
29	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
30	1,4-NAPHTHOQUINONE	158 S3# 50	130-15-4
31	1,3-DINITROBENZENE	168 S3# 60	99-65-0
32	PENTACHLOROBENZENE	250 S3#100	708-93-5
33	1-NAPHTHYLAMINE	143 S3#110	134-32-7
34	2-NAPHTHYLAMINE	143 S3#115	91-59-8
35	2,3,4,6-TETRACHLOROPHENOL	232 S3#120	58-90-2
36	5-NITRO-O-TOLUIDINE	152 S3#145	99-52-5
37	SYM-TRINITROBENZENE	75 S4# 25	
38	PHENACETIN	108 S4#35	62-44-2
39	DIALATE	234 S4# 37	
40	4-AMINOBIIPHENYL	169 S4# 45	92-67-1
41	PRONAMIDE	173 S4# 55	23950-58-5
42	PENTACHLORONITROBENZENE	237 S4# 60	82-68-8
43	2SECBUTYL-4,6-DINITROPHENOL	211 S4# 75	88-85-7
44	4-NITROQUINOLINE-1-OXIDE	190 S4#100	
45	METHAPYRILENE	58 S4#105	91-80-5
46	ISODRIN		
47	CHLOROBENZILATE	139 S4#120	

No	Name		
48	ARAMITE (#1)	185 S5# 20	140-57-8
49	ARAMITE (#2)	185 S5# 25	140-57-8
50	P-DIMETHYLAMINOAZOBENZENE	120 S5# 30	60-11-7

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	340	3:47	1	1.000	A BB	29680.	40.000 UG/ML	0.96
2	136	530	5:54	2	1.000	A BB	108356.	40.000 UG/ML	0.96
3	164	828	9:13	3	1.000	A BB	60104.	40.000 UG/ML	0.96
4	188	1087	12:05	4	1.000	A BB	107988.	40.000 UG/ML	0.96
5	240	1551	17:15	5	1.000	A BV	69686.	40.000 UG/ML	0.96
6	264	1782	19:49	6	1.000	A BB	54786.	40.000 UG/ML	0.96
7	79	103	1:09	1	0.303	A BB	94198.	80.000 UG/ML	1.92
8	93	145	1:37	1	0.426	A BB	93595.	80.000 UG/ML	1.92
9	42	157	1:45	1	0.462	A BB	51975.	80.000 UG/ML	1.92
10	80	182	2:01	1	0.535	A BB	35745.	80.000 UG/ML	1.92
11	102	218	2:25	1	0.641	A BB	32568.	80.000 UG/ML	1.92
12	79	255	2:50	1	0.750	A BB	69355.	80.000 UG/ML	1.92
13	117	302	3:22	1	0.888	A BB	35884.	80.000 UG/ML	1.92
14	105	404	4:30	1	1.188	A BB	115427.	80.000 UG/ML	1.92
15	100	405	4:30	1	1.191	A BB	33375.	80.000 UG/ML	1.92
16	56	411	4:34	1	1.209	A BV	47803.	80.000 UG/ML	1.92
17	108	419	4:40	1	1.232	A BB	142918.	80.000 UG/ML	1.92
18	106	408	4:32	1	1.200	A BB	126404.	80.000 UG/ML	1.92
19	42	451	5:01	2	0.851	A BV	70838.	80.000 UG/ML	1.92
20	58	710	7:54	2	1.340	qedt	224618.	80.000 UG/ML	1.92
21	162	552	6:08	2	1.042	A BB	60603.	80.000 UG/ML	1.92
22	213	549	6:06	2	1.036	A BB	42724.	80.000 UG/ML	1.92
23	108	667	7:25	2	1.258	qedt	8144.	80.000 UG/ML	1.92
24	84	620	6:54	2	1.170	A BB	48711.	80.000 UG/ML	1.92
25	162	648	7:12	2	1.223	A BB	54270.	80.000 UG/ML	1.92
26	214	681	7:34	3	0.822	A BB	51722.	80.000 UG/ML	1.92
27	162	698	7:46	3	0.843	A BB	5166.	80.000 UG/ML	1.92
28	104	737	8:12	3	0.890	A BB	23560.	80.000 UG/ML	1.92
29	162	733	8:09	3	0.885	A BB	183709.	80.000 UG/ML	1.92
30	158	770	8:34	3	0.930	A BB	53790.	80.000 UG/ML	1.92
31	168	803	8:56	3	0.970	A BB	25287.	80.000 UG/ML	1.92
32	250	858	9:33	3	1.036	A BB	59261.	80.000 UG/ML	1.92
33	143	883	9:49	3	1.066	A BB	91990.	80.000 UG/ML	1.92
34	143	899	10:00	3	1.086	A BB	119758.	80.000 UG/ML	1.92
35	232	895	9:57	3	1.081	A BB	37212.	80.000 UG/ML	1.92
36	152	940	10:27	3	1.135	A BB	45826.	80.000 UG/ML	1.92
37	75	1025	11:24	4	0.943	A VB	37064.	80.000 UG/ML	1.92
38	108	1034	11:30	4	0.951	A BB	68243.	80.000 UG/ML	1.92
39	234	1018	11:19	4	0.937	A BV	19166.	80.000 UG/ML	1.92
40	169	1069	11:53	4	0.983	A BB	130115.	80.000 UG/ML	1.92
41	173	1096	12:11	4	1.008	A BB	65067.	80.000 UG/ML	1.92
42	237	1061	11:48	4	0.976	A BB	17138.	80.000 UG/ML	1.92
43	211	1108	12:19	4	1.019	A VB	35264.	80.000 UG/ML	1.92
44	190	1236	13:45	4	1.137	A BB	16496.	80.000 UG/ML	1.92
45	58	1266	14:05	4	1.165	A BB	44262.	80.000 UG/ML	1.92
46	193	1270	14:08	4	1.168	A BV	27606.	80.000 UG/ML	1.92
47	139	1427	15:52	4	1.313	A BB	66594.	80.000 UG/ML	1.92
48	185	1399	15:34	5	0.902	A BB	8471.	80.000 UG/ML	1.92
49	185	1414	15:44	5	0.912	A BB	12567.	80.000 UG/ML	1.92
50	120	1412	15:42	5	0.910	A VB	58473.	80.000 UG/ML	1.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.303	1.00	80.00	80.00	1.587	1.587	1.00
8	1:37	1.00	0.426	1.00	80.00	80.00	1.577	1.577	1.00
9	1:45	1.00	0.462	1.00	80.00	80.00	0.876	0.876	1.00
10	2:01	1.00	0.535	1.00	80.00	80.00	0.602	0.602	1.00
11	2:25	1.00	0.641	1.00	80.00	80.00	0.549	0.549	1.00
12	2:50	1.00	0.750	1.00	80.00	80.00	1.168	1.168	1.00
13	3:22	1.00	0.888	1.00	80.00	80.00	0.605	0.605	1.00
14	4:30	1.00	1.188	1.00	80.00	80.00	1.945	1.945	1.00
15	4:30	1.00	1.191	1.00	80.00	80.00	0.562	0.562	1.00
16	4:34	1.00	1.209	1.00	80.00	80.00	0.805	0.805	1.00
17	4:40	1.00	1.232	1.00	80.00	80.00	2.408	2.408	1.00
18	4:32	1.00	1.200	1.00	80.00	80.00	2.129	2.129	1.00
19	5:01	1.00	0.851	1.00	80.00	80.00	0.327	0.327	1.00
20	7:54	1.00	1.340	1.00	80.00	80.00	1.036	1.036	1.00
21	6:08	1.00	1.042	1.00	80.00	80.00	0.280	0.280	1.00
22	6:06	1.00	1.036	1.00	80.00	80.00	0.197	0.197	1.00
23	7:25	1.00	1.258	1.00	80.00	80.00	0.038	0.038	1.00
24	6:54	1.00	1.170	1.00	80.00	80.00	0.225	0.225	1.00
25	7:12	1.00	1.223	1.00	80.00	80.00	0.250	0.250	1.00
26	7:34	1.00	0.822	1.00	80.00	80.00	0.430	0.430	1.00
27	7:46	1.00	0.843	1.00	80.00	80.00	0.043	0.043	1.00
28	8:12	1.00	0.890	1.00	80.00	80.00	0.196	0.196	1.00
29	8:09	1.00	0.885	1.00	80.00	80.00	1.528	1.528	1.00
30	8:34	1.00	0.930	1.00	80.00	80.00	0.447	0.447	1.00
31	8:56	1.00	0.970	1.00	80.00	80.00	0.210	0.210	1.00
32	9:33	1.00	1.036	1.00	80.00	80.00	0.493	0.493	1.00
33	9:49	1.00	1.066	1.00	80.00	80.00	0.765	0.765	1.00
34	10:00	1.00	1.086	1.00	80.00	80.00	0.996	0.996	1.00
35	9:57	1.00	1.081	1.00	80.00	80.00	0.310	0.310	1.00
36	10:27	1.00	1.135	1.00	80.00	80.00	0.381	0.381	1.00
37	11:24	1.00	0.943	1.00	80.00	80.00	0.172	0.172	1.00
38	11:30	1.00	0.951	1.00	80.00	80.00	0.316	0.316	1.00
39	11:19	1.00	0.937	1.00	80.00	80.00	0.089	0.089	1.00
40	11:53	1.00	0.983	1.00	80.00	80.00	0.602	0.602	1.00
41	12:11	1.00	1.008	1.00	80.00	80.00	0.301	0.301	1.00
42	11:48	1.00	0.976	1.00	80.00	80.00	0.079	0.079	1.00
43	12:19	1.00	1.019	1.00	80.00	80.00	0.163	0.163	1.00
44	13:45	1.00	1.137	1.00	80.00	80.00	0.076	0.076	1.00
45	14:05	1.00	1.165	1.00	80.00	80.00	0.205	0.205	1.00
46	14:08	1.00	1.168	1.00	80.00	80.00	0.128	0.128	1.00
47	15:52	1.00	1.313	1.00	80.00	80.00	0.308	0.308	1.00
48	15:34	1.00	0.902	1.00	80.00	80.00	0.061	0.061	1.00
49	15:44	1.00	0.912	1.00	80.00	80.00	0.090	0.090	1.00
50	15:42	1.00	0.910	1.00	80.00	80.00	0.420	0.420	1.00

Quantitation Report File: ST16980831A

Data: ST16980831A.TI

08/31/98 13:07:00

Sample: 80UG/ML AP9 062598F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No Name

51	3,3'-DIMETHYLBENZIDINE	212 S5# 35	
52	KEPONE	272 S5# 37	
53	2-ACETYLAMINOFLUORENE	181 S5# 45	53-96-3
54	3-METHYLCHOLANTHRENE	268 S5# 85	56-49-5
55	7,12-DIMETHYLBENZANTHRACENE	256 S6# 20	75-97-6
56	HEXACHLOROPHENE	196 S6# 30	70-30-4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	212	1472	16:22	5	0.949	A BB	56612.	80.000 UG/ML	1.92
52	272	1458	16:13	5	0.940	qedt (h)	12434.	80.000 UG/ML	1.92
53	181	1516	16:52	5	0.977	A BB	61022.	80.000 UG/ML	1.92
54	268	1832	20:23	5	1.181	A BB	76474.	80.000 UG/ML	1.92
55	256	1731	19:15	6	0.971	A BB	66838.	80.000 UG/ML	1.92
56	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:22	1.00	0.949	1.00	80.00	80.00	0.406	0.406	1.00
52	16:13	1.00	0.940	1.00	80.00	80.00	0.089	0.089	1.00
53	16:52	1.00	0.977	1.00	80.00	80.00	0.438	0.438	1.00
54	20:23	1.00	1.181	1.00	80.00	80.00	0.549	0.549	1.00
55	19:15	1.00	0.971	1.00	80.00	80.00	0.610	0.610	1.00
56	21:11		0.992						

MANUAL EDIT CODES
 1. PEAK NOT FOUND
 2. POOR CHROMATOGRAPH.
 3. WRONG ISOMER
 ALL MANUAL EDITS MUST BE
 INITIALED, DATED, AND CODED.

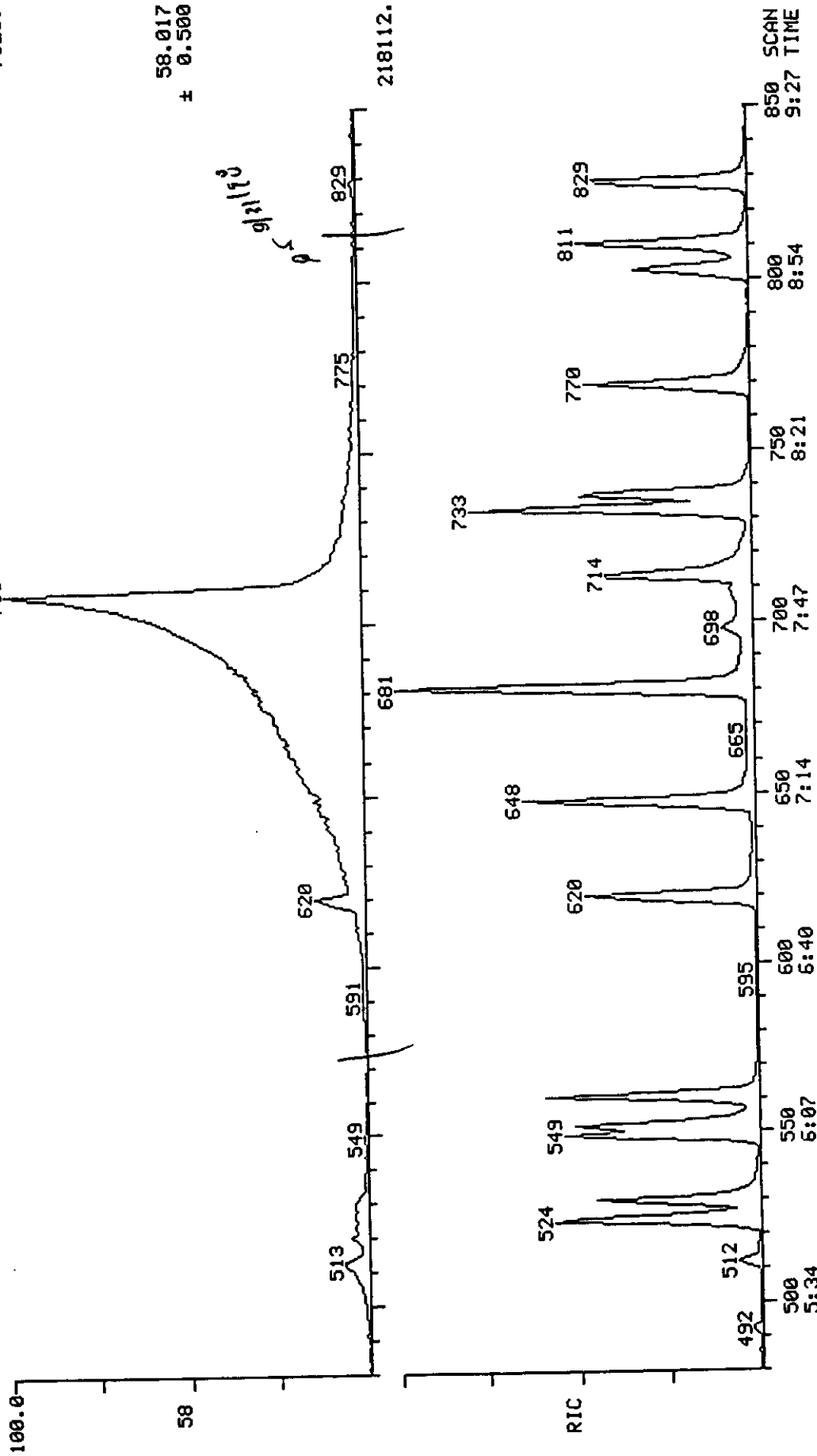
1570

RIC+MASS CHROMATOGRAM

08/31/98 13:07:00
 SAMPLE: 80UG/ML AP9 062598F
 CONDS.: INST. ID: F16
 RANGE: C 1.2158 LABEL: N 0.2.0 QUAN: A 6.2.0 J 0 BASE: U 20.3

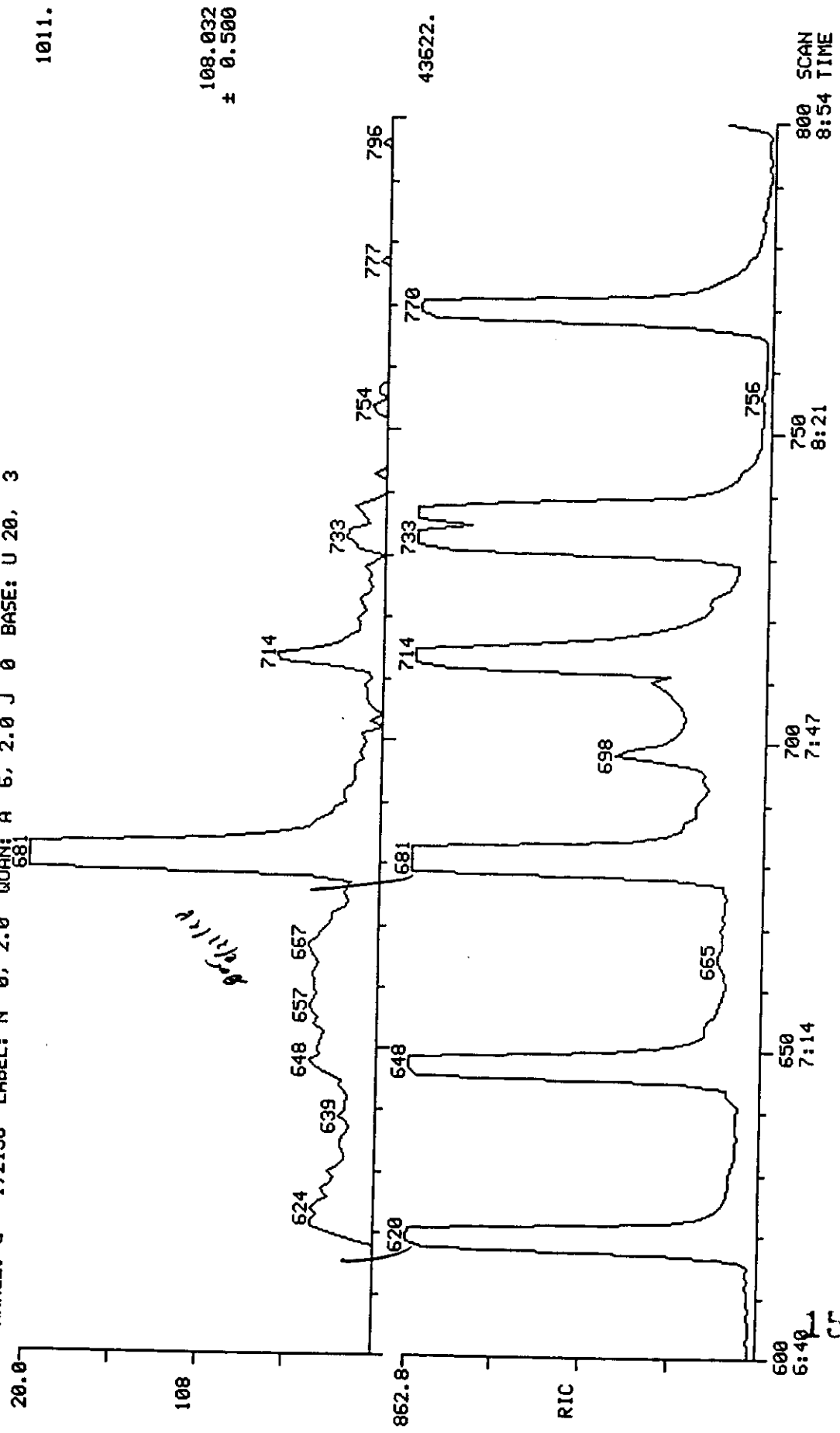
DATA: ST16980831A #1
 CALI: ST16980831A #3

7528.



1571

RIC+MASS CHROMATOGRAM
 08/31/98 13:07:00
 SAMPLE: 80UG/ML AP9 062598F
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3
 DATA: ST16980831A #1
 CALI: ST16980831A #3
 SCANS 600 TO 800



1572

RIC+MASS CHROMATOGRAM DATA: ST16980831A #1 SCANS 1440 TO 1590

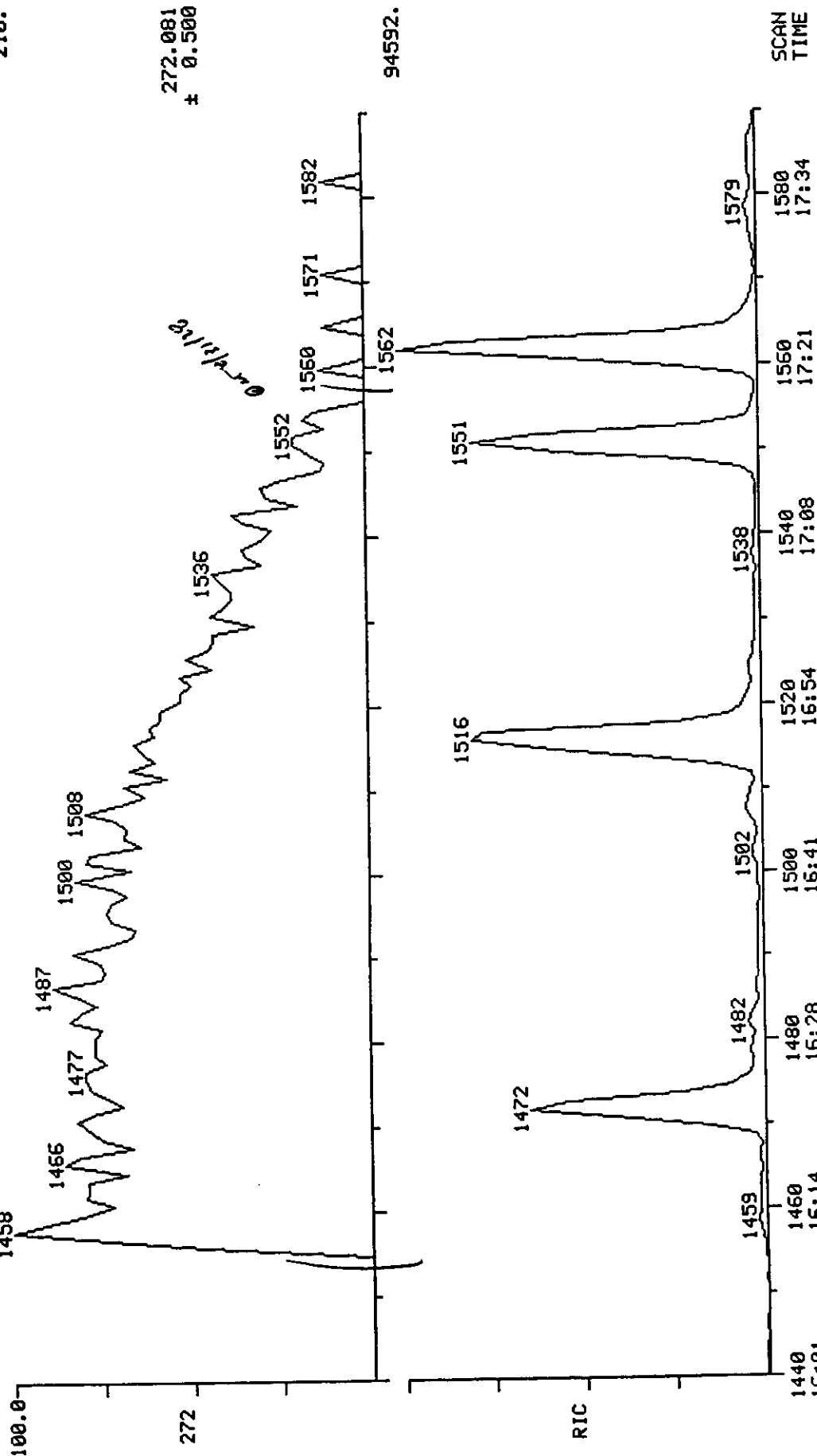
08/31/98 13:07:00 CALI: ST16980831A #3

SAMPLE: 80UG/ML AP9 062598F

CONDS.: INST. ID: F16

RANGE: G 1458 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

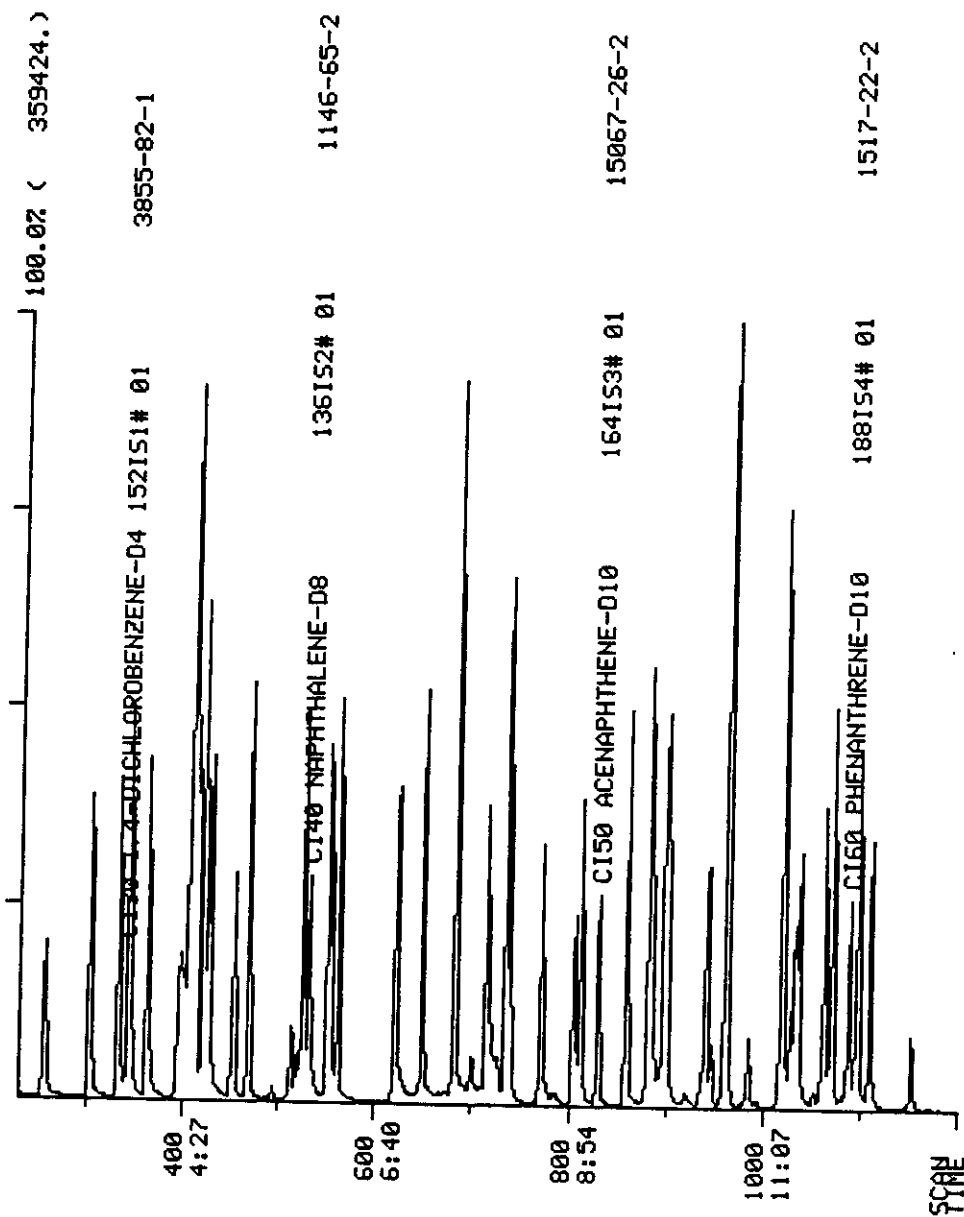
210.



SCAN TIME

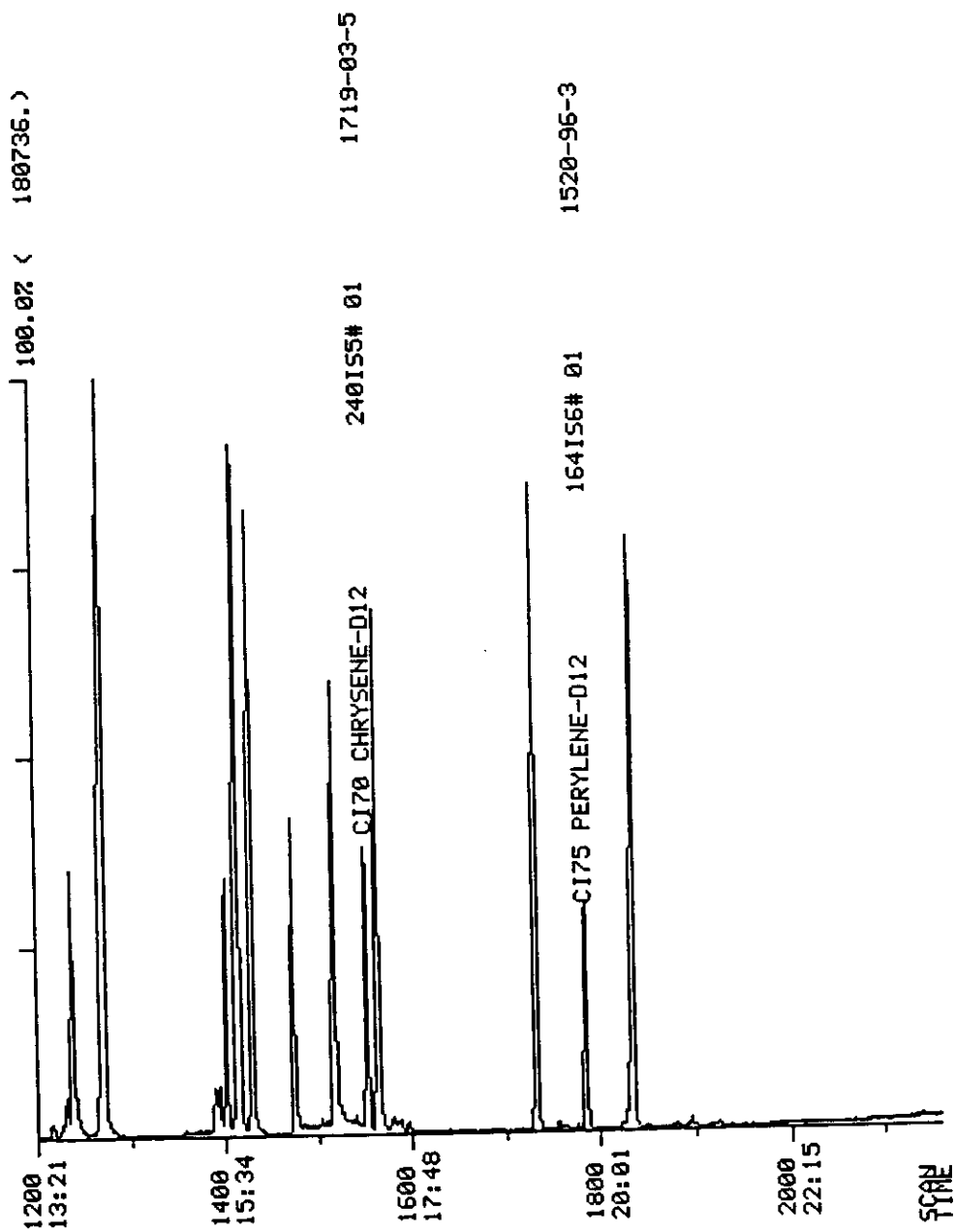
1440 16:01 5.73

DATA FROM FILE: ST16980831E SCANS 230 TO 1200 ACQUIRED: 08/31/98 15:02:00
CALI: ST16980831E #3
SAMPLE: 120UG/MIL AP9 062598G
CONDS.: INST. ID: F16



DATA FROM FILE: ST16980831E SCANS 1200 TO 2158 ACQUIRED: 08/31/98 15:02:00
CALI: ST16980831E #3

SAMPLE: 120UG/ML AP9 062598G
CONDS.: INST. ID: F16



1575

Data: ST16980831E.T1

08/31/98 15:02:00

Sample: 120UG/ML AP9 062598G

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	2-PICOLINE	93 S1# 30	109-06-8
9	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
10	METHYLMETHANESULFONATE	80 S1# 60	
11	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
12	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
13	PENTACHLOROETHANE	117 S1# 95	76-01-7
14	C361 ACETOPHENONE	105 S1#170	
15	N-NITROSOPYRROLIDINE	100 S1#175	930-55-2
16	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
17	3-METHYL PHENOL	108 S1#182	
18	O-TOLUIDINE	106 S1#195	95-53-4
19	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
20	AA-DIMETHYLPHENETHYLAMINE	58 S2# 50	122-09-8
21	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
22	HEXACHLOROPROPENE	213 S2# 90	
23	P-PHENYLENE DIAMINE	108 S2#115	106-50-3
24	N-NITROSODI-N-BUTYLAMINE	84 S2#120	924-16-3
25	SAFROLE	152 S2#140	94-59-7
26	1,2,4,5-TETRACHLOROBENZENE	214 S3# 10	95-94-3
27	ISOSAFROLE (#1)	162 S3# 15	120-58-1
28	ISOSAFROLE (#2)	104 S3# 35	120-58-1
29	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
30	1,4-NAPHTHOQUINONE	158 S3# 50	130-15-4
31	1,3-DINITROBENZENE	168 S3# 60	99-65-0
32	PENTACHLOROBENZENE	250 S3#100	708-93-5
33	1-NAPHTHYLAMINE	143 S3#110	134-32-7
34	2-NAPHTHYLAMINE	143 S3#115	91-59-8
35	2,3,4,6-TETRACHLOROPHENOL	232 S3#120	58-90-2
36	5-NITRO-O-TOLUIDINE	152 S3#145	99-52-5
37	SYM-TRINITROBENZENE	75 S4# 25	
38	PHENACETIN	108 S4#35	62-44-2
39	DIALATE	234 S4# 37	
40	4-AMINOBIIPHENYL	169 S4# 45	92-67-1
41	PRONAMIDE	173 S4# 55	23950-58-5
42	PENTACHLORONITROBENZENE	237 S4# 60	82-68-8
43	2SEC BUTYL-4,6-DINITROPHENOL	211 S4# 75	88-85-7
44	4-NITROQUINOLINE-1-OXIDE	190 S4#100	
45	METHAPYRILENE	58 S4#105	91-80-5
46	ISCORIN		
47	CHLOROBENZILATE	139 S4#120	

1578

No	Name		
48	ARAMITE (#1)	185 S5# 20	140-57-8
49	ARAMITE (#2)	185 S5# 25	140-57-8
50	P-DIMETHYLAMINOAZOBENZENE	120 S5# 30	60-11-7

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	340	3:47	1	1.000	A BB	28744.	40.000 UG/ML	0.65
2	136	530	5:54	2	1.000	A BB	103999.	40.000 UG/ML	0.65
3	164	829	9:13	3	1.000	A BB	59122.	40.000 UG/ML	0.65
4	188	1087	12:05	4	1.000	A BB	105381.	40.000 UG/ML	0.65
5	240	1551	17:15	5	1.000	A BB	65508.	40.000 UG/ML	0.65
6	264	1782	19:49	6	1.000	A BB	50966.	40.000 UG/ML	0.65
7	79	103	1:09	1	0.303	A BB	124986.	120.000 UG/ML	1.96
8	93	145	1:37	1	0.426	A BB	133361.	120.000 UG/ML	1.96
9	42	157	1:45	1	0.462	A BB	74200.	120.000 UG/ML	1.96
10	80	183	2:02	1	0.538	A BB	53349.	120.000 UG/ML	1.96
11	102	218	2:25	1	0.641	A BB	47209.	120.000 UG/ML	1.96
12	79	255	2:50	1	0.750	A BB	102579.	120.000 UG/ML	1.96
13	117	302	3:22	1	0.888	A BB	51302.	120.000 UG/ML	1.96
14	105	404	4:30	1	1.188	A BB	164114.	120.000 UG/ML	1.96
15	100	408	4:32	1	1.200	A BB	49105.	120.000 UG/ML	1.96
16	56	413	4:36	1	1.215	A BV	70419.	120.000 UG/ML	1.96
17	108	420	4:40	1	1.235	A BB	206207.	120.000 UG/ML	1.96
18	106	409	4:33	1	1.203	A BB	175232.	120.000 UG/ML	1.96
19	42	453	5:02	2	0.855	A BV	105075.	120.000 UG/ML	1.96
20	58	518	5:46	2	0.977	qedt	398258.	120.000 UG/ML	1.96
21	162	553	6:09	2	1.043	A BB	87089.	120.000 UG/ML	1.96
22	213	549	6:06	2	1.036	A BB	61908.	120.000 UG/ML	1.96
23	108	620	6:54	2	1.170	qedt	51610.	120.000 UG/ML	1.96
24	84	621	6:54	2	1.172	A BB	69976.	120.000 UG/ML	1.96
25	162	648	7:12	2	1.223	A BB	76372.	120.000 UG/ML	1.96
26	214	682	7:35	3	0.823	A BB	73776.	120.000 UG/ML	1.96
27	162	698	7:46	3	0.842	A BB	7754.	120.000 UG/ML	1.96
28	104	738	8:13	3	0.890	A BB	33662.	120.000 UG/ML	1.96
29	162	734	8:10	3	0.885	A BV	201116.	120.000 UG/ML	1.96
30	158	770	8:34	3	0.929	A BB	71569.	120.000 UG/ML	1.96
31	168	804	8:57	3	0.970	A BB	37561.	120.000 UG/ML	1.96
32	250	859	9:33	3	1.036	A BB	83210.	120.000 UG/ML	1.96
33	143	884	9:50	3	1.066	A BB	154679.	120.000 UG/ML	1.96
34	143	900	10:01	3	1.086	A BB	173906.	120.000 UG/ML	1.96
35	232	897	9:59	3	1.082	A BB	54245.	120.000 UG/ML	1.96
36	152	941	10:28	3	1.135	A BB	65110.	120.000 UG/ML	1.96
37	75	1026	11:25	4	0.944	A VB	52333.	120.000 UG/ML	1.96
38	108	1037	11:32	4	0.954	A BB	104180.	120.000 UG/ML	1.96
39	234	1018	11:19	4	0.937	A BV	27989.	120.000 UG/ML	1.96
40	169	1070	11:54	4	0.984	A BB	186405.	120.000 UG/ML	1.96
41	173	1097	12:12	4	1.009	A BB	91956.	120.000 UG/ML	1.96
42	237	1062	11:49	4	0.977	A BB	25788.	120.000 UG/ML	1.96
43	211	1109	12:20	4	1.020	A VB	50397.	120.000 UG/ML	1.96
44	190	1236	13:45	4	1.137	A BB	25074.	120.000 UG/ML	1.96
45	58	1267	14:06	4	1.166	A BB	88136.	120.000 UG/ML	1.96
46	193	1270	14:08	4	1.168	A BB	40006.	120.000 UG/ML	1.96
47	139	1428	15:53	4	1.314	A BB	93332.	120.000 UG/ML	1.96
48	185	1400	15:34	5	0.903	A BB	12488.	120.000 UG/ML	1.96
49	185	1414	15:44	5	0.912	A BB	17022.	120.000 UG/ML	1.96
50	120	1412	15:42	5	0.910	A VB	81049.	120.000 UG/ML	1.96

1577

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.303	1.00	120.00	120.00	1.449	1.449	1.00
8	1:37	1.00	0.426	1.00	120.00	120.00	1.547	1.547	1.00
9	1:45	1.00	0.462	1.00	120.00	120.00	0.860	0.860	1.00
10	2:01	1.01	0.535	1.01	120.00	120.00	0.619	0.619	1.00
11	2:25	1.00	0.641	1.00	120.00	120.00	0.547	0.547	1.00
12	2:50	1.00	0.750	1.00	120.00	120.00	1.190	1.190	1.00
13	3:22	1.00	0.888	1.00	120.00	120.00	0.595	0.595	1.00
14	4:30	1.00	1.188	1.00	120.00	120.00	1.903	1.903	1.00
15	4:30	1.01	1.191	1.01	120.00	120.00	0.569	0.569	1.00
16	4:34	1.00	1.209	1.00	120.00	120.00	0.817	0.817	1.00
17	4:40	1.00	1.232	1.00	120.00	120.00	2.391	2.391	1.00
18	4:32	1.00	1.200	1.00	120.00	120.00	2.032	2.032	1.00
19	5:01	1.00	0.851	1.00	120.00	120.00	0.337	0.337	1.00
20	7:54	0.73	1.340	0.73	120.00	120.00	1.276	1.276	1.00
21	6:08	1.00	1.042	1.00	120.00	120.00	0.279	0.279	1.00
22	6:06	1.00	1.036	1.00	120.00	120.00	0.198	0.198	1.00
23	7:25	0.93	1.258	0.93	120.00	120.00	0.165	0.165	1.00
24	6:54	1.00	1.170	1.00	120.00	120.00	0.224	0.224	1.00
25	7:12	1.00	1.223	1.00	120.00	120.00	0.245	0.245	1.00
26	7:34	1.00	0.822	1.00	120.00	120.00	0.416	0.416	1.00
27	7:46	1.00	0.843	1.00	120.00	120.00	0.044	0.044	1.00
28	8:12	1.00	0.890	1.00	120.00	120.00	0.190	0.190	1.00
29	8:09	1.00	0.885	1.00	120.00	120.00	1.134	1.134	1.00
30	8:34	1.00	0.930	1.00	120.00	120.00	0.404	0.404	1.00
31	8:56	1.00	0.970	1.00	120.00	120.00	0.212	0.212	1.00
32	9:33	1.00	1.036	1.00	120.00	120.00	0.469	0.469	1.00
33	9:49	1.00	1.066	1.00	120.00	120.00	0.872	0.872	1.00
34	10:00	1.00	1.086	1.00	120.00	120.00	0.980	0.980	1.00
35	9:57	1.00	1.081	1.00	120.00	120.00	0.306	0.306	1.00
36	10:27	1.00	1.135	1.00	120.00	120.00	0.367	0.367	1.00
37	11:24	1.00	0.943	1.00	120.00	120.00	0.166	0.166	1.00
38	11:30	1.00	0.951	1.00	120.00	120.00	0.330	0.330	1.00
39	11:19	1.00	0.937	1.00	120.00	120.00	0.089	0.089	1.00
40	11:53	1.00	0.983	1.00	120.00	120.00	0.590	0.590	1.00
41	12:11	1.00	1.008	1.00	120.00	120.00	0.291	0.291	1.00
42	11:48	1.00	0.976	1.00	120.00	120.00	0.082	0.082	1.00
43	12:19	1.00	1.019	1.00	120.00	120.00	0.159	0.159	1.00
44	13:45	1.00	1.137	1.00	120.00	120.00	0.079	0.079	1.00
45	14:05	1.00	1.165	1.00	120.00	120.00	0.279	0.279	1.00
46	14:08	1.00	1.168	1.00	120.00	120.00	0.127	0.127	1.00
47	15:52	1.00	1.313	1.00	120.00	120.00	0.295	0.295	1.00
48	15:34	1.00	0.902	1.00	120.00	120.00	0.064	0.064	1.00
49	15:44	1.00	0.912	1.00	120.00	120.00	0.087	0.087	1.00
50	15:42	1.00	0.910	1.00	120.00	120.00	0.412	0.412	1.00

Data: ST16980831E.T1

08/31/98 15:02:00

Sample: 120UG/ML AP9 062598G

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No Name

51	3,3'-DIMETHYLBENZIDINE	212 S5# 35	
52	KEPONE	272 S5# 37	
53	2-ACETYLAMINOFLUORENE	181 S5# 45	53-96-3
54	3-METHYLCHOLANTHRENE	268 S5# 85	56-49-5
55	7,12-DIMETHYLBENZANTHRACENE	256 S6# 20	75-97-6
56	HEXACHLOROPHENE	196 S6# 30	70-30-4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	212	1473	16:23	5	0.950	A BBQ	71459.	120.000 UG/ML	1.96
52	272	1510	16:48	5	0.974	qedt (1)	11032.	120.000 UG/ML	1.96
53	181	1518	16:53	5	0.979	A BB	84234.	120.000 UG/ML	1.96
54	268	1833	20:23	5	1.182	A BB	101188.	120.000 UG/ML	1.96
55	256	1731	19:15	6	0.971	A BV	92986.	120.000 UG/ML	1.96
56	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:22	1.00	0.949	1.00	120.00	120.00	0.364	0.364	1.00
52	16:13	1.04	0.940	1.04	120.00	120.00	0.056	0.056	1.00
53	16:52	1.00	0.977	1.00	120.00	120.00	0.429	0.429	1.00
54	20:23	1.00	1.181	1.00	120.00	120.00	0.515	0.515	1.00
55	19:15	1.00	0.971	1.00	120.00	120.00	0.608	0.608	1.00
56	21:11		0.992						

MANUAL EDIT CODES
 1. PEAK NOT FOUND
 2. POOR CHROMATOGRAPHY
 3. WRONG ISOMER
 ALL MANUAL EDITS MUST BE
 INITIALED, DATED, AND CO-SIGNED

SCANS 480 TO 800

DATA: ST16980831E #1
CALL: ST16980831E #3

PTC+MASS CHROMATOGRAM

08/31/98 15:02:00 062598G

08/31/98 15:02:00 062598G
COMPL F: 120UG/ML AP3

SAMPLE: 1200-112-11-1
CONDS.: INST. ID: F16

RANGE: G 1, 2158 LAI 518

QIAN: A 6, 2.0 J 0 BASE: U 20, 3

9664.

0-4-7

725

55

534

179

577 591

3301

682

734

648

—

540

22-

214

770



—

1

869

284

2

95

2

750

008 SCAN

1580

SCANS 600 TO 700

DATA: ST16980831E #1
CALI: ST16980831E #3

RIC+MASS CHROMATOGRAM

08/31/98 15:02:00

SAMPLE: 120UG/ML AP9 062598G

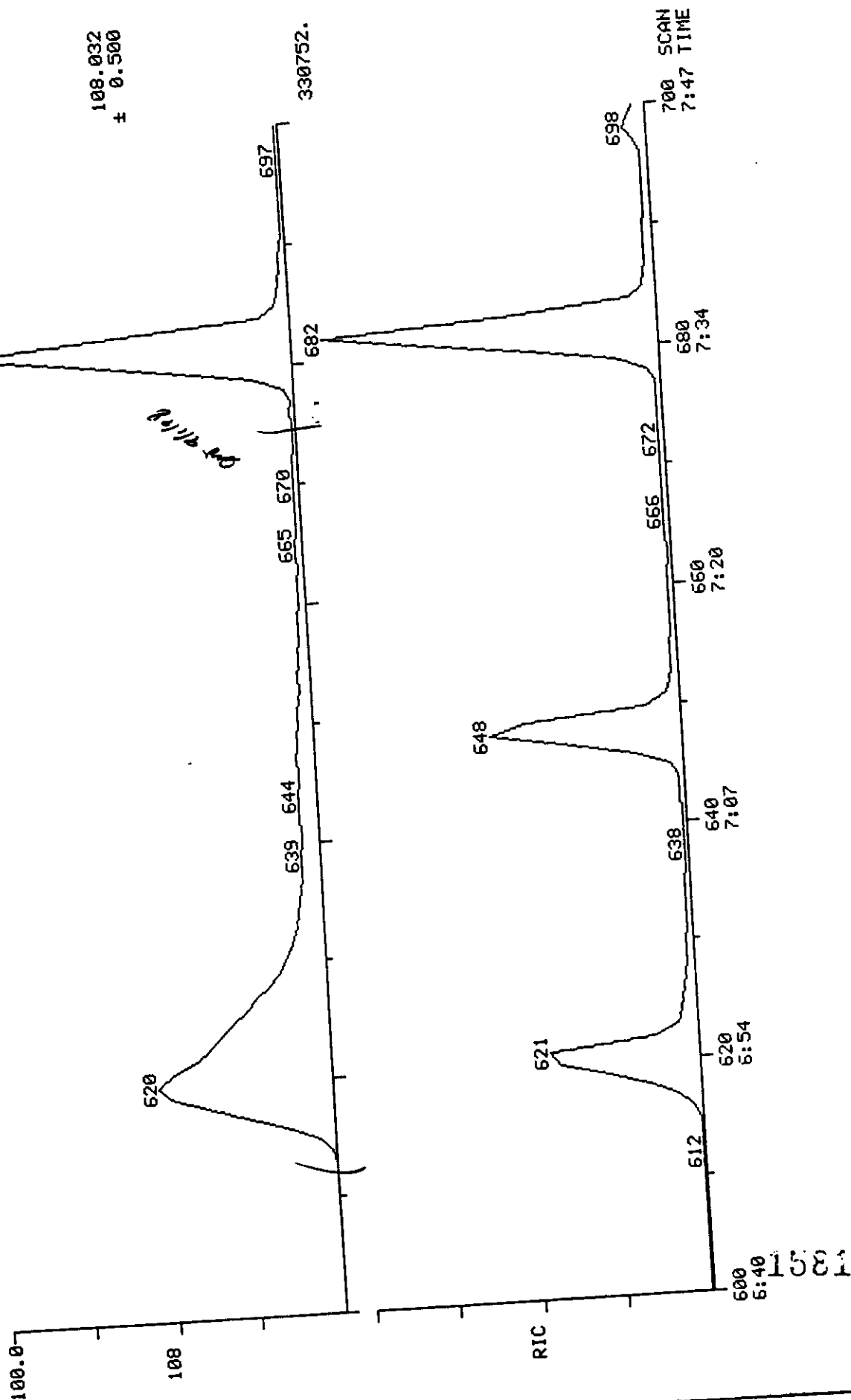
CONDS.: INST. ID: F16

RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

8024.

108.032
± 0.500

330752.

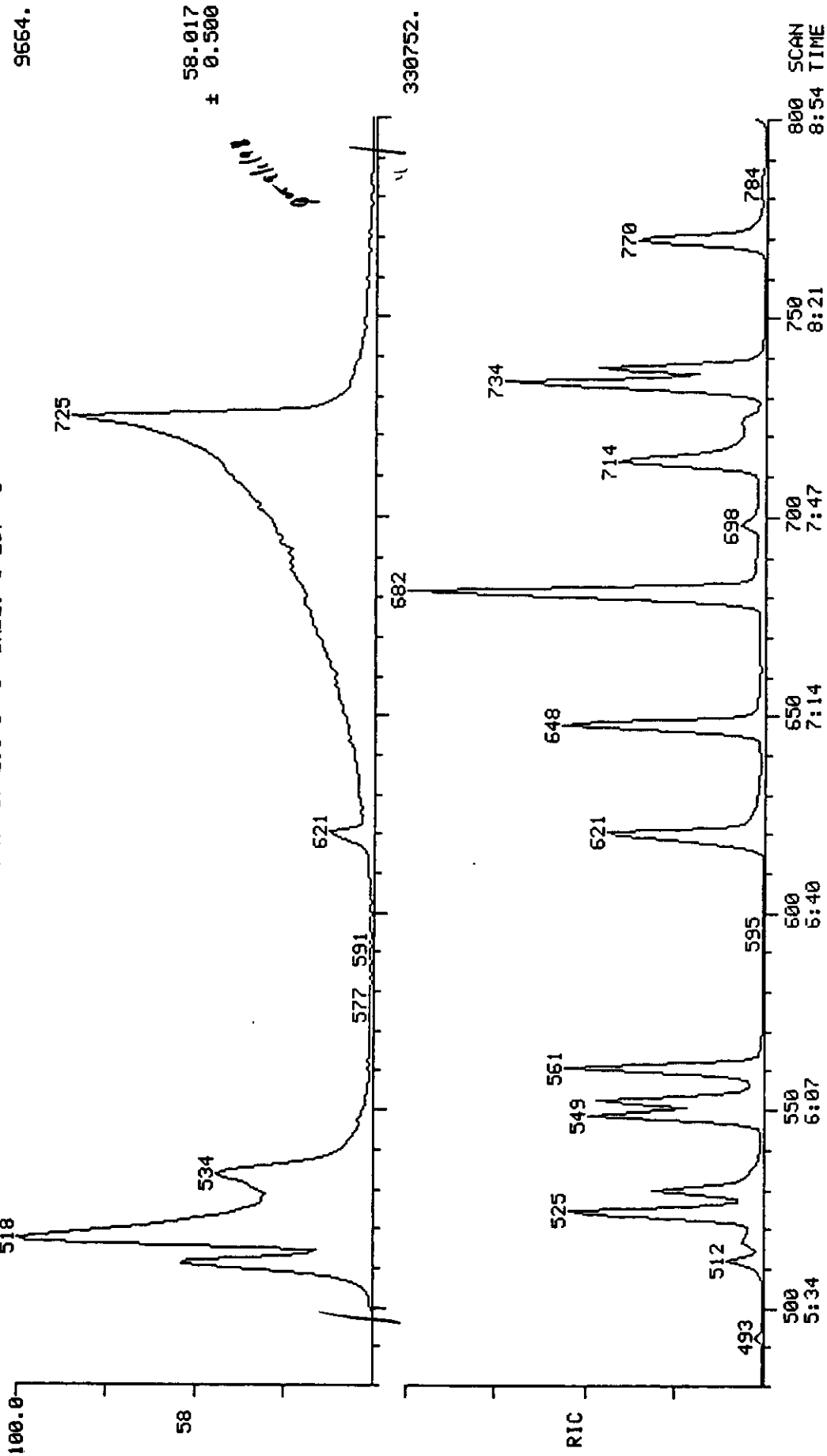


RIC+MASS CHROMATOGRAM

08/31/98 15:02:00
 SAMPLE: 120UG/ML AP9 062598G
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0. 2.0 QUAN: A 6. 2.0 J 0 BASE: U 20. 3

DATA: ST16980831E #1
 CALI: ST16980831E #3

SCANS 480 TO 800



1580

SCANS 600 TO 700

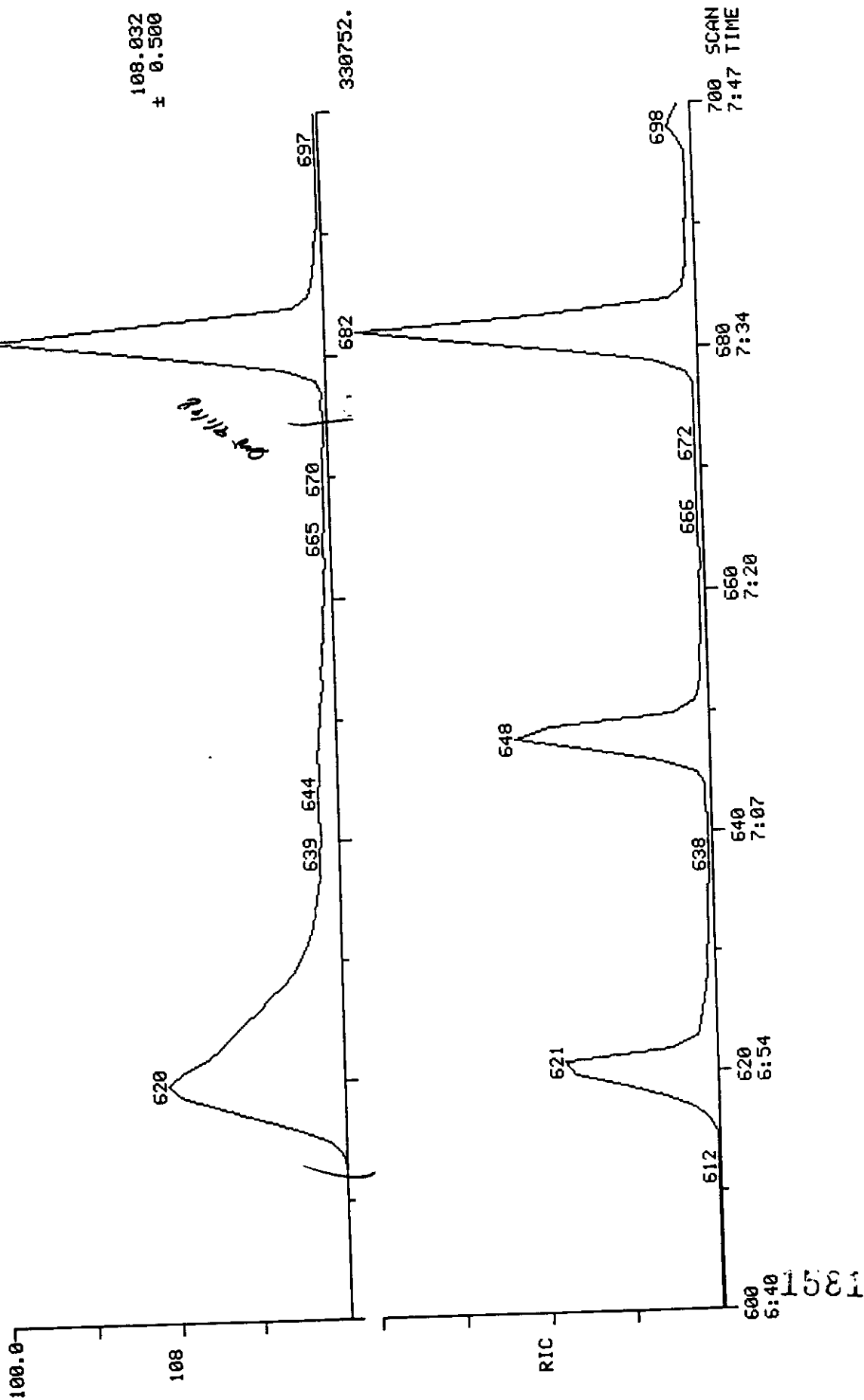
DATA: ST16980831E #1
CALI: ST16980831E #3

RIC+MASS CHROMATOGRAM

08/31/98 15:02:00
SAMPLE: 120UG/ML AP9 062598G

CONDS.: INST. ID: F16
RANGE: G 1,2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

8024.



RIC+MASS CHROMATOGRAM

08/31/98 15:02:00

SAMPLE: 120UG/ML AP9 062598G

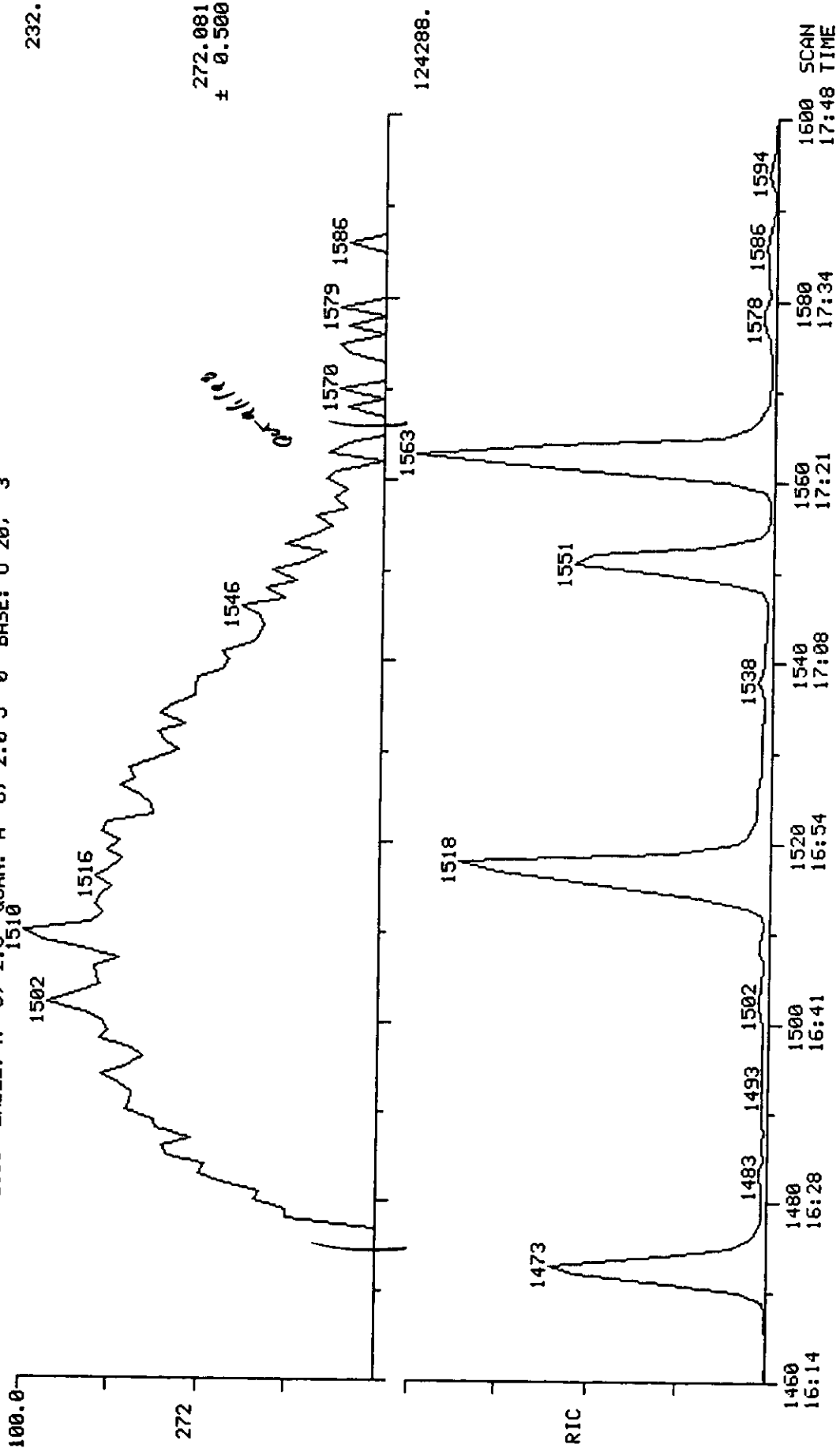
COND.: INST. ID: F16

RANGE: G 1.2158 LABEL: N 0, 2.0, QUAN: A 6, 2.0 J 0 BASE: U 20, 3

DATA: ST16980831E #1

CALI: ST16980831E #3

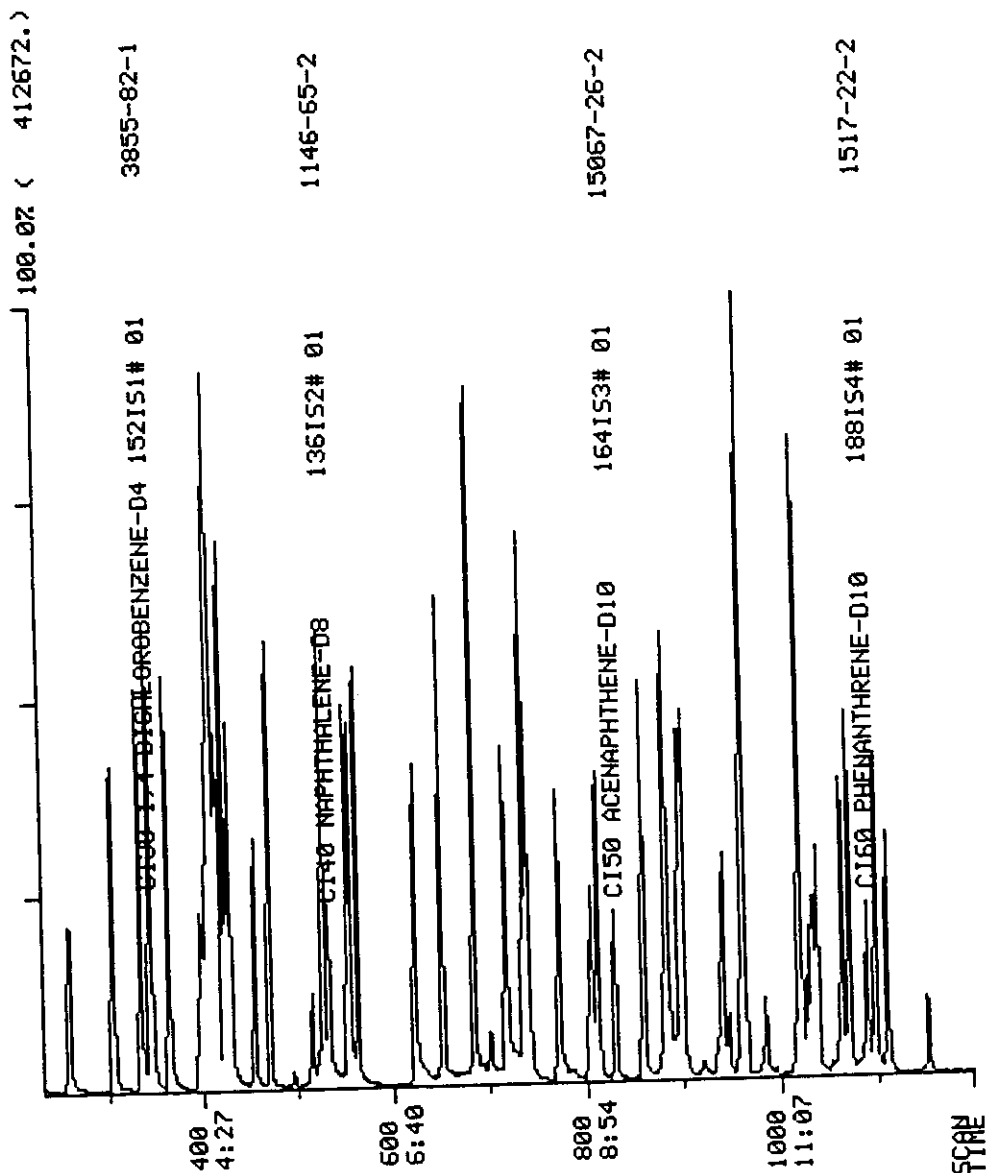
SCANS 1460 TO 1600



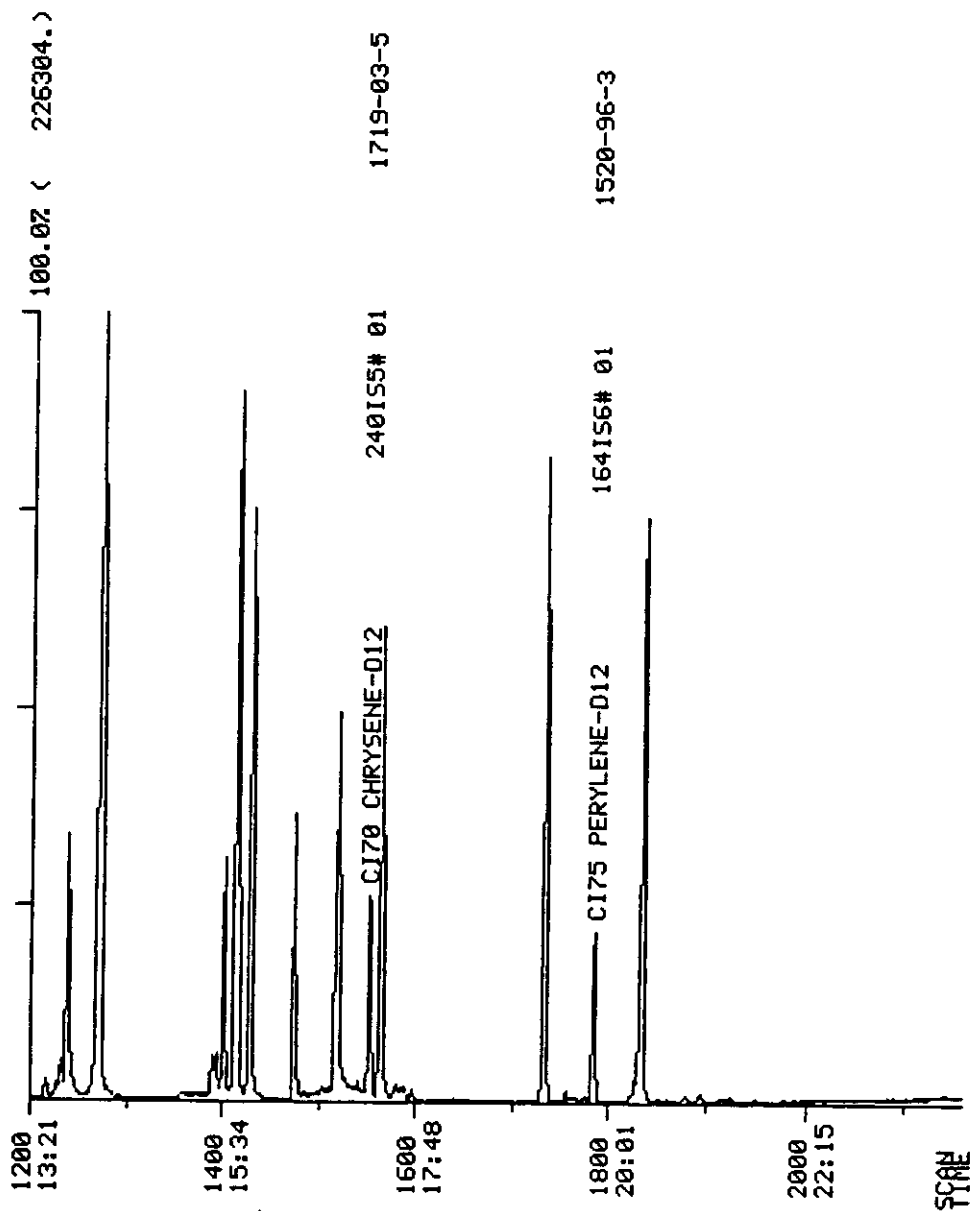
1582

DATA FROM FILE: ST16980831F SCANS 230 TO 1200 ACQUIRED: 08/31/98 15:31:00
CALI: ST16980831F #3

SAMPLE: 160UG/ML AP9 062598H
CONDS.: INST. ID: F16



DATA FROM FILE: ST16980831F SCANS 1200 TO 2158 ACQUIRED: 08/31/98 15:31:00
SAMPLE: 160UG/ML AP9 062598H CALI: ST16980831F #3
CONDS.: INST. ID: F16



Data: ST16980831F.T1

08/31/98 15:31:00

Sample: 160UG/ML AP9 062598H

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	1521S1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	1361S2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	1641S3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	1881S4# 01	1517-22-2
5	C170 CHRYSENE-D12	2401S5# 01	1719-03-5
6	C175 PERYLENE-D12	1641S6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	2-PICOLINE	93 S1# 30	109-06-8
9	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
10	METHYLMETHANESULFONATE	80 S1# 60	
11	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
12	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
13	PENTACHLOROETHANE	117 S1# 95	76-01-7
14	C361 ACETOPHENONE	105 S1#170	
15	N-NITROSOPYRROLIDINE	100 S1#175	930-55-2
16	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
17	3-METHYL PHENOL	108 S1#182	
18	O-TOLUIDINE	106 S1#195	95-53-4
19	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
20	AA-DIMETHYLPHENETHYLAMINE	58 S2# 50	122-09-8
21	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
22	HEXACHLOROPROPENE	213 S2# 90	
23	P-PHENYLENE DIAMINE	108 S2#115	106-50-3
24	N-NITROSODI-N-BUTYLAMINE	84 S2#120	924-16-3
25	SAFROLE	152 S2#140	94-59-7
26	1,2,4,5-TETRACHLOROBENZENE	214 S3# 10	95-94-3
27	ISOSAFROLE (#1)	162 S3# 15	120-58-1
28	ISOSAFROLE (#2)	104 S3# 35	120-58-1
29	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
30	1,4-NAPHTHOQUINONE	158 S3# 50	130-15-4
31	1,3-DINITROBENZENE	168 S3# 60	99-65-0
32	PENTACHLOROBENZENE	250 S3#100	708-93-5
33	1-NAPHTHYLAMINE	143 S3#110	134-32-7
34	2-NAPHTHYLAMINE	143 S3#115	91-59-8
35	2,3,4,6-TETRACHLOROPHENOL	232 S3#120	58-90-2
36	5-NITRO-O-TOLUIDINE	152 S3#145	99-52-5
37	SYM-TRINITROBENZENE	75 S4# 25	
38	PHENACETIN	108 S4#35	62-44-2
39	DIALATE	234 S4# 37	
40	4-AMINOBIIPHENYL	169 S4# 45	92-67-1
41	PRONAMIDE	173 S4# 55	23950-58-5
42	PENTACHLORONITROBENZENE	237 S4# 60	82-68-8
43	2SEC BUTYL-4,6-DINITROPHENOL	211 S4# 75	88-85-7
44	4-NITROQUINOLINE-1-OXIDE	190 S4#100	
45	METHAPYRILENE	58 S4#105	91-80-5
46	ISODRIN		
47	CHLOROBENZILATE	139 S4#120	

No	Name		
48	ARAMITE (#1)	185 S5# 20	140-57-8
49	ARAMITE (#2)	185 S5# 25	140-57-8
50	P-DIMETHYLAMINOAZOBENZENE	120 S5# 30	60-11-7

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	341	3:48	1	1.000	A BB	28546.	40.000 UG/ML	0.50
2	136	530	5:54	2	1.000	A BB	103260.	40.000 UG/ML	0.50
3	164	829	9:13	3	1.000	A BB	58634.	40.000 UG/ML	0.50
4	188	1088	12:06	4	1.000	A BV	95521.	40.000 UG/ML	0.50
5	240	1551	17:15	5	1.000	A BB	56500.	40.000 UG/ML	0.50
6	264	1783	19:50	6	1.000	A BV	44220.	40.000 UG/ML	0.50
7	79	103	1:09	1	0.302	A BB	179951.	160.000 UG/ML	1.98
8	93	145	1:37	1	0.425	A BB	176388.	160.000 UG/ML	1.98
9	42	157	1:45	1	0.460	A BB	99310.	160.000 UG/ML	1.98
10	80	183	2:02	1	0.537	A BB	68989.	160.000 UG/ML	1.98
11	102	219	2:26	1	0.642	A BB	63322.	160.000 UG/ML	1.98
12	79	256	2:51	1	0.751	A BB	142082.	160.000 UG/ML	1.98
13	117	303	3:22	1	0.889	A BB	67568.	160.000 UG/ML	1.98
14	105	405	4:30	1	1.188	A BB	217271.	160.000 UG/ML	1.98
15	100	410	4:34	1	1.202	A BB	65650.	160.000 UG/ML	1.98
16	56	414	4:36	1	1.214	A BV	93134.	160.000 UG/ML	1.98
17	108	422	4:42	1	1.238	A BB	273406.	160.000 UG/ML	1.98
18	106	410	4:34	1	1.202	A BB	222560.	160.000 UG/ML	1.98
19	42	454	5:03	2	0.857	A BB	135876.	160.000 UG/ML	1.98
20	58	742	8:15	2	1.400	qedt	489048.	160.000 UG/ML	1.98
21	162	553	6:09	2	1.043	A BB	117693.	160.000 UG/ML	1.98
22	213	549	6:06	2	1.036	A BB	81868.	160.000 UG/ML	1.98
23	108	621	6:54	2	1.172	qedt	49954.	160.000 UG/ML	1.98
24	84	621	6:54	2	1.172	A BB	92687.	160.000 UG/ML	1.98
25	162	649	7:13	2	1.225	A BB	103119.	160.000 UG/ML	1.98
26	214	683	7:36	3	0.824	A BB	98348.	160.000 UG/ML	1.98
27	162	698	7:46	3	0.842	A BB	10361.	160.000 UG/ML	1.98
28	104	738	8:13	3	0.890	A BB	44958.	160.000 UG/ML	1.98
29	162	734	8:10	3	0.885	A BB	348940.	160.000 UG/ML	1.98
30	158	771	8:35	3	0.930	A BB	91288.	160.000 UG/ML	1.98
31	168	805	8:57	3	0.971	A BB	47740.	160.000 UG/ML	1.98
32	250	859	9:33	3	1.036	A BB	110577.	160.000 UG/ML	1.98
33	143	884	9:50	3	1.066	A BB	180448.	160.000 UG/ML	1.98
34	143	901	10:01	3	1.087	A BB	206685.	160.000 UG/ML	1.98
35	232	897	9:59	3	1.082	A BB	68020.	160.000 UG/ML	1.98
36	152	942	10:29	3	1.136	A BB	74228.	160.000 UG/ML	1.98
37	75	1026	11:25	4	0.943	A VB	60745.	160.000 UG/ML	1.98
38	108	1038	11:33	4	0.954	A BB	118791.	160.000 UG/ML	1.98
39	234	1019	11:20	4	0.937	A BV	36960.	160.000 UG/ML	1.98
40	169	1070	11:54	4	0.983	A BB	208505.	160.000 UG/ML	1.98
41	173	1097	12:12	4	1.008	A BB	105932.	160.000 UG/ML	1.98
42	237	1062	11:49	4	0.976	A BB	30912.	160.000 UG/ML	1.98
43	211	1109	12:20	4	1.019	A VB	57279.	160.000 UG/ML	1.98
44	190	1237	13:46	4	1.137	A BB	28601.	160.000 UG/ML	1.98
45	58	1267	14:06	4	1.165	A BB	106019.	160.000 UG/ML	1.98
46	193	1271	14:08	4	1.168	A BV	47357.	160.000 UG/ML	1.98
47	139	1428	15:53	4	1.312	A BB	107482.	160.000 UG/ML	1.98
48	185	1400	15:34	5	0.903	A BB	13837.	160.000 UG/ML	1.98
49	185	1414	15:44	5	0.912	A BV	19178.	160.000 UG/ML	1.98
50	120	1413	15:43	5	0.911	A BB	94845.	160.000 UG/ML	1.98

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.303	1.00	160.00	160.00	1.576	1.576	1.00
8	1:37	1.00	0.426	1.00	160.00	160.00	1.545	1.545	1.00
9	1:45	1.00	0.462	1.00	160.00	160.00	0.870	0.870	1.00
10	2:01	1.01	0.535	1.00	160.00	160.00	0.604	0.604	1.00
11	2:25	1.00	0.641	1.00	160.00	160.00	0.555	0.555	1.00
12	2:50	1.00	0.750	1.00	160.00	160.00	1.244	1.244	1.00
13	3:22	1.00	0.888	1.00	160.00	160.00	0.592	0.592	1.00
14	4:30	1.00	1.188	1.00	160.00	160.00	1.903	1.903	1.00
15	4:30	1.01	1.191	1.01	160.00	160.00	0.575	0.575	1.00
16	4:34	1.01	1.209	1.00	160.00	160.00	0.816	0.816	1.00
17	4:40	1.01	1.232	1.00	160.00	160.00	2.394	2.394	1.00
18	4:32	1.00	1.200	1.00	160.00	160.00	1.949	1.949	1.00
19	5:01	1.01	0.851	1.01	160.00	160.00	0.329	0.329	1.00
20	7:54	1.05	1.340	1.05	160.00	160.00	1.184	1.184	1.00
21	6:08	1.00	1.042	1.00	160.00	160.00	0.285	0.285	1.00
22	6:06	1.00	1.036	1.00	160.00	160.00	0.198	0.198	1.00
23	7:25	0.93	1.258	0.93	160.00	160.00	0.121	0.121	1.00
24	6:54	1.00	1.170	1.00	160.00	160.00	0.224	0.224	1.00
25	7:12	1.00	1.223	1.00	160.00	160.00	0.250	0.250	1.00
26	7:34	1.00	0.822	1.00	160.00	160.00	0.419	0.419	1.00
27	7:46	1.00	0.843	1.00	160.00	160.00	0.044	0.044	1.00
28	8:12	1.00	0.890	1.00	160.00	160.00	0.192	0.192	1.00
29	8:09	1.00	0.885	1.00	160.00	160.00	1.488	1.488	1.00
30	8:34	1.00	0.930	1.00	160.00	160.00	0.389	0.389	1.00
31	8:56	1.00	0.970	1.00	160.00	160.00	0.204	0.204	1.00
32	9:33	1.00	1.036	1.00	160.00	160.00	0.471	0.471	1.00
33	9:49	1.00	1.066	1.00	160.00	160.00	0.769	0.769	1.00
34	10:00	1.00	1.086	1.00	160.00	160.00	0.881	0.881	1.00
35	9:57	1.00	1.081	1.00	160.00	160.00	0.290	0.290	1.00
36	10:27	1.00	1.135	1.00	160.00	160.00	0.316	0.316	1.00
37	11:24	1.00	0.943	1.00	160.00	160.00	0.159	0.159	1.00
38	11:30	1.00	0.951	1.00	160.00	160.00	0.311	0.311	1.00
39	11:19	1.00	0.937	1.00	160.00	160.00	0.097	0.097	1.00
40	11:53	1.00	0.983	1.00	160.00	160.00	0.546	0.546	1.00
41	12:11	1.00	1.008	1.00	160.00	160.00	0.277	0.277	1.00
42	11:48	1.00	0.976	1.00	160.00	160.00	0.081	0.081	1.00
43	12:19	1.00	1.019	1.00	160.00	160.00	0.150	0.150	1.00
44	13:45	1.00	1.137	1.00	160.00	160.00	0.075	0.075	1.00
45	14:05	1.00	1.165	1.00	160.00	160.00	0.277	0.277	1.00
46	14:08	1.00	1.168	1.00	160.00	160.00	0.124	0.124	1.00
47	15:52	1.00	1.313	1.00	160.00	160.00	0.281	0.281	1.00
48	15:34	1.00	0.902	1.00	160.00	160.00	0.061	0.061	1.00
49	15:44	1.00	0.912	1.00	160.00	160.00	0.085	0.085	1.00
50	15:42	1.00	0.910	1.00	160.00	160.00	0.420	0.420	1.00

Data: ST16980831F.T1

08/31/98 15:31:00

Sample: 160UG/ML AP9 062598H

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No Name

51	3,3'-DIMETHYLBENZIDINE	212 S5# 35	
52	KEPONE	272 S5# 37	
53	2-ACETYLAMINOFLUORENE	181 S5# 45	53-96-3
54	3-METHYLCHOLANTHRENE	268 S5# 85	56-49-5
55	7,12-DIMETHYLBENZANTHRACENE	256 S6# 20	75-97-6
56	HEXACHLOROPHENE	196 S6# 30	70-30-4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	212	1473	16:23	5	0.950	A BV	78087.	160.000 UG/ML	1.98
52	272	1508	16:46	5	0.972	qedt	12248.	160.000 UG/ML	1.98
53	181	1518	16:53	5	0.979	A BB	99486.	160.000 UG/ML	1.98
54	268	1834	20:24	5	1.182	A BB	116191.	160.000 UG/ML	1.98
55	256	1732	19:16	6	0.971	A BB	107710.	160.000 UG/ML	1.98
56	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:22	1.00	0.949	1.00	160.00	160.00	0.346	0.346	1.00
52	16:13	1.03	0.940	1.03	160.00	160.00	0.054	0.054	1.00
53	16:52	1.00	0.977	1.00	160.00	160.00	0.440	0.440	1.00
54	20:23	1.00	1.181	1.00	160.00	160.00	0.514	0.514	1.00
55	19:15	1.00	0.971	1.00	160.00	160.00	0.609	0.609	1.00
56	21:11		0.992						

MANUAL EDIT CODES

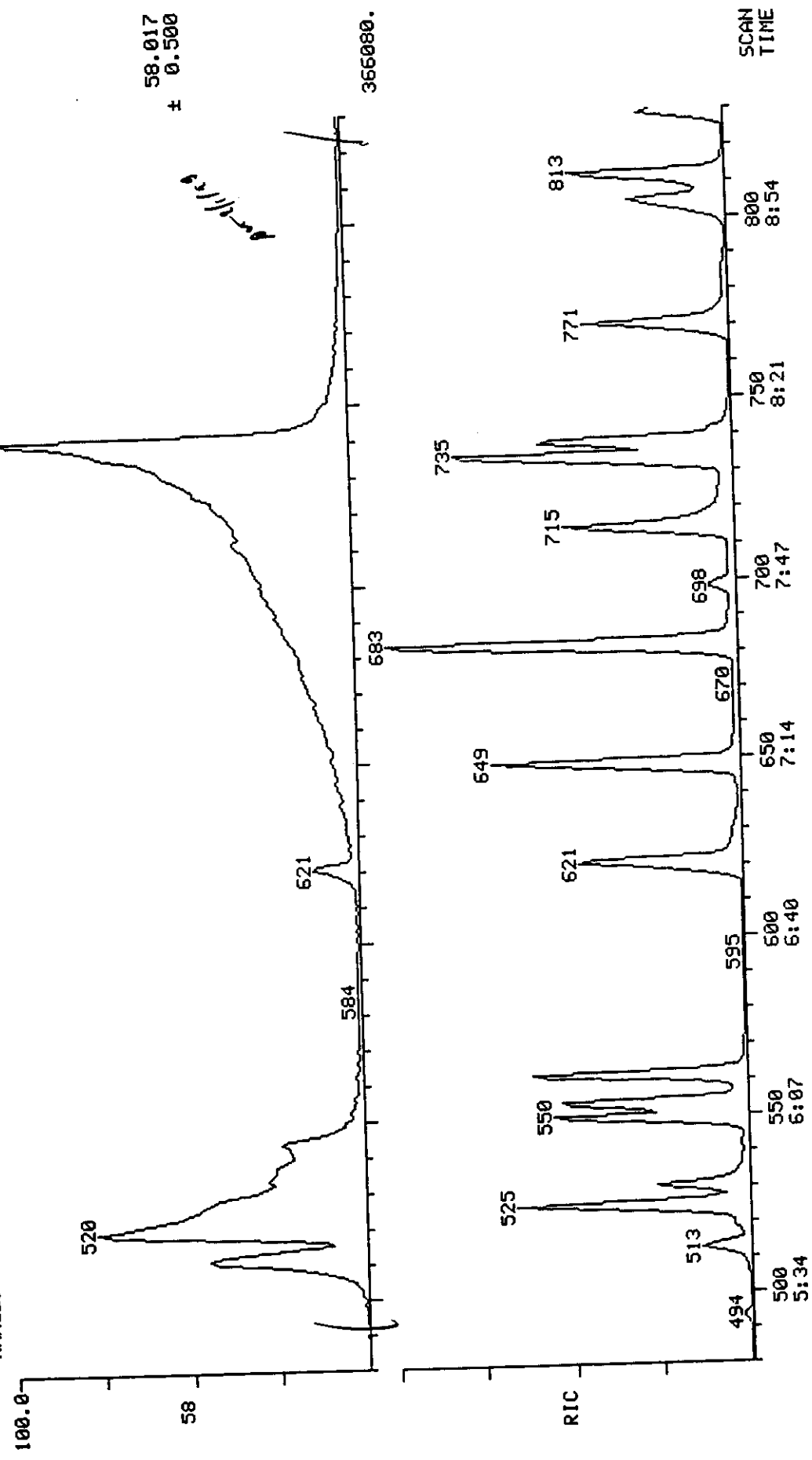
1. PEAK NOT FOUND
2. POOR CHROMATOGRAPHY
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
INITIALED, DATED, AND CODED

RIC-MASS CHROMATOGRAM
 08/31/98 15:31:00
 DATA: ST16980831F #1
 CALI: ST16980831F #3

SAMPLE: 160UG/ML AP9 062598H
 CONDS.: INST. ID: F16
 RANGE: G 1,2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3 742

10544.

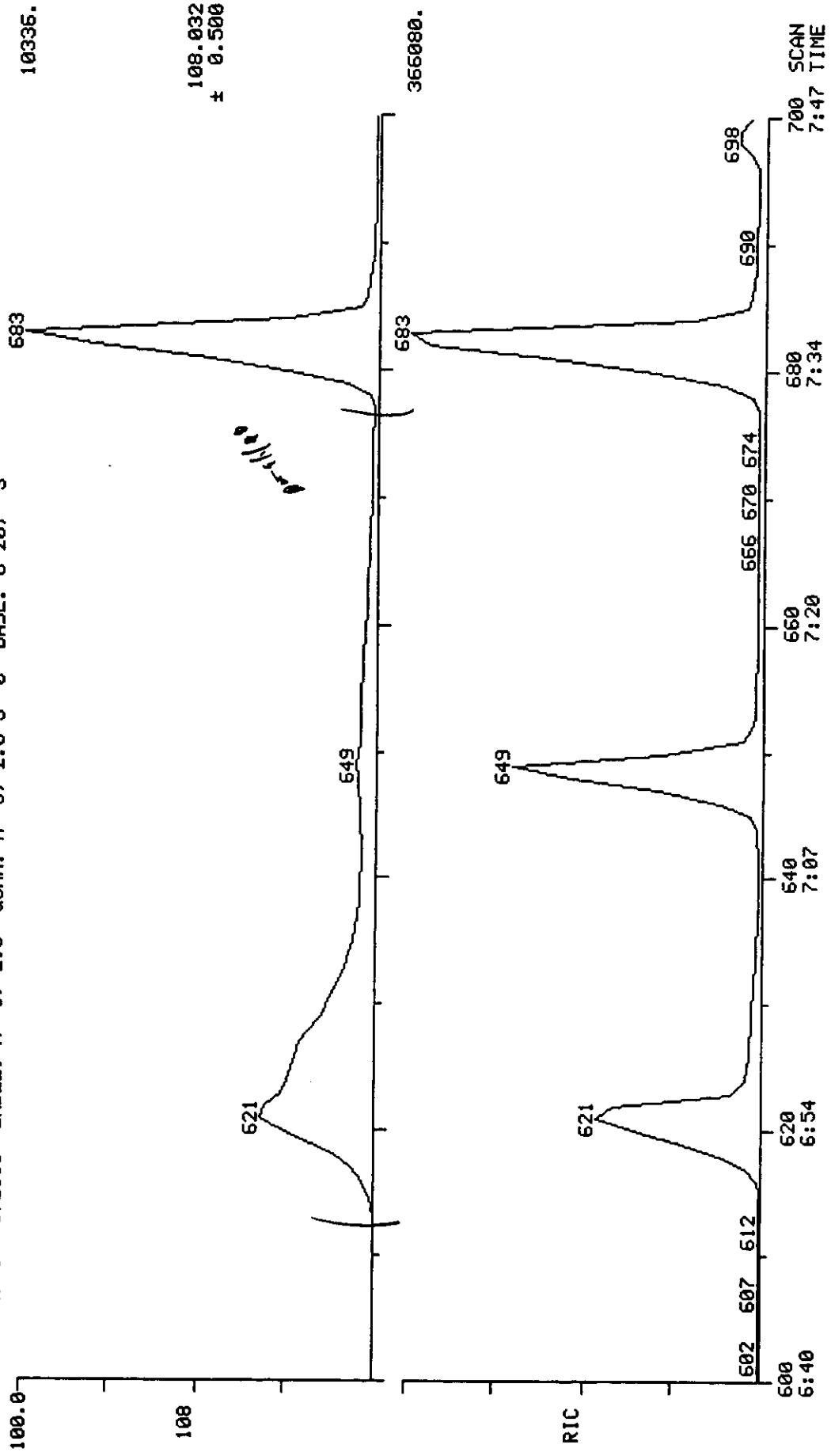


10544

RIC+MASS CHROMATOGRAM
08/31/98 15:31:00
SAMPLE: 160UG/ML AP9 062598H
CONDS.: INST. ID: F16
RANGE: G 1.2158 LABEL: N 0. 2.0 QUAN: A 5. 2.0 J 0 BASE: U 20. 3

DATA: ST16980831F #1
CALI: ST16980831F #3

SCANS 500 TO 700

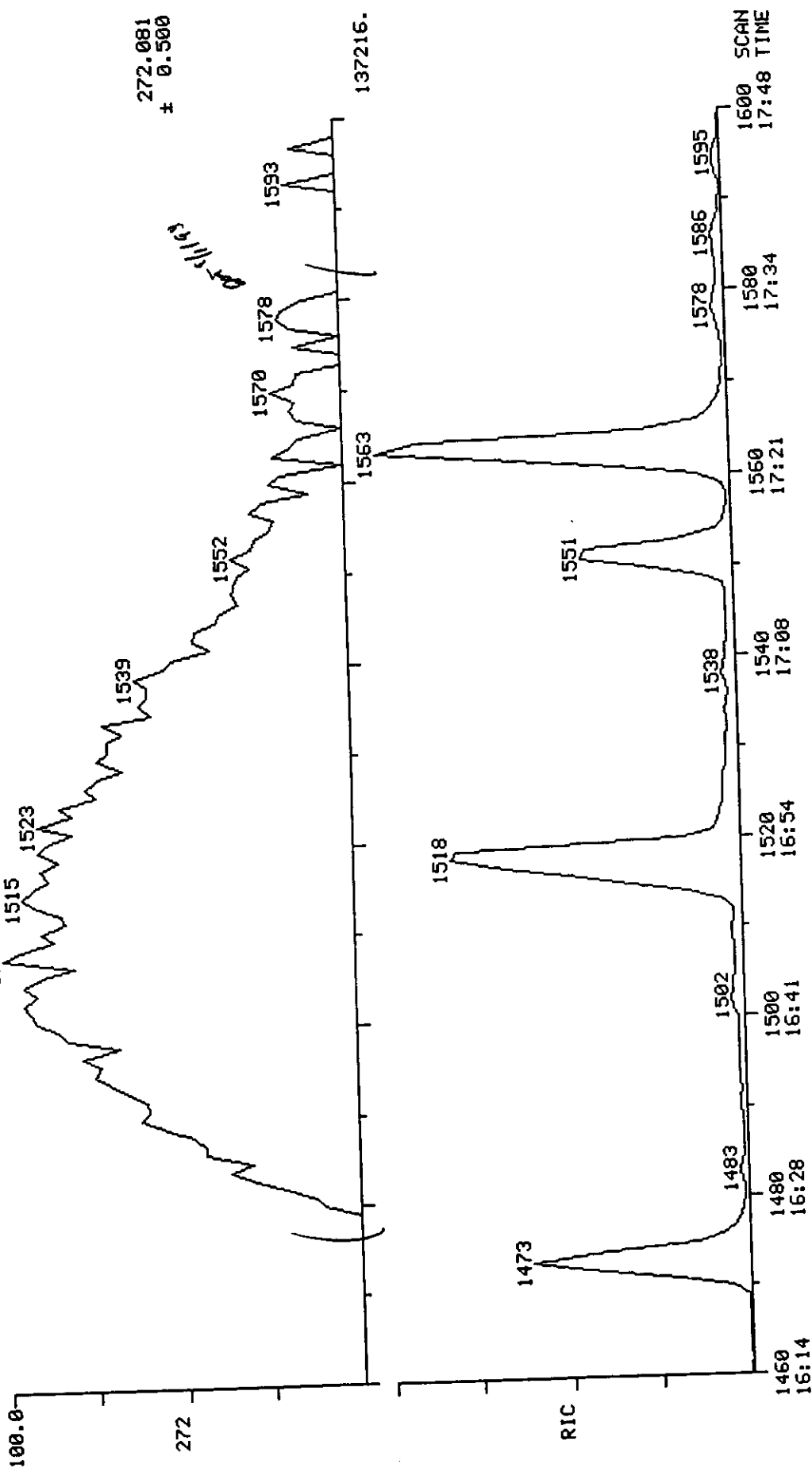


1590

RIC+MASS CHROMATOGRAM
08/31/98 15:31:00
SAMPLE: 160UG/ML AP9 062598H
COND.: INST. ID: F16
RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

DATA: ST16980831F #1
CALI: ST16980831F #3

238.



1501

Continuing Calibration

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

CONTIN. CALIBRATION: 80 UG/ML HSL STD ST16980831 08/31/98 12:31:00
 INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
 INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
 INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
 INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
 INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
 INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

Library Entry Compound	Initial Calibration			Continuing Calibration			
	Response Factor		% RSD	Amount		% Diff	
	Avg	Min	Max	Calc	Exp	Max	
=====							
S1 15 C310 N-NITROSODIMETH	1.019		4.4	69.65	80.00	12.9	50.0
S1 100 C320 ANILINE	1.846		6.2	81.93	80.00	-2.4	50.0
S1 105 C315 PHENOL	1.968		7.8	84.53	80.00	-5.7	20.0
S1 110 C325 BIS(2-CHLOROETH	1.368		6.1	83.20	80.00	-4.0	50.0
S1 115 C330 2-CHLOROPHENOL	1.497		5.5	85.59	80.00	-7.0	50.0
S1 125 C335 1,3-DICHLOROBEN	1.586		4.5	83.03	80.00	-3.8	50.0
S1 130 C340 1,4-DICHLOROBEN	1.618		4.8	83.73	80.00	-4.7	20.0
S1 145 C345 BENZYL ALCOHOL	0.854		9.3	78.77	80.00	1.5	50.0
S1 150 C350 1,2-DICHLOROBEN	1.500		5.0	82.86	80.00	-3.6	50.0
S1 160 C355 2-METHYLPHENOL	1.174		7.4	79.35	80.00	0.8	50.0
S1 165 C360 2,2'-OXYBIS(1-C	2.539		3.9	79.64	80.00	0.4	50.0
S1 185 C365 4-METHYLPHENOL	1.276		9.0	77.91	80.00	2.6	50.0
S1 190 C370 N-NITROSO-DI-N-	0.906	0.050	5.1	79.52	80.00	0.6	50.0
S1 200 C375 HEXACHLOROETHAN	0.708		3.5	81.62	80.00	-2.0	50.0
S2 10 C410 NITROBENZENE	0.445		7.2	85.86	80.00	-7.3	50.0
S2 20 C415 ISOPHORONE	0.742		5.5	79.94	80.00	0.1	50.0
S2 25 C420 2-NITROPHENOL	0.213		7.9	84.24	80.00	-5.3	20.0
S2 30 C425 2,4-DIMETHYLPHE	0.330		16.9	92.67	80.00	-15.8	50.0
S2 45 C430 BENZOIC ACID	0.276		4.7	48.36	80.00	39.5	50.0
S2 35 C435 BIS(2-CHLOROETH	0.511		4.1	81.27	80.00	-1.6	50.0
S2 40 C440 2,4-DICHLOROPHE	0.308		6.6	83.17	80.00	-4.0	20.0
S2 55 C445 1,2,4-TRICHLORO	0.331		5.0	84.22	80.00	-5.3	50.0
S2 60 C450 NAPHTHALENE	1.022		6.6	84.81	80.00	-6.0	50.0
S2 80 C455 4-CHLOROANILINE	0.454		4.5	82.23	80.00	-2.8	50.0
S2 95 C460 HEXACHLOROBUTAD	0.168		5.1	84.88	80.00	-6.1	20.0
S2 130 C465 4-CHLORO-3-METH	0.338		9.0	82.44	80.00	-3.0	20.0
S2 145 C470 2-METHYLNAPHTHA	0.751		10.8	104.45	80.00	-30.6	50.0
S3 20 C510 HEXACHLOROCYCLO	0.372	0.050	10.1	88.84	80.00	-11.0	50.0
S3 25 C515 2,4,6-TRICHLORO	0.404		10.6	84.50	80.00	-5.6	20.0
S3 30 C520 2,4,5-TRICHLORO	0.412		7.1	80.97	80.00	-1.2	50.0
S3 40 C525 2-CHLORONAPHTHA	1.193		6.6	86.65	80.00	-8.3	50.0
S3 45 C530 2-NITROANILINE	0.502		2.9	83.54	80.00	-4.4	50.0
S3 55 C535 DIMETHYLPHTHALA	1.341		6.1	85.06	80.00	-6.3	50.0
S3 65 C540 ACENAPHTHYLENE	1.839		8.2	87.87	80.00	-9.8	50.0
S3 70 C543 2,6-DINITROTOLU	0.324		8.5	90.03	80.00	-12.5	50.0
S3 75 C545 3-NITROANILINE	0.383		1.4	83.67	80.00	-4.6	50.0
S3 80 C550 ACENAPHTHENE	1.158		6.9	86.87	80.00	-8.6	20.0
S3 85 C555 2,4-DINITROPHEN	0.189	0.050	10.3	84.84	80.00	-6.0	50.0

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

CONTIN. CALIBRATION: 80 UG/ML HSL STD ST16980831 08/31/98 12:31:00
 INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
 INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
 INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
 INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
 INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
 INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

Library Entry Compound	Initial Calibration			Continuing Calibration		
	Response Factor		% RSD	Amount		% Diff
	Avg	Min	Max	Calc	Exp	Max
=====						
S3 90 C565 DIBENZOFURAN	1.669		6.2	86.67	80.00	-8.3 50.0
S3 105 C570 2,4-DINITROTOLU	0.397		8.8	95.11	80.00	-18.9 50.0
S3 130 C580 DIETHYLPHTHALAT	1.369		7.7	88.14	80.00	-10.2 50.0
S3 140 C585 4-CHLOROPHENYL-	0.613		5.4	86.06	80.00	-7.6 50.0
S3 135 C590 FLUORENE	1.298		6.8	88.29	80.00	-10.4 50.0
S3 150 C595 4-NITROANALINE	0.307		8.4	83.02	80.00	-3.8 50.0
S4 10 C610 4,6-DINITRO-2-M	0.132		7.6	83.52	80.00	-4.4 50.0
S4 15 C615 N-NITROSODIPHEN	0.551		4.2 30.0	77.22	80.00	3.5 20.0
S4 20 C620 AZOBENZENE	1.171		3.9	78.58	80.00	1.8 50.0
S4 30 C625 4-BROMOPHENYL-P	0.223		3.9	82.03	80.00	-2.5 50.0
S4 40 C630 HEXACHLOROBENZE	0.260		6.7	81.39	80.00	-1.7 50.0
S4 50 C635 PENTACHLOROPHEN	0.155		5.9 30.0	80.24	80.00	-0.3 20.0
S4 65 C640 PHENANTHRENE	1.033		5.2	83.59	80.00	-4.5 50.0
S4 70 C645 ANTHRACENE	0.987		11.0	84.41	80.00	-5.5 50.0
S4 80 C647 CARBAZOLE	0.764		10.3	80.70	80.00	-0.9 50.0
S4 85 C650 DI-N-BUTYLPHTHA	1.247		9.4	85.76	80.00	-7.2 50.0
S4 110 C655 FLUORANTHENE	0.900		13.5 30.0	82.37	80.00	-3.0 20.0
S5 10 C710 BENZIDINE	0.129		23.7	34.62	80.00	56.7* 50.0
S5 15 C715 PYRENE	1.323		6.5	87.30	80.00	-9.1 50.0
S5 40 C720 BUTYLBENZYLPHTH	0.685		7.7	82.69	80.00	-3.4 50.0
S5 55 C725 3,3'-DICHLOROB	0.408		5.7	73.23	80.00	8.5 50.0
S5 50 C730 BENZO(A)ANTHRAC	1.125		5.4	86.19	80.00	-7.7 50.0
S5 60 C740 CHRYSENE	1.014		6.7	82.50	80.00	-3.1 50.0
S5 65 C745 BIS(2-ETHYLHEXY	0.980		9.4	83.00	80.00	-3.8 50.0
S6 10 C760 DI-N-OCTYL PHTH	1.925		7.4 30.0	85.61	80.00	-7.0 20.0
S6 15 C765 BENZO(B)FLUORAN	1.444		5.0	78.88	80.00	1.4 50.0
S6 25 C770 BENZO(K)FLUORAN	1.159		9.8	90.18	80.00	-12.7 50.0
S6 35 C775 BENZO(A)PYRENE	1.182		5.3 30.0	83.29	80.00	-4.1 20.0
S6 55 C780 INDENO(1,2,3-CD	1.279		6.6	85.08	80.00	-6.3 50.0
S6 60 C785 DIBENZ(A,H)ANTH	1.267		8.1	84.76	80.00	-5.9 50.0
S6 65 C790 BENZO(G,H,I)PER	1.331		8.2	85.64	80.00	-7.1 50.0
S1 6 CS75 1,2-DICHLOROBENZ	0.920		6.5	81.28	80.00	-1.6 50.0
S2 2 CS20 NITROBENZENE-D5	0.470		5.2	82.78	80.00	-3.5 50.0
S3 3 CS25 2-FLUOROBIPHENY	1.234		6.2	84.73	80.00	-5.9 50.0
S5 2 CS30 TERPHENYL-D14	0.995		5.3	86.97	80.00	-8.7 50.0
S1 3 CS45 PHENOL-D5	2.026		2.0	79.53	80.00	0.6 50.0
S1 2 CS50 2-FLUOROPHENOL	1.368		4.4	76.35	80.00	4.6 50.0
S1 5 CS70 2-CHLOROPHENOL	1.482		4.1	80.04	80.00	-0.1 50.0
S3 2 CS55 2,4,6-TRIBROMOP	0.236		6.9	81.97	80.00	-2.5 50.0

2.6% of the compounds exceed the %RSD value
 of 15.0. 2 of 78 compounds are out.

0 CCC cmpds out
 1 of nonCCC exceed 50 %

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

CONTIN. CALIBRATION: 80 UG/ML HSL STD ST16980831 08/31/98 12:31:00
 INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
 INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
 INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
 INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
 INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
 INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

ST16980831 ST16980827A ST16980827B ST16980827C ST16980827 ST16980827D
 ST16980827E

Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S1 15	80,	0.887	10,	0.952	20,	1.010	50,	1.016	80,	1.087
S1 15	160,	1.042							120,	1.008
S1 100	80,	1.891	10,	1.947	20,	1.988	50,	1.814	80,	1.876
S1 100	160,	1.674							120,	1.778
S1 105	80,	2.079	10,	1.699	20,	2.037	50,	2.035	80,	2.148
S1 105	160,	1.982							120,	1.907
S1 110	80,	1.422	10,	1.336	20,	1.465	50,	1.438	80,	1.414
S1 110	160,	1.261							120,	1.291
S1 115	80,	1.601	10,	1.386	20,	1.569	50,	1.522	80,	1.603
S1 115	160,	1.451							120,	1.450
S1 125	80,	1.646	10,	1.515	20,	1.668	50,	1.618	80,	1.659
S1 125	160,	1.510							120,	1.546
S1 130	80,	1.693	10,	1.580	20,	1.695	50,	1.666	80,	1.697
S1 130	160,	1.518							120,	1.549
S1 145	80,	0.841	10,	0.702	20,	0.851	50,	0.872	80,	0.913
S1 145	160,	0.922							120,	0.866
S1 150	80,	1.553	10,	1.475	20,	1.606	50,	1.482	80,	1.573
S1 150	160,	1.409							120,	1.454
S1 160	80,	1.165	10,	0.998	20,	1.206	50,	1.221	80,	1.209
S1 160	160,	1.213							120,	1.199
S1 165	80,	2.528	10,	2.393	20,	2.676	50,	2.597	80,	2.582
S1 165	160,	2.486							120,	2.502
S1 185	80,	1.243	10,	1.049	20,	1.298	50,	1.355	80,	1.287
S1 185	160,	1.351							120,	1.316
S1 190	80,	0.900	10,	0.819	20,	0.934	50,	0.938	80,	0.940
S1 190	160,	0.890							120,	0.913
S1 200	80,	0.723	10,	0.665	20,	0.740	50,	0.713	80,	0.720
S1 200	160,	0.706							120,	0.706
S2 10	80,	0.478	10,	0.423	20,	0.477	50,	0.455	80,	0.486
S2 10	160,	0.410							120,	0.419
S2 20	80,	0.741	10,	0.685	20,	0.778	50,	0.774	80,	0.778
S2 20	160,	0.708							120,	0.726

S2	25	80, 0.225	10, 0.182	20, 0.212	50, 0.218	80, 0.232	120, 0.219
S2	25	160, 0.217					
S2	30	80, 0.382	10, 0.234	20, 0.309	50, 0.334	80, 0.400	120, 0.349
S2	30	160, 0.353					
S2	45	80, 0.167		20, 0.257	50, 0.279	80, 0.270	120, 0.280
S2	45	160, 0.292					
S2	35	80, 0.519	10, 0.481	20, 0.529	50, 0.517	80, 0.538	120, 0.502
S2	35	160, 0.498					
S2	40	80, 0.320	10, 0.270	20, 0.313	50, 0.314	80, 0.332	120, 0.311
S2	40	160, 0.306					
S2	55	80, 0.348	10, 0.319	20, 0.350	50, 0.334	80, 0.350	120, 0.322
S2	55	160, 0.310					
S2	60	80, 1.084	10, 1.008	20, 1.090	50, 1.038	80, 1.102	120, 0.960
S2	60	160, 0.935					
S2	80	80, 0.466	10, 0.419	20, 0.466	50, 0.454	80, 0.480	120, 0.449
S2	80	160, 0.455					
S2	95	80, 0.178	10, 0.160	20, 0.178	50, 0.170	80, 0.177	120, 0.167
S2	95	160, 0.157					
S2	130	80, 0.348	10, 0.279	20, 0.337	50, 0.353	80, 0.365	120, 0.347
S2	130	160, 0.346					
S2	145	80, 0.981	10, 0.773	20, 0.840	50, 0.827	80, 0.757	120, 0.671
S2	145	160, 0.639					
S3	20	80, 0.413	10, 0.329	20, 0.387	50, 0.376	80, 0.428	120, 0.379
S3	20	160, 0.330					
S3	25	80, 0.426	10, 0.327	20, 0.389	50, 0.405	80, 0.435	120, 0.417
S3	25	160, 0.448					
S3	30	80, 0.417	10, 0.397	20, 0.437	50, 0.429	80, 0.443	120, 0.401
S3	30	160, 0.366					
S3	40	80, 1.292	10, 1.172	20, 1.275	50, 1.208	80, 1.283	120, 1.128
S3	40	160, 1.089					
S3	45	80, 0.524		20, 0.491	50, 0.510	80, 0.523	120, 0.487
S3	45	160, 0.497					
S3	55	80, 1.426	10, 1.257	20, 1.423	50, 1.392	80, 1.426	120, 1.297
S3	55	160, 1.251					
S3	65	80, 2.019	10, 1.751	20, 1.959	50, 1.896	80, 2.047	120, 1.707
S3	65	160, 1.671					
S3	70	80, 0.364	10, 0.274	20, 0.339	50, 0.341	80, 0.351	120, 0.321
S3	70	160, 0.317					
S3	75	80, 0.400		20, 0.382	50, 0.392	80, 0.382	120, 0.379
S3	75	160, 0.379					
S3	80	80, 1.258	10, 1.140	20, 1.227	50, 1.182	80, 1.261	120, 1.075

S3 80 160, 1.066

S3 85 80, 0.201

S3 85 160, 0.196

S3 95 80, 0.174

S3 95 160, 0.169

20, 0.156 50, 0.190 80, 0.202 120, 0.203

20, 0.164 50, 0.178 80, 0.184 120, 0.168

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

CONTIN. CALIBRATION: 80 UG/ML HSL STD ST16980831 08/31/98 12:31:00
INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

ST16980831 ST16980827A ST16980827B ST16980827C ST16980827 ST16980827D
ST16980827E

Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S3 90	80,	1.808	10,	1.617	20,	1.782	50,	1.736	80,	1.762	120,	1.556
S3 90	160,	1.561										
S3 105	80,	0.472	10,	0.339	20,	0.412	50,	0.420	80,	0.437	120,	0.396
S3 105	160,	0.378										
S3 130	80,	1.508	10,	1.300	20,	1.462	50,	1.452	80,	1.462	120,	1.328
S3 130	160,	1.209										
S3 140	80,	0.659	10,	0.597	20,	0.647	50,	0.631	80,	0.646	120,	0.579
S3 140	160,	0.575										
S3 135	80,	1.432	10,	1.251	20,	1.398	50,	1.340	80,	1.386	120,	1.224
S3 135	160,	1.188										
S3 150	80,	0.319			20,	0.326	50,	0.320	80,	0.306	120,	0.263
S3 150	160,	0.321										
S4 10	80,	0.138			20,	0.121	50,	0.139	80,	0.145	120,	0.124
S4 10	160,	0.130										
S4 15	80,	0.532	10,	0.568	20,	0.582	50,	0.562	80,	0.539	120,	0.530
S4 15	160,	0.523										
S4 20	80,	1.150	10,	1.150	20,	1.222	50,	1.186	80,	1.212	120,	1.098
S4 20	160,	1.158										
S4 30	80,	0.228	10,	0.224	20,	0.231	50,	0.223	80,	0.232	120,	0.215
S4 30	160,	0.210										
S4 40	80,	0.264	10,	0.273	20,	0.281	50,	0.255	80,	0.268	120,	0.238
S4 40	160,	0.242										
S4 50	80,	0.156			20,	0.148	50,	0.156	80,	0.170	120,	0.155
S4 50	160,	0.147										
S4 65	80,	1.079	10,	1.017	20,	1.081	50,	1.044	80,	1.096	120,	0.948
S4 65	160,	1.010										
S4 70	80,	1.041	10,	1.019	20,	1.100	50,	1.026	80,	1.059	120,	0.908
S4 70	160,	0.809										
S4 80	80,	0.771	10,	0.914	20,	0.763	50,	0.729	80,	0.769	120,	0.707
S4 80	160,	0.701										
S4 85	80,	1.337	10,	1.233	20,	1.366	50,	1.332	80,	1.333	120,	1.137
S4 85	160,	1.080										

S4	110	80, 0.927	10, 1.013	20, 1.008	50, 0.925	80, 0.950	120, 0.788
S4	110	160, 0.715					
S5	10	80, 0.056		20, 0.155	50, 0.143	80, 0.077	120, 0.141
S5	10	160, 0.131					
S5	15	80, 1.443	10, 1.209	20, 1.310	50, 1.295	80, 1.468	120, 1.295
S5	15	160, 1.358					
S5	40	80, 0.708	10, 0.587	20, 0.673	50, 0.692	80, 0.722	120, 0.700
S5	40	160, 0.734					
S5	55	80, 0.374		20, 0.441	50, 0.421	80, 0.383	120, 0.405
S5	55	160, 0.391					
S5	50	80, 1.212	10, 1.058	20, 1.195	50, 1.116	80, 1.203	120, 1.086
S5	50	160, 1.092					
S5	60	80, 1.046	10, 1.034	20, 1.068	50, 1.005	80, 1.102	120, 0.959
S5	60	160, 0.919					
S5	65	80, 1.017	10, 0.812	20, 0.978	50, 0.986	80, 1.027	120, 0.987
S5	65	160, 1.089					
S6	10	80, 2.060	10, 1.637	20, 1.959	50, 1.985	80, 1.977	120, 1.967
S6	10	160, 2.023					
S6	15	80, 1.423	10, 1.322	20, 1.536	50, 1.448	80, 1.453	120, 1.490
S6	15	160, 1.412					
S6	25	80, 1.306	10, 1.185	20, 1.223	50, 1.171	80, 1.264	120, 1.171
S6	25	160, 0.940					
S6	35	80, 1.230	10, 1.168	20, 1.257	50, 1.206	80, 1.229	120, 1.147
S6	35	160, 1.084					
S6	55	80, 1.360	10, 1.253	20, 1.355	50, 1.312	80, 1.368	120, 1.241
S6	55	160, 1.144					
S6	60	80, 1.343	10, 1.254	20, 1.386	50, 1.288	80, 1.360	120, 1.212
S6	60	160, 1.105					
S6	65	80, 1.425	10, 1.339	20, 1.436	50, 1.356	80, 1.426	120, 1.289
S6	65	160, 1.139					
S1	6	80, 0.935	10, 0.832	20, 0.999	50, 0.946	80, 0.959	120, 0.902
S1	6	160, 0.882					
S2	2	80, 0.486	10, 0.446	20, 0.494	50, 0.469	80, 0.504	120, 0.452
S2	2	160, 0.452					
S3	3	80, 1.307	10, 1.252	20, 1.315	50, 1.253	80, 1.299	120, 1.171
S3	3	160, 1.116					
S5	2	80, 1.082	10, 0.932	20, 1.002	50, 0.976	80, 1.082	120, 0.960
S5	2	160, 1.019					
S1	3	80, 2.014		20, 2.057	50, 2.059	80, 2.046	120, 1.995
S1	3	160, 1.971					
S1	2	80, 1.306		20, 1.291	50, 1.332	80, 1.448	120, 1.376

S1 2 160, 1.394

S1 5 80, 1.483

S1 5 160, 1.407

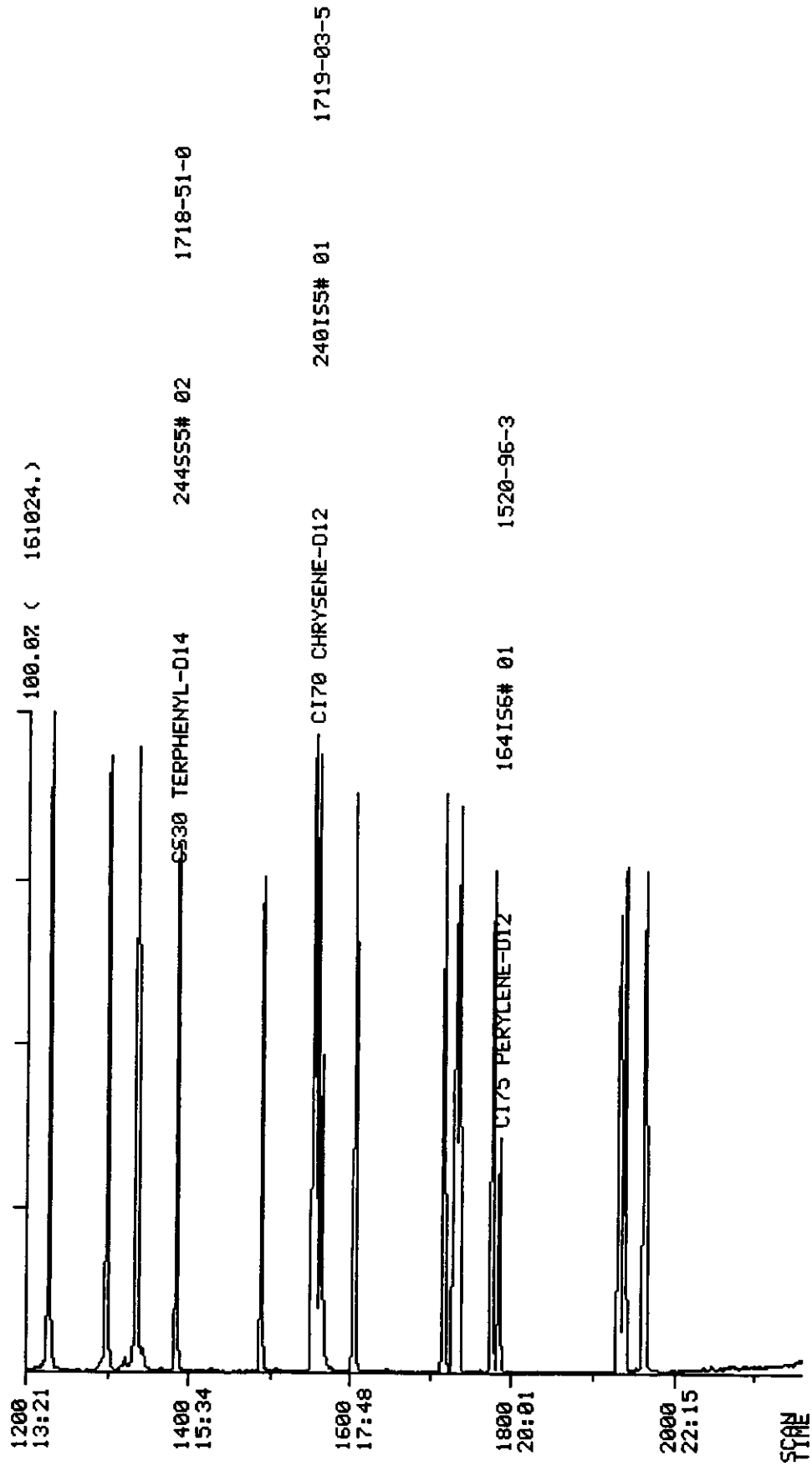
20, 1.561 50, 1.501 80, 1.503 120, 1.437

S3 2 80, 0.241

S3 2 160, 0.217

20, 0.261 50, 0.239 80, 0.233 120, 0.228

DATA FROM FILE: ST16980831 SCANS 1200 TO 2158 ACQUIRED: 08/31/98 12:31:00
 CALI: ST16980831 #3
 SAMPLE: SST0080 80UG/ML CALI III 082198A
 COND.: INST. ID: F16



Data: ST16980831.TI

08/31/98 12:31:00

Sample: SSTD080 80UG/ML CALI III 082198A

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS45 PHENOL-D5	99SS1# 03	4165-62-2
11	CS50 2-FLUOROPHENOL	112SS1# 02	367-12-4
12	CS55 2,4,6-TRIBROMOPHENOL	330SS3# 02	118-79-6
13	CS70 2-CHLOROPHENOL-D4	132 S1# 05	
14	CS75 1,2-DICHLOROBENZENE-D4	152 S1# 06	
15	HEXACHLOROBENZENE-C13		
16	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
17	C320 ANILINE	93 S1#100	62-53-3
18	C315 PHENOL	94 S1#105CC	108-95-2
19	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
20	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
21	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
22	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
23	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
24	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
25	C355 2-METHYLPHENOL	108 S1#160	95-48-7
26	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
27	C365 4-METHYLPHENOL	108 S1#185	106-44-5
28	C370 N-NITROSO-D1-N-PROPYLAM	70 S1#190SP	621-64-7
29	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
30	C410 NITROBENZENE	77 S2# 10	98-95-3
31	C415 ISOPHORONE	82 S2# 20	75-59-1
32	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
33	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
34	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
35	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
36	C430 BENZOIC ACID	122 S2# 45	65-85-0
37	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
38	C450 NAPHTHALENE	128 S2# 60	91-20-3
39	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
40	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
41	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
42	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
43	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
44	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
45	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
46	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
47	C530 2-NITROANILINE	65 S3# 45	88-74-4

No	Name		
48	C535 DIMETHYLPHTHALATE	163 S3# 55	131-11-3
49	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
50	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	340	3:47	1	1.000	A BB	28649.	40.000 UG/ML	0.60
2	136	530	5:54	2	1.000	A BB	100432.	40.000 UG/ML	0.60
3	164	828	9:13	3	1.000	A BB	54347.	40.000 UG/ML	0.60
4	188	1086	12:05	4	1.000	A BB	98520.	40.000 UG/ML	0.60
5	240	1552	17:16	5	1.000	A BB	62289.	40.000 UG/ML	0.60
6	264	1783	19:50	6	1.000	A BB	50750.	40.000 UG/ML	0.60
7	82	422	4:42	2	0.796	A BB	97588.	82.774 UG/ML	1.24
8	172	723	8:03	3	0.873	A BB	142092.	84.729 UG/ML	1.27
9	244	1383	15:23	5	0.891	A BB	134779.	86.967 UG/ML	1.30
10	99	308	3:26	1	0.906	A BB	115381.	79.535 UG/ML	1.19
11	112	196	2:11	1	0.576	A BB	74816.	76.346 UG/ML	1.14
12	330	969	10:47	3	1.170	A BB	26238.	81.946 UG/ML	1.23
13	132	312	3:28	1	0.918	A BB	84951.	80.059 UG/ML	1.20
14	152	359	4:00	1	1.056	A BB	53560.	81.280 UG/ML	1.22
15	NOT FOUND								
16	74	103	1:09	1	0.303	A BB	50841.	69.648 UG/ML	1.04
17	93	301	3:21	1	0.885	A BV	108330.	81.918 UG/ML	1.23
18	94	309	3:26	1	0.909	A VB	119147.	84.537 UG/ML	1.27
19	93	315	3:30	1	0.926	A VB	81492.	83.187 UG/ML	1.25
20	128	314	3:30	1	0.924	A BB	91760.	85.590 UG/ML	1.28
21	146	331	3:41	1	0.974	A BV	94316.	83.030 UG/ML	1.24
22	146	342	3:48	1	1.006	A VB	97001.	83.731 UG/ML	1.25
23	108	369	4:06	1	1.085	A BB	48199.	78.765 UG/ML	1.18
24	146	361	4:01	1	1.062	A BB	89006.	82.857 UG/ML	1.24
25	108	390	4:20	1	1.147	A BB	66743.	79.332 UG/ML	1.19
26	45	389	4:20	1	1.144	A BB	144852.	79.645 UG/ML	1.19
27	108	417	4:38	1	1.226	A BB	71198.	77.917 UG/ML	1.17
28	70	410	4:34	1	1.206	A BV	51578.	79.498 UG/ML	1.19
29	117	407	4:32	1	1.197	A BB	41410.	81.636 UG/ML	1.22
30	77	425	4:44	2	0.802	A VB	95928.	85.850 UG/ML	1.29
31	82	467	5:12	2	0.881	A BB	148832.	79.956 UG/ML	1.20
32	139	474	5:16	2	0.894	A VB	45121.	84.179 UG/ML	1.26
33	107	497	5:32	2	0.938	A BB	76740.	92.634 UG/ML	1.39
34	93	511	5:41	2	0.964	A BB	104239.	81.300 UG/ML	1.22
35	162	517	5:45	2	0.975	A BB	64246.	83.195 UG/ML	1.25
36	122	546	6:04	2	1.030	A BB	33466.	48.330 UG/ML	0.72
37	180	524	5:50	2	0.989	A BB	69958.	84.196 UG/ML	1.26
38	128	533	5:56	2	1.006	A BB	217673.	84.809 UG/ML	1.27
39	127	553	6:09	2	1.043	A BB	93696.	82.234 UG/ML	1.23
40	225	560	6:14	2	1.057	A BB	35840.	84.907 UG/ML	1.27
41	107	649	7:13	2	1.225	A BB	69925.	82.458 UG/ML	1.23
42	142	651	7:14	2	1.228	A BV	197003.	104.439 UG/ML	1.56
43	237	680	7:34	3	0.821	A BB	44842.	88.855 UG/ML	1.33
44	196	708	7:53	3	0.855	A BV	46323.	84.486 UG/ML	1.27
45	196	713	7:56	3	0.861	A VB	45345.	80.983 UG/ML	1.21
46	162	733	8:09	3	0.885	A BB	140394.	86.659 UG/ML	1.30
47	65	762	8:29	3	0.920	A BB	56935.	83.499 UG/ML	1.25
48	163	806	8:58	3	0.973	A BB	154975.	85.067 UG/ML	1.27
49	152	802	8:55	3	0.969	A BB	219486.	87.869 UG/ML	1.32
50	165	812	9:02	3	0.981	A BB	39614.	90.042 UG/ML	1.35

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:42	1.00	0.796	1.00	82.77	50.00	0.777	0.470	1.66
8	8:03	1.00	0.873	1.00	84.73	50.00	2.092	1.234	1.69
9	15:23	1.00	0.891	1.00	86.97	50.00	1.731	0.995	1.74
10	3:26	1.00	0.906	1.00	79.53	50.00	3.222	2.025	1.59
11	2:11	1.00	0.576	1.00	76.35	50.00	2.089	1.368	1.53
12	10:47	1.00	1.170	1.00	81.95	50.00	0.386	0.236	1.64
13	3:28	1.00	0.918	1.00	80.06	50.00	2.372	1.482	1.60
14	4:00	1.00	1.056	1.00	81.28	50.00	1.496	0.920	1.63
15	12:39		0.941						
16	1:09	1.00	0.303	1.00	69.65	50.00	1.420	1.019	1.39
17	3:21	1.00	0.885	1.00	81.92	50.00	3.025	1.846	1.64
18	3:26	1.00	0.909	1.00	84.54	50.00	3.327	1.968	1.69
19	3:30	1.00	0.926	1.00	83.19	50.00	2.276	1.368	1.66
20	3:30	1.00	0.924	1.00	85.59	50.00	2.562	1.497	1.71
21	3:41	1.00	0.974	1.00	83.03	50.00	2.634	1.586	1.66
22	3:48	1.00	1.006	1.00	83.73	50.00	2.709	1.617	1.67
23	4:06	1.00	1.085	1.00	78.77	50.00	1.346	0.854	1.58
24	4:01	1.00	1.062	1.00	82.86	50.00	2.485	1.500	1.66
25	4:20	1.00	1.147	1.00	79.33	50.00	1.864	1.175	1.59
26	4:20	1.00	1.144	1.00	79.65	50.00	4.045	2.539	1.59
27	4:38	1.00	1.226	1.00	77.92	50.00	1.988	1.276	1.56
28	4:34	1.00	1.206	1.00	79.50	50.00	1.440	0.906	1.59
29	4:32	1.00	1.197	1.00	81.64	50.00	1.156	0.708	1.63
30	4:44	1.00	0.802	1.00	85.85	50.00	0.764	0.445	1.72
31	5:12	1.00	0.881	1.00	79.96	50.00	1.186	0.741	1.60
32	5:16	1.00	0.894	1.00	84.18	50.00	0.359	0.213	1.68
33	5:32	1.00	0.938	1.00	92.63	50.00	0.611	0.330	1.85
34	5:41	1.00	0.964	1.00	81.30	50.00	0.830	0.511	1.63
35	5:45	1.00	0.975	1.00	83.19	50.00	0.512	0.308	1.66
36	6:04	1.00	1.030	1.00	48.33	50.00	0.267	0.276	0.97
37	5:50	1.00	0.989	1.00	84.20	50.00	0.557	0.331	1.68
38	5:56	1.00	1.006	1.00	84.81	50.00	1.734	1.022	1.70
39	6:09	1.00	1.043	1.00	82.23	50.00	0.746	0.454	1.64
40	6:14	1.00	1.057	1.00	84.91	50.00	0.285	0.168	1.70
41	7:13	1.00	1.225	1.00	82.46	50.00	0.557	0.338	1.65
42	7:14	1.00	1.228	1.00	104.44	50.00	1.569	0.751	2.09
43	7:34	1.00	0.821	1.00	88.86	50.00	0.660	0.371	1.78
44	7:53	1.00	0.855	1.00	84.49	50.00	0.682	0.404	1.69
45	7:56	1.00	0.861	1.00	80.98	50.00	0.667	0.412	1.62
46	8:09	1.00	0.885	1.00	86.66	50.00	2.067	1.192	1.73
47	8:29	1.00	0.920	1.00	83.50	50.00	0.838	0.502	1.67
48	8:58	1.00	0.973	1.00	85.07	50.00	2.281	1.341	1.70
49	8:55	1.00	0.969	1.00	87.87	50.00	3.231	1.838	1.76
50	9:02	1.00	0.981	1.00	90.04	50.00	0.583	0.324	1.80

Data: ST16980831.TI

08/31/98 12:31:00

Sample: SST080 80UG/ML CALI III 082198A

Conds.: INST. ID: F16

Formula: IUL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from average of whole .RL

No	Name		
51	C545 3-NITROANILINE	138 S3# 75	99-09-2
52	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
53	C555 2,4-DINITROPHENOL	184 S3# 85SP	51-28-5
54	C565 DIBENZOFURAN	168 S3# 90	132-64-9
55	C560 4-NITROPHENOL	109 S3# 95SP	100-02-7
56	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
57	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2
58	C590 FLUORENE	166 S3#135	86-73-7
59	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
60	C595 4-NITROANALINE	138 S3#150	100-01-6
61	C610 4,6-DINITRO-2-METHYLPH	198 S4# 10	534-52-1
62	C615 N-NITROSODIPHENYLAMINE	169 S4# 15CC	87-30-6
63	C620 AZOBENZENE	77 S4# 20	103-33-3
64	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
65	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
66	C635 PENTACHLOROPHENOL	266 S4# 50	87-86-5
67	C640 PHENANTHRENE	178 S4# 65	85-01-8
68	C645 ANTHRACENE	178 S4# 70	120-12-7
69	C647 CARBAZOLE	167 S4# 80	86-74-8
70	C650 DI-N-BUTYLPHTHALATE	149 S4# 85	84-74-2
71	C655 FLUORANTHENE	202 S4#110CC	206-44-0
72	C710 BENZIDINE	184 S5# 10	92-81-5
73	C715 PYRENE	202 S5# 15	129-00-0
74	C720 BUTYLBENZYLPHTHALATE	149 S5# 40	85-68-7
75	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
76	C725 3,3'-DICHLOROBENZIDINE	252 S5# 55	91-94-1
77	C740 CHRYSENE	228 S5# 60	218-01-9
78	C745 BIS(2-ETHYLHEXYL)PHTHA	149 S5# 65	117-81-7
79	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
80	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
81	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
82	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
83	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
84	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
85	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	138	837	9:19	3	1.011	A BB	43517.	83.685 UG/ML	1.25
52	153	834	9:17	3	1.007	A BB	136730.	86.856 UG/ML	1.30
53	184	856	9:31	3	1.034	A BB	21832.	84.885 UG/ML	1.27
54	168	866	9:38	3	1.046	A VB	196548.	86.670 UG/ML	1.30
55	109	887	9:52	3	1.071	A BB	18892.	80.538 UG/ML	1.21
56	165	880	9:47	3	1.063	A BB	51300.	95.049 UG/ML	1.42
57	149	935	10:24	3	1.129	A BB	163921.	88.144 UG/ML	1.32
58	166	926	10:18	3	1.118	A BB	155682.	88.292 UG/ML	1.32

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	204	937	10:25	3	1.132	A BB	71622.	86.032 UG/ML	1.29
60	138	946	10:31	3	1.143	A BB	34652.	83.074 UG/ML	1.24
61	198	951	10:35	4	0.876	A BB	27112.	83.379 UG/ML	1.25
62	169	962	10:42	4	0.886	A BV	104728.	77.208 UG/ML	1.16
63	77	964	10:43	4	0.888	A VB	226631.	78.592 UG/ML	1.18
64	248	1020	11:21	4	0.939	A BB	44954.	82.055 UG/ML	1.23
65	284	1019	11:20	4	0.938	A BB	52022.	81.399 UG/ML	1.22
66	266	1062	11:49	4	0.978	A BB	30674.	80.327 UG/ML	1.20
67	178	1091	12:08	4	1.005	A BV	212616.	83.599 UG/ML	1.25
68	178	1100	12:14	4	1.013	A VB	205171.	84.402 UG/ML	1.26
69	167	1138	12:39	4	1.048	A BB	151821.	80.691 UG/ML	1.21
70	149	1227	13:39	4	1.130	A BB	263375.	85.782 UG/ML	1.28
71	202	1298	14:26	4	1.195	A BB	182566.	82.359 UG/ML	1.23
72	184	1341	14:55	5	0.864	A BB	6976.	34.563 UG/ML	0.52
73	202	1335	14:51	5	0.860	A BB	179798.	87.298 UG/ML	1.31
74	149	1488	16:33	5	0.959	A BV	88160.	82.691 UG/ML	1.24
75	228	1551	17:15	5	0.999	A BV	150997.	86.203 UG/ML	1.29
76	252	1562	17:22	5	1.006	A BB	46552.	73.268 UG/ML	1.10
77	228	1557	17:19	5	1.003	A VB	130339.	82.506 UG/ML	1.24
78	149	1603	17:50	5	1.033	A BB	126644.	83.005 UG/ML	1.24
79	149	1715	19:05	6	0.962	A BV	209065.	85.620 UG/ML	1.28
80	252	1728	19:13	6	0.969	A BV	144473.	78.892 UG/ML	1.18
81	252	1733	19:17	6	0.972	A VB	132603.	90.166 UG/ML	1.35
82	252	1775	19:45	6	0.996	A BB	124893.	83.293 UG/ML	1.25
83	276	1930	21:28	6	1.082	A BV	138037.	85.069 UG/ML	1.27
84	278	1937	21:33	6	1.086	A BB	136299.	84.763 UG/ML	1.27
85	276	1962	21:49	6	1.100	A BB	144611.	85.643 UG/ML	1.28

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:19	1.00	1.011	1.00	83.68	50.00	0.641	0.383	1.67
52	9:17	1.00	1.007	1.00	86.86	50.00	2.013	1.159	1.74
53	9:31	1.00	1.034	1.00	84.89	50.00	0.321	0.189	1.70
54	9:38	1.00	1.046	1.00	86.67	50.00	2.893	1.669	1.73
55	9:52	1.00	1.071	1.00	80.54	50.00	0.278	0.173	1.61
56	9:47	1.00	1.063	1.00	95.05	50.00	0.755	0.397	1.90
57	10:24	1.00	1.129	1.00	88.14	50.00	2.413	1.369	1.76
58	10:18	1.00	1.118	1.00	88.29	50.00	2.292	1.298	1.77
59	10:25	1.00	1.132	1.00	86.03	50.00	1.054	0.613	1.72
60	10:31	1.00	1.143	1.00	83.07	50.00	0.510	0.307	1.66
61	10:35	1.00	0.876	1.00	83.38	50.00	0.220	0.132	1.67
62	10:42	1.00	0.886	1.00	77.21	50.00	0.850	0.551	1.54
63	10:43	1.00	0.888	1.00	78.59	50.00	1.840	1.171	1.57
64	11:21	1.00	0.939	1.00	82.05	50.00	0.365	0.222	1.64
65	11:20	1.00	0.938	1.00	81.40	50.00	0.422	0.259	1.63
66	11:49	1.00	0.978	1.00	80.33	50.00	0.249	0.155	1.61
67	12:08	1.00	1.005	1.00	83.60	50.00	1.726	1.033	1.67
68	12:14	1.00	1.013	1.00	84.40	50.00	1.666	0.987	1.69
69	12:39	1.00	1.048	1.00	80.69	50.00	1.233	0.764	1.61
70	13:39	1.00	1.130	1.00	85.78	50.00	2.139	1.247	1.72
71	14:26	1.00	1.195	1.00	82.36	50.00	1.482	0.900	1.65
72	14:55	1.00	0.864	1.00	34.56	50.00	0.090	0.130	0.69
73	14:51	1.00	0.860	1.00	87.30	50.00	2.309	1.323	1.75
74	16:33	1.00	0.959	1.00	82.69	50.00	1.132	0.685	1.65
75	17:15	1.00	0.999	1.00	86.20	50.00	1.939	1.125	1.72
76	17:22	1.00	1.006	1.00	73.27	50.00	0.598	0.408	1.47
77	17:19	1.00	1.003	1.00	82.51	50.00	1.674	1.014	1.65

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	17:50	1.00	1.033	1.00	83.00	50.00	1.627	0.980	1.66
79	19:05	1.00	0.962	1.00	85.62	50.00	3.296	1.925	1.71
80	19:13	1.00	0.969	1.00	78.89	50.00	2.277	1.443	1.58
81	19:17	1.00	0.972	1.00	90.17	50.00	2.090	1.159	1.80
82	19:45	1.00	0.996	1.00	83.29	50.00	1.969	1.182	1.67
83	21:28	1.00	1.082	1.00	85.07	50.00	2.176	1.279	1.70
84	21:33	1.00	1.086	1.00	84.76	50.00	2.149	1.267	1.70
85	21:49	1.00	1.100	1.00	85.64	50.00	2.280	1.331	1.71

QUANTERRA GC/MS
SEMIVOLATILE APPENDIX IX CALIBRATION CHE

CONTIN. CALIBRATION: 80 UG/ML APPENDIX ST16980831A 08/31/98 13:07:00
 INITIAL CALIBRATION: 10 UG/ML APPENDIX ST16980831B 08/31/98 13:35:00
 INITIAL CALIBRATION: 20 UG/ML APPENDIX ST16980831C 08/31/98 14:02:00
 INITIAL CALIBRATION: 50 UG/ML APPENDIX ST16980831D 08/31/98 14:32:00
 INITIAL CALIBRATION: 80 UG/ML APPENDIX ST16980831A 08/31/98 13:07:00
 INITIAL CALIBRATION: 120 UG/ML APPENDIX ST16980831E 08/31/98 15:02:00
 INITIAL CALIBRATION: 160 UG/ML APPENDIX ST16980831F 08/31/98 15:31:00

Library Entry	Compound	Initial Calibration			Continuing Calibration		
		Response Factor		% RSD	Amount		% Diff
		Avg	Min	Max	Calc	Exp	Max
S1	20 PYRIDINE	1.590		6.5	79.82	80.00	0.2 50.0
S1	30 2-PICOLINE	1.565		1.3	80.59	80.00	-0.7 50.0
S1	40 N-NITROSOMETHYLETHYL	0.811		9.2	86.37	80.00	-8.0 50.0
S1	60 METHYLMETHANESULFONA	0.636		6.2	75.73	80.00	5.3 50.0
S1	70 N-NITROSODIETHYLAMIN	0.521		7.6	84.19	80.00	-5.2 50.0
S1	85 ETHYLMETHANE SULFONA	1.109		11.0	84.32	80.00	-5.4 50.0
S1	95 PENTACHLOROETHANE	0.602		1.4	80.36	80.00	-0.5 50.0
S1	170 C361 ACETOPHENONE	1.934		2.8	80.44	80.00	-0.5 50.0
S1	175 N-NITROSOPYRROLIDINE	0.553		6.5	81.36	80.00	-1.7 50.0
S1	180 N-NITROSOMORPHOLINE	0.821		1.4	78.49	80.00	1.9 50.0
S1	182 3-METHYL PHENOL	2.252		9.9	85.54	80.00	-6.9 50.0
S1	195 O-TOLUIDINE	2.160		9.2	78.86	80.00	1.4 50.0
S2	15 N-NITROSOPIPERIDINE	0.321		4.9	81.55	80.00	-1.9 50.0
S2	50 AA-DIMETHYLPHENETHYL	1.285		15.6	64.54	80.00	19.3 50.0
S2	85 2,6-DICHLOROPHENOL	0.257		12.8	86.94	80.00	-8.7 50.0
S2	90 HEXACHLOROPROPENE	0.198		0.9	79.65	80.00	0.4 50.0
S2	115 P-PHENYLENE DIAMINE	0.131		42.2	22.98	80.00	71.3* 50.0
S2	120 N-NITROSODI-N-BUTYLA	0.213		7.2	84.49	80.00	-5.6 50.0
S2	140 SAFROLE	0.248		0.9	80.91	80.00	-1.1 50.0
S3	10 1,2,4,5-TETRACHLOROB	0.433		4.4	79.47	80.00	0.7 50.0
S3	15 ISOSAFROLE (#1)	0.044		3.4	78.49	80.00	1.9 50.0
S3	35 ISOSAFROLE (#2)	0.195		2.2	80.49	80.00	-0.6 50.0
S3	42 1-CHLORONAPHTH	1.318		16.5	92.76	80.00	-16.0 50.0
S3	50 1,4-NAPHTHOQUINONE	0.414		5.6	86.39	80.00	-8.0 50.0
S3	60 1,3-DINITROBENZENE	0.198		8.6	85.21	80.00	-6.5 50.0
S3	100 PENTACHLOROBENZENE	0.489		3.8	80.60	80.00	-0.7 50.0
S3	110 1-NAPHTHYLAMINE	0.837		6.6	73.13	80.00	8.6 50.0
S3	115 2-NAPHTHYLAMINE	0.966		5.8	82.51	80.00	-3.1 50.0
S3	120 2,3,4,6-TETRACHLOROP	0.297		4.5	83.39	80.00	-4.2 50.0
S3	145 5-NITRO-O-TOLUIDINE	0.355		7.2	85.81	80.00	-7.3 50.0
S4	25 SYM-TRINITROBENZENE	0.162		5.3	84.96	80.00	-6.2 50.0
S4	35 PHENACETIN	0.317		3.2	79.69	80.00	0.4 50.0
S4	37 DIALLATE	0.090		4.4	78.88	80.00	1.4 50.0
S4	45 4-AMINOBIIPHENYL	0.609		7.6	79.14	80.00	1.1 50.0
S4	55 PRONAMIDE	0.299		5.2	80.55	80.00	-0.7 50.0
S4	60 PENTACHLORONITROBENZ	0.080		1.8	78.96	80.00	1.3 50.0
S4	75 2SECBUTYL-4,6-DINITR	0.153		9.3	85.15	80.00	-6.4 50.0
S4	100 4-NITROQUINOLINE-1-O	0.072		11.5	84.40	80.00	-5.5 50.0
S4	105 METHAPYRILENE	0.305		26.8	53.79	80.00	32.8 50.0
S4	106 ISODRIN	0.127		1.5	80.73	80.00	-0.9 50.0
S4	120 CHLOROBENZILATE	0.323		11.1	76.29	80.00	4.6 50.0
S5	20 ARAMITE (#1)	0.061		4.4	79.45	80.00	0.7 50.0
S5	25 ARAMITE (#2)	0.087		4.4	83.30	80.00	-4.1 50.0
S5	30 P-DIMETHYLAMINOAZOBE	0.419		1.1	80.14	80.00	-0.2 50.0
S5	35 3,3'-DIMETHYLBENZIDI	0.418		17.0	77.82	80.00	2.7 50.0
S5	37 KEPONE	0.082		34.6	87.25	80.00	-9.1 50.0
S5	45 2-ACETYLAMINOFLUOREN	0.432		4.0	81.04	80.00	-1.3 50.0

S5	85	3-METHYLCHOLANTHRENE	0.548	6.1	80.10	80.00	-0.1	50.0
S6	20	7,12-DIMETHYLBENZANT	0.610	0.5	79.97	80.00	0.0	50.0

12.2% of the compounds exceed the %RSD value
of 15.0. 6 of 49 compounds are out.

0 CCC cmpds out
1 of nonCCC exceed 50 %D

QUANTERRA GC/MS
SEMIVOLATILE APPENDIX IX CALIBRATION CHE

CONTIN. CALIBRATION: 80 UG/ML APPENDIX ST16980831A 08/31/98 13:07:00
 INITIAL CALIBRATION: 10 UG/ML APPENDIX ST16980831B 08/31/98 13:35:00
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 INITIAL CALIBRATION: 160 UG/ML APPENDIX ST16980831F 08/31/98 15:31:00

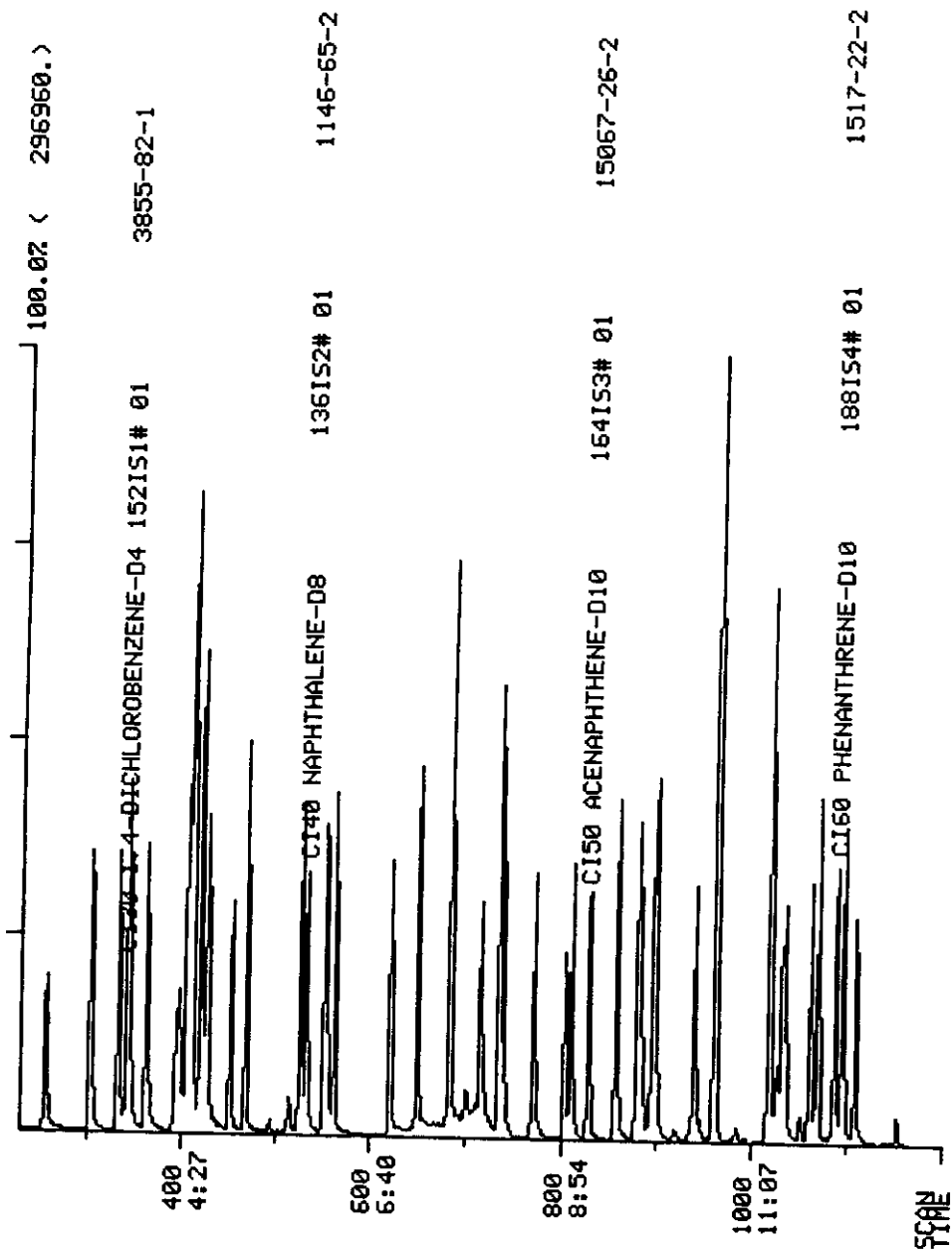
ST16980831A ST16980831B ST16980831C ST16980831D ST16980831A ST16980831E
 ST16980831F

Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S1	20	80, 1.587	10, 1.770	20, 1.583	50, 1.578	80, 1.587	120, 1.449					
S1	20	160, 1.576										
S1	30	80, 1.577		20, 1.563	50, 1.594	80, 1.577	120, 1.547					
S1	30	160, 1.545										
S1	40	80, 0.876	10, 0.700	20, 0.737	50, 0.823	80, 0.876	120, 0.860					
S1	40	160, 0.870										
S1	60	80, 0.602	10, 0.619	20, 0.688	50, 0.685	80, 0.602	120, 0.619					
S1	60	160, 0.604										
S1	70	80, 0.549	10, 0.450	20, 0.506	50, 0.521	80, 0.549	120, 0.547					
S1	70	160, 0.555										
S1	85	80, 1.168	10, 0.921	20, 1.008	50, 1.120	80, 1.168	120, 1.190					
S1	85	160, 1.244										
S1	95	80, 0.605		20, 0.612	50, 0.605	80, 0.605	120, 0.595					
S1	95	160, 0.592										
S1	170	80, 1.945	10, 1.869	20, 2.024	50, 1.960	80, 1.945	120, 1.903					
S1	170	160, 1.903										
S1	175	80, 0.562	10, 0.481	20, 0.555	50, 0.575	80, 0.562	120, 0.569					
S1	175	160, 0.575										
S1	180	80, 0.805	10, 0.828	20, 0.838	50, 0.821	80, 0.805	120, 0.817					
S1	180	160, 0.816										
S1	182	80, 2.408	10, 1.848	20, 2.130	50, 2.339	80, 2.408	120, 2.391					
S1	182	160, 2.394										
S1	195	80, 2.129		20, 2.463	50, 2.228	80, 2.129	120, 2.032					
S1	195	160, 1.949										
S2	15	80, 0.327	10, 0.293	20, 0.312	50, 0.326	80, 0.327	120, 0.337					
S2	15	160, 0.329										
S2	50	80, 1.036		20, 1.575	50, 1.353	80, 1.036	120, 1.276					
S2	50	160, 1.184										
S2	85	80, 0.280	10, 0.202	20, 0.234	50, 0.264	80, 0.280	120, 0.279					
S2	85	160, 0.285										
S2	90	80, 0.197		20, 0.196	50, 0.201	80, 0.197	120, 0.198					
S2	90	160, 0.198										

S2 115 80, 0.038		20, 0.163	50, 0.167	80, 0.038	120, 0.165
S2 115 160, 0.121					
S2 120 80, 0.225	10, 0.186	20, 0.205	50, 0.213	80, 0.225	120, 0.224
S2 120 160, 0.224					
S2 140 80, 0.250		20, 0.246	50, 0.247	80, 0.250	120, 0.245
S2 140 160, 0.250					
S3 10 80, 0.430	10, 0.469	20, 0.431	50, 0.434	80, 0.430	120, 0.416
S3 10 160, 0.419					
S3 15 80, 0.043		20, 0.046	50, 0.042	80, 0.043	120, 0.044
S3 15 160, 0.044					
S3 35 80, 0.196		20, 0.201	50, 0.195	80, 0.196	120, 0.190
S3 35 160, 0.192					
S3 42 80, 1.528	10, 1.531	20, 1.098	50, 1.129	80, 1.528	120, 1.134
S3 42 160, 1.488					
S3 50 80, 0.447		20, 0.403	50, 0.429	80, 0.447	120, 0.404
S3 50 160, 0.389					
S3 60 80, 0.210	10, 0.166	20, 0.191	50, 0.202	80, 0.210	120, 0.212
S3 60 160, 0.204					
S3 100 80, 0.493	10, 0.516	20, 0.504	50, 0.483	80, 0.493	120, 0.469
S3 100 160, 0.471					
S3 110 80, 0.765	10, 0.869	20, 0.859	50, 0.889	80, 0.765	120, 0.872
S3 110 160, 0.769					
S3 115 80, 0.996	10, 0.924	20, 0.974	50, 1.041	80, 0.996	120, 0.980
S3 115 160, 0.881					
S3 120 80, 0.310		20, 0.277	50, 0.302	80, 0.310	120, 0.306
S3 120 160, 0.290					
S3 145 80, 0.381		20, 0.345	50, 0.368	80, 0.381	120, 0.367
S3 145 160, 0.316					
S4 25 80, 0.172		20, 0.149	50, 0.162	80, 0.172	120, 0.166
S4 25 160, 0.159					
S4 35 80, 0.316		20, 0.305	50, 0.324	80, 0.316	120, 0.330
S4 35 160, 0.311					
S4 37 80, 0.089		20, 0.088	50, 0.087	80, 0.089	120, 0.089
S4 37 160, 0.097					
S4 45 80, 0.602		20, 0.643	50, 0.664	80, 0.602	120, 0.590
S4 45 160, 0.546					
S4 55 80, 0.301		20, 0.312	50, 0.315	80, 0.301	120, 0.291
S4 55 160, 0.277					
S4 60 80, 0.079		20, 0.081	50, 0.079	80, 0.079	120, 0.082
S4 60 160, 0.081					
S4 75 80, 0.163		20, 0.130	50, 0.165	80, 0.163	120, 0.159

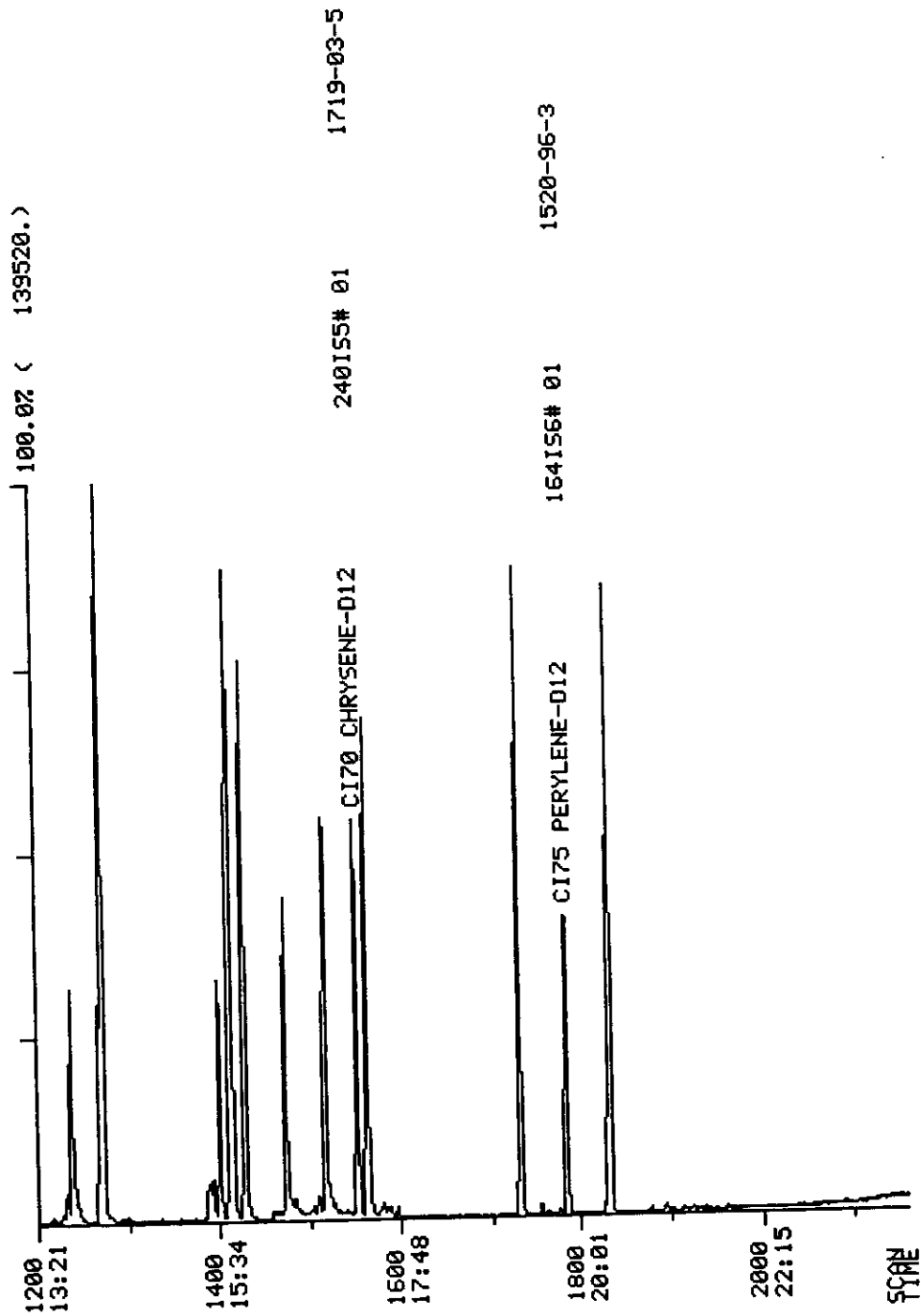
S4 75 160, 0.150					
S4 100 80, 0.076		20, 0.058	50, 0.074	80, 0.076	120, 0.079
S4 100 160, 0.075					
S4 105 80, 0.205		20, 0.424	50, 0.339	80, 0.205	120, 0.279
S4 105 160, 0.277					
S4 106 80, 0.128	10, 0.127	20, 0.125	50, 0.129	80, 0.128	120, 0.127
S4 106 160, 0.124					
S4 120 80, 0.308	10, 0.376	20, 0.351	50, 0.329	80, 0.308	120, 0.295
S4 120 160, 0.281					
S5 20 80, 0.061		20, 0.057	50, 0.063	80, 0.061	120, 0.064
S5 20 160, 0.061					
S5 25 80, 0.090		20, 0.081	50, 0.090	80, 0.090	120, 0.087
S5 25 160, 0.085					
S5 30 80, 0.420		20, 0.417	50, 0.425	80, 0.420	120, 0.412
S5 30 160, 0.420					
S5 35 80, 0.406		20, 0.522	50, 0.450	80, 0.406	120, 0.364
S5 35 160, 0.346					
S5 37 80, 0.089		20, 0.123	50, 0.087	80, 0.089	120, 0.056
S5 37 160, 0.054					
S5 45 80, 0.438		20, 0.404	50, 0.450	80, 0.438	120, 0.429
S5 45 160, 0.440					
S5 85 80, 0.549		20, 0.586	50, 0.576	80, 0.549	120, 0.515
S5 85 160, 0.514					
S6 20 80, 0.610		20, 0.609	50, 0.615	80, 0.610	120, 0.608
S6 20 160, 0.609					

DATA FROM FILE: ST16980831A SCANS 230 TO 1200 ACQUIRED: 08/31/98 13:07:00
 SAMPLE: 80UG/ML AP9 062598F CALI: ST16980831A #3
 CONDS.: INST. ID: F16



DATA FROM FILE: ST16980831A SCANS 1200 TO 2158 ACQUIRED: 08/31/98 13:07:00
CALI: ST16980831A #3

SAMPLE: 80UG/ML AP9 062598F
COND.: INST. ID: F16



Data: ST16980831A.T1

08/31/98 13:07:00

Sample: 80UG/ML AP9 062598F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	2-PICOLINE	93 S1# 30	109-06-8
9	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
10	METHYLMETHANESULFONATE	80 S1# 60	
11	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
12	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
13	PENTACHLOROETHANE	117 S1# 95	76-01-7
14	C361 ACETOPHENONE	105 S1#170	
15	N-NITROSOPYRROLIDINE	100 S1#175	930-55-2
16	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
17	3-METHYL PHENOL	108 S1#182	
18	O-TOLUIDINE	106 S1#195	95-53-4
19	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
20	AA-DIMETHYLPHENETHYLAMINE	58 S2# 50	122-09-8
21	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
22	HEXACHLOROPROPENE	213 S2# 90	
23	P-PHENYLENE DIAMINE	108 S2#115	106-50-3
24	N-NITROSODI-N-BUTYLAMINE	84 S2#120	924-16-3
25	SAFROLE	152 S2#140	94-59-7
26	1,2,4,5-TETRACHLOROBENZENE	214 S3# 10	95-94-3
27	ISOSAFROLE (#1)	162 S3# 15	120-58-1
28	ISOSAFROLE (#2)	104 S3# 35	120-58-1
29	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
30	1,4-NAPHTHOQUINONE	158 S3# 50	130-15-4
31	1,3-DINITROBENZENE	168 S3# 60	99-65-0
32	PENTACHLOROBENZENE	250 S3#100	708-93-5
33	1-NAPHTHYLAMINE	143 S3#110	134-32-7
34	2-NAPHTHYLAMINE	143 S3#115	91-59-8
35	2,3,4,6-TETRACHLOROPHENOL	232 S3#120	58-90-2
36	5-NITRO-O-TOLUIDINE	152 S3#145	99-52-5
37	SYM-TRINITROBENZENE	75 S4# 25	
38	PHENACETIN	108 S4#35	62-44-2
39	DIALATE	234 S4# 37	
40	4-AMINOBIIPHENYL	169 S4# 45	92-67-1
41	PRONAMIDE	173 S4# 55	23950-58-5
42	PENTACHLORONITROBENZENE	237 S4# 60	82-68-8
43	2SEC BUTYL-4,6-DINITROPHENOL	211 S4# 75	88-85-7
44	4-NITROQUINOLINE-1-OXIDE	190 S4#100	
45	METHAPYRILENE	58 S4#105	91-80-5
46	ISODRIN		
47	CHLOROBENZILATE	139 S4#120	

No	Name		
48	ARAMITE (#1)	185 S5# 20	140-57-8
49	ARAMITE (#2)	185 S5# 25	140-57-8
50	P-DIMETHYLAMINOAZOBENZENE	120 S5# 30	60-11-7

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	340	3:47	1	1.000	A BB	29680.	40.000 UG/ML	0.97
2	136	530	5:54	2	1.000	A BB	108356.	40.000 UG/ML	0.97
3	164	828	9:13	3	1.000	A BB	60104.	40.000 UG/ML	0.97
4	188	1087	12:05	4	1.000	A BB	107988.	40.000 UG/ML	0.97
5	240	1551	17:15	5	1.000	A BV	69686.	40.000 UG/ML	0.97
6	264	1782	19:49	6	1.000	A BB	54786.	40.000 UG/ML	0.97
7	79	103	1:09	1	0.303	A BB	94198.	79.822 UG/ML	1.93
8	93	145	1:37	1	0.426	A BB	93595.	80.606 UG/ML	1.95
9	42	157	1:45	1	0.462	A BB	51975.	86.359 UG/ML	2.09
10	80	182	2:01	1	0.535	A BB	35745.	75.724 UG/ML	1.83
11	102	218	2:25	1	0.641	A BB	32568.	84.191 UG/ML	2.04
12	79	255	2:50	1	0.750	A BB	69355.	84.324 UG/ML	2.04
13	117	302	3:22	1	0.888	A BB	35884.	80.375 UG/ML	1.94
14	105	404	4:30	1	1.188	A BB	115427.	80.441 UG/ML	1.94
15	100	405	4:30	1	1.191	A BB	33375.	81.342 UG/ML	1.97
16	56	411	4:34	1	1.209	A BV	47803.	78.504 UG/ML	1.90
17	108	419	4:40	1	1.232	A BB	142918.	85.538 UG/ML	2.07
18	106	408	4:32	1	1.200	A BB	126404.	78.852 UG/ML	1.91
19	42	451	5:01	2	0.851	A BV	70838.	81.594 UG/ML	1.97
20	58	710	7:54	2	1.340	qedt	224618.	64.531 UG/ML	1.56
21	162	552	6:08	2	1.042	A BB	60603.	86.895 UG/ML	2.10
22	213	549	6:06	2	1.036	A BB	42724.	79.594 UG/ML	1.92
23	108	667	7:25	2	1.258	qedt	8144.	22.982 UG/ML	0.56
24	84	620	6:54	2	1.170	A BB	48711.	84.388 UG/ML	2.04
25	162	648	7:12	2	1.223	A BB	54270.	80.884 UG/ML	1.96
26	214	681	7:34	3	0.822	A BB	51722.	79.457 UG/ML	1.92
27	162	698	7:46	3	0.843	A BB	5166.	78.765 UG/ML	1.90
28	104	737	8:12	3	0.890	A BB	23560.	80.505 UG/ML	1.95
29	162	733	8:09	3	0.885	A BB	183709.	92.771 UG/ML	2.24
30	158	770	8:34	3	0.930	A BB	53790.	86.357 UG/ML	2.09
31	168	803	8:56	3	0.970	A BB	25287.	85.215 UG/ML	2.06
32	250	858	9:33	3	1.036	A BB	59261.	80.576 UG/ML	1.95
33	143	883	9:49	3	1.066	A BB	91990.	73.120 UG/ML	1.77
34	143	899	10:00	3	1.086	A BB	119758.	82.503 UG/ML	1.99
35	232	895	9:57	3	1.081	A BB	37212.	83.399 UG/ML	2.02
36	152	940	10:27	3	1.135	A BB	45826.	85.785 UG/ML	2.07
37	75	1025	11:24	4	0.943	A VB	37064.	84.994 UG/ML	2.05
38	108	1034	11:30	4	0.951	A BB	68243.	79.750 UG/ML	1.93
39	234	1018	11:19	4	0.937	A BV	19166.	78.905 UG/ML	1.91
40	169	1069	11:53	4	0.983	A BB	130115.	79.141 UG/ML	1.91
41	173	1096	12:11	4	1.008	A BB	65067.	80.495 UG/ML	1.95
42	237	1061	11:48	4	0.976	A BB	17138.	78.989 UG/ML	1.91
43	211	1108	12:19	4	1.019	A VB	35264.	85.064 UG/ML	2.06
44	190	1236	13:45	4	1.137	A BB	16496.	84.279 UG/ML	2.04
45	58	1266	14:05	4	1.165	A BB	44262.	53.806 UG/ML	1.30
46	193	1270	14:08	4	1.168	A BV	27606.	80.734 UG/ML	1.95
47	139	1427	15:52	4	1.313	A BB	66594.	76.253 UG/ML	1.84
48	185	1399	15:34	5	0.902	A BB	8471.	79.616 UG/ML	1.92
49	185	1414	15:44	5	0.912	A BB	12567.	83.361 UG/ML	2.02
50	120	1412	15:42	5	0.910	A VB	58473.	80.139 UG/ML	1.94

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.303	1.00	79.82	50.00	2.539	1.590	1.60
8	1:37	1.00	0.426	1.00	80.61	50.00	2.523	1.565	1.61
9	1:45	1.00	0.462	1.00	86.36	50.00	1.401	0.811	1.73
10	2:01	1.00	0.535	1.00	75.72	50.00	0.963	0.636	1.51
11	2:25	1.00	0.641	1.00	84.19	50.00	0.878	0.521	1.68
12	2:50	1.00	0.750	1.00	84.32	50.00	1.869	1.108	1.69
13	3:22	1.00	0.888	1.00	80.38	50.00	0.967	0.602	1.61
14	4:30	1.00	1.188	1.00	80.44	50.00	3.111	1.934	1.61
15	4:30	1.00	1.191	1.00	81.34	50.00	0.900	0.553	1.63
16	4:34	1.00	1.209	1.00	78.50	50.00	1.288	0.821	1.57
17	4:40	1.00	1.232	1.00	85.54	50.00	3.852	2.252	1.71
18	4:32	1.00	1.200	1.00	78.85	50.00	3.407	2.160	1.58
19	5:01	1.00	0.851	1.00	81.59	50.00	0.523	0.320	1.63
20	7:54	1.00	1.340	1.00	64.53	50.00	1.658	1.285	1.29
21	6:08	1.00	1.042	1.00	86.89	50.00	0.447	0.257	1.74
22	6:06	1.00	1.036	1.00	79.59	50.00	0.315	0.198	1.59
23	7:25	1.00	1.258	1.00	22.98	50.00	0.060	0.131	0.46
24	6:54	1.00	1.170	1.00	84.39	50.00	0.360	0.213	1.69
25	7:12	1.00	1.223	1.00	80.88	50.00	0.401	0.248	1.62
26	7:34	1.00	0.822	1.00	79.46	50.00	0.688	0.433	1.59
27	7:46	1.00	0.843	1.00	78.76	50.00	0.069	0.044	1.58
28	8:12	1.00	0.890	1.00	80.51	50.00	0.314	0.195	1.61
29	8:09	1.00	0.885	1.00	92.77	50.00	2.445	1.318	1.86
30	8:34	1.00	0.930	1.00	86.36	50.00	0.716	0.415	1.73
31	8:56	1.00	0.970	1.00	85.22	50.00	0.337	0.197	1.70
32	9:33	1.00	1.036	1.00	80.58	50.00	0.789	0.489	1.61
33	9:49	1.00	1.066	1.00	73.12	50.00	1.224	0.837	1.46
34	10:00	1.00	1.086	1.00	82.50	50.00	1.594	0.966	1.65
35	9:57	1.00	1.081	1.00	83.40	50.00	0.495	0.297	1.67
36	10:27	1.00	1.135	1.00	85.79	50.00	0.610	0.356	1.72
37	11:24	1.00	0.943	1.00	84.99	50.00	0.275	0.162	1.70
38	11:30	1.00	0.951	1.00	79.75	50.00	0.506	0.317	1.59
39	11:19	1.00	0.937	1.00	78.90	50.00	0.142	0.090	1.58
40	11:53	1.00	0.983	1.00	79.14	50.00	0.964	0.609	1.58
41	12:11	1.00	1.008	1.00	80.50	50.00	0.482	0.299	1.61
42	11:48	1.00	0.976	1.00	78.99	50.00	0.127	0.080	1.58
43	12:19	1.00	1.019	1.00	85.06	50.00	0.261	0.154	1.70
44	13:45	1.00	1.137	1.00	84.28	50.00	0.122	0.073	1.69
45	14:05	1.00	1.165	1.00	53.81	50.00	0.328	0.305	1.08
46	14:08	1.00	1.168	1.00	80.73	50.00	0.205	0.127	1.61
47	15:52	1.00	1.313	1.00	76.25	50.00	0.493	0.323	1.53
48	15:34	1.00	0.902	1.00	79.62	50.00	0.097	0.061	1.59
49	15:44	1.00	0.912	1.00	83.36	50.00	0.144	0.087	1.67
50	15:42	1.00	0.910	1.00	80.14	50.00	0.671	0.419	1.60

Data: ST16980831A.TI

08/31/98 13:07:00

Sample: 80UG/ML AP9 062598F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Submitted by: QES

Instrument: F16

Analyst: DAT

Weight: 0.000

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from average of whole .RL

No Name

51	3,3'-DIMETHYLBENZIDINE	212 S5# 35	
52	KEPONE	272 S5# 37	
53	2-ACETYLAMINOFLUORENE	181 S5# 45	53-96-3
54	3-METHYLCHOLANTHRENE	268 S5# 85	56-49-5
55	7,12-DIMETHYLBENZANTHRACENE	256 S6# 20	75-97-6
56	HEXACHLOROPHENE	196 S6# 30	70-30-4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	212	1472	16:22	5	0.949	A BB	56612.	77.811 UG/ML	1.88
52	272	1458	16:13	5	0.940	qedt(2)	12434.	87.077 UG/ML	2.10
53	181	1516	16:52	5	0.977	A BB	61022.	81.053 UG/ML	1.96
54	268	1832	20:23	5	1.181	A BB	76474.	80.095 UG/ML	1.94
55	256	1731	19:15	6	0.971	A BB	66838.	79.991 UG/ML	1.93
56	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:22	1.00	0.949	1.00	77.81	50.00	0.650	0.418	1.56
52	16:13	1.00	0.940	1.00	87.08	50.00	0.143	0.082	1.74
53	16:52	1.00	0.977	1.00	81.05	50.00	0.701	0.432	1.62
54	20:23	1.00	1.181	1.00	80.10	50.00	0.878	0.548	1.60
55	19:15	1.00	0.971	1.00	79.99	50.00	0.976	0.610	1.60
56	21:11		0.992						

MANUAL EDIT CODES

1. PEAK NOT FOUND
2. POOR CHROMATOGRAPHY
3. WRONG ISOMER

ALL MANUAL EDITS MUST BE
INITIALED, DATED, AND CODED

RIC-MASS CHROMATOGRAM

08/31/98 13:07:00

SAMPLE: 80UG/ML AP9 062598F

CONDS.: INST. ID: F16

RANGE: G 1,2158 LABEL: N 0, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3

DATA: ST16980831A #1 SCANS 480 TO 850

CALI: ST16980831A #3

100.0 58 7528.

513 549 591 620 681 710 775 829 850 9:27 TIME

58.017
± 0.500

218112.

RIC

733

648

524

549

595

620

655

698

714

770

811

829

500

550

600

650

700

750

800

850

9:27 TIME

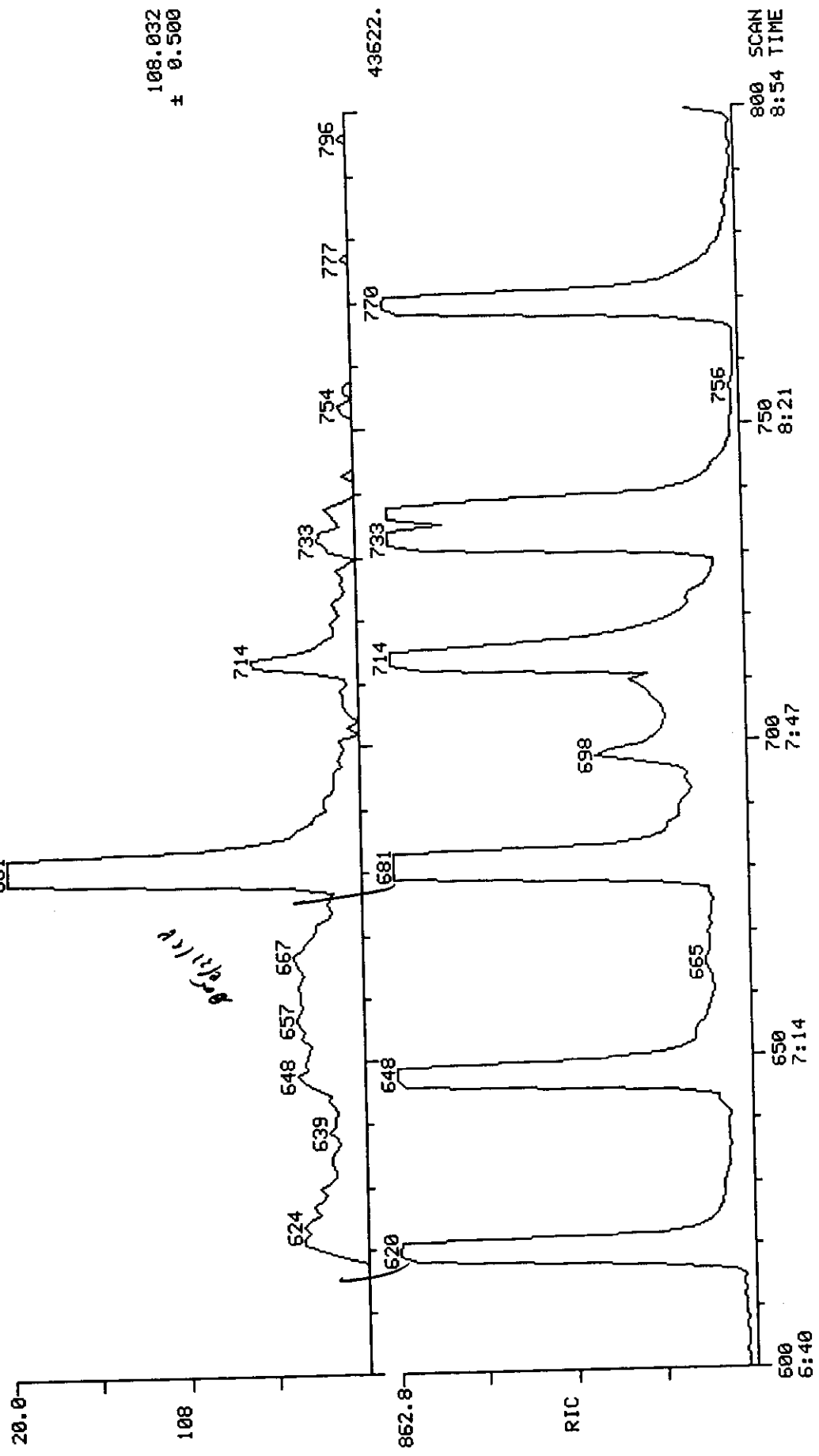
1020

RIC+MASS CHROMATOGRAM
08/31/98 13:07:00
SAMPLE: 80UG/ML AP9 062598F
CONDS.: INST. ID: F15
RANGE: G 1,2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

DATA: ST16980831A #1
CALI: ST16980831A #3

SCANS 600 TO 800

1011.



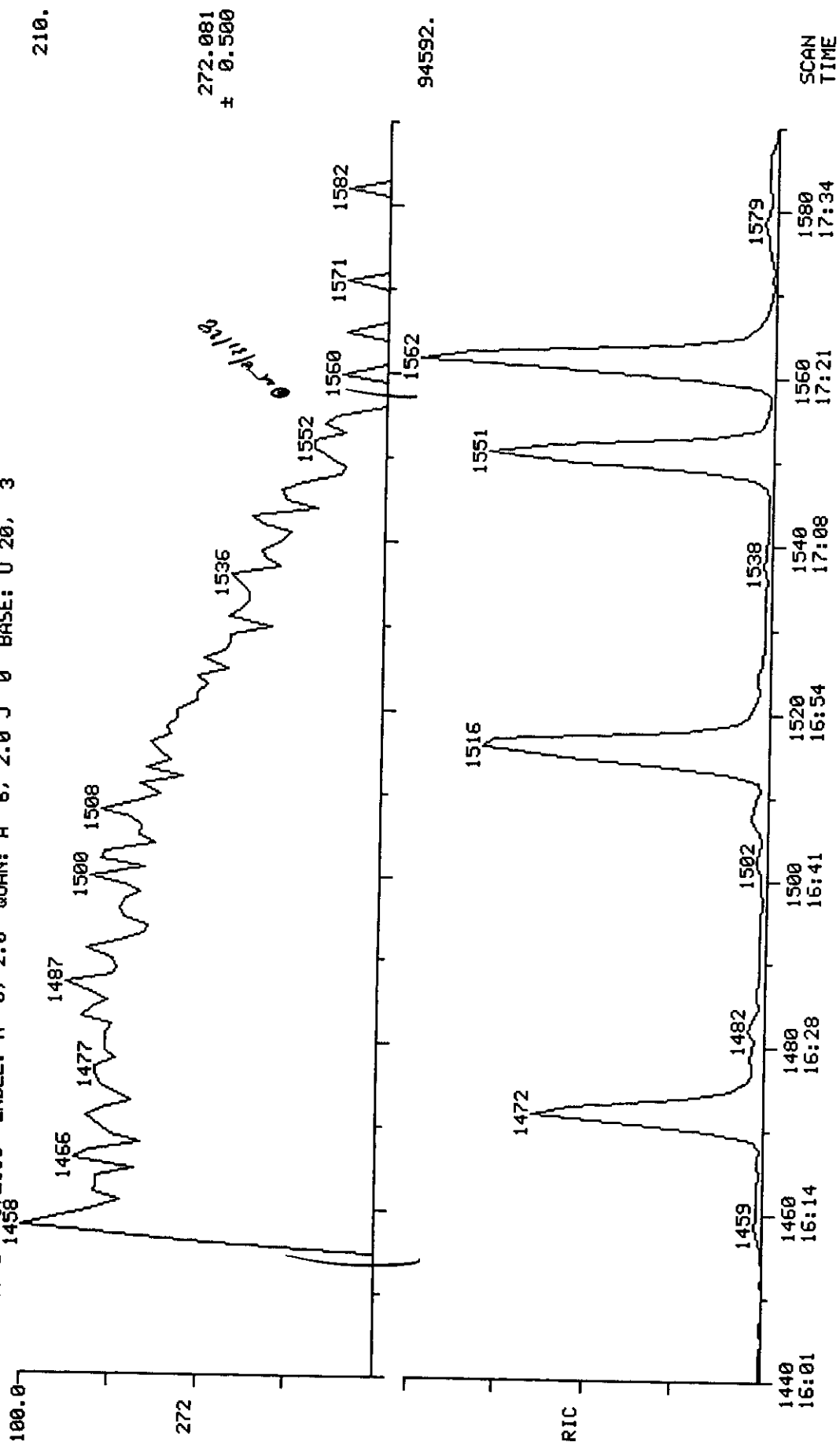
RIC+MASS CHROMATOGRAM

08/31/98 13:07:00 DATA: ST16980831A #1 SCANS 1440 TO 1590

SAMPLE: 80UG/ML AP9 062598F CALL: ST16980831A #3

CONDS.: INST. ID: F16

RANGE: G 1,2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3



QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

CONTIN. CALIBRATION: 80 UG/ML HSL STD ST16980902 09/02/98 14:53:00
INITIAL CALIBRATION: 10 UG/ML HSL STD ST16980827A 08/27/98 9:56:00
INITIAL CALIBRATION: 20 UG/ML HSL STD ST16980827B 08/27/98 10:21:00
INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

Library Entry Compound	Initial Calibration Response Factor			Continuing Calibration			
	Avg	Min	Max	Amount Calc Exp	% Diff	Max	
S1 15 C310 N-NITROSODIMETH	1.019		4.4	77.17	80.00	3.5	50.0
S1 100 C320 ANILINE	1.846		6.2	72.66	80.00	9.2	50.0
S1 105 C315 PHENOL	1.968		7.8	30.0 78.81	80.00	1.5	20.0
S1 110 C325 BIS(2-CHLOROETH	1.368		6.1	84.70	80.00	-5.9	50.0
S1 115 C330 2-CHLOROPHENOL	1.497		5.5	82.69	80.00	-3.4	50.0
S1 125 C335 1,3-DICHLOROBEN	1.586		4.5	81.00	80.00	-1.3	50.0
S1 130 C340 1,4-DICHLOROBEN	1.618		4.8	30.0 80.31	80.00	-0.4	20.0
S1 145 C345 BENZYL ALCOHOL	0.854		9.3	71.16	80.00	11.1	50.0
S1 150 C350 1,2-DICHLOROBEN	1.500		5.0	80.48	80.00	-0.6	50.0
S1 160 C355 2-METHYLPHENOL	1.174		7.4	74.75	80.00	6.6	50.0
S1 165 C360 2,2'-OXYBIS(1-C	2.539		3.9	77.25	80.00	3.4	50.0
S1 185 C365 4-METHYLPHENOL	1.276		9.0	71.19	80.00	11.0	50.0
S1 190 C370 N-NITROSO-DI-N-	0.906	0.050	5.1	75.97	80.00	5.0	50.0
S1 200 C375 HEXACHLOROETHAN	0.708		3.5	79.54	80.00	0.6	50.0
S2 10 C410 NITROBENZENE	0.445		7.2	84.18	80.00	-5.2	50.0
S2 20 C415 ISOPHORONE	0.742		5.5	80.59	80.00	-0.7	50.0
S2 25 C420 2-NITROPHENOL	0.213		7.9	30.0 82.30	80.00	-2.9	20.0
S2 30 C425 2,4-DIMETHYLPHE	0.330		16.9	91.51	80.00	-14.4	50.0
S2 45 C430 BENZOIC ACID	0.276		4.7	44.76	80.00	44.1	50.0
S2 35 C435 BIS(2-CHLOROETH	0.511		4.1	80.57	80.00	-0.7	50.0
S2 40 C440 2,4-DICHLOROPHE	0.308		6.6	30.0 80.28	80.00	-0.3	20.0
S2 55 C445 1,2,4-TRICHLORO	0.331		5.0	85.14	80.00	-6.4	50.0
S2 60 C450 NAPHTHALENE	1.022		6.6	85.54	80.00	-6.9	50.0
S2 80 C455 4-CHLOROANILINE	0.454		4.5	82.80	80.00	-3.5	50.0
S2 95 C460 HEXACHLOROBUTAD	0.168		5.1	30.0 86.60	80.00	-8.2	20.0
S2 130 C465 4-CHLORO-3-METH	0.338		9.0	30.0 80.18	80.00	-0.2	20.0
S2 145 C470 2-METHYLNAPHTHA	0.751		10.8	103.64	80.00	-29.5	50.0
S3 20 C510 HEXACHLOROCYCLO	0.372	0.050	10.1	83.99	80.00	-5.0	50.0
S3 25 C515 2,4,6-TRICHLORO	0.404		10.6	30.0 79.06	80.00	1.2	20.0
S3 30 C520 2,4,5-TRICHLORO	0.412		7.1	80.17	80.00	-0.2	50.0
S3 40 C525 2-CHLORONAPHTHA	1.193		6.6	85.88	80.00	-7.4	50.0
S3 45 C530 2-NITROANILINE	0.502		2.9	79.87	80.00	0.2	50.0
S3 55 C535 DIMETHYLPHTHALA	1.341		6.1	84.51	80.00	-5.6	50.0
S3 65 C540 ACENAPHTHYLENE	1.839		8.2	86.94	80.00	-8.7	50.0
S3 70 C543 2,6-DINITROTOLU	0.324		8.5	87.18	80.00	-9.0	50.0
S3 75 C545 3-NITROANILINE	0.383		1.4	81.46	80.00	-1.8	50.0
S3 80 C550 ACENAPHTHENE	1.158		6.9	30.0 86.26	80.00	-7.8	20.0
S3 85 C555 2,4-DINITROPHEN	0.189	0.050	10.3	68.85	80.00	13.9	50.0

QUANTERRA GC/MS
SEMIVOLATILE HSL CALIBRATION CHECK

CONTIN. CALIBRATION: 80 UG/ML HSL STD ST16980902 09/02/98 14:53:00
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 INITIAL CALIBRATION: 50 UG/ML HSL STD ST16980827C 08/27/98 10:51:00
 INITIAL CALIBRATION: 80 UG/ML HSL STD ST16980827 08/27/98 9:22:00
 INITIAL CALIBRATION: 120 UG/ML HSL STD ST16980827D 08/27/98 11:20:00
 INITIAL CALIBRATION: 160 UG/ML HSL STD ST16980827E 08/27/98 11:50:00

Library Entry Compound	Initial Calibration			Continuing Calibration		
	Response Factor	% RSD		Amount	% Diff	
	Avg	Min	Max	Calc	Exp	Max
S3 90 C565 DIBENZOFURAN	1.669	6.2		85.82	80.00	-7.3 50.0
S3 105 C570 2,4-DINITROTOLU	0.397	8.8		93.46	80.00	-16.8 50.0
S3 130 C580 DIETHYLPHTHALAT	1.369	7.7		86.28	80.00	-7.9 50.0
S3 140 C585 4-CHLOROPHENYL-	0.613	5.4		88.61	80.00	-10.8 50.0
S3 135 C590 FLUORENE	1.298	6.8		88.71	80.00	-10.9 50.0
S3 150 C595 4-NITROANALINE	0.307	8.4		78.22	80.00	2.2 50.0
S4 10 C610 4,6-DINITRO-2-M	0.132	7.6		82.12	80.00	-2.7 50.0
S4 15 C615 N-NITROSODIPHEN	0.551	4.2	30.0	79.08	80.00	1.2 20.0
S4 20 C620 AZOBENZENE	1.171	3.9		80.34	80.00	-0.4 50.0
S4 30 C625 4-BROMOPHENYL-P	0.223	3.9		87.69	80.00	-9.6 50.0
S4 40 C630 HEXACHLOROBENZE	0.260	6.7		87.45	80.00	-9.3 50.0
S4 50 C635 PENTACHLOROPHEN	0.155	5.9	30.0	75.84	80.00	5.2 20.0
S4 65 C640 PHENANTHRENE	1.033	5.2		84.48	80.00	-5.6 50.0
S4 70 C645 ANTHRACENE	0.987	11.0		85.24	80.00	-6.6 50.0
S4 80 C647 CARBAZOLE	0.764	10.3		84.72	80.00	-5.9 50.0
S4 85 C650 DI-N-BUTYLPHTHA	1.247	9.4		86.27	80.00	-7.8 50.0
S4 110 C655 FLUORANTHENE	0.900	13.5	30.0	84.07	80.00	-5.1 20.0
S5 10 C710 BENZIDINE	0.129	23.7		12.00	80.00	85.0* 50.0
S5 15 C715 PYRENE	1.323	6.5		82.90	80.00	-3.6 50.0
S5 40 C720 BUTYLBENZYLPHTH	0.685	7.7		82.18	80.00	-2.7 50.0
S5 55 C725 3,3'-DICHLOROB	0.408	5.7		76.65	80.00	4.2 50.0
S5 50 C730 BENZO(A)ANTHRAC	1.125	5.4		87.03	80.00	-8.8 50.0
S5 60 C740 CHRYSENE	1.014	6.7		82.83	80.00	-3.5 50.0
S5 65 C745 BIS(2-ETHYLHEXY	0.980	9.4		80.96	80.00	-1.2 50.0
S6 10 C760 DI-N-OCTYL PHTH	1.925	7.4	30.0	80.21	80.00	-0.3 20.0
S6 15 C765 BENZO(B)FLUORAN	1.444	5.0		77.01	80.00	3.7 50.0
S6 25 C770 BENZO(K)FLUORAN	1.159	9.8		86.88	80.00	-8.6 50.0
S6 35 C775 BENZO(A)PYRENE	1.182	5.3	30.0	82.06	80.00	-2.6 20.0
S6 55 C780 INDENO(1,2,3-CD	1.279	6.6		80.36	80.00	-0.4 50.0
S6 60 C785 DIBENZ(A,H)ANTH	1.267	8.1		81.54	80.00	-1.9 50.0
S6 65 C790 BENZO(G,H,I)PER	1.331	8.2		81.13	80.00	-1.4 50.0
S1 6 CS75 1,2-DICHLOROBNZ	0.920	6.5		79.99	80.00	0.0 50.0
S2 2 CS20 NITROBENZENE-D5	0.470	5.2		82.78	80.00	-3.5 50.0
S3 3 CS25 2-FLUOROBIPHENY	1.234	6.2		84.45	80.00	-5.6 50.0
S5 2 CS30 TERPHENYL-D14	0.995	5.3		84.17	80.00	-5.2 50.0
S1 3 CS45 PHENOL-D5	2.026	2.0		75.06	80.00	6.2 50.0
S1 2 CS50 2-FLUOROPHENOL	1.368	4.4		71.18	80.00	11.0 50.0
S1 5 CS70 2-CHLOROPHENOL-	1.482	4.1		76.79	80.00	4.0 50.0
S3 2 CS55 2,4,6-TRIBROMOP	0.236	6.9		88.86	80.00	-11.1 50.0

2.6% of the compounds exceed the %RSD value
 of 15.0. 2 of 78 compounds are out.

0 CCC cmpds out
 1 of nonCCC exceed 50 %D

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		ST16980902	ST16980827A	ST16980827B	ST16980827C	ST16980827	ST16980827D	ST16980827E
Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S1 15	80, 0.983	10, 0.952	20, 1.010	50, 1.016	80, 1.087	120, 1.008		
S1 15	160, 1.042							
S1 100	80, 1.677	10, 1.947	20, 1.988	50, 1.814	80, 1.876	120, 1.778		
S1 100	160, 1.674							
S1 105	80, 1.939	10, 1.699	20, 2.037	50, 2.035	80, 2.148	120, 1.907		
S1 105	160, 1.982							
S1 110	80, 1.448	10, 1.336	20, 1.465	50, 1.438	80, 1.414	120, 1.291		
S1 110	160, 1.261							
S1 115	80, 1.547	10, 1.386	20, 1.569	50, 1.522	80, 1.603	120, 1.450		
S1 115	160, 1.451							
S1 125	80, 1.606	10, 1.515	20, 1.668	50, 1.618	80, 1.659	120, 1.546		
S1 125	160, 1.510							
S1 130	80, 1.624	10, 1.580	20, 1.695	50, 1.666	80, 1.697	120, 1.549		
S1 130	160, 1.518							
S1 145	80, 0.760	10, 0.702	20, 0.851	50, 0.872	80, 0.913	120, 0.866		
S1 145	160, 0.922							
S1 150	80, 1.509	10, 1.475	20, 1.606	50, 1.482	80, 1.573	120, 1.454		
S1 150	160, 1.409							
S1 160	80, 1.097	10, 0.998	20, 1.206	50, 1.221	80, 1.209	120, 1.199		
S1 160	160, 1.213							
S1 165	80, 2.452	10, 2.393	20, 2.676	50, 2.597	80, 2.582	120, 2.502		
S1 165	160, 2.486							
S1 185	80, 1.135	10, 1.049	20, 1.298	50, 1.355	80, 1.287	120, 1.316		
S1 185	160, 1.351							
S1 190	80, 0.860	10, 0.819	20, 0.934	50, 0.938	80, 0.940	120, 0.913		
S1 190	160, 0.890							
S1 200	80, 0.704	10, 0.665	20, 0.740	50, 0.713	80, 0.720	120, 0.706		
S1 200	160, 0.706							
S2 10	80, 0.468	10, 0.423	20, 0.477	50, 0.455	80, 0.486	120, 0.419		
S2 10	160, 0.410							
S2 20	80, 0.747	10, 0.685	20, 0.778	50, 0.774	80, 0.778	120, 0.726		
S2 20	160, 0.708							

S2 25 80, 0.219	10, 0.182	20, 0.212	50, 0.218	80, 0.232	120, 0.219
S2 25 160, 0.217					
S2 30 80, 0.377	10, 0.234	20, 0.309	50, 0.334	80, 0.400	120, 0.349
S2 30 160, 0.353					
S2 45 80, 0.154		20, 0.257	50, 0.279	80, 0.270	120, 0.280
S2 45 160, 0.292					
S2 35 80, 0.514	10, 0.481	20, 0.529	50, 0.517	80, 0.538	120, 0.502
S2 35 160, 0.498					
S2 40 80, 0.309	10, 0.270	20, 0.313	50, 0.314	80, 0.332	120, 0.311
S2 40 160, 0.306					
S2 55 80, 0.352	10, 0.319	20, 0.350	50, 0.334	80, 0.350	120, 0.322
S2 55 160, 0.310					
S2 60 80, 1.093	10, 1.008	20, 1.090	50, 1.038	80, 1.102	120, 0.960
S2 60 160, 0.935					
S2 80 80, 0.470	10, 0.419	20, 0.466	50, 0.454	80, 0.480	120, 0.449
S2 80 160, 0.455					
S2 95 80, 0.182	10, 0.160	20, 0.178	50, 0.170	80, 0.177	120, 0.167
S2 95 160, 0.157					
S2 130 80, 0.339	10, 0.279	20, 0.337	50, 0.353	80, 0.365	120, 0.347
S2 130 160, 0.346					
S2 145 80, 0.973	10, 0.773	20, 0.840	50, 0.827	80, 0.757	120, 0.671
S2 145 160, 0.639					
S3 20 80, 0.390	10, 0.329	20, 0.387	50, 0.376	80, 0.428	120, 0.379
S3 20 160, 0.330					
S3 25 80, 0.399	10, 0.327	20, 0.389	50, 0.405	80, 0.435	120, 0.417
S3 25 160, 0.448					
S3 30 80, 0.413	10, 0.397	20, 0.437	50, 0.429	80, 0.443	120, 0.401
S3 30 160, 0.366					
S3 40 80, 1.280	10, 1.172	20, 1.275	50, 1.208	80, 1.283	120, 1.128
S3 40 160, 1.089					
S3 45 80, 0.501		20, 0.491	50, 0.510	80, 0.523	120, 0.487
S3 45 160, 0.497					
S3 55 80, 1.417	10, 1.257	20, 1.423	50, 1.392	80, 1.426	120, 1.297
S3 55 160, 1.251					
S3 65 80, 1.998	10, 1.751	20, 1.959	50, 1.896	80, 2.047	120, 1.707
S3 65 160, 1.671					
S3 70 80, 0.353	10, 0.274	20, 0.339	50, 0.341	80, 0.351	120, 0.321
S3 70 160, 0.317					
S3 75 80, 0.390		20, 0.382	50, 0.392	80, 0.382	120, 0.379
S3 75 160, 0.379					
S3 80 80, 1.249	10, 1.140	20, 1.227	50, 1.182	80, 1.261	120, 1.075

S3 80 160, 1.066

S3 85 80, 0.163

S3 85 160, 0.196

S3 95 80, 0.131

S3 95 160, 0.169

20, 0.156 50, 0.190 80, 0.202 120, 0.203

20, 0.164 50, 0.178 80, 0.184 120, 0.168

QUANTERRA GC/MS
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ST16980902 ST16980827A ST16980827B ST16980827C ST16980827 ST16980827D
 ST16980827E

Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S3 90	80,	1.790	10,	1.617	20,	1.782	50,	1.736	80,	1.762	120,	1.556
S3 90	160,	1.561										
S3 105	80,	0.464	10,	0.339	20,	0.412	50,	0.420	80,	0.437	120,	0.396
S3 105	160,	0.378										
S3 130	80,	1.476	10,	1.300	20,	1.462	50,	1.452	80,	1.462	120,	1.328
S3 130	160,	1.209										
S3 140	80,	0.678	10,	0.597	20,	0.647	50,	0.631	80,	0.646	120,	0.579
S3 140	160,	0.575										
S3 135	80,	1.439	10,	1.251	20,	1.398	50,	1.340	80,	1.386	120,	1.224
S3 135	160,	1.188										
S3 150	80,	0.300			20,	0.326	50,	0.320	80,	0.306	120,	0.263
S3 150	160,	0.321										
S4 10	80,	0.135			20,	0.121	50,	0.139	80,	0.145	120,	0.124
S4 10	160,	0.130										
S4 15	80,	0.544	10,	0.568	20,	0.582	50,	0.562	80,	0.539	120,	0.530
S4 15	160,	0.523										
S4 20	80,	1.176	10,	1.150	20,	1.222	50,	1.186	80,	1.212	120,	1.098
S4 20	160,	1.158										
S4 30	80,	0.244	10,	0.224	20,	0.231	50,	0.223	80,	0.232	120,	0.215
S4 30	160,	0.210										
S4 40	80,	0.284	10,	0.273	20,	0.281	50,	0.255	80,	0.268	120,	0.238
S4 40	160,	0.242										
S4 50	80,	0.147			20,	0.148	50,	0.156	80,	0.170	120,	0.155
S4 50	160,	0.147										
S4 65	80,	1.090	10,	1.017	20,	1.081	50,	1.044	80,	1.096	120,	0.948
S4 65	160,	1.010										
S4 70	80,	1.051	10,	1.019	20,	1.100	50,	1.026	80,	1.059	120,	0.908
S4 70	160,	0.809										
S4 80	80,	0.809	10,	0.914	20,	0.763	50,	0.729	80,	0.769	120,	0.707
S4 80	160,	0.701										
S4 85	80,	1.345	10,	1.233	20,	1.366	50,	1.332	80,	1.333	120,	1.137
S4 85	160,	1.080										

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S4	110	80, 0.946	10, 1.013	20, 1.008	50, 0.925	80, 0.950	120, 0.788
S4	110	160, 0.715					
S5	10	80, 0.019		20, 0.155	50, 0.143	80, 0.077	120, 0.141
S5	10	160, 0.131					
S5	15	80, 1.370	10, 1.209	20, 1.310	50, 1.295	80, 1.468	120, 1.295
S5	15	160, 1.358					
S5	40	80, 0.703	10, 0.587	20, 0.673	50, 0.692	80, 0.722	120, 0.700
S5	40	160, 0.734					
S5	55	80, 0.391		20, 0.441	50, 0.421	80, 0.383	120, 0.405
S5	55	160, 0.391					
S5	50	80, 1.224	10, 1.058	20, 1.195	50, 1.116	80, 1.203	120, 1.086
S5	50	160, 1.092					
S5	60	80, 1.050	10, 1.034	20, 1.068	50, 1.005	80, 1.102	120, 0.959
S5	60	160, 0.919					
S5	65	80, 0.992	10, 0.812	20, 0.978	50, 0.986	80, 1.027	120, 0.987
S5	65	160, 1.089					
S6	10	80, 1.930	10, 1.637	20, 1.959	50, 1.985	80, 1.977	120, 1.967
S6	10	160, 2.023					
S6	15	80, 1.390	10, 1.322	20, 1.536	50, 1.448	80, 1.453	120, 1.490
S6	15	160, 1.412					
S6	25	80, 1.259	10, 1.185	20, 1.223	50, 1.171	80, 1.264	120, 1.171
S6	25	160, 0.940					
S6	35	80, 1.212	10, 1.168	20, 1.257	50, 1.206	80, 1.229	120, 1.147
S6	35	160, 1.084					
S6	55	80, 1.285	10, 1.253	20, 1.355	50, 1.312	80, 1.368	120, 1.241
S6	55	160, 1.144					
S6	60	80, 1.292	10, 1.254	20, 1.386	50, 1.288	80, 1.360	120, 1.212
S6	60	160, 1.105					
S6	65	80, 1.350	10, 1.339	20, 1.436	50, 1.356	80, 1.426	120, 1.289
S6	65	160, 1.139					
S1	6	80, 0.920	10, 0.832	20, 0.999	50, 0.946	80, 0.959	120, 0.902
S1	6	160, 0.882					
S2	2	80, 0.486	10, 0.446	20, 0.494	50, 0.469	80, 0.504	120, 0.452
S2	2	160, 0.452					
S3	3	80, 1.303	10, 1.252	20, 1.315	50, 1.253	80, 1.299	120, 1.171
S3	3	160, 1.116					
S5	2	80, 1.047	10, 0.932	20, 1.002	50, 0.976	80, 1.082	120, 0.960
S5	2	160, 1.019					
S1	3	80, 1.900		20, 2.057	50, 2.059	80, 2.046	120, 1.995
S1	3	160, 1.971					
S1	2	80, 1.217		20, 1.291	50, 1.332	80, 1.448	120, 1.376

S1 2 160, 1.394

S1 5 80, 1.422

S1 5 160, 1.407

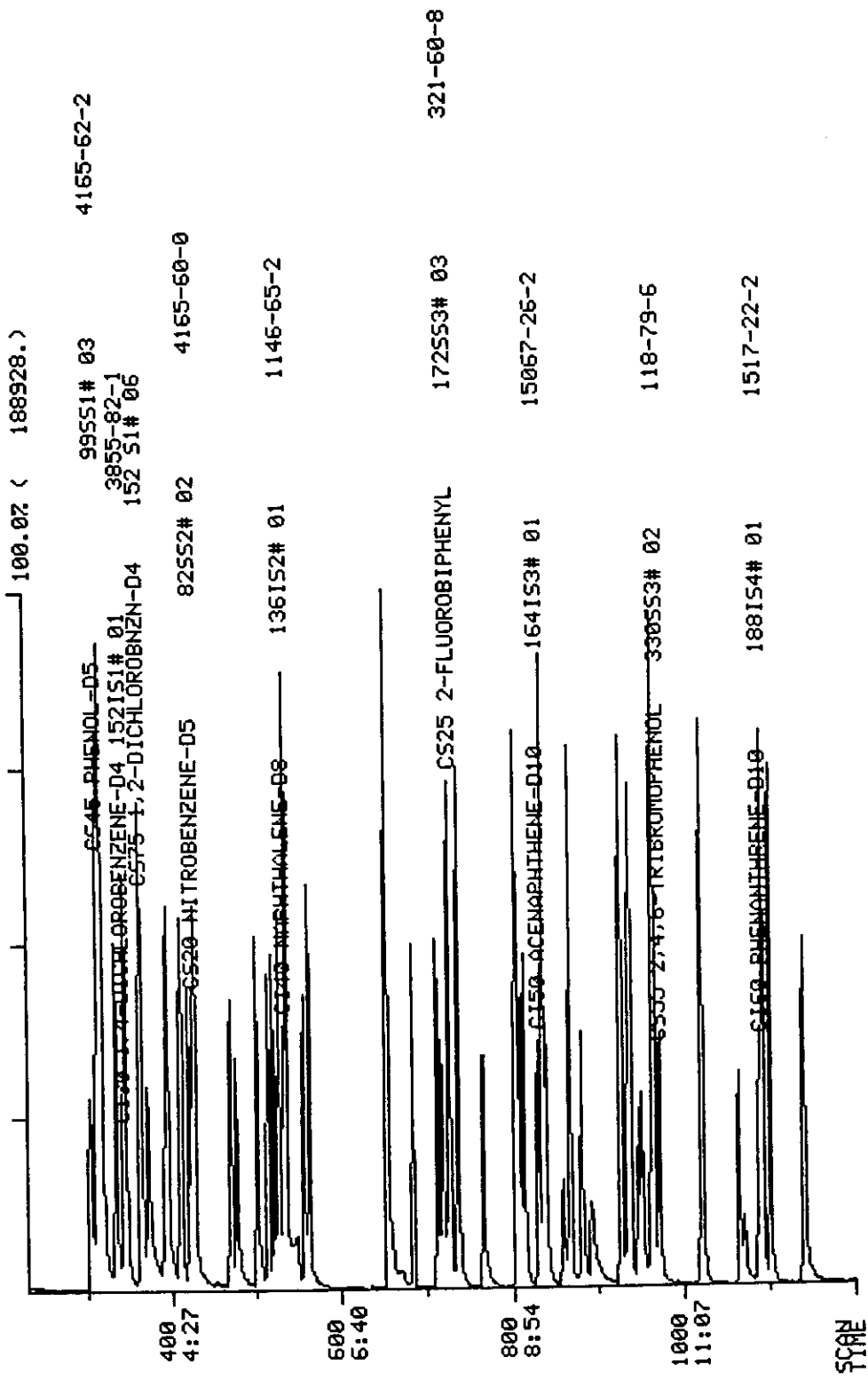
20, 1.561 50, 1.501 80, 1.503 120, 1.437

S3 2 80, 0.262

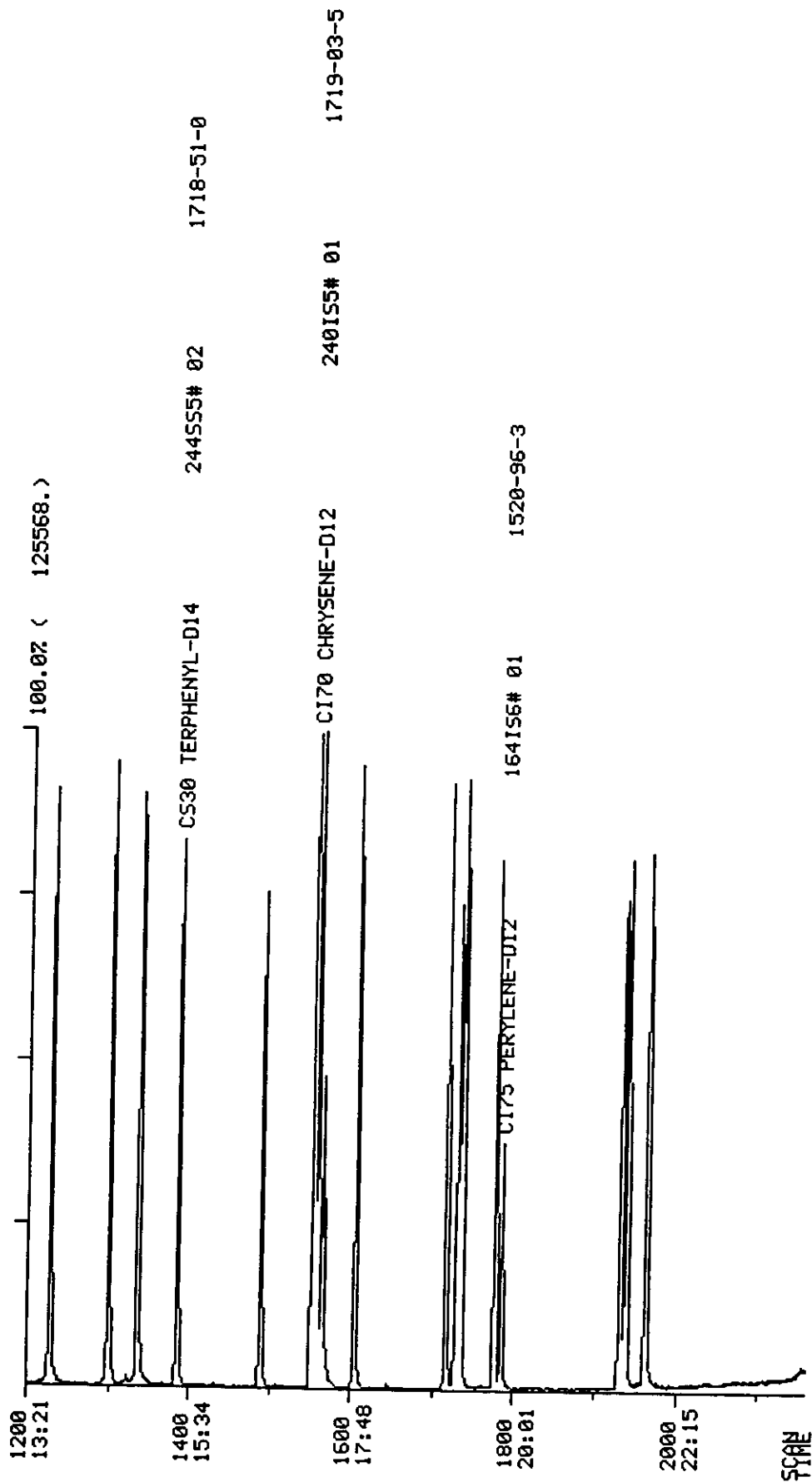
S3 2 160, 0.217

20, 0.261 50, 0.239 80, 0.233 120, 0.228

DATA FROM FILE: ST16980902 SCANS 230 TO 1200 ACQUIRED: 09/02/98 14:53:00
 CALI: ST16980902 #3
 SAMPLE: SST080 80UG/ML CALI III 082198A
 CONDS.: INST. ID: F16



DATA FROM FILE: ST16980902 SCANS 1200 TO 2158 ACQUIRED: 09/02/98 14:53:00
 SAMPLE: SST0080 80UG/ML CALI III 082198A
 COND.: INST. ID: F16



Data: ST16980902.T1

09/02/98 14:53:00

Sample: SST0080 80UG/ML CALI III 082198A

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from average of whole .RL

No	Name		
1	C130 1,4-DICHLOROBENZENE-D4	1521S1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	1361S2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	1641S3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	1881S4# 01	1517-22-2
5	C170 CHRYSENE-D12	2401S5# 01	1719-03-5
6	C175 PERYLENE-D12	1641S6# 01	1520-96-3
7	CS20 NITROBENZENE-D5	82SS2# 02	4165-60-0
8	CS25 2-FLUOROBIPHENYL	172SS3# 03	321-60-8
9	CS30 TERPHENYL-D14	244SS5# 02	1718-51-0
10	CS45 PHENOL-D5	99SS1# 03	4165-62-2
11	CS50 2-FLUOROPHENOL	112SS1# 02	367-12-4
12	CS55 2,4,6-TRIBROMOPHENOL	330SS3# 02	118-79-6
13	CS70 2-CHLOROPHENOL-D4	132 S1# 05	
14	CS75 1,2-DICHLOROBENZENE-D4	152 S1# 06	
15	HEXACHLOROBENZENE-C13		
16	C310 N-NITROSODIMETHYLAMINE	74 S1# 15	62-75-9
17	C320 ANILINE	93 S1#100	62-53-3
18	C315 PHENOL	94 S1#105CC	108-95-2
19	C325 BIS(2-CHLOROETHYL)ETHER	93 S1#110	111-44-4
20	C330 2-CHLOROPHENOL	128 S2#115	95-57-8
21	C335 1,3-DICHLOROBENZENE	146 S1#125	541-73-1
22	C340 1,4-DICHLOROBENZENE	146 S1#130CC	106-46-7
23	C345 BENZYL ALCOHOL	108 S1#145	100-51-6
24	C350 1,2-DICHLOROBENZENE	146 S1#150	95-50-1
25	C355 2-METHYLPHENOL	108 S1#160	95-48-7
26	C360 2,2'-OXYBIS(1-CLPROPAN)	45 S1#165	108-60-1
27	C365 4-METHYLPHENOL	108 S1#185	106-44-5
28	C370 N-NITROSO-DI-N-PROPYLAM	70 S1#190SP	621-64-7
29	C375 HEXACHLOROETHANE	117 S1#200	67-72-1
30	C410 NITROBENZENE	77 S2# 10	98-95-3
31	C415 ISOPHORONE	82 S2# 20	75-59-1
32	C420 2-NITROPHENOL	139 S2# 25CC	88-75-5
33	C425 2,4-DIMETHYLPHENOL	107 S2# 30	105-67-9
34	C435 BIS(2-CHLOROETHOXY)METH	93 S2# 35	111-91-1
35	C440 2,4-DICHLOROPHENOL	162 S2# 40	120-83-2
36	C430 BENZOIC ACID	122 S2# 45	65-85-0
37	C445 1,2,4-TRICHLOROBENZENE	180 S2# 55	120-82-1
38	C450 NAPHTHALENE	128 S2# 60	91-20-3
39	C455 4-CHLOROANILINE	127 S2# 80	106-47-8
40	C460 HEXACHLOROBUTADIENE	225 S2# 95CC	87-68-3
41	C465 4-CHLORO-3-METHYLPHENO	107 S2#130CC	59-50-7
42	C470 2-METHYLNAPHTHALENE	142 S2#145	91-57-6
43	C510 HEXACHLOROCYCLOPENTADI	237 S3# 20	77-47-4
44	C515 2,4,6-TRICHLOROPHENOL	196 S3# 25CC	88-06-2
45	C520 2,4,5-TRICHLOROPHENOL	196 S3# 30	95-95-4
46	C525 2-CHLORONAPHTHALENE	162 S3# 40	91-58-7
47	C530 2-NITROANILINE	65 S3# 45	88-74-4

No	Name		
48	C535 DIMETHYLPHTHALATE	163 S3# 55	131-11-3
49	C540 ACENAPHTHYLENE	152 S3# 65	208-96-8
50	C543 2,6-DINITROTOLUENE	165 S3# 70	606-20-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	340	3:47	1	1.000	A BB	23319.	40.000 UG/ML	0.61
2	136	531	5:54	2	1.000	A BB	79260.	40.000 UG/ML	0.61
3	164	829	9:13	3	1.000	A BB	43605.	40.000 UG/ML	0.61
4	188	1087	12:05	4	1.000	A BV	76218.	40.000 UG/ML	0.61
5	240	1553	17:16	5	1.000	A BB	51424.	40.000 UG/ML	0.61
6	264	1784	19:51	6	1.000	A BB	44306.	40.000 UG/ML	0.61
7	82	423	4:42	2	0.797	A BB	77010.	82.769 UG/ML	1.27
8	172	724	8:03	3	0.873	A BB	113630.	84.449 UG/ML	1.30
9	244	1384	15:24	5	0.891	A BB	107689.	84.168 UG/ML	1.29
10	99	310	3:27	1	0.912	A BB	88631.	75.060 UG/ML	1.15
11	112	197	2:11	1	0.579	A BB	56775.	71.178 UG/ML	1.09
12	330	970	10:47	3	1.170	A BB	22822.	88.836 UG/ML	1.36
13	132	313	3:29	1	0.921	A BB	66336.	76.805 UG/ML	1.18
14	152	360	4:00	1	1.059	A BB	42899.	79.981 UG/ML	1.23
15	NOT FOUND								
16	74	104	1:09	1	0.306	A BB	45851.	77.168 UG/ML	1.18
17	93	302	3:22	1	0.888	A BV	78198.	72.648 UG/ML	1.11
18	94	311	3:28	1	0.915	A VB	90423.	78.820 UG/ML	1.21
19	93	316	3:31	1	0.929	A VB	67521.	84.679 UG/ML	1.30
20	128	315	3:30	1	0.926	A BB	72156.	82.688 UG/ML	1.27
21	146	332	3:42	1	0.976	A BV	74894.	81.001 UG/ML	1.24
22	146	343	3:49	1	1.009	A VB	75730.	80.312 UG/ML	1.23
23	108	370	4:07	1	1.088	A BB	35440.	71.152 UG/ML	1.09
24	146	362	4:02	1	1.065	A BB	70366.	80.476 UG/ML	1.24
25	108	392	4:22	1	1.153	A BB	51172.	74.726 UG/ML	1.15
26	45	390	4:20	1	1.147	A BB	114359.	77.250 UG/ML	1.19
27	108	418	4:39	1	1.229	A BB	52957.	71.200 UG/ML	1.09
28	70	411	4:34	1	1.209	A BV	40110.	75.951 UG/ML	1.17
29	117	408	4:32	1	1.200	A BB	32844.	79.548 UG/ML	1.22
30	77	426	4:44	2	0.802	A VB	74224.	84.170 UG/ML	1.29
31	82	468	5:12	2	0.881	A BB	118401.	80.599 UG/ML	1.24
32	139	475	5:17	2	0.895	A VB	34790.	82.243 UG/ML	1.26
33	107	499	5:33	2	0.940	A BB	59805.	91.475 UG/ML	1.40
34	93	512	5:42	2	0.964	A BB	81550.	80.594 UG/ML	1.24
35	162	518	5:46	2	0.976	A BB	48941.	80.305 UG/ML	1.23
36	122	546	6:04	2	1.028	qedt	24441.	44.726 UG/ML	0.69
37	180	525	5:50	2	0.989	A BB	55810.	85.111 UG/ML	1.31
38	128	534	5:56	2	1.006	A BB	173260.	85.538 UG/ML	1.31
39	127	554	6:10	2	1.043	A BB	74460.	82.809 UG/ML	1.27
40	225	561	6:14	2	1.056	A BB	28856.	86.622 UG/ML	1.33
41	107	651	7:14	2	1.226	A BB	53671.	80.198 UG/ML	1.23
42	142	652	7:15	2	1.228	A BV	154259.	103.624 UG/ML	1.59
43	237	681	7:34	3	0.821	A BB	34014.	84.003 UG/ML	1.29
44	196	709	7:53	3	0.855	A BV	34776.	79.050 UG/ML	1.21
45	196	715	7:57	3	0.862	A VB	36021.	80.179 UG/ML	1.23
46	162	734	8:10	3	0.885	A BB	111646.	85.891 UG/ML	1.32
47	65	764	8:30	3	0.922	A BB	43674.	79.829 UG/ML	1.23
48	163	807	8:59	3	0.973	A BB	123549.	84.524 UG/ML	1.30
49	152	803	8:56	3	0.969	A BB	174241.	86.940 UG/ML	1.33
50	165	813	9:03	3	0.981	A BB	30775.	87.184 UG/ML	1.34

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:42	1.00	0.797	1.00	82.77	50.00	0.777	0.470	1.66
8	8:03	1.00	0.873	1.00	84.45	50.00	2.085	1.234	1.69
9	15:24	1.00	0.891	1.00	84.17	50.00	1.675	0.995	1.68
10	3:27	1.00	0.912	1.00	75.06	50.00	3.041	2.025	1.50
11	2:11	1.00	0.579	1.00	71.18	50.00	1.948	1.368	1.42
12	10:47	1.00	1.170	1.00	88.84	50.00	0.419	0.236	1.78
13	3:29	1.00	0.921	1.00	76.81	50.00	2.276	1.482	1.54
14	4:00	1.00	1.059	1.00	79.98	50.00	1.472	0.920	1.60
15	12:39		0.941						
16	1:09	1.00	0.306	1.00	77.17	50.00	1.573	1.019	1.54
17	3:22	1.00	0.888	1.00	72.65	50.00	2.683	1.846	1.45
18	3:28	1.00	0.915	1.00	78.82	50.00	3.102	1.968	1.58
19	3:31	1.00	0.929	1.00	84.68	50.00	2.316	1.368	1.69
20	3:30	1.00	0.926	1.00	82.69	50.00	2.475	1.497	1.65
21	3:42	1.00	0.976	1.00	81.00	50.00	2.569	1.586	1.62
22	3:49	1.00	1.009	1.00	80.31	50.00	2.598	1.617	1.61
23	4:07	1.00	1.088	1.00	71.15	50.00	1.216	0.854	1.42
24	4:02	1.00	1.065	1.00	80.48	50.00	2.414	1.500	1.61
25	4:22	1.00	1.153	1.00	74.73	50.00	1.756	1.175	1.49
26	4:20	1.00	1.147	1.00	77.25	50.00	3.923	2.539	1.55
27	4:39	1.00	1.229	1.00	71.20	50.00	1.817	1.276	1.42
28	4:34	1.00	1.209	1.00	75.95	50.00	1.376	0.906	1.52
29	4:32	1.00	1.200	1.00	79.55	50.00	1.127	0.708	1.59
30	4:44	1.00	0.802	1.00	84.17	50.00	0.749	0.445	1.68
31	5:12	1.00	0.881	1.00	80.60	50.00	1.195	0.741	1.61
32	5:17	1.00	0.895	1.00	82.24	50.00	0.351	0.213	1.64
33	5:33	1.00	0.940	1.00	91.48	50.00	0.604	0.330	1.83
34	5:42	1.00	0.964	1.00	80.59	50.00	0.823	0.511	1.61
35	5:46	1.00	0.976	1.00	80.31	50.00	0.494	0.308	1.61
36	6:04	1.00	1.028	1.00	44.73	50.00	0.247	0.276	0.89
37	5:50	1.00	0.989	1.00	85.11	50.00	0.563	0.331	1.70
38	5:56	1.00	1.006	1.00	85.54	50.00	1.749	1.022	1.71
39	6:10	1.00	1.043	1.00	82.81	50.00	0.752	0.454	1.66
40	6:14	1.00	1.056	1.00	86.62	50.00	0.291	0.168	1.73
41	7:14	1.00	1.226	1.00	80.20	50.00	0.542	0.338	1.60
42	7:15	1.00	1.228	1.00	103.62	50.00	1.557	0.751	2.07
43	7:34	1.00	0.821	1.00	84.00	50.00	0.624	0.371	1.68
44	7:53	1.00	0.855	1.00	79.05	50.00	0.638	0.404	1.58
45	7:57	1.00	0.862	1.00	80.18	50.00	0.661	0.412	1.60
46	8:10	1.00	0.885	1.00	85.89	50.00	2.048	1.192	1.72
47	8:30	1.00	0.922	1.00	79.83	50.00	0.801	0.502	1.60
48	8:59	1.00	0.973	1.00	84.52	50.00	2.267	1.341	1.69
49	8:56	1.00	0.969	1.00	86.94	50.00	3.197	1.838	1.74
50	9:03	1.00	0.981	1.00	87.18	50.00	0.565	0.324	1.74

Quantitation Report File: ST16980902

Data: ST16980902.T1

09/02/98 14:53:00

Sample: SST080 80UG/ML CALI III 082198A

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name		
51	C545 3-NITROANILINE	138 S3# 75	99-09-2
52	C550 ACENAPHTHENE	153 S3# 80CC	83-32-9
53	C555 2,4-DINITROPHENOL	184 S3# 85SP	51-28-5
54	C565 DIBENZOFURAN	168 S3# 90	132-64-9
55	C560 4-NITROPHENOL	109 S3# 95SP	100-02-7
56	C570 2,4-DINITROTOLUENE	165 S3#105	121-14-2
57	C580 DIETHYLPHTHALATE	149 S3#130	84-66-2
58	C590 FLUORENE	166 S3#135	86-73-7
59	C585 4-CHLOROPHENYL-PHENYLE	204 S3#140	7005-72-3
60	C595 4-NITROANALINE	138 S3#150	100-01-6
61	C610 4,6-DINITRO-2-METHYLPH	198 S4# 10	534-52-1
62	C615 N-NITROSODIPHENYLAMINE	169 S4# 15CC	87-30-6
63	C620 AZOBENZENE	77 S4# 20	103-33-3
64	C625 4-BROMOPHENYL-PHENYLET	248 S4# 30	101-55-3
65	C630 HEXACHLOROBENZENE	284 S4# 40	118-74-1
66	C635 PENTACHLOROPHENOL	266 S4# 50	87-86-5
67	C640 PHENANTHRENE	178 S4# 65	85-01-8
68	C645 ANTHRACENE	178 S4# 70	120-12-7
69	C647 CARBAZOLE	167 S4# 80	86-74-8
70	C650 DI-N-BUTYLPHTHALATE	149 S4# 85	84-74-2
71	C655 FLUORANTHENE	202 S4#110CC	206-44-0
72	C710 BENZIDINE	184 S5# 10	92-81-5
73	C715 PYRENE	202 S5# 15	129-00-0
74	C720 BUTYLBENZYLPHTHALATE	149 S5# 40	85-68-7
75	C730 BENZO(A)ANTHRACENE	228 S5# 50	56-55-3
76	C725 3,3'-DICHLOROBENZIDINE	252 S5# 55	91-94-1
77	C740 CHRYSENE	228 S5# 60	218-01-9
78	C745 BIS(2-ETHYLHEXYL)PHTHA	149 S5# 65	117-81-7
79	C760 DI-N-OCTYL PHTHALATE	149 S6# 10CC	117-84-0
80	C765 BENZO(B)FLUORANTHENE	252 S6# 15	205-99-2
81	C770 BENZO(K)FLUORANTHENE	252 S6# 25	207-08-9
82	C775 BENZO(A)PYRENE	252 S6# 35	50-32-8
83	C780 INDENO(1,2,3-CD)PYRENE	276 S6# 55	193-39-5
84	C785 DIBENZ(A,H)ANTHRACENE	278 S6# 60	53-70-3
85	C790 BENZO(G,H,I)PERYLENE	276 S6# 65	191-24-2

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	138	838	9:19	3	1.011	A BB	33994.	81.477 UG/ML	1.25
52	153	835	9:17	3	1.007	A BV	108934.	86.246 UG/ML	1.32
53	184	858	9:33	3	1.035	A BB	14215.	68.887 UG/ML	1.06
54	168	867	9:39	3	1.046	A VB	156137.	85.811 UG/ML	1.32
55	109	892	9:55	3	1.076	A BB	11396.	60.551 UG/ML	0.93
56	165	881	9:48	3	1.063	A BB	40446.	93.400 UG/ML	1.43
57	149	935	10:24	3	1.128	A BB	128756.	86.290 UG/ML	1.32
58	166	926	10:18	3	1.117	A BB	125506.	88.713 UG/ML	1.36

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	204	938	10:26	3	1.131	A BB	59164.	88.575 UG/ML	1.36
60	138	947	10:32	3	1.142	A BB	26197.	78.275 UG/ML	1.20
61	198	951	10:35	4	0.875	A BB	20624.	81.985 UG/ML	1.26
62	169	963	10:43	4	0.886	A BV	82971.	79.067 UG/ML	1.21
63	77	965	10:44	4	0.888	A BB	179267.	80.357 UG/ML	1.23
64	248	1021	11:21	4	0.939	A BB	37178.	87.718 UG/ML	1.35
65	284	1020	11:21	4	0.938	A BB	43240.	87.455 UG/ML	1.34
66	266	1063	11:49	4	0.978	A BB	22429.	75.922 UG/ML	1.17
67	178	1092	12:09	4	1.005	A BV	166229.	84.485 UG/ML	1.30
68	178	1101	12:15	4	1.013	A VB	160282.	85.229 UG/ML	1.31
69	167	1139	12:40	4	1.048	A BB	123311.	84.715 UG/ML	1.30
70	149	1227	13:39	4	1.129	A BB	204955.	86.287 UG/ML	1.32
71	202	1299	14:27	4	1.195	A BB	144144.	84.053 UG/ML	1.29
72	184	1346	14:58	5	0.867	A BB	1996.	11.979 UG/ML	0.18
73	202	1335	14:51	5	0.860	A BB	140939.	82.890 UG/ML	1.27
74	149	1488	16:33	5	0.958	A BV	72332.	82.180 UG/ML	1.26
75	228	1552	17:16	5	0.999	A BV	125866.	87.038 UG/ML	1.34
76	252	1563	17:23	5	1.006	A BB	40227.	76.690 UG/ML	1.18
77	228	1558	17:20	5	1.003	A VB	108028.	82.832 UG/ML	1.27
78	149	1604	17:50	5	1.033	A BV	101978.	80.960 UG/ML	1.24
79	149	1715	19:05	6	0.961	A BV	171003.	80.218 UG/ML	1.23
80	252	1729	19:14	6	0.969	A BV	123130.	77.017 UG/ML	1.18
81	252	1734	19:17	6	0.972	A VB	111530.	86.867 UG/ML	1.33
82	252	1776	19:45	6	0.996	A BB	107418.	82.057 UG/ML	1.26
83	276	1932	21:29	6	1.083	A BV	113827.	80.352 UG/ML	1.23
84	278	1938	21:33	6	1.086	A BB	114484.	81.551 UG/ML	1.25
85	276	1963	21:50	6	1.100	A BB	119594.	81.129 UG/ML	1.25

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:19	1.00	1.011	1.00	81.48	50.00	0.624	0.383	1.63
52	9:17	1.00	1.007	1.00	86.25	50.00	1.999	1.159	1.72
53	9:33	1.00	1.035	1.00	68.89	50.00	0.261	0.189	1.38
54	9:39	1.00	1.046	1.00	85.81	50.00	2.865	1.669	1.72
55	9:55	1.00	1.076	1.00	60.55	50.00	0.209	0.173	1.21
56	9:48	1.00	1.063	1.00	93.40	50.00	0.742	0.397	1.87
57	10:24	1.00	1.128	1.00	86.29	50.00	2.362	1.369	1.73
58	10:18	1.00	1.117	1.00	88.71	50.00	2.303	1.298	1.77
59	10:26	1.00	1.131	1.00	88.58	50.00	1.085	0.613	1.77
60	10:32	1.00	1.142	1.00	78.27	50.00	0.481	0.307	1.57
61	10:35	1.00	0.875	1.00	81.99	50.00	0.216	0.132	1.64
62	10:43	1.00	0.886	1.00	79.07	50.00	0.871	0.551	1.58
63	10:44	1.00	0.888	1.00	80.36	50.00	1.882	1.171	1.61
64	11:21	1.00	0.939	1.00	87.72	50.00	0.390	0.222	1.75
65	11:21	1.00	0.938	1.00	87.46	50.00	0.454	0.259	1.75
66	11:49	1.00	0.978	1.00	75.92	50.00	0.235	0.155	1.52
67	12:09	1.00	1.005	1.00	84.49	50.00	1.745	1.033	1.69
68	12:15	1.00	1.013	1.00	85.23	50.00	1.682	0.987	1.70
69	12:40	1.00	1.048	1.00	84.72	50.00	1.294	0.764	1.69
70	13:39	1.00	1.129	1.00	86.29	50.00	2.151	1.247	1.73
71	14:27	1.00	1.195	1.00	84.05	50.00	1.513	0.900	1.68
72	14:58	1.00	0.867	1.00	11.98	50.00	0.031	0.130	0.24
73	14:51	1.00	0.860	1.00	82.89	50.00	2.193	1.323	1.66
74	16:33	1.00	0.958	1.00	82.18	50.00	1.125	0.685	1.64
75	17:16	1.00	0.999	1.00	87.04	50.00	1.958	1.125	1.74
76	17:23	1.00	1.006	1.00	76.69	50.00	0.626	0.408	1.53
77	17:20	1.00	1.003	1.00	82.83	50.00	1.681	1.014	1.66

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	17:50	1.00	1.033	1.00	80.96	50.00	1.586	0.980	1.62
79	19:05	1.00	0.961	1.00	80.22	50.00	3.088	1.925	1.60
80	19:14	1.00	0.969	1.00	77.02	50.00	2.223	1.443	1.54
81	19:17	1.00	0.972	1.00	86.87	50.00	2.014	1.159	1.74
82	19:45	1.00	0.996	1.00	82.06	50.00	1.940	1.182	1.64
83	21:29	1.00	1.083	1.00	80.35	50.00	2.055	1.279	1.61
84	21:33	1.00	1.086	1.00	81.55	50.00	2.067	1.267	1.63
85	21:50	1.00	1.100	1.00	81.13	50.00	2.159	1.331	1.62

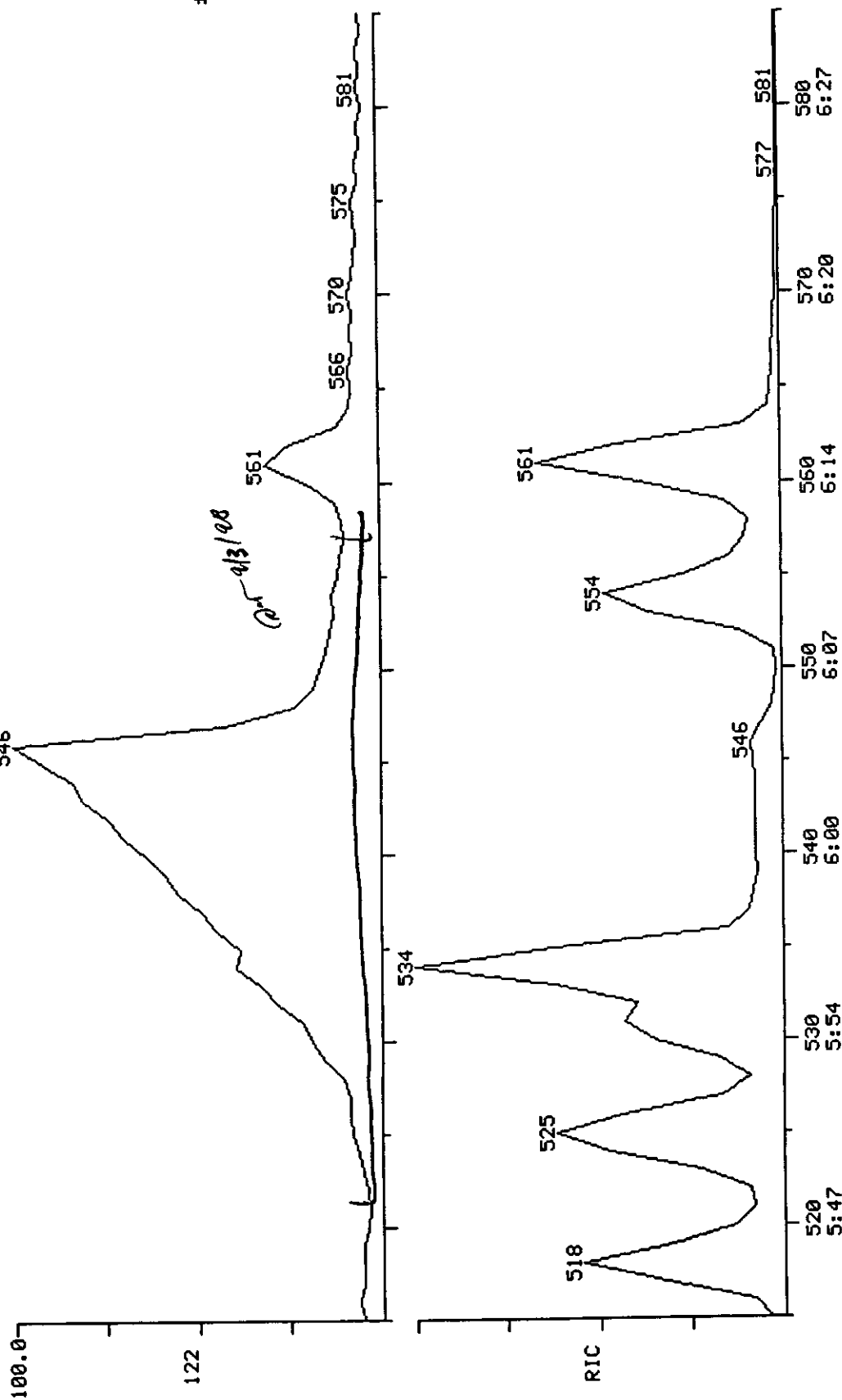
MANUAL EDIT CODES
 1. PEAK NOT FOUND
 2. POOR CHROMATOGRAPH
 3. WRONG ISOMER
 ALL MANUAL EDITS MUST BE
 INITIALED, DATED, AND CODED

RIC+MASS CHROMATOGRAM
 09/02/98 14:53:00
 DATA: ST16980902 #1
 CALI: ST16980902 #3
 SAMPLE: SSTD0880 80UG/ML CALI III 082198A
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3

2244.

122.037
± 0.500

166912.



1639

QUANTERRA GC/MS
SEMIVOLATILE APPENDIX IX CALIBRATION CHE

CONTIN. CALIBRATION: 80 UG/ML APPENDIX ST16980902A 09/02/98 15:24:00
 INITIAL CALIBRATION: 10 UG/ML APPENDIX ST16980831B 08/31/98 13:35:00
 INITIAL CALIBRATION: 20 UG/ML APPENDIX ST16980831C 08/31/98 14:02:00
 INITIAL CALIBRATION: 50 UG/ML APPENDIX ST16980831D 08/31/98 14:32:00
 INITIAL CALIBRATION: 80 UG/ML APPENDIX ST16980831A 08/31/98 13:07:00
 INITIAL CALIBRATION: 120 UG/ML APPENDIX ST16980831E 08/31/98 15:02:00
 INITIAL CALIBRATION: 160 UG/ML APPENDIX ST16980831F 08/31/98 15:31:00

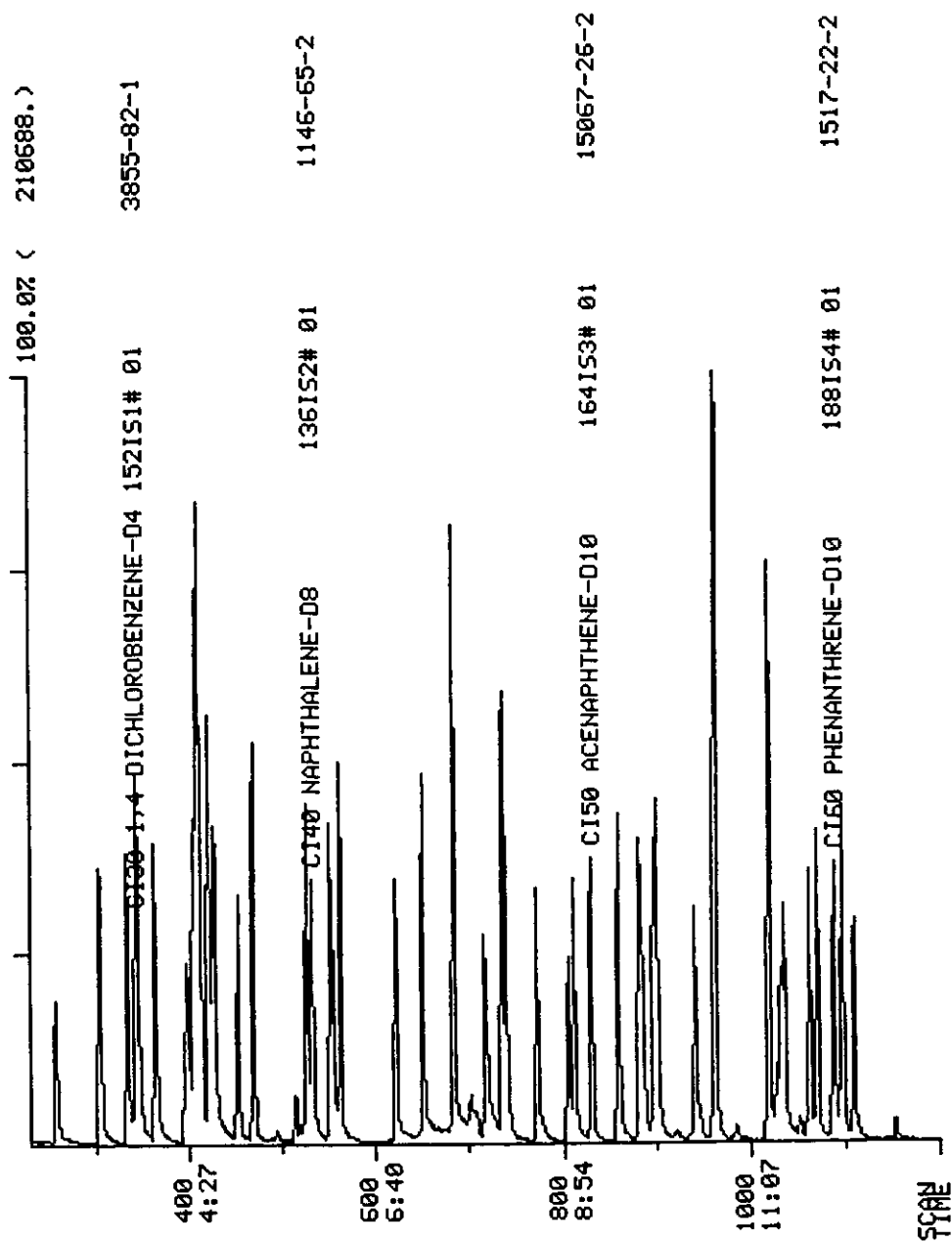
ST16980902A ST16980831B ST16980831C ST16980831D ST16980831A ST16980831E
 ST16980831F

Lib #	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
S1 20	80,	1.559			20,	1.583	50,	1.578	80,	1.587
S1 20	160,	1.576							120,	1.449
S1 30	80,	1.497			20,	1.563	50,	1.594	80,	1.577
S1 30	160,	1.545							120,	1.547
S1 40	80,	0.792			20,	0.737	50,	0.823	80,	0.876
S1 40	160,	0.870							120,	0.860
S1 60	80,	0.561			20,	0.688	50,	0.685	80,	0.602
S1 60	160,	0.604							120,	0.619
S1 70	80,	0.512			20,	0.506	50,	0.521	80,	0.549
S1 70	160,	0.555							120,	0.547
S1 85	80,	1.091			20,	1.008	50,	1.120	80,	1.168
S1 85	160,	1.244							120,	1.190
S1 95	80,	0.582			20,	0.612	50,	0.605	80,	0.605
S1 95	160,	0.592							120,	0.595
S1 170	80,	1.856			20,	2.024	50,	1.960	80,	1.945
S1 170	160,	1.903							120,	1.903
S1 175	80,	0.540			20,	0.555	50,	0.575	80,	0.562
S1 175	160,	0.575							120,	0.569
S1 180	80,	0.773			20,	0.838	50,	0.821	80,	0.805
S1 180	160,	0.816							120,	0.817
S1 182	80,	2.218			20,	2.130	50,	2.339	80,	2.408
S1 182	160,	2.394							120,	2.391
S1 195	80,	2.043			20,	2.463	50,	2.228	80,	2.129
S1 195	160,	1.949							120,	2.032
S2 15	80,	0.324			20,	0.312	50,	0.326	80,	0.327
S2 15	160,	0.329							120,	0.337
S2 50	80,	1.060			20,	1.575	50,	1.353	80,	1.036
S2 50	160,	1.184							120,	1.276
S2 85	80,	0.272			20,	0.234	50,	0.264	80,	0.280
S2 85	160,	0.285							120,	0.279
S2 90	80,	0.203			20,	0.196	50,	0.201	80,	0.197
S2 90	160,	0.198							120,	0.198

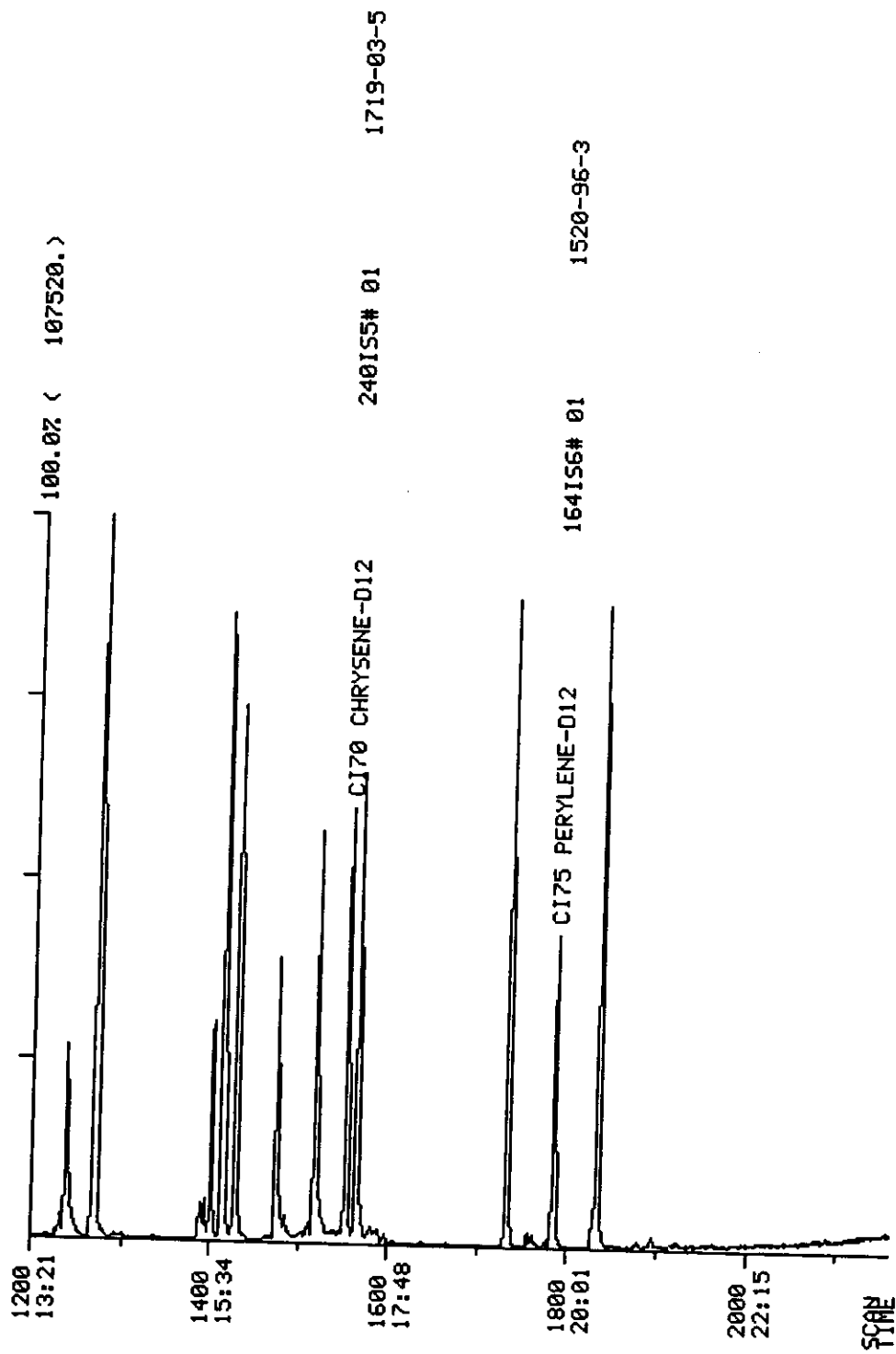
S2 115 80, 0.040	20, 0.163	50, 0.167	80, 0.038	120, 0.165
S2 115 160, 0.121				
S2 120 80, 0.215	20, 0.205	50, 0.213	80, 0.225	120, 0.224
S2 120 160, 0.224				
S2 140 80, 0.248	20, 0.246	50, 0.247	80, 0.250	120, 0.245
S2 140 160, 0.250				
S3 10 80, 0.427	20, 0.431	50, 0.434	80, 0.430	120, 0.416
S3 10 160, 0.419				
S3 15 80, 0.045	20, 0.046	50, 0.042	80, 0.043	120, 0.044
S3 15 160, 0.044				
S3 35 80, 0.191	20, 0.201	50, 0.195	80, 0.196	120, 0.190
S3 35 160, 0.192				
S3 42 80, 1.119	20, 1.098	50, 1.129	80, 1.528	120, 1.134
S3 42 160, 1.488				
S3 50 80, 0.432	20, 0.403	50, 0.429	80, 0.447	120, 0.404
S3 50 160, 0.389				
S3 60 80, 0.202	20, 0.191	50, 0.202	80, 0.210	120, 0.212
S3 60 160, 0.204				
S3 100 80, 0.498	20, 0.504	50, 0.483	80, 0.493	120, 0.469
S3 100 160, 0.471				
S3 110 80, 0.746	20, 0.859	50, 0.889	80, 0.765	120, 0.872
S3 110 160, 0.769				
S3 115 80, 0.900	20, 0.974	50, 1.041	80, 0.996	120, 0.980
S3 115 160, 0.881				
S3 120 80, 0.296	20, 0.277	50, 0.302	80, 0.310	120, 0.306
S3 120 160, 0.290				
S3 145 80, 0.338	20, 0.345	50, 0.368	80, 0.381	120, 0.367
S3 145 160, 0.316				
S4 25 80, 0.164	20, 0.149	50, 0.162	80, 0.172	120, 0.166
S4 25 160, 0.159				
S4 35 80, 0.293	20, 0.305	50, 0.324	80, 0.316	120, 0.330
S4 35 160, 0.311				
S4 37 80, 0.094	20, 0.088	50, 0.087	80, 0.089	120, 0.089
S4 37 160, 0.097				
S4 45 80, 0.577	20, 0.643	50, 0.664	80, 0.602	120, 0.590
S4 45 160, 0.546				
S4 55 80, 0.300	20, 0.312	50, 0.315	80, 0.301	120, 0.291
S4 55 160, 0.277				
S4 60 80, 0.086	20, 0.081	50, 0.079	80, 0.079	120, 0.082
S4 60 160, 0.081				
S4 75 80, 0.165	20, 0.130	50, 0.165	80, 0.163	120, 0.159

S4 75 160, 0.150					
S4 100 80, 0.074		20, 0.058	50, 0.074	80, 0.076	120, 0.079
S4 100 160, 0.075					
S4 105 80, 0.237		20, 0.424	50, 0.339	80, 0.205	120, 0.279
S4 105 160, 0.277					
S4 106 80, 0.129		20, 0.125	50, 0.129	80, 0.128	120, 0.127
S4 106 160, 0.124					
S4 120 80, 0.321	10, 0.376	20, 0.351	50, 0.329	80, 0.308	120, 0.295
S4 120 160, 0.281					
S5 20 80, 0.064		20, 0.057	50, 0.063	80, 0.061	120, 0.064
S5 20 160, 0.061					
S5 25 80, 0.085		20, 0.081	50, 0.090	80, 0.090	120, 0.087
S5 25 160, 0.085					
S5 30 80, 0.400		20, 0.417	50, 0.425	80, 0.420	120, 0.412
S5 30 160, 0.420					
S5 35 80, 0.352		20, 0.522	50, 0.450	80, 0.406	120, 0.364
S5 35 160, 0.346					
S5 37 80, 0.103		20, 0.123	50, 0.087	80, 0.089	120, 0.056
S5 37 160, 0.054					
S5 45 80, 0.435		20, 0.404	50, 0.450	80, 0.438	120, 0.429
S5 45 160, 0.440					
S5 85 80, 0.554		20, 0.586	50, 0.576	80, 0.549	120, 0.515
S5 85 160, 0.514					
S6 20 80, 0.599		20, 0.609	50, 0.615	80, 0.610	120, 0.608
S6 20 160, 0.609					

DATA FROM FILE: ST16980902A SCANS 230 TO 1200 ACQUIRED: 09/02/98 15:24:00
 CALI: ST16980902A #3
 SAMPLE: 80UG/ML AP9 062598F
 CONDS.: INST. ID: F16



DATA FROM FILE: ST16980902A SCANS 1200 TO 2158 ACQUIRED: 09/02/98 15:24:00
CALI: ST16980902A #3
SAMPLE: 80UG/ML AP9 062598F
CONDS.: INST. ID: F16



Quantitation Report File: ST16980902A

Data: ST16980902A.TI

09/02/98 15:24:00

Sample: 80UG/ML AP9 062598F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from average of whole .RL

No Name

1	C130 1,4-DICHLOROBENZENE-D4	152IS1# 01	3855-82-1
2	C140 NAPHTHALENE-D8	136IS2# 01	1146-65-2
3	C150 ACENAPHTHENE-D10	164IS3# 01	15067-26-2
4	C160 PHENANTHRENE-D10	188IS4# 01	1517-22-2
5	C170 CHRYSENE-D12	240IS5# 01	1719-03-5
6	C175 PERYLENE-D12	164IS6# 01	1520-96-3
7	PYRIDINE	79 S1# 20	110-86-1
8	2-PICOLINE	93 S1# 30	109-06-8
9	N-NITROSOMETHYLETHYLAMINE	42 S1# 40	10595-95-6
10	METHYLMETHANESULFONATE	80 S1# 60	
11	N-NITROSODIETHYLAMINE	102 S1# 70	55-18-5
12	ETHYLMETHANE SULFONATE	79 S1# 85	66-27-3
13	PENTACHLOROETHANE	117 S1# 95	76-01-7
14	C361 ACETOPHENONE	105 S1#170	
15	N-NITROSPYRROLIDINE	100 S1#175	930-55-2
16	N-NITROSOMORPHOLINE	56 S1#180	59-89-2
17	3-METHYL PHENOL	108 S1#182	
18	O-TOLUIDINE	106 S1#195	95-53-4
19	N-NITROSOPIPERIDINE	42 S2# 15	100-75-4
20	AA-DIMETHYLPHENETHYLAMINE	58 S2# 50	122-09-8
21	2,6-DICHLOROPHENOL	162 S2# 85	87-65-0
22	HEXACHLOROPROPENE	213 S2# 90	
23	P-PHENYLENE DIAMINE	108 S2#115	106-50-3
24	N-NITROSODI-N-BUTYLAMINE	84 S2#120	924-16-3
25	SAFROLE	152 S2#140	94-59-7
26	1,2,4,5-TETRACHLOROBENZENE	214 S3# 10	95-94-3
27	ISOSAFROLE (#1)	162 S3# 15	120-58-1
28	ISOSAFROLE (#2)	104 S3# 35	120-58-1
29	1-CHLORONAPHTHALENE	162 S3# 42	90-13-1
30	1,4-NAPHTHOQUINONE	158 S3# 50	130-15-4
31	1,3-DINITROBENZENE	168 S3# 60	99-65-0
32	PENTACHLOROBENZENE	250 S3#100	708-93-5
33	1-NAPHTHYLAMINE	143 S3#110	134-32-7
34	2-NAPHTHYLAMINE	143 S3#115	91-59-8
35	2,3,4,6-TETRACHLOROPHENOL	232 S3#120	58-90-2
36	5-NITRO-O-TOLUIDINE	152 S3#145	99-52-5
37	SYM-TRINITROBENZENE	75 S4# 25	
38	PHENACETIN	108 S4#35	62-44-2
39	DIALATE	234 S4# 37	
40	4-AMINOBIIPHENYL	169 S4# 45	92-67-1
41	PRONAMIDE	173 S4# 55	23950-58-5
42	PENTACHLORONITROBENZENE	237 S4# 60	82-68-8
43	ZSECBUTYL-4,6-DINITROPHENOL	211 S4# 75	88-85-7
44	4-NITROQUINOLINE-1-OXIDE	190 S4#100	
45	METHAPYRILENE	58 S4#105	91-80-5
46	ISODRIN		
47	CHLOROBENZILATE	139 S4#120	

No	Name		
48	ARAMITE (#1)	185 S5# 20	140-57-8
49	ARAMITE (#2)	185 S5# 25	140-57-8
50	P-DIMETHYLAMINOAZOBENZENE	120 S5# 30	60-11-7

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	341	3:48	1	1.000	A BV	23430.	40.000 UG/ML	0.99
2	136	530	5:54	2	1.000	A BB	82177.	40.000 UG/ML	0.99
3	164	829	9:13	3	1.000	A BB	47233.	40.000 UG/ML	0.99
4	188	1087	12:05	4	1.000	A BB	81529.	40.000 UG/ML	0.99
5	240	1552	17:16	5	1.000	A BV	57252.	40.000 UG/ML	0.99
6	264	1783	19:50	6	1.000	A BB	46438.	40.000 UG/ML	0.99
7	79	103	1:09	1	0.302	A BB	73075.	78.441 UG/ML	1.94
8	93	146	1:37	1	0.428	A BB	70141.	76.521 UG/ML	1.90
9	42	157	1:45	1	0.460	A BB	37109.	78.106 UG/ML	1.94
10	80	183	2:02	1	0.537	A BB	26293.	70.558 UG/ML	1.75
11	102	218	2:25	1	0.639	A BB	23982.	78.533 UG/ML	1.95
12	79	255	2:50	1	0.748	A BB	51129.	78.747 UG/ML	1.95
13	117	303	3:22	1	0.889	A BB	27292.	77.437 UG/ML	1.92
14	105	404	4:30	1	1.185	A BV	86991.	76.796 UG/ML	1.90
15	100	406	4:31	1	1.191	A BV	25281.	78.050 UG/ML	1.93
16	56	412	4:35	1	1.208	A BB	36244.	75.399 UG/ML	1.87
17	108	420	4:40	1	1.232	A BB	103957.	78.816 UG/ML	1.95
18	106	409	4:33	1	1.199	A BV	95752.	75.665 UG/ML	1.88
19	42	452	5:02	2	0.853	A BV	53309.	80.966 UG/ML	2.01
20	58	706	7:51	2	1.332	qedt	174290.	66.024 UG/ML	1.64
21	162	553	6:09	2	1.043	A BB	44702.	84.515 UG/ML	2.09
22	213	549	6:06	2	1.036	A BV	33370.	81.974 UG/ML	2.03
23	108	648	7:12	2	1.223	qedt	6560.	24.410 UG/ML	0.60
24	84	620	6:54	2	1.170	A BB	35296.	80.627 UG/ML	2.00
25	162	648	7:12	2	1.223	A BB	40806.	80.192 UG/ML	1.99
26	214	682	7:35	3	0.823	A BB	40306.	78.792 UG/ML	1.95
27	162	699	7:46	3	0.843	A BB	4260.	82.650 UG/ML	2.05
28	104	738	8:13	3	0.890	A BB	18010.	78.310 UG/ML	1.94
29	162	734	8:10	3	0.885	A BV	105725.	67.939 UG/ML	1.68
30	158	770	8:34	3	0.929	A BB	40775.	83.300 UG/ML	2.06
31	168	804	8:57	3	0.970	A BB	19068.	81.768 UG/ML	2.03
32	250	858	9:33	3	1.035	A BB	47076.	81.449 UG/ML	2.02
33	143	883	9:49	3	1.065	A BB	70446.	71.254 UG/ML	1.77
34	143	899	10:00	3	1.084	A BB	85044.	74.553 UG/ML	1.85
35	232	896	9:58	3	1.081	A BB	27957.	79.729 UG/ML	1.98
36	152	941	10:28	3	1.135	A BB	31963.	76.138 UG/ML	1.89
37	75	1026	11:25	4	0.944	A BB	26738.	81.214 UG/ML	2.01
38	108	1035	11:31	4	0.952	A BB	47788.	73.971 UG/ML	1.83
39	234	1018	11:19	4	0.937	A BV	15382.	83.878 UG/ML	2.08
40	169	1069	11:53	4	0.983	A BB	94094.	75.804 UG/ML	1.88
41	173	1096	12:11	4	1.008	A BB	48872.	80.082 UG/ML	1.98
42	237	1061	11:48	4	0.976	A BB	13992.	85.418 UG/ML	2.12
43	211	1108	12:19	4	1.019	A VB	26967.	86.160 UG/ML	2.14
44	190	1237	13:46	4	1.138	A BB	12009.	81.269 UG/ML	2.01
45	58	1267	14:06	4	1.166	A BB	38678.	62.277 UG/ML	1.54
46	193	1270	14:08	4	1.168	A BB	21038.	81.494 UG/ML	2.02
47	139	1428	15:53	4	1.314	A BB	52292.	79.309 UG/ML	1.97
48	185	1400	15:34	5	0.902	A VB	7298.	83.488 UG/ML	2.07
49	185	1414	15:44	5	0.911	A BB	9760.	78.798 UG/ML	1.95
50	120	1412	15:42	5	0.910	A BB	45827.	76.447 UG/ML	1.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	19:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:09	1.00	0.302	1.00	78.44	50.00	2.495	1.590	1.57
8	1:37	1.00	0.428	1.00	76.52	50.00	2.395	1.565	1.53
9	1:45	1.00	0.460	1.00	78.11	50.00	1.267	0.811	1.56
10	2:02	1.00	0.537	1.00	70.56	50.00	0.898	0.636	1.41
11	2:25	1.00	0.639	1.00	78.53	50.00	0.819	0.521	1.57
12	2:50	1.00	0.748	1.00	78.75	50.00	1.746	1.108	1.57
13	3:22	1.00	0.889	1.00	77.44	50.00	0.932	0.602	1.55
14	4:30	1.00	1.185	1.00	76.80	50.00	2.970	1.934	1.54
15	4:31	1.00	1.191	1.00	78.05	50.00	0.863	0.553	1.56
16	4:35	1.00	1.208	1.00	75.40	50.00	1.238	0.821	1.51
17	4:40	1.00	1.232	1.00	78.82	50.00	3.550	2.252	1.58
18	4:33	1.00	1.199	1.00	75.66	50.00	3.269	2.160	1.51
19	5:02	1.00	0.853	1.00	80.97	50.00	0.519	0.320	1.62
20	7:51	1.00	1.332	1.00	66.02	50.00	1.697	1.285	1.32
21	6:09	1.00	1.043	1.00	84.51	50.00	0.435	0.257	1.69
22	6:06	1.00	1.036	1.00	81.97	50.00	0.325	0.198	1.64
23	7:12	1.00	1.223	1.00	24.41	50.00	0.064	0.131	0.49
24	6:54	1.00	1.170	1.00	80.63	50.00	0.344	0.213	1.61
25	7:12	1.00	1.223	1.00	80.19	50.00	0.397	0.248	1.60
26	7:35	1.00	0.823	1.00	78.79	50.00	0.683	0.433	1.58
27	7:46	1.00	0.843	1.00	82.65	50.00	0.072	0.044	1.65
28	8:13	1.00	0.890	1.00	78.31	50.00	0.305	0.195	1.57
29	8:10	1.00	0.885	1.00	67.94	50.00	1.791	1.318	1.36
30	8:34	1.00	0.929	1.00	83.30	50.00	0.691	0.415	1.67
31	8:57	1.00	0.970	1.00	81.77	50.00	0.323	0.197	1.64
32	9:33	1.00	1.035	1.00	81.45	50.00	0.797	0.489	1.63
33	9:49	1.00	1.065	1.00	71.25	50.00	1.193	0.837	1.43
34	10:00	1.00	1.084	1.00	74.55	50.00	1.440	0.966	1.49
35	9:58	1.00	1.081	1.00	79.73	50.00	0.474	0.297	1.59
36	10:28	1.00	1.135	1.00	76.14	50.00	0.541	0.356	1.52
37	11:25	1.00	0.944	1.00	81.21	50.00	0.262	0.162	1.62
38	11:31	1.00	0.952	1.00	73.97	50.00	0.469	0.317	1.48
39	11:19	1.00	0.937	1.00	83.88	50.00	0.151	0.090	1.68
40	11:53	1.00	0.983	1.00	75.80	50.00	0.923	0.609	1.52
41	12:11	1.00	1.008	1.00	80.08	50.00	0.480	0.299	1.60
42	11:48	1.00	0.976	1.00	85.42	50.00	0.137	0.080	1.71
43	12:19	1.00	1.019	1.00	86.16	50.00	0.265	0.154	1.72
44	13:46	1.00	1.138	1.00	81.27	50.00	0.118	0.073	1.63
45	14:06	1.00	1.166	1.00	62.28	50.00	0.380	0.305	1.25
46	14:08	1.00	1.168	1.00	81.49	50.00	0.206	0.127	1.63
47	15:53	1.00	1.314	1.00	79.31	50.00	0.513	0.323	1.59
48	15:34	1.00	0.902	1.00	83.49	50.00	0.102	0.061	1.67
49	15:44	1.00	0.911	1.00	78.80	50.00	0.136	0.087	1.58
50	15:42	1.00	0.910	1.00	76.45	50.00	0.640	0.419	1.53

Quantitation Report File: ST16980902A

Data: ST16980902A.T1

09/02/98 15:24:00

Sample: 80UG/ML AP9 062598F

Conds.: INST. ID: F16

Formula: 1UL INJ.

Instrument: F16

Weight: 0.000

Submitted by: QES

Analyst: DAT

Acct. No.: FIN

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from average of whole .RL

No Name

51	3,3'-DIMETHYLBENZIDINE	212 S5# 35	
52	KEPONE	272 S5# 37	
53	2-ACETYLAMINOFLUORENE	181 S5# 45	53-96-3
54	3-METHYLCHOLANTHRENE	268 S5# 85	56-49-5
55	7,12-DIMETHYLBENZANTHRACENE	256 S6# 20	75-97-6
56	HEXACHLOROPHENE	196 S6# 30	70-30-4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	212	1473	16:23	5	0.949	A BB	40357.	67.516 UG/ML	1.67
52	272	1504	16:44	5	0.969	qedt	11784.	100.447 UG/ML	2.49
53	181	1518	16:53	5	0.978	A BB	49800.	80.513 UG/ML	2.00
54	268	1833	20:23	5	1.181	A BB	63472.	80.915 UG/ML	2.01
55	256	1731	19:15	6	0.971	A BB	55616.	78.526 UG/ML	1.95
56	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:23	1.00	0.949	1.00	67.52	50.00	0.564	0.418	1.35
52	16:44	1.00	0.969	1.00	100.45	50.00	0.165	0.082	2.01
53	16:53	1.00	0.978	1.00	80.51	50.00	0.696	0.432	1.61
54	20:23	1.00	1.181	1.00	80.91	50.00	0.887	0.548	1.62
55	19:15	1.00	0.971	1.00	78.53	50.00	0.958	0.610	1.57
56	21:11		0.992						

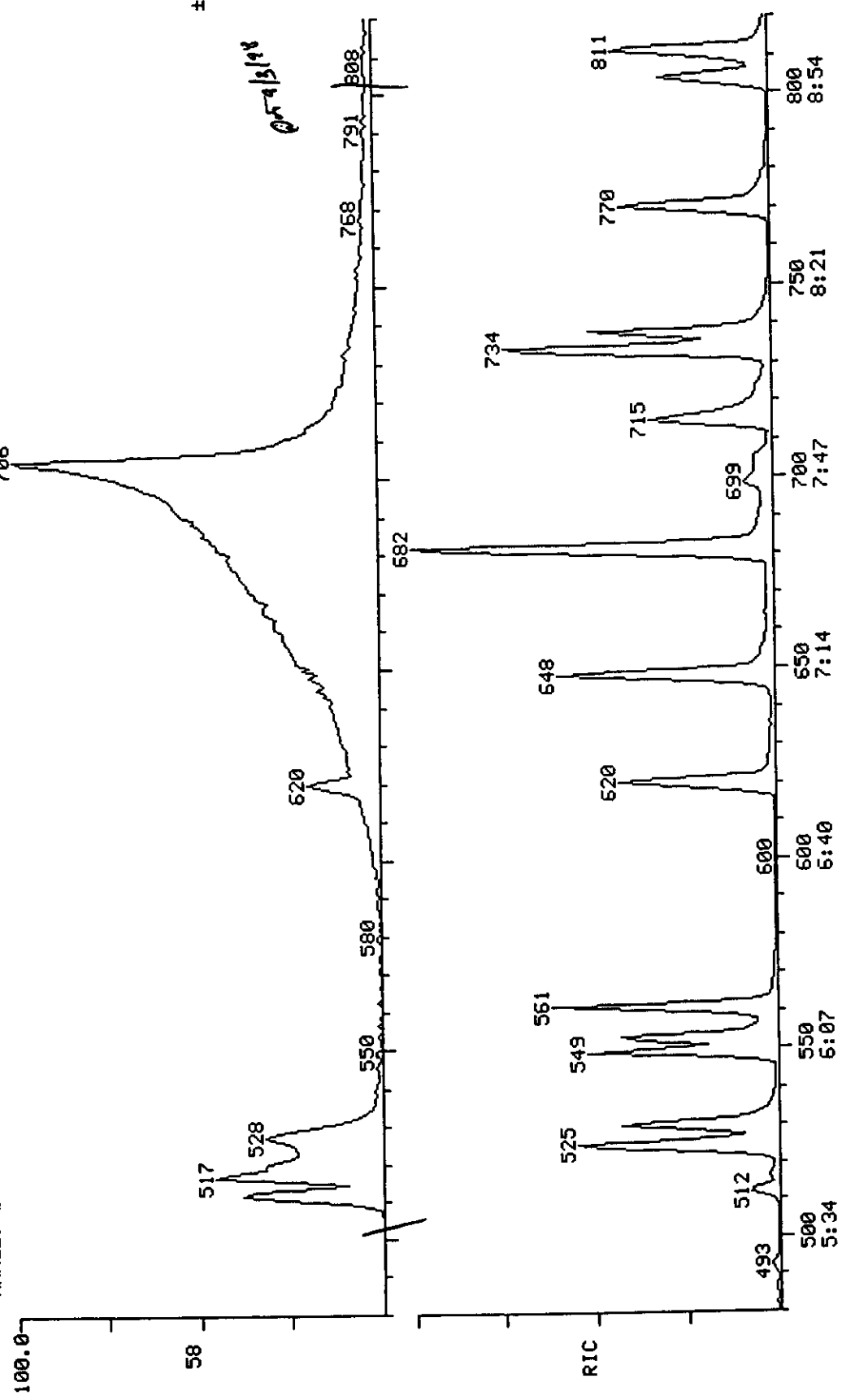
MANUAL EDIT CODES
 1. PEAK NOT FOUND
 2. POOR CHROMATOGRAPHY
 3. WRONG ISOMER
 ALL MANUAL EDITS MUST BE
 INITIALED, DATED, AND CODED

RIC+MASS CHROMATOGRAM
 09/02/98 15:24:00
 SAMPLE: 80UG/ML AP9 062538F
 COND.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0. 2.0 QUAN: A 6. 2.0 J 0 BASE: U 20. 3
 DATA: ST16980902A #1
 CALI: ST16980902A #3
 SCANS 480 TO 820

3948.

58.017
± 0.500

169728.

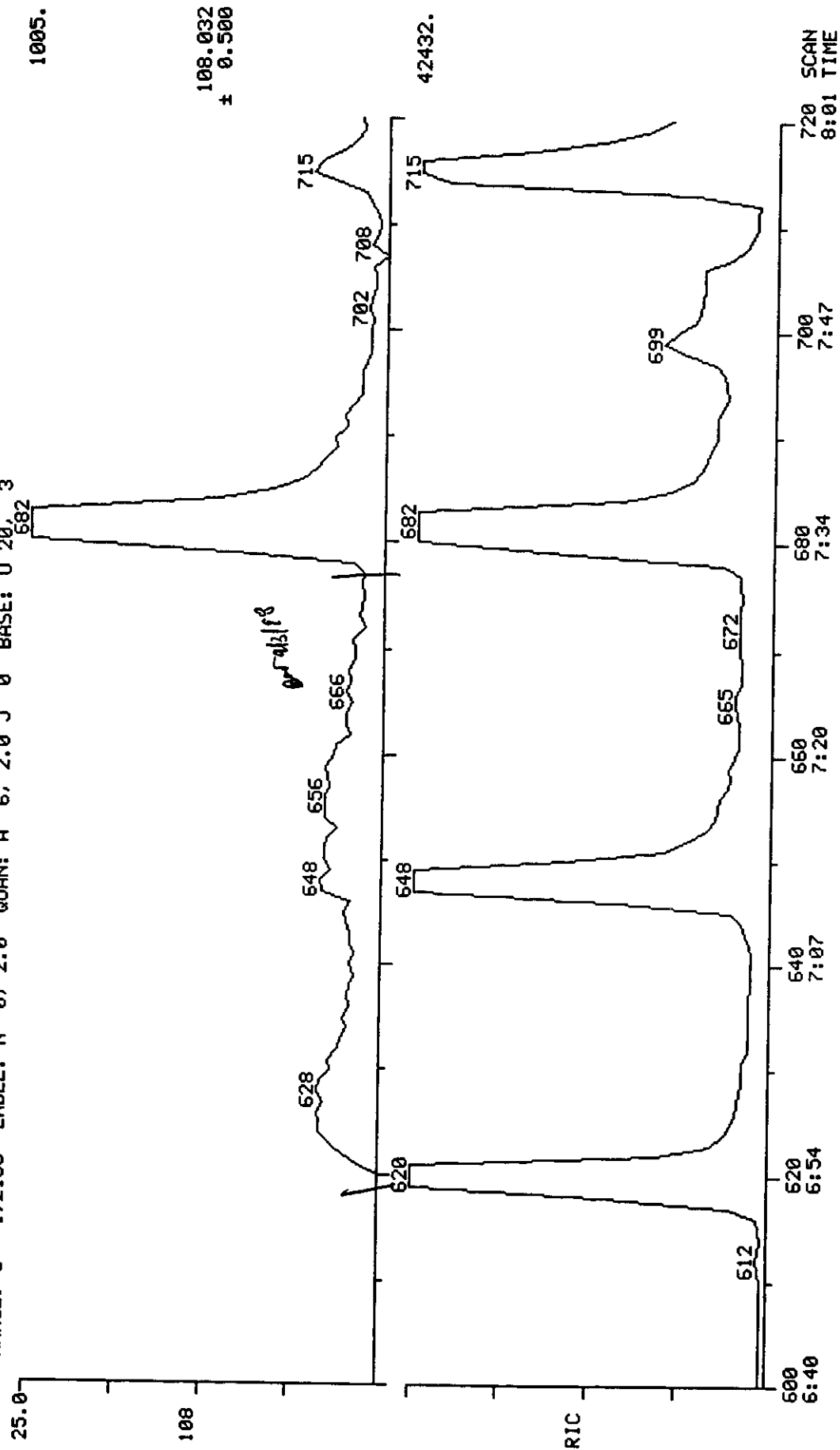


1649

RIC+MASS CHROMATOGRAM

09/02/98 15:24:00
 SAMPLE: 80UG/ML AP9 062598F
 CONDS.: INST. ID: F16
 RANGE: G 1.2158 LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0 BASE: U 20, 3

DATA: ST16980902A #1
 CALI: ST16980902A #3
 SCANS 600 TO 720



SCANS 1440 TO 1640

	DATA:	ST16980902A #1
	CALI:	ST16980902A #3

RIC+MASS CHROMATOGRAM

09/02/98 15:24:00 8011G/ML AP9 062598F

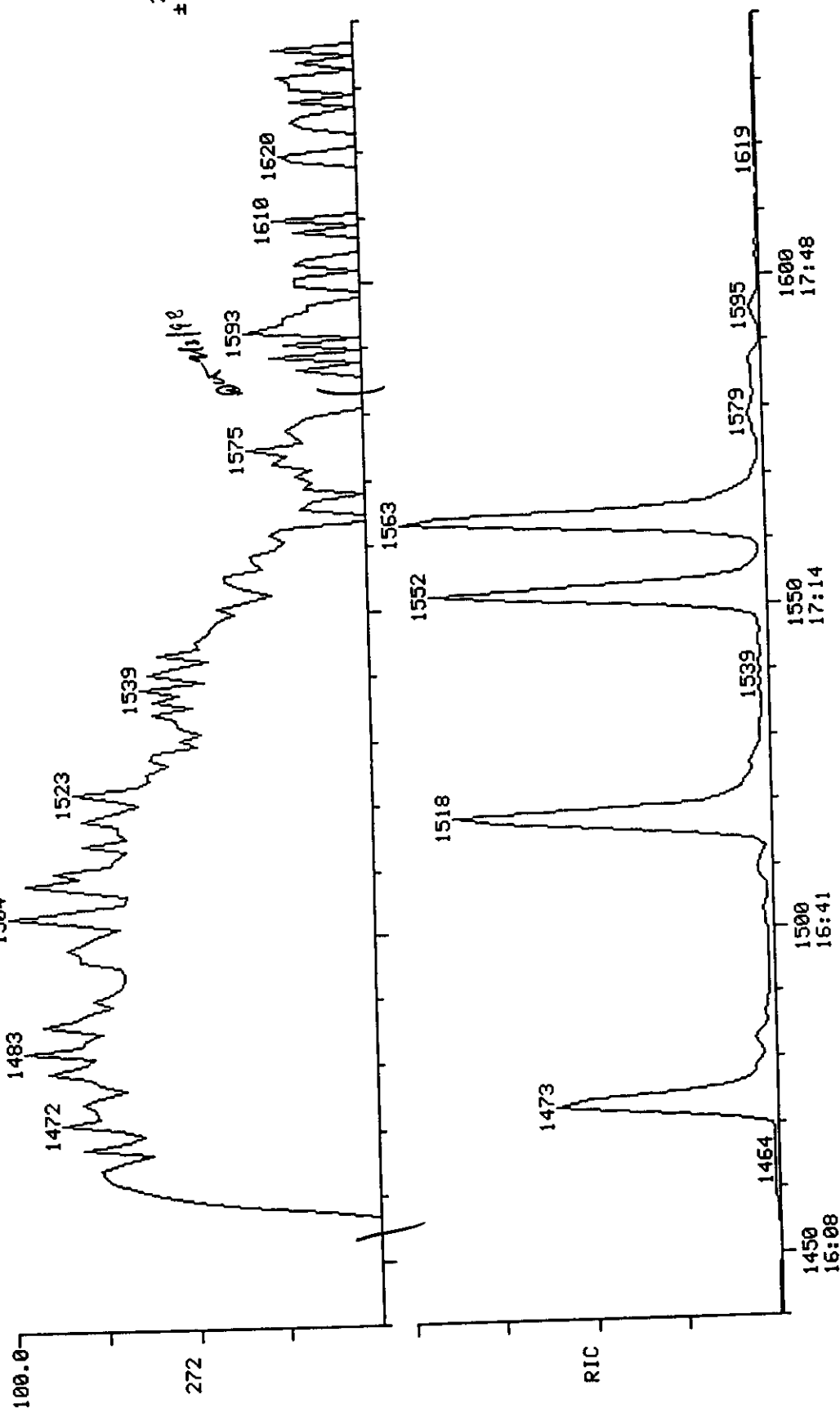
SAMPLE: 8009112 HI 3
COND: 15NI INST. ID: F16

CONUS: 1 2.0 J 0
RANGE: G 1,2158
LABEL: N 0, 2.0 QUAN: A 6, 2.0 J 0
1504

158.

272.081
± 0.500

8888.



1651

Method Blank (w/SCS)

METHOD BLANK REPORT
Semivolatile Organics by GC/MS
Project: 300681

Test: 8270-TCL-G
Method: 0010/8270
Matrix: FILTER
QC Lot: 31 JUL 98-16A
Analyzed: 31 AUG 98

Semivolatile Organics

QC Run: 31 JUL 98-16A
Time: 16:02

Analyte	Result	Units	Reporting Limit	Qualifier
Phenol	ND	ug/Sample	10	
bis(2-Chloroethyl)ether	ND	ug/Sample	10	
2-Chlorophenol	ND	ug/Sample	10	
1,3-Dichlorobenzene	ND	ug/Sample	10	
1,4-Dichlorobenzene	ND	ug/Sample	10	
Benzyl alcohol	ND	ug/Sample	10	
1,2-Dichlorobenzene	ND	ug/Sample	10	
2-Methylphenol	ND	ug/Sample	10	
2,2'-Oxybis(1-chloropropane)	ND	ug/Sample	10	
3/4-Methylphenol	ND	ug/Sample	10	
N-Nitroso-di-n-propylamine	ND	ug/Sample	10	
Hexachloroethane	ND	ug/Sample	10	
Nitrobenzene	ND	ug/Sample	10	
Isophorone	ND	ug/Sample	10	
2-Nitrophenol	ND	ug/Sample	10	
2,4-Dimethylphenol	ND	ug/Sample	10	
Benzoic acid	ND	ug/Sample	50	
bis(2-Chloroethoxy)-methane	ND	ug/Sample	10	
2,4-Dichlorophenol	ND	ug/Sample	10	
1,2,4-Trichlorobenzene	ND	ug/Sample	10	
Naphthalene	ND	ug/Sample	10	
4-Chloroaniline	ND	ug/Sample	10	
Hexachlorobutadiene	ND	ug/Sample	10	
4-Chloro-3-methylphenol	ND	ug/Sample	10	
2-Methylnaphthalene	ND	ug/Sample	10	
Hexachlorocyclopentadiene	ND	ug/Sample	10	
2,4,6-Trichlorophenol	ND	ug/Sample	10	
2,4,5-Trichlorophenol	ND	ug/Sample	50	
2-Chloronaphthalene	ND	ug/Sample	10	
2-Nitroaniline	ND	ug/Sample	10	
Dimethyl phthalate	ND	ug/Sample	10	
Acenaphthylene	ND	ug/Sample	10	
3-Nitroaniline	ND	ug/Sample	50	
Acenaphthene	ND	ug/Sample	10	
2,4-Dinitrophenol	ND	ug/Sample	50	
4-Nitrophenol	ND	ug/Sample	50	
Dibenzofuran	ND	ug/Sample	10	
2,4-Dinitrotoluene	ND	ug/Sample	10	
2,6-Dinitrotoluene	ND	ug/Sample	10	
Diethyl phthalate	ND	ug/Sample	10	
4-Chlorophenyl phenyl ether	ND	ug/Sample	10	
Fluorene	ND	ug/Sample	10	
4-Nitroaniline	ND	ug/Sample	50	
4,6-Dinitro-2-methylphenol	ND	ug/Sample	50	
N-Nitrosodiphenylamine	ND	ug/Sample	10	

ND = Not Detected

METHOD BLANK REPORT (cont.)
Semivolatile Organics by GC/MS
Project: 300681

Test: 8270-TCL-G

Method: 0010/8270

Matrix: FILTER

QC Lot: 31 JUL 98-16A

Analyzed: 31 AUG 98

Semivolatile Organics

QC Run: 31 JUL 98-16A

Time: 16:02

Analyte	Result	Units	Reporting Limit	Qualifier
4-Bromophenyl phenyl ether	ND	ug/Sample	10	
Hexachlorobenzene	ND	ug/Sample	10	
Pentachlorophenol	ND	ug/Sample	50	
Phenanthrene	ND	ug/Sample	10	
Anthracene	ND	ug/Sample	10	
Di-n-butyl phthalate	ND	ug/Sample	10	
Fluoranthene	ND	ug/Sample	10	
Pyrene	ND	ug/Sample	10	
Butyl benzyl phthalate	ND	ug/Sample	10	
3,3'-Dichlorobenzidine	ND	ug/Sample	20	
Benzo(a)anthracene	ND	ug/Sample	10	
bis(2-Ethylhexyl)-phthalate	ND	ug/Sample	10	
Chrysene	ND	ug/Sample	10	
Di-n-octyl phthalate	ND	ug/Sample	10	
Benzo(b)fluoranthene	ND	ug/Sample	10	
Benzo(k)fluoranthene	ND	ug/Sample	10	
Benzo(a)pyrene	ND	ug/Sample	10	
Indeno(1,2,3-cd)pyrene	ND	ug/Sample	10	
Dibenz(a,h)anthracene	ND	ug/Sample	10	
Benzo(g,h,i)perylene	ND	ug/Sample	10	
Acetophenone	ND	ug/Sample	10	
4-Aminobiphenyl	ND	ug/Sample	50	
Aniline	ND	ug/Sample	10	
Benzidine	ND	ug/Sample	100	
3,3'-Dimethylbenzidine	ND	ug/Sample	20	
N-Nitrosodimethylamine	ND	ug/Sample	10	
N-Nitrosomorpholine	ND	ug/Sample	10	
Pentachloronitrobenzene (PCNB)	ND	ug/Sample	50	
o-Toluidine	ND	ug/Sample	20	
2-Methoxybenzenamine	ND	ug/Sample	--	
Biphenyl	ND	ug/Sample	--	
Chloroacetophenone	ND	ug/Sample	--	
Cumene	ND	ug/Sample	--	
DBCP (1,2-Dibromo-3-chloropropane)	ND	ug/Sample	--	
Benzo(e)pyrene	ND	ug/Sample	--	
N-N-Diethylaniline	ND	ug/Sample	--	
Dimethylaniline	ND	ug/Sample	--	
3,3'-Dimethoxybenzidine	ND	ug/Sample	--	
Hydroquinone	ND	ug/Sample	--	
4,4'-Methyl-bis(2-chloroaniline)	ND	ug/Sample	--	
4-Nitrodiphenyl	ND	ug/Sample	--	
Trifluralin	ND	ug/Sample	--	

ND = Not Detected

1654

METHOD BLANK REPORT (cont.)
Semivolatile Organics by GC/MS
Project: 300681

Surrogate	% Recovery	Acceptable Range
Nitrobenzene-d5	86	45 -107
2-Fluorobiphenyl	102	62 -110
Terphenyl-d14	106	58 -135
Phenol-d5	85	43 -130
2-Fluorophenol	82	36 -111
2,4,6-Tribromophenol	94	58 -131

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSX

Std Id: ST16980831

Sample: SBLKSX 31JUL98-16A 1/3SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 08/31/98 16:02

Analyst: DAT Instrument ID: F16

Run Factor: 3.00

Quan List Threshold: 0.95

Surrogate Vol.: 1.00

Surrogate Spike Recoveries

8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	
	Spiked	Measured	Measured	QC limits
CS20 NITROBENZENE-D5	50.00	43.20	86.4	45 107
CS25 2-FLUOROBIPHENY	50.00	51.20	102.	62 110
CS30 TERPHENYL-D14	50.00	52.90	106.	58 135
CS45 PHENOL-D5	100.0	84.60	84.6	43 130
CS50 2-FLUOROPHENOL	100.0	81.80	81.8	36 111
CS55 2,4,6-TRIBROMOP	100.0	94.50	94.5	58 131

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
HEXACHLOROBENZENE-C13		ND	UG/A	30.0
C310 N-NITROSODIMETHYLAMINE		ND	UG/A	30.0
PYRIDINE		ND	UG/A	60.0
2-PICOLINE		ND	UG/A	30.0
N-NITROSOMETHYLETHYLAMINE		ND	UG/A	30.0
METHYLMETHANESULFONATE		ND	UG/A	30.0
N-NITROSODIETHYLAMINE		ND	UG/A	30.0
ETHYLMETHANE SULFONATE		ND	UG/A	30.0
PENTACHLOROETHANE		ND	UG/A	30.0
C320 ANILINE		ND	UG/A	30.0
C315 PHENOL		ND	UG/A	30.0
C325 BIS(2-CHLOROETHYL)ETHER		ND	UG/A	30.0
C330 2-CHLOROPHENOL		ND	UG/A	30.0
C335 1,3-DICHLOROBENZENE		ND	UG/A	30.0
C340 1,4-DICHLOROBENZENE		ND	UG/A	30.0
C345 BENZYL ALCOHOL		ND	UG/A	30.0
C350 1,2-DICHLOROBENZENE		ND	UG/A	30.0
C355 2-METHYLPHENOL		ND	UG/A	30.0
C360 2,2'-OXYBIS(1-CLPROPAN)		ND	UG/A	30.0
C361 ACETOPHENONE		ND	UG/A	30.0
N-NITROSOPYRROLIDINE		ND	UG/A	30.0
N-NITROSOMORPHOLINE		ND	UG/A	30.0
3-METHYL PHENOL		ND	UG/A	30.0
C365 4-METHYLPHENOL		ND	UG/A	30.0
C370 N-NITROSO-DI-N-PROPYLAM		ND	UG/A	30.0
O-TOLUIDINE		ND	UG/A	30.0
C375 HEXACHLOROETHANE		ND	UG/A	30.0
C410 NITROBENZENE		ND	UG/A	30.0
N-NITROSOPIPERIDINE		ND	UG/A	30.0

Reviewed by: KG 9/17/98

1056

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSX

Std Id: ST16980831

Sample: SBLKSX 31JUL98-16A 1/3SA/1ML

Client: PACIFI

Analyst: DAT Instrument ID: F16

Quan List Threshold: 0.95

INST. ID: F16

Date Analyzed: 08/31/98 16:02

Run Factor: 3.00

Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C415 ISOPHORONE		ND	UG/A	30.0
C420 2-NITROPHENOL		ND	UG/A	30.0
C425 2,4-DIMETHYLPHENOL		ND	UG/A	30.0
C435 BIS(2-CHLOROETHOXY)METH		ND	UG/A	30.0
C440 2,4-DICHLOROPHENOL		ND	UG/A	30.0
C430 BENZOIC ACID		ND	UG/A	150.0
AA-DIMETHYLPHENETHYLAMINE		ND	UG/A	30.0
C445 1,2,4-TRICHLOROBENZENE		ND	UG/A	30.0
C450 NAPHTHALENE		ND	UG/A	30.0
C455 4-CHLOROANILINE		ND	UG/A	30.0
2,6-DICHLOROPHENOL		ND	UG/A	30.0
HEXACHLOROPROPENE		ND	UG/A	30.0
C460 HEXACHLOROBUTADIENE		ND	UG/A	30.0
P-PHENYLENE DIAMINE		ND	UG/A	30.0
N-NITROSODI-N-BUTYLAMINE		ND	UG/A	30.0
C465 4-CHLORO-3-METHYLPHENO		ND	UG/A	30.0
SAFROLE		ND	UG/A	30.0
C470 2-METHYLNAPHTHALENE		ND	UG/A	30.0
1,2,4,5-TETRACHLOROBENZENE		ND	UG/A	30.0
ISOSAFROLE (#1)		ND	UG/A	60.0
C510 HEXACHLOROCYCLOPENTADI		ND	UG/A	30.0
C515 2,4,6-TRICHLOROPHENOL		ND	UG/A	30.0
C520 2,4,5-TRICHLOROPHENOL		ND	UG/A	30.0
ISOSAFROLE (#2)		ND	UG/A	60.0
C525 2-CHLORONAPHTHALENE		ND	UG/A	30.0
1-CHLORONAPHTHALENE		ND	UG/A	15.0
C530 2-NITROANILINE		ND	UG/A	150.0
1,4-NAPHTHOQUINONE		ND	UG/A	30.0
C535 DIMETHYLPHTHALATE		ND	UG/A	30.0
1,3-DINITROBENZENE		ND	UG/A	30.0
C540 ACENAPHTHYLENE		ND	UG/A	30.0
C543 2,6-DINITROTOLUENE		ND	UG/A	30.0
C545 3-NITROANILINE		ND	UG/A	150.0
C550 ACENAPHTHENE		ND	UG/A	30.0
C555 2,4-DINITROPHENOL		ND	UG/A	150.0
C565 DIBENZOFURAN		ND	UG/A	30.0
C560 4-NITROPHENOL		ND	UG/A	150.0
PENTACHLOROBENZENE		ND	UG/A	30.0
C570 2,4-DINITROTOLUENE		ND	UG/A	30.0
1-NAPHTHYLAMINE		ND	UG/A	30.0
2-NAPHTHYLAMINE		ND	UG/A	30.0
2,3,4,6-TETRACHLOROPHENOL		ND	UG/A	60.0
C580 DIETHYLPHTHALATE		ND	UG/A	30.0
C590 FLUORENE		ND	UG/A	30.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSX

Std Id: ST16980831

Sample: SBLKSX 31JUL98-16A 1/3SA/1ML

Client: PACIFI

Analyst: DAT Instrument ID: F16

Quan List Threshold: 0.95

INST. ID: F16

Date Analyzed: 08/31/98 16:02

Run Factor: 3.00

Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
=====				
C585 4-CHLOROPHENYL-PHENYLE		ND	UG/A	30.0
5-NITRO-O-TOLUIDINE		ND	UG/A	30.0
C595 4-NITROANILINE		ND	UG/A	150.0
C610 4,6-DINITRO-2-METHYLPH		ND	UG/A	150.0
C615 N-NITROSODIPHENYLAMINE		ND	UG/A	30.0
C620 AZOBENZENE		ND	UG/A	30.0
SYM-TRINITROBENZENE		ND	UG/A	30.0
C625 4-BROMOPHENYL-PHENYLET		ND	UG/A	30.0
PHENACETIN		ND	UG/A	30.0
DIALATE	234	ND	UG/A	30.0
C630 HEXACHLOROBENZENE		ND	UG/A	30.0
4-AMINOBIIPHENYL		ND	UG/A	30.0
C635 PENTACHLOROPHENOL		ND	UG/A	150.0
PRONAMIDE		ND	UG/A	30.0
PENTACHLORONITROBENZENE		ND	UG/A	150.0
C640 PHENANTHRENE		ND	UG/A	30.0
C645 ANTHRACENE		ND	UG/A	30.0
2SECBUTYL-4,6-DINITROPHENOL		ND	UG/A	30.0
C647 CARBAZOLE		ND	UG/A	30.0
C650 DI-N-BUTYLPHTHALATE		ND	UG/A	30.0
4-NITROQUINOLINE-1-OXIDE		ND	UG/A	30.0
METHAPYRILENE		ND	UG/A	30.0
ISODRIN		ND	UG/A	30.0
C655 FLUORANTHENE		ND	UG/A	30.0
CHLOROBENZILATE		ND	UG/A	30.0
C710 BENZIDINE		ND	UG/A	300.0
C715 PYRENE		ND	UG/A	30.0
ARAMITE (#1)		ND	UG/A	30.0
ARAMITE (#2)		ND	UG/A	30.0
P-DIMETHYLAMINOAZOBENZENE		ND	UG/A	30.0
3,3'-DIMETHYLBENZIDINE		ND	UG/A	30.0
KEPONE		ND	UG/A	150.0
C720 BUTYLBENZYLPHTHALATE		ND	UG/A	30.0
2-ACETYLAMINOFLUORENE		ND	UG/A	30.0
C730 BENZO(A)ANTHRACENE		ND	UG/A	30.0
C725 3,3'-DICHLOROBENZIDINE		ND	UG/A	60.0
C740 CHRYSENE		ND	UG/A	30.0
C745 BIS(2-ETHYLHEXYL)PHTHA		ND	UG/A	30.0
3-METHYLCHOLANTHRENE		ND	UG/A	30.0
C760 DI-N-OCTYL PHTHALATE		ND	UG/A	30.0
C765 BENZO(B)FLUORANTHENE		ND	UG/A	30.0
7,12-DIMETHYLBENZANTHRACENE		ND	UG/A	30.0
C770 BENZO(K)FLUORANTHENE		ND	UG/A	30.0
HEXACHLOROPHENE		ND	UG/A	30.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSX

Std Id: ST16980831

Sample: SBLKSX 31JUL98-16A 1/3SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 08/31/98 16:02

Analyst: DAT Instrument ID: F16

Run Factor: 3.00

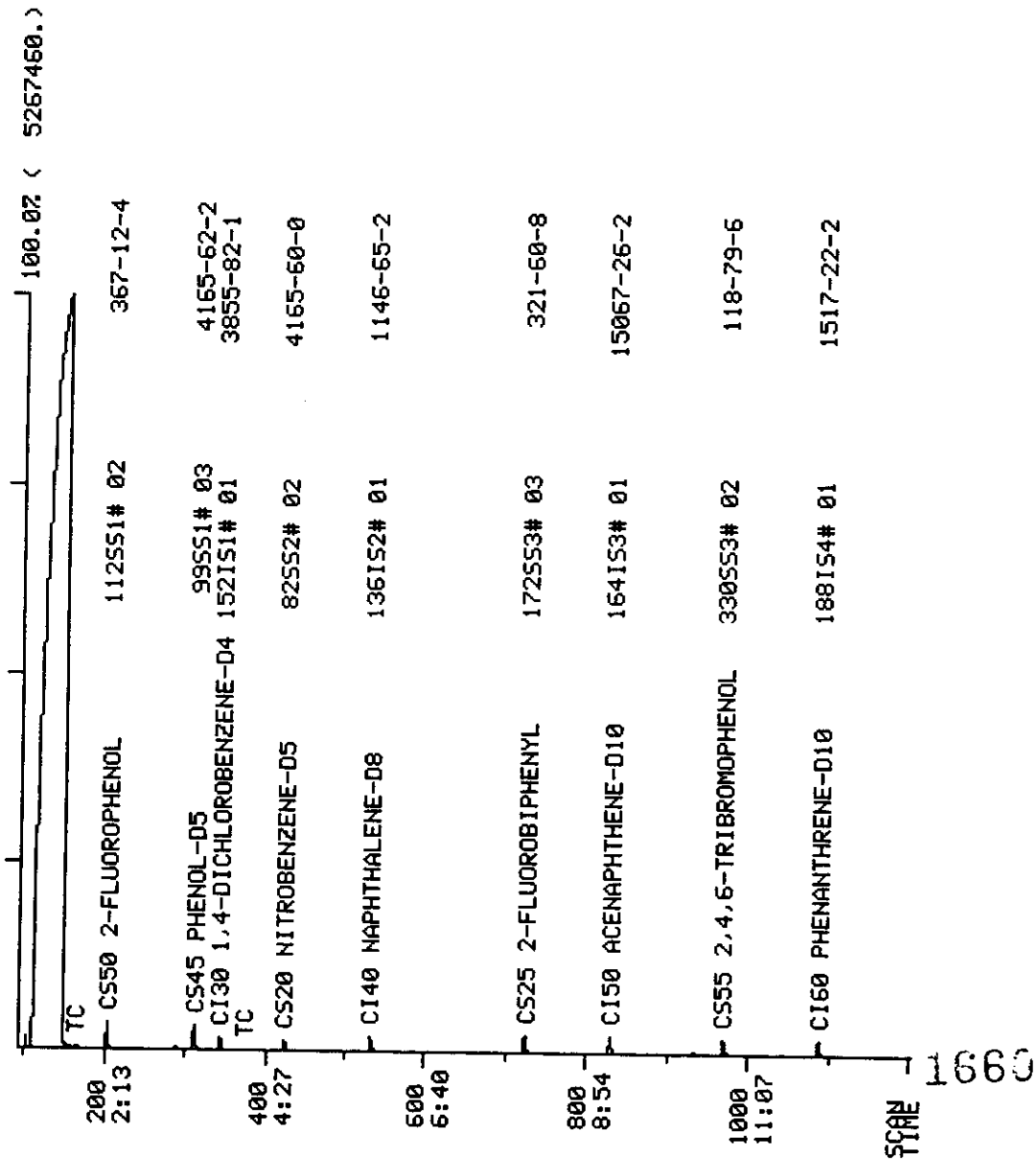
Quan List Threshold: 0.95

Surrogate Vol.: 1.00

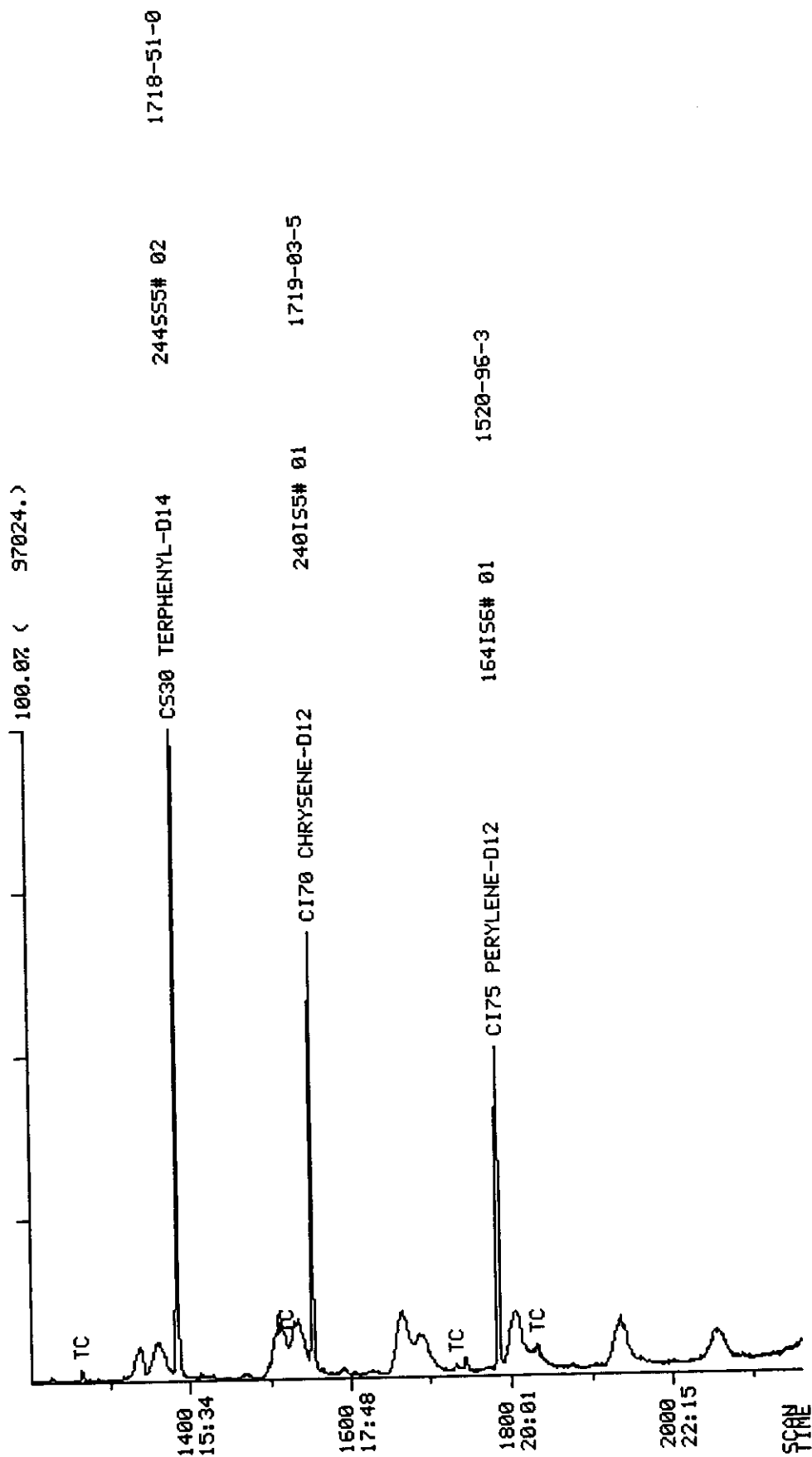
Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting
				Limit
C775 BENZO(A)PYRENE		ND	UG/A	30.0
C780 INDENO(1,2,3-CD)PYRENE		ND	UG/A	30.0
C785 DIBENZ(A,H)ANTHRACENE		ND	UG/A	30.0
C790 BENZO(G,H,I)PERYLENE		ND	UG/A	30.0

DATA FROM FILE: 300681MBSX SCANS 93 TO 1203 ACQUIRED: 08/31/98 16:02:00
 SAMPLE: SBLK5X 31JUL98-16A 1/35A/1ML CALI: 300681MBSX #3
 CONDS.: UG/ML *100Z/100Z *(NA/NA) >1/35A NA M INST. ID: F16



DATA FROM FILE: 300681MBSX SCANS 1203 TO 2158 ACQUIRED: 08/31/98 16:02:00
CALI: 300681MBSX #3
SAMPLE: SBLKSX 31JUL98-16A 1/35A/1ML INST. ID: F16
CONDS.: UG/ML *1ML *100Z/100Z *CNA/NA >1/35A NA M



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~~10/11/94~~

ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 300681MBSX

Sample: SBLKSX 31JUL98-16A 1/3SA/1ML

INST. ID: F16

Analyst: DAT

Instrument Id: F16

Analyzed: 08/31/98 16:02

Compounds with amounts less than 0.20 reported as NOT FOUND

Library		Units: UG/ML					
No Entry	Name	Mass Meth	Scan Ref	Area RRF(L)	Amount		
1 S1# 1	C130 1,4-DICHLOROBENZENE	152 A BB	342 1	36292. 1.000	40.000		
2 S2# 1	C140 NAPHTHALENE-D8	136 A BB	530 2	131128. 1.000	40.000		
3 S3# 1	C150 ACENAPHTHENE-D10	164 A BB	828 3	72270. 1.000	40.000		
4 S4# 1	C160 PHENANTHRENE-D10	188 A BB	1086 4	123798. 1.000	40.000		
5 S5# 1	C170 CHRYSENE-D12	240 A BB	1551 5	64001. 1.000	40.000		
6 S6# 1	C175 PERYLENE-D12	264 A BB	1782 6	47432. 1.000	40.000		
7 S2# 2	CS20 NITROBENZENE-D5	82 A BB	422 2	66532. 0.470	43.222		
8 S3# 3	CS25 2-FLUOROBIPHENYL	172 A BB	723 3	114183. 1.234	51.202		
9 S5# 2	CS30 TERPHENYL-D14	244 A BB	1383 5	84273. 0.995	52.923		
10 S1# 3	CS45 PHENOL-D5	99 A BB	309 1	155502. 2.025	84.617		
11 S1# 2	CS50 2-FLUOROPHENOL	112 A BB	201 1	101569. 1.368	81.818		
12 S3# 2	CS55 2,4,6-TRIBROMOPHENO	330 A BB	968 3	40241. 0.236	94.513		
13 S4# 4	HEXACHLOROBENZENE-C13	294	4 NOT FOUND				
14 S1# 15	C310 N-NITROSODIMETHYLAM	74	1 NOT FOUND				
15 S1# 20	PYRIDINE	79	1 NOT FOUND				
16 S1# 30	2-PICOLINE	93	1 NOT FOUND				
17 S1# 40	N-NITROSOMETHYLETHYLAMIN	42 A VV	162 1	2058. 0.811	2.796		
18 S1# 60	METHYLMETHANESULFONATE	80	1 NOT FOUND				
19 S1# 70	N-NITROSODIETHYLAMINE	102	1 NOT FOUND				
20 S1# 85	ETHYLMETHANE SULFONATE	79	1 NOT FOUND				
21 S1# 95	PENTACHLOROETHANE	117	1 NOT FOUND				
22 S1#100	C320 ANILINE	93	1 NOT FOUND				
23 S1#105	C315 PHENOL	94	1 NOT FOUND				
24 S1#110	C325 BIS(2-CHLOROETHYL)E	93	1 NOT FOUND				
25 S1#115	C330 2-CHLOROPHENOL	128	1 NOT FOUND				
26 S1#125	C335 1,3-DICHLOROBENZENE	146	1 NOT FOUND				
27 S1#130	C340 1,4-DICHLOROBENZENE	146	1 NOT FOUND				
28 S1#145	C345 BENZYL ALCOHOL	108 A BB	372 1	2165. 0.854	2.793		
29 S1#150	C350 1,2-DICHLOROBENZENE	146	1 NOT FOUND				
30 S1#160	C355 2-METHYLPHENOL	108	1 NOT FOUND				
31 S1#165	C360 2,2'-OXYBIS(1-CLPRO	45	1 NOT FOUND				
32 S1#170	C361 ACETOPHENONE	105	1 NOT FOUND				
33 S1#175	N-NITROSOPYRROLIDINE	100	1 NOT FOUND				
34 S1#180	N-NITROSOMORPHOLINE	56	1 NOT FOUND				
35 S1#182	3-METHYL PHENOL	108 A BB	421 1	1034. 2.252	0.506		
36 S1#185	C365 4-METHYLPHENOL	108	1 NOT FOUND				
37 S1#190	C370 N-NITROSO-D1-N-PROP	70	1 NOT FOUND				
38 S1#195	O-TOLUIDINE	106	1 NOT FOUND				
39 S1#200	C375 HEXACHLOROETHANE	117	1 NOT FOUND				
40 S2# 10	C410 NITROBENZENE	77	2 NOT FOUND				
41 S2# 15	N-NITROSOPIPERIDINE	42	2 NOT FOUND				
42 S2# 20	C415 ISOPHORONE	82	2 NOT FOUND				
43 S2# 25	C420 2-NITROPHENOL	139	2 NOT FOUND				
44 S2# 30	C425 2,4-DIMETHYLPHENOL	107	2 NOT FOUND				
45 S2# 35	C435 BIS(2-CHLOROETHOXY)	93	2 NOT FOUND				

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46	S2#	40	C440	2,4-DICHLOROPHENOL	162	2	NOT FOUND
47	S2#	45	C430	BENZOIC ACID	122	2	NOT FOUND
48	S2#	50	AA-DIMETHYLPHENETHYLAMIN	58	2	NOT FOUND	
49	S2#	55	C445	1,2,4-TRICHLOROBENZ	180	2	NOT FOUND

50 S2# 60 C450 NAPHTHALENE	128	2	NOT FOUND
51 S2# 80 C455 4-CHLOROANALINE	127	2	NOT FOUND
52 S2# 85 2,6-DICHLOROPHENOL	162	2	NOT FOUND
53 S2# 90 HEXACHLOROPROPENE	213	2	NOT FOUND
54 S2# 95 C460 HEXACHLOROBUTADIENE	225	2	NOT FOUND
55 S2#115 P-PHENYLENE DIAMINE	108	2	NOT FOUND
56 S2#120 N-NITROSODI-N-BUTYLAMINE	84	2	NOT FOUND
57 S2#130 C465 4-CHLORO-3-METHYLPH	107	2	NOT FOUND
58 S2#140 SAFROLE	162	2	NOT FOUND
59 S2#145 C470 2-METHYLNAPHTHALENE	142	2	NOT FOUND
60 S3# 10 1,2,4,5-TETRACHLOROBENZE	214	3	NOT FOUND
61 S3# 15 ISOSAFROLE (#1)	162	3	NOT FOUND
62 S3# 20 C510 HEXACHLOROCYCLOPENT	237	3	NOT FOUND
63 S3# 25 C515 2,4,6-TRICHLOROPHEN	196	3	NOT FOUND
64 S3# 30 C520 2,4,5-TRICHLOROPHEN	196	3	NOT FOUND
65 S3# 35 ISOSAFROLE (#2)	104	3	NOT FOUND
66 S3# 40 C525 2-CHLORONAPHTHALENE	162	3	NOT FOUND
67 S3# 42 1-CHLORONAPHTHALEN	162	3	NOT FOUND
68 S3# 45 C530 2-NITROANALINE	65	3	NOT FOUND
69 S3# 50 1,4-NAPHTHOQUINONE	158	3	NOT FOUND
70 S3# 55 C535 DIMETHYLPHTHALATE	163	3	NOT FOUND
71 S3# 60 1,3-DINITROBENZENE	168	3	NOT FOUND
72 S3# 65 C540 ACENAPHTHYLENE	152	3	NOT FOUND
73 S3# 70 C543 2,6-DINITROTOLUENE	165	3	NOT FOUND
74 S3# 75 C545 3-NITROANILINE	138	3	NOT FOUND
75 S3# 80 C550 ACENAPHTHENE	153	3	NOT FOUND
76 S3# 85 C555 2,4-DINITROPHENOL	184	3	NOT FOUND
77 S3# 90 C565 DIBENZOFURAN	168	3	NOT FOUND
78 S3# 95 C560 4-NITROPHENOL	109	3	NOT FOUND
79 S3#100 PENTACHLOROBENZENE	250	3	NOT FOUND
80 S3#105 C570 2,4-DINITROTOLUENE	165	3	NOT FOUND
81 S3#110 1-NAPHTHYLAMINE	143	3	NOT FOUND
82 S3#115 2-NAPHTHYLAMINE	143	3	NOT FOUND
83 S3#120 2,3,4,6-TETRACHLOROPHENO	232	3	NOT FOUND
84 S3#130 C580 DIETHYLPHTHALATE	149	3	NOT FOUND
85 S3#135 C590 FLUORENE	166	3	NOT FOUND
86 S3#140 C585 4-CHLOROPHENYL-PHEN	204	3	NOT FOUND
87 S3#145 5-NITRO-O-TOLUIDINE	152	3	NOT FOUND
88 S3#150 C595 4-NITROANALINE	138	3	NOT FOUND
89 S4# 10 C610 4,6-DINITRO-2-METHY	198	4	NOT FOUND
90 S4# 15 C615 N-NITROSODIPHENYLAM	169 A BV	961 4	792. 0.551 0.465
91 S4# 20 C620 AZOBENZENE	77	4	NOT FOUND
92 S4# 25 SYM-TRINITROBENZENE	75	4	NOT FOUND
93 S4# 30 C625 4-BROMOPHENYL-PHENY	248	4	NOT FOUND
94 S4# 35 PHENACETIN	108	4	NOT FOUND
95 S4# 37 DIALLATE	234	4	NOT FOUND
96 S4# 40 C630 HEXACHLOROBENZENE	284	4	NOT FOUND
97 S4# 45 4-AMINOBIIPHENYL	169	4	NOT FOUND
98 S4# 50 C635 PENTACHLOROPHENOL	266	4	NOT FOUND
99 S4# 55 PRONAMIDE	173	4	NOT FOUND
100 S4# 60 PENTACHLORONITROBENZENE	237	4	NOT FOUND
101 S4# 65 C640 PHENANTHRENE	178	4	NOT FOUND
102 S4# 70 C645 ANTHRACENE	178	4	NOT FOUND
103 S4# 75 2SECBUTYL-4,6-DINITROPHE	211	4	NOT FOUND
104 S4# 80 C647 CARBAZOLE	167	4	NOT FOUND
105 S4# 85 C650 DI-N-BUTYLPHTHALATE	149 A BB	1226 4	1220. 1.247 0.316
106 S4#100 4-NITROQUINOLINE-1-OXIDE	190	4	NOT FOUND
107 S4#105 METHAPYRILENE	58 A BB	1264 4	1726. 0.305 1.830
108 S4#106 ISODRIN	193	4	NOT FOUND
109 S4#110 C655 FLUORANTHENE	202	4	NOT FOUND
110 S4#120 CHLOROBENZILATE	139 A BB	1426 4	356. 0.313 0.368

111 S5# 10 C710 BENZIDINE	184	5	NOT FOUND		
112 S5# 15 C715 PYRENE	202	5	NOT FOUND		
113 S5# 20 ARAMITE (#1)	185	5	NOT FOUND		
114 S5# 25 ARAMITE (#2)	185	5	NOT FOUND		
115 S5# 30 P-DIMETHYLAMINOAZOBENZEN	120 A BB	1412	5	590. 0.419	0.880
116 S5# 35 3,3'-DIMETHYLBENZIDINE	212	5	NOT FOUND		
117 S5# 37 KEPONE	272	5	NOT FOUND		
118 S5# 40 C720 BUTYLBENZYLPHTHALAT	149	5	NOT FOUND		
119 S5# 45 2-ACETYLAMINOFLUORENE	181 A BB	1518	5	960. 0.432	1.388
120 S5# 50 C730 BENZO(A)ANTHRACENE	228	5	NOT FOUND		
121 S5# 55 C725 3,3'-DICHLOROBENZID	252 A BB	1563	5	636. 0.408	0.974
122 S5# 60 C740 CHRYSENE	228	5	NOT FOUND		
123 S5# 65 C745 BIS(2-ETHYLHEXYL)PH	149 A BB	1603	5	350. 0.980	0.223
124 S5# 85 3-METHYLCHOLANTHRENE	268 A BB	1831	5	1012. 0.548	1.154
125 S6# 10 C760 DI-N-OCTYL PHTHALAT	149	6	NOT FOUND		
126 S6# 15 C765 BENZO(B)FLUORANTHEN	252	6	NOT FOUND		
127 S6# 20 7,12-DIMETHYLBENZANTHRAC	256 A BB	1730	6	688. 0.610	0.951
128 S6# 25 C770 BENZO(K)FLUORANTHEN	252	6	NOT FOUND		
129 S6# 30 HEXACHLOROPHENE	196	6	NOT FOUND		
130 S6# 35 C775 BENZO(A)PYRENE	252	6	NOT FOUND		
131 S6# 55 C780 INDENO(1,2,3-CD)PYR	276	6	NOT FOUND		
132 S6# 60 C785 DIBENZ(A,H)ANTHRACE	278	6	NOT FOUND		
133 S6# 65 C790 BENZO(G,H,I)PERYLEN	276	6	NOT FOUND		

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.=+200	4.28		200864.=+200	6.40		108695.=+200	9.71	
Lower Limit	14324.=+ 50	3.28		50216.=+ 50	5.40		27174.=+ 50	8.71	
Filename									
1 300681MBSX	36292.= 126	3.80		131128.= 130	5.90		72270.= 132	9.21	

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.=+200	12.58		124578.=+200	17.76		101500.=+200	20.33	
Lower Limit	49260.=+ 50	11.58		31145.=+ 50	16.76		25375.=+ 50	19.33	
Filename									
1 300681MBSX	123798.= 125	12.08		64001.= 102	17.25		47432.= 93	19.82	

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

Data Reduced by: 2 Date: 9/16/98
Data Reviewed by: ✓ Date: 10/9/98

Data File: 300681MBSX

QUANTERRA GC/MS TIC REPORT (Part 1)

Sample: SBLKSX 31JUL98-16A 1/3SA/1ML
Analyst: DAT

INST. ID: F16
Date Analyzed: 08/31/98 16:02
Run Factor: 3.00

# SCAN	Concentration in Sample (UG/A)	CAS #
1 288	29.	100-52-7
BENZALDEHYDE Or isomer		
2 932	22.	~~74381-40-1~~
~~PROPANOIC ACID, 2-METHYL-, 1-(1,1-DIMETHYLETHYL)-2-METHYL-1,3-PROPANE!~~		
<u>Unknown 5700</u>		
3 1338	19.	~~20324-33-8~~
~~2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-~~		
<u>Unknown 5700</u>		
4 1360	28.	~~3588-28-8~~
~~1-PROPANOL, 2-(2-METHOXYPROPOXY)~~		
<u>Unknown 5700</u>		
5 1509	27.	00-00-0
UNKNOWN		
6 1533	33.	00-00-0
UNKNOWN		
7 1661	33.	00-00-0
UNKNOWN		
8 1690	21.	00-00-0
UNKNOWN		
9 1803	51.	00-00-0
UNKNOWN		
10 1933	39.	00-00-0
UNKNOWN		

1697

11 2052 15. 00-00-0
UNKNOWN

12 2057 21. 00-00-0
UNKNOWN

DATA FILE: 300681MBSX

QUANTERRA GC/MS TIC REPORT (Part 2)

CONCENTRATION = AREA(TIC)*CONC(1S)/AREA(1S)

			INT.				AMOUNT			
							AS ANALYZED			
#	FIT	PURITY	STD.	RT	RRT	AREA	HEIGHT	(UG/ML)	LIB	LIB #
1	967	920	1	3:12	0.543	63822.	16736.	9.581	NB	2017.
2	928	789	2	10:21	1.126	58873.	17802.	7.266	NB	40501.
3	848	680	4	14:52	0.863	32240.	3764.	6.454	NB	24247.
4	871	757	4	15:07	0.877	45936.	3636.	9.195	NB	9228.
5	808	625	4	16:47	0.973	44204.	6352.	8.849	UK	1.
6	812	599	4	17:03	0.988	55272.	4496.	11.064	UK	1.
7	839	463	4	18:28	1.071	54732.	5216.	10.956	UK	1.
8	771	524	5	18:47	0.948	27952.	2224.	7.142	UK	1.
9	651	406	5	20:03	1.012	65928.	5408.	16.845	UK	1.
10	844	425	5	21:30	1.085	51292.	4584.	13.105	UK	1.
11	722	310	5	22:49	1.152	20187.	3052.	5.158	UK	1.
12	748	422	5	22:52	1.154	26821.	3087.	6.853	UK	1.

Library Search Data: 300681MBSX # 288 Base m/z: 77
 08/31/98 16:02:00 + 3:12 Cali: 300681MBSX # 3 RIC: 14800.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 366 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 2017 BENZALDEHYDE
 2 7284 BENZOYL CHLORIDE
 3 6466 ETHANONE, 2-HYDROXY-1-PHENYL-
 4 2014 2,4-HEPTADIEN-6-YNAL, (E,E)-
 5 9645 BENZOYLFORMIC ACID
 6 10676 ETHANONE, 2-CHLORO-1-PHENYL-
 7 13112 BENZOYL ISOTHIOCYANATE
 8 13709 N-METHOXY-N-METHYLBENZAMIDE
 9 6857 BENZENECARBOTHIOIC ACID

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H6.O	106	77	920	967	940
2	C7.H5.O.CL	140	105	817	875	830
3	C8.H8.O2	136	105	804	845	821
4	C7.H6.O	106	105	802	844	808
5	C8.H6.O3	150	105	779	850	804
6	C8.H7.O.CL	154	105	773	841	798
7	C8.H5.O.N.S	163	105	772	823	789
8	C9.H11.O2.N	165	105	763	812	793
9	C7.H6.O.S	138	77	762	847	808

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	100-52-7
2	—	—	—	—	98-88-4
3	—	—	—	—	582-24-1
4	—	—	—	—	7200-04-6
5	—	—	—	—	611-73-4
6	—	—	—	—	532-27-4
7	—	—	—	—	532-55-8
8	—	—	—	—	6919-61-5
9	—	—	—	—	98-91-9

DATA: 300581MBSX # 288
CALI: 300581MBSX # 3
INST. ID: F15
NA M

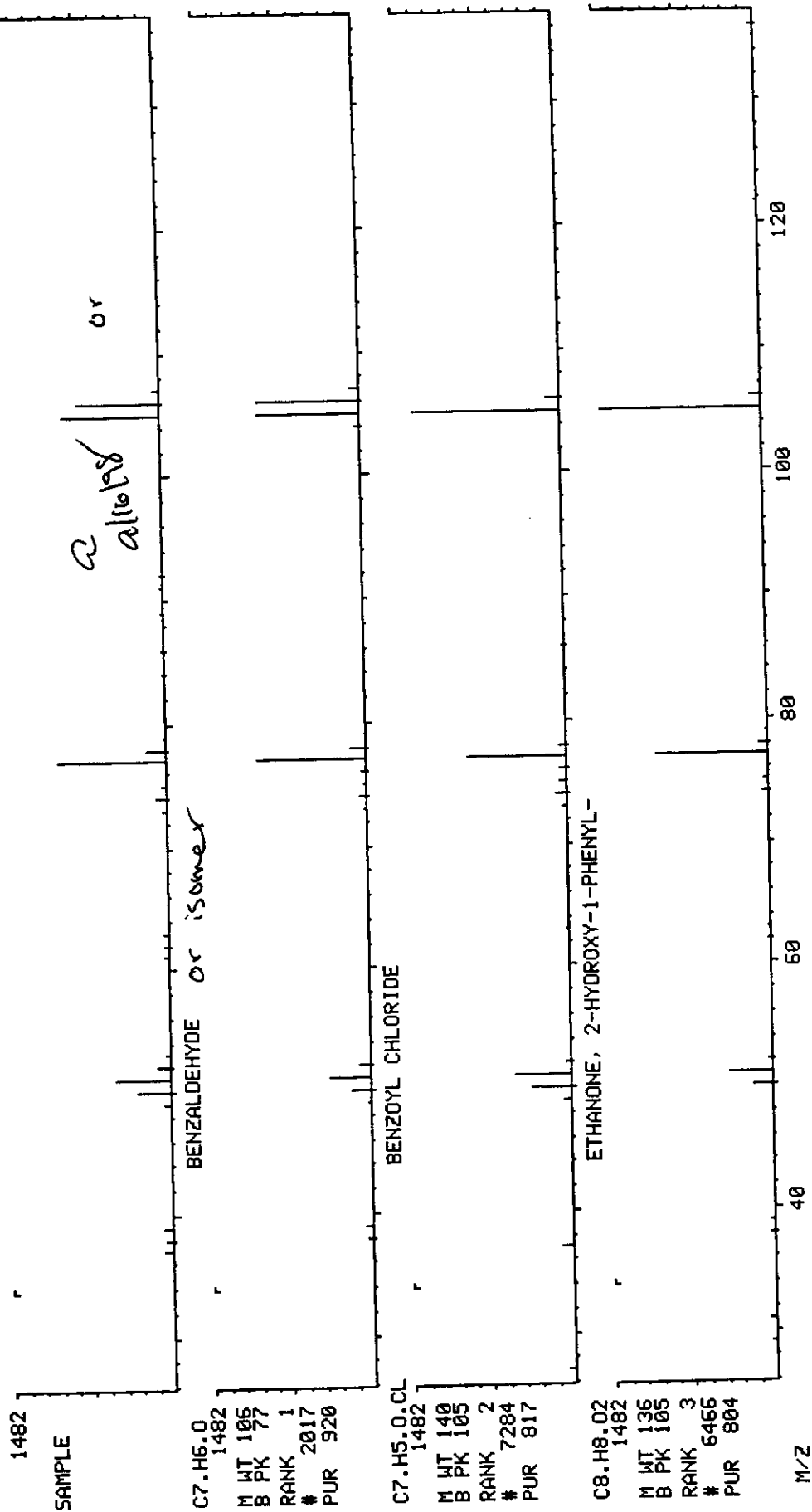
MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 16:02:00 + 3:12

SAMPLE: 5BLK5X 31JUL98-16A 1/35A/1ML

COND.: UG/ML *1ML *100%/100% *(NA/NA) >1/35A

ENHANCED (S 15B 2N 0T)



1671

Library Search Data: 300681MBSX # 932 Base m/z: 71
 08/31/98 16:02:00 + 10:22 Cali: 300681MBSX # 3 RIC: 16896.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 691 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 40501 PROPANOIC ACID, 2-METHYL-, 1-(1,1-DIMETHYLETHYL)-2-METHYL-1,3-PROPA*
 2 40500 PROPANOIC ACID, 2-METHYL-, 2-ETHYL-1-PROPYL-1,3-PROPANEDIYL ESTER
 3 26739 PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(2-HYDROXY-1-METHYLETHYL)*
 4 4625 1-HEXENE, 3,4,5-TRIMETHYL-
 5 4556 ETHANONE, 1-(3-ETHYLCYCLOBUTYL)-
 6 2720 4,4-DIMETHYL-1-HEXENE
 7 4677 2,4,4-TRIMETHYL-1-HEXENE
 8 14787 1-NONENE, 4,6,8-TRIMETHYL-
 9 15779 1,2-CYCLOHEXANEDIOL, 1-METHYL-4-(1-METHYLETHYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H30.O4	286	71	789	928	811
2	C16.H30.O4	286	43	727	882	737
3	C12.H24.O3	216	71	704	883	723
4	C9.H18	126	43	589	807	665
5	C8.H14.O	126	43	586	752	623
6	C8.H16	112	71	579	794	630
7	C9.H18	126	71	546	720	644
8	C12.H24	168	43	531	715	557
9	C10.H20.O2	172	71	518	701	641

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	74381-40-1
2	—	—	—	—	74367-30-9
3	—	—	—	—	74367-33-2
4	—	—	—	—	56728-10-0
5	—	—	—	—	56335-71-8
6	—	—	—	—	1647-08-1
7	—	—	—	—	51174-12-0
8	—	—	—	—	54410-98-9
9	—	—	—	—	33669-76-0

DATA: 300681MBSX # 932
CALI: 300681MBSX # 3
BASE M/Z: 71
RIC: 16896.

MID LIBRARY SEARCH (LIBRARYNB)

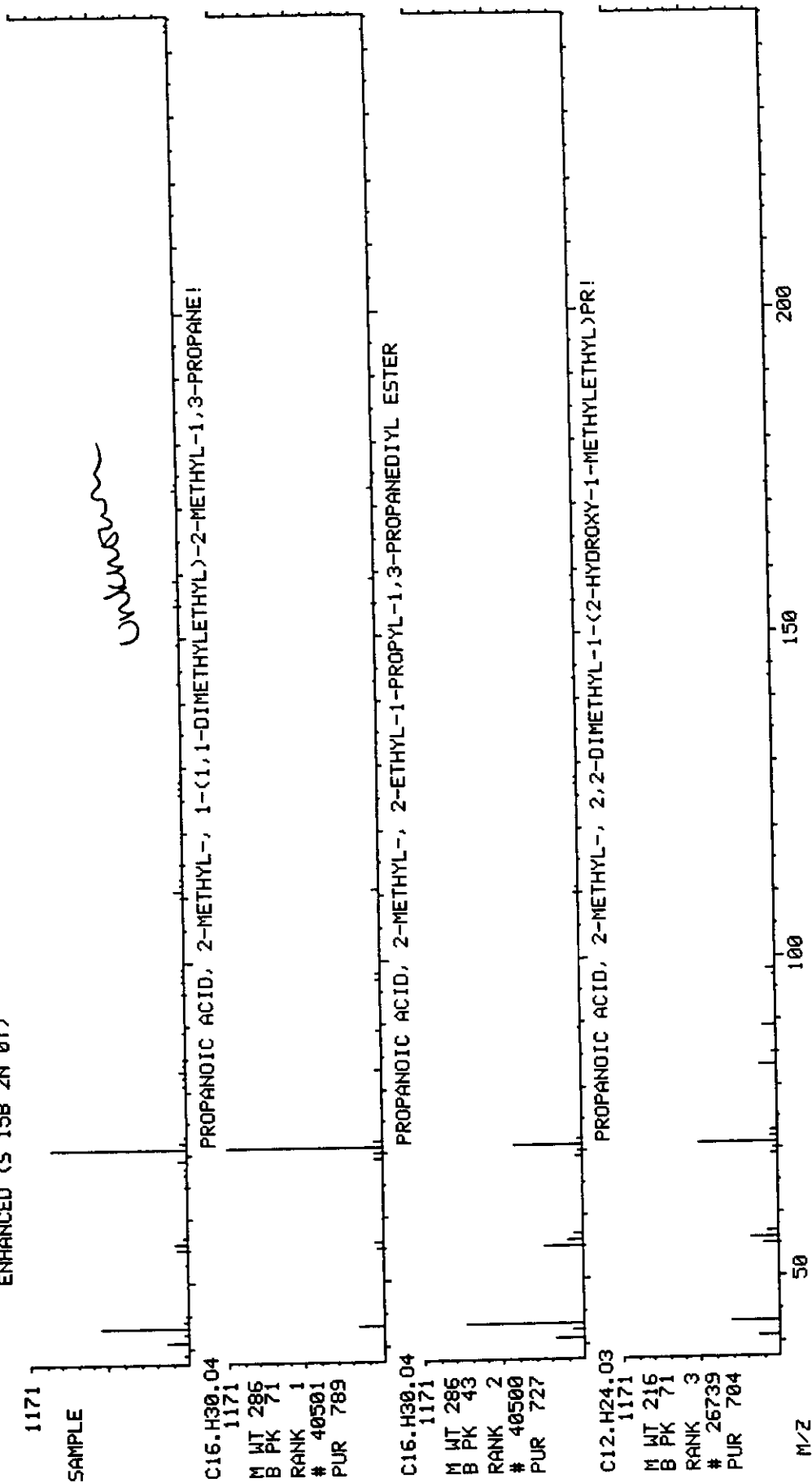
08/31/98 16:02:00 + 10:22

SAMPLE: SBLKX 31JUL98-16A 1/35A/1ML

CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA) >1/35A NA M

ENHANCED (S 15B 2N 0T)

INST. ID: F16



Library Search Data: 300681MBSX #1338 Base m/z: 59
 08/31/98 16:02:00 + 14:53 Cali: 300681MBSX # 3 RIC: 2672.
 Sample: SBLK SX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 842 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name
 1 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 2 16192 2-PROPANOL, 1-[1-METHYL-2-(2-PROPENYLOXY)ETHOXY]-
 3 36537 2,5,8,11-TETRAOXATETRADECAN-13-OL, 4,7,10-TRIMETHYL-
 4 9228 1-PROPANOL, 2-(2-METHOXYPROPOXY)-
 5 5522 2-HEXANOL, 2,3-DIMETHYL-
 6 20626 2-PROPANOL, 1,1'-[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-
 7 3000 OXIRANE, 2,2-DIMETHYL-3-PROPYL-
 8 5527 2-HEPTANOL, 2-METHYL-
 9 9235 1-PROPANOL, 2-(2-METHOXY-1-METHYLETHOXY)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22.O4	206	59	680	848	701
2	C9.H18.O3	174	59	611	777	635
3	C13.H28.O5	264	59	609	752	704
4	C7.H16.O3	148	59	575	843	588
5	C8.H18.O	130	59	573	830	614
6	C9.H20.O4	192	59	559	777	597
7	C7.H14.O	114	43	555	811	581
8	C8.H18.O	130	59	539	890	573
9	C7.H16.O3	148	59	533	744	543

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	20324-33-8
2	—	—	—	—	55956-25-7
3	—	—	—	—	20324-34-9
4	—	—	—	—	13588-28-8
5	—	—	—	—	19550-03-9
6	—	—	—	—	1638-16-0
7	—	—	—	—	17612-35-0
8	—	—	—	—	625-25-2
9	—	—	—	—	55956-21-3

DATA: 300681MB5X #1338
CALI: 300681MB5X # 3
INST. ID: F16
NA M

BASE M/Z: 59
RIC: 2672.

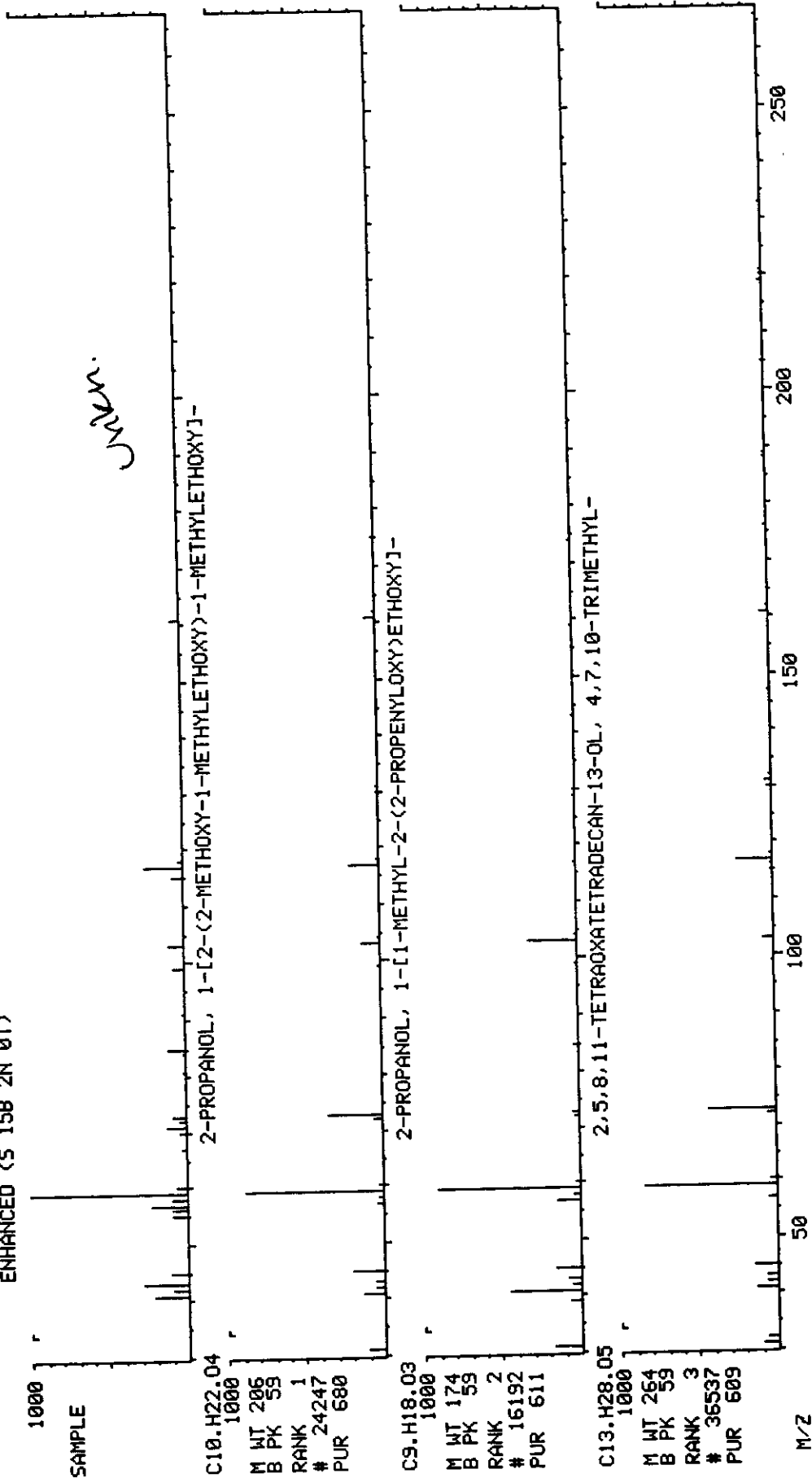
MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 16:02:00 + 14:53

SAMPLE: SBLK5X 31JUL98-16A 1/35A/1ML

CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA) /1/35A

ENHANCED (S 158 2N 0T)



Library Search Data: 300681MBSX #1360 Base m/z: 59
 08/31/98 16:02:00 + 15:08 Cali: 300681MBSX # 3 RIC: 2164.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 469 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9228	1-PROPANOL, 2-(2-METHOXYPROPOXY)-
2	24247	2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
3	1775	PENTANE, 2-METHOXY-
4	5826	2-PROPANOL, 1-ISOPROPOXY-2-METHYL-
5	1778	3-PENTANOL, 2-METHYL-
6	3331	HYDRAZINE, 2-BUTYL-1,1-DIMETHYL-
7	915	1,2-BUTANEDIOL
8	1788	BUTANE, 2-METHOXY-3-METHYL-
9	3333	HYDRAZINE, 1,1-DIMETHYL-2-(1-METHYLPROPYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O3	148	59	757	871	777
2	C10.H22.O4	206	59	644	721	798
3	C6.H14.O	102	59	630	916	658
4	C7.H16.O2	132	59	600	743	669
5	C6.H14.O	102	59	590	851	627
6	C6.H16.N2	116	59	583	742	625
7	C4.H10.O2	90	59	565	814	660
8	C6.H14.O	102	59	555	901	595
9	C6.H16.N2	116	59	555	658	632

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	13588-28-8
2	—	—	—	—	20324-33-8
3	—	—	—	—	6795-88-6
4	—	—	—	—	3587-75-5
5	—	—	—	—	565-67-3
6	—	—	—	—	54007-23-7
7	—	—	—	—	584-03-2
8	—	—	—	—	62016-49-3
9	—	—	—	—	54007-24-8

DATA: 300681MBSX #1350
CALI: 300681MBSX # 3
INST. ID: F16

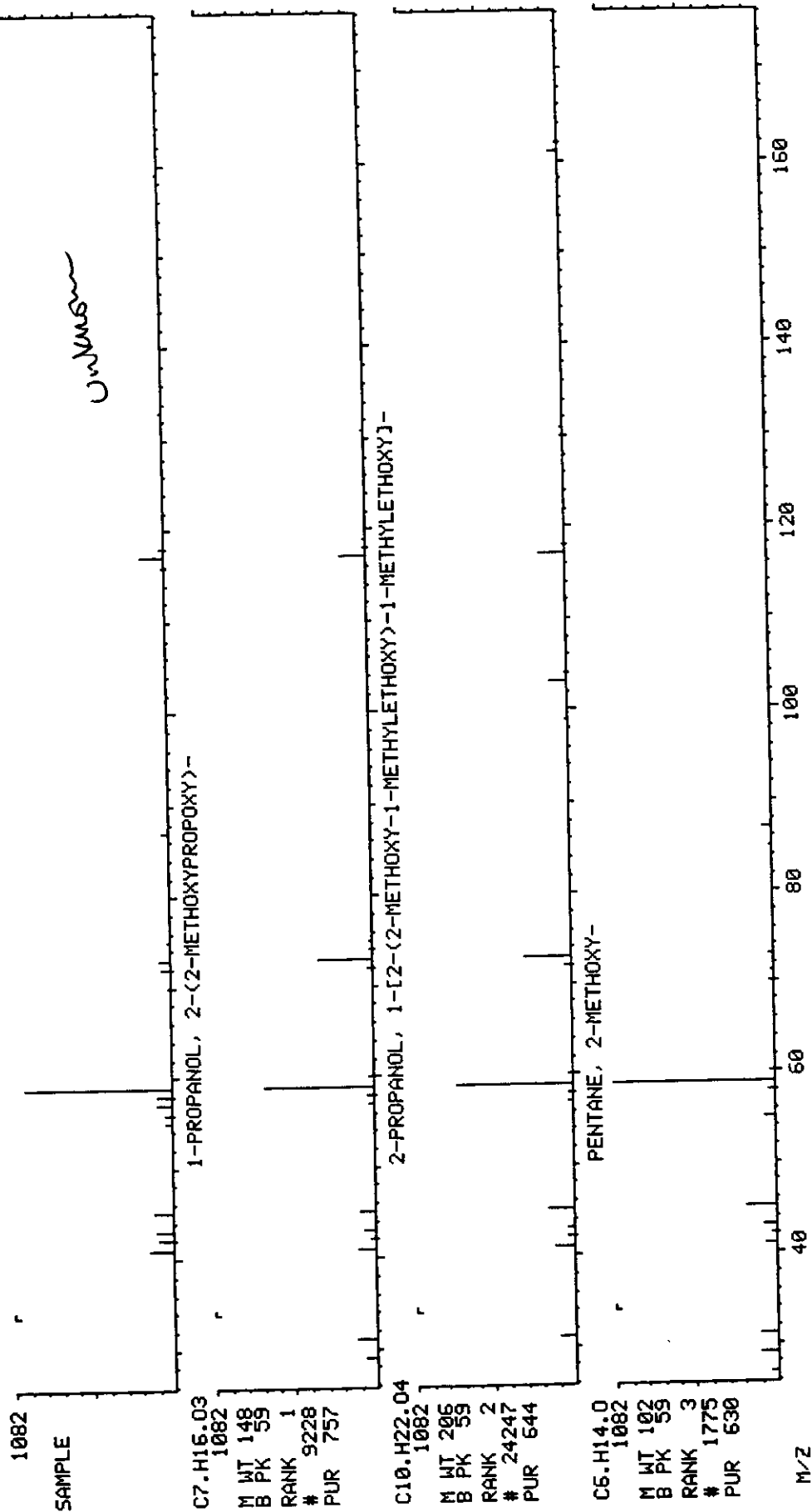
MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 16:02:00 + 15:08

SAMPLE: 58LKSX 31JUL98-16A 1/35A/1ML

CONDS.: UG/ML *1ML *1002/1002 *(NA/NA) >1/35A NA M

ENHANCED (S 15B 2N 0T)



Library Search Data: 300681MBSX #1509 Base m/z: 59
 08/31/98 16:02:00 + 16:47 Cal: 300681MBSX # 3 RIC: 4384.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYN8 searched for maximum PURITY
 991 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 2 36537 2,5,8,11-TETRAOXATETRADECAN-13-OL, 4,7,10-TRIMETHYL-
 3 9228 1-PROPANOL, 2-(2-METHOXYPROPOXY)-
 4 3502 BUTANOIC ACID, 3-HYDROXY-3-METHYL-
 5 16192 2-PROPANOL, 1-[1-METHYL-2-(2-PROPENYLOXY)ETHOXY]-
 6 20626 2-PROPANOL, 1,1'-[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-
 7 3522 2,3-BUTANEDIOL, 2,3-DIMETHYL-
 8 9235 1-PROPANOL, 2-(2-METHOXY-1-METHYLETHOXY)-
 9 5522 2-HEXANOL, 2,3-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22.O4	206	59	625	808	636
2	C13.H28.O5	264	59	618	815	659
3	C7.H16.O3	148	59	552	814	564
4	C5.H10.O3	118	59	534	780	623
5	C9.H18.O3	174	59	511	717	537
6	C9.H20.O4	192	59	492	733	526
7	C6.H14.O2	118	59	483	911	498
8	C7.H16.O3	148	59	471	690	480
9	C8.H18.O	130	59	459	758	512

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	20324-33-8
2	—	—	—	—	20324-34-9
3	—	—	—	—	13588-28-8
4	—	—	—	—	625-08-1
5	—	—	—	—	55956-25-7
6	—	—	—	—	1638-16-0
7	—	—	—	—	76-09-5
8	—	—	—	—	55956-21-3
9	—	—	—	—	19550-03-9

DATA: 300681MBSX #1509
CALI: 300681MBSX # 3
INST. ID: F16

BASE M/Z: 59
RIC: 4384.

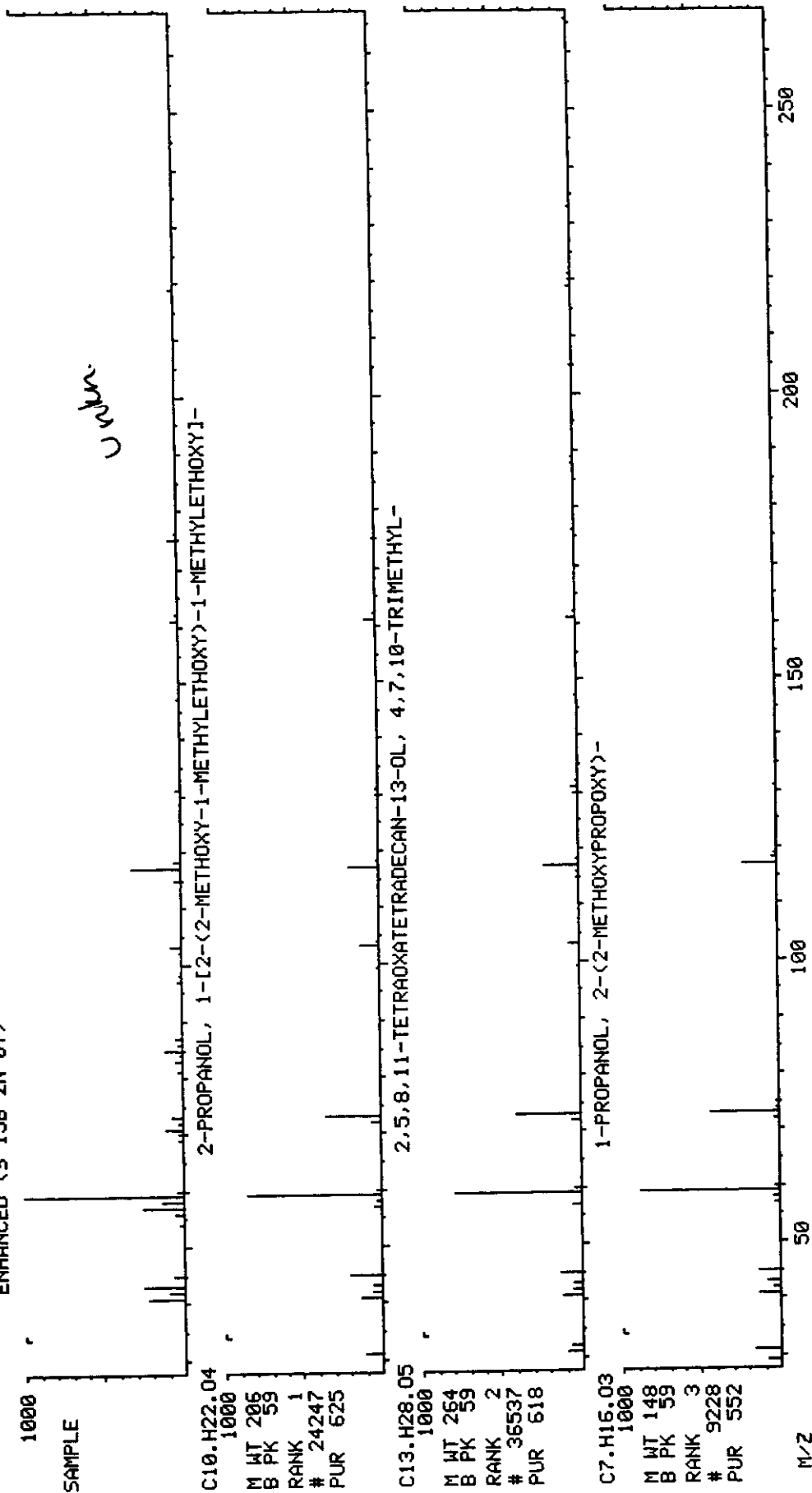
MID LIBRARY SEARCH (LIBRARYNB)

08/31/98 16:02:00 + 16:47

SAMPLE: SBLKX 31JUL98-16A 1/35A/1ML

CONDS.: UG/ML *1ML *1002/1002 *(NA/NA) >1/35A NA M

ENHANCED (S 15B 2N 0T)



Library Search Data: 300681MBSX #1533 Base m/z: 59
 08/31/98 16:02:00 + 17:03 Cali: 300681MBSX # 3 RIC: 3384.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum PURITY
 427 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9228	1-PROPANOL, 2-(2-METHOXYPROPOXY)-
2	5826	2-PROPANOL, 1-ISOPROPOXY-2-METHYL-
3	24247	2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
4	5506	2,3,3-TRIMETHYL-2-PENTANOL
5	334	2-PROPANOL, 2-METHYL-
6	11721	NONANAMIDE
7	1618	BUTANAMIDE, 3-METHYL-
8	3366	2-PENTANOL, 2,4-DIMETHYL-
9	329	PROPANE, 2-METHOXY-

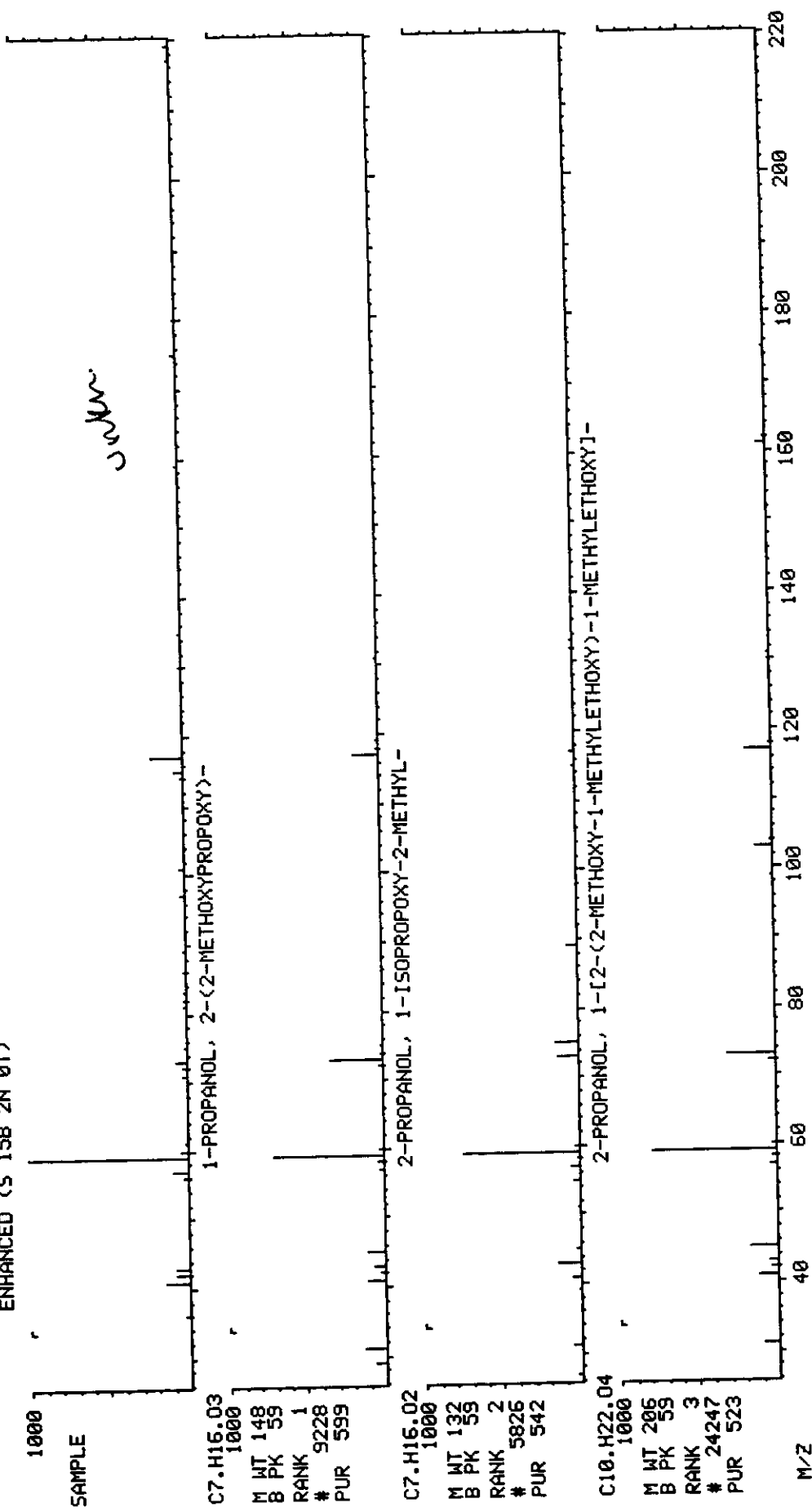
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O3	148	59	599	812	663
2	C7.H16.O2	132	59	542	721	581
3	C10.H22.O4	206	59	523	673	699
4	C8.H18.O	130	59	513	844	576
5	C4.H10.O	74	59	508	936	536
6	C9.H19.O.N	157	59	492	755	559
7	C5.H11.O.N	101	59	487	804	570
8	C7.H16.O	116	59	475	863	530
9	C4.H10.O	74	59	475	899	525

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	13588-28-8
2	—	—	—	—	3587-75-5
3	—	—	—	—	20324-33-8
4	—	—	—	—	23171-85-9
5	—	—	—	—	75-65-0
6	—	—	—	—	1120-07-6
7	—	—	—	—	541-46-8
8	—	—	—	—	625-06-9
9	—	—	—	—	598-53-8

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 16:02:00 + 17:03
 SAMPLE: 5BLK5X 31JUL98-16A 1/35A/1ML
 CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)

DATA: 300581MBSX #1533
 CALI: 300581MBSX # 3
 INST. ID: F16

BASE M/Z: 59
 RIC: 3384.



Library Search Data: 300681MBSX #1661 Base m/z: 59
 08/31/98 16:02:00 + 18:29 Cali: 300681MBSX # 3 RIC: 3272.
 Sample: SBLKX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

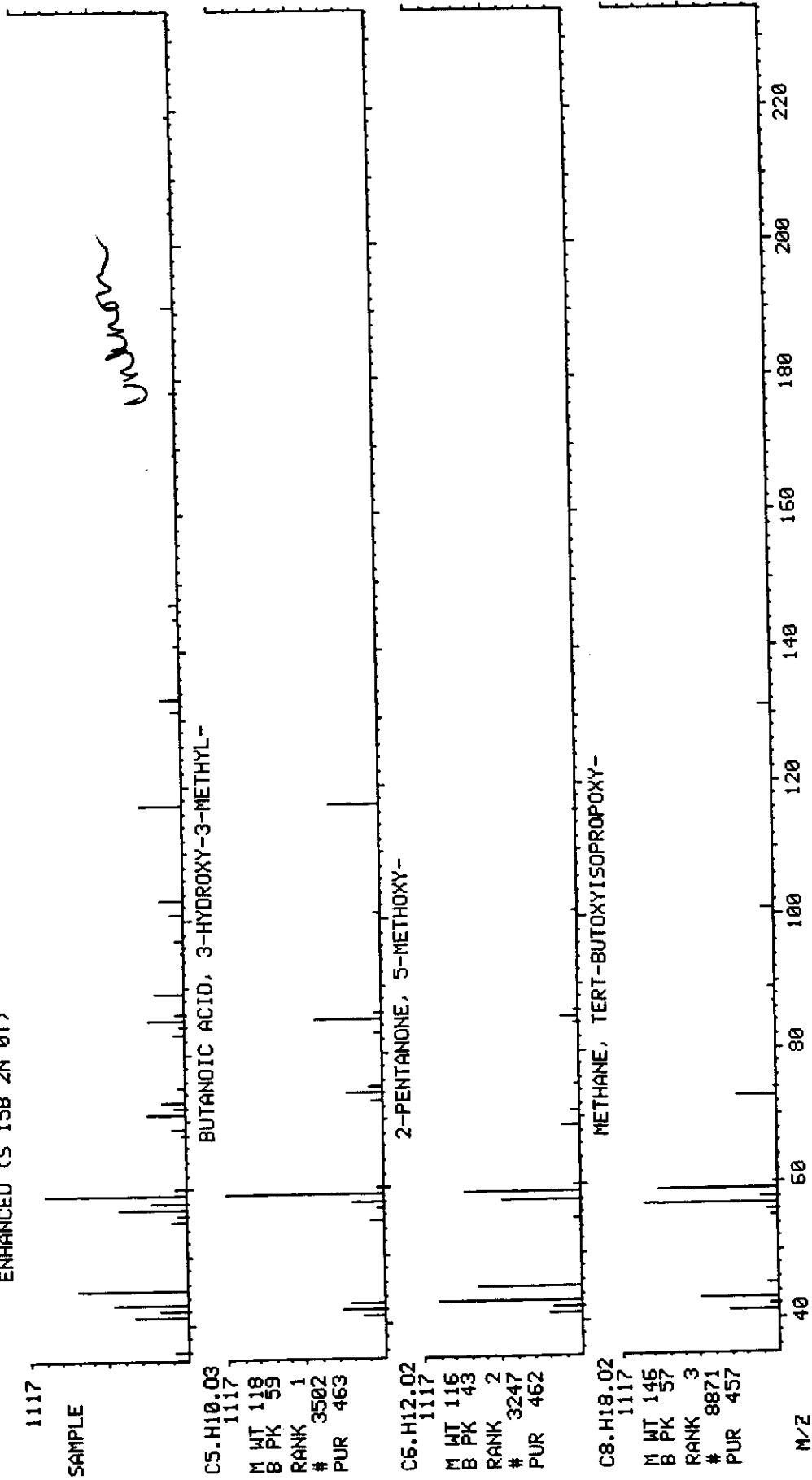
62231 spectra in LIBRARYNB searched for maximum PURITY
 295 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3502	BUTANOIC ACID, 3-HYDROXY-3-METHYL-
2	3247	2-PENTANONE, 5-METHOXY-
3	8871	METHANE, TERT-BUTOXYISOPROPOXY-
4	16192	2-PROPANOL, 1-[1-METHYL-2-(2-PROPENYLOXY)ETHOXY]-
5	23273	ETHANEDIOIC ACID, BIS(1-METHYLPROPYL) ESTER
6	5810	2-PENTANOL, 5-METHOXY-2-METHYL-
7	9227	1,3,3-TRIMETHOXYBUTANE
8	5832	2-PROPANOL, 1-(1-METHYLPROPOXY)-
9	24247	2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H10.O3	118	59	463	839	501
2	C6.H12.O2	116	43	462	902	468
3	C8.H18.O2	146	57	457	852	464
4	C9.H18.O3	174	59	453	738	477
5	C10.H18.O4	202	57	448	696	476
6	C7.H16.O2	132	59	447	834	478
7	C7.H16.O3	148	45	446	717	463
8	C7.H16.O2	132	43	445	748	519
9	C10.H22.O4	206	59	441	755	491

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	625-08-1
2	—	—	—	—	17429-04-8
3	—	—	—	—	4346-01-4
4	—	—	—	—	55956-25-7
5	—	—	—	—	13784-89-9
6	—	—	—	—	55724-04-4
7	—	—	—	—	6607-66-5
8	—	—	—	—	53907-95-2
9	—	—	—	—	20324-33-8

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 15:02:00 + 18:29
 SAMPLE: 5BLK5X 31JUL98-16A 1/35A/1ML
 CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 300681MBSX #1661
 CALI: 300681MBSX # 3
 F15
 INST. ID: NA M
 BASE M/Z: 59
 RIC: 3272.



Library Search Data: 300681MBSX #1690 Base m/z: 59
 08/31/98 16:02:00 + 18:48 Cali: 300681MBSX # 3 RIC: 1908.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 158 2N 0T)

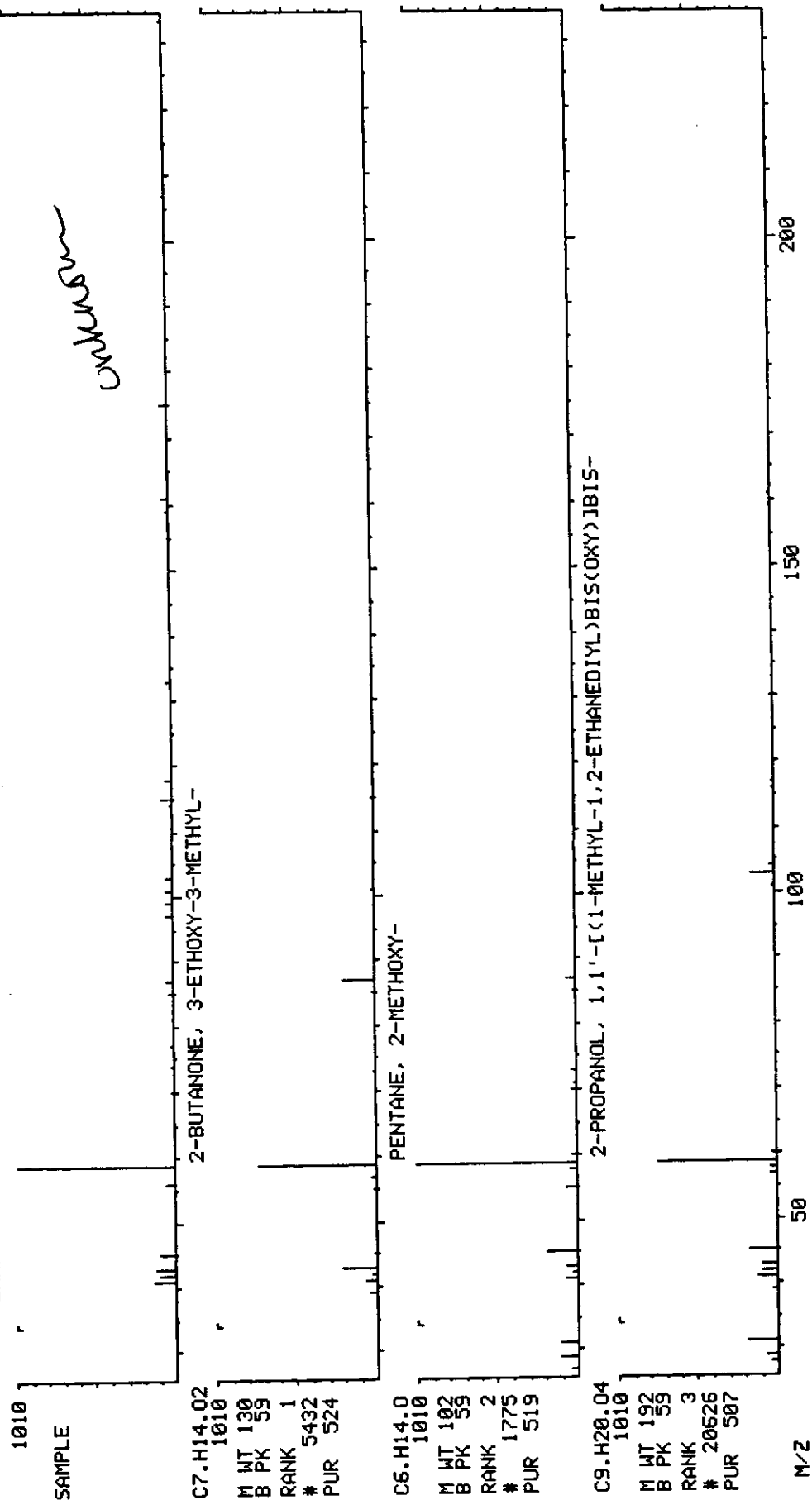
62231 spectra in LIBRARYNB searched for maximum PURITY
 360 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 5432 2-BUTANONE, 3-ETHOXY-3-METHYL-
 2 1775 PENTANE, 2-METHOXY-
 3 20626 2-PROPANOL, 1,1'-[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-
 4 1694 3-HYDROXY-3-METHYL-2-BUTANONE
 5 5527 2-HEPTANOL, 2-METHYL-
 6 1760 2-PENTANOL, 2-METHYL-
 7 6082 1-PROPANOL, 2-(2-HYDROXYPROPOXY)-
 8 8432 2-HEXANONE, 3-HYDROXY-3,5-DIMETHYL-
 9 16649 1-PROPANOL, 3-[3-(1-METHYLETHOXY)PROPOXY]-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H14.O2	130	59	524	771	547
2	C6.H14.O	102	59	519	855	587
3	C9.H20.O4	192	59	507	769	587
4	C5.H10.O2	102	59	496	854	550
5	C8.H18.O	130	59	491	784	615
6	C6.H14.O	102	59	490	818	540
7	C6.H14.O3	134	59	480	782	529
8	C8.H16.O2	144	59	478	782	581
9	C9.H20.O3	176	59	477	748	552

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	36687-99-7
2	—	—	—	—	6795-88-6
3	—	—	—	—	1638-16-0
4	—	—	—	—	115-22-0
5	—	—	—	—	625-25-2
6	—	—	—	—	590-36-3
7	—	—	—	—	106-62-7
8	—	—	—	—	6321-14-8
9	—	—	—	—	54518-03-5

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 16:02:00 + 18:48
 SAMPLE: SBLK5X 31JUL98-16A 1/35A/1ML
 CONDS.: UG/ML *1ML *1002/1002 *(NA/NA)/1/35A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 300681MBSX #1690
 CALI: 300681MBSX # 3
 INST. ID: F16
 BASE M/Z: 59
 RIC: 1908.



Library Search Data: 300681MBSX #1803 Base m/z: 59
 08/31/98 16:02:00 + 20:03 Cali: 300681MBSX # 3 RIC: 2652.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

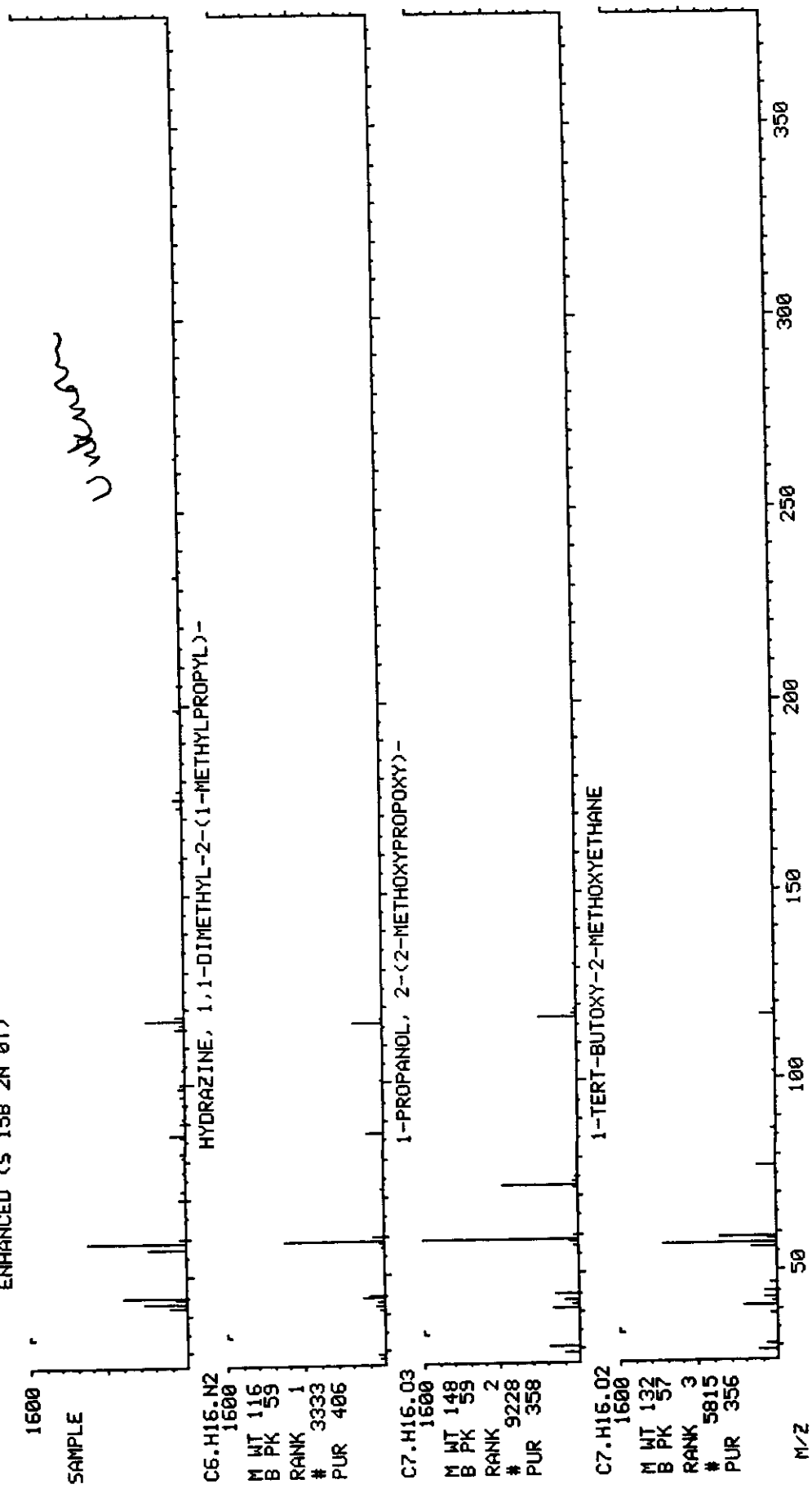
62231 spectra in LIBRARYNB searched for maximum PURITY
 726 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	3333	HYDRAZINE, 1,1-DIMETHYL-2-(1-METHYLPROPYL)-
2	9228	1-PROPANOL, 2-(2-METHOXYPROPOXY)-
3	5815	1-TERT-BUTOXY-2-METHOXYETHANE
4	1760	2-PENTANOL, 2-METHYL-
5	12782	BIS(2-METHOXYETHYL)NITROSAMINE
6	3364	ETHER, SEC-BUTYL ISOPROPYL
7	3454	ETHANEDIOIC ACID, DIMETHYL ESTER
8	20626	2-PROPANOL, 1,1'-[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-
9	5482	HYDRAZINE, 1,1-DIMETHYL-2-(1-METHYLBUTYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H16.N2	116	59	406	651	426
2	C7.H16.O3	148	59	358	611	517
3	C7.H16.O2	132	57	356	587	450
4	C6.H14.O	102	59	354	773	411
5	C6.H14.O3.N2	162	45	344	593	482
6	C7.H16.O	116	45	340	720	398
7	C4.H6.O4	118	59	332	897	337
8	C9.H20.O4	192	59	331	586	453
9	C7.H18.N2	130	59	330	635	453

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54007-24-8
2	—	—	—	—	13588-28-8
3	—	—	—	—	66728-50-5
4	—	—	—	—	590-36-3
5	—	—	—	—	—
6	—	—	—	—	18641-81-1
7	—	—	—	—	553-90-2
8	—	—	—	—	1638-16-0
9	—	—	—	—	75267-97-9

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 16:02:00 + 20:03
 SAMPLE: SBLK5X 31JUL98-16A 1/35A/1ML
 COND5.: UG/ML *1ML *100%/100% *(NA/NA)/1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 300681MBSX #1803
 CALI: 300681MBSX # 3
 INST. ID: F16
 BASE M/Z: 59
 RIC: 2652.



Library Search Data: 300681MBSX #1933 Base m/z: 59
 08/31/98 16:02:00 + 21:30 Cali: 300681MBSX # 3 RIC: 3144.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 580 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 3528 2-METHYL-2,3-PENTANEDIOL
 2 20626 2-PROPANOL, 1,1'-[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-
 3 9227 1,3,3-TRIMETHOXYBUTANE
 4 1909 2-PROPANOL, 1-METHOXY-2-METHYL-
 5 5809 1-ETHOXYPENTAN-3-OL
 6 3247 2-PENTANONE, 5-METHOXY-
 7 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 8 5810 2-PENTANOL, 5-METHOXY-2-METHYL-
 9 6083 2-PROPANOL, 1,1'-OXYBIS-

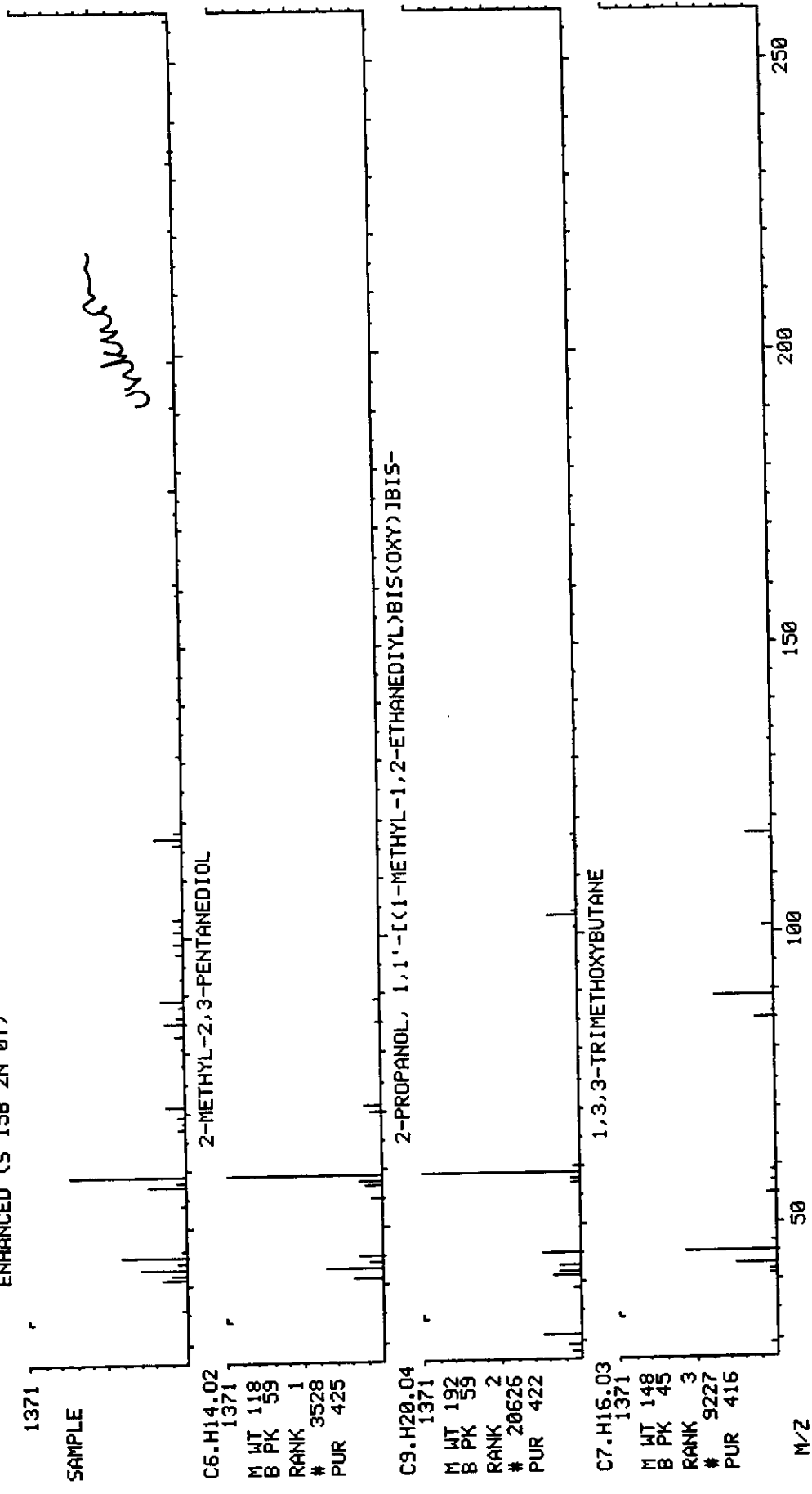
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H14.O2	118	59	425	844	455
2	C9.H20.O4	192	59	422	763	451
3	C7.H16.O3	148	45	416	675	444
4	C5.H12.O2	104	59	403	885	432
5	C7.H16.O2	132	59	401	845	446
6	C6.H12.O2	116	43	391	826	411
7	C10.H22.O4	206	59	390	695	497
8	C7.H16.O2	132	59	389	779	437
9	C6.H14.O3	134	59	386	840	412

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7795-80-4
2	—	—	—	—	1638-16-0
3	—	—	—	—	6607-66-5
4	—	—	—	—	3587-64-2
5	—	—	—	—	- -
6	—	—	—	—	17429-04-8
7	—	—	—	—	20324-33-8
8	—	—	—	—	55724-04-4
9	—	—	—	—	110-98-5

DATA: 300681MBSX #1933
CALI: 300681MBSX # 3
INST. ID: F16

BASE M/Z: 59
RIC: 3144.

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 16:02:00 + 21:30
SAMPLE: SBLK5X 31JUL98-16A 1/35A/1ML
CONDS.: UG/ML *1ML *100%/100% *(NA/NA) >1/35A NA M
ENHANCED (S 158 2N 0T)



Library Search Data: 300681MBSX #2052 Base m/z: 59
 08/31/98 16:02:00 + 22:49 Cali: 300681MBSX # 3 RIC: 1154.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N OT)

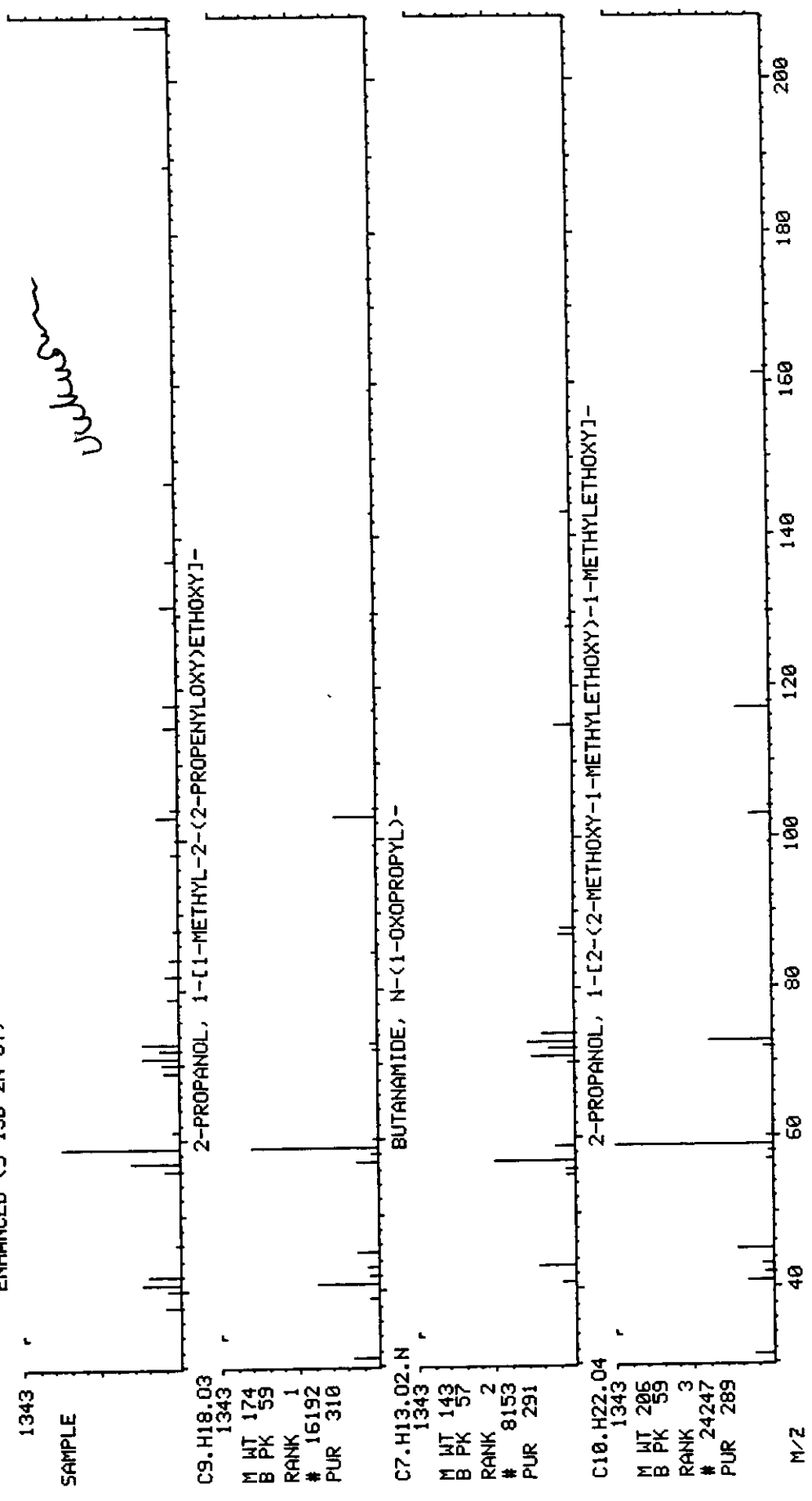
62231 spectra in LIBRARYNB searched for maximum PURITY
 159 matched at least 5 of the 16 largest peaks in the unknown

Rank In. Name
 1 16192 2-PROPANOL, 1-[1-METHYL-2-(2-PROPENYLOXY)ETHOXY]-
 2 8153 BUTANAMIDE, N-(1-OXOPROPYL)-
 3 24247 2-PROPANOL, 1-[2-(2-METHOXY-1-METHYLETHOXY)-1-METHYLETHOXY]-
 4 17561 GLUCOSE
 5 8871 METHANE, TERT-BUTOXYISOPROPOXY-
 6 12047 BUTANE, 1,1'-OXYBIS[3-METHYL-
 7 16017 BOROXIN, TRIMETHOXY-
 8 8519 3-HEPTANOL, 3,5-DIMETHYL-
 9 3461 2-PROPANAMINE, N-METHYL-N-NITRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O3	174	59	310	722	370
2	C7.H13.O2.N	143	57	291	604	404
3	C10.H22.O4	206	59	289	581	424
4	C6.H12.O6	180	72	278	621	361
5	C8.H18.O2	146	57	273	695	366
6	C10.H22.O	158	71	271	607	351
7	C3.H9.O6.B3	174	73	265	562	312
8	C9.H20.O	144	73	264	590	357
9	C4.H10.O2.N2	118	103	253	669	274

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	55956-25-7
2	—	—	—	—	32796-69-3
3	—	—	—	—	20324-33-8
4	—	—	—	—	50-99-7
5	—	—	—	—	4346-01-4
6	—	—	—	—	544-01-4
7	—	—	—	—	102-24-9
8	—	—	—	—	19549-74-7
9	—	—	—	—	30893-20-0

MID LIBRARY SEARCH (LIBRARYNB)
 08/31/98 16:02:00 + 22:49
 SAMPLE: SBLKX 31JUL98-16A 1/35A/1ML
 COND5.: UG/ML *1ML *1002/1002 *(NA/NA) 1/35A NA M
 ENHANCED (S 158 2N 0T)
 DATA: 300681MBSX #2052 BASE M/Z: 59
 CALL: 300681MBSX # 3 RIC: 1154.
 INST. ID: F16



Library Search Data: 300681MBSX #2057 Base m/z: 59
 08/31/98 16:02:00 + 22:53 Cali: 300681MBSX # 3 RIC: 1700.
 Sample: SBLKSX 31JUL98-16A 1/3SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1/3SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 722 matched at least 5 of the 16 largest peaks in the unknown

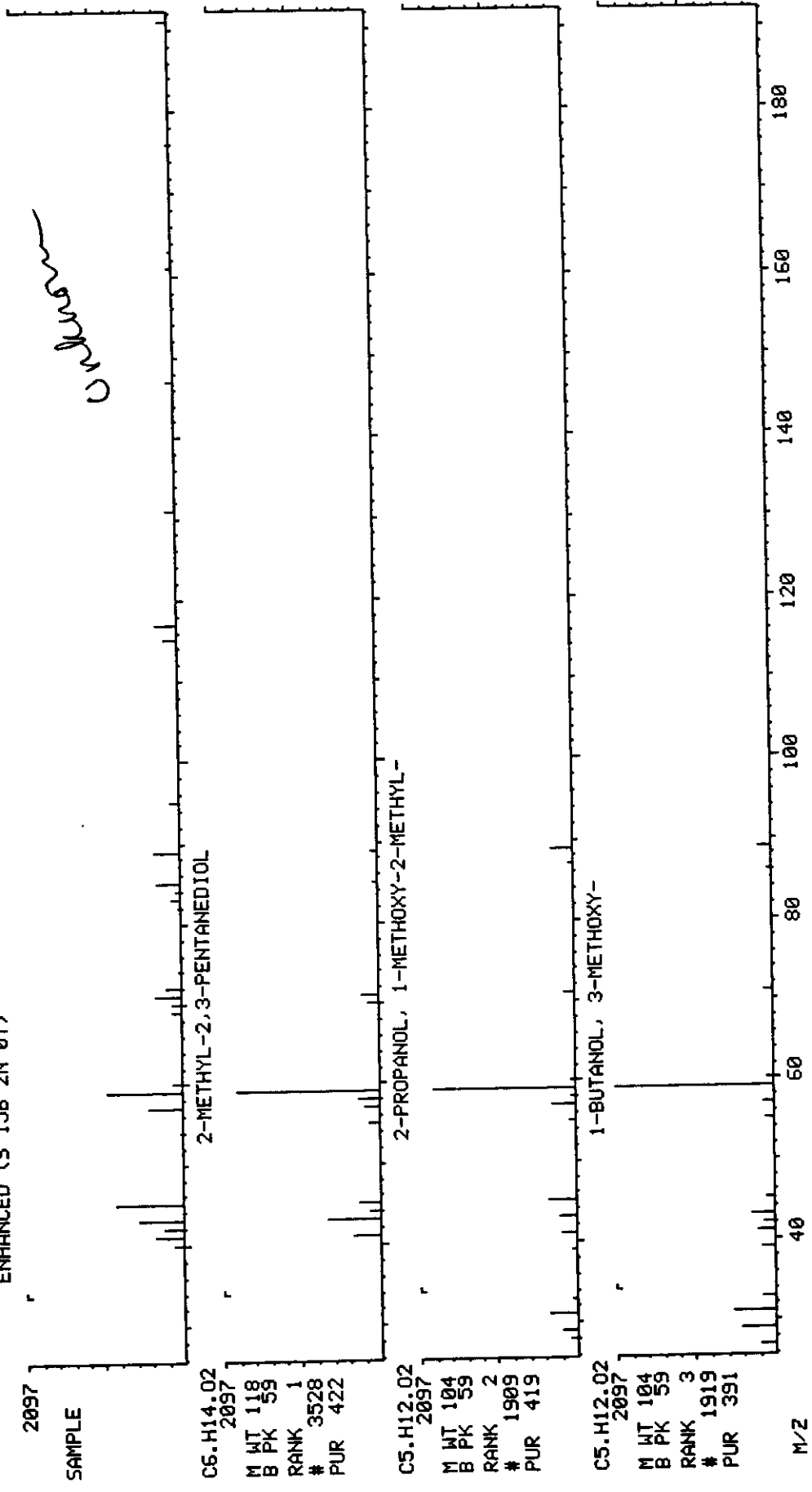
Rank In.	Name
1	3528 2-METHYL-2,3-PENTANEDIOL
2	1909 2-PROPANOL, 1-METHOXY-2-METHYL-
3	1919 1-BUTANOL, 3-METHOXY-
4	9227 1,3,3-TRIMETHOXYBUTANE
5	3534 1-BUTANOL, 4-ETHOXY-
6	5810 2-PENTANOL, 5-METHOXY-2-METHYL-
7	5522 2-HEXANOL, 2,3-DIMETHYL-
8	36537 2,5,8,11-TETRAOXATETRADECAN-13-OL, 4,7,10-TRIMETHYL-
9	9010 ACETAMIDE, 2-METHOXY-N-(2-METHOXYETHYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H14.O2	118	59	422	748	481
2	C5.H12.O2	104	59	419	836	449
3	C5.H12.O2	104	59	391	746	426
4	C7.H16.O3	148	45	389	663	457
5	C6.H14.O2	118	59	384	692	512
6	C7.H16.O2	132	59	384	733	455
7	C8.H18.O	130	59	381	709	423
8	C13.H28.O5	264	59	370	569	549
9	C6.H13.O3.N	147	45	368	665	479

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7795-80-4
2	—	—	—	—	3587-64-2
3	—	—	—	—	2517-43-3
4	—	—	—	—	6607-66-5
5	—	—	—	—	111-73-9
6	—	—	—	—	55724-04-4
7	—	—	—	—	19550-03-9
8	—	—	—	—	20324-34-9
9	—	—	—	—	55956-18-8

DATA: 300681MBSX #2057
CALI: 300681MBSX # 3
BASE M/Z: 59
RIC: 1700.

MID LIBRARY SEARCH (LIBRARYNB)
08/31/98 16:02:00 + 22:53
SAMPLE: SBLK5X 31JUL98-16A 1/35A/1ML
COND5.: UG/ML *1ML *100%/100% *(NA/NA) >1/35A NA M
ENHANCED (S 15B 2N 0T)



1000

TIC SELECTION REPORT

DATA FILE: 300681MBSX

THE FOLLOWING PEAKS WERE REJECTED BECAUSE
AT LEAST 40 % OF THEIR SIZE WAS ACCOUNTED FOR BY
TARGET COMPOUNDS ELUTING WITHIN 4 SCANS OF THE
PEAK TOP.

SCAN	SIZE	AMOUNT
201	344792.	51.759
309	406704.	61.053
342	223900.	33.611
422	183296.	27.516
530	266460.	40.000
723	358875.	44.289
828	324123.	40.000
968	355248.	42.527
1086	334141.	40.000
1383	308474.	61.749
1383	307034.	61.460
1551	199826.	40.000
1782	156554.	40.000

TOTAL NUMBER OF UNIDENTIFIED PEAKS WITH SIZE
GREATER THAN 10 % OF THE CLOSEST INTERNAL STANDARD
THAT DOES NOT HAVE INTERFERENCES = 12

INTERNAL STANDARDS THAT HAVE RIC SIZE LESS THAN
50 % OR GREATER THAN 200 % OF THE ESTIMATED RIC SIZE
ARE CONSIDERED TO HAVE INTERFERENCES AND WILL NOT BE USED
FOR QUANTITATION.

#	INTERNAL STANDARD	PERCENT OF ESTIMATED		SCAN
		RIC SIZE	RIC SIZE	
1	CI40 NAPHTHALENE-D8	266460.	127	530
2	CI50 ACENAPHTHENE-D10	324123.	124	828
3	CI60 PHENANTHRENE-D10	334141.	119	1086
4	CI70 CHRYSENE-D12	199826.	127	1551
5	CI75 PERYLENE-D12	156554.	123	1782

* INDICATES INTERFERENCE

SIZE = AREA

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSF
Std Id: ST16980831

Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 16:31
Analyst: DAT Instrument ID: F16 Run Factor: 1.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery		QC Limits
	Spiked	Measured	Measured		
CS20 NITROBENZENE-D5	50.00	28.10	56.2		45 107
CS25 2-FLUOROBIPHENY	50.00	27.30	54.6	*	62 110
CS30 TERPHENYL-D14	50.00	38.70	77.4		58 135
CS45 PHENOL-D5	100.0	19.40	19.4	*	43 130
CS50 2-FLUOROPHENOL	100.0	37.00	37.0		36 111
CS55 2,4,6-TRIBROMOP	100.0	71.80	71.8		58 131

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
HEXACHLOROBENZENE-C13		ND	UG/A	10.0
C310 N-NITROSODIMETHYLAMINE		ND	UG/A	10.0
PYRIDINE		ND	UG/A	20.0
2-PICOLINE		ND	UG/A	10.0
N-NITROSOMETHYLETHYLAMINE		ND	UG/A	10.0
METHYLMETHANESULFONATE		ND	UG/A	10.0
N-NITROSODIETHYLAMINE		ND	UG/A	10.0
ETHYLMETHANE SULFONATE		ND	UG/A	10.0
PENTACHLOROETHANE		ND	UG/A	10.0
C320 ANILINE		ND	UG/A	10.0
C315 PHENOL		ND	UG/A	10.0
C325 BIS(2-CHLOROETHYL)ETHER		ND	UG/A	10.0
C330 2-CHLOROPHENOL		ND	UG/A	10.0
C335 1,3-DICHLOROBENZENE		ND	UG/A	10.0
C340 1,4-DICHLOROBENZENE		ND	UG/A	10.0
C345 BENZYL ALCOHOL		ND	UG/A	10.0
C350 1,2-DICHLOROBENZENE		ND	UG/A	10.0
C355 2-METHYLPHENOL		ND	UG/A	10.0
C360 2,2'-OXYBIS(1-CLPROPAN)		ND	UG/A	10.0
C361 ACETOPHENONE		ND	UG/A	10.0
N-NITROSOPYRROLIDINE		ND	UG/A	10.0
N-NITROSOMORPHOLINE		ND	UG/A	10.0
3-METHYL PHENOL		ND	UG/A	10.0
C365 4-METHYLPHENOL		ND	UG/A	10.0
C370 N-NITROSO-DI-N-PROPYLAM		ND	UG/A	10.0
O-TOLUIDINE		ND	UG/A	10.0
C375 HEXACHLOROETHANE		ND	UG/A	10.0
C410 NITROBENZENE		ND	UG/A	10.0
N-NITROSOPIPERIDINE		ND	UG/A	10.0

Reviewed by: 69/17/98

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSF

Std Id: ST16980831

Sample: SBLKSF 01AUG98-16A 1SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 08/31/98 16:31

Analyst: DAT Instrument ID: F16

Run Factor: 1.00

Quan List Threshold: 0.95

Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C415 ISOPHORONE		ND	UG/A	10.0
C420 2-NITROPHENOL		ND	UG/A	10.0
C425 2,4-DIMETHYLPHENOL		ND	UG/A	10.0
C435 BIS(2-CHLOROETHOXY)METH		ND	UG/A	10.0
C440 2,4-DICHLOROPHENOL		ND	UG/A	10.0
C430 BENZOIC ACID		ND	UG/A	50.0
AA-DIMETHYLPHENETHYLAMINE		ND	UG/A	10.0
C445 1,2,4-TRICHLOROBENZENE		ND	UG/A	10.0
C450 NAPHTHALENE		ND	UG/A	10.0
C455 4-CHLOROANILINE		ND	UG/A	10.0
2,6-DICHLOROPHENOL		ND	UG/A	10.0
HEXACHLOROPROPENE		ND	UG/A	10.0
C460 HEXACHLOROBUTADIENE		ND	UG/A	10.0
P-PHENYLENE DIAMINE		ND	UG/A	10.0
N-NITROSODI-N-BUTYLAMINE		ND	UG/A	10.0
C465 4-CHLORO-3-METHYLPHENO		ND	UG/A	10.0
SAFROLE		ND	UG/A	10.0
C470 2-METHYLNAPHTHALENE		ND	UG/A	10.0
1,2,4,5-TETRACHLOROBENZENE		ND	UG/A	10.0
ISOSAFROLE (#1)		ND	UG/A	20.0
C510 HEXACHLOROCYCLOPENTADI		ND	UG/A	10.0
C515 2,4,6-TRICHLOROPHENOL		ND	UG/A	10.0
C520 2,4,5-TRICHLOROPHENOL		ND	UG/A	10.0
ISOSAFROLE (#2)		ND	UG/A	20.0
C525 2-CHLORONAPHTHALENE		ND	UG/A	10.0
1-CHLORONAPHTHALENE		ND	UG/A	5.0
C530 2-NITROANILINE		ND	UG/A	50.0
1,4-NAPHTHOQUINONE		ND	UG/A	10.0
C535 DIMETHYLPHTHALATE		ND	UG/A	10.0
1,3-DINITROBENZENE		ND	UG/A	10.0
C540 ACENAPHTHYLENE		ND	UG/A	10.0
C543 2,6-DINITROTOLUENE		ND	UG/A	10.0
C545 3-NITROANILINE		ND	UG/A	50.0
C550 ACENAPHTHENE		ND	UG/A	10.0
C555 2,4-DINITROPHENOL		ND	UG/A	50.0
C565 DIBENZOFURAN		ND	UG/A	10.0
C560 4-NITROPHENOL		ND	UG/A	50.0
PENTACHLOROBENZENE		ND	UG/A	10.0
C570 2,4-DINITROTOLUENE		ND	UG/A	10.0
1-NAPHTHYLAMINE		ND	UG/A	10.0
2-NAPHTHYLAMINE		ND	UG/A	10.0
2,3,4,6-TETRACHLOROPHENOL		ND	UG/A	20.0
C580 DIETHYLPHTHALATE		ND	UG/A	10.0
C590 FLUORENE		ND	UG/A	10.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSF
Std Id: ST16980831

Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 16:31
Analyst: DAT Instrument ID: F16 Run Factor: 1.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
=====				
C585 4-CHLOROPHENYL-PHENYLE		ND	UG/A	10.0
5-NITRO-O-TOLUIDINE		ND	UG/A	10.0
C595 4-NITROANALINE		ND	UG/A	50.0
C610 4,6-DINITRO-2-METHYLPH		ND	UG/A	50.0
C615 N-NITROSODIPHENYLAMINE		ND	UG/A	10.0
C620 AZOBENZENE		ND	UG/A	10.0
SYM-TRINITROBENZENE		ND	UG/A	10.0
C625 4-BROMOPHENYL-PHENYLET		ND	UG/A	10.0
PHENACETIN		ND	UG/A	10.0
DIALATE	234	ND	UG/A	10.0
C630 HEXACHLOROBENZENE		ND	UG/A	10.0
4-AMINOBIIPHENYL		ND	UG/A	10.0
C635 PENTACHLOROPHENOL		ND	UG/A	50.0
PRONAMIDE		ND	UG/A	10.0
PENTACHLORONITROBENZENE		ND	UG/A	50.0
C640 PHENANTHRENE		ND	UG/A	10.0
C645 ANTHRACENE		ND	UG/A	10.0
2SECBUTYL-4,6-DINITROPHENOL		ND	UG/A	10.0
C647 CARBAZOLE		ND	UG/A	10.0
C650 DI-N-BUTYLPHTHALATE		ND	UG/A	10.0
4-NITROQUINOLINE-1-OXIDE		ND	UG/A	10.0
METHAPYRILENE		ND	UG/A	10.0
ISODRIN		ND	UG/A	10.0
C655 FLUORANTHENE		ND	UG/A	10.0
CHLOROBENZILATE		ND	UG/A	10.0
C710 BENZIDINE		ND	UG/A	100.0
C715 PYRENE		ND	UG/A	10.0
ARAMITE (#1)		ND	UG/A	10.0
ARAMITE (#2)		ND	UG/A	10.0
P-DIMETHYLAMINOAZOBENZENE		ND	UG/A	10.0
3,3'-DIMETHYLBENZIDINE		ND	UG/A	10.0
KEPONE		ND	UG/A	50.0
C720 BUTYLBENZYLPHTHALATE		ND	UG/A	10.0
2-ACETYLAMINOFLUORENE		ND	UG/A	10.0
C730 BENZO(A)ANTHRACENE		ND	UG/A	10.0
C725 3,3'-DICHLOROBENZIDINE		ND	UG/A	20.0
C740 CHRYSENE		ND	UG/A	10.0
C745 BIS(2-ETHYLHEXYL)PHTHA		ND	UG/A	10.0
3-METHYLCHOLANTHRENE		ND	UG/A	10.0
C760 DI-N-OCTYL PHTHALATE		ND	UG/A	10.0
C765 BENZO(B)FLUORANTHENE		ND	UG/A	10.0
7,12-DIMETHYLBENZANTHRACENE		ND	UG/A	10.0
C770 BENZO(K)FLUORANTHENE		ND	UG/A	10.0
HEXACHLOROPHENE		ND	UG/A	10.0

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSF
Std Id: ST16980831

Sample: SBLKSF 01AUG98-16A 1SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 08/31/98 16:31

Analyst: DAT

Instrument ID: F16

Run Factor: 1.00

Quan List Threshold: 0.95

Surrogate Vol.: 1.00

Target Compounds: SAP9

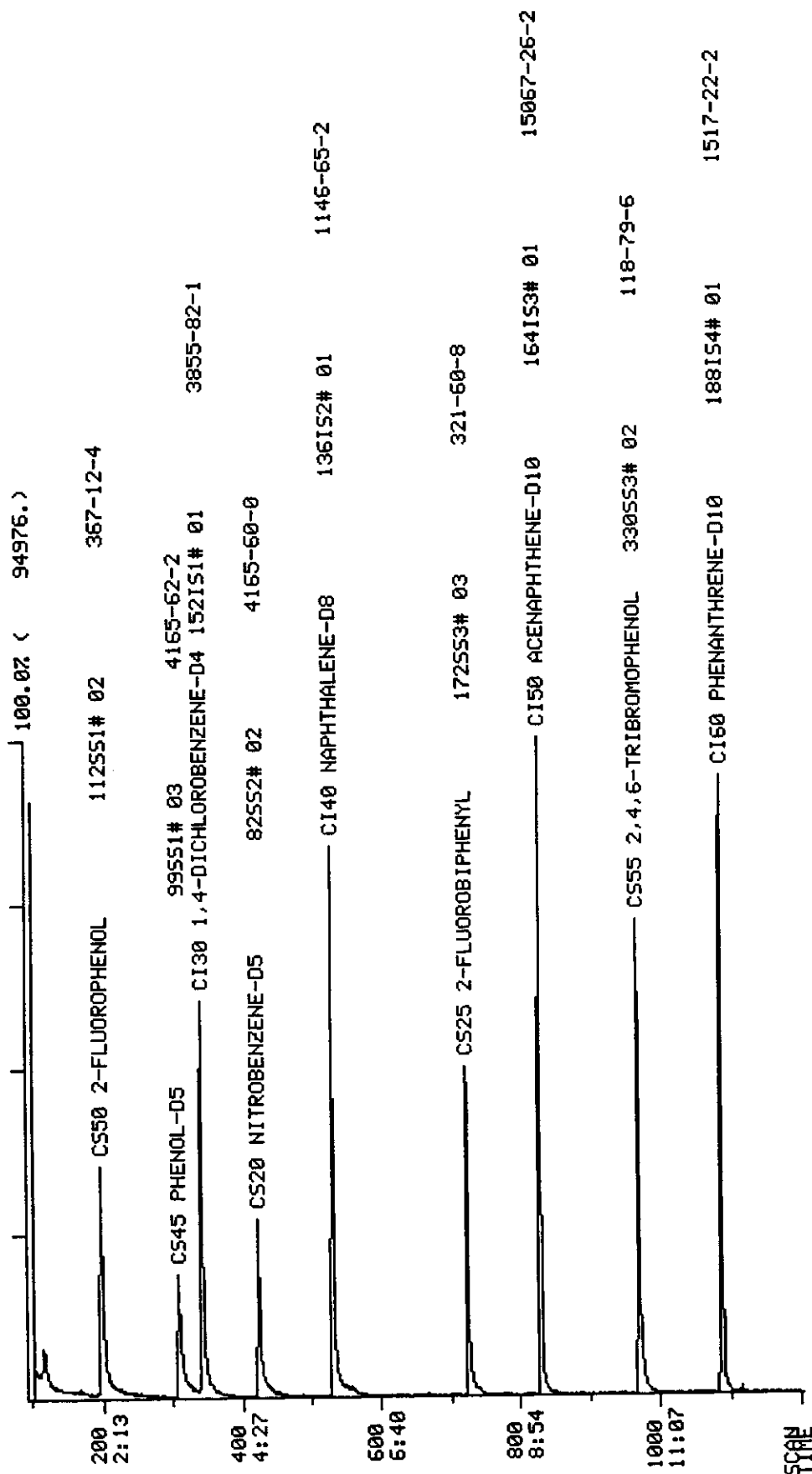
Parameter	Scan	Result	Units	Reporting Limit
C775 BENZO(A)PYRENE		ND	UG/A	10.0
C780 INDENO(1,2,3-CD)PYRENE		ND	UG/A	10.0
C785 DIBENZ(A,H)ANTHRACENE		ND	UG/A	10.0
C790 BENZO(G,H,I)PERYLENE		ND	UG/A	10.0

DATA FROM FILE: 300681MBSF SCANS 93 TO 1203 ACQUIRED: 08/31/98 16:31:00

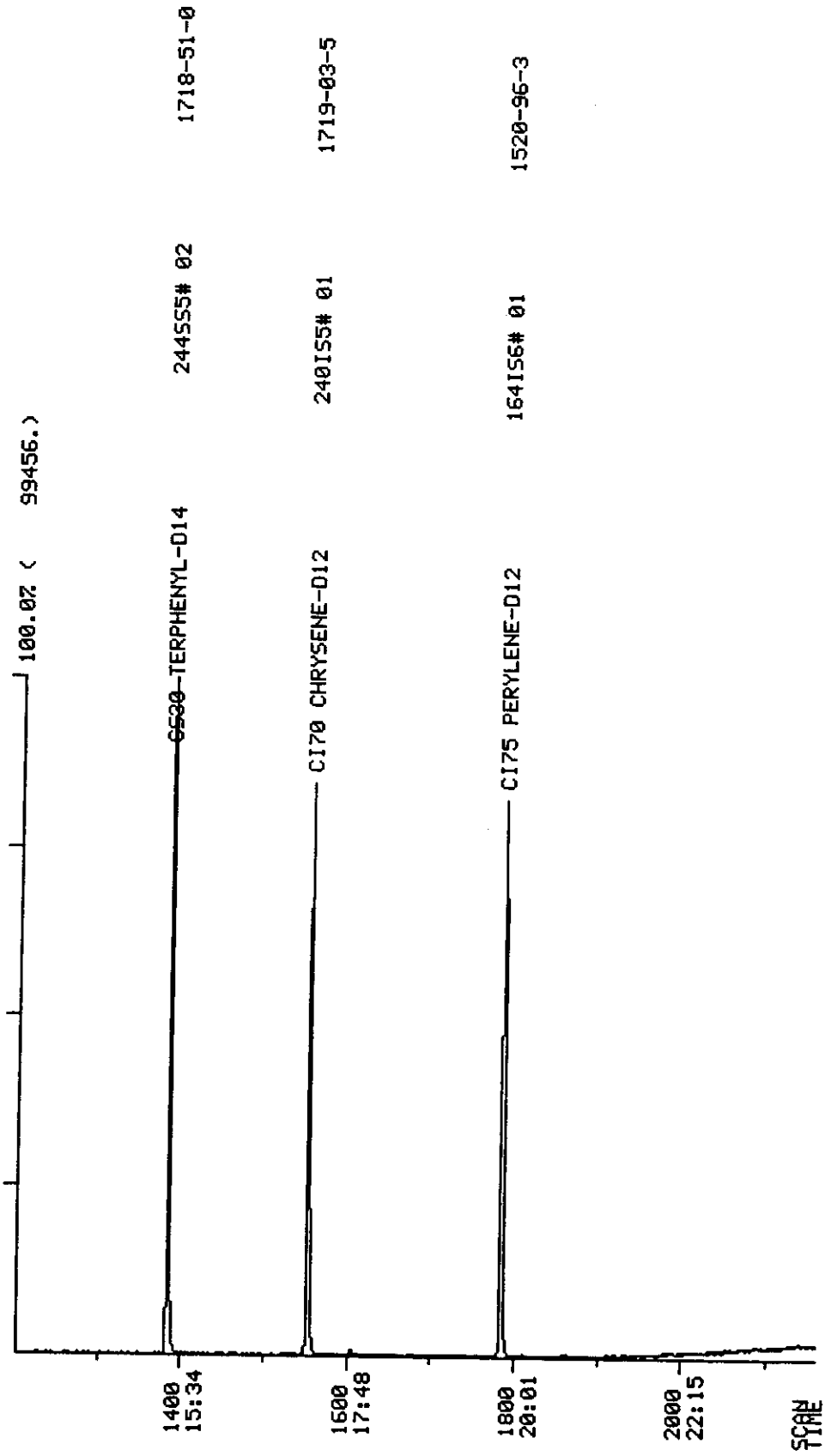
CALI: 300681MBSF #3

SAMPLE: SBLKSF 01AUG98-16A 15A/1ML INST. ID: F16

COND5.: UG/ML *100Z/100Z *(NA/NA)/15A NA M



DATA FROM FILE: 300681MBSF SCANS 1203 TO 2158 ACQUIRED: 08/31/98 16:31:00
 SAMPLE: SBLKSF 01AUG98-16A 15A/1ML CALI: 300681MBSF #3
 CONDS.: UG/ML *100%/100% *(NA/NA)/15A NA M INST. ID: F16



ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 300681MBSF

Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
Analyst: DAT Instrument Id: F16 Analyzed: 08/31/98 16:31

Compounds with amounts less than 0.20 reported as NOT FOUND

Library		Units: UG/ML							
No	Entry	Name	Mass	Meth	Scan	Ref	Area	RRF(L)	Amount
1	S1# 1	CI30 1,4-DICHLOROBENZENE	152	A	BB	340 1	30721.	1.000	40.000
2	S2# 1	CI40 NAPHTHALENE-D8	136	A	BB	529 2	108221.	1.000	40.000
3	S3# 1	CI50 ACENAPHTHENE-D10	164	A	BB	828 3	59070.	1.000	40.000
4	S4# 1	CI60 PHENANTHRENE-D10	188	A	BB	1086 4	102024.	1.000	40.000
5	S5# 1	CI70 CHRYSENE-D12	240	A	BB	1551 5	87857.	1.000	40.000
6	S6# 1	CI75 PERYLENE-D12	264	A	BB	1783 6	75258.	1.000	40.000
7	S2# 2	CS20 NITROBENZENE-D5	82	A	BB	421 2	35709.	0.470	28.108
8	S3# 3	CS25 2-FLUOROBIPHENYL	172	A	BB	722 3	49743.	1.234	27.290
9	S5# 2	CS30 TERPHENYL-D14	244	A	BB	1383 5	84547.	0.995	38.678
10	S1# 3	CS45 PHENOL-D5	99	A	BB	307 1	30107.	2.025	19.354
11	S1# 2	CS50 2-FLUOROPHENOL	112	A	BB	196 1	38883.	1.368	37.002
12	S3# 2	CS55 2,4,6-TRIBROMOPHENO	330	A	BB	968 3	24984.	0.236	71.791
13	S4# 4	HEXACHLOROBENZENE-C13	294			4 NOT FOUND			
14	S1# 15	C310 N-NITROSODIMETHYLAM	74			1 NOT FOUND			
15	S1# 20	PYRIDINE	79			1 NOT FOUND			
16	S1# 30	2-PICOLINE	93			1 NOT FOUND			
17	S1# 40	N-NITROSOMETHYLETHYLAMIN	42	A	BB	159 1	156.	0.811	0.250
18	S1# 60	METHYLMETHANESULFONATE	80			1 NOT FOUND			
19	S1# 70	N-NITROSODIETHYLAMINE	102			1 NOT FOUND			
20	S1# 85	ETHYLMETHANE SULFONATE	79			1 NOT FOUND			
21	S1# 95	PENTACHLOROETHANE	117			1 NOT FOUND			
22	S1#100	C320 ANILINE	93			1 NOT FOUND			
23	S1#105	C315 PHENOL	94			1 NOT FOUND			
24	S1#110	C325 BIS(2-CHLOROETHYL)E	93			1 NOT FOUND			
25	S1#115	C330 2-CHLOROPHENOL	128			1 NOT FOUND			
26	S1#125	C335 1,3-DICHLOROBENZENE	146			1 NOT FOUND			
27	S1#130	C340 1,4-DICHLOROBENZENE	146			1 NOT FOUND			
28	S1#145	C345 BENZYL ALCOHOL	108			1 NOT FOUND			
29	S1#150	C350 1,2-DICHLOROBENZENE	146			1 NOT FOUND			
30	S1#160	C355 2-METHYLPHENOL	108			1 NOT FOUND			
31	S1#165	C360 2,2'-OXYBIS(1-CLPRO	45			1 NOT FOUND			
32	S1#170	C361 ACETOPHENONE	105			1 NOT FOUND			
33	S1#175	N-NITROSOPYRROLIDINE	100			1 NOT FOUND			
34	S1#180	N-NITROSOMORPHOLINE	56			1 NOT FOUND			
35	S1#182	3-METHYL PHENOL	108			1 NOT FOUND			
36	S1#185	C365 4-METHYLPHENOL	108			1 NOT FOUND			
37	S1#190	C370 N-NITROSO-DI-N-PROP	70			1 NOT FOUND			
38	S1#195	O-TOLUIDINE	106			1 NOT FOUND			
39	S1#200	C375 HEXACHLOROETHANE	117			1 NOT FOUND			
40	S2# 10	C410 NITROBENZENE	77			2 NOT FOUND			
41	S2# 15	N-NITROSOPIPERIDINE	42			2 NOT FOUND			
42	S2# 20	C415 ISOPHORONE	82			2 NOT FOUND			
43	S2# 25	C420 2-NITROPHENOL	139			2 NOT FOUND			
44	S2# 30	C425 2,4-DIMETHYLPHENOL	107			2 NOT FOUND			
45	S2# 35	C435 BIS(2-CHLOROETHOXY)	93			2 NOT FOUND			

1701

46 S2# 40 C440 2,4-DICHLOROPHENOL	162	2	NOT FOUND
47 S2# 45 C430 BENZOIC ACID	122	2	NOT FOUND
48 S2# 50 AA-DIMETHYLPHENETHYLAMIN	58	2	NOT FOUND
49 S2# 55 C445 1,2,4-TRICHLOROBENZ	180	2	NOT FOUND

50 S2# 60 C450 NAPHTHALENE	128	2	NOT FOUND
51 S2# 80 C455 4-CHLOROANALINE	127	2	NOT FOUND
52 S2# 85 2,6-DICHLOROPHENOL	162	2	NOT FOUND
53 S2# 90 HEXACHLOROPROPENE	213	2	NOT FOUND
54 S2# 95 C460 HEXACHLOROBUTADIENE	225	2	NOT FOUND
55 S2#115 P-PHENYLENE DIAMINE	108	2	NOT FOUND
56 S2#120 N-NITROSODI-N-BUTYLAMINE	84	2	NOT FOUND
57 S2#130 C465 4-CHLORO-3-METHYLPH	107	2	NOT FOUND
58 S2#140 SAFROLE	162	2	NOT FOUND
59 S2#145 C470 2-METHYLNAPHTHALENE	142	2	NOT FOUND
60 S3# 10 1,2,4,5-TETRACHLOROBENZE	214	3	NOT FOUND
61 S3# 15 ISOSAFROLE (#1)	162	3	NOT FOUND
62 S3# 20 C510 HEXACHLOROCYCLOPENT	237	3	NOT FOUND
63 S3# 25 C515 2,4,6-TRICHLOROPHEN	196	3	NOT FOUND
64 S3# 30 C520 2,4,5-TRICHLOROPHEN	196	3	NOT FOUND
65 S3# 35 ISOSAFROLE (#2)	104	3	NOT FOUND
66 S3# 40 C525 2-CHLORONAPHTHALENE	162	3	NOT FOUND
67 S3# 42 1-CHLORONAPHTHALEN	162	3	NOT FOUND
68 S3# 45 C530 2-NITROANALINE	65	3	NOT FOUND
69 S3# 50 1,4-NAPHTHOQUINONE	158	3	NOT FOUND
70 S3# 55 C535 DIMETHYLPHTHALATE	163	3	NOT FOUND
71 S3# 60 1,3-DINITROBENZENE	168	3	NOT FOUND
72 S3# 65 C540 ACENAPHTHYLENE	152	3	NOT FOUND
73 S3# 70 C543 2,6-DINITROTOLUENE	165	3	NOT FOUND
74 S3# 75 C545 3-NITROANILINE	138	3	NOT FOUND
75 S3# 80 C550 ACENAPHTHENE	153	3	NOT FOUND
76 S3# 85 C555 2,4-DINITROPHENOL	184	3	NOT FOUND
77 S3# 90 C565 DIBENZOFURAN	168	3	NOT FOUND
78 S3# 95 C560 4-NITROPHENOL	109	3	NOT FOUND
79 S3#100 PENTACHLOROBENZENE	250	3	NOT FOUND
80 S3#105 C570 2,4-DINITROTOLUENE	165	3	NOT FOUND
81 S3#110 1-NAPHTHYLAMINE	143	3	NOT FOUND
82 S3#115 2-NAPHTHYLAMINE	143	3	NOT FOUND
83 S3#120 2,3,4,6-TETRACHLOROPHENO	232	3	NOT FOUND
84 S3#130 C580 DIETHYLPHTHALATE	149	3	NOT FOUND
85 S3#135 C590 FLUORENE	166	3	NOT FOUND
86 S3#140 C585 4-CHLOROPHENYL-PHEN	204	3	NOT FOUND
87 S3#145 5-NITRO-O-TOLUIDINE	152	3	NOT FOUND
88 S3#150 C595 4-NITROANALINE	138	3	NOT FOUND
89 S4# 10 C610 4,6-DINITRO-2-METHY	198	4	NOT FOUND
90 S4# 15 C615 N-NITROSODIPHENYLAM	169	4	NOT FOUND
91 S4# 20 C620 AZOBENZENE	77	4	NOT FOUND
92 S4# 25 SYM-TRINITROBENZENE	75	4	NOT FOUND
93 S4# 30 C625 4-BROMOPHENYL-PHENY	248	4	NOT FOUND
94 S4# 35 PHENACETIN	108	4	NOT FOUND
95 S4# 37 DIALATE	234	4	NOT FOUND
96 S4# 40 C630 HEXACHLOROBENZENE	284	4	NOT FOUND
97 S4# 45 4-AMINOBIIPHENYL	169	4	NOT FOUND
98 S4# 50 C635 PENTACHLOROPHENOL	266	4	NOT FOUND
99 S4# 55 PRONAMIDE	173	4	NOT FOUND
100 S4# 60 PENTACHLORONITROBENZENE	237	4	NOT FOUND
101 S4# 65 C640 PHENANTHRENE	178	4	NOT FOUND
102 S4# 70 C645 ANTHRACENE	178	4	NOT FOUND
103 S4# 75 ZSECBUTYL-4,6-DINITROPHE	211	4	NOT FOUND
104 S4# 80 C647 CARBAZOLE	167	4	NOT FOUND
105 S4# 85 C650 DI-N-BUTYLPHTHALATE	149 A 88 1226 4 796. 1.247 0.250		
106 S4#100 4-NITROQUINOLINE-1-OXIDE	190	4	NOT FOUND
107 S4#105 METHAPYRILENE	58	4	NOT FOUND
108 S4#106 ISODRIN	193	4	NOT FOUND
109 S4#110 C655 FLUORANTHENE	202	4	NOT FOUND
110 S4#120 CHLOROBENZILATE	139	4	NOT FOUND

1703

111 S5# 10 C710 BENZIDINE	184	5	NOT FOUND		
112 S5# 15 C715 PYRENE	202	5	NOT FOUND		
113 S5# 20 ARAMITE (#1)	185	5	NOT FOUND		
114 S5# 25 ARAMITE (#2)	185	5	NOT FOUND		
115 S5# 30 P-DIMETHYLAMINOAZOBENZEN	120	5	NOT FOUND		
116 S5# 35 3,3'-DIMETHYLBENZIDINE	212	5	NOT FOUND		
117 S5# 37 KEPONE	272	5	NOT FOUND		
118 S5# 40 C720 BUTYLBENZYLPHTHALAT	149	5	NOT FOUND		
119 S5# 45 2-ACETYLAMINOFLUORENE	181	5	NOT FOUND		
120 S5# 50 C730 BENZO(A)ANTHRACENE	228	5	NOT FOUND		
121 S5# 55 C725 3,3'-DICHLOROBENZID	252	5	NOT FOUND		
122 S5# 60 C740 CHRYSENE	228	5	NOT FOUND		
123 S5# 65 C745 BIS(2-ETHYLHEXYL)PH	149 A BB 1603	5	576. 0.980	0.268	
124 S5# 85 3-METHYLCHOLANTHRENE	268	5	NOT FOUND		
125 S6# 10 C760 DI-N-OCTYL PHTHALAT	149	6	NOT FOUND		
126 S6# 15 C765 BENZO(B)FLUORANTHEN	252	6	NOT FOUND		
127 S6# 20 7,12-DIMETHYLBENZANTHRAC	256	6	NOT FOUND		
128 S6# 25 C770 BENZO(K)FLUORANTHEN	252	6	NOT FOUND		
129 S6# 30 HEXACHLOROPHENE	196	6	NOT FOUND		
130 S6# 35 C775 BENZO(A)PYRENE	252	6	NOT FOUND		
131 S6# 55 C780 INDENO(1,2,3-CD)PYR	276	6	NOT FOUND		
132 S6# 60 C785 DIBENZ(A,H)ANTHRACE	278	6	NOT FOUND		
133 S6# 65 C790 BENZO(G,H,I)PERYLEN	276	6	NOT FOUND		

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.=+200		4.28	200864.=+200		6.40	108695.=+200		9.71
Lower Limit	14324.=+ 50		3.28	50216.=+ 50		5.40	27174.=+ 50		8.71
Filename									
1 300681MBSF	30721.= 107		3.78	108221.= 107		5.88	59070.= 108		9.21

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.=+200		12.58	124578.=+200		17.76	101500.=+200		20.33
Lower Limit	49260.=+ 50		11.58	31145.=+ 50		16.76	25375.=+ 50		19.33
Filename									
1 300681MBSF	102024.= 103		12.08	87857.= 141		17.25	75258.= 148		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

Data Reduced by: ____ Date: ____
Data Reviewed by: ____ Date: ____

Data File: 300681MBSF

QUANTERRA GC/MS TIC REPORT (Part 1)

Sample: SBLKSF 01AUG98-16A 1SA/1ML
Analyst: DAT

INST. ID: F16
Date Analyzed: 08/31/98 16:31
Run Factor: 1.00

# SCAN	Concentration in Sample (UG/A)	CAS #

No peaks to search.

1708

DATA FILE: 300681MBSF

QUANTERRA GC/MS TIC REPORT (Part 2)

CONCENTRATION = AREA(TIC)*CONC(IS)/AREA(IS)

#	INT.	RT	RRT	AREA	HEIGHT	AMOUNT AS ANALYZED (UG/ML)	LIB	LIB #

1707

TIC SELECTION REPORT

DATA FILE: 300681M8SF

THE FOLLOWING PEAKS WERE REJECTED BECAUSE
AT LEAST 40 % OF THEIR SIZE WAS ACCOUNTED FOR BY
TARGET COMPOUNDS ELUTING WITHIN 4 SCANS OF THE
PEAK TOP.

SCAN	SIZE	AMOUNT
196	129024.	22.541
307	75740.	13.232
340	185996.	32.494
421	91232.	15.939
529	228960.	40.000
722	152596.	22.325
828	273414.	40.000
968	231786.	33.574
1086	276153.	40.000
1384	308768.	44.436
1384	308768.	44.436
1551	277946.	40.000
1783	258361.	40.000

TOTAL NUMBER OF UNIDENTIFIED PEAKS WITH SIZE
GREATER THAN 10 % OF THE CLOSEST INTERNAL STANDARD
THAT DOES NOT HAVE INTERFERENCES = 0

INTERNAL STANDARDS THAT HAVE RIC SIZE LESS THAN
50 % OR GREATER THAN 200 % OF THE ESTIMATED RIC SIZE
ARE CONSIDERED TO HAVE INTERFERENCES AND WILL NOT BE USED
FOR QUANTITATION.

#	INTERNAL STANDARD	RIC SIZE	PERCENT OF ESTIMATED RIC SIZE	SCAN
1	C140 NAPHTHALENE-D8	228960.	132	529
2	C150 ACENAPHTHENE-D10	273414.	128	828
3	C160 PHENANTHRENE-D10	276153.	119	1086
4	C170 CHRYSENE-D12	277946.	129	1551
5	C175 PERYLENE-D12	258361.	128	1783

* INDICATES INTERFERENCE

SIZE = AREA

1708

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681M8SFI
Std Id: ST16980902

Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 09/02/98 16:29
Analyst: DAT Instrument ID: F16 Run Factor: 1.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery		QC limits
	Spiked	Measured	Measured		
CS20 NITROBENZENE-D5	50.00	27.50	55.0		45 107
CS25 2-FLUOROBIPHENY	50.00	26.00	52.0	*	62 110
CS30 TERPHENYL-D14	50.00	37.90	75.8		58 135
CS45 PHENOL-D5	100.0	16.90	16.9	*	43 130
CS50 2-FLUOROPHENOL	100.0	35.80	35.8	*	36 111
CS55 2,4,6-TRIBROMOP	100.0	72.50	72.5		58 131

confirms

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting
				Limit
CS70 2-CHLOROPHENOL-D4		ND	UG/A	10.0
CS75 1,2-DICHLOROBENZ-D4		ND	UG/A	10.0
HEXACHLOROBENZENE-C13		ND	UG/A	10.0
C310 N-NITROSODIMETHYLAMINE		ND	UG/A	10.0
PYRIDINE		ND	UG/A	20.0
2-PICOLINE		ND	UG/A	10.0
N-NITROSOMETHYLETHYLAMINE		ND	UG/A	10.0
METHYLMETHANESULFONATE		ND	UG/A	10.0
N-NITROSODIETHYLAMINE		ND	UG/A	10.0
ETHYLMETHANE SULFONATE		ND	UG/A	10.0
PENTACHLOROETHANE		ND	UG/A	10.0
C320 ANILINE		ND	UG/A	10.0
C315 PHENOL		ND	UG/A	10.0
C325 BIS(2-CHLOROETHYL)ETHER		ND	UG/A	10.0
C330 2-CHLOROPHENOL		ND	UG/A	10.0
C335 1,3-DICHLOROBENZENE		ND	UG/A	10.0
C340 1,4-DICHLOROBENZENE		ND	UG/A	10.0
C345 BENZYL ALCOHOL		ND	UG/A	10.0
C350 1,2-DICHLOROBENZENE		ND	UG/A	10.0
C355 2-METHYLPHENOL		ND	UG/A	10.0
C360 2,2'-OXYBIS(1-CLPROPAN)		ND	UG/A	10.0
C361 ACETOPHENONE		ND	UG/A	10.0
N-NITROSOPYRROLIDINE		ND	UG/A	10.0
N-NITROSOMORPHOLINE		ND	UG/A	10.0
3-METHYL PHENOL		ND	UG/A	10.0
C365 4-METHYLPHENOL		ND	UG/A	10.0
C370 N-NITROSO-DI-N-PROPYLAM		ND	UG/A	10.0
O-TOLUIDINE		ND	UG/A	10.0
C375 HEXACHLOROETHANE		ND	UG/A	10.0

1709

Reviewed by: _____

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSF1

Std Id: ST16980902

Sample: SBLKSF 01AUG98-16A 1SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 09/02/98 16:29

Analyst: DAT Instrument ID: F16

Run Factor: 1.00

Quan List Threshold: 0.95

Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
=====				
C410 NITROBENZENE		ND	UG/A	10.0
N-NITROSOPIPERIDINE		ND	UG/A	10.0
C415 ISOPHORONE		ND	UG/A	10.0
C420 2-NITROPHENOL		ND	UG/A	10.0
C425 2,4-DIMETHYLPHENOL		ND	UG/A	10.0
C435 BIS(2-CHLOROETHOXY)METH		ND	UG/A	10.0
C440 2,4-DICHLOROPHENOL		ND	UG/A	10.0
C430 BENZOIC ACID		ND	UG/A	50.0
AA-DIMETHYLPHENETHYLAMINE		ND	UG/A	10.0
C445 1,2,4-TRICHLOROBENZENE		ND	UG/A	10.0
C450 NAPHTHALENE		ND	UG/A	10.0
C455 4-CHLOROANALINE		ND	UG/A	10.0
2,6-DICHLOROPHENOL		ND	UG/A	10.0
HEXACHLOROPROPENE		ND	UG/A	10.0
C460 HEXACHLOROBUTADIENE		ND	UG/A	10.0
P-PHENYLENE DIAMINE		ND	UG/A	10.0
N-NITROSODI-N-BUTYLAMINE		ND	UG/A	10.0
C465 4-CHLORO-3-METHYLPHENO		ND	UG/A	10.0
SAFROLE		ND	UG/A	10.0
C470 2-METHYLNAPHTHALENE		ND	UG/A	10.0
1,2,4,5-TETRACHLOROBENZENE		ND	UG/A	10.0
ISOSAFROLE (#1)		ND	UG/A	20.0
C510 HEXACHLOROCYCLOPENTADI		ND	UG/A	10.0
C515 2,4,6-TRICHLOROPHENOL		ND	UG/A	10.0
C520 2,4,5-TRICHLOROPHENOL		ND	UG/A	10.0
ISOSAFROLE (#2)		ND	UG/A	20.0
C525 2-CHLORONAPHTHALENE		ND	UG/A	10.0
1-CHLORONAPHTHALENE		ND	UG/A	5.0
C530 2-NITROANALINE		ND	UG/A	50.0
1,4-NAPHTHOQUINONE		ND	UG/A	10.0
C535 DIMETHYLPHTHALATE		ND	UG/A	10.0
1,3-DINITROBENZENE		ND	UG/A	10.0
C540 ACENAPHTHYLENE		ND	UG/A	10.0
C543 2,6-DINITROTOLUENE		ND	UG/A	10.0
C545 3-NITROANILINE		ND	UG/A	50.0
C550 ACENAPHTHENE		ND	UG/A	10.0
C555 2,4-DINITROPHENOL		ND	UG/A	50.0
C565 DIBENZOFURAN		ND	UG/A	10.0
C560 4-NITROPHENOL		ND	UG/A	50.0
PENTACHLOROBENZENE		ND	UG/A	10.0
C570 2,4-DINITROTOLUENE		ND	UG/A	10.0
1-NAPHTHYLAMINE		ND	UG/A	10.0
2-NAPHTHYLAMINE		ND	UG/A	10.0
2,3,4,6-TETRACHLOROPHENOL		ND	UG/A	20.0

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QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBSF1
Std Id: ST16980902

Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 09/02/98 16:29
Analyst: DAT Instrument ID: F16 Run Factor: 1.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C580 DIETHYLPHthalate		ND	UG/A	10.0
C590 Fluorene		ND	UG/A	10.0
C585 4-CHLOROPHENYL-PHENYLE		ND	UG/A	10.0
5-NITRO-O-TOLUIDINE		ND	UG/A	10.0
C595 4-NITROANALINE		ND	UG/A	50.0
C610 4,6-DINITRO-2-METHYLPH		ND	UG/A	50.0
C615 N-NITROSODIPHENYLAMINE		ND	UG/A	10.0
C620 AZOBENZENE		ND	UG/A	10.0
SYM-TRINITROBENZENE		ND	UG/A	10.0
C625 4-BROMOPHENYL-PHENYLET		ND	UG/A	10.0
PHENACETIN		ND	UG/A	10.0
DIALlate	234	ND	UG/A	10.0
C630 HEXACHLOROBENZENE		ND	UG/A	10.0
4-AMINOBIphenyl		ND	UG/A	10.0
C635 PENTACHLOROPHENOL		ND	UG/A	50.0
PRONAMIDE		ND	UG/A	10.0
PENTACHLORONITROBENZENE		ND	UG/A	50.0
C640 PHENANTHRENE		ND	UG/A	10.0
C645 ANTHRACENE		ND	UG/A	10.0
2SECBUTYL-4,6-DINITROPHENOL		ND	UG/A	10.0
C647 CARBAZOLE		ND	UG/A	10.0
C650 DI-N-BUTYLPHthalate		ND	UG/A	10.0
4-NITROQUINOLINE-1-OXIDE		ND	UG/A	10.0
METHAPYRILENE		ND	UG/A	10.0
ISODRIN		ND	UG/A	10.0
C655 FLUORANTHENE		ND	UG/A	10.0
CHLOROBENZILATE		ND	UG/A	10.0
C710 BENZIDINE		ND	UG/A	100.0
C715 PYRENE		ND	UG/A	10.0
ARAMITE (#1)		ND	UG/A	10.0
ARAMITE (#2)		ND	UG/A	10.0
P-DIMETHYLAMINOAZOBENZENE		ND	UG/A	10.0
3,3'-DIMETHYLBENZIDINE		ND	UG/A	10.0
KEPONE		ND	UG/A	50.0
C720 BUTYLBENZYLPHthalate		ND	UG/A	10.0
2-ACETYLAMINOFLUORENE		ND	UG/A	10.0
C730 BENZO(A)ANTHRACENE		ND	UG/A	10.0
C725 3,3'-DICHLOROBENZIDINE		ND	UG/A	20.0
C740 CHRYSENE		ND	UG/A	10.0
C745 BIS(2-ETHYLHEXYL)PHTHA		ND	UG/A	10.0
3-METHYLCHOLANTHRENE		ND	UG/A	10.0
C760 DI-N-OCTYL PHTHALATE		ND	UG/A	10.0
C765 BENZO(B)FLUORANTHENE		ND	UG/A	10.0
7,12-DIMETHYLBENZANTHRACENE		ND	UG/A	10.0

1711

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681M8SF1
Std Id: ST16980902

Sample: SBLKSF 01AUG98-16A 1SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 09/02/98 16:29

Analyst: DAT Instrument ID: F16

Run Factor: 1.00

Quan List Threshold: 0.95

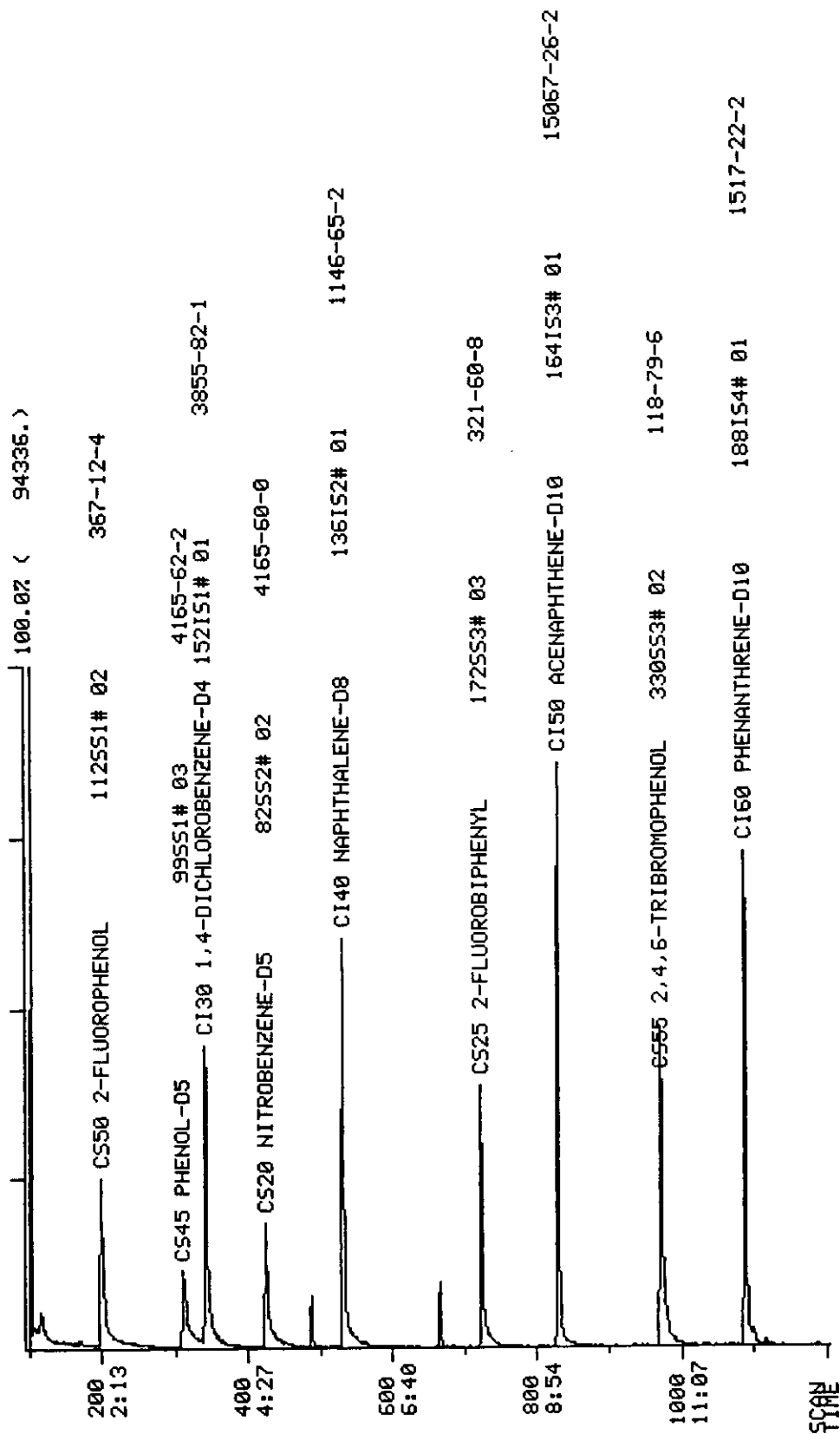
Surrogate Vol.: 1.00

Target Compounds: SAP9

Parameter	Scan	Result	Units	Reporting Limit
C770 BENZO(K)FLUORANTHENE		ND	UG/A	10.0
HEXACHLOROPHENE		ND	UG/A	10.0
C775 BENZO(A)PYRENE		ND	UG/A	10.0
C780 INDENO(1,2,3-CD)PYRENE		ND	UG/A	10.0
C785 DIBENZ(A,H)ANTHRACENE		ND	UG/A	10.0
C790 BENZO(G,H,I)PERYLENE		ND	UG/A	10.0

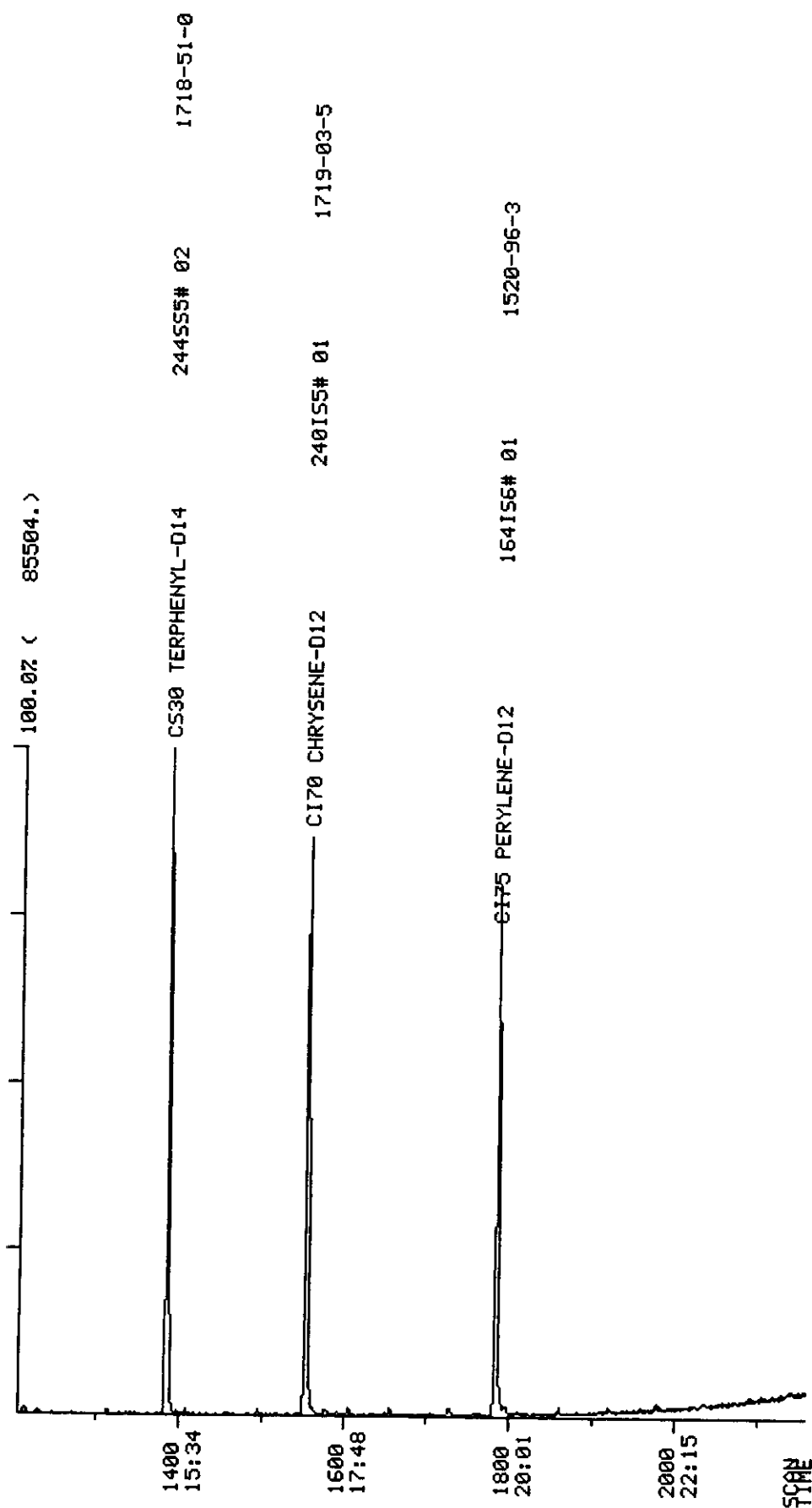
1712

DATA FROM FILE: 300681MBSFI SCANS 94 TO 1204 ACQUIRED: 09/02/98 16:29:00
 CALI: 300681MBSFI #3
 SAMPLE: SBLKSF 01AUG98-16A 15A/1ML INST. ID: F16
 CONDS.: UG/ML *1002/1002 *(NA/NA >/15A NA M



1713

DATA FROM FILE: 300681MBSFI SCANS 1204 TO 2158 ACQUIRED: 09/02/98 16:29:00
 CALI: 300681MBSFI #3
 SAMPLE: SBLKSF 01AUG98-16A 15A/1ML INST. ID: F16
 CONDS.: UG/ML *1ML *100%/100% *(NA/NA)/15A NA M



1714

ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980902A

QUANTERRA QUANTITATION SUMMARY

File: 300681MBSFI

Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
Analyst: DAT Instrument Id: F16 Analyzed: 09/02/98 16:29

Compounds with amounts less than 0.20 reported as NOT FOUND

Library						Units: UG/ML	
No	Entry	Name	Mass	Meth	Scan	Ref	Area RRF(L) Amount
1	S1#	1 C130 1,4-DICHLOROBENZENE	152	A	BB	340 1	24026. 1.000 40.000
2	S2#	1 C140 NAPHTHALENE-D8	136	A	BB	530 2	80168. 1.000 40.000
3	S3#	1 C150 ACENAPHTHENE-D10	164	A	BB	828 3	46995. 1.000 40.000
4	S4#	1 C160 PHENANTHRENE-D10	188	A	BB	1086 4	81567. 1.000 40.000
5	S5#	1 C170 CHRYSENE-D12	240	A	BB	1552 5	76304. 1.000 40.000
6	S6#	1 C175 PERYLENE-D12	264	A	BB	1783 6	67873. 1.000 40.000
7	S2#	2 C520 NITROBENZENE-D5	82	A	BB	422 2	25918. 0.470 27.541
8	S3#	3 C525 2-FLUOROBIPHENYL	172	A	BB	723 3	37757. 1.234 26.037
9	S5#	2 C530 TERPHENYL-D14	244	A	BB	1384 5	71990. 0.995 37.920
10	S1#	3 C545 PHENOL-D5	99	A	BB	308 1	20583. 2.025 16.918
11	S1#	2 C550 2-FLUOROPHENOL	112	A	BB	197 1	29385. 1.368 35.755
12	S3#	2 C555 2,4,6-TRIBROMOPHENO	330	A	BB	968 3	20063. 0.236 72.466
13	S1#	5 C570 2-CHLOROPHENOL-D4	132			1	NOT FOUND
14	S1#	6 C575 1,2-DICHLOROBENZENE-D4	152			1	NOT FOUND
15	S4#	4 C575 1,2-DICHLOROBENZENE-D4	294			4	NOT FOUND
16	S1#	15 C310 N-NITROSODIMETHYLAM	74			1	NOT FOUND
17	S1#	20 PYRIDINE	79			1	NOT FOUND
18	S1#	30 2-PICOLINE	93			1	NOT FOUND
19	S1#	40 N-NITROSOMETHYLETHYLAMIN	42			1	NOT FOUND
20	S1#	60 METHYLMETHANESULFONATE	80			1	NOT FOUND
21	S1#	70 N-NITROSODIETHYLAMINE	102			1	NOT FOUND
22	S1#	85 ETHYLMETHANE SULFONATE	79			1	NOT FOUND
23	S1#	95 PENTACHLOROETHANE	117			1	NOT FOUND
24	S1#	100 C320 ANILINE	93			1	NOT FOUND
25	S1#	105 C315 PHENOL	94			1	NOT FOUND
26	S1#	110 C325 BIS(2-CHLOROETHYL)E	93			1	NOT FOUND
27	S1#	115 C330 2-CHLOROPHENOL	128			1	NOT FOUND
28	S1#	125 C335 1,3-DICHLOROBENZENE	146			1	NOT FOUND
29	S1#	130 C340 1,4-DICHLOROBENZENE	146			1	NOT FOUND
30	S1#	145 C345 BENZYL ALCOHOL	108			1	NOT FOUND
31	S1#	150 C350 1,2-DICHLOROBENZENE	146			1	NOT FOUND
32	S1#	160 C355 2-METHYLPHENOL	108			1	NOT FOUND
33	S1#	165 C360 2,2'-OXYBIS(1-CLPRO	45			1	NOT FOUND
34	S1#	170 C361 ACETOPHENONE	105			1	NOT FOUND
35	S1#	175 N-NITROSOPYRROLIDINE	100			1	NOT FOUND
36	S1#	180 N-NITROSOMORPHOLINE	56			1	NOT FOUND
37	S1#	182 3-METHYL PHENOL	108			1	NOT FOUND
38	S1#	185 C365 4-METHYLPHENOL	108			1	NOT FOUND
39	S1#	190 C370 N-NITROSO-DI-N-PROP	70			1	NOT FOUND
40	S1#	195 O-TOLUIDINE	106			1	NOT FOUND
41	S1#	200 C375 HEXACHLOROETHANE	117			1	NOT FOUND
42	S2#	10 C410 NITROBENZENE	77			2	NOT FOUND
43	S2#	15 N-NITROSOPIPERIDINE	42			2	NOT FOUND
44	S2#	20 C415 ISOPHORONE	82			2	NOT FOUND
45	S2#	25 C420 2-NITROPHENOL	139			2	NOT FOUND

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46 S2# 30 C425 2,4-DIMETHYLPHENOL	107	2	NOT FOUND
47 S2# 35 C435 BIS(2-CHLOROETHOXY)	93	2	NOT FOUND
48 S2# 40 C440 2,4-DICHLOROPHENOL	162	2	NOT FOUND
49 S2# 45 C430 BENZOIC ACID	122	2	NOT FOUND

50 S2# 50	AA-DIMETHYLPHENETHYLAMIN	58	2	NOT FOUND
51 S2# 55	C445 1,2,4-TRICHLOROENZ	180	2	NOT FOUND
52 S2# 60	C450 NAPHTHALENE	128	2	NOT FOUND
53 S2# 80	C455 4-CHLOROANALINE	127	2	NOT FOUND
54 S2# 85	2,6-DICHLOROPHENOL	162	2	NOT FOUND
55 S2# 90	HEXACHLOROPROPENE	213	2	NOT FOUND
56 S2# 95	C460 HEXACHLOROBUTADIENE	225	2	NOT FOUND
57 S2#115	P-PHENYLENE DIAMINE	108	2	NOT FOUND
58 S2#120	N-NITROSODI-N-BUTYLAMINE	84	2	NOT FOUND
59 S2#130	C465 4-CHLORO-3-METHYLPH	107	2	NOT FOUND
60 S2#140	SAFROLE	162	2	NOT FOUND
61 S2#145	C470 2-METHYLNAPHTHALENE	142	2	NOT FOUND
62 S3# 10	1,2,4,5-TETRACHLOROBENZE	214	3	NOT FOUND
63 S3# 15	ISOSAFROLE (#1)	162	3	NOT FOUND
64 S3# 20	C510 HEXACHLOROCYCLOPENT	237	3	NOT FOUND
65 S3# 25	C515 2,4,6-TRICHLOROPHEN	196	3	NOT FOUND
66 S3# 30	C520 2,4,5-TRICHLOROPHEN	196	3	NOT FOUND
67 S3# 35	ISOSAFROLE (#2)	104	3	NOT FOUND
68 S3# 40	C525 2-CHLORONAPHTHALENE	162	3	NOT FOUND
69 S3# 42	1-CHLORONAPHTHALEN	162	3	NOT FOUND
70 S3# 45	C530 2-NITROANALINE	65	3	NOT FOUND
71 S3# 50	1,4-NAPHTHOQUINONE	158	3	NOT FOUND
72 S3# 55	C535 DIMETHYLPHTHALATE	163	3	NOT FOUND
73 S3# 60	1,3-DINITROBENZENE	168	3	NOT FOUND
74 S3# 65	C540 ACENAPHTHYLENE	152	3	NOT FOUND
75 S3# 70	C543 2,6-DINITROTOLUENE	165	3	NOT FOUND
76 S3# 75	C545 3-NITROANILINE	138	3	NOT FOUND
77 S3# 80	C550 ACENAPHTHENE	153	3	NOT FOUND
78 S3# 85	C555 2,4-DINITROPHENOL	184	3	NOT FOUND
79 S3# 90	C565 DIBENZOFURAN	168	3	NOT FOUND
80 S3# 95	C560 4-NITROPHENOL	109	3	NOT FOUND
81 S3#100	PENTACHLOROBENZENE	250	3	NOT FOUND
82 S3#105	C570 2,4-DINITROTOLUENE	165	3	NOT FOUND
83 S3#110	1-NAPHTHYLAMINE	143	3	NOT FOUND
84 S3#115	2-NAPHTHYLAMINE	143	3	NOT FOUND
85 S3#120	2,3,4,6-TETRACHLOROPHENO	232	3	NOT FOUND
86 S3#130	C580 DIETHYLPHTHALATE	149	3	NOT FOUND
87 S3#135	C590 FLUORENE	166	3	NOT FOUND
88 S3#140	C585 4-CHLOROPHENYL-PHEN	204	3	NOT FOUND
89 S3#145	5-NITRO-O-TOLUIDINE	152	3	NOT FOUND
90 S3#150	C595 4-NITROANALINE	138	3	NOT FOUND
91 S4# 10	C610 4,6-DINITRO-2-METHY	198	4	NOT FOUND
92 S4# 15	C615 N-NITROSODIPHENYLAM	169	4	NOT FOUND
93 S4# 20	C620 AZOBENZENE	77	4	NOT FOUND
94 S4# 25	SYM-TRINITROBENZENE	75	4	NOT FOUND
95 S4# 30	C625 4-BROMOPHENYL-PHENY	248	4	NOT FOUND
96 S4# 35	PHENACETIN	108	4	NOT FOUND
97 S4# 37	DIALATE	234	4	NOT FOUND
98 S4# 40	C630 HEXACHLOROBENZENE	284	4	NOT FOUND
99 S4# 45	4-AMINOBIIPHENYL	169	4	NOT FOUND
100 S4# 50	C635 PENTACHLOROPHENOL	266	4	NOT FOUND
101 S4# 55	PRONAMIDE	173	4	NOT FOUND
102 S4# 60	PENTACHLORONITROBENZENE	237	4	NOT FOUND
103 S4# 65	C640 PHENANTHRENE	178	4	NOT FOUND
104 S4# 70	C645 ANTHRACENE	178	4	NOT FOUND
105 S4# 75	2SEC BUTYL-4,6-DINITROPHE	211	4	NOT FOUND
106 S4# 80	C647 CARBAZOLE	167	4	NOT FOUND
107 S4# 85	C650 DI-N-BUTYLPHTHALATE	149	A 88 1227 4	732. 1.247 0.288
108 S4#100	4-NITROQUINOLINE-1-OXIDE	190	4	NOT FOUND
109 S4#105	METHAPYRILENE	58	4	NOT FOUND
110 S4#106	ISODRIN	193	4	NOT FOUND

1717

111 S4#110 C655 FLUORANTHENE	202	4	NOT FOUND		
112 S4#120 CHLOROBENZILATE	139	4	NOT FOUND		
113 S5# 10 C710 BENZIDINE	184	5	NOT FOUND		
114 S5# 15 C715 PYRENE	202	5	NOT FOUND		
115 S5# 20 ARAMITE (#1)	185	5	NOT FOUND		
116 S5# 25 ARAMITE (#2)	185	5	NOT FOUND		
117 S5# 30 P-DIMETHYLAMINOAZOBENZEN	120	5	NOT FOUND		
118 S5# 35 3,3'-DIMETHYLBENZIDINE	212	5	NOT FOUND		
119 S5# 37 KEPONE	272	5	NOT FOUND		
120 S5# 40 C720 BUTYLBENZYLPHTHALAT	149	5	NOT FOUND		
121 S5# 45 2-ACETYLAMINOFLUORENE	181	5	NOT FOUND		
122 S5# 50 C730 BENZO(A)ANTHRACENE	228	5	NOT FOUND		
123 S5# 55 C725 3,3'-DICHLOROBENZID	252	5	NOT FOUND		
124 S5# 60 C740 CHRYSENE	228	5	NOT FOUND		
125 S5# 65 C745 BIS(2-ETHYLHEXYL)PH	149	A BB 1604 S	738. 0.980	0.395	
126 S5# 85 3-METHYLCHOLANTHRENE	268	5	NOT FOUND		
127 S6# 10 C760 DI-N-OCTYL PHTHALAT	149	6	NOT FOUND		
128 S6# 15 C765 BENZO(B)FLUORANTHEN	252	6	NOT FOUND		
129 S6# 20 7,12-DIMETHYLBENZANTHRAC	256	6	NOT FOUND		
130 S6# 25 C770 BENZO(K)FLUORANTHEN	252	6	NOT FOUND		
131 S6# 30 HEXACHLOROPHENE	196	6	NOT FOUND		
132 S6# 35 C775 BENZO(A)PYRENE	252	6	NOT FOUND		
133 S6# 55 C780 INDENO(1,2,3-CD)PYR	276	6	NOT FOUND		
134 S6# 60 C785 DIBENZ(A,H)ANTHRACE	278	6	NOT FOUND		
135 S6# 65 C790 BENZO(G,H,I)PERYLEN	276	6	NOT FOUND		

1718

QUANTERRA Internal Standard Check

Standard Filename: ST16980902

Analyzed: 09/02/98 14:53

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980902	23319.		3.78	79260.		5.91	43605.		9.22
Upper Limit	46638.=+200		4.28	158519.=+200		6.41	87211.=+200		9.72
Lower Limit	11659.=+ 50		3.28	39630.=+ 50		5.41	21803.=+ 50		8.72
Filename									
1 300681MBSFI	24026.= 103		3.78	80168.= 101		5.90	46995.= 107		9.21

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980902	76218.		12.09	51424.		17.27	44306.		19.84
Upper Limit	152436.=+200		12.59	102848.=+200		17.77	88612.=+200		20.34
Lower Limit	38109.=+ 50		11.59	25712.=+ 50		16.77	22153.=+ 50		19.34
Filename									
1 300681MBSFI	81567.= 107		12.08	76304.= 148		17.26	67873.= 153		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

Data Reduced by: _____ Date: _____
Data Reviewed by: _____ Date: _____

Data File: 300681MBSFI

QUANTERRA GC/MS TIC REPORT (Part 1)

Sample: SBLKSF 01AUG98-16A 1SA/1ML
Analyst: DAT

INST. ID: F16
Date Analyzed: 09/02/98 16:29
Run Factor: 1.00

# SCAN	Concentration in Sample (UG/A)	CAS #
1 486	4.5	541-02-6
CYCLOPENTASILOXANE, DECAMETHYL-		

2 665	6.0	540-97-6
CYCLOHEXASILOXANE, DODECAMETHYL-		

1720

DATA FILE: 300681MBSF1

QUANTERRA GC/MS TIC REPORT (Part 2)

CONCENTRATION = AREA(TIC)*CONC(IS)/AREA(IS)

			INT.				AMOUNT			
#	FIT	PURITY	STD.	RT	RRT	AREA	HEIGHT	(UG/ML)	LIB	LIB #
1	945	872	1	5:24	0.917	19664.	7045.	4.476	NB	51262.
2	901	836	1	7:23	1.255	26330.	9065.	5.993	NB	56707.

1721

Library Search Data: 300681MBSFI # 486 Base m/z: 73
 09/02/98 16:29:00 + 5:24 Cali: 300681MBSFI # 3 RIC: 6464.
 Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 530 matched at least 3 of the 16 largest peaks in the unknown

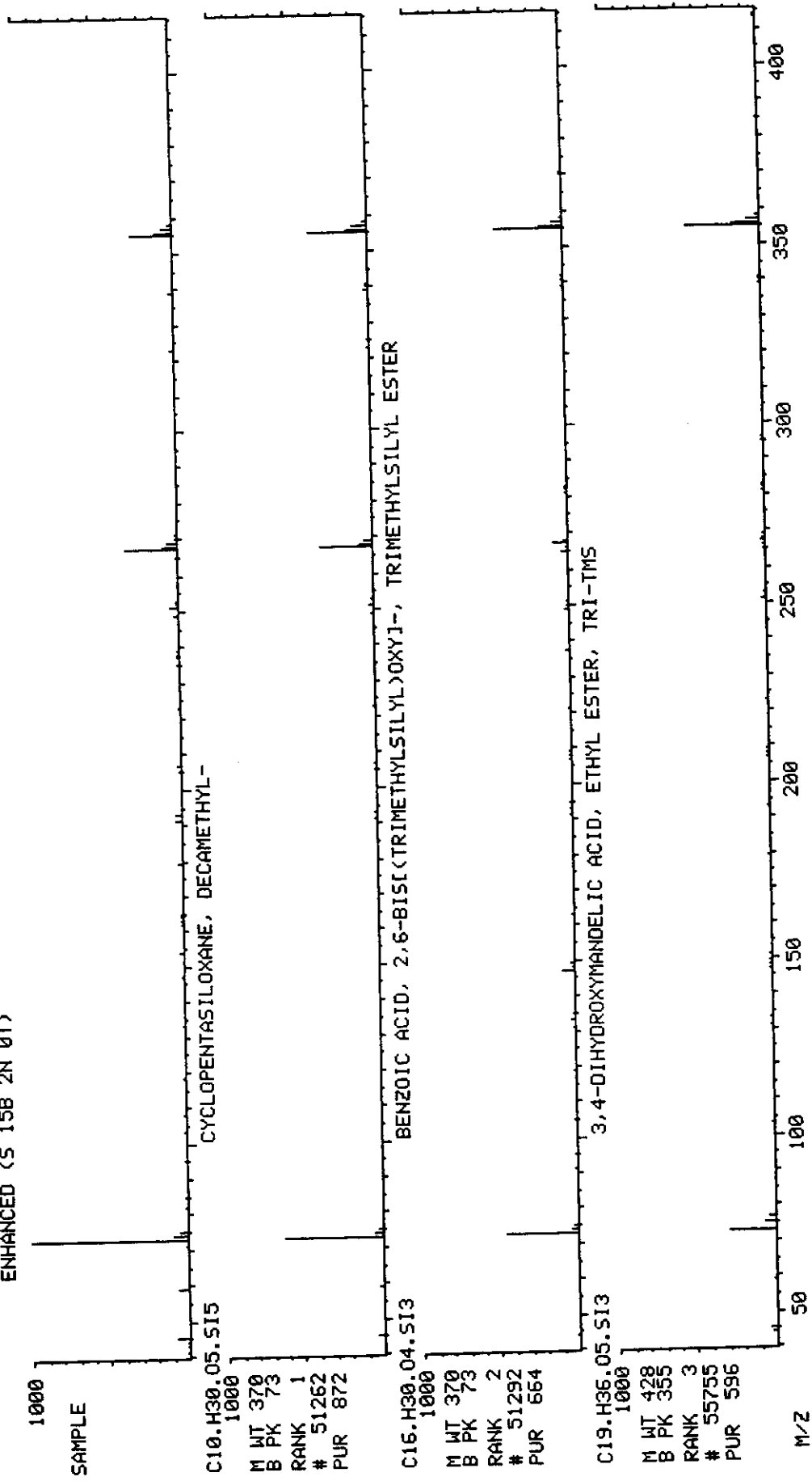
Rank In. Name
 1 51262 CYCLOPENTASILOXANE, DECAMETHYL-
 2 51292 BENZOIC ACID, 2,6-BIS[(TRIMETHYLSILYL)OXY]-, TRIMETHYLSILYL ESTER
 3 55755 3,4-DIHYDROXYMANDELIC ACID, ETHYL ESTER, TRI-TMS
 4 51291 BENZOIC ACID, 2,5-BIS[(TRIMETHYLSILOXY)-, TRIMETHYLSILYL ESTER
 5 60158 N-(TRIFLUOROACETYL)-N,O,O',O''-TETRAKIS(TRIMETHYLSILYL)NOREPINEPHRI*
 6 58322 N-(TRIFLUOROACETYL)-O,O',O''-TRIS(TRIMETHYLSILYL)NOREPINEPHRINE
 7 58803 N-(TRIFLUOROACETYL)-O,O',O''-TRIS(TRIMETHYLSILYL)EPINEPHRINE
 8 60335 BENZENEETHANAMINE, N-[(PENTAFLUOROPHENYL)METHYLENE]-.BETA.,3,4-TRIS*
 9 49864 3,4-DIHYDROXYBENZYL ALCOHOL,TRIS(TRIMETHYLSILYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H30.O5.S15	370	73	872	945	891
2	C16.H30.O4.S13	370	73	664	775	728
3	C19.H36.O5.S13	428	355	596	677	660
4	C16.H30.O4.S13	370	355	592	665	660
5	C22.H42.O4.N.F3.S14	553	73	589	749	621
6	C19.H34.O4.N.F3.S13	481	73	577	711	628
7	C20.H36.O4.N.F3.S13	495	73	561	710	616
8	C24.H34.O3.N.F5.S13	563	355	558	699	607
9	C16.H32.O3.S13	356	73	549	792	601

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	541-02-6
2	—	—	—	—	3782-85-2
3	—	—	—	—	- -
4	—	—	—	—	3618-20-0
5	—	—	—	—	- -
6	—	—	—	—	- -
7	—	—	—	—	- -
8	—	—	—	—	55429-13-5
9	—	—	—	—	68595-79-9

1722

MID LIBRARY SEARCH (LIBRARYNB)
 09/02/98 16:29:00 + 5:24
 SAMPLE: SBLKSF 01AUG98-16A 15A/1ML
 CONDS.: UG/ML *1ML *1002/1002 *(NA/NA)/15A NA M
 ENHANCED (S 15B 2N 0T)
 DATA: 300681MBSFI # 486 BASE M/Z: 73
 CALI: 300681MBSFI # 3 RIC: 6464.
 INST. ID: F16



Library Search Data: 300681MBSFI # 665 Base m/z: 73
 09/02/98 16:29:00 + 7:24 Cali: 300681MBSFI # 3 RIC: 8352.
 Sample: SBLKSF 01AUG98-16A 1SA/1ML INST. ID: F16
 Conds.: UG/ML *1ML *100%/100% *(NA/NA)/1SA NA M
 Enhanced (S 15B 2N 0T)

62231 spectra in LIBRARYNB searched for maximum PURITY
 425 matched at least 3 of the 16 largest peaks in the unknown

Rank In. Name
 1 56707 CYCLOHEXASILOXANE, DODECAMETHYL-
 2 59692 1,1,1,5,7,7,7-HEPTAMETHYL-3,3,5-TRIS(TRIMETHYLSILOXY)TETRASILOXANE
 3 58659 1,1,1,3,5,7,9,11,11,11-DECAMETHYL-5-(TRIMETHYLSILOXY)HEXASILOXANE
 4 58080 3,3,5-TRIETHOXY-1,1,1,7,7,7-HEXAMETHYL-5-(TRIMETHYLSILOXY)TETRASI*
 5 48333 2H-1,4-BENZODIAZEPIN-2-ONE, 7-CHLORO-1,3-DIHYDRO-5-PHENYL-1-(TRIMET*
 6 56710 1,1,1,5,7,7,7-HEPTAMETHYL-3,3-BIS(TRIMETHYLSILOXY)TETRASILOXANE
 7 49835 ACETIC ACID, [BIS[(TRIMETHYLSILYL)OXY]PHOSPHINYL]-, TRIMETHYLSILYL *
 8 60248 3,3,5-TRIBUTOXY-1,1,1,7,7,7-HEXAMETHYL-5-(TRIMETHYLSILOXY)TETRASILO*
 9 48319 1,3,5-TRIS(TRIMETHYLSILOXY)BENZENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H36.O6.SI6	444	73	836	901	855
2	C16.H48.O6.SI7	532	73	546	721	729
3	C13.H42.O6.SI7	490	73	471	678	650
4	C15.H42.O7.SI5	474	73	458	569	614
5	C18.H19.O.N2.CL.SI	342	73	447	776	517
6	C13.H40.O5.SI6	444	73	430	588	600
7	C11.H29.O5.P.SI3	356	341	418	569	660
8	C21.H54.O7.SI5	558	73	399	505	590
9	C15.H30.O3.SI3	342	342	372	540	435

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	540-97-6
2	—	—	—	—	34915-06-5
3	—	—	—	—	50694-26-3
4	—	—	—	—	- -
5	—	—	—	—	55299-24-6
6	—	—	—	—	38147-00-1
7	—	—	—	—	53044-27-2
8	—	—	—	—	72439-86-2
9	—	—	—	—	10586-12-6

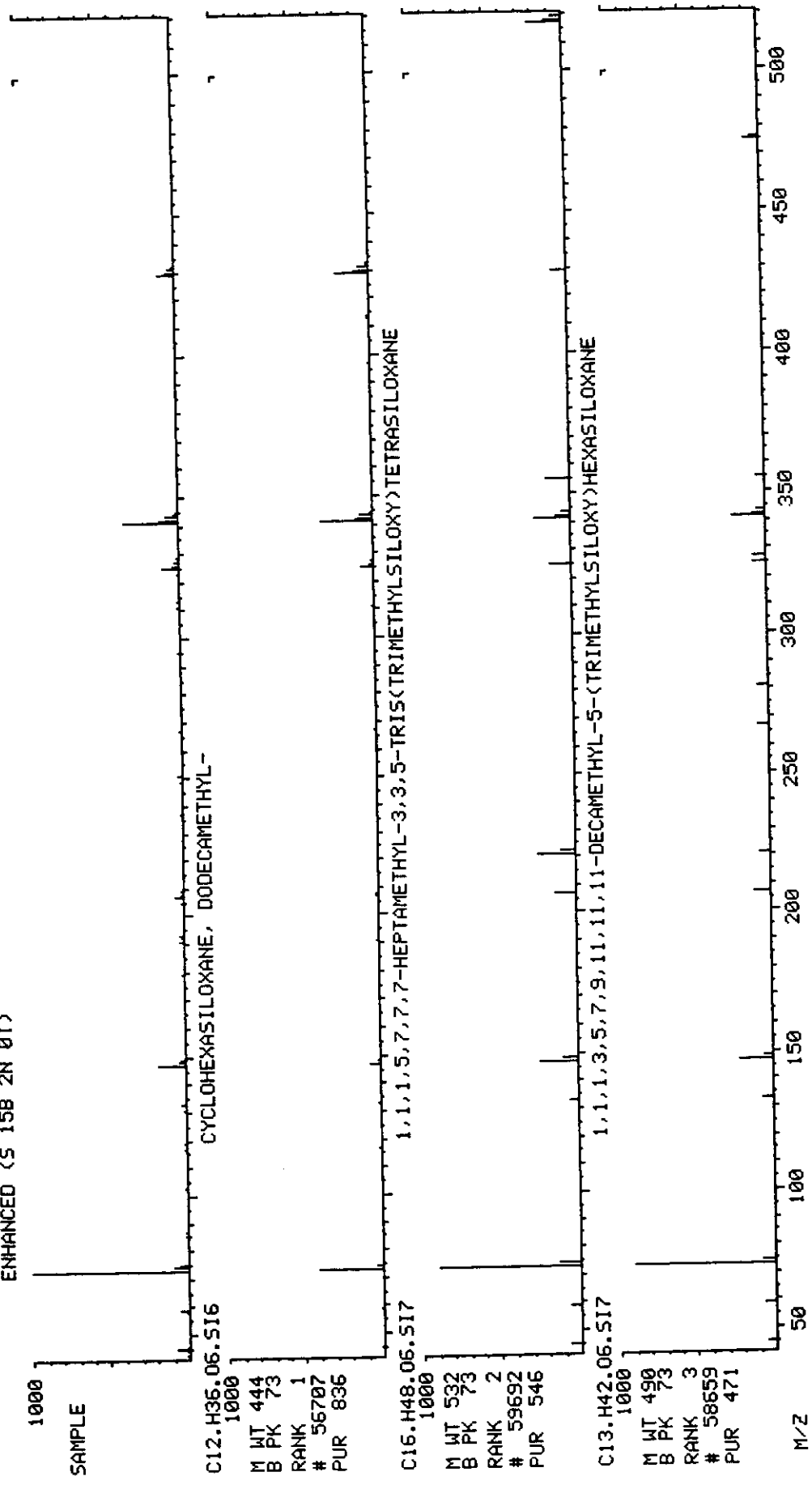
1724

DATA: 300681MBSFI # 665
CALI: 300681MBSFI # 3
RIC: 8352.

INST. ID: F16

09/02/98 16:29:00 + 7:24
SAMPLE: SBLKSF 01AUG98-16A 15A/1ML
CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA)/15A NA M
ENHANCED (5 15B 2N 0T)

MTD LIBRARY SEARCH (LIBRARYNB)



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CU

TIC SELECTION REPORT

DATA FILE: 300681MBSF1

THE FOLLOWING PEAKS WERE REJECTED BECAUSE
AT LEAST 40 % OF THEIR SIZE WAS ACCOUNTED FOR BY
TARGET COMPOUNDS ELUTING WITHIN 4 SCANS OF THE
PEAK TOP.

SCAN	SIZE	AMOUNT
197	98212.	22.354
308	55052.	12.530
340	149548.	34.039
422	65244.	14.850
530	175738.	40.000
723	113212.	19.967
828	226798.	40.000
969	163679.	30.306
1086	216033.	40.000
1384	260393.	44.628
1384	260393.	44.628
1552	233390.	40.000
1784	229389.	40.000

TOTAL NUMBER OF UNIDENTIFIED PEAKS WITH SIZE
GREATER THAN 10 % OF THE CLOSEST INTERNAL STANDARD
THAT DOES NOT HAVE INTERFERENCES = 2

INTERNAL STANDARDS THAT HAVE RIC SIZE LESS THAN
50 % OR GREATER THAN 200 % OF THE ESTIMATED RIC SIZE
ARE CONSIDERED TO HAVE INTERFERENCES AND WILL NOT BE USED
FOR QUANTITATION.

#	INTERNAL STANDARD	RIC SIZE	PERCENT OF ESTIMATED RIC SIZE	SCAN
1	C140 NAPHTHALENE-D8	175738.	137	530
2	C150 ACENAPHTHENE-D10	226798.	134	828
3	C160 PHENANTHRENE-D10	216033.	116	1086
4	C170 CHRYSENE-D12	233390.	124	1552
5	C175 PERYLENE-D12	229389.	126	1784

* INDICATES INTERFERENCE

SIZE = AREA

J. 725

Laboratory/Duplicate Control Sample

DUPLICATE CONTROL SAMPLE REPORT
Semivolatile Organics by GC/MS
Project: 300681

Category: 8270-G Acid, Base and Neutrals by GC/MS.
Testcode: 8270-TCL-G
Matrix: FILTER
QC Lot: 31 JUL 98-16A
Method: 0010/8270
Concentration Units: ug/sample
Analyzed Date: 31 AUG 98
Time: 18:30

Analyte	Spiked	-----Concentration-----		Accuracy (%)		Limits	Precision (RPD)	
		-----Measured-----		DCS1	DCS2		DCS	Limit
		DCS1	DCS2					
Phenol	100	83.4	87.9	83	88	47-108	5.3	18
2-Chlorophenol	100	83.7	87.9	84	88	47-113	4.9	20
1,4-Dichlorobenzene	50.0	43.4	44.9	87	90	42-114	3.4	22
N-Nitroso-di-n-propylamine	50.0	38.3	40.9	77	82	46-107	6.6	15
1,2,4-Trichlorobenzene	50.0	43.1	45.9	86	92	45-118	6.3	16
4-Chloro-3-methylphenol	100	78.6	85.8	79	86	55-118	8.8	13
Acenaphthene	50.0	46.6	50.2	93	100	54-119	7.4	10
4-Nitrophenol	100	78.8	89.6	79	90	43-166	13	17
2,4-Dinitrotoluene	50.0	45.3	49.0	91	98	59-113	7.8	10
Pentachlorophenol	100	83.4	93.6	83	94	59-128	12	10
Pyrene	50.0	48.0	50.7	96	101	45-140	5.5	11

*

Surrogate	Spiked	-----Concentration-----		Accuracy (%)		Limits
		-----Measured-----		DCS1	DCS2	
		DCS1	DCS2			
Nitrobenzene-d5	50	40	40	79	79	45-107
2-Fluorobiphenyl	50	45	46	90	92	62-110
Terphenyl-d14	50	40	40	79	80	58-135
Phenol-d5	100	80	81	80	81	43-130
2-Fluorophenol	100	77	74	77	74	36-111
2,4,6-Tribromophenol	100	84	84	84	84	58-131

Note *: Outside of RPD limits.
Calculations are performed before rounding to avoid round-off errors in calculated results.

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBXMS
Std Id: ST16980831

Sample: DCS-A 31JUL98-16A 1/3SA/1ML
Client: PACIFI
Analyst: DAT Instrument ID: F16
Quan List Threshold: 0.95

INST. ID: F16
Date Analyzed: 08/31/98 18:00
Run Factor: 3.00
Surrogate Vol.: 1.00

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	QC limits
	Spiked	Measured		
CS20 NITROBENZENE-D5	50.00	39.70	79.4	45 107
CS25 2-FLUOROBIPHENY	50.00	44.80	89.6	62 110
CS30 TERPHENYL-D14	50.00	39.60	79.2	58 135
CS45 PHENOL-D5	100.0	80.00	80.0	43 130
CS50 2-FLUOROPHENOL	100.0	77.20	77.2	36 111
CS55 2,4,6-TRIBROMOP	100.0	83.90	83.9	58 131

Target Compounds: MS

Parameter	Scan	Result	Units	Reporting
				Limit (J values)
CS70 2-CHLOROPHENOL-D4		ND	UG/A	30.0
CS75 1,2-DICHLOROBNZN-D4	340	~~130~~ 130. ~~13.3~~	UG/A	30.0
C315 PHENOL	309	~~250~~ 250. ~~23.5~~	UG/A	30.0
C330 2-CHLOROPHENOL	314	~~250~~ 250. ~~23.3~~	UG/A	30.0
C340 1,4-DICHLOROBENZENE	342	~~130~~ 130. ~~13.3~~	UG/A	30.0
C370 N-NITROSO-DI-N-PROPYLAM	408	~~110~~ 110. ~~11.3~~	UG/A	30.0
C445 1,2,4-TRICHLOROBENZENE	524	130.	UG/A	30.0
C465 4-CHLORO-3-METHYLPHENO	649	240.	UG/A	30.0
C550 ACENAPHTHENE	833	140.	UG/A	30.0
C560 4-NITROPHENOL	885	240.	UG/A	150.0
C570 2,4-DINITROTOLUENE	878	140.	UG/A	30.0
C635 PENTACHLOROPHENOL	1061	250.	UG/A	150.0
C715 PYRENE	1334	140.	UG/A	30.0

See Quan report for adjusted
amounts found.

2 9/17/98

29/17/98

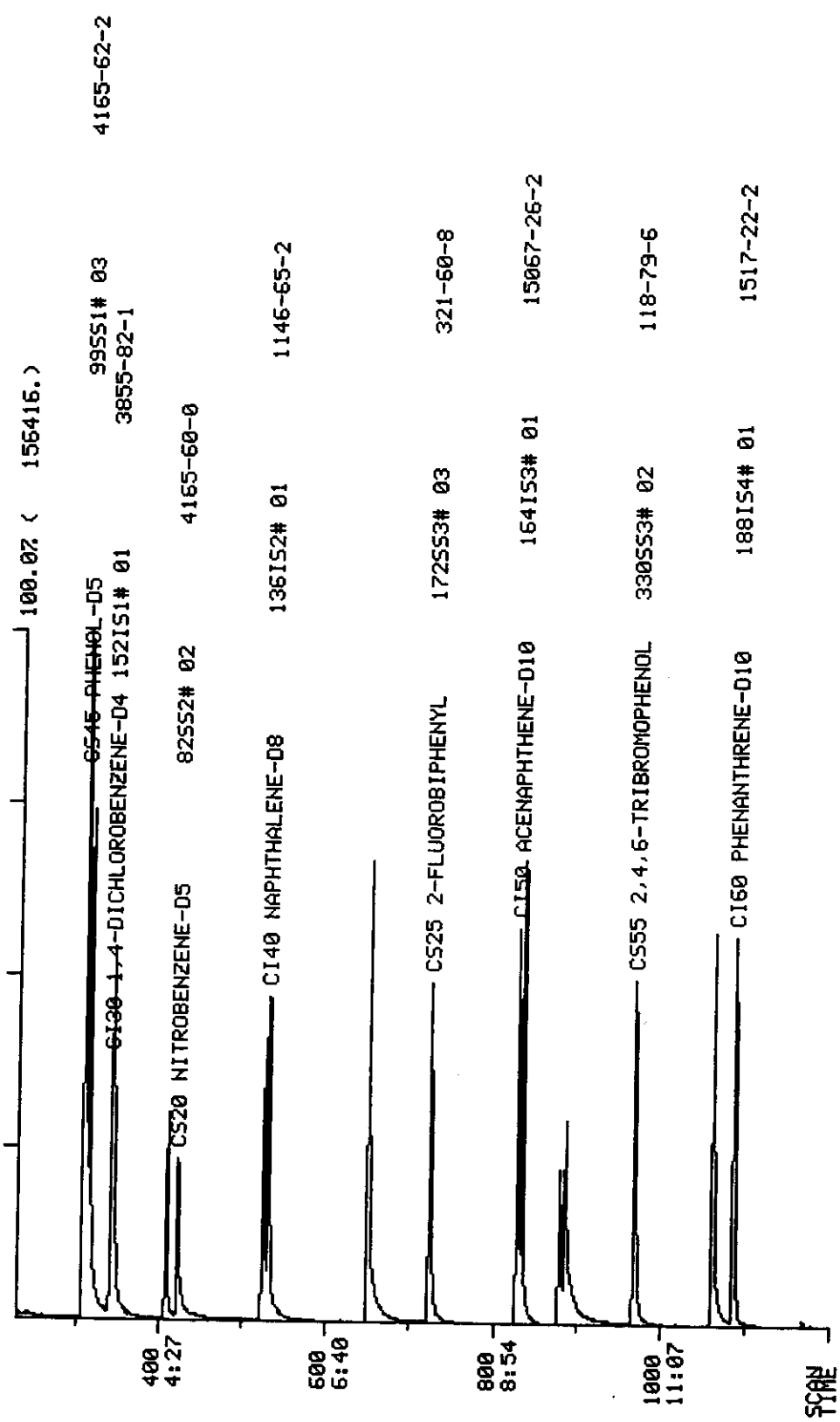
Reviewed by:

149/17/98

1729

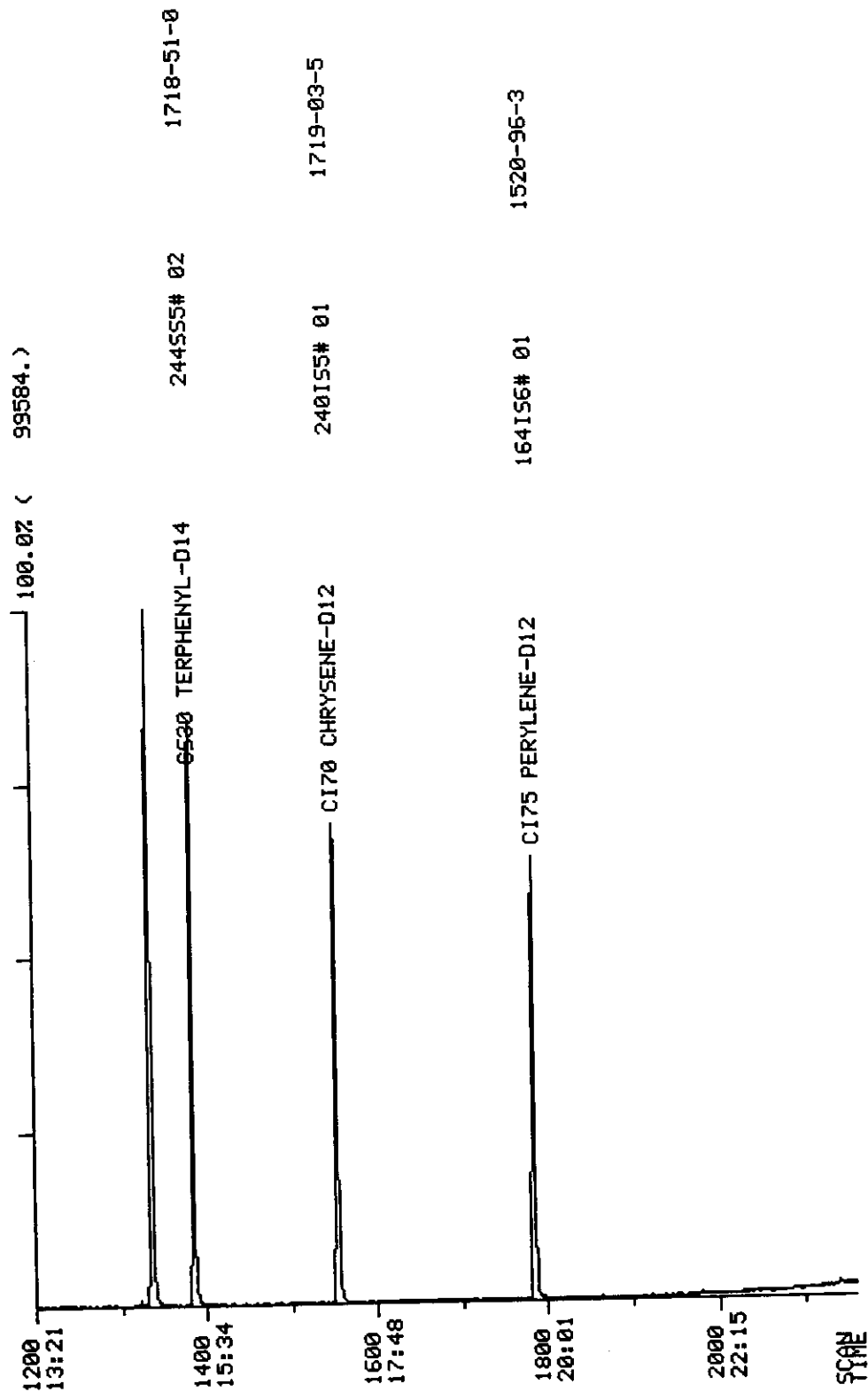
12/17/98

DATA FROM FILE: 300681MBXMS SCANS 230 TO 1200 ACQUIRED: 08/31/98 18:00:00
 SAMPLE: DCS-A 31JUL98-16A 1/35A/1ML CALI: 300681MBXMS #3
 CONDS.: UG/ML *1002/1002 *(NA/NA) 1/35A NA M INST. ID: F16



17200

DATA FROM FILE: 300681MBXMS SCANS 1200 TO 2158 ACQUIRED: 08/31/98 18:00:00
 CALI: 300681MBXMS #3
 SAMPLE: DCS-A 31JUL98-16A 1/35A/1ML INST. ID: F16
 CONDS.: UG/ML *100%/100% *(NA/NA) /1/35A NA M



ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 300681MBXMS

Sample: DCS-A 31JUL98-16A 1/3SA/1ML

INST. ID: F16

Analyst: DAT

Instrument Id: F16

Analyzed: 08/31/98 18:00

Compounds with amounts less than 0.20 reported as NOT FOUND

Library						Units: UG/ML	
No Entry	Name	Mass Meth	Scan Ref	Area RRF(L)	Amount		
1 S1#	1 C130 1,4-DICHLOROBENZENE	152 A BB	340 1	27622. 1.000	40.000		
2 S2#	1 C140 NAPHTHALENE-D8	136 A BB	529 2	96564. 1.000	40.000		
3 S3#	1 C150 ACENAPHTHENE-D10	164 A BB	828 3	53847. 1.000	40.000		
4 S4#	1 C160 PHENANTHRENE-D10	188 A BB	1086 4	91222. 1.000	40.000		
5 S5#	1 C170 CHRYSENE-D12	240 A BB	1551 5	71648. 1.000	40.000		
6 S6#	1 C175 PERYLENE-D12	264 A BB	1783 6	59838. 1.000	40.000		
7 S2#	2 CS20 NITROBENZENE-D5	82 A BB	421 2	45031. 0.470	39.726		
8 S3#	3 CS25 2-FLUOROBIPHENYL	172 A BB	723 3	74360. 1.234	44.752		
9 S5#	2 CS30 TERPHENYL-D14	244 A BB	1383 5	70651. 0.995	39.633		
10 S1#	3 CS45 PHENOL-D5	99 A BB	307 1	111877. 2.025	79.986		
11 S1#	2 CS50 2-FLUOROPHENOL	112 A BB	196 1	72896. 1.368	77.152		
12 S3#	2 CS55 2,4,6-TRIBROMOPHENO	330 A BB	968 3	26620. 0.236	83.911		
13 S1#	5 CS70 2-CHLOROPHENOL-D4	132	1 NOT FOUND				
14 S1#	6 CS75 1,2-DICHLOROBENZ-D4	152 A BB	340 1	27622. 0.920	43.476		
15 S1#105	C315 PHENOL	94 A BB	309 1	113308. 1.968	83.383		
16 S1#115	C330 2-CHLOROPHENOL	128 A BB	314 1	86494. 1.497	83.677		
17 S1#130	C340 1,4-DICHLOROBENZENE	146 A BB	342 1	48430. 1.617	43.359		
18 S1#190	C370 N-NITROSO-DI-N-PROP	70 A BB	408 1	23952. 0.906	38.290		
19 S2# 55	C445 1,2,4-TRICHLOROBENZ	180 A BB	524 2	34453. 0.331	43.126		
20 S2#130	C465 4-CHLORO-3-METHYLPH	107 A BB	649 2	64106. 0.338	78.625		
21 S3# 80	C550 ACENAPHTHENE	153 A BB	833 3	72613. 1.159	46.555		
22 S3# 95	C560 4-NITROPHENOL	109 A BB	885 3	18323. 0.173	78.836		
23 S3#105	C570 2,4-DINITROTOLUENE	165 A BB	878 3	24212. 0.397	45.277		
24 S4# 50	C635 PENTACHLOROPHENOL	266 A BB	1061 4	29475. 0.155	83.363		
25 S5# 15	C715 PYRENE	202 A BB	1334 5	113602. 1.323	47.954		

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.=+200		4.28	200864.=+200		6.40	108695.=+200		9.71
Lower Limit	14324.=+ 50		3.28	50216.=+ 50		5.40	27174.=+ 50		8.71
Filename									
1 300681MBXMS	27622.= 96		3.78	96564.= 96		5.88	53847.= 99		9.21

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.=+200		12.58	124578.=+200		17.76	101500.=+200		20.33
Lower Limit	49260.=+ 50		11.58	31145.=+ 50		16.76	25375.=+ 50		19.33
Filename									
1 300681MBXMS	91222.= 92		12.08	71648.= 115		17.25	59838.= 117		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBXDS

Std Id: ST16980831

Sample: DCS-AD 31JUL98-16A 1/3SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 08/31/98 18:30

Analyst: DAT Instrument ID: F16

Run Factor: 3.00

Quan List Threshold: 0.95

Surrogate Vol.: 1.00

Surrogate Spike Recoveries

8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	
	Spiked	Measured	Measured	QC limits
CS20 NITROBENZENE-D5	50.00	39.50	79.0	45 107
CS25 2-FLUOROBIPHENY	50.00	46.00	92.0	62 110
CS30 TERPHENYL-D14	50.00	40.20	80.4	58 135
CS45 PHENOL-D5	100.0	80.60	80.6	43 130
CS50 2-FLUOROPHENOL	100.0	74.20	74.2	36 111
CS55 2,4,6-TRIBROMOP	100.0	83.90	83.9	58 131

Target Compounds: MS

Parameter	Scan	Result	Units	Reporting
				Limit (J values)
CS70 2-CHLOROPHENOL-D4		ND	UG/A	30.0
CS75 1,2-DICHLOROBNZN-D4	340	130.	UG/A	30.0
C315 PHENOL	309	260.	UG/A	30.0
C330 2-CHLOROPHENOL	314	260.	UG/A	30.0
C340 1,4-DICHLOROBNZN	343	130.	UG/A	30.0
C370 N-NITROSO-DI-N-PROPYLAM	408	120.	UG/A	30.0
C445 1,2,4-TRICHLOROBNZN	524	140.	UG/A	30.0
C465 4-CHLORO-3-METHYLPHENO	649	260.	UG/A	30.0
C550 ACENAPHTHENE	834	150.	UG/A	30.0
C560 4-NITROPHENOL	885	270.	UG/A	150.0
C570 2,4-DINITROTOLUENE	878	150.	UG/A	30.0
C635 PENTACHLOROPHENOL	1061	280.	UG/A	150.0
C715 PYRENE	1334	150.	UG/A	30.0

Reviewed by:

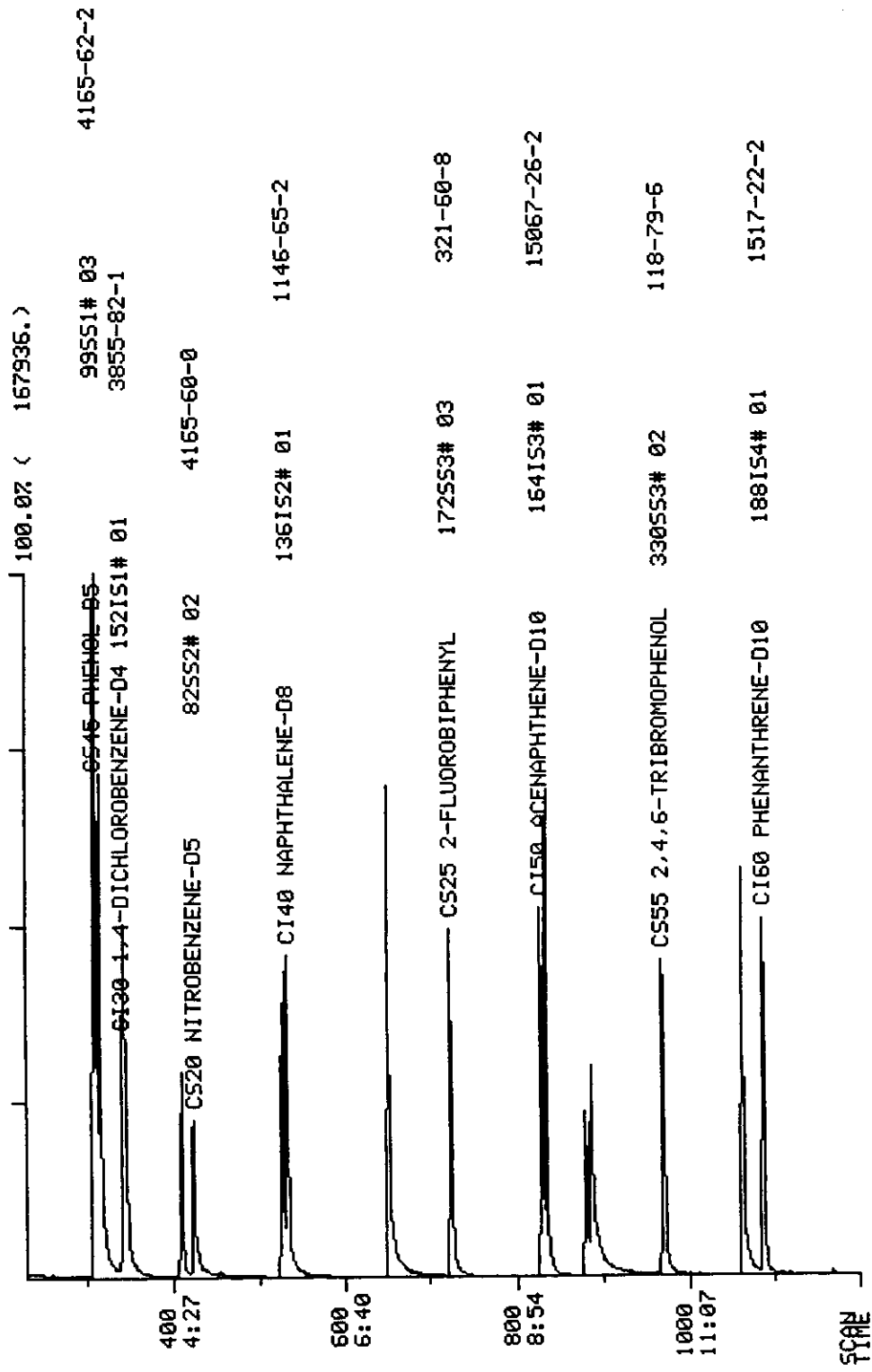
K/9/17/98

DATA FROM FILE: 300581MBXD5 SCANS 230 TO 1200 ACQUIRED: 08/31/98 18:30:00

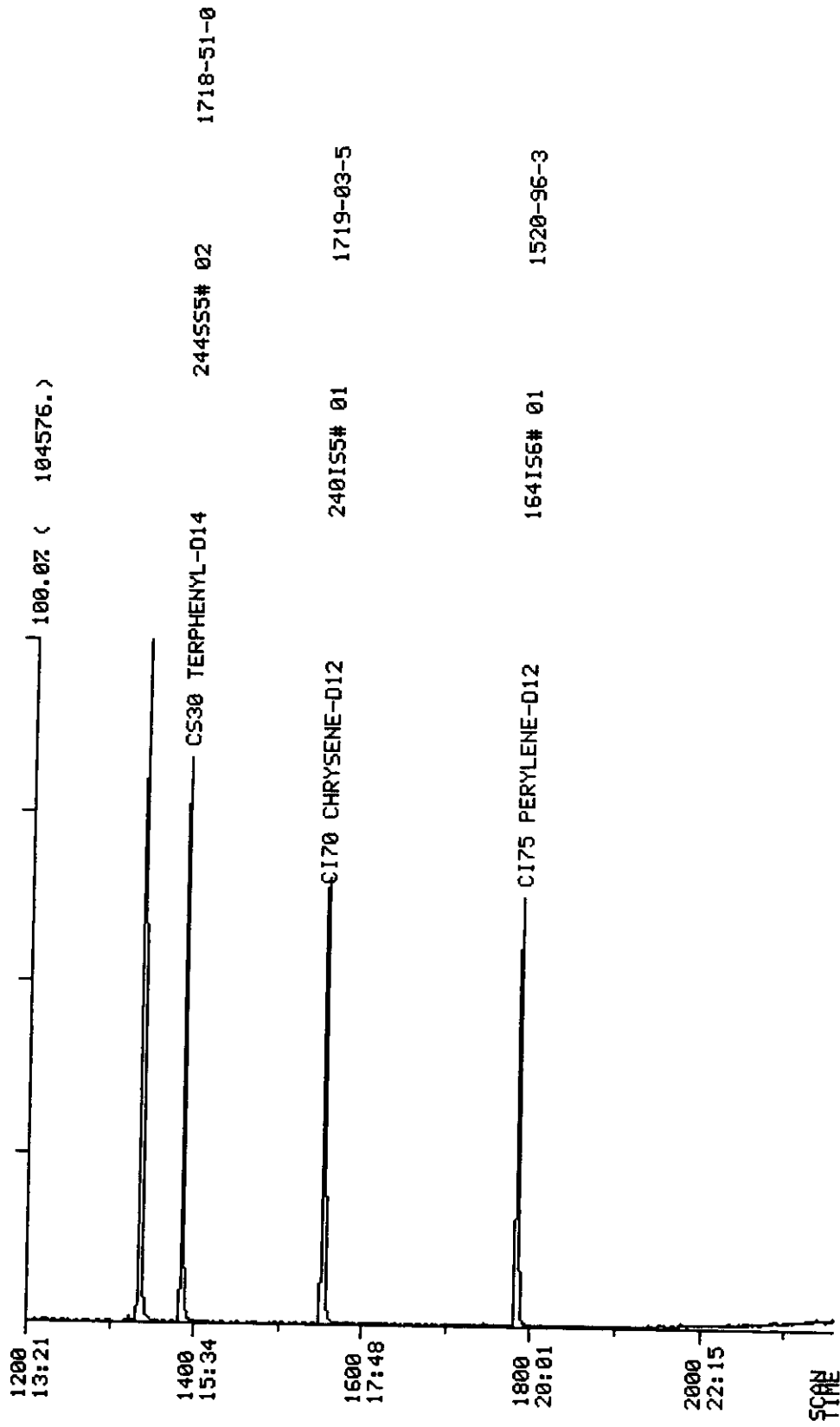
CALI: 300581MBXD5 #3

SAMPLE: DCS-AD 31JUL98-16A 1/35A/1ML INST. ID: F16

CONDS.: UG/ML *100Z/100Z *(NA/NA) 1/35A NA M



DATA FROM FILE: 300681MBXDS SCANS 1200 TO 2158 ACQUIRED: 08/31/98 18:30:00
 SAMPLE: DCS-AD 31JUL98-16A CALI: 300681MBXDS #3
 COND.: UG/ML *1ML *100Z/100Z *(NA/NA) /1/35A NA M INST. ID: F16



ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 300681MBXDS

Sample: DCS-AD 31JUL98-16A 1/3SA/1ML INST. ID: F16
Analyst: DAT Instrument Id: F16 Analyzed: 08/31/98 18:30

Compounds with amounts less than 0.20 reported as NOT FOUND

Library		Units: UG/ML					
No Entry	Name	Mass Meth	Scan Ref	Area RRF(L)	Amount		
1 S1#	1 C130 1,4-DICHLOROBENZENE	152 A BB	340 1	27374. 1.000	40.000		
2 S2#	1 C140 NAPHTHALENE-D8	136 A BB	530 2	96718. 1.000	40.000		
3 S3#	1 C150 ACENAPHTHENE-D10	164 A BB	828 3	53018. 1.000	40.000		
4 S4#	1 C160 PHENANTHRENE-D10	188 A BB	1086 4	87510. 1.000	40.000		
5 S5#	1 C170 CHRYSENE-D12	240 A BB	1551 5	72710. 1.000	40.000		
6 S6#	1 C175 PERYLENE-D12	264 A BB	1783 6	60866. 1.000	40.000		
7 S2#	2 CS20 NITROBENZENE-D5	82 A BB	422 2	44793. 0.470	39.452		
8 S3#	3 CS25 2-FLUOROBIPHENYL	172 A BB	723 3	75190. 1.234	45.960		
9 S5#	2 CS30 TERPHENYL-D14	244 A BB	1384 5	72644. 0.995	40.156		
10 S1#	3 CS45 PHENOL-D5	99 A BB	307 1	111689. 2.025	80.575		
11 S1#	2 CS50 2-FLUOROPHENOL	112 A BB	196 1	69505. 1.368	74.230		
12 S3#	2 CS55 2,4,6-TRIBROMOPHENO	330 A BB	968 3	26207. 0.236	83.902		
13 S1#	5 CS70 2-CHLOROPHENOL-D4	132	1 NOT FOUND				
14 S1#	6 CS75 1,2-DICHLOROBENZ-N-D4	152 A BB	340 1	27374. 0.920	43.476		
15 S1#105	C315 PHENOL	94 A BB	309 1	118368. 1.968	87.896		
16 S1#115	C330 2-CHLOROPHENOL	128 A BB	314 1	90015. 1.497	87.873		
17 S1#130	C340 1,4-DICHLOROBENZENE	146 A BB	343 1	49710. 1.617	44.908		
18 S1#190	C370 N-NITROSO-DI-N-PROP	70 A BB	408 1	25370. 0.906	40.924		
19 S2#	55 C445 1,2,4-TRICHLOROBENZ	180 A BB	524 2	36709. 0.331	45.877		
20 S2#130	C465 4-CHLORO-3-METHYLPH	107 A BB	649 2	70056. 0.338	85.785		
21 S3#	80 C550 ACENAPHTHENE	153 A BB	834 3	77035. 1.159	50.163		
22 S3#	95 C560 4-NITROPHENOL	109 A BB	885 3	20493. 0.173	89.552		
23 S3#105	C570 2,4-DINITROTOLUENE	165 A BB	878 3	25792. 0.397	48.986		
24 S4#	50 C635 PENTACHLOROPHENOL	266 A BB	1061 4	31741. 0.155	93.581		
25 S5#	15 C715 PYRENE	202 A BB	1334 5	121860. 1.323	50.688		

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.=+200		4.28	200864.=+200		6.40	108695.=+200		9.71
Lower Limit	14324.=+ 50		3.28	50216.=+ 50		5.40	27174.=+ 50		8.71
Filename									
1 300681MBXDS	27374.= 95		3.78	96718.= 96		5.90	53018.= 97		9.21

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.=+200		12.58	124578.=+200		17.76	101500.=+200		20.33
Lower Limit	49260.=+ 50		11.58	31145.=+ 50		16.76	25375.=+ 50		19.33
Filename									
1 300681MBXDS	87510.= 88		12.08	72710.= 116		17.25	60866.= 119		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

QC Lot #: 01AUG98-16A

Units: UG/A

QUANTERRA DCS

QC CATEGORY: 8270-G, LIMS 10/10/96

	Data File	Run Factor	Surr Factor	Calibration
Spike:	300681BFMSI	1.00	1.00	Standard
Spike Dup.:	300681BFDSI	1.00	1.00	RF from Lib
				RF from Lib

Compound	Limits	Spike Amount	Amount LCS1 Amount LCS2	% %	RPD Limit
C315 PHENOL	47-108	100.	27.2 26.0	27.2* 26.0*	4.16 18
C330 2-CHLOROPHENOL	47-113	100.	64.9 65.0	64.9 65.0	0.129 20
C340 1,4-DICHLOROBENZENE	42-114	50.0 50.0	27.3 29.3	54.7 58.6	6.96 22
C370 N-NITROSO-DI-N-PROP	46-107	50.0 50.0	35.6 31.8	71.1 63.6	11.1 15
C445 1,2,4-TRICHLOROBENZ	45-118	50.0 50.0	27.7 29.9	55.4 59.8	7.59 16
C465 4-CHLORO-3-METHYLPH	55-118	100. 100.	68.9 62.3	68.9 62.3	10.0 13
C550 ACENAPHTHENE	54-119	50.0 50.0	39.9 37.6	79.9 75.2	6.04 10
C560 4-NITROPHENOL	43-166	100. 100.	20.5 16.4	20.5* 16.4*	22.1 17
C570 2,4-DINITROTOLUENE	59-113	50.0 50.0	46.4 39.5	92.8 78.9	16.1 10
C635 PENTACHLOROPHENOL	59-128	100. 100.	77.0 64.1	77.0 64.1	18.3 10
C715 PYRENE	45-140	50.0 50.0	48.5 43.7	96.9 87.4	10.3 11

1789

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681BFMSI
Std Id: ST16980902

Sample: DCS-A 01AUG98-16A 1SA/1ML
Client: PACIFI
Analyst: DAT Instrument ID: F16
Quan List Threshold: 0.95

INST. ID: F16
Date Analyzed: 09/02/98 18:59
Run Factor: 1.00
Surrogate Vol.: 1.00

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	
	Spiked	Measured	Measured	QC limits
CS20 NITROBENZENE-D5	50.00	31.00	62.0	45 107
CS25 2-FLUOROBIPHENY	50.00	35.80	71.6	62 110
CS30 TERPHENYL-D14	50.00	41.00	82.0	58 135
CS45 PHENOL-D5	100.0	27.00	27.0	* 43 130
CS50 2-FLUOROPHENOL	100.0	37.60	37.6	36 111
CS55 2,4,6-TRIBROMOP	100.0	88.00	88.0	58 131

confirm

Target Compounds: MS

Parameter	Scan	Result	Units	Reporting Limit (J values)
CS70 2-CHLOROPHENOL-D4		ND	UG/A	10.0
CS75 1,2-DICHLOROBNZN-D4		ND	UG/A	10.0
C315 PHENOL	310	27.	UG/A	10.0
C330 2-CHLOROPHENOL	314	65.	UG/A	10.0
C340 1,4-DICHLOROBENZENE	343	27.	UG/A	10.0
C370 N-NITROSO-DI-N-PROPYLAM	408	36.	UG/A	10.0
C445 1,2,4-TRICHLOROBENZENE	524	28.	UG/A	10.0
C465 4-CHLORO-3-METHYLPHENO	650	69.	UG/A	10.0
C550 ACENAPHTHENE	834	40.	UG/A	10.0
C560 4-NITROPHENOL	893	21.	UG/A	50.0 J
C570 2,4-DINITROTOLUENE	879	46.	UG/A	10.0
C635 PENTACHLOROPHENOL	1062	77.	UG/A	50.0
C715 PYRENE	1335	48.	UG/A	10.0

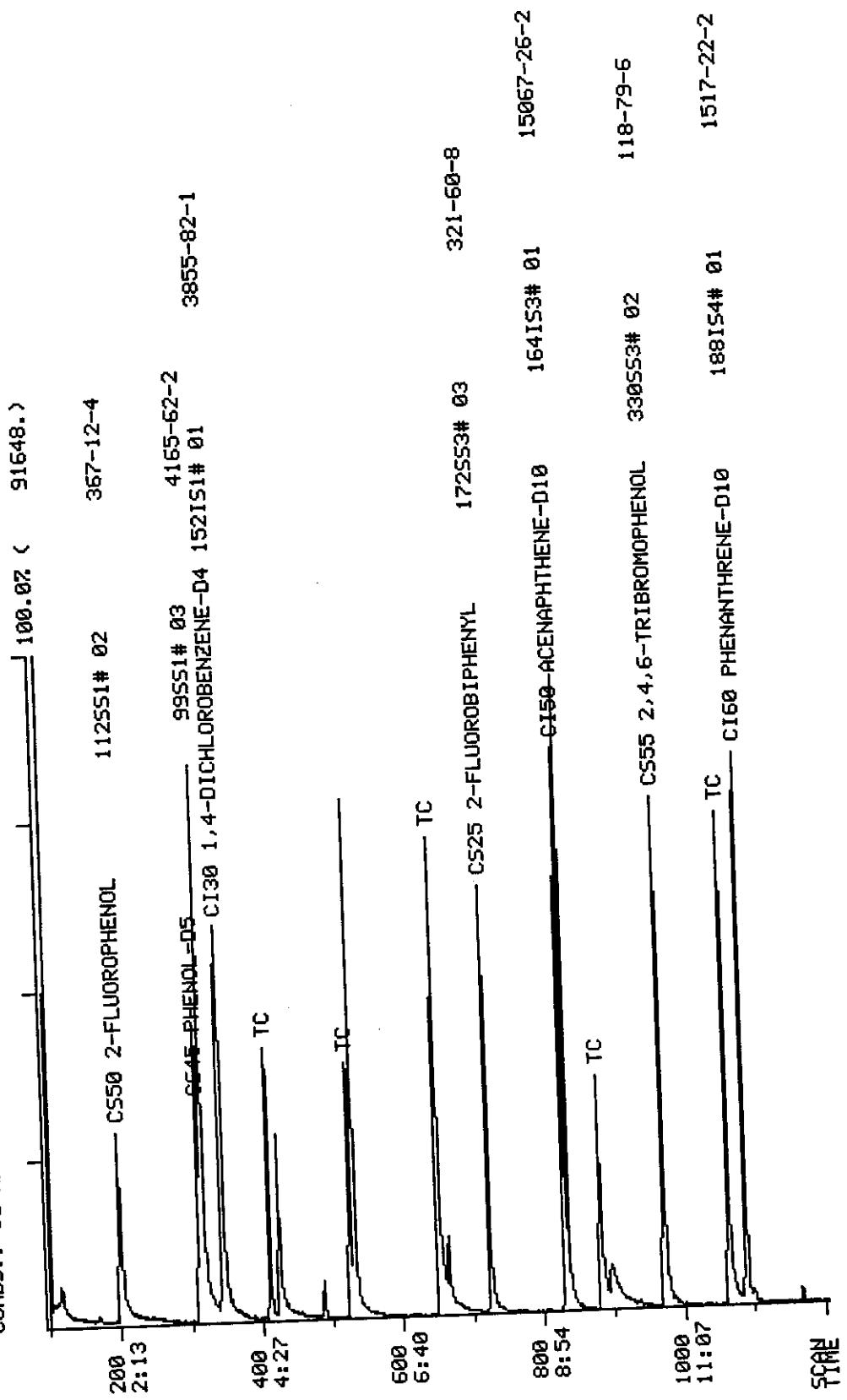
Reviewed by: *[Signature]*

DATA FROM FILE: 300681BFMS1 SCANS 94 TO 1204 ACQUIRED: 09/02/98 18:59:00

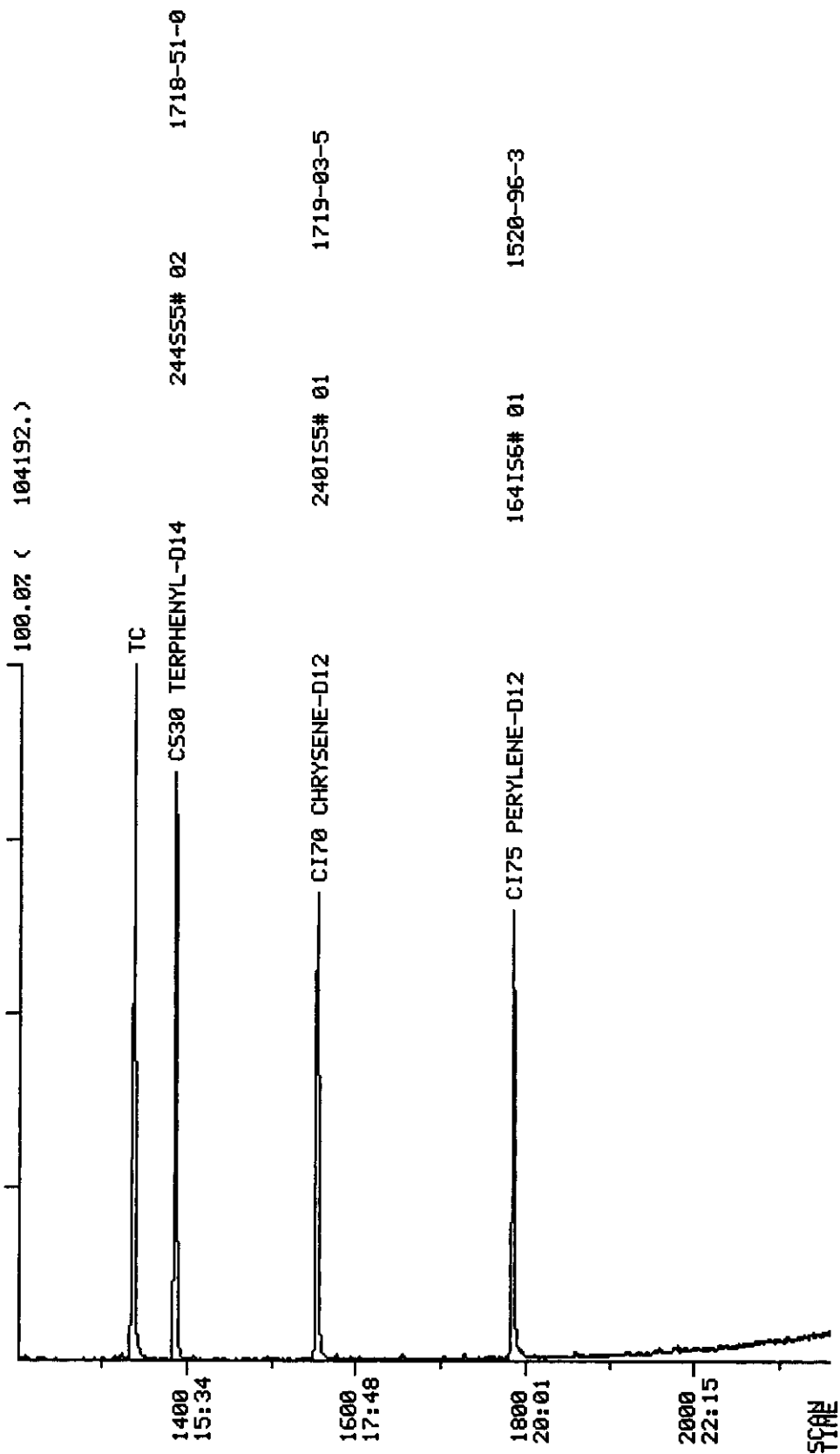
CALI: 300681BFMS1 #3 INST. ID: F16

SAMPLE: DCS-A 01AUG98-16A 15A/1ML

CONDS.: UG/ML *100%/100% *(NA/NA >15A NA M



DATA FROM FILE: 300681BFMSI SCANS 1204 TO 2158 ACQUIRED: 09/02/98 18:59:00
 CALI: 300681BFMSI #3
 SAMPLE: DCS-A 01AUG98-16A 15A/1ML INST. ID: F16
 CONDS.: UG/ML *100Z/100Z *(NA/NA >15A NA M



STANDARD USED FOR THIS REPORT IS ST16980902

REPORT PRINTED: 9/03/98 12:39:19

ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980902A

QUANTERRA QUANTITATION SUMMARY

File: 300681BFMSI

Sample: DCS-A 01AUG98-16A 1SA/1ML

INST. ID: F16

Analyst: DAT

Instrument Id: F16

Analyzed: 09/02/98 18:59

Compounds with amounts less than 0.20 reported as NOT FOUND

Library								Units: UG/ML	
No	Entry	Name	Mass	Meth	Scan	Ref	Area	RRF (L)	Amount
1	S1#	1 CI30 1,4-DICHLOROBENZENE	152	A	BB	341 1	24660.	1.000	40.000
2	S2#	1 CI40 NAPHTHALENE-D8	136	A	BB	530 2	87031.	1.000	40.000
3	S3#	1 CI50 ACENAPHTHENE-D10	164	A	BB	828 3	48399.	1.000	40.000
4	S4#	1 CI60 PHENANTHRENE-D10	188	A	BB	1087 4	83148.	1.000	40.000
5	S5#	1 CI70 CHRYSENE-D12	240	A	BB	1552 5	75605.	1.000	40.000
6	S6#	1 CI75 PERYLENE-D12	264	A	BB	1784 6	66009.	1.000	40.000
7	S2#	2 CS20 NITROBENZENE-D5	82	A	BB	422 2	31682.	0.470	31.011
8	S3#	3 CS25 2-FLUOROBIPHENYL	172	A	BB	723 3	53531.	1.234	35.844
9	S5#	2 CS30 TERPHENYL-D14	244	A	BB	1384 5	77124.	0.995	41.000
10	S1#	3 CS45 PHENOL-D5	99	A	BB	308 1	33750.	2.025	27.028
11	S1#	2 CS50 2-FLUOROPHENOL	112	A	BB	197 1	31682.	1.368	37.559
12	S3#	2 CS55 2,4,6-TRIBROMOPHENO	330	A	BB	969 3	25098.	0.236	88.020
13	S1#	5 CS70 2-CHLOROPHENOL-D4	132			1 NOT FOUND			
14	S1#	6 CS75 1,2-DICHLOROBENZENE-D4	152			1 NOT FOUND			
15	S1#105	C315 PHENOL	94	A	BB	310 1	32941.	1.968	27.153
16	S1#115	C330 2-CHLOROPHENOL	128	A	BB	314 1	59889.	1.497	64.898
17	S1#130	C340 1,4-DICHLOROBENZENE	146	A	BB	343 1	27254.	1.617	27.331
18	S1#190	C370 N-NITROSO-DI-N-PROP	70	A	BB	408 1	19856.	0.906	35.554
19	S2#	55 C445 1,2,4-TRICHLOROBENZ	180	A	BB	524 2	19952.	0.331	27.711
20	S2#130	C465 4-CHLORO-3-METHYLPH	107	A	BB	650 2	50638.	0.338	68.909
21	S3#	80 C550 ACENAPHTHENE	153	A	BB	834 3	56003.	1.159	39.948
22	S3#	95 C560 4-NITROPHENOL	109	A	BB	893 3	4286.	0.173	20.517
23	S3#105	C570 2,4-DINITROTOLUENE	165	A	BB	879 3	22297.	0.397	46.389
24	S4#	50 C635 PENTACHLOROPHENOL	266	A	BB	1062 4	24829.	0.155	77.041
25	S5#	15 C715 PYRENE	202	A	BB	1335 5	121134.	1.323	48.457

1743

QUANTERRA Internal Standard Check

Standard Filename: ST16980902

Analyzed: 09/02/98 14:53

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980902	23319.		3.78	79260.		5.91	43605.		9.22
Upper Limit	46638.=+200		4.28	158519.=+200		6.41	87211.=+200		9.72
Lower Limit	11659.=+ 50		3.28	39630.=+ 50		5.41	21803.=+ 50		8.72
Filename									
1 300681BFMSI	24660.= 105		3.79	87031.= 109		5.90	48399.= 110		9.21

IS# 1 = CI30 1,4-DICHLOROBENZENE-D4

IS# 2 = CI40 NAPHTHALENE-D8

IS# 3 = CI50 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980902	76218.		12.09	51424.		17.27	44306.		19.84
Upper Limit	152436.=+200		12.59	102848.=+200		17.77	88612.=+200		20.34
Lower Limit	38109.=+ 50		11.59	25712.=+ 50		16.77	22153.=+ 50		19.34
Filename									
1 300681BFMSI	83148.= 109		12.09	75605.= 147		17.26	66009.= 148		19.84

IS# 4 = CI60 PHENANTHRENE-D10

IS# 5 = CI70 CHRYSENE-D12

IS# 6 = CI75 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681BFDSI
Std Id: ST16980902

Sample: DCS-AD 01AUG98-16A 1SA/1ML
Client: PACIFI
Analyst: DAT Instrument ID: F16
Quan List Threshold: 0.95

INST. ID: F16
Date Analyzed: 09/02/98 19:29
Run Factor: 1.00
Surrogate Vol.: 1.00

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	
	Spiked	Measured	Measured	QC limits
CS20 NITROBENZENE-D5	50.00	30.20	60.4	45 107
CS25 2-FLUOROBIPHENY	50.00	33.80	67.6	62 110
CS30 TERPHENYL-D14	50.00	36.50	73.0	58 135
CS45 PHENOL-D5	100.0	26.00	26.0	* 43 130
CS50 2-FLUOROPHENOL	100.0	38.10	38.1	36 111
CS55 2,4,6-TRIBROMOP	100.0	74.60	74.6	58 131

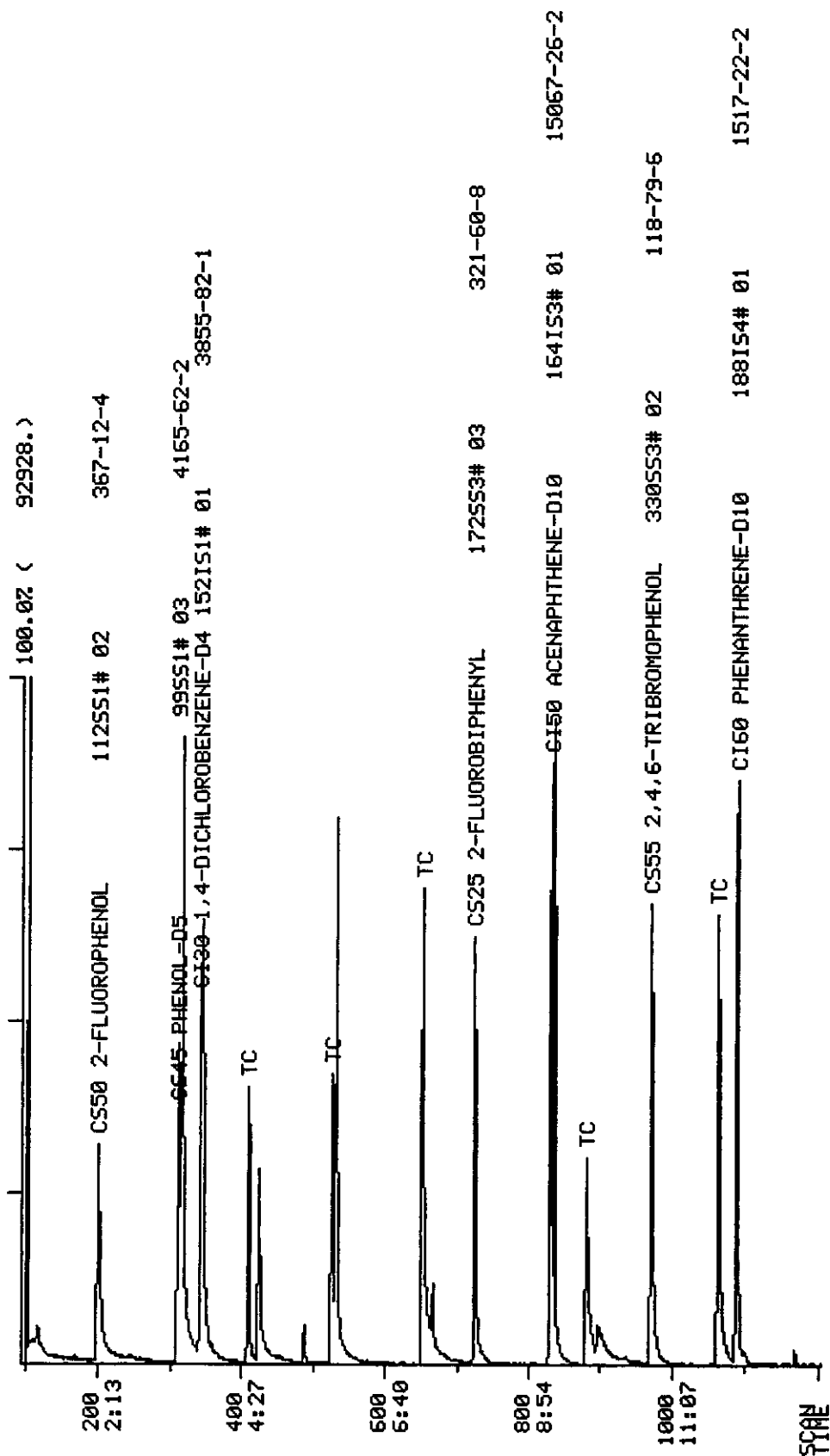
confirms

Target Compounds: MS

Parameter	Scan	Result	Units	Reporting
				Limit (J values)
CS70 2-CHLOROPHENOL-D4		ND	UG/A	10.0
CS75 1,2-DICHLOROBNZN-D4		ND	UG/A	10.0
C315 PHENOL	309	26.	UG/A	10.0
C330 2-CHLOROPHENOL	314	65.	UG/A	10.0
C340 1,4-DICHLOROBENZENE	343	29.	UG/A	10.0
C370 N-NITROSO-DI-N-PROPYLAM	408	32.	UG/A	10.0
C445 1,2,4-TRICHLOROBENZENE	524	30.	UG/A	10.0
C465 4-CHLORO-3-METHYLPHENO	650	62.	UG/A	10.0
C550 ACENAPHTHENE	834	38.	UG/A	10.0
C560 4-NITROPHENOL	895	16.	UG/A	50.0 J
C570 2,4-DINITROTOLUENE	879	39.	UG/A	10.0
C635 PENTACHLOROPHENOL	1062	64.	UG/A	50.0
C715 PYRENE	1335	44.	UG/A	10.0

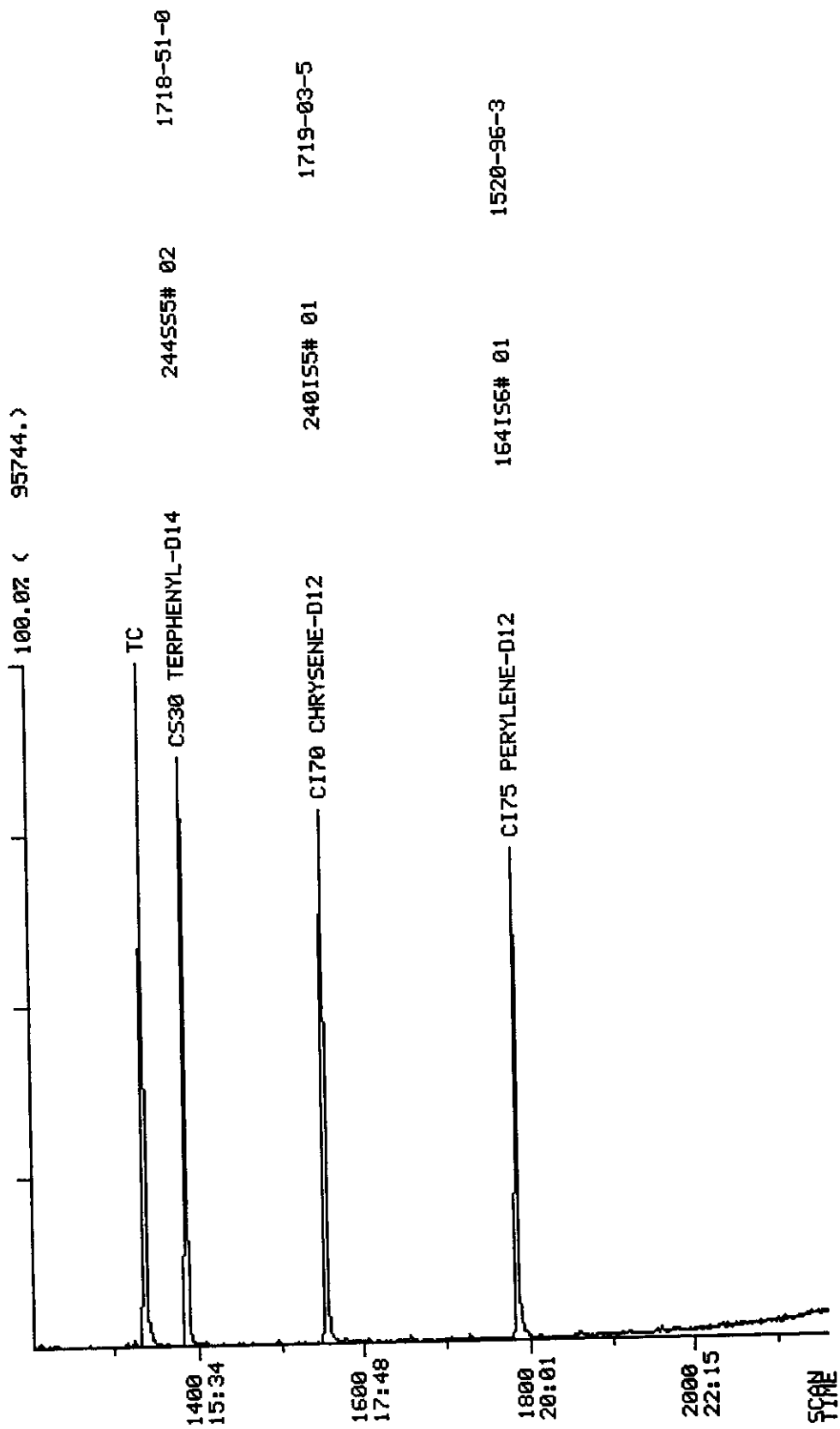
Reviewed by: *[Signature]*

DATA FROM FILE: 300681BFDSI SCANS 94 TO 1204 ACQUIRED: 09/02/98 19:29:00
 SAMPLE: DCS-AD 01AUG98-16A 15A/1ML CALI: 300681BFDSI #3
 COND.: UG/ML *100%/100% *(NA/NA) >15A NA M INST. ID: F16



DATA FROM FILE: 300681BFD51 SCANS 1204 TO 2158 ACQUIRED: 09/02/98 19:29:00

CALI: 300681BFD51 #3
SAMPLE: DCS-AD 01AUG98-16A 15A/1ML INST. ID: F16
CONDS.: UG/ML *1ML *100Z/100Z *(NA/NA >/15A NA M



1747

ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980902A

QUANTERRA QUANTITATION SUMMARY

File: 300681BFDSI

Sample: DCS-AD 01AUG98-16A 1SA/1ML

INST. ID: F16

Analyst: DAT

Instrument Id: F16

Analyzed: 09/02/98 19:29

Compounds with amounts less than 0.20 reported as NOT FOUND

No	Entry	Library Name	Mass	Meth	Scan	Ref	Area	RRF(L)	Units: UG/ML Amount
1	S1#	1 CI30 1,4-DICHLOROBENZENE	152	A	BB	340	1	27115.	1.000 40.000
2	S2#	1 CI40 NAPHTHALENE-D8	136	A	BB	530	2	91722.	1.000 40.000
3	S3#	1 CI50 ACENAPHTHENE-D10	164	A	BB	828	3	52118.	1.000 40.000
4	S4#	1 CI60 PHENANTHRENE-D10	188	A	BB	1087	4	89087.	1.000 40.000
5	S5#	1 CI70 CHRYSENE-D12	240	A	BB	1552	5	79298.	1.000 40.000
6	S6#	1 CI75 PERYLENE-D12	264	A	BB	1784	6	69584.	1.000 40.000
7	S2#	2 CS20 NITROBENZENE-D5	82	A	BB	422	2	32551.	0.470 30.232
8	S3#	3 CS25 2-FLUOROBIPHENYL	172	A	BB	723	3	54422.	1.234 33.840
9	S5#	2 CS30 TERPHENYL-D14	244	A	BB	1384	5	72015.	0.995 36.501
10	S1#	3 CS45 PHENOL-D5	99	A	BB	308	1	35704.	2.025 26.004
11	S1#	2 CS50 2-FLUOROPHENOL	112	A	BB	197	1	35344.	1.368 38.106
12	S3#	2 CS55 2,4,6-TRIBROMOPHENO	330	A	BB	969	3	22909.	0.236 74.610
13	S1#	5 CS70 2-CHLOROPHENOL-D4	132				1	NOT FOUND	
14	S1#	6 CS75 1,2-DICHLOROBENZENE-D4	152				1	NOT FOUND	
15	S1#105	C315 PHENOL	94	A	BB	309	1	34746.	1.968 26.047
16	S1#115	C330 2-CHLOROPHENOL	128	A	BB	314	1	65937.	1.497 64.982
17	S1#130	C340 1,4-DICHLOROBENZENE	146	A	BB	343	1	32129.	1.617 29.302
18	S1#190	C370 N-NITROSO-DI-N-PROP	70	A	BB	408	1	19533.	0.906 31.809
19	S2#	55 C445 1,2,4-TRICHLOROBENZ	180	A	BB	524	2	22687.	0.331 29.897
20	S2#130	C465 4-CHLORO-3-METHYLPH	107	A	BB	650	2	48270.	0.338 62.327
21	S3#	80 C550 ACENAPHTHENE	153	A	BB	834	3	56768.	1.159 37.604
22	S3#	95 C560 4-NITROPHENOL	109	A	BB	895	3	3696.	0.173 16.429
23	S3#105	C570 2,4-DINITROTOLUENE	165	A	BB	879	3	20426.	0.397 39.464
24	S4#	50 C635 PENTACHLOROPHENOL	266	A	BB	1062	4	22149.	0.155 64.144
25	S5#	15 C715 PYRENE	202	A	BB	1335	5	114565.	1.323 43.694

QUANTERRA Internal Standard Check

Standard Filename: ST16980902

Analyzed: 09/02/98 14:53

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980902	23319.		3.78	79260.		5.91	43605.		9.22
Upper Limit	46638.=+200		4.28	158519.=+200		6.41	87211.=+200		9.72
Lower Limit	11659.=+ 50		3.28	39630.=+ 50		5.41	21803.=+ 50		8.72
Filename									
1 300681BFDSI	27115.= 116		3.78	91722.= 115		5.90	52118.= 119		9.21

IS# 1 = CI30 1,4-DICHLOROBENZENE-D4

IS# 2 = CI40 NAPHTHALENE-D8

IS# 3 = CI50 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980902	76218.		12.09	51424.		17.27	44306.		19.84
Upper Limit	152436.=+200		12.59	102848.=+200		17.77	88612.=+200		20.34
Lower Limit	38109.=+ 50		11.59	25712.=+ 50		16.77	22153.=+ 50		19.34
Filename									
1 300681BFDSI	89087.= 116		12.09	79298.= 154		17.26	69584.= 157		19.84

IS# 4 = CI60 PHENANTHRENE-D10

IS# 5 = CI70 CHRYSENE-D12

IS# 6 = CI75 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBFMS

Std Id: ST16980831

Sample: DCS-A 01AUG98-16A 1SA/1ML

INST. ID: F16

Client: PACIFI

Date Analyzed: 08/31/98 17:01

Analyst: DAT Instrument ID: F16

Run Factor: 1.00

Quan List Threshold: 0.95

Surrogate Vol.: 1.00

Surrogate Spike Recoveries

8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	
	Spiked	Measured	Measured	QC Limits
CS20 NITROBENZENE-D5	50.00	31.30	62.6	45 107
CS25 2-FLUOROBIPHENY	50.00	35.00	70.0	62 110
CS30 TERPHENYL-D14	50.00	41.20	82.4	58 135
CS45 PHENOL-D5	100.0	28.00	28.0	* 43 130
CS50 2-FLUOROPHENOL	100.0	38.90	38.9	36 111
CS55 2,4,6-TRIBROMOP	100.0	83.10	83.1	58 131

Target Compounds: MS

Parameter	Scan	Result	Units	Reporting
				Limit (J values)
CS70 2-CHLOROPHENOL-D4		ND	UG/A	10.0
CS75 1,2-DICHLOROBENZ-D4	340	43.	UG/A	10.0
C315 PHENOL	308	29.	UG/A	10.0
C330 2-CHLOROPHENOL	313	66.	UG/A	10.0
C340 1,4-DICHLOROBENZENE	342	28.	UG/A	10.0
C370 N-NITROSO-DI-N-PROPYLAM	408	37.	UG/A	10.0
C445 1,2,4-TRICHLOROBENZENE	524	28.	UG/A	10.0
C465 4-CHLORO-3-METHYLPHENO	649	71.	UG/A	10.0
C550 ACENAPHTHENE	833	40.	UG/A	10.0
C560 4-NITROPHENOL	887	27.	UG/A	50.0 J
C570 2,4-DINITROTOLUENE	878	44.	UG/A	10.0
C635 PENTACHLOROPHENOL	1061	89.	UG/A	50.0
C715 PYRENE	1334	49.	UG/A	10.0

Reviewed by:

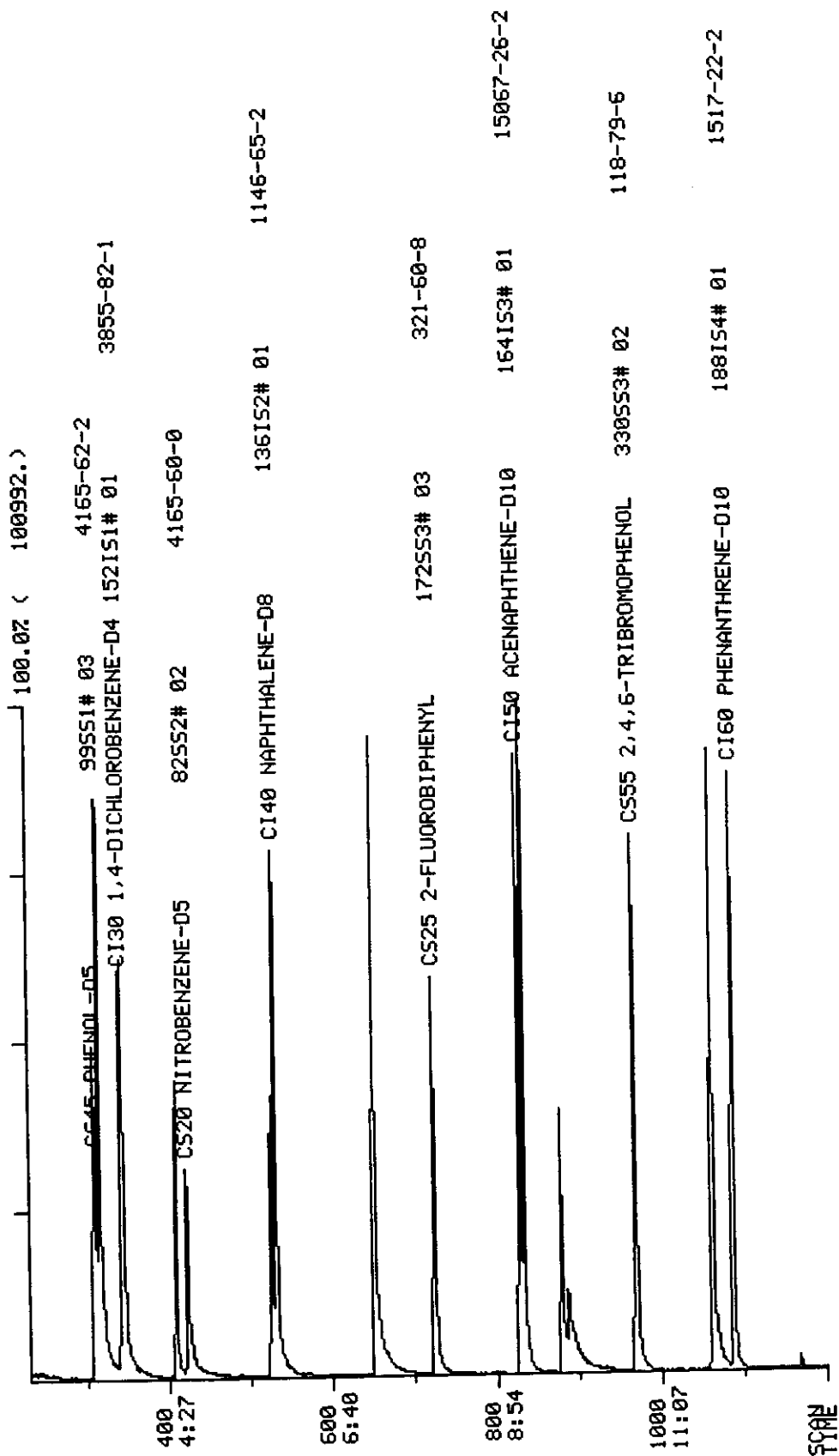
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10/19/98

1750

DATA FROM FILE: 300681MBFMS SCANS 230 TO 1200 ACQUIRED: 08/31/98 17:01:00

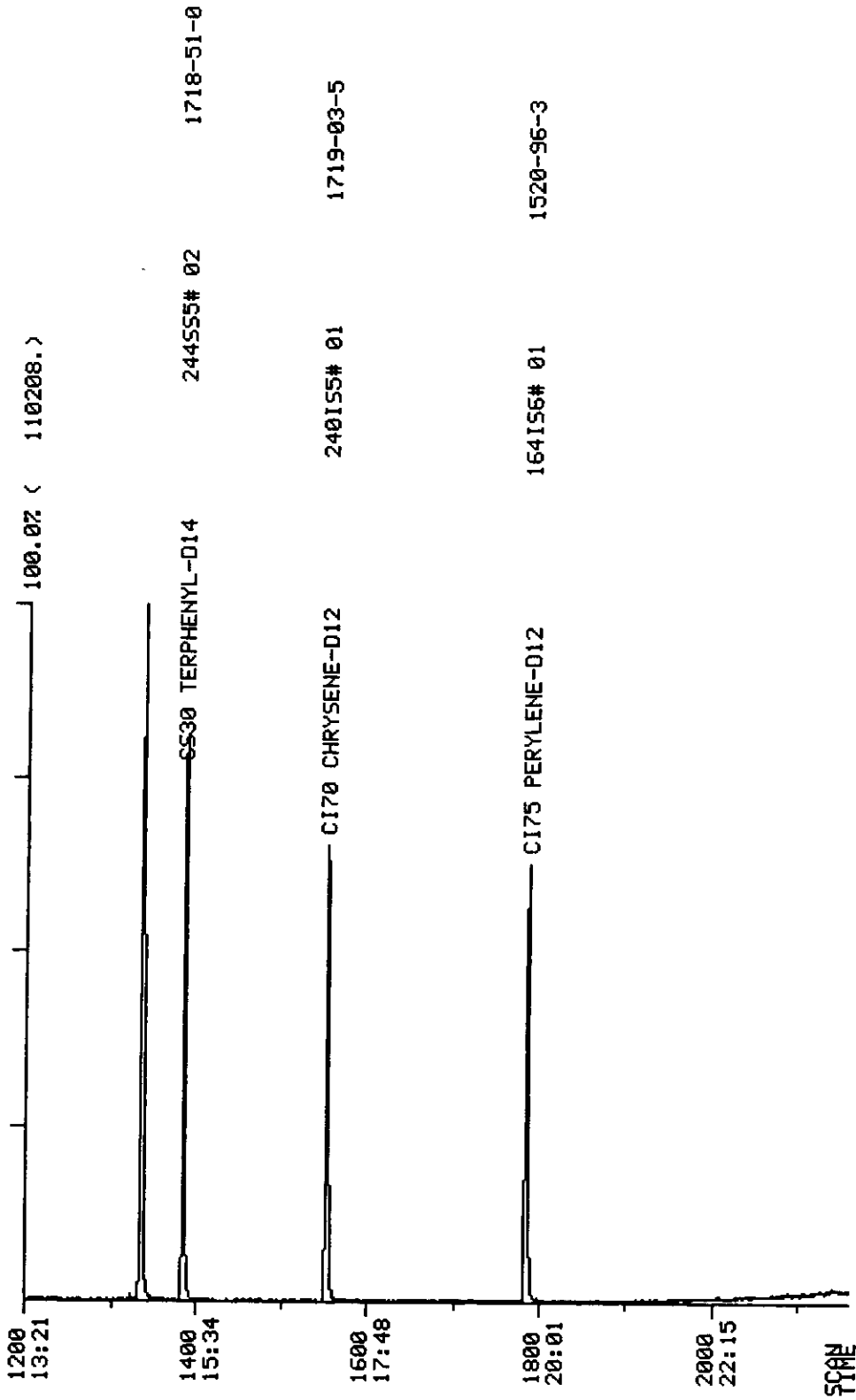
CAL1: 300681MBFMS #3
SAMPLE: DCS-A 01AUG98-16A 15A/1ML INST. ID: F16

CONDS.: UG/ML *100%/100% *(NA/NA >)/15A NA M



1701

DATA FROM FILE: 300681MBFMS SCANS 1200 TO 2158 ACQUIRED: 08/31/98 17:01:00
 SAMPLE: DCS-A 01AUG98-16A 15A/1ML CALI: 300681MBFMS #3
 CONDS.: UG/ML *100%/100% *(NA/NA) /15A NA M INST. ID: F16



1752

ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 300681MBFMS

Sample: DCS-A 01AUG98-16A 1SA/1ML INST. ID: F16
Analyst: DAT Instrument Id: F16 Analyzed: 08/31/98 17:01

Compounds with amounts less than 0.20 reported as NOT FOUND

Library							Units: UG/ML		
No	Entry	Name	Mass	Meth	Scan	Ref	Area	RRF(L)	Amount
1	S1#	1 C130 1,4-DICHLOROBENZENE	152	A	BB	340	1	28516.	1.000 40.000
2	S2#	1 C140 NAPHTHALENE-D8	136	A	BB	529	2	101945.	1.000 40.000
3	S3#	1 C150 ACENAPHTHENE-D10	164	A	BB	828	3	56455.	1.000 40.000
4	S4#	1 C160 PHENANTHRENE-D10	188	A	BB	1086	4	91166.	1.000 40.000
5	S5#	1 C170 CHRYSENE-D12	240	A	BB	1551	5	75878.	1.000 40.000
6	S6#	1 C175 PERYLENE-D12	264	A	BV	1783	6	63304.	1.000 40.000
7	S2#	2 CS20 NITROBENZENE-D5	82	A	BB	421	2	37439.	0.470 31.284
8	S3#	3 CS25 2-FLUOROBIPHENYL	172	A	BB	722	3	60974.	1.234 35.001
9	S5#	2 CS30 TERPHENYL-D14	244	A	BB	1383	5	77780.	0.995 41.200
10	S1#	3 CS45 PHENOL-D5	99	A	BB	306	1	40389.	2.025 27.971
11	S1#	2 CS50 2-FLUOROPHENOL	112	A	BB	196	1	37991.	1.368 38.949
12	S3#	2 CS55 2,4,6-TRIBROMOPHENO	330	A	BB	968	3	27642.	0.236 83.107
13	S1#	5 CS70 2-CHLOROPHENOL-D4	132			1	NOT FOUND		
14	S1#	6 CS75 1,2-DICHLOROBENZENE-D4	152	A	BB	340	1	28516.	0.920 43.476
15	S1#105	C315 PHENOL	94	A	BB	308	1	40013.	1.968 28.522
16	S1#115	C330 2-CHLOROPHENOL	128	A	BB	313	1	70308.	1.497 65.887
17	S1#130	C340 1,4-DICHLOROBENZENE	146	A	BB	342	1	31738.	1.617 27.524
18	S1#190	C370 N-NITROSO-DI-N-PROP	70	A	BB	408	1	23823.	0.906 36.890
19	S2#	55 C445 1,2,4-TRICHLOROBENZ	180	A	BB	524	2	23662.	0.331 28.055
20	S2#130	C465 4-CHLORO-3-METHYLPH	107	A	BB	649	2	60821.	0.338 70.658
21	S3#	80 C550 ACENAPHTHENE	153	A	BB	833	3	64768.	1.159 39.607
22	S3#	95 C560 4-NITROPHENOL	109	A	BB	887	3	6606.	0.173 27.110
23	S3#105	C570 2,4-DINITROTOLUENE	165	A	BB	878	3	24726.	0.397 44.102
24	S4#	50 C635 PENTACHLOROPHENOL	266	A	BB	1061	4	31357.	0.155 88.740
25	S5#	15 C715 PYRENE	202	A	BB	1334	5	123841.	1.323 49.361

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297.=+200		4.28	200864.=+200		6.40	108695.=+200		9.71
Lower Limit	14324.=+ 50		3.28	50216.=+ 50		5.40	27174.=+ 50		8.71
=====									
Filename									
=====									
1 300681MBFMS	28516.= 99		3.78	101945.= 101		5.88	56455.= 103		9.21

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039.=+200		12.58	124578.=+200		17.76	101500.=+200		20.33
Lower Limit	49260.=+ 50		11.58	31145.=+ 50		16.76	25375.=+ 50		19.33
=====									
Filename									
=====									
1 300681MBFMS	91166.= 92		12.08	75878.= 121		17.25	63304.= 124		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

QUANTERRA GC/MS
Target Compound Data Summary Sheet

Data File: 300681MBFDS
Std Id: ST16980831

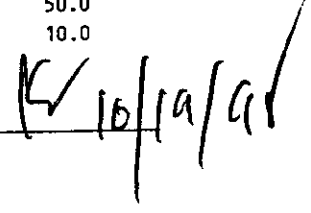
Sample: DCS-AD 01AUG98-16A 1SA/1ML INST. ID: F16
Client: PACIFI Date Analyzed: 08/31/98 17:30
Analyst: DAT Instrument ID: F16 Run Factor: 1.00
Quan List Threshold: 0.95 Surrogate Vol.: 1.00

Surrogate Spike Recoveries
8270-G, LIMS 10/10/96

Surrogate	Surrogate Amount (ug)		% Recovery	
	Spiked	Measured	Measured	QC limits
CS20 NITROBENZENE-D5	50.00	32.30	64.6	45 107
CS25 2-FLUOROBIPHENY	50.00	33.90	67.8	62 110
CS30 TERPHENYL-D14	50.00	37.80	75.6	58 135
CS45 PHENOL-D5	100.0	22.40	22.4	* 43 130
CS50 2-FLUOROPHENOL	100.0	39.90	39.9	36 111
CS55 2,4,6-TRIBROMOP	100.0	72.90	72.9	58 131

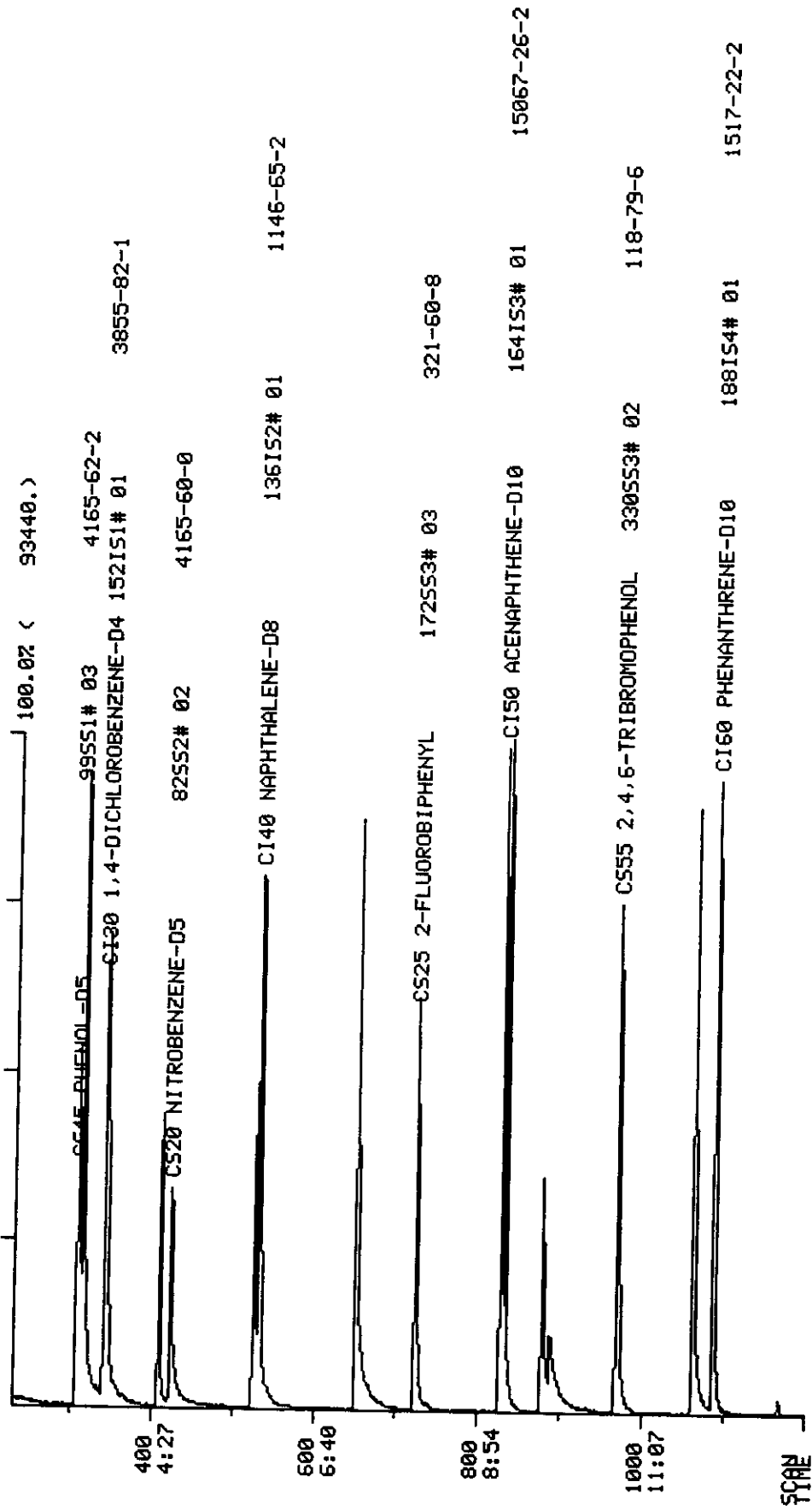
Target Compounds: MS

Parameter	Scan	Result	Units	Reporting
				Limit (J values)
CS70 2-CHLOROPHENOL-D4		ND	UG/A	10.0
CS75 1,2-DICHLOROBENZ-N-D4		ND	UG/A	10.0
C315 PHENOL	308	29.	UG/A	10.0
C330 2-CHLOROPHENOL	313	67.	UG/A	10.0
C340 1,4-DICHLOROBENZENE	342	30.	UG/A	10.0
C370 N-NITROSO-DI-N-PROPYLAM	408	33.	UG/A	10.0
C445 1,2,4-TRICHLOROBENZENE	524	30.	UG/A	10.0
C465 4-CHLORO-3-METHYLPHENO	649	66.	UG/A	10.0
C550 ACENAPHTHENE	833	38.	UG/A	10.0
C560 4-NITROPHENOL	888	24.	UG/A	50.0 J
C570 2,4-DINITROTOLUENE	878	40.	UG/A	10.0
C635 PENTACHLOROPHENOL	1061	76.	UG/A	50.0
C715 PYRENE	1334	45.	UG/A	10.0

Reviewed by: 

1755

DATA FROM FILE: 300681MBFDS SCANS 230 TO 1200 ACQUIRED: 08/31/98 17:30:00
 SAMPLE: DCS-AD 01AUG98-16A 15A/1ML CALI: 300681MBFDS #3
 CONDS.: UG/ML *100%/100% *(NA/NA) /15A NA M INST. ID: F16



17 00

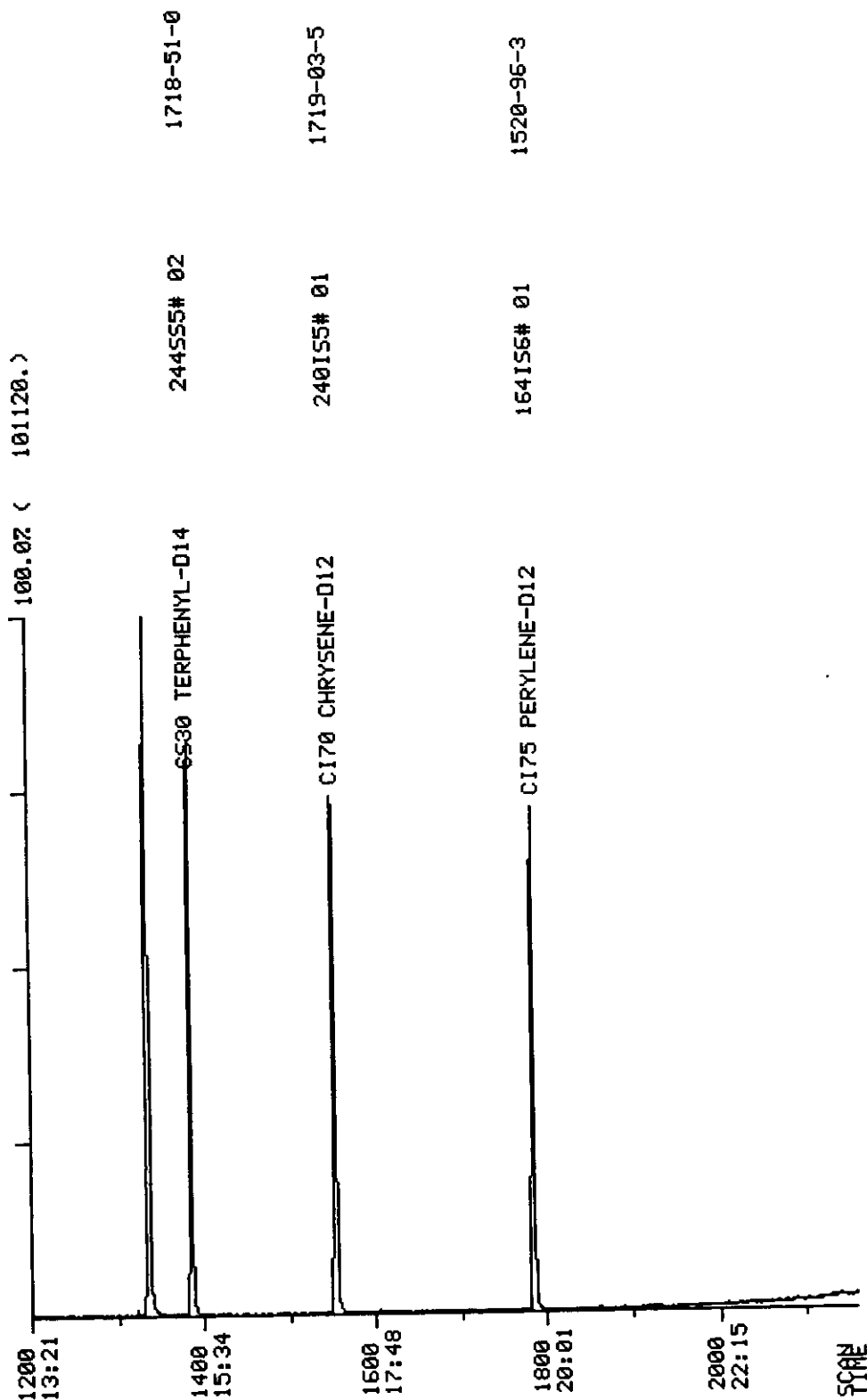
DATA FROM FILE: 300681MBFDS SCANS 1200 TO 2158 ACQUIRED: 08/31/98 17:30:00

CALI: 300681MBFDS #3

INST. ID: F16

SAMPLE: DCS-AD 01AUG98-16A 15A/1ML

CONDS.: UG/ML *1ML *100%/100% *(NA/NA) /15A NA M



1757

ADDITIONAL STANDARD USED FOR THIS REPORT IS: ST16980831A

QUANTERRA QUANTITATION SUMMARY

File: 300681MBFDS

Sample: DCS-AD 01AUG98-16A 1SA/1ML INST. ID: F16
Analyst: DAT Instrument Id: F16 Analyzed: 08/31/98 17:30

Compounds with amounts less than 0.20 reported as NOT FOUND

Library		Units: UG/ML							
No	Entry	Name	Mass	Meth	Scan	Ref	Area	RRF(L)	Amount
1	S1#	1 C130 1,4-DICHLOROBENZENE	152	A	BB	340	1	28626. 1.000	40.000
2	S2#	1 C140 NAPHTHALENE-D8	136	A	BB	529	2	99229. 1.000	40.000
3	S3#	1 C150 ACENAPHTHENE-D10	164	A	BB	828	3	54918. 1.000	40.000
4	S4#	1 C160 PHENANTHRENE-D10	188	A	BB	1086	4	93048. 1.000	40.000
5	S5#	1 C170 CHRYSENE-D12	240	A	BB	1551	5	77501. 1.000	40.000
6	S6#	1 C175 PERYLENE-D12	264	A	BV	1783	6	65820. 1.000	40.000
7	S2#	2 CS20 NITROBENZENE-D5	82	A	BB	421	2	37607. 0.470	32.285
8	S3#	3 CS25 2-FLUOROBIPHENYL	172	A	BB	722	3	57505. 1.234	33.934
9	S5#	2 CS30 TERPHENYL-D14	244	A	BB	1383	5	72798. 0.995	37.753
10	S1#	3 CS45 PHENOL-D5	99	A	BV	306	1	32420. 2.025	22.365
11	S1#	2 CS50 2-FLUOROPHENOL	112	A	BB	196	1	39025. 1.368	39.855
12	S3#	2 CS55 2,4,6-TRIBROMOPHENO	330	A	BV	968	3	23589. 0.236	72.907
13	S1#	5 CS70 2-CHLOROPHENOL-D4	132				1	NOT FOUND	
14	S1#	6 CS75 1,2-DICHLOROBENZENE-D4	152				1	NOT FOUND	
15	S1#105	C315 PHENOL	94	A	BB	308	1	40618. 1.968	28.842
16	S1#115	C330 2-CHLOROPHENOL	128	A	BB	313	1	71608. 1.497	66.845
17	S1#130	C340 1,4-DICHLOROBENZENE	146	A	BB	342	1	34461. 1.617	29.770
18	S1#190	C370 N-NITROSO-DI-N-PROP	70	A	BB	408	1	21467. 0.906	33.113
19	S2#	55 C445 1,2,4-TRICHLOROBENZ	180	A	BB	524	2	24942. 0.331	30.382
20	S2#130	C465 4-CHLORO-3-METHYLPH	107	A	BB	649	2	55273. 0.338	65.970
21	S3#	80 C550 ACENAPHTHENE	153	A	BB	833	3	60897. 1.159	38.282
22	S3#	95 C560 4-NITROPHENOL	109	A	BB	888	3	5735. 0.173	24.196
23	S3#105	C570 2,4-DINITROTOLUENE	165	A	BB	878	3	21544. 0.397	39.503
24	S4#	50 C635 PENTACHLOROPHENOL	266	A	BB	1061	4	27378. 0.155	75.913
25	S5#	15 C715 PYRENE	202	A	BB	1334	5	114585. 1.323	44.715

QUANTERRA Internal Standard Check

Standard Filename: ST16980831

Analyzed: 08/31/98 12:31

Standard	IS# 1			IS# 2			IS# 3		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	28649.		3.78	100432.		5.90	54347.		9.21
Upper Limit	57297. =+200		4.28	200864. =+200		6.40	108695. =+200		9.71
Lower Limit	14324. =+ 50		3.28	50216. =+ 50		5.40	27174. =+ 50		8.71
Filename									
1 300681MBFDS	28626. = 99		3.78	99229. = 98		5.88	54918. = 101		9.21

IS# 1 = C130 1,4-DICHLOROBENZENE-D4

IS# 2 = C140 NAPHTHALENE-D8

IS# 3 = C150 ACENAPHTHENE-D10

* - indicates an I.S. is outside QC limit(s)

Standard	IS# 4			IS# 5			IS# 6		
	Area	%	RT	Area	%	RT	Area	%	RT
ST16980831	98520.		12.08	62289.		17.26	50750.		19.83
Upper Limit	197039. =+200		12.58	124578. =+200		17.76	101500. =+200		20.33
Lower Limit	49260. =+ 50		11.58	31145. =+ 50		16.76	25375. =+ 50		19.33
Filename									
1 300681MBFDS	93048. = 94		12.08	77501. = 124		17.25	65820. = 129		19.83

IS# 4 = C160 PHENANTHRENE-D10

IS# 5 = C170 CHRYSENE-D12

IS# 6 = C175 PERYLENE-D12

* - indicates an I.S. is outside QC limit(s)

Sample Extraction/Preparation Log Copies

QUANTERRA-CALLAB LABORATORY
Analytical Bench Sheet

Project Number: 300681

Date: 31 JUL 98

Page 1 of 1

Test Code: P-8270-S

Test Description: Prep - Semivolatile Organics by GC/MS

Turnaround Status: NORMAL Sample Matrix: AIRTRAIN Date Assigned: 7/31 Prep Completion Due: _____

SOP-Section/Page (Revision): SAC-OP-0008

Extractions: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☒ Soxhlet ☐ KD

☐ Roto Vap

☐ Shaker

☐ Other _____

Samp ID	Holding Time	Sample Size	Spiked & in Solvent Date/Initials	1st pH To:	2nd pH To:	Extraction Sonic/Shak Date/Initials	KD/N2 Reduc. ABN	GPC	KD/N2 Reduc.	Screen Date/Initials	Final Concentn Date/Initials	(X)
0001SA	08 AUG 98	AIR TRAIN				ENT 7/31/98	ENT 8/4/98	NA	ENT 8/5/98	GB 8/5/98	1/3 SA 100ml	300X
0002SA	08 AUG 98	(XAD/PCT)										↓
0003SA	08 AUG 98										1/3 SA ML	3X
0004SA	08 AUG 98											↓
0005SA	09 AUG 98											↓
0006SA	10 AUG 98											↓
0007SA	10 AUG 98										1/3 SA 100ml	300X
0008SA	09 AUG 98										1/3 SA ML	3X
0009SA	08 AUG 98											↓
0010SA	08 AUG 98										1/3 SA 100ml	300X
0011SA	11 AUG 98										1/3 SA 100ml	↓
MB-A	NA	↓								NA	1/3 SA ML	3X
DCS-A	↓	NA										↓
DCS-AD	↓	↓										↓

Project Due: 19 AUG 98

DCS With Project: 300681

DCS Code: 31 JUL 98 - 16A

LCS With Project: NA

LCS Code: NA

Method Blank With Project: 300681

Extraction Includes Project(s): 300681

Notes/Comments:

** PLEASE PUT COMMENTS ON ANOMALY SHEET **

MSQC with Project: NA MSQC Code: NA

1702

Date To Instruments: 8/5/98

By: ENT

Peer Approval By: _____

QUANTERRA-CALLAB LABORATORY
Quality Assurance Sheet

Project #: 300681 Test: P-8270-S

Quality Assurance/Quality Control:

Sample ID: ALL Spiking Standard Name: ADN SW846 SURROGATE
Spike Code ID: AT031698A Volume: 1500 µL Conc: 100-200 ppm
Spiked By: JWT Witness: GBL

Sample ID: DCS-A/AD Spiking Standard Name: ADN SW846 SPIKE
Spike Code ID: AT040891A Volume: 1500 µL Conc: 100-200 ppm
Spiked By: JWT Witness: GBL

Sample ID: _____ Spiking Standard Name: _____
Spike Code ID: _____ Volume: _____ Conc: _____
Spiked By: _____ Witness: _____

Sample ID: _____ Spiking Standard Name: _____
Spike Code ID: _____ Volume: _____ Conc: _____
Spiked By: _____ Witness: _____

Solvent: Manufacturer And Lot Number:

Extracting Solvent: DCM (BAK) M17327

Solvent Keeper: _____

Transfer Solvent: _____

Derivatizing Reagent: _____

Final Solvent: _____

Other: _____

Was an aliquot taken? (Y) / N

If yes, how much was aliquoted? 5 mL / 15 mL

What was the sample concentration before aliquot? SA / 15 mL

Why was the aliquot taken? SPLIT w/HR-PAH, ARCHIVE

1702

QUANTERRA-CALLAB LABORATORY
Anomaly Report Form

Project #: 300681 Test: P-8270-S

Anomalies:

Sample(s) Affected:

- ☐ Sample broken during shipping. _____
- ☐ Limited sample volume. _____
- ☐ Matrix required a subsample to facilitate extraction. _____
- ☐ pH of sample required excess acid/base (please circle). _____
- ☐ Solvent and sample were miscible. _____
- ☐ Emulsion problems. _____
- ☐ Emulsion problem required centrifuging. _____
- ☐ Sample lost during preparation.
Re-extraction performed? Yes/No _____
- ☐ Concentration volume went lower than specified in the SOP. _____
- ☐ Concentration time longer than normal. _____
- ☐ Extraction solvent saturated with organic material, therefore sample volume was not concentrated but adjusted based on the screening. _____
- ☐ Final concentration greater than specified in the SOP due to the screening results. _____
- ☐ Precipitate observed in the extract. _____
- ☒ Other, please comment below. 1, 2, 7, 10, 11

Comments:

1, 2, 7, 10 + 11 CONTAINED A LOT OF OIL - FINAL CONC BASED ON RESULTS OF SCREEN

Submitted By: DNT

Date: 8/5/98

1783

QUANTERRA-CALLAB LABORATORY
Prep (Extraction) Check List

Project #: 300681 Test: P-8270-S

Chemist: DJT Date: 8/5/98

Reviewer: _____ Date: _____

Number of samples: 11 Number of extracts: 14

Benchsheet:

SOP section and page number filled out properly.
 Each step of extraction procedure initial'ed and dated.
 Anomalies or deviations from SOP documented.
 pH adjustments noted.
 Solvent manufacturer and lot number completed.
 Volumes and weights of samples to two sig. figs.

Initiated		Reviewed	
Y ☒	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐

QA/QC:

DCS/MS forms filled out properly.
 Spike information correct on bench sheet.
 Spike witness?
 If not spiked per SOP, were spike amounts verified?

Initiated		Reviewed	
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐

LIMS:

Extraction date (complete date) correct.
 QC lot number present and correct.
 QC Run number present and correct.
 Prep released (date extract goes to Inst.).

Initiated		Reviewed	
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐

Extracts:

Number of extracts agree with benchsheet.
 Concentrations of extract agree with benchsheet.
 Testtube rack labelled with project id and test.

Initiated		Reviewed	
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☒	N ☐	Y ☐	N ☐

Comments:

VOLUMES ATTACHED

1704

QUANTERRA-CALLAB LABORATORY
Analytical Bench Sheet

Page 1 of 1

Project Number: 300681

Date: 31 JUL 98

Test Code: P-8270-S

Test Description: Prep - Semivolatile Organics by GC/MS

Turnaround Status: NORMAL Sample Matrix: AIRTRAIN Date Assigned: _____ Prep Completion Due: _____

SOP-Section/Page (Revision): _____

Extractions: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Soxhlet ☐ KD
☐ Roto Vap ☐ Shaker ☐ Other _____

Samp ID	Holding Time	Sample Size	Spiked & in Solvent Date/Initials	1st pH To:	2nd pH To:	Extraction Sonic/Shak Date/Initials	KD/N2 Reduc. ABN	GPC	KD/N2 Reduc.	Screen Date/Initials	Final Concentr Date/Initials
0001SA	08 AUG 98	SEE ATTACHMENT	3/01/98 8/1	14	1	8/1/98 8/1	8/15/98				
0002SA	08 AUG 98										
0003SA	08 AUG 98										
0004SA	08 AUG 98										
0005SA	09 AUG 98										
0006SA	10 AUG 98										
0007SA	10 AUG 98										
0008SA	09 AUG 98										
0009SA	08 AUG 98										
0010SA	08 AUG 98										
0011SA	11 AUG 98										
MB	NA	1.0L							8/15/98	NA	SA ML
A											
AD											

COMBINED WITH SOXHLET FRACTION

Project Due: 19 AUG 98

DCS With Project: 300681

DCS Code: 01 AUG 98-16A

LCS With Project: NA

LCS Code: NA

Method Blank With Project: 300681

Extraction Includes Project(s): 300681

Notes/Comments:

** PLEASE PUT COMMENTS ON ANOMALY SHEET **

MSQC with Project: NA MSQC Code: NA

1705

Date To Instruments: 8/5/98 By: DNT Peer Approval By: _____

QUANTERRA-CALLAB LABORATORY
Quality Assurance Sheet

Project #: 300681 Test: P-8270-S

Quality Assurance/Quality Control:

Sample ID: MB, A/AD n^o Spiking Standard Name: ABN SW 846 Surrogate

Spike Code ID: AT031698A Volume: 500 μ l Conc: 100-200 ppm

Spiked By: SV Witness: C. Hyatt

Sample ID: A/AD Spiking Standard Name: ABN SW 846 Spike

Spike Code ID: AT04898A Volume: 500 μ l Conc: 100-200 ppm

Spiked By: SV Witness: C. Hyatt

Sample ID: _____ Spiking Standard Name: _____

Spike Code ID: _____ Volume: _____ Conc: _____

Spiked By: _____ Witness: _____

Sample ID: _____ Spiking Standard Name: _____

Spike Code ID: _____ Volume: _____ Conc: _____

Spiked By: _____ Witness: _____

Solvent: Manufacturer And Lot Number:

Extracting Solvent: MeCl₂ Lot # M17327

Solvent Keeper: _____

Transfer Solvent: _____

Derivatizing Reagent: _____

Final Solvent: _____

Other: _____

Was an aliquot taken? Y / N

If yes, how much was aliquoted? _____ mL _____ mL

What was the sample concentration before aliquot? _____

Why was the aliquot taken?

1706

QUANTERRA-CALLAB LABORATORY
Anomaly Report Form

Project #: 300681 Test: P-8270-S

Anomalies:

Sample(s) Affected:

- ☐ Sample broken during shipping. _____
- ☐ Limited sample volume. _____
- ☐ Matrix required a subsample to facilitate extraction. _____
- ☐ pH of sample required excess acid/base (please circle). _____
- ☐ Solvent and sample were miscible. _____
- ☐ Emulsion problems. _____
- ☐ Emulsion problem required centrifuging. _____
- ☐ Sample lost during preparation.
Re-extraction performed? Yes/No _____
- ☐ Concentration volume went lower than specified in the
SOP. _____
- ☐ Concentration time longer than normal. _____
- ☐ Extraction solvent saturated with organic material,
therefore sample volume was not concentrated but
adjusted based on the screening. _____
- ☐ Final concentration greater than specified in the SOP
due to the screening results. _____
- ☐ Precipitate observed in the extract. _____
- ☒ Other, please comment below. MB/DCS

Comments:

*DUE TO LIMITED AMOUNT OF ADWSW846 SURROGATE, MB + DCS
WERE SPIKED @ 1X, AND TAKEN TO 5A/ML (SOXHLETS SPIKED 3X,
TAKEN TO 1/3 5A/ML).*

Submitted By: _____

INT

Date: _____

8/5/98

1767

QUANTERRA-CALLAB LABORATORY
Prep (Extraction) Check List

Project #: 300681 Test: P-8270-S

Chemist: _____ Date: _____

Reviewer: _____ Date: _____

Number of samples: ~~11~~ Number of extracts: 3 (MB/DCS)
*SAMPLES COMBINED
WITH SOXHLET FRACTIONS*

Benchsheet:

SOP section and page number filled out properly.
Each step of extraction procedure initial'ed and dated.
Anomalies or deviations from SOP documented.
pH adjustments noted.
Solvent manufacturer and lot number completed.
Volumes and weights of samples to two sig. figs.

Initiated		Reviewed	
Y ☒	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐

QA/QC:

DCS/MS forms filled out properly.
Spike information correct on bench sheet.
Spike witness?
If not spiked per SOP, were spike amounts verified?

Initiated		Reviewed	
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐

LIMS:

Extraction date (complete date) correct.
QC lot number present and correct.
QC Run number present and correct.
Prep released (date extract goes to Inst.).

Initiated		Reviewed	
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐

Extracts:

Number of extracts agree with benchsheet.
Concentrations of extract agree with benchsheet.
Testtube rack labelled with project id and test.

Initiated		Reviewed	
Y ☐	N ☐	Y ☐	N ☐
Y ☐	N ☐	Y ☐	N ☐
Y ☒	N ☐	Y ☐	N ☐

Comments:

1703

Analysis Log Copies

1769

QUANTERRA INCORPORATED
West Sacramento

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

REVIEWED BY/DATE

INITIAL	CAL DATE	SKL	01/27/98

DATA UPLOAD/FILE ID

INSTRUMENT ID F16

PAGE 1 OF 1

[illegible]

QUANTERRA INCORPORATED
West Sacramento

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

DATA UPLOAD/FILE ID

REVIEWED BY/DATE

INITIAL CAL DATE SLSL 8/22/98

AP9 8/31/98

INSTRUMENT ID F16

PAGE 1 OF 1

204-850-822-98A

DATE	TIME	OP	SAMPLE ID	FILE ID	CONC.	UN	TAPE ID	COMMENTS
8/31/98	1220	DET	SAMPLE DETPP081358A	W16990831	-	2:		
	1231		SSTD080 BOWLE 082248A	ST16990831	-			
	1307		BOWLE AP9 062538F	ST16990831A	-			
	1335		10	C	-			
	1402		20	D	-			
	1432		50	E	-			
	1502		120	G	-			
	1531		160	H	-			
	1602		SRLK5X 31Jul98-16A	300681MBSX	1/350/1000			SRLK5X ↓
	1631		↓ F 01 Aug 98	SF	1/350/1000			SRLK ↓
	1701		DCS-A ↓	FMS	↓			SRLK ↓
	1730		↓ -AD ↓	FDS	↓			
	1800		↓ -A 31Jul98- ↓	XMS	1/350/1000			
	1830		↓ -AD ↓	XDS	↓			
	1900		S-MMS-2	01	1/350/1000			
	1931		↓ -1B	02	↓			SRLK ↓
	2001		T- ↓	03	1/350/1000			
	2030		↓ -FB	04	↓			
	2100		↓ -Y	05	↓			SRLK ↓
	2130		↓ -3	06	↓			
	2159		S- ↓	07	1/350/1000			
	2229		↓ -RB	08	1/350/1000			
	2258		↓ -RB	09	↓			
	2328		↓ -Y	10	1/350/1000			
	2358		↓ -5	11	↓			

[illegible]

Instrument Tune

1773

DECAFLUOROTRIPHENYLPHOSPHINE

Tuning Report
08/27/98 9:12
Instrument: F16
294

Data: U16980827 # 294
Cali: U16980827
Analyst: DAT

Base m/z:
RIC:
Acct. No.:

Case Number:

Laboratory: QUANTERRA

Contract:

m/z	Intensity	% RA	Ion Abundance Criteria			Actual	Status
			Min %	Max %	Mass		
51	15536.	55.2	30.0	60.0	198	55.2	PASS
68	0.	0.0	0.0	2.0	69	0.0	PASS
69	18496.	65.7	0.0	100.0	198	65.7	PASS
70	114.	0.4	0.0	2.0	69	0.6	PASS
127	16080.	57.1	40.0	60.0	198	57.1	PASS
197	0.	0.0	0.0	1.0	198	0.0	PASS
198	28160.	100.0	100.0	100.0	198	100.0	PASS
199	1918.	6.8	5.0	9.0	198	6.8	PASS
275	6992.	24.8	10.0	30.0	198	24.8	PASS
365	800.	2.8	1.0	100.0	198	2.8	PASS
441	3580.	12.7	0.0	100.0	443	79.3	PASS
442	24000.	85.2	40.0	100.0	198	85.2	PASS
443	4512.	16.0	17.0	23.0	442	18.8	PASS

1774

Mass List Data: U16980827 # 295 Base m/z: 198
 08/27/98 9:12:00 + 3:17 Cali: F16980821 # 3 RIC: 264704.
 Sample: 50UG/ML DFTPP 081398A
 Conds.: INST. ID: F16
 #294 to #296 summed - #290

35	0.00	0.	Minima	Min	Inten:	281.
444			Maxima	#	0	
Mass	% RA	Inten.	Mass	% RA	Inten.	
38?	S	1.13	318.	165	1.10	310.
39?		5.70	1606.	167	4.51	1270.
50?		15.34	4320.	168	2.36	664.
51?	S	55.17	15536.	174	1.06	298.
52?		2.85	802.	175	1.97	554.
56?		2.15	606.	179	3.42	964.
57?		4.20	1184.	180	2.35	662.
63?		2.08	586.	181	1.15	324.
65?		1.34	376.	185	1.30	366.
69		65.68	18496.	186	11.82	3328.
74		5.48	1542.	187	3.52	992.
75		8.17	2300.	192	1.31	370.
76		3.59	1010.	193	1.20	338.
77		57.44	16176.	196	3.66	1030.
78		4.13	1162.	198	100.00	28160.
79		3.93	1106.	199	6.81	1918.
80		3.05	860.	204	2.92	822.
81		3.91	1102.	205	5.36	1508.
82		1.04	294.	206	21.11	5944.
83		1.34	378.	207	3.06	862.
86		1.38	390.	211	1.46	410.
91		1.12	314.	217	5.52	1554.
92		1.14	320.	221	7.40	2084.
93		6.07	1710.	223	1.44	406.
98		4.84	1364.	224	11.39	3208.
99		3.44	970.	225	3.11	876.
101		2.05	578.	227	4.40	1240.
104		1.48	418.	229	1.17	330.
105		1.33	374.	244	9.79	2756.
107		15.37	4328.	245	1.55	436.
108		2.54	714.	246	1.61	452.
110		30.68	8640.	255	45.51	12816.
111		4.28	1206.	256	6.72	1892.
116		1.02	286.	258	2.24	630.
117		10.72	3020.	273	1.63	460.
118		1.02	288.	274	4.53	1276.
122		1.16	328.	275	24.83	6992.
123		1.50	422.	276	3.66	1032.
127		57.10	16080.	277	1.78	502.
128		4.62	1300.	296	5.28	1486.
129		20.06	5648.	323	2.15	606.
130		1.90	536.	334	1.27	358.
135		1.67	470.	365	2.84	800.
141		2.56	722.	372	1.29	362.
142		1.12	316.	423	4.74	1336.
147		1.23	346.	424	1.22	344.
148		2.54	716.	441	12.71	3580.
155		1.41	396.	442	85.23	24000.
156		2.09	588.	443	16.02	4512.
161		1.29	362.	444	1.71	482.

1775

Mass List Data: U16980827 # 295 Base m/z: 198
08/27/98 9:12:00 + 3:17 Cali: F16980821 # 3 RIC: 264704.
Sample: 50UG/ML DFTPP 081398A
Conds.: INST. ID: F16
#294 to #296 summed - #290

65	0.00	0.	Minima	Min Inten:	0.
75			Maxima	#	0
Mass	% RA	Inten.			
65?	1.34	376.			
67?	0.09	24.			
69	65.68	18496.			
70	0.40	114.			
72	0.09	24.			
73	0.82	230.			
74	5.48	1542.			
75	8.17	2300.			

1776

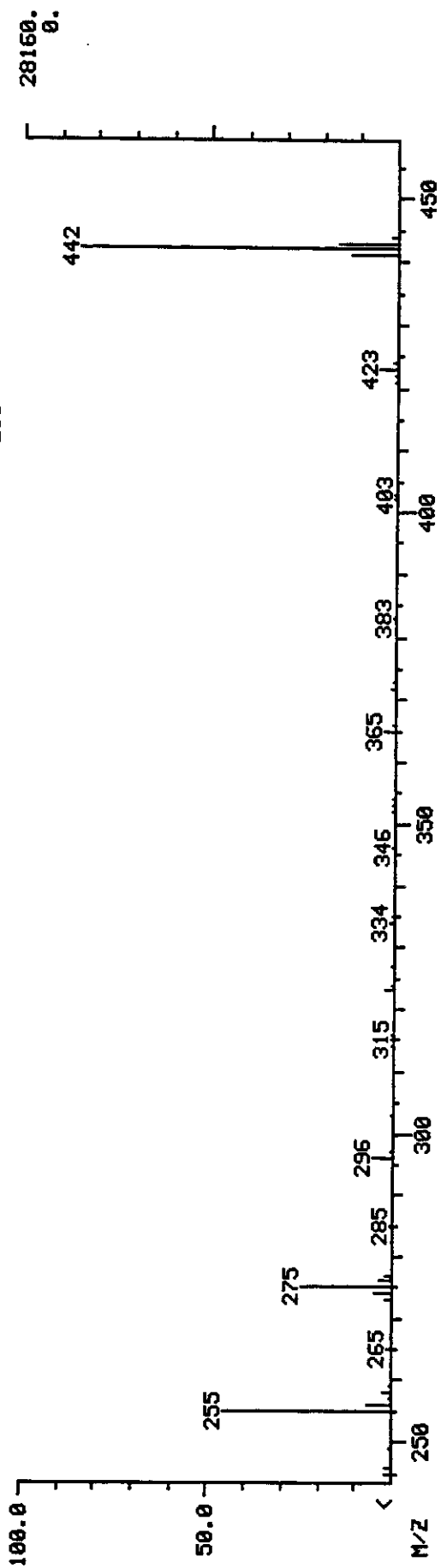
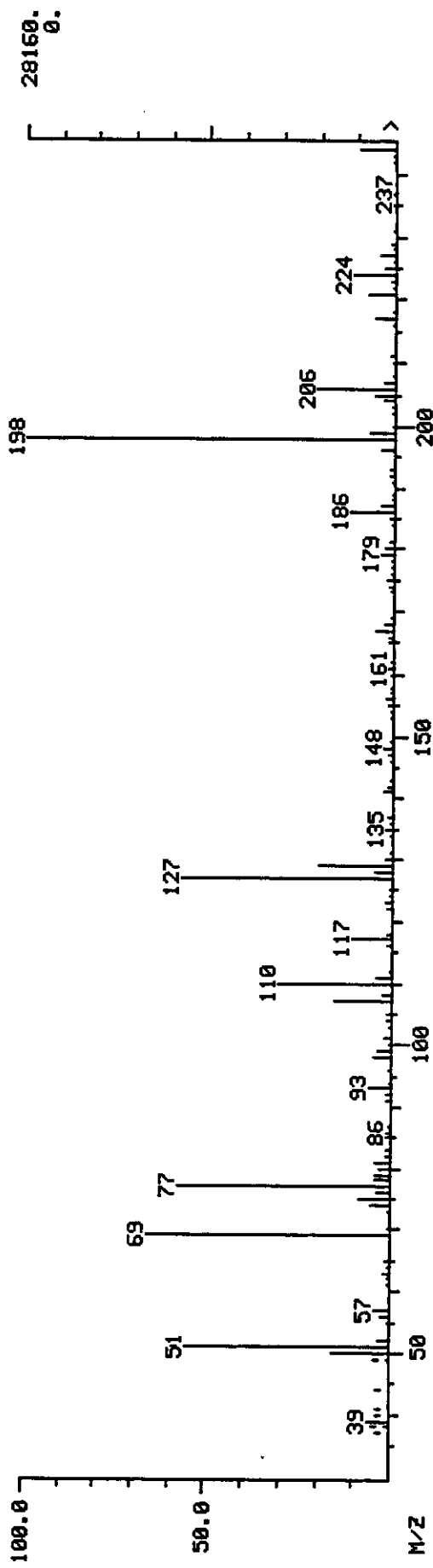
Mass List Data: U16980827 # 295 Base m/z: 198
08/27/98 9:12:00 + 3:17 Cali: F16980821 # 3 RIC: 264704.
Sample: 50UG/ML DFTPP 081398A
Conds.: INST. ID: F16
#294 to #296 summed - #290

Mass	% RA	Inten.	Minima	Min Inten:	0.
195	0.00	0.	Maxima	#	0
196	3.66	1030.			
198	100.00	28160.			
199	6.81	1918.			
200	0.60	168.			

1777

MASS SPECTRUM
08/27/98 9:12:00 + 3:17
SAMPLE: 50UG/ML DFTPP 081398A
COND.: INST. ID: F16
TEMP: 217 DEG. C
#294 TO #296 SUMMED - #290

DATA: U16980827 #295
CALI: F16980821 #3
BASE M/Z: 198
RIC: 254704.

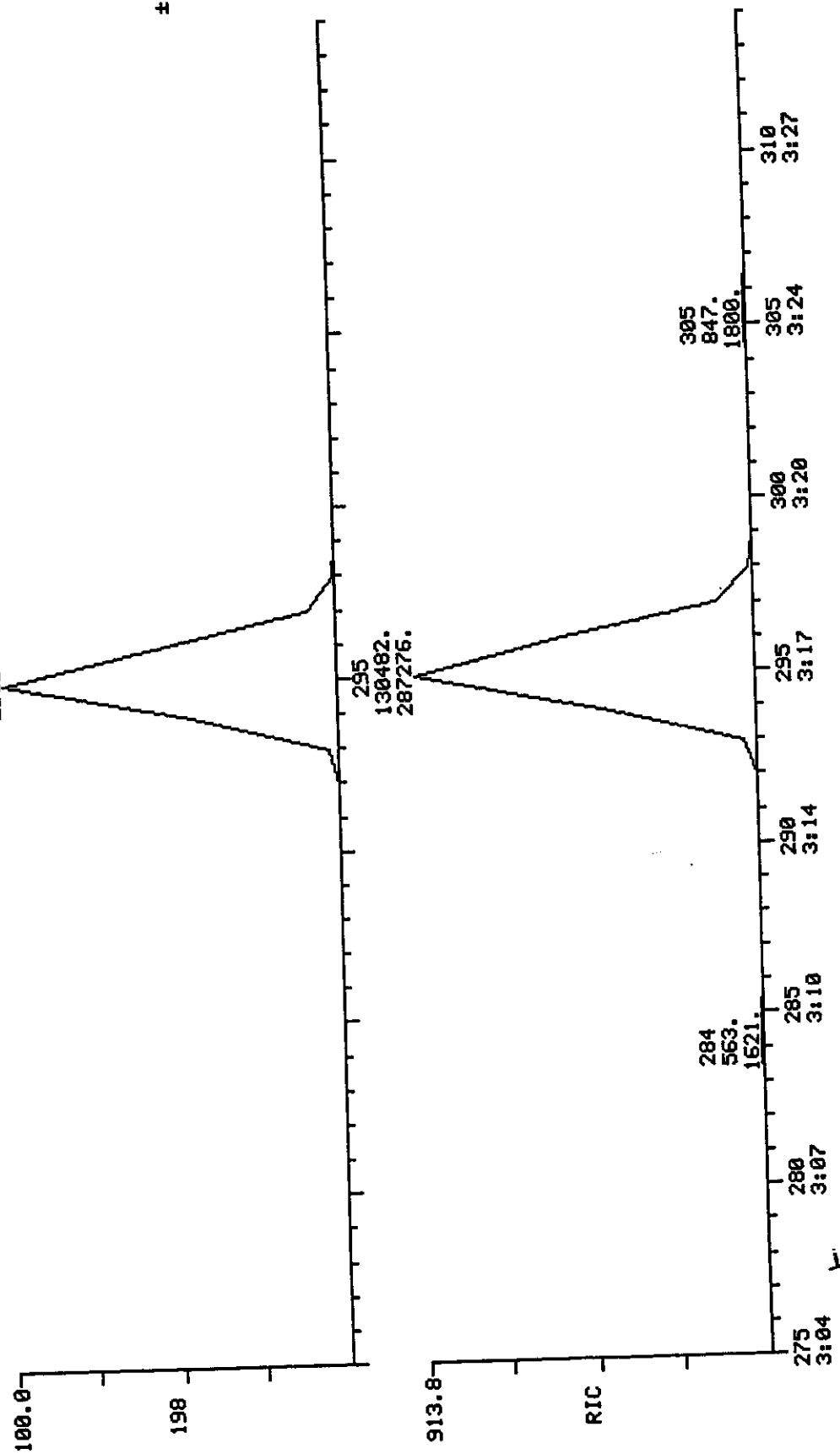


17.0

RIC+MASS CHROMATOGRAM
 08/27/98 9:12:00
 DATA: U16980827 #294 SCANS 275 TO 314
 CALI: F16980821 #3

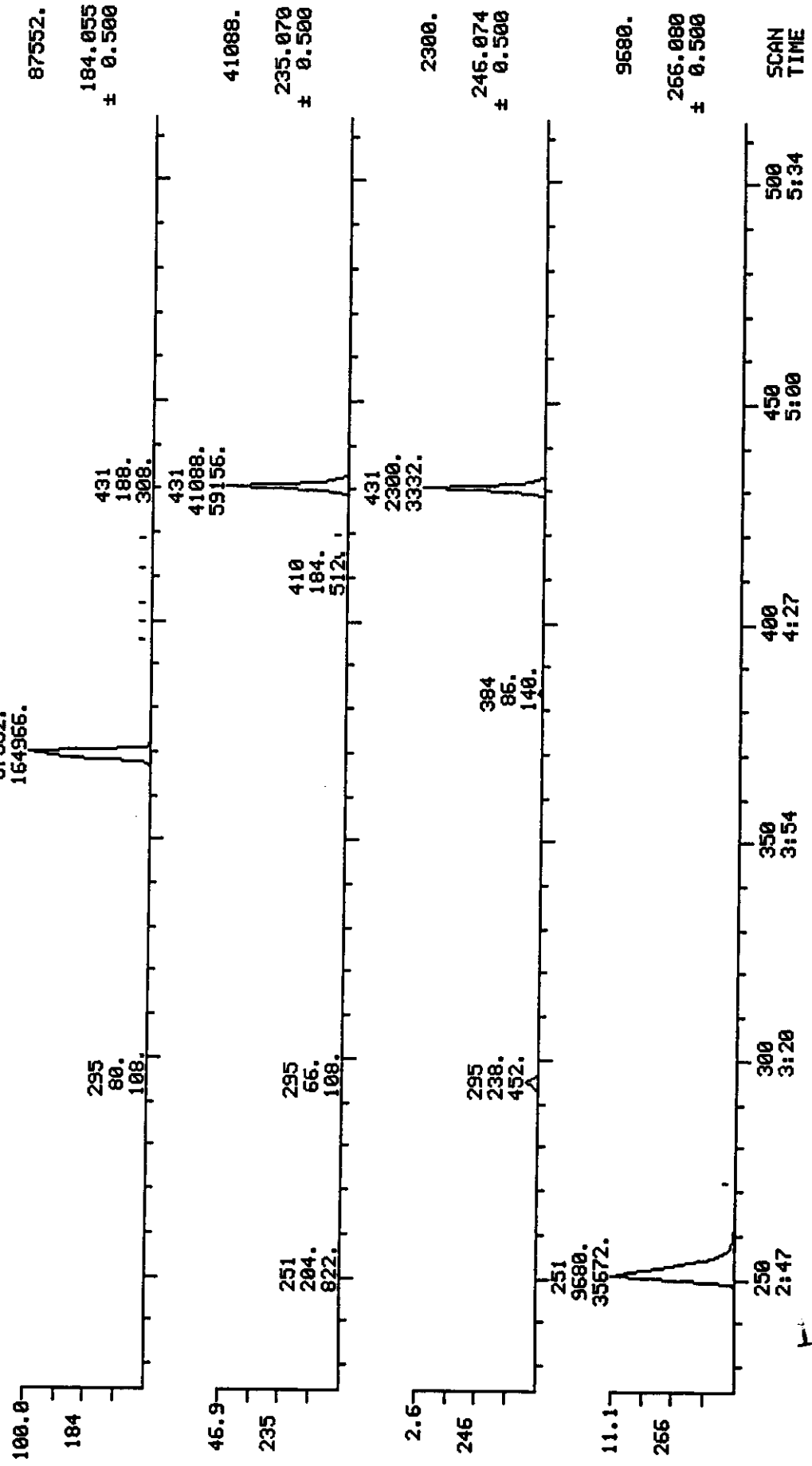
SAMPLE: 50UG/ML DFTPP 081398A
 CONDS.: INST. ID: F16
 RANGE: G 1.3000 LABEL: N 2.2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3

14288.
 198.059
 ± 0.500
 130550.



16980821

MASS CHROMATOGRAMS
 08/27/98 9:12:00
 DATA: U16980827 #294 SCANS 224 TO 514
 CALI: F16980821 #3
 SAMPLE: 50UG/ML DFTPP 081398A
 CONDS.: INST. ID: F16
 RANGE: G 1.3000 LABEL: N 2, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3



1-3-98

DECAFLUOROTRIPHENYLPHOSPHINE

Tuning Report
08/31/98 12:20
Instrument: F16
288
Case Number:

Data: U16980831 # 288
Cali: U16980831
Analyst: DAT
Laboratory: QUANTERRA

Base m/z:
RIC:
Acct. No.:
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria			Actual	Status
			Min %	Max %	Mass		
51	16416.	57.0	30.0	60.0	198	57.0	PASS
68	0.	0.0	0.0	2.0	69	0.0	PASS
69	18912.	65.7	0.0	100.0	198	65.7	PASS
70	176.	0.6	0.0	2.0	69	0.9	PASS
127	16416.	57.0	40.0	60.0	198	57.0	PASS
197	0.	0.0	0.0	1.0	198	0.0	PASS
198	28800.	100.0	100.0	100.0	198	100.0	PASS
199	1914.	6.6	5.0	9.0	198	6.6	PASS
275	6792.	23.6	10.0	30.0	198	23.6	PASS
365	756.	2.6	1.0	100.0	198	2.6	PASS
441	3176.	11.0	0.0	100.0	443	85.8	PASS
442	19264.	66.9	40.0	100.0	198	66.9	PASS
443	3700.	12.8	17.0	23.0	442	19.2	PASS

1181

Mass List Data: U16980831 # 289 Base m/z: 198
 08/31/98 12:20:00 + 3:13 Cali: F16980821 # 3 RIC: 263168.
 Sample: 50UG/ML DFTPP 081398A
 Conds.: INST. ID: F16
 #288 to #290 summed - #284

35	0.00	0.	Minima	Min Inten:	293.
444			Maxima	# 0	
Mass	% RA	Inten.	Mass	% RA	Inten.
38?	1.37	394.	156	1.97	568.
39?	5.71	1644.	161	1.22	352.
50?	15.17	4368.	167	4.35	1254.
51?	57.00	16416.	168	2.35	678.
52?	3.11	896.	174	1.11	320.
56?	2.22	638.	175	1.82	524.
57?	4.37	1258.	179	3.29	948.
62?	1.02	294.	180	2.39	688.
63?	2.19	632.	181	1.20	346.
65?	1.46	420.	185	1.72	494.
69	65.67	18912.	186	11.75	3384.
74	5.44	1566.	187	3.52	1014.
75	8.26	2380.	192	1.24	356.
76	3.68	1060.	193	1.17	338.
77	57.67	16608.	196	3.90	1122.
78	4.07	1172.	198	100.00	28800.
79	4.06	1170.	199	6.65	1914.
80	2.90	834.	204	2.83	816.
81	3.93	1132.	205	5.09	1466.
82	1.15	332.	206	20.83	6000.
83	1.29	372.	207	S 2.76	794.
86	1.51	434.	211	1.19	344.
91	S 1.03	296.	217	5.33	1534.
92	1.47	424.	221	7.61	2192.
93	6.01	1732.	223	1.55	446.
98	4.58	1320.	224	10.94	3152.
99	3.60	1036.	225	2.89	832.
101	2.12	612.	227	4.19	1206.
103	1.03	298.	229	1.15	332.
104	1.49	430.	244	9.39	2704.
105	1.18	340.	245	1.45	418.
107	15.17	4368.	246	1.57	452.
108	2.48	714.	255	44.11	12704.
110	31.33	9024.	256	6.56	1890.
111	4.54	1308.	258	2.19	632.
116	1.25	360.	273	1.52	438.
117	10.15	2924.	274	4.37	1258.
118	1.02	294.	275	23.58	6792.
122	1.18	340.	276	3.47	1000.
123	1.53	440.	277	1.63	470.
127	57.00	16416.	296	5.10	1468.
128	4.61	1328.	323	2.00	576.
129	19.56	5632.	334	1.21	348.
130	1.83	528.	365	2.62	756.
135	1.60	460.	372	1.12	322.
137	1.05	302.	423	4.56	1314.
141	2.56	738.	441	11.03	3176.
147	1.44	414.	442	66.89	19264.
148	2.72	784.	443	12.85	3700.
155	1.37	396.	444	1.40	402.

1782

Mass List Data: U16980831 # 289 Base m/z: 198
08/31/98 12:20:00 + 3:13 Cali: F16980821 # 3 RIC: 263168.
Sample: 50UG/ML DFIPP 081398A
Conds.: INST. ID: F16
#288 to #290 summed - #284

Mass	% RA	Inten.	Minima	Min Inten:	Maxima	#
65	0.00	0.		0.		
75						0
65?	1.46	420.				
67?	0.11	32.				
69	65.67	18912.				
70	0.61	176.				
73	0.85	244.				
74	5.44	1566.				
75	8.26	2380.				

1783

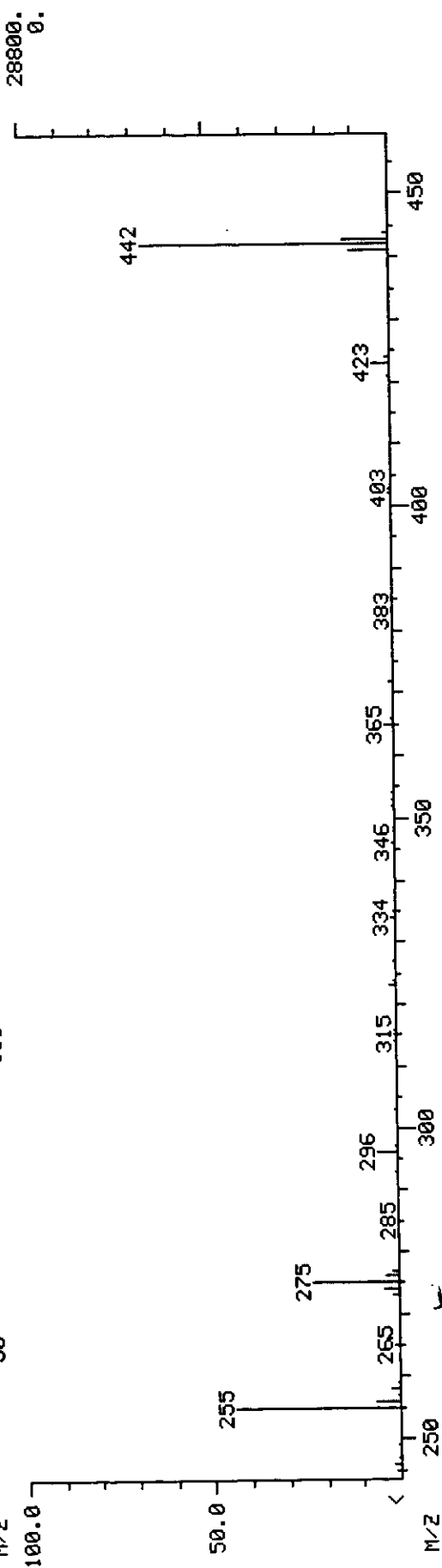
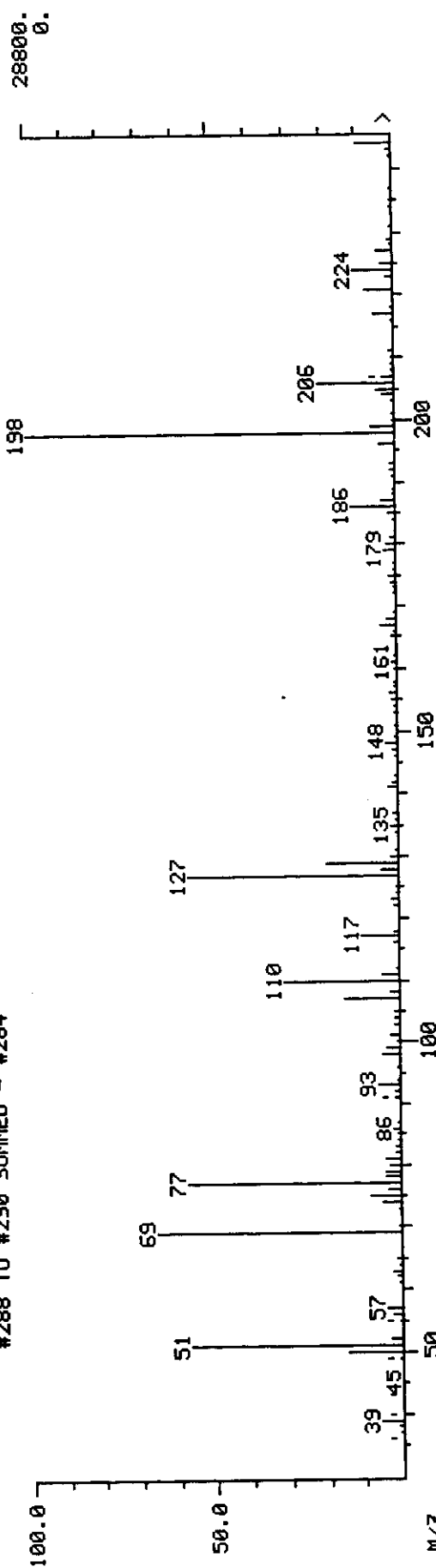
Mass List Data: U16980831 # 289 Base m/z: 198
08/31/98 12:20:00 + 3:13 Cali: F16980821 # 3 RIC: 263168.
Sample: 50UG/ML DFTPP 081398A
Conds.: INST. ID: F16
#288 to #290 summed - #284

195	0.00	0.	Minima	Min Inten:	0.
200			Maxima	#	0
Mass	% RA	Inten.			
195	0.24	70.			
196	3.90	1122.			
198	100.00	28800.			
199	6.65	1914.			
200	0.72	206.			

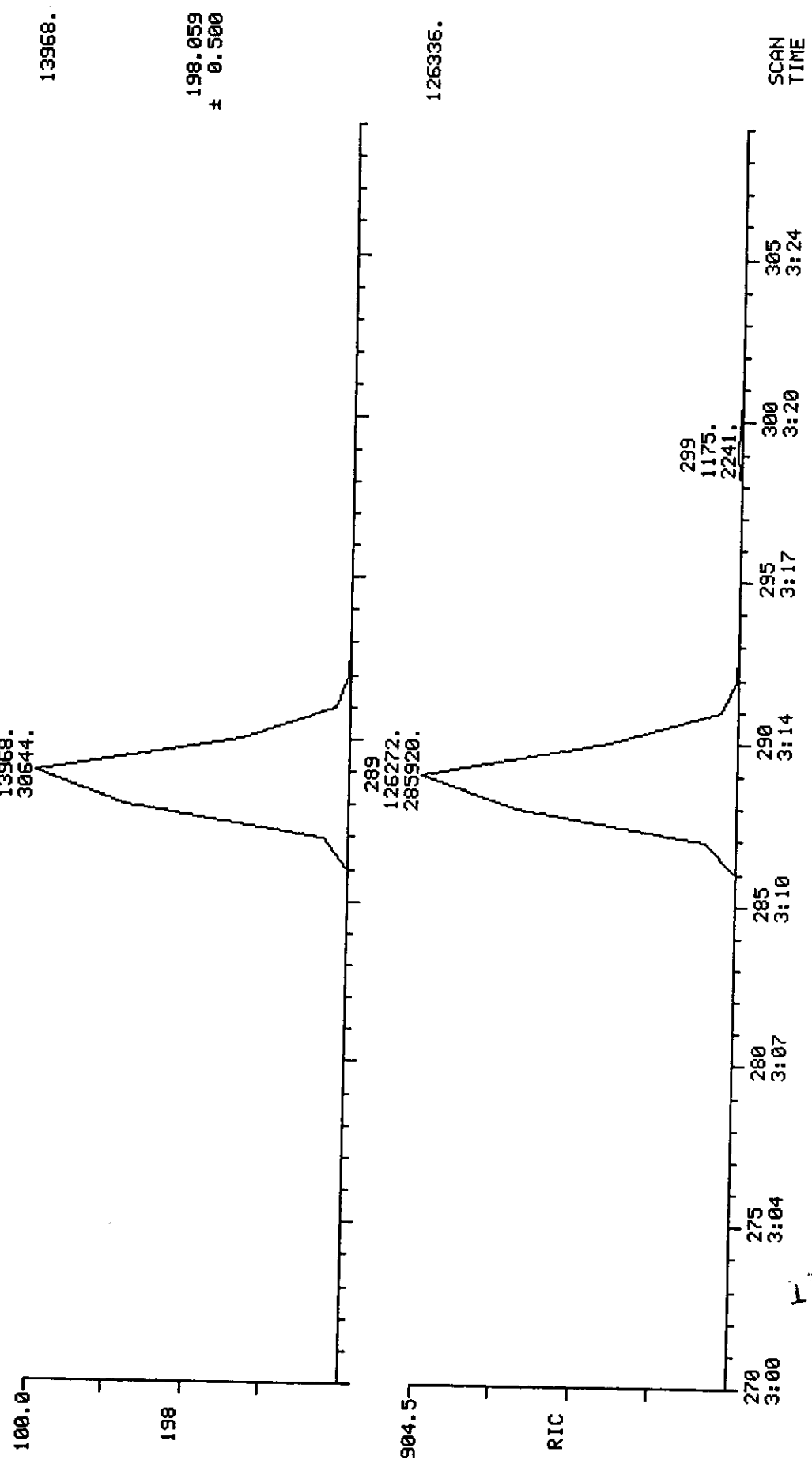
1784

DATA: U16980831 #289
CALI: F16980821 #3
BASE M/Z: 198
RIC: 263168.

MASS SPECTRUM
08/31/98 12:20:00 + 3:13
SAMPLE: 50UG/ML DFTPP 081398A
CONDS.: INST. ID: F16
TEMP: 214 DEG. C
#288 TO #290 SUMMED - #284



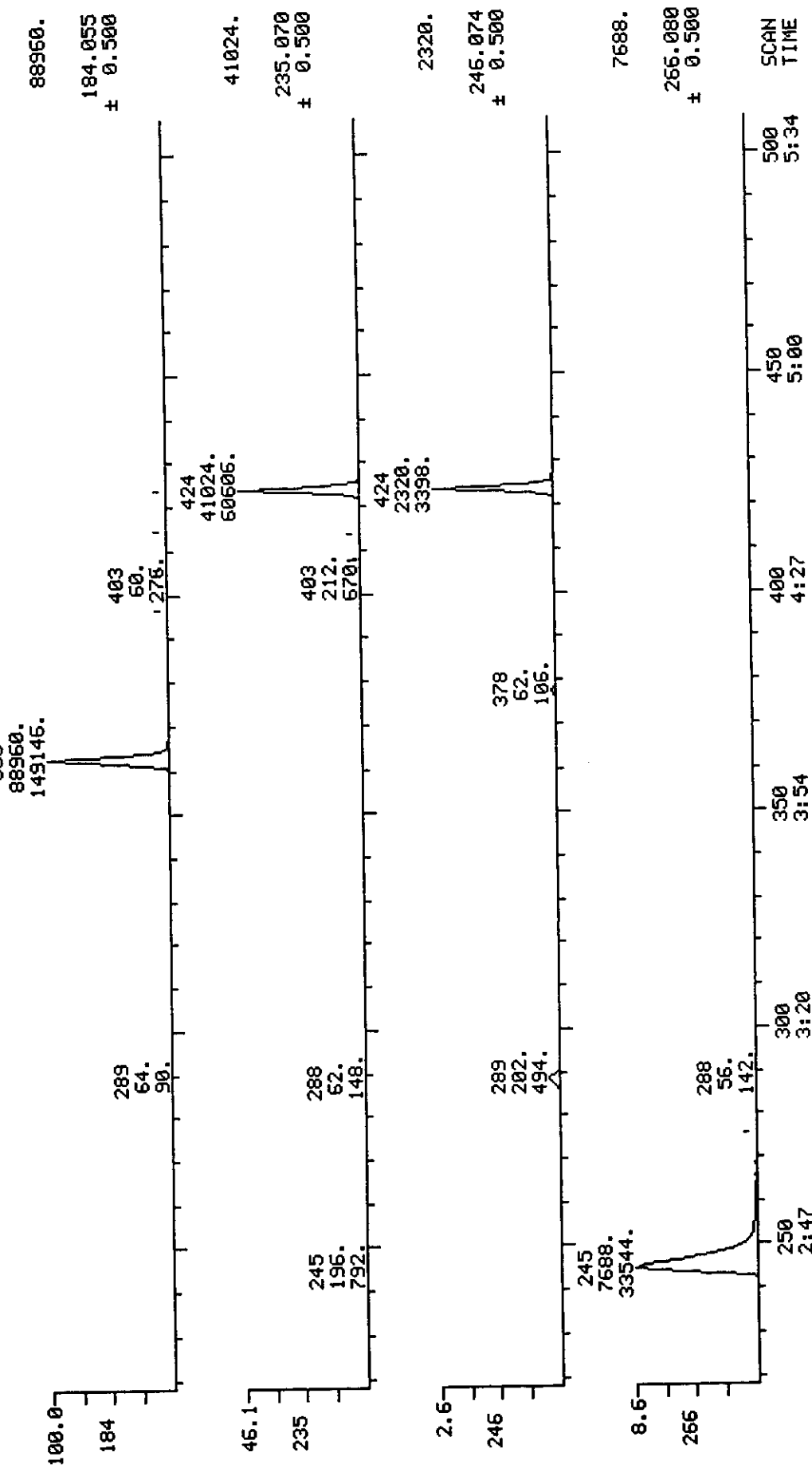
RIC+MASS CHROMATOGRAM
 08/31/98 12:20:00
 SAMPLE: 50UG/ML DFTPP 081398A
 CONDS.: INST. ID: F16
 RANGE: G 1,3000 LABEL: N 2, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3
 DATA: U16980831 #288 SCANS 270 TO 309
 CALI: F16980821 #3



1-1-98
 (2)

DATA: U16980831 #288
CALI: F16980821 #3

MASS CHROMATOGRAMS
08/31/98 12:20:00
SAMPLE: 50UG/ML DFTPP 081398A
CONDS.: INST. ID: F16
RANGE: G 1.3000 LABEL: N 2



DECAFLUOROTRIPHENYLPHOSPHINE

Tuning Report
09/02/98 14:41
Instrument: F16
288

Data: U16980902 # 288
Cali: U16980902
Analyst: DAT

Base m/z:
RIC:
Acct. No.:

Case Number:

Laboratory: QUANTERRA

Contract:

m/z	Intensity	% RA	Ion Abundance Criteria				Status
			Min %	Max %	Mass	Actual	
51	13072.	52.6	30.0	60.0	198	52.6	PASS
68	0.	0.0	0.0	2.0	69	0.0	PASS
69	15232.	61.3	0.0	100.0	198	61.3	PASS
70	126.	0.5	0.0	2.0	69	0.8	PASS
127	13728.	55.3	40.0	60.0	198	55.3	PASS
197	0.	0.0	0.0	1.0	198	0.0	PASS
198	24832.	100.0	100.0	100.0	198	100.0	PASS
199	1688.	6.8	5.0	9.0	198	6.8	PASS
275	6400.	25.8	10.0	30.0	198	25.8	PASS
365	722.	2.9	1.0	100.0	198	2.9	PASS
441	3212.	12.9	0.0	100.0	443	79.8	PASS
442	21024.	84.7	40.0	100.0	198	84.7	PASS
443	4024.	16.2	17.0	23.0	442	19.1	PASS

1728

Mass List Data: U16980902 # 289 Base m/z: 198
 09/02/98 14:41:00 + 3:13 Cali: U16980902 # 3 RIC: 231424.
 Sample: 50UG/ML DFTPP 081398A
 Conds.: INST. ID: F16
 #288 to #290 summed - #284

35	0.00	0.	Minima	Min Inten:	251.
444			Maxima	# 0	
Mass	% RA	Inten.	Mass	% RA	Inten.
39?	S 5.71	1418.	168	2.24	556.
50?	14.30	3552.	174	1.21	300.
51?	52.64	13072.	175	1.90	472.
52?	2.90	720.	177	1.10	272.
56?	2.02	502.	179	3.14	780.
57?	4.16	1032.	180	2.42	600.
63?	1.96	486.	181	1.30	322.
65?	1.36	338.	185	1.78	442.
69	61.34	15232.	186	11.66	2896.
74	4.97	1234.	187	3.70	918.
75	7.72	1918.	192	1.17	290.
76	3.19	792.	193	1.23	306.
77	54.12	13440.	196	3.97	986.
78	3.82	948.	198	100.00	24832.
79	3.93	976.	199	6.80	1688.
80	2.85	708.	204	2.79	692.
81	3.85	956.	205	5.28	1312.
82	1.10	274.	206	21.55	5352.
83	1.06	264.	207	3.09	768.
86	1.33	330.	211	1.68	416.
91	1.19	296.	217	5.56	1380.
92	1.35	334.	221	6.97	1732.
93	6.05	1502.	222	1.29	320.
98	4.46	1108.	223	1.71	424.
99	3.33	826.	224	11.39	2828.
101	2.09	518.	225	3.12	776.
104	1.54	382.	227	4.17	1036.
105	1.36	338.	229	1.15	286.
107	14.11	3504.	244	9.78	2428.
108	2.46	612.	245	1.60	398.
110	28.80	7152.	246	1.81	450.
111	4.19	1040.	255	46.65	11584.
116	1.19	296.	256	7.03	1746.
117	10.07	2500.	258	2.38	590.
123	1.46	362.	273	1.83	454.
125	1.01	252.	274	4.43	1100.
127	55.28	13728.	275	25.77	6400.
128	4.74	1176.	276	3.76	934.
129	18.94	4704.	277	1.79	444.
130	2.00	496.	296	5.38	1336.
135	1.68	418.	323	2.09	520.
137	1.08	268.	334	1.32	328.
141	2.54	630.	365	2.91	722.
147	1.37	340.	372	1.26	314.
148	2.75	684.	423	4.85	1204.
155	1.43	354.	424	1.25	310.
156	1.94	482.	441	12.93	3212.
161	1.31	326.	442	84.66	21024.
165	1.11	276.	443	16.20	4024.
167	4.49	1114.	444	1.80	446.

1123

Mass List Data: U16980902 # 289 Base m/z: 198
09/02/98 14:41:00 + 3:13 Cali: U16980902 # 3 RIC: 231424.
Sample: 50UG/ML DFTPP 081398A
Conds.: INST. ID: F16
#288 to #290 summed - #284

Mass	% RA	Inten.	Minima	Min Inten:	Maxima	#
65	0.00	0.				
75						0
65?	1.36	338.				
69	61.34	15232.				
70	0.51	126.				
73	0.74	184.				
74	4.97	1234.				
75	7.72	1918.				

1190

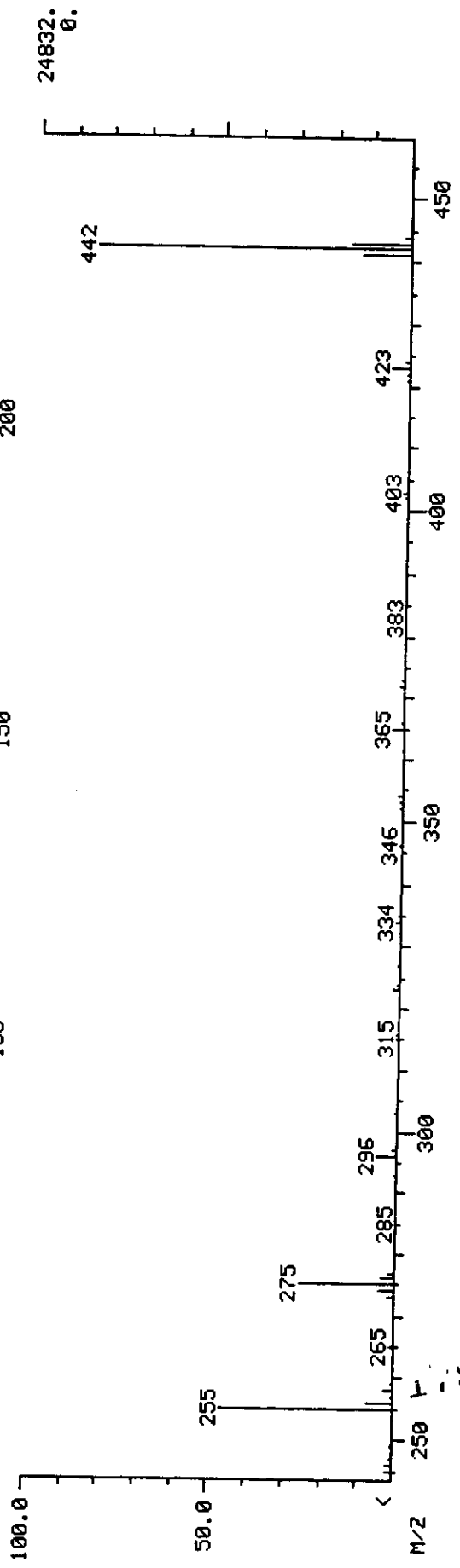
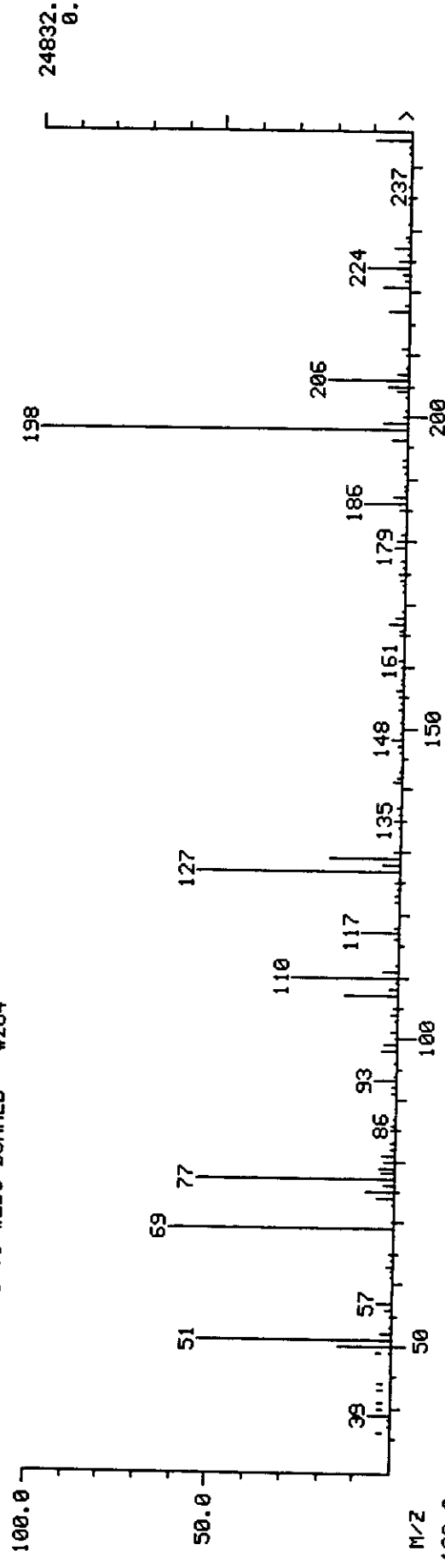
Mass List Data: U16980902 # 289 Base m/z: 198
09/02/98 14:41:00 + 3:13 Cali: U16980902 # 3 RIC: 231424.
Sample: 50UG/ML DFTPP 081398A
Conds.: INST. ID: F16
#288 to #290 summed - #284

195	0.00	0.	Minima	Min Inten:	0.
200			Maxima	#	0
Mass	% RA	Inten.			
196	3.97	986.			
198	100.00	24832.			
199	6.80	1688.			
200	0.92	228.			

1781

MASS SPECTRUM
09/02/98 14:41:00 + 3:13
SAMPLE: 50UG/ML DFTPP 081398A
CONDS.: INST. ID: F16
TEMP: 215 DEG. C
#288 TO #290 SUMMED - #284

DATA: U16980902 #289
CALI: U16980902 #3
BASE M/Z: 198
RIC: 231424.

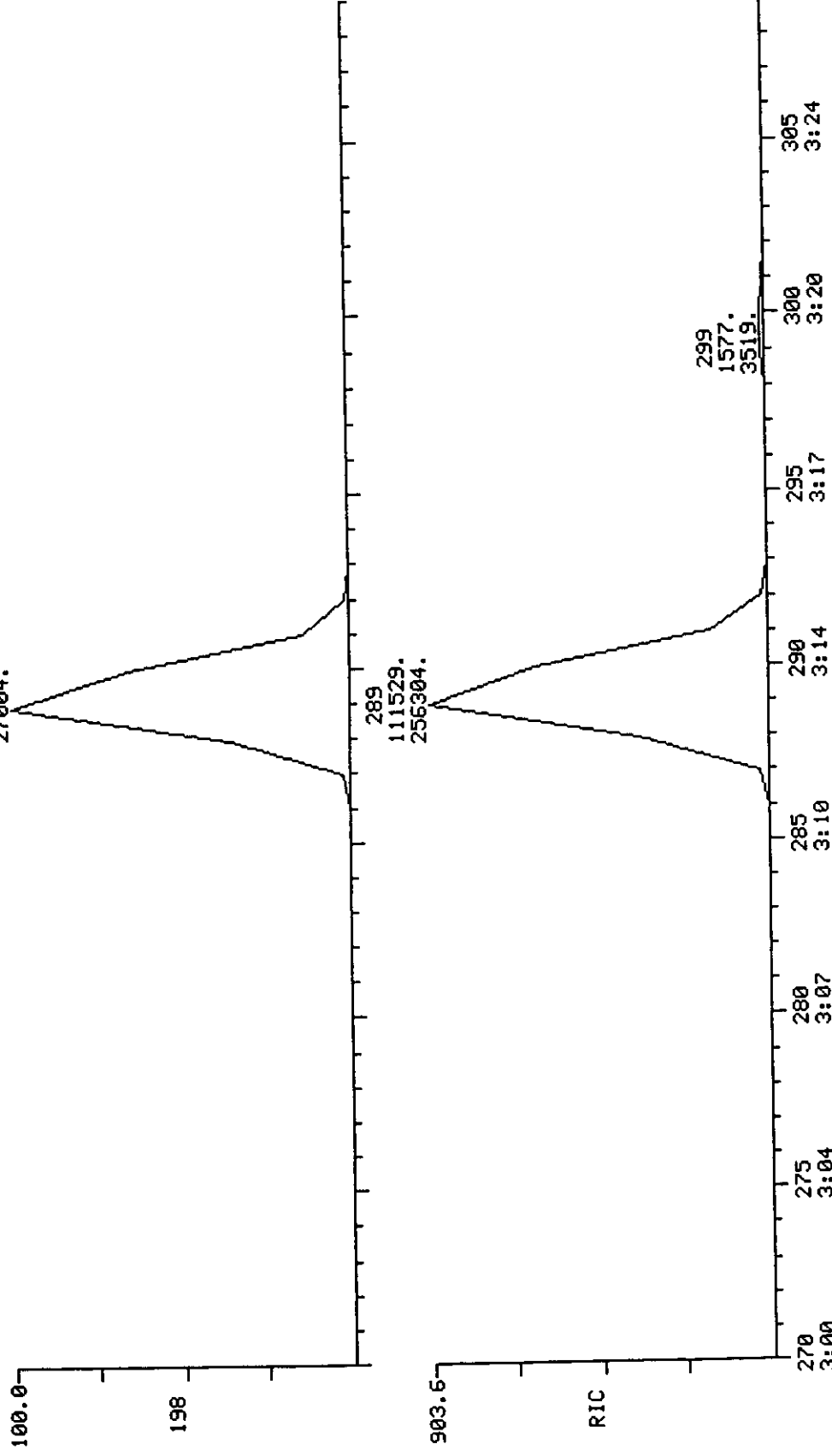


RIC+MASS CHROMATOGRAM
 09/02/98 14:41:00
 SAMPLE: 50UG/ML DFTPP 081398A
 CONDS.: INST. ID: F16
 RANGE: G 1,3000 LABEL: N 2, 2.0 QUAN: A 5, 2.0 J 0 BASE: U 20, 3
 DATA: U16980902 #288 SCANS 270 TO 309
 CALI: U16980902 #3

12352.

198.059
± 0.500

111515.



SCAN
TIME

305
3:24

300
3:20

295
3:17

290
3:14

285
3:10

280
3:07

275
3:04

270
3:00

RIC

903.6

100.0

198

TECHNICAL REPORT DATA Please read instructions on the reverse before completing		
1. REPORT NO. EPA-454/R-00-025F	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE Final Report Hot Mix Asphalt Plants, Truck Loading and Silo Filling, Manual Methods Testing, Asphalt Plant C, Los Angeles, California Volume 6 of 8	5. REPORT DATE May 2000	
	6. PERFORMING ORGANIZATION CODE	
7. AUTHOR(S) Frank J. Phoenix	8. PERFORMING ORGANIZATION REPORT NO.	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Pacific Environmental Services, Inc. Post Office Box 12077 Research Triangle Park, North Carolina 27709-2077	10. PROGRAM ELEMENT NO.	
	11. CONTRACT/GRANT NO. 68-D-98004	
12. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency Office of Air Quality Planning and Standards Emissions, Monitoring and Analysis Division Research Triangle Park, North Carolina 27711	13. TYPE OF REPORT AND PERIOD COVERED Final	
	14. SPONSORING AGENCY CODE EPA/200/04	
15. SUPPLEMENTARY NOTES		
16. ABSTRACT The United States Environmental Protection Agency (EPA) Office of Air Quality Planning and Standards (OAQPS) is investigating hot mix asphalt plants to identify and quantify particulate matter (PM), methylene chloride extractable matter (MCEM), and organic hazardous air pollutant (HAP) emissions during asphalt concrete loading operations. In support of this investigation, the OAQPS issued Pacific Environmental Services, Inc. (PES) a series of work assignments to conduct emissions testing at a hot mix asphalt plant during load-out operations. The primary objective of the emissions testing was to characterize the uncontrolled emissions of PM, MCEM, polynuclear aromatic hydrocarbons (PAHs), semi-volatile organic hazardous air pollutants (SVOHAPS), and volatile organic hazardous air pollutants (VOHAPS) from a hot mix production plant during loading operations. An asphalt plant south of Los Angeles, California was selected by EPA as the host facility. Testing was performed over five consecutive days beginning on July 24, 1998. Testing was performed under two conditions. Under normal operations, testing was performed to characterize load-out emissions from the tunnel exhaust and load-in emissions from the asphalt concrete storage silo. Under background conditions, testing was performed to characterize emissions from the combustion of diesel fuel in transport trucks. The entire report consists of eight volumes totaling 4,234 pages, Vol. 1 (388 pages), Vol. 2 (308 pages), Vol. 3 (573 pages), Vol. 4 (694 pages), Vol. 5 (606 pages), Vol. 6 (564 pages), Vol. 7 (570 pages), and Vol. 8 (531 pages).		
17. KEY WORDS AND DOCUMENT ANALYSIS		
a. DESCRIPTIONS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COASTI Field/Group
Hazardous Air Pollutants Methylene Chloride Extractable Matter Particulate Matter Polynuclear Aromatic Hydrocarbons Semi-volatile Organic Hazardous Air Pollutants Volatile Organic Hazardous Air Pollutants		
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