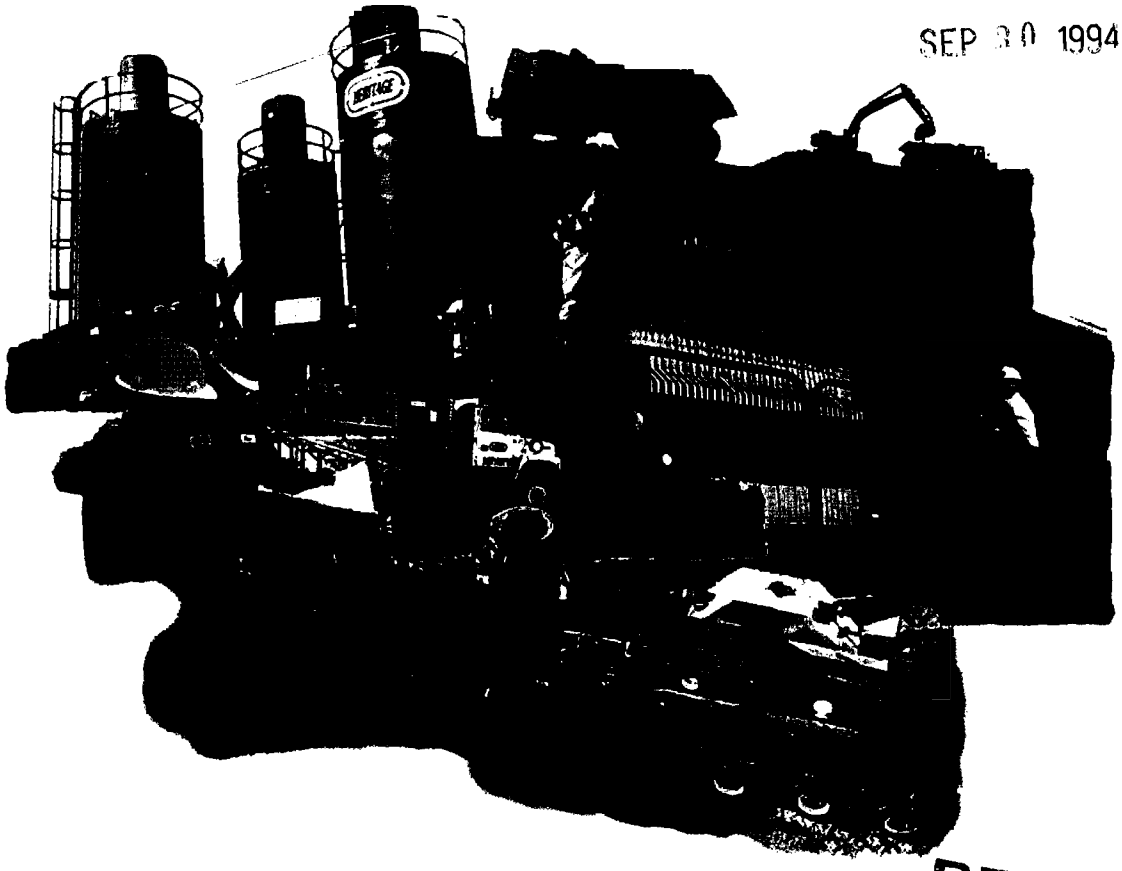
US EPA RECORDS CENTER REGION 5
1010740

File in Section D.2.4.
ILD 085349264

RECEIVED
SEP 30 1994
SEP 1 - 1994
PERM



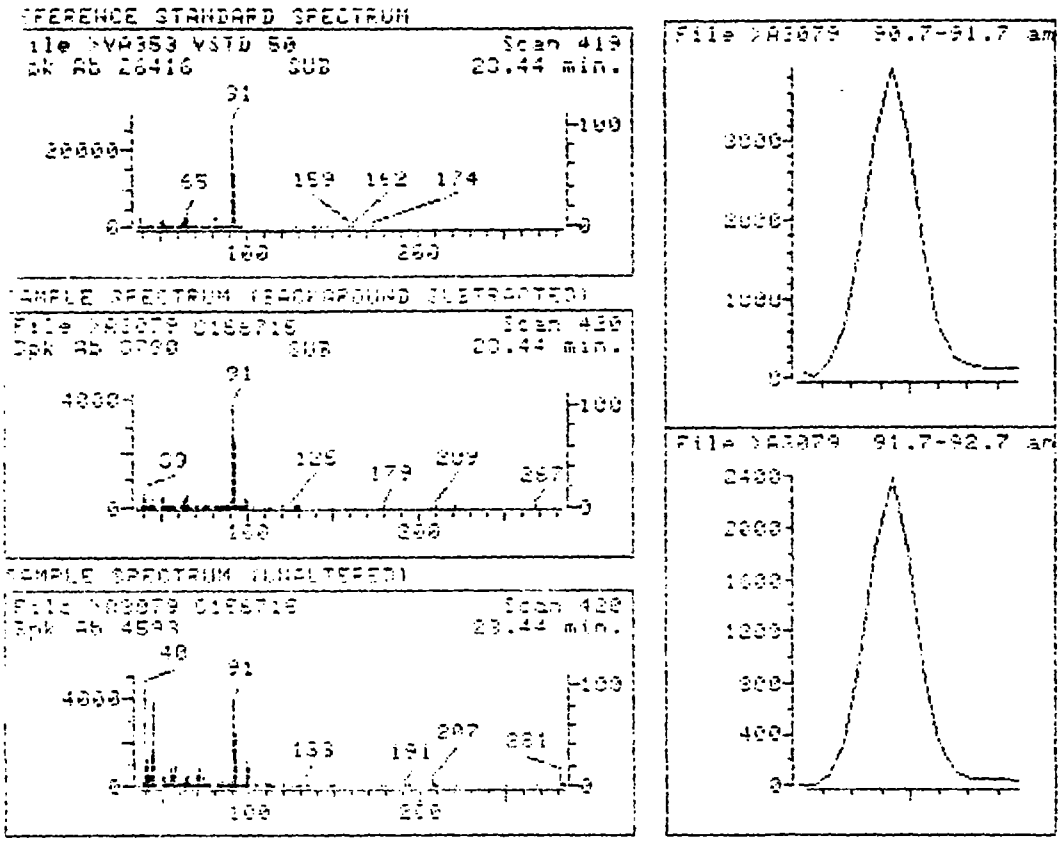
VOLUME 2 - APPENDIX H
PART 3

RCRA FACILITY INVESTIGATION
PHASE I - REPORT

0311620007 -- Cook County
Heritage Environmental Services, Inc.
ILD 085349264

Heritage Treatment Center
Lemont, Illinois

HERITAGE REMEDIATION / ENGINEERING, INC.



RECEIVED
SEP 1 - 1994
IEPA - BOL
PERMIT SECTION

Data File: >A3079::E1
Name: 0196715
Misc: SS SAMPLE - HPE/SM
Quant Time: 940524 17:14
Injected at: 940524 16:35

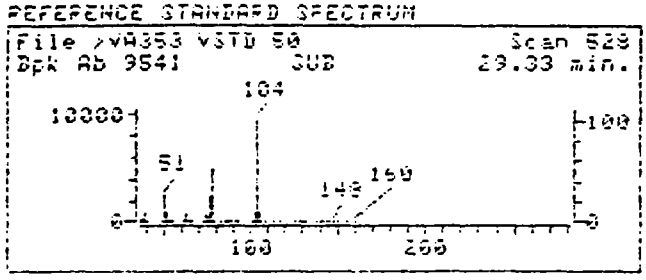
Quant Output File: ^A3079::SS

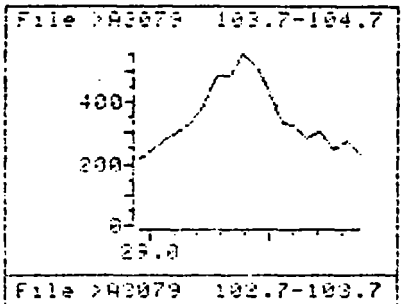
Quant ID File: IDSUDA::D6
Last Calibration: 940524 11:50

Compound No: 41
Compound Name: Toluene
Scan Number: 420
Retention Time: 23.44 min.
Quant Ion: 92.0
Area: 29339
Concentration: 12.82 UG/KG
q-value: 97

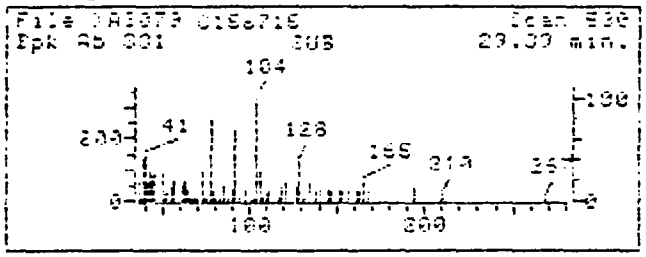
HQ 5/25/94.

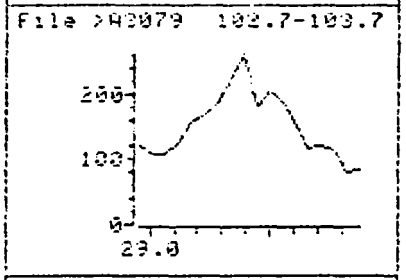
REFERENCE STANDARD SPECTRUM



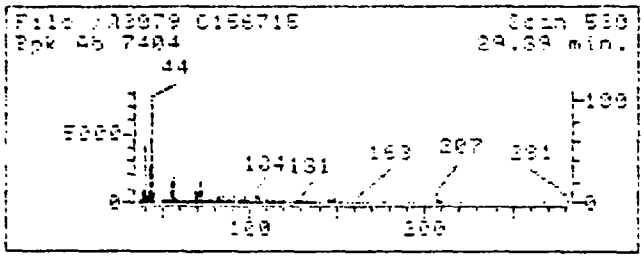


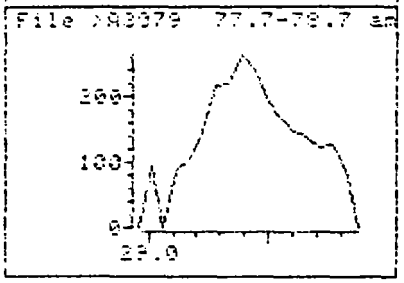
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNFILTERED)





Data File: >A3079::E1
Name: 0156715
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940524 17:14
Injected at: 940524 16:35

Quant Output File: ^A3079::SS

Quant ID File: IOSUDA::D5
Last Calibration: 940524 11:50

Compound No: 46
Compound Name: Styrene
Scan Number: 530
Retention Time: 29.39 min.
Quant Ion: 104.0
Area: 7355
Concentration: 2.96 UG/KG
q-value: 97

HC 5/25/94.

QUANT REPORT

D: USER8 Quant Rev: 6 Quant Time: 940524 20:14
File: ^A3083::D8 Injected at: 940524 19:36
le: >A3083::E2 Dilution Factor: 1.00000
156/17
G SAMPLE - HRE/BM

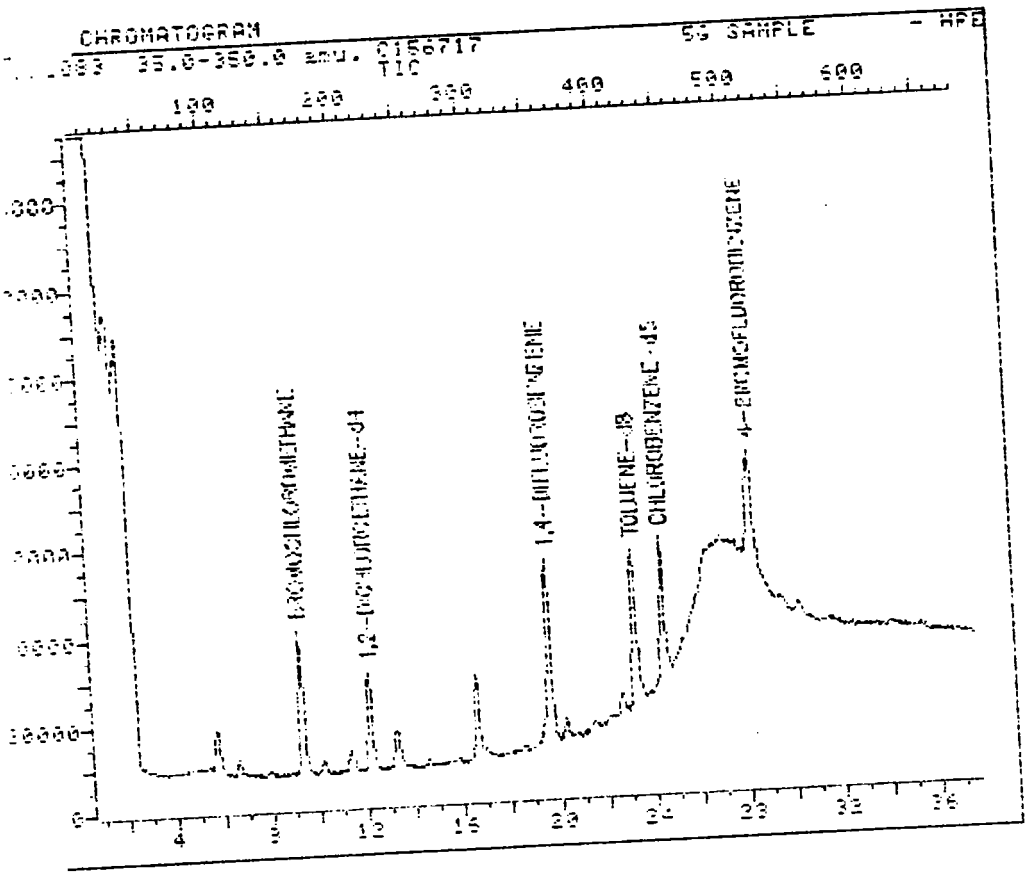
OK
SS 5/25/94

: USUDA::D8
QUANTITATION FILE FOR VOLATILE SOILS WC/MSD-A
alibration: 940524 11:50

Compound	R.T.	Q ion	Area	Conc	Units	q
[illegible]	9.32	128.0	54474	50.00	UG/KG	100
ethylene Chloride	5.75	84.0	25126	19.35	UG/KG	100
etone	6.62	43.0	30303	94.93	UG/KG	95
richlorofluoromethane	7.97	101.0	5757	2.12	UG/KG	91
etrahydrofuran		[illegible].0	17445	34.86	UG/KG	93
,2-DICHLOROETHANE-d4		.0	92176	46.81	UG/KG	99
,4-DIFLUOROBENZENE		.0	197062	50.00	UG/KG	94
,1,1-Trichloroethane		[illegible].0	8476	2.99	UG/KG	95
richloroethene		3.0	40294	23.89	UG/KG	94
HLOROBENZENE-d5		2.0	125946	50.00	UG/KG	90
4-Methyl-2-Pentanone		3.0	16571	17.22	UG/KG	87
OLUENE-d8		8.0	150522	56.32	UG/KG	97
luene		2.0	13966	7.38	UG/KG	84
yl Benzene	26.34	106.0	4389	3.85	UG/KG	98
4-BROMOFLUOROBENZENE	28.34	95.0	81682	40.10	UG/KG	100
otal Xylenes	30.34	106.0	13646M	10.78	UG/KG SS	83

CLB-d5

pound is 1870



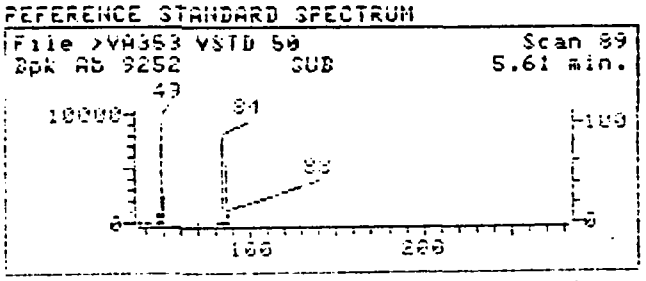
Quant Output File: ^A3083::SS

Data File: >A3083::E2
Name: C156717
Misc: 5G SAMPLE - HPE/SM

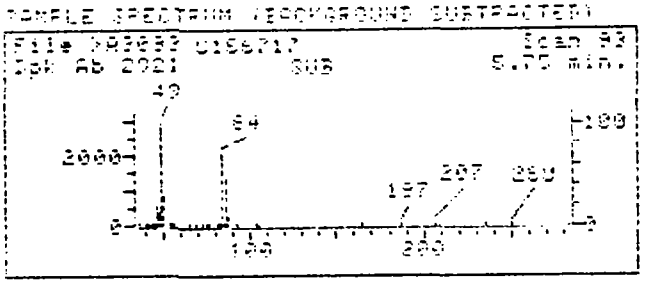
IM File: IDSUGA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS SC/MSD-A
Last Calibration: 940624 11:50

Operator ID: USER8
Quant Time: 940624 20:14
Injected at: 940624 19:36

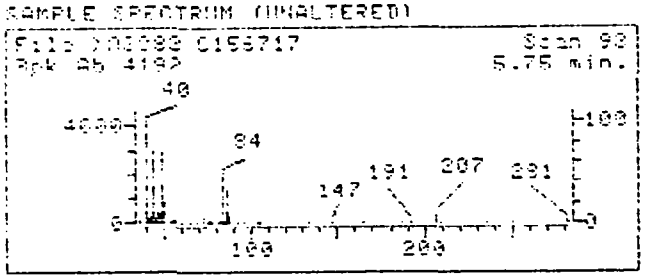
REFERENCE STANDARD SPECTRUM

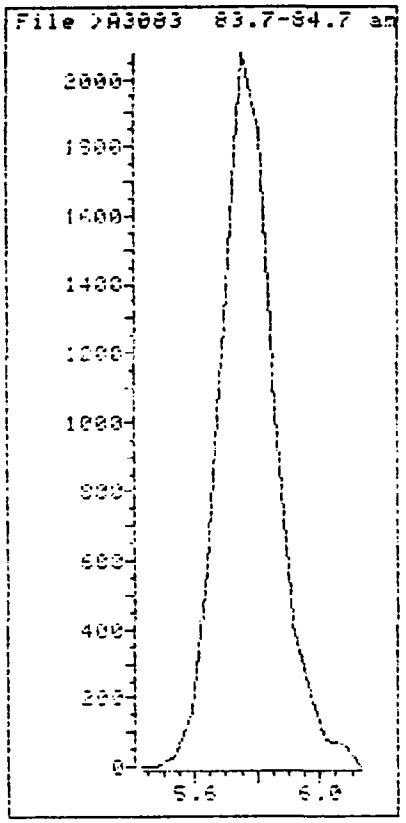


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



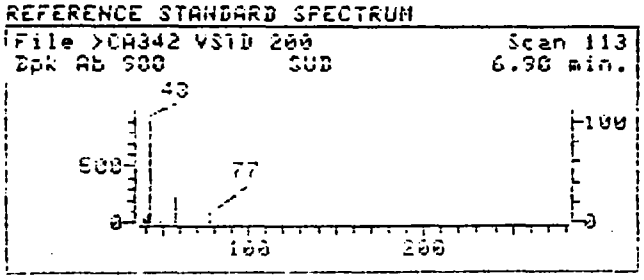


Data File: >A3083::E2 Quant Output File: ^A3083::SS
Name: C156717
Misc: SG SAMPLE - HRE/BM
Quant Time: 940524 20:14 Quant ID File: IDSVOA::D5
Injected at: 940524 19:36 Last Calibration: 940524 11:50

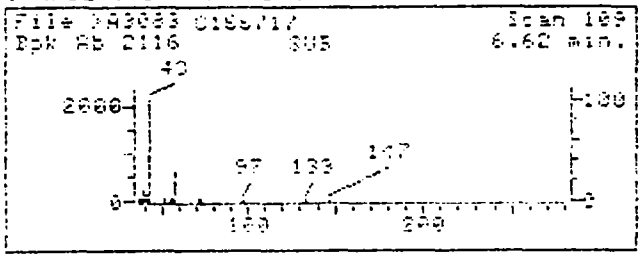
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 93
Retention Time: 5.75 min.
Quant Ion: 84.0
Area: 25126
Concentration: 19.35 UG/ML
q-value: 100

SS

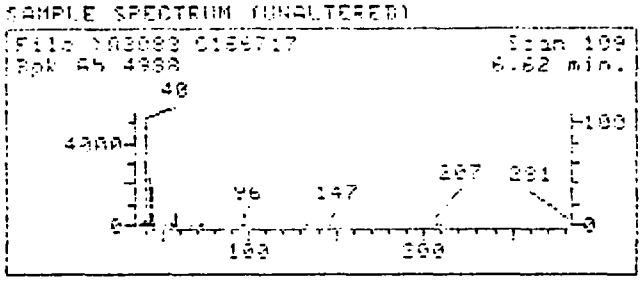
REFERENCE STANDARD SPECTRUM

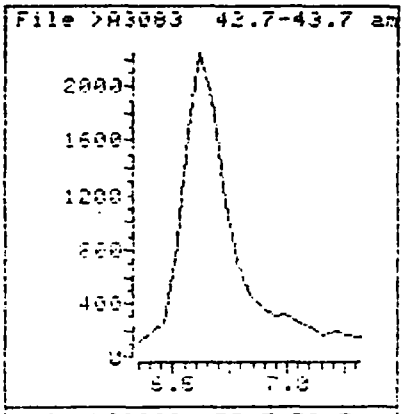


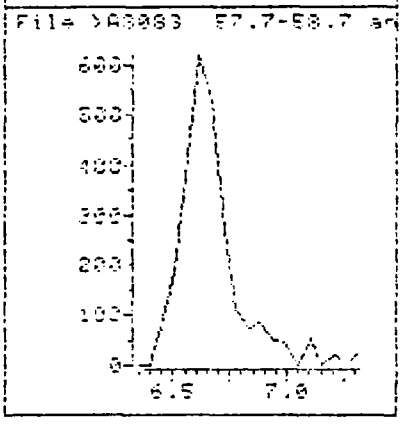
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3083::E2
Name: C156717
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 20:14
Injected at: 940524 19:36

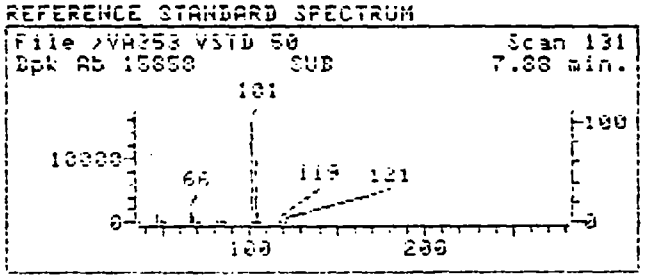
Quant Output File: ^A3083::SS

Quant ID File: IDSUDA::D5
Last Calibration: 940524 11:50

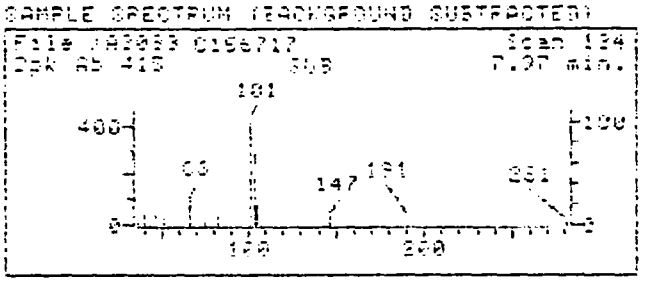
Compound No: 8
Compound Name: Acetone
Scan Number: 109
Retention Time: 6.62 min.
Quant Ion: 43.0
Area: 30303
Concentration: 96.93 UG/KG
q-value: 95

SKS

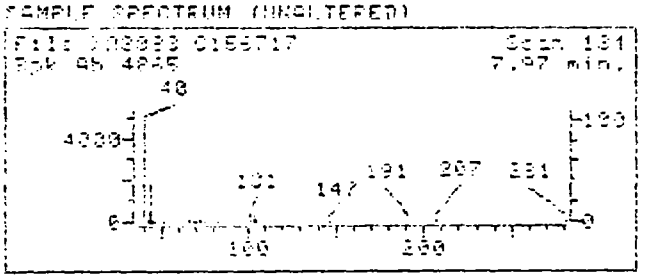
REFERENCE STANDARD SPECTRUM

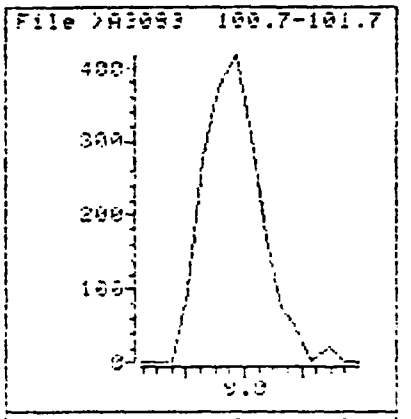


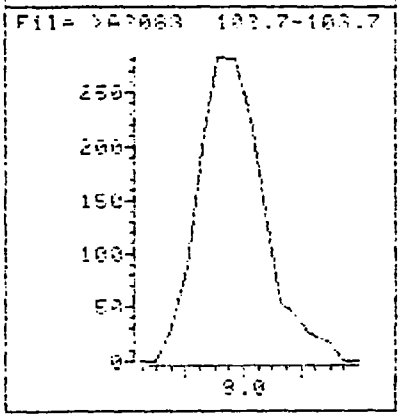
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNFILTERED)





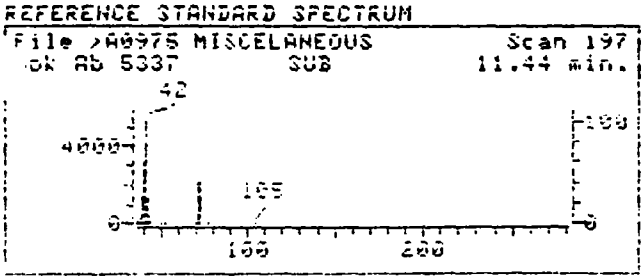


Data File: >A3083::E2 Quant Output File: ^A3083::SS
Name: C156717
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940524 20:14 Quant ID File: IDSU04::05
Injected at: 940524 19:36 Last Calibration: 940524 11:50

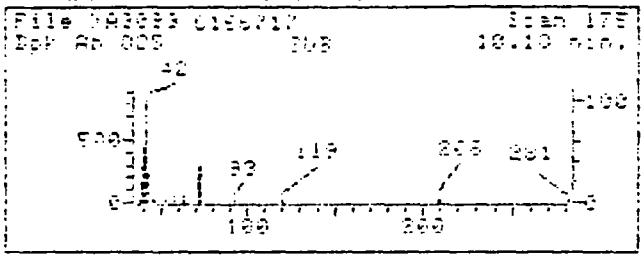
Compound No: 12
Compound Name: Trichlorofluoromethane
Scan Number: 134
Retention Time: 7.97 min.
Quant Ion: 101.0
Area: 5757
Concentration: 2.72 UG/KG
q-value: 91

BDL
JS

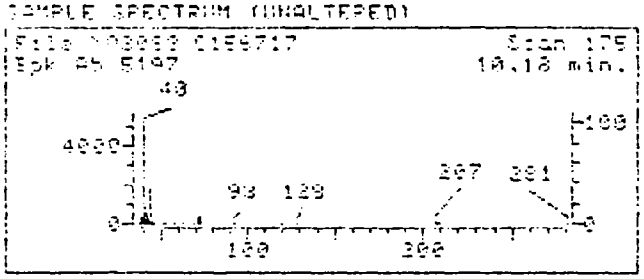
REFERENCE STANDARD SPECTRUM

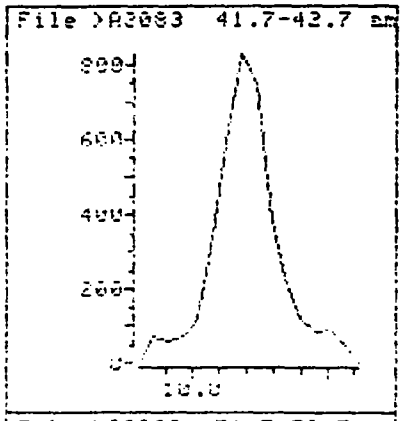


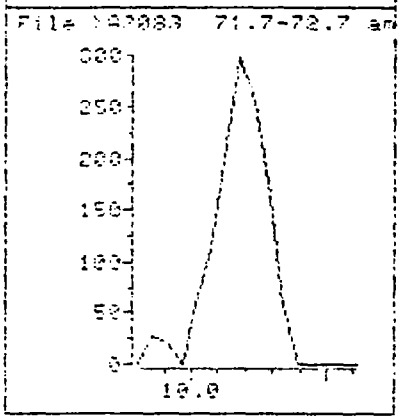
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







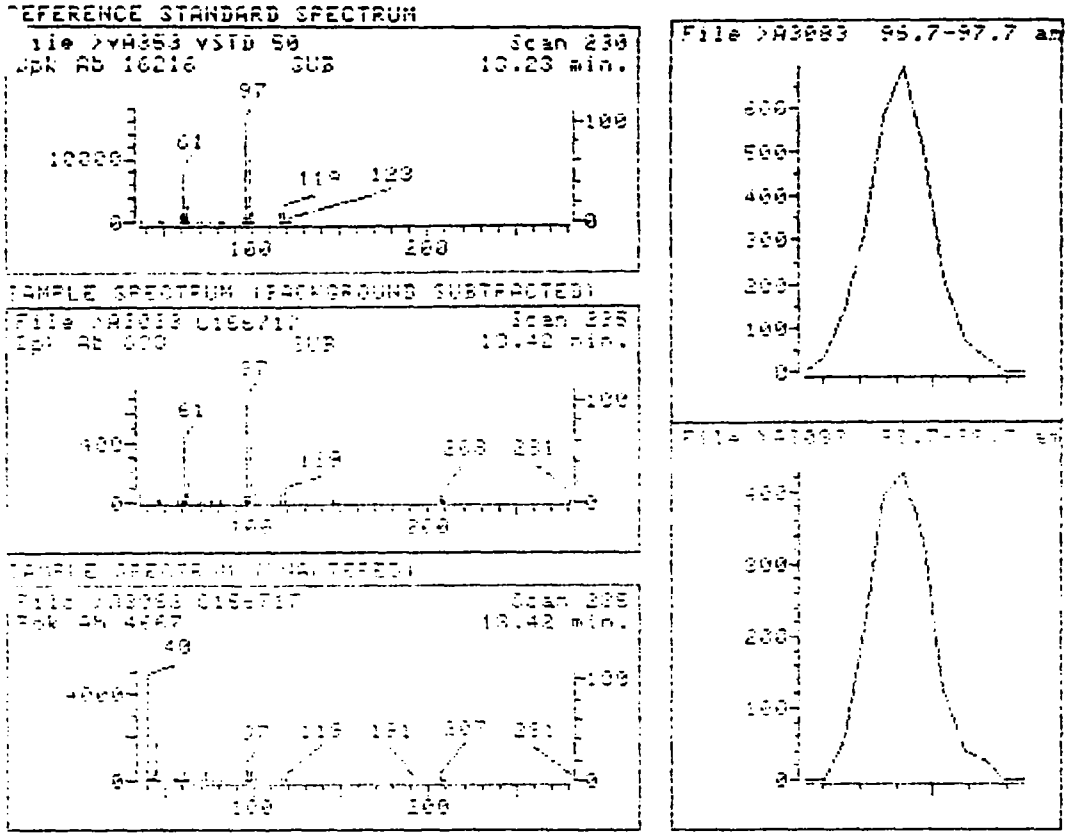
Data File: >A3083::E2
Name: C156717
Misc: SS SAMPLE - HPE/HM
Quant Time: 940524 20:14
Injected at: 940524 19:36

Quant Output File: ^A3083::SS

Quant ID File: IDSUQA::D5
Last Calibration: 940524 11:50

Compound No: 15
Compound Name: Tetrahydrofuran
Scan Number: 175
Retention Time: 10.18 min.
Quant Ion: 42.0
Area: 12445
Concentration: 34.86 UG/KG
q-value: 93

✓
SKS

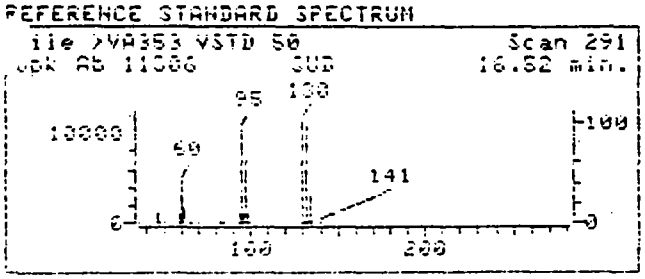


Data File: >A3083::S2 Quant Output File: ^A3083::SS
Name: C156717
Misc: SG SAMPLE - HPS/BM
Quant Time: 940524 20:14 Quant ID File: IDSVOA::05
Injected at: 940524 19:36 Last Calibration: 940524 11:50

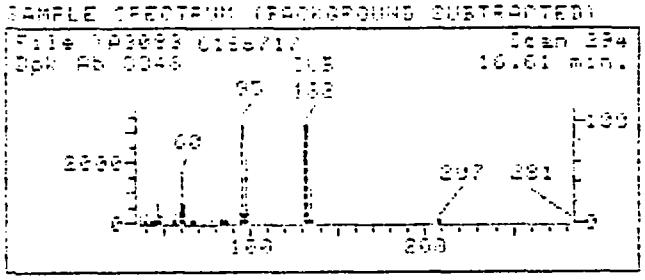
Compound No: 22
Compound Name: 1,1,1-Trichloroethane
Scan Number: 235
Retention Time: 13.42 min.
Quant Ion: 97.0
Area: 8416
Concentration: 2.99 UG/KG
q-value: 95

SKS

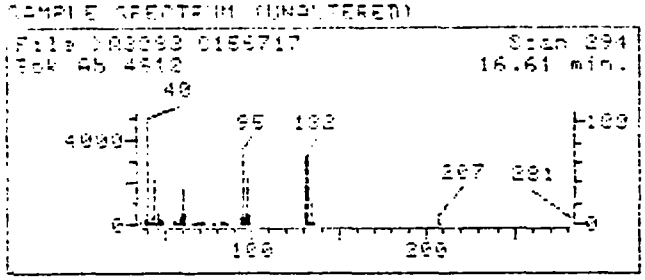
REFERENCE STANDARD SPECTRUM

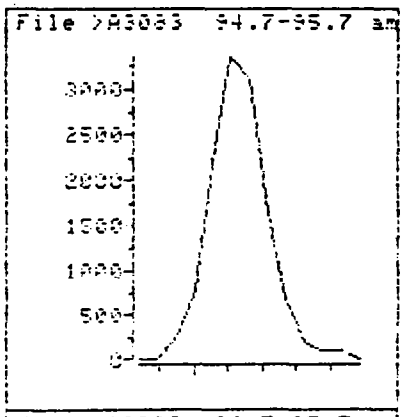


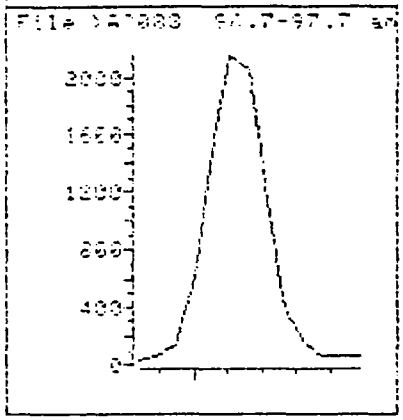
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







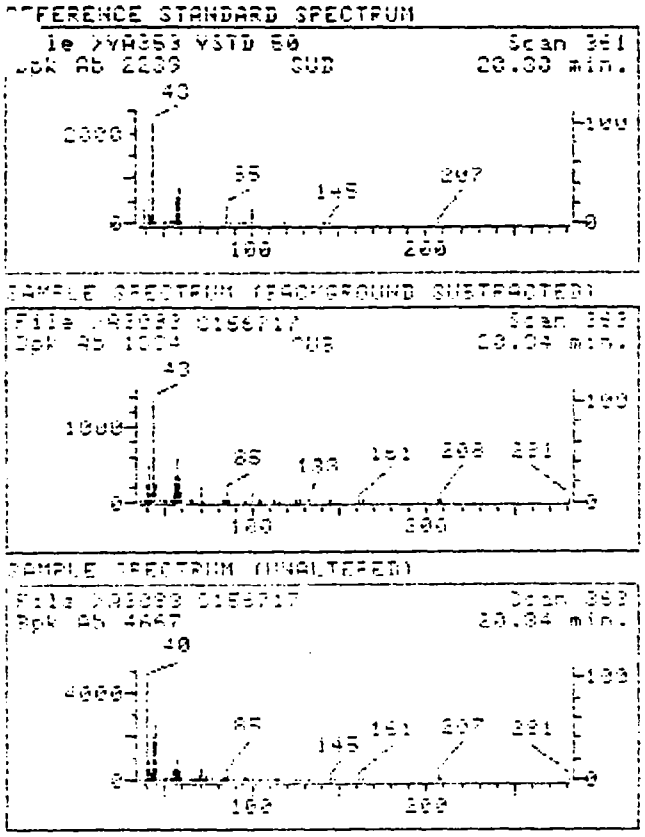
Data File: >A3083::E2
Name: L156717
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 20:14
Injected at: 940524 19:36

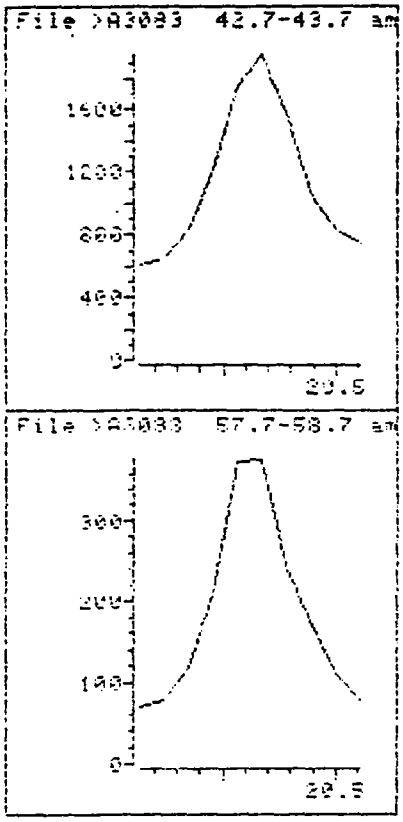
Quant Output File: ^A3083::SS

Quant ID File: IDSVCA::D5
Last Calibration: 940524 11:50

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 294
Retention Time: 16.61 min.
Quant Ion: 95.0
Area: 40296
Concentration: 23.89 UG/KG
q-value: 98

SS

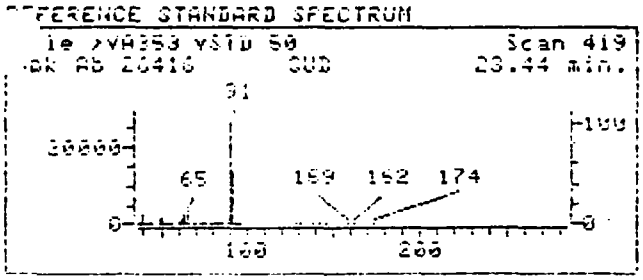


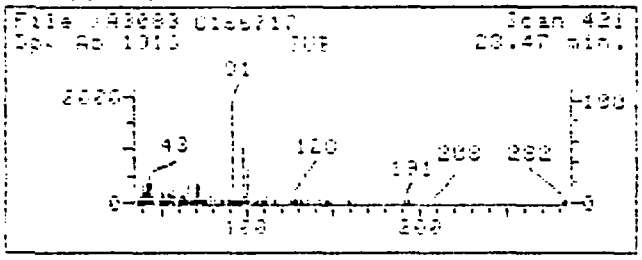


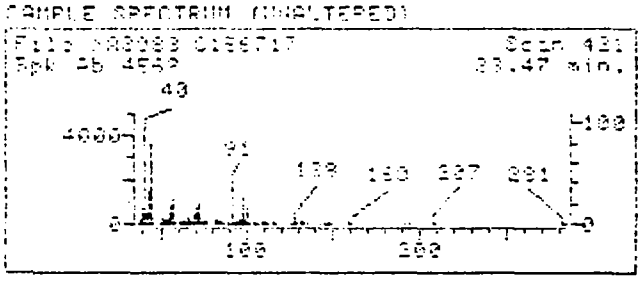
Data File: >A3083::E2 Quant Output File: ^A3083::SS
Name: C156717
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 20:14 Quant ID File: IDSVOA::D5
Injected at: 940524 19:36 Last Calibration: 940524 11:50

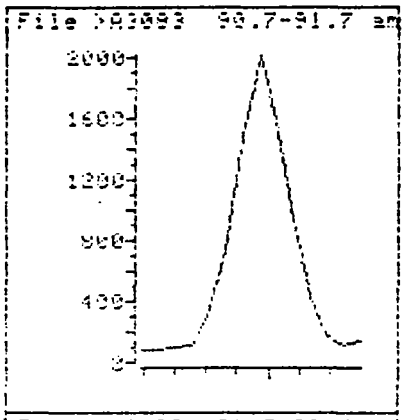
Compound No: 36
Compound Name: 4-Methyl-2-Pentanone
Scan Number: 363
Retention Time: 20.34 min.
Quant Ion: 43.0
Area: 16571
Concentration: 17.72 UG/KG
q-value: 80

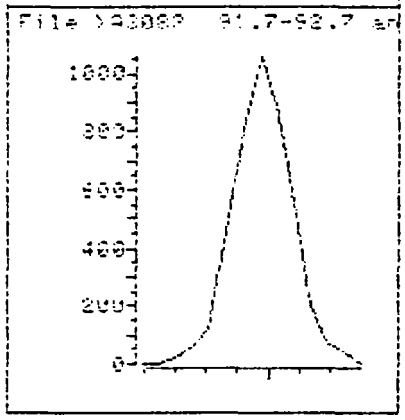
SS











Data File: >A3083::E2
Name: C156717
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 20:14
Injected at: 940524 19:36

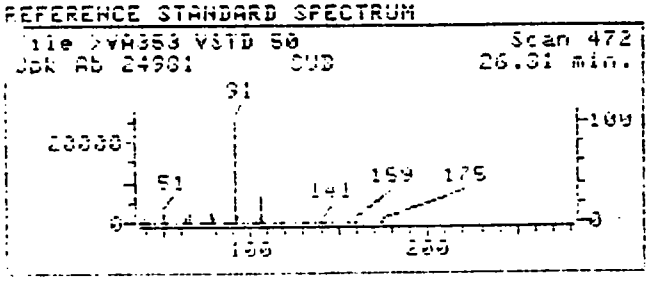
Quant Output File: ^A3083::SS

Quant ID File: IDSV0A::05
Last Calibration: 940524 11:50

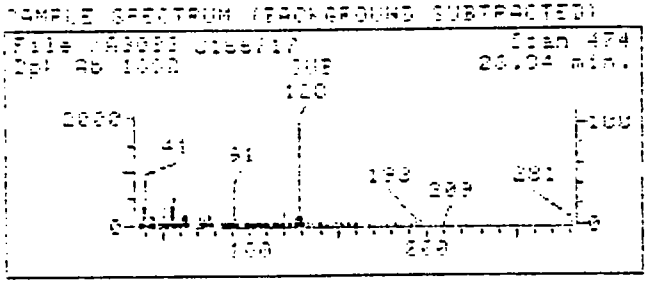
Compound No: 41
Compound Name: Toluene
Scan Number: 421
Retention Time: 23.47 min.
Quant Ion: 92.0
Area: 13866
Concentration: 7.38 UG/KG
q-value: 86

SS

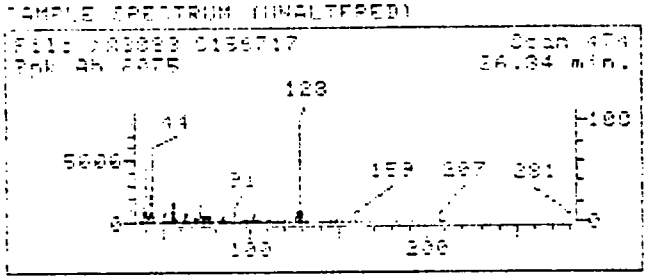
REFERENCE STANDARD SPECTRUM

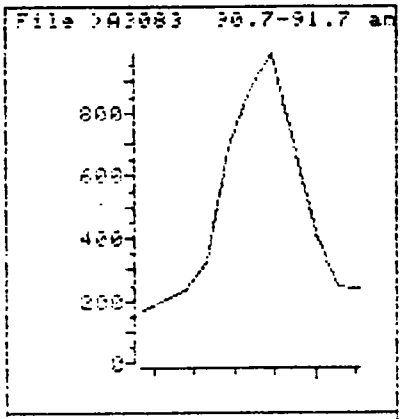


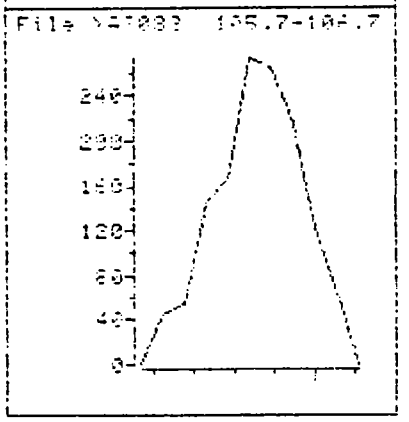
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3083::E2
Name: C156717
Misc: SG SAMPLE - HRE/BM
Quant Time: 940524 29:14
Injected at: 940524 19:36

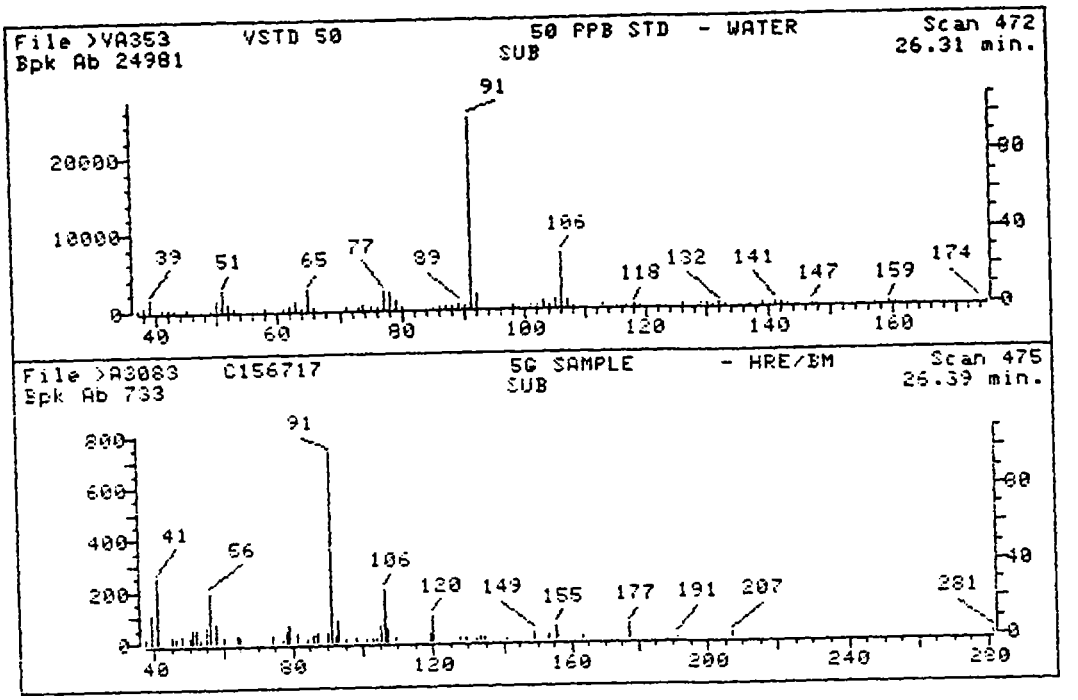
Quant Output File: ^A3083::SS

Quant ID File: IDSVOA::05
Last Calibration: 940524 11:50

Compound No: 43
Compound Name: Ethyl Benzene
Scan Number: 474
Retention Time: 26.34 min.
Quant Ion: 106.0
Area: 4388
Concentration: 3.85 UG/KG
q-value: 98

SS

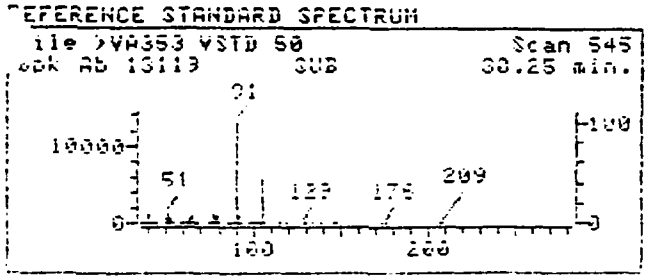
see next page

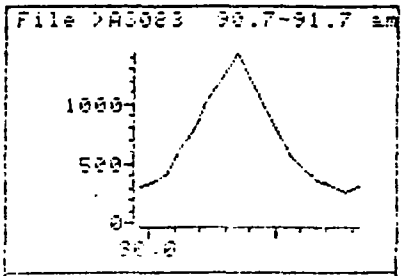


43) Ethyl Benzene RT:26.34 Area: 4388 3.85 UG/KG

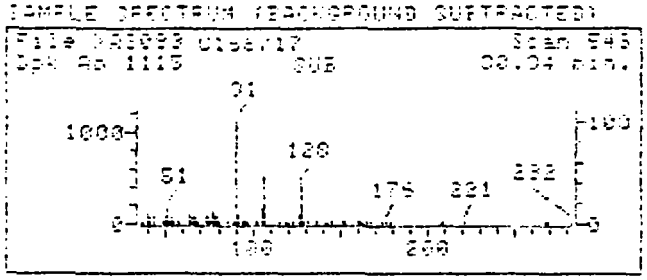
SS

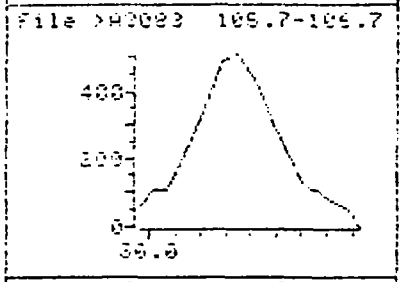
REFERENCE STANDARD SPECTRUM



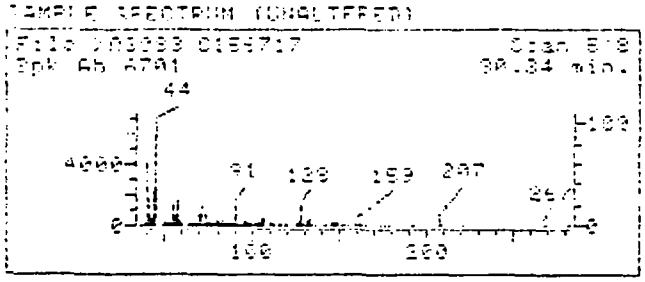


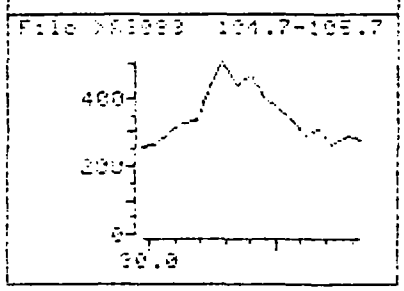
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNWALTERED)





Data File: >A3083::E2
Name: D196717
Misc: SG SAMPLE - HRE/BM
Quant Time: 940924 20:14
Injected at: 940924 19:36

Quant Output File: ^A3083::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940924 11:50

Compound No: 46
Compound Name: Total Xylenes
Scan Number: 545
Retention Time: 30.34 min.
Quant Ion: 106.0
Area: 12111
Concentration: ~~9.97~~ 10.78 UG/KG
q-value: 83

SKS

QUANT REPORT

Operator ID: [illegible]
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Misc: PG SAMPLE - PRE/BM

Quant Prm: 4 Quant Time: [illegible]
Injected at: [illegible]
Dilution Factor: [illegible]

OK ✓
SS
5/25/94

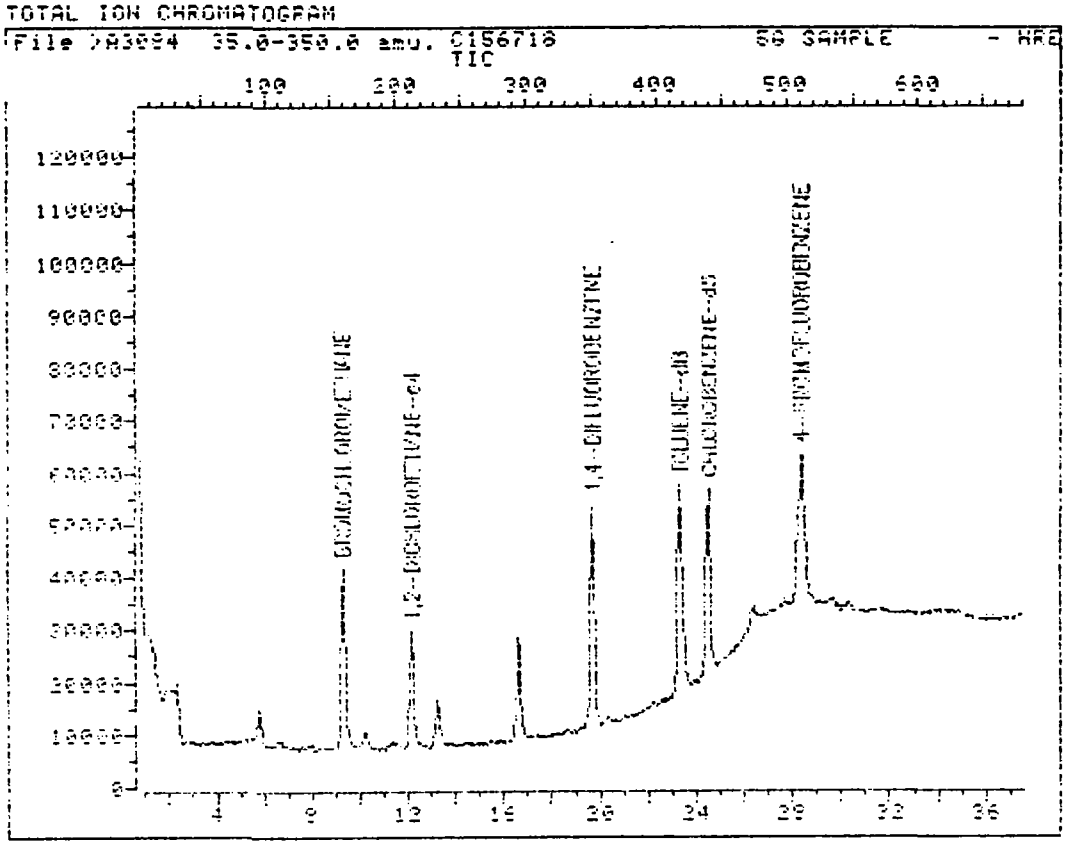
[illegible]
Title: [illegible] FILE FOR VOLATILE SOILS [illegible]
Last Calibration: [illegible]

	Compound	R.T.	Units	Area	Conc	Units	S
[illegible]	[illegible]	9.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Methylene Chloride	5.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Acetone	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Ethyl Benzene	16.41	[illegible]	[illegible]	2.57	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.44	[illegible]	[illegible]
[illegible]	Total Xylenes	[illegible]	[illegible]	[illegible]	5.[illegible]	[illegible]	SS

[illegible]

001016

TOTAL ION CHROMATOGRAM

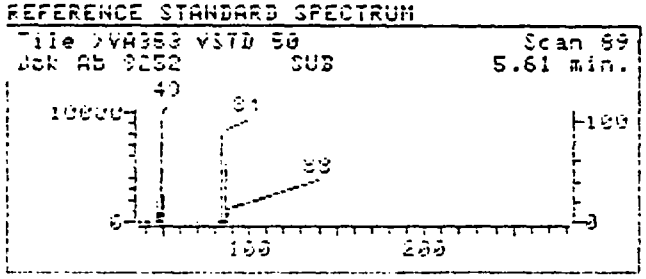


Data File: >A3084::E2 Quant Output File: ^A3084::SS
Name: C156718
Misc: 5G SAMPLE - HRE/SM

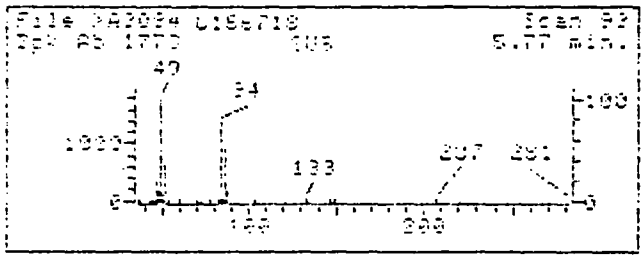
Id File: 1USWCA::D9
Title: QUANTITATION FILE FOR VOLATILE SOILS SC/MSD-A
Last Calibration: 940524 11:50

Operator ID: USER8
Quant Time: 940524 20:59
Injected at: 940524 20:20

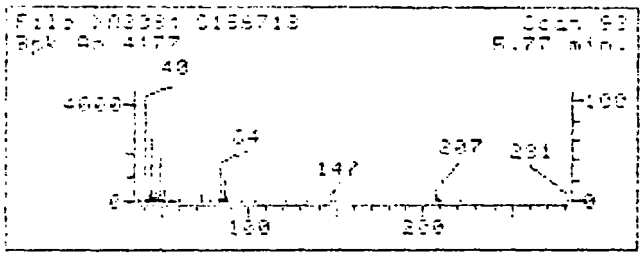
REFERENCE STANDARD SPECTRUM

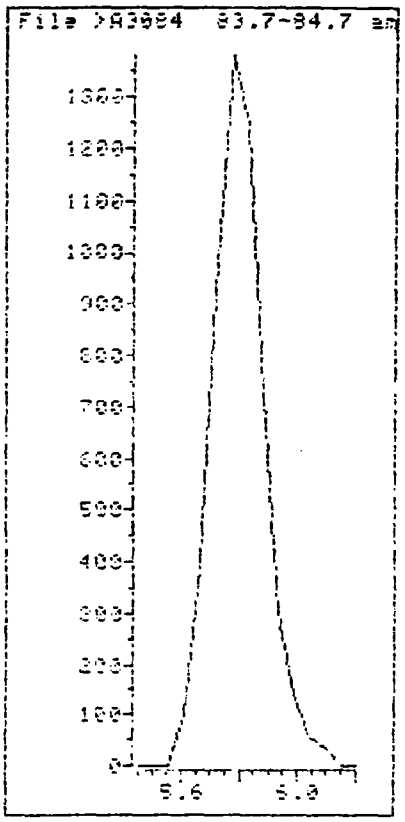


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



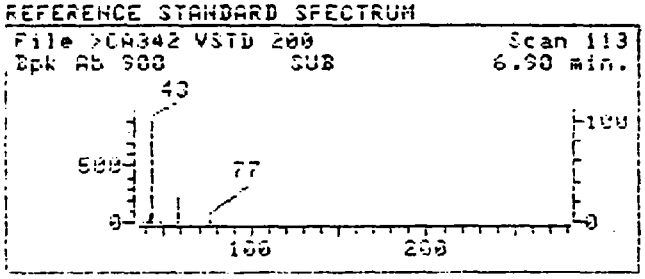


Data File: >A3084::E2 Quant Output File: ^A3084::SS
Name: C156718
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 20:59 Quant ID File: IDSVOA::05
Injected at: 940524 20:20 Last Calibration: 940524 11:50

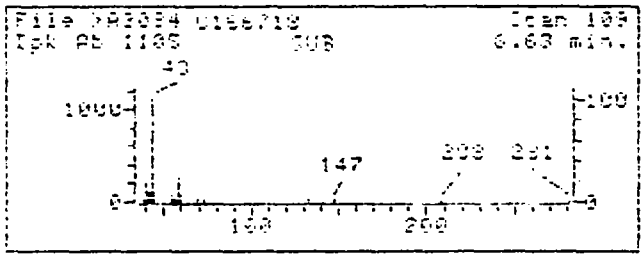
Compound No: 2
Compound Name: Methylene Chloride
Scan Number: 93
Retention Time: 5.77 min.
Quant Ion: 84.0
Area: 17195
Concentration: 12.80 UG/KG
q-value: 100

SS

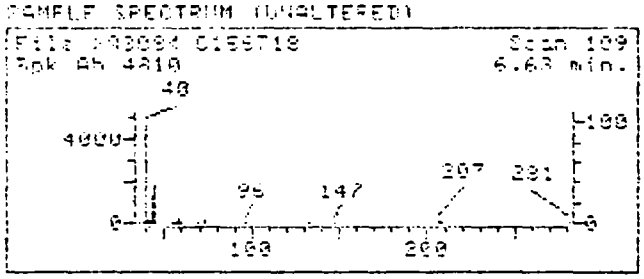
REFERENCE STANDARD SPECTRUM

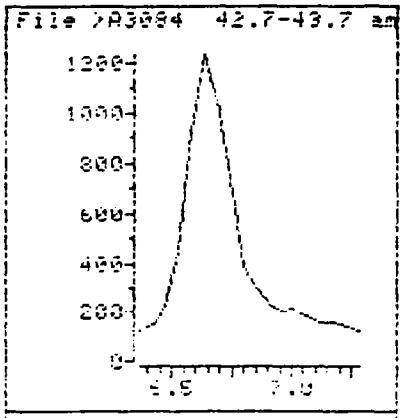


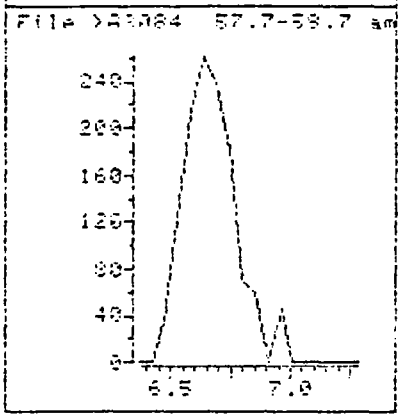
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3084::E2
Name: C156718
Misc: 5G SAMPLE - PRE/BM
Quant Time: 940524 20:59
Injected at: 940524 20:20

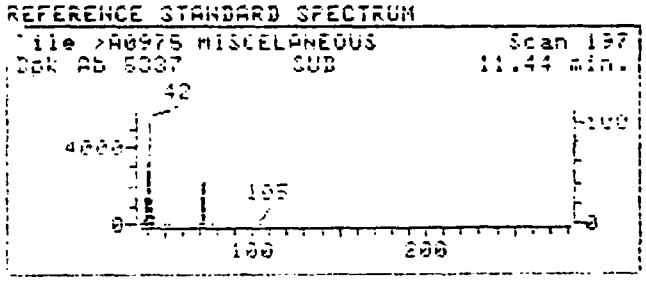
Quant Output File: ^A3084::SS

Quant ID File: IDSV0A::D5
Last Calibration: 940524 11:50

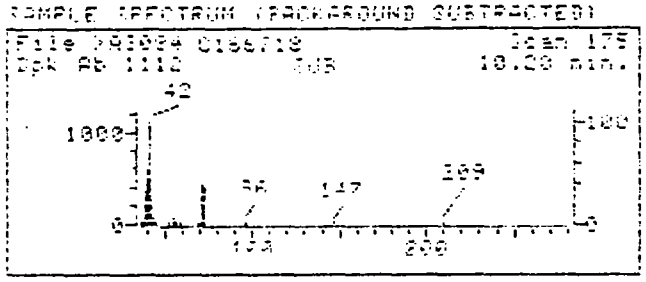
Compound No: 8
Compound Name: Acetone
Scan Number: 109
Retention Time: 6.63 min.
Quant Ion: 43.0
Area: 15355
Concentration: 47.46 UG/KG
q-value: 83

SKS

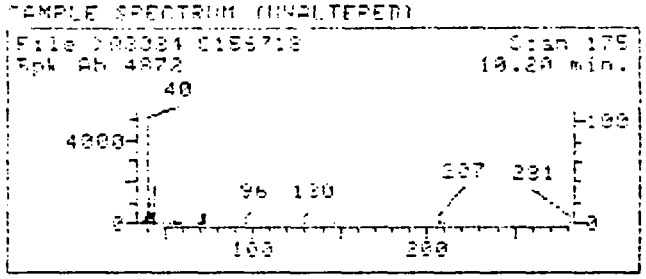
REFERENCE STANDARD SPECTRUM

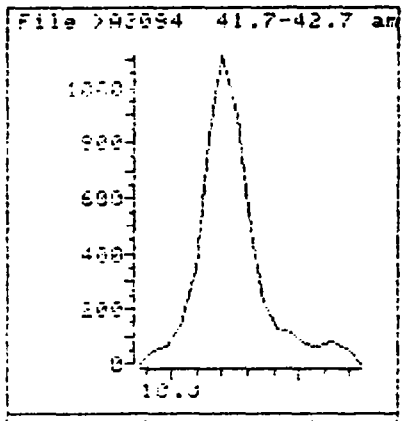


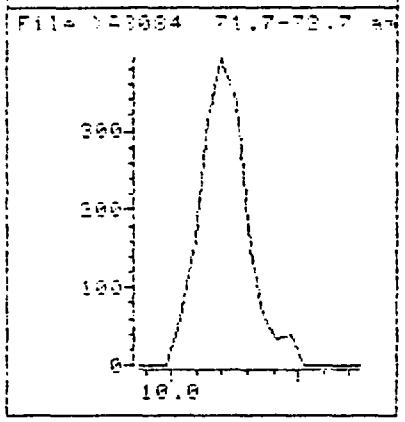
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3084::E2
Name: 0156718
Misc: SG SAMPLE - HRE/BM
Quant Time: 940524 20:59
Injected at: 940524 20:20

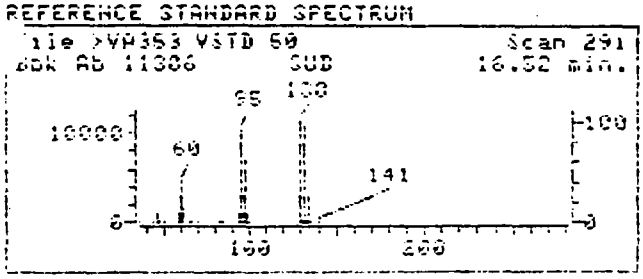
Quant Output File: ^A3084::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940524 11:50

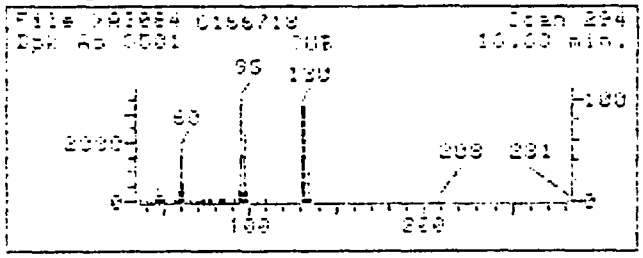
Compound No: 15
Compound Name: Tetrahydrofuran
Scan Number: 175
Retention Time: 10.20 min.
Quant Ion: 42.0
Area: 15115
Concentration: 40.92 UG/KG
q-value: 92

SS

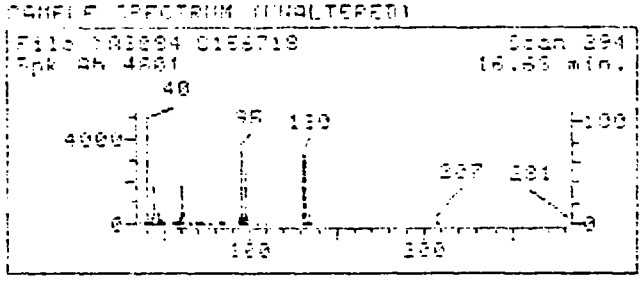
REFERENCE STANDARD SPECTRUM

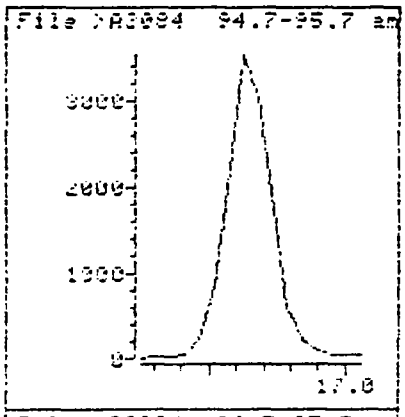


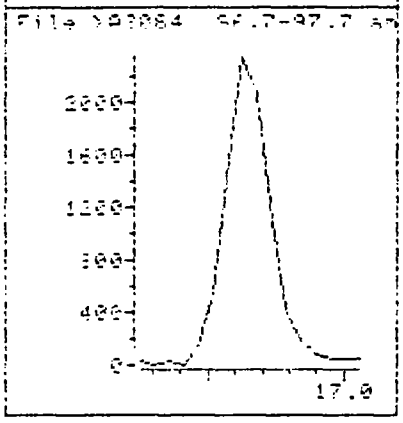
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNSUBTRACTED)







Data File: >A3084::E2
Name: 0156718
Misc: 5G SAMPLE - PRE/BM
Quant Time: 940524 23:59
Injected at: 940524 20:20

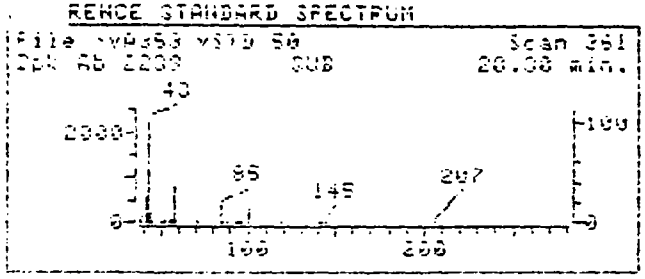
Quant Output File: ^A3084::SS

Quant ID File: IDSUQA::D5
Last Calibration: 940524 11:50

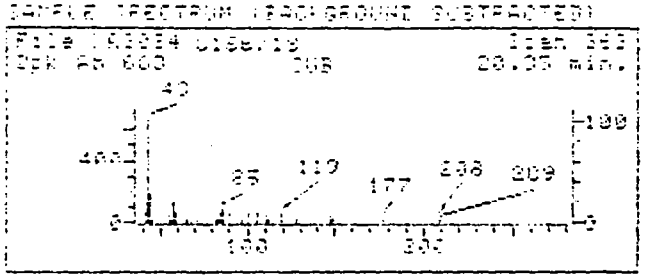
Compound No: 28
Compound Name: Trichloroethene
Scan Number: 294
Retention Time: 16.63 min.
Quant Ion: 95.0
Area: 41784
Concentration: 23.92 UG/KG
q-value: 97

SS

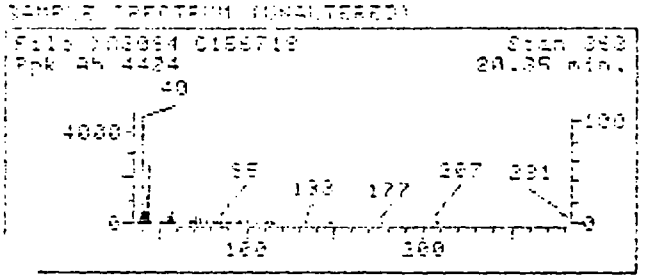
REHCE STANDARD SPECTRUM

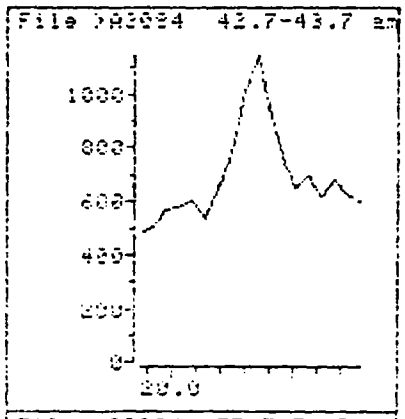


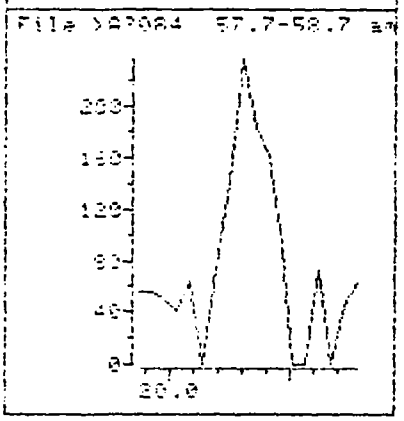
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNSUBTRACTED)



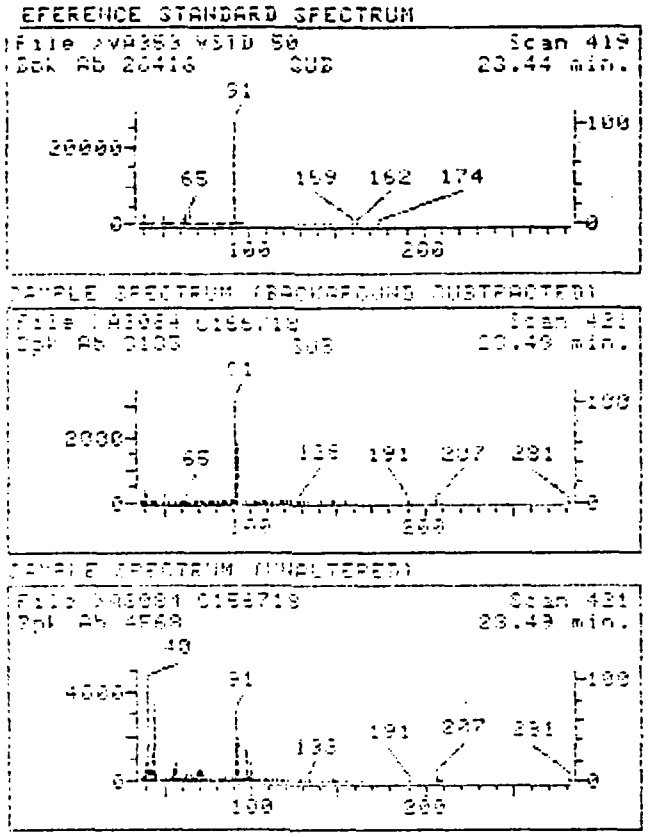


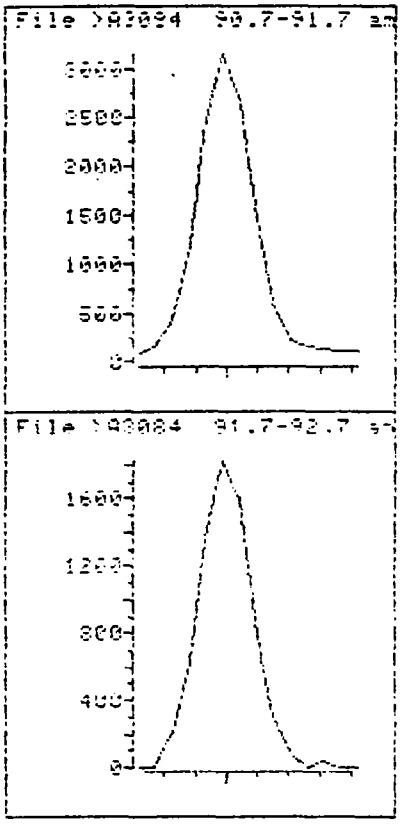


Data File: ^A3084::52 Quant Output File: ^A3084::55
Name: 0156718
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940524 23:59 Quant ID File: IOSUOA::05
Injected at: 940524 20:20 Last Calibration: 940524 11:50

Compound No: 46
Compound Name: 4-Methyl-2-Pentanone
Scan Number: 363
Retention Time: 20.35 min.
Quant Ion: 43.0
Area: 12333
Concentration: 12.12 UG/KG
q-value: 74

SKS





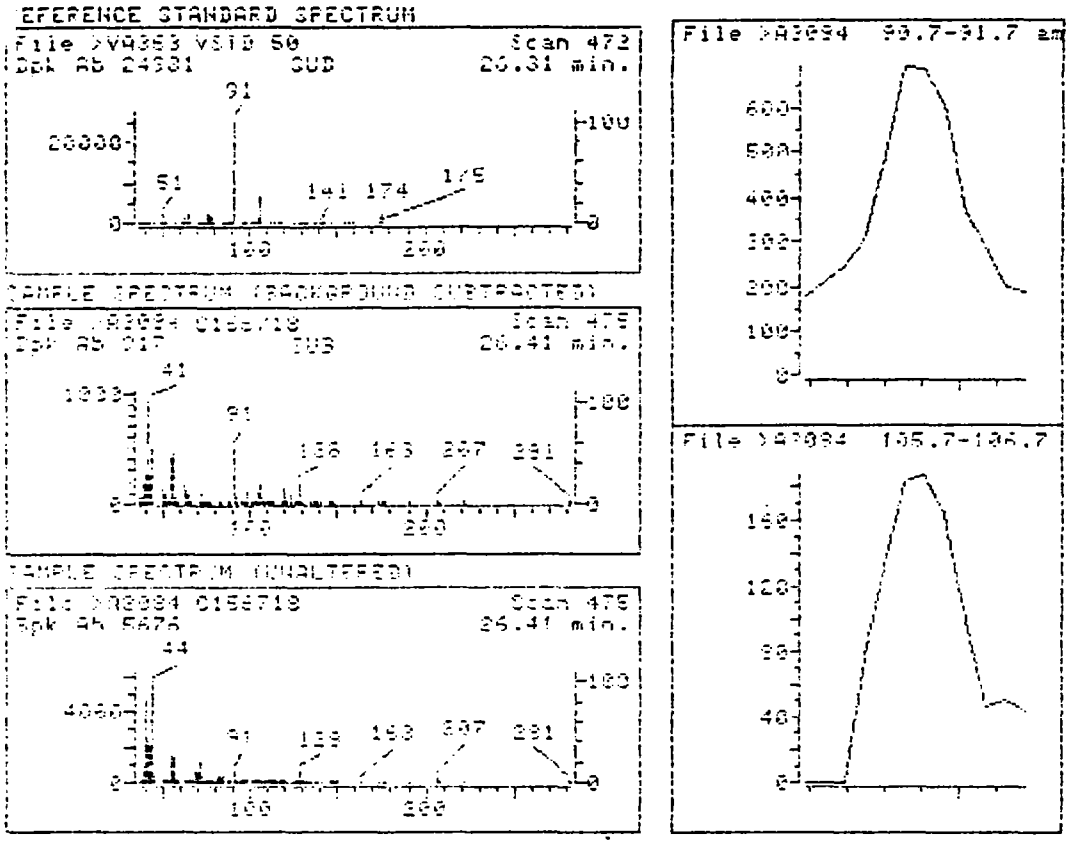
Data File: >A3084::E2
Name: C196718
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 20:59
Injected at: 940524 20:20

Quant Output File: ^A3084::SS

Quant ID File: IDSU0A::06
Last Calibration: 940524 11:50

Compound No: 41
Compound Name: Toluene
Scan Number: 421
Retention Time: 23.49 min.
Quant Ion: 92.0
Area: 22267
Concentration: 10.89 UG/KG
q-value: 93

SKS



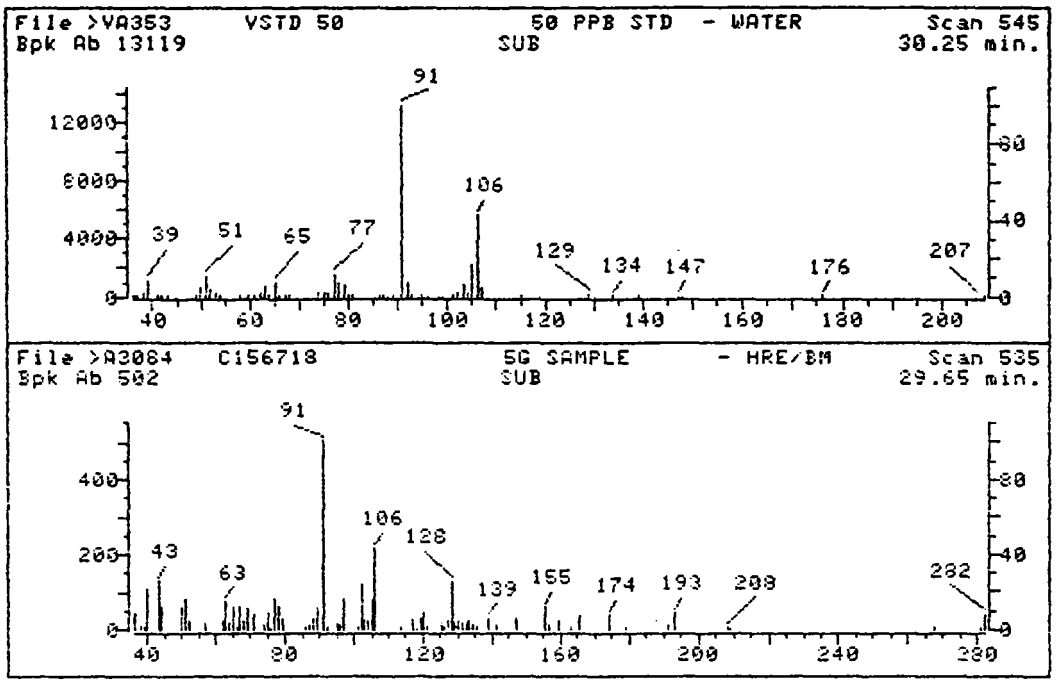
Data File: >A3084::E2
Name: C156718
Misc: 5G SAMPLE - PPE/BM
Quant Time: 940524 20:59
Injected at: 940524 20:20

Quant Output File: ^A3084::SS

Quant ID File: IDSUOA::05
Last Calibration: 940524 11:50

Compound No: 45
Compound Name: Ethyl Benzene
Scan Number: 475
Retention Time: 26.41 min.
Quant Ion: 106.0
Area: 3190
Concentration: 2.57 UG/KG
q-value: 91

SKS



46) Total Xylenes RT:29.65 Area: 7286M 5.29 UG/KG

✓

SS

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940524 21:43
Output File: [illegible]::D1 Injected at: 940524 21:05
Data File: [illegible]::E4 Dilution Factor: 1.00000
Name: [illegible]
Misc: [illegible] SAMPLE - HRE/BM

[illegible] File: [illegible]::D5
Title: QUANTITATION FILE FOR VOLATILE SHIELD [illegible]
Last Calibration: 940524 [illegible]

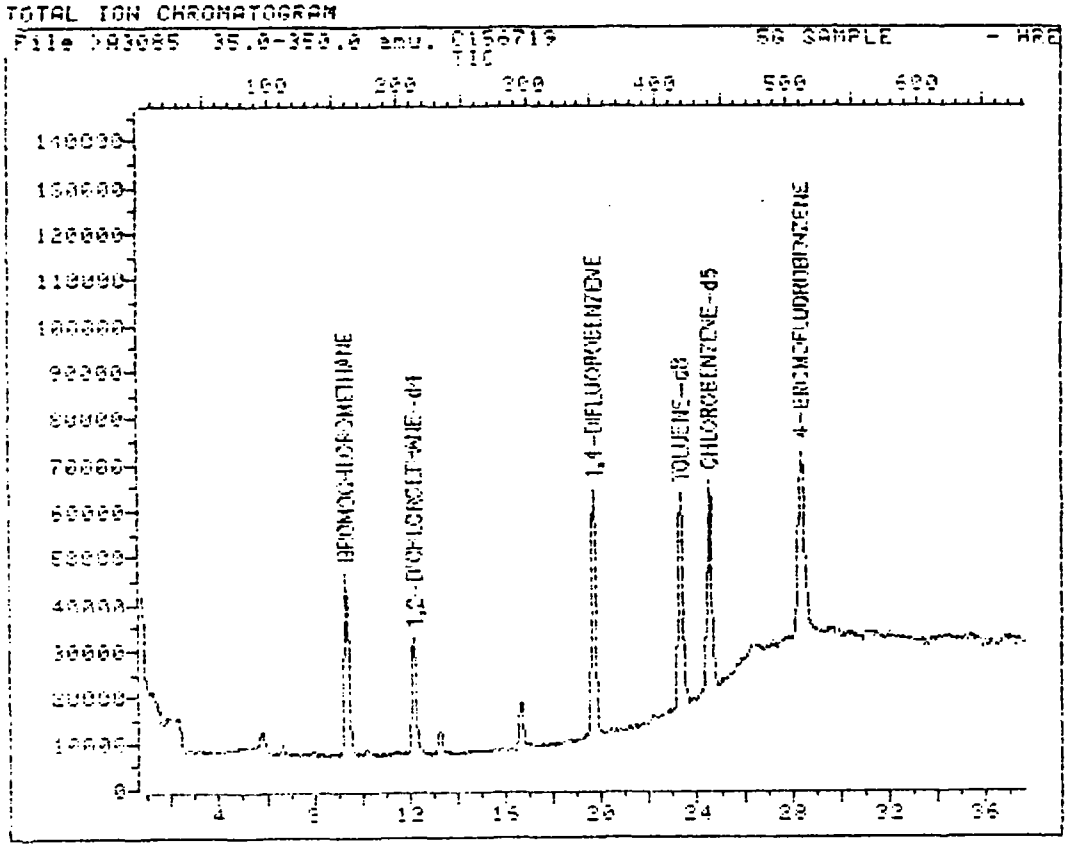
OK
SAS 5/25/94

	Compound	R.T.	Ion	Area	Conc	Units	Q
[illegible]	*[illegible]	9.34	128.0	65170	50.00	UG/KG	100
7)	Methylene Chloride	5.77	84.0	10192	6.56	UG/KG	100
[illegible]	Acetone	6.64	43.0	16277	43.52	UG/KG	92
[illegible]	1,2-DICHLOROETHANE-[illegible]	12.70	65.0	105593	44.96	UG/KG	93
[illegible]	*1,4-[illegible]	19.71	114.0	250371	50.00	UG/KG	88
28)	Trichloroethene	16.48	95.0	23297	10.87	UG/KG	98
[illegible]	*[illegible]	24.5[illegible]	117.0	170217	50.00	UG/KG	99
40)	TOLUENE-[illegible]	23.43	98.0	199896	55.06	UG/KG	96
41)	Toluene	23.49	92.0	8567	3.37	UG/KG	83
44)	4-BROMOFLUOROBENZENE	28.46	95.0	132578	48.16	UG/KG	100

Compound is [illegible]

001026

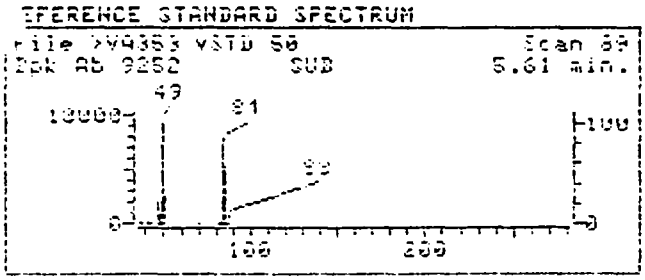
TOTAL ION CHROMATOGRAM

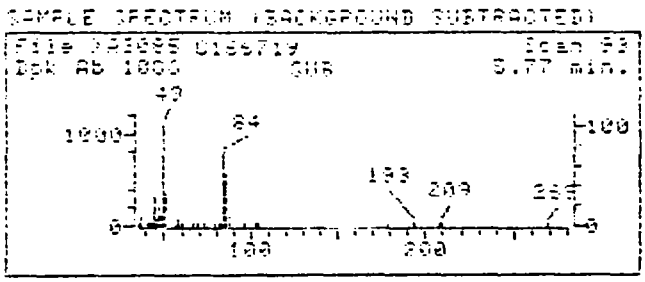


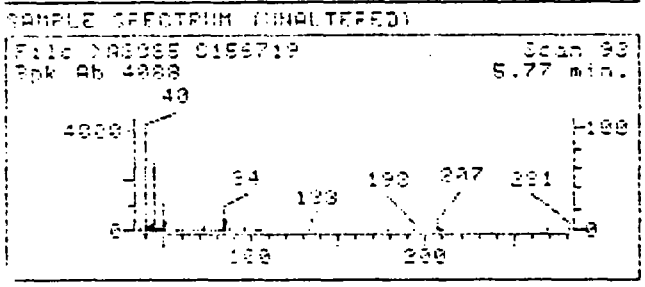
Data File: >A3085::E4 Quant Output File: ^A3085::SS
Name: C156719
Misc: 5G SAMPLE - HPE/BM

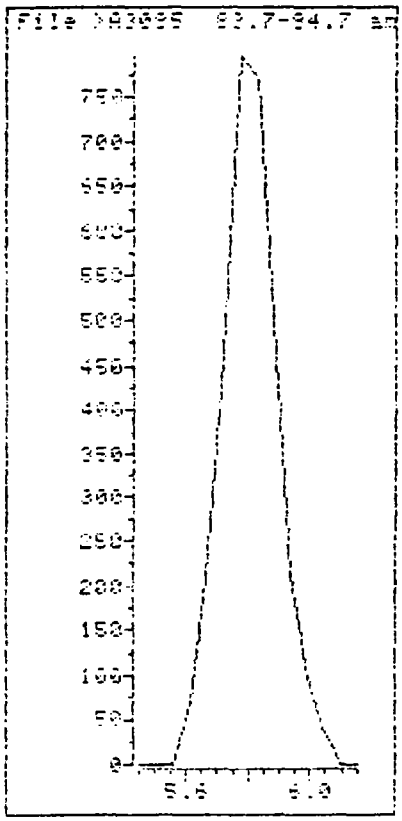
Id File: 105VOA::U5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

Operator ID: USER8
Quant Time: 940524 21:43
Injected at: 940524 21:05







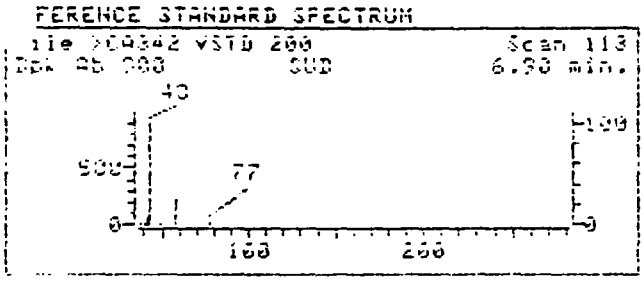


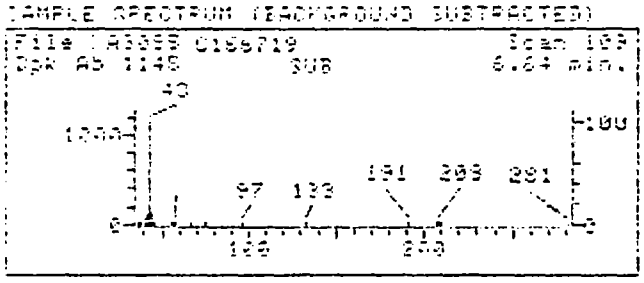
Data File: >A3085::E4
Name: C156719
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 21:43
Injected at: 940524 21:05

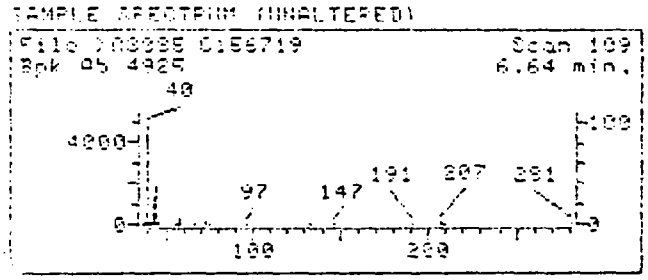
Quant Output File: ^A3085::SS
Quant ID File: 108UUA::09
Last Calibration: 940524 11:50

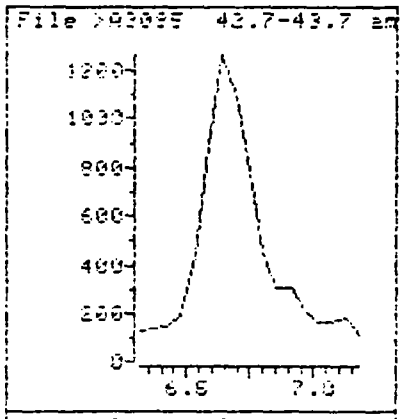
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 93
Retention Time: 5.77 min.
Quant Ion: 84.0
Area: 10192
Concentration: 6.56 UG/KG
q-value: 100

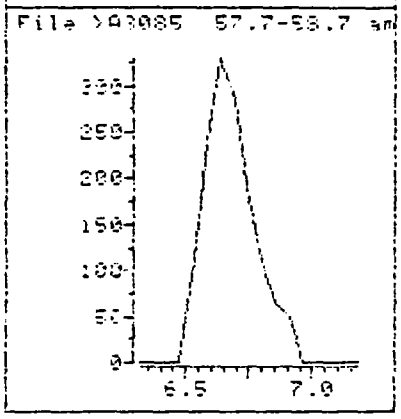
SS











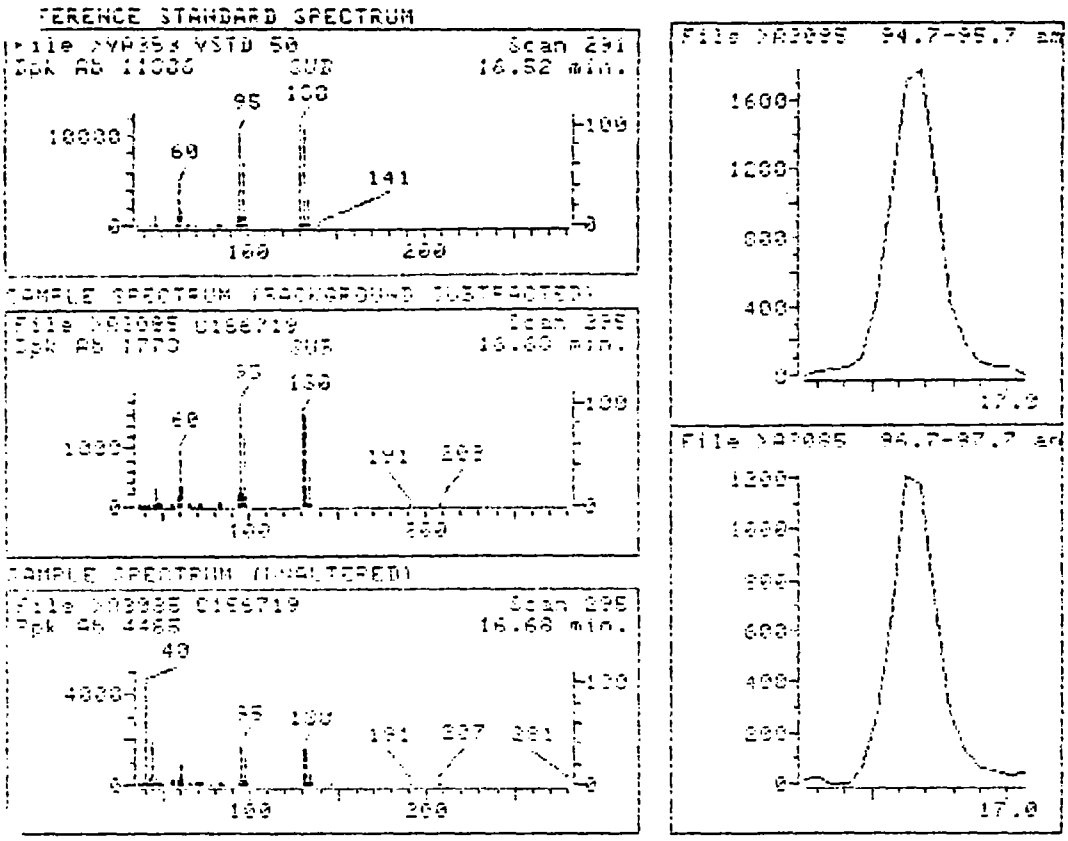
Data File: >A3085::E4
Name: C156719
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940524 21:43
Injected at: 940524 21:05

Quant Output File: ^A3085::SS

Quant ID File: IDSVOA::05
Last Calibration: 940524 11:50

Compound No: 8
Compound Name: Acetone
Scan Number: 109
Retention Time: 6.64 min.
Quant Ion: 43.0
Area: 16277
Concentration: 43.52 UG/KG
q-value: 92

SKS



Data File: >A3085::E4
Name: C156719
Misc: SG SAMPLE - PPE/SM
Quant Time: 940524 21:43
Injected at: 940524 21:05

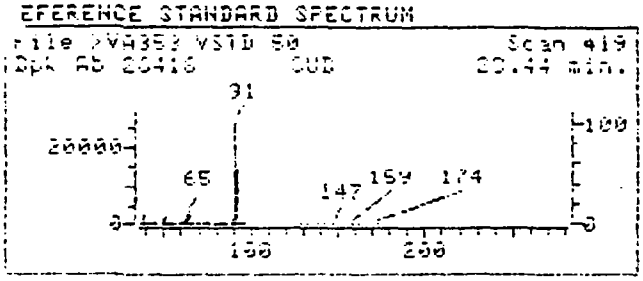
Quant Output File: ^A3085::SS

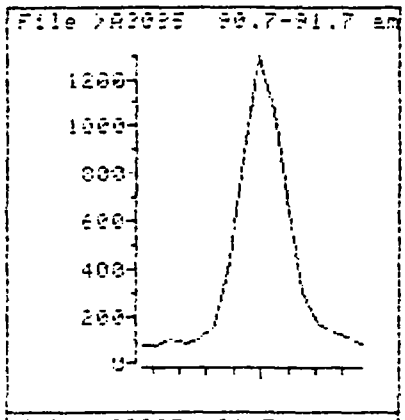
Quant ID File: 10SUBA::D5
Last Calibration: 940524 11:50

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 295
Retention Time: 16.68 min.
Quant Ion: 95.0
Area: 23297
Concentration: 10.87 UG/KG
q-value: 98

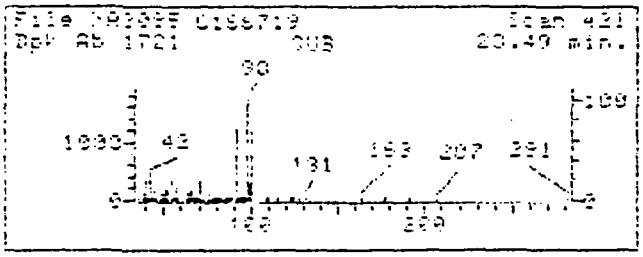
85

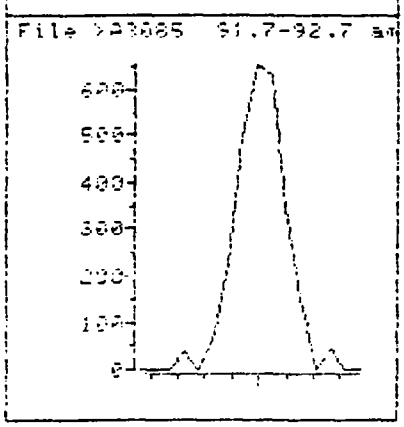
EFERENCE STANDARD SPECTRUM



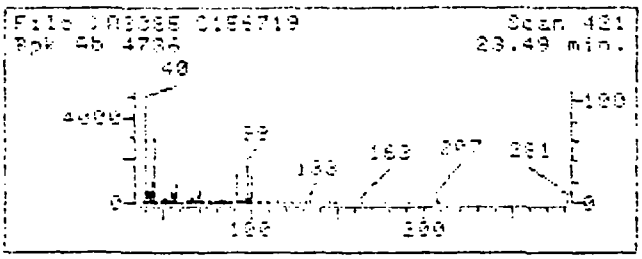


AMPLE SPECTRUM (BACKGROUND SUBTRACTED)





AMPLE SPECTRUM (UNSUBTRACTED)



Data File: >A3085::E4
Name: C156719
Misc: 5G SAMPLE - HHE/HM
Quant Time: 940524 21:43
Injected at: 940524 21:05

Quant Output File: ^A3085::S5

Quant ID File: IDSUDA::D5
Last Calibration: 940524 11:42

Compound No: 41
Compound Name: Toluene
Scan Number: 421
Retention Time: 23.49 min.
Quant Ion: 92.0
Area: 9567
Concentration: 3.37 UG/KG
q-value: 83

35

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940624 22:28
Output File: [illegible] Injected at: 940624 21:49
Data File: [illegible]::E4 Dilution Factor: 1.00000
Name: C156710
Misc: 5G SAMPLE - 4RE/8M

MX Proven
OK JS 5/25/94

ID File: [illegible]
Title: [illegible] FILE FOR VOLATILE BILLS 8D/M50-8
Last Calibrated on: 940624 [illegible]

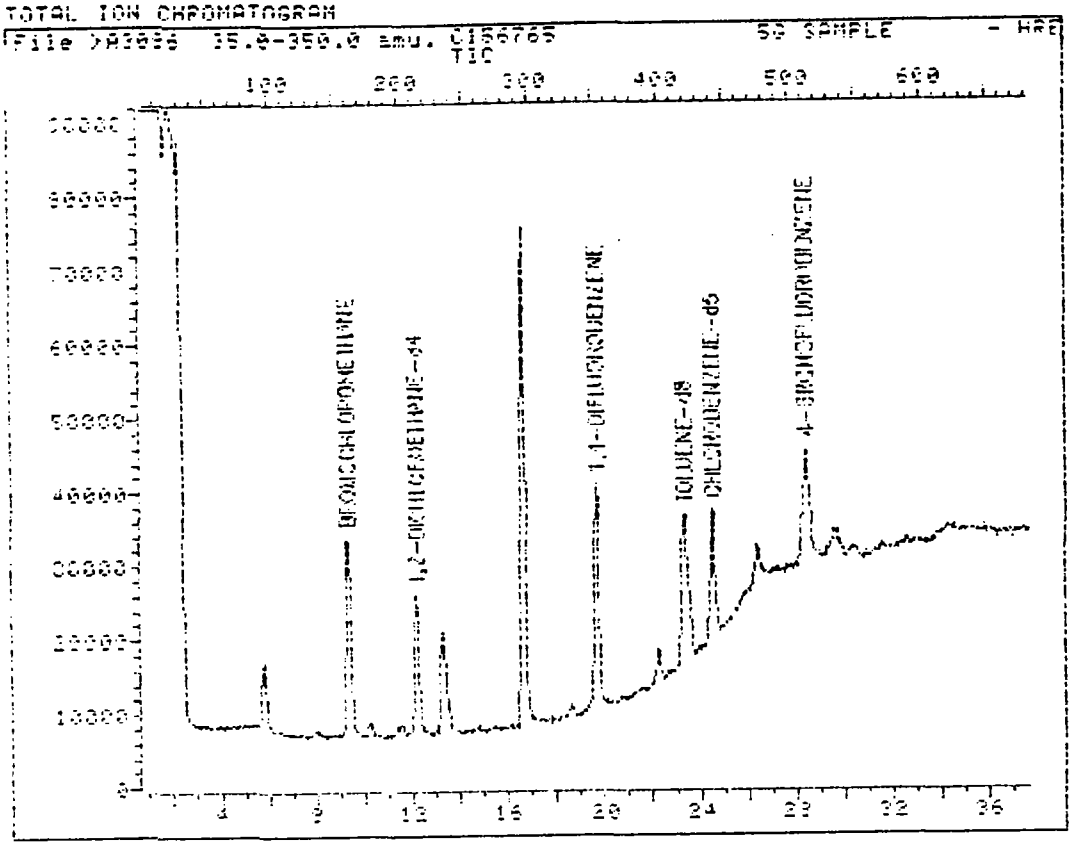
	Compound	R.T.	Chan	Area	Conc	Units	Q
[illegible]	*[illegible]	9.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Methylene Chloride	5.92	84.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2.99	111.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Tetrahydrofuran	10.19	42.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	17.19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	*1,4-Dichlorobenzene	19.00	174.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	13.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Trichloroethene	16.47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	*[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Tetrachloroethene	22.94	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Toluene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	96.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SKS

* Compound is [illegible]

001032

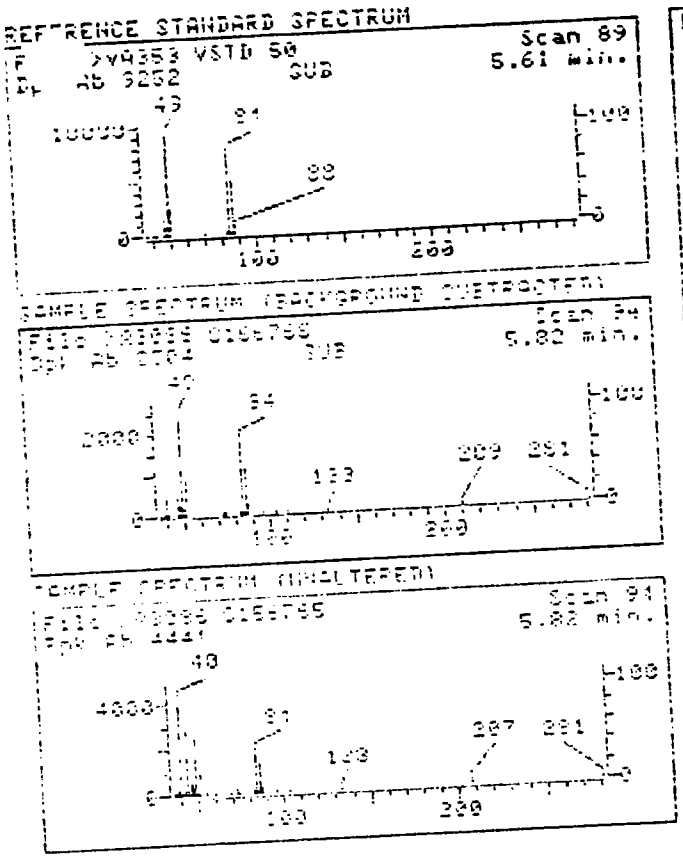
TOTAL ION CHROMATOGRAM

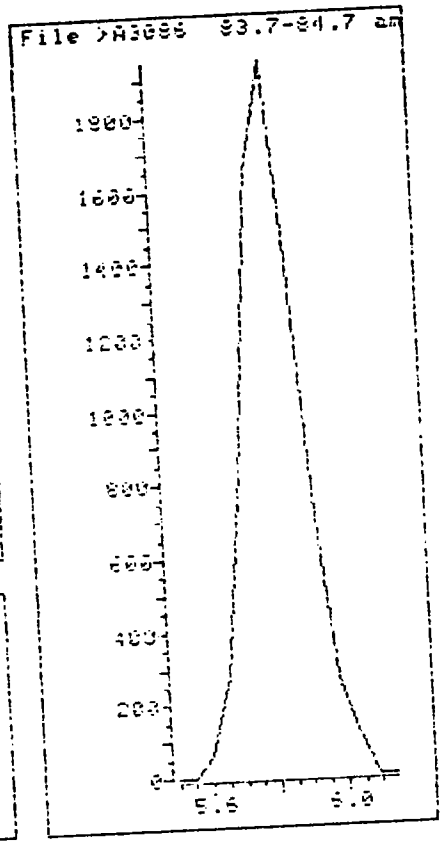


Data File: >A3086::E4 Quant Output File: ^A3086::SS
Name: C156~~7~~710
Misc: 5G SAMPLE - HRE/BM

Id File: 1DSV0A::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

Operator ID: USER8
Quant Time: 940524 22:28
Injected at: 940524 21:49





Data File: >A3086::E4
Name: C156~~[illegible]~~710
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 22:28
Injected at: 940524 21:49

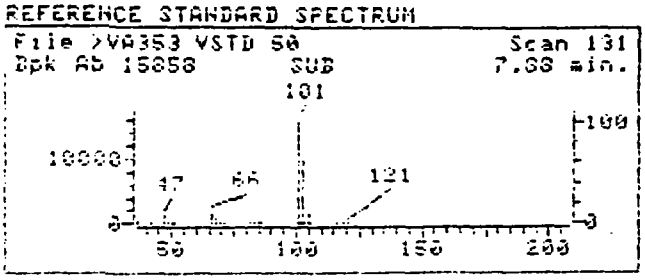
Quant Output File: ^A3086::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940524 11:50

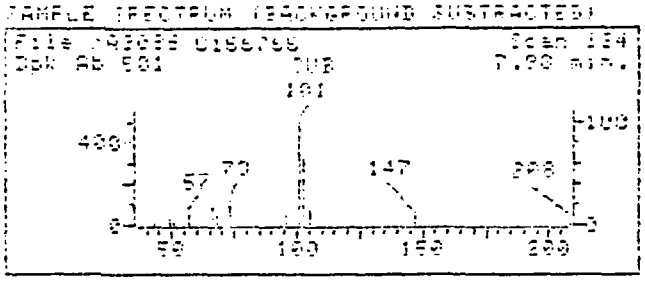
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 94
Retention Time: 5.82 min.
Quant Ion: 84.0
Area: 23505
Concentration: 21.39 UG/KG
q-value: 100

SS

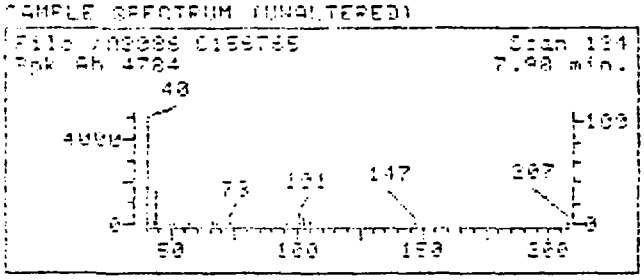
REFERENCE STANDARD SPECTRUM

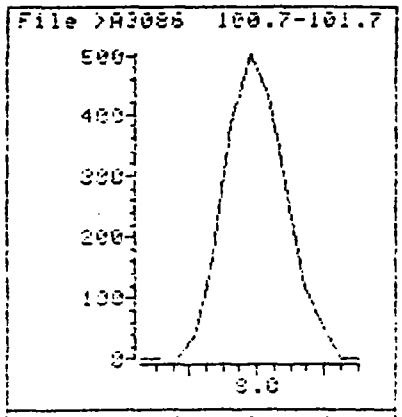


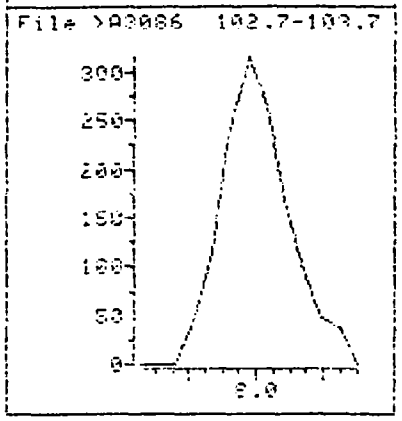
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







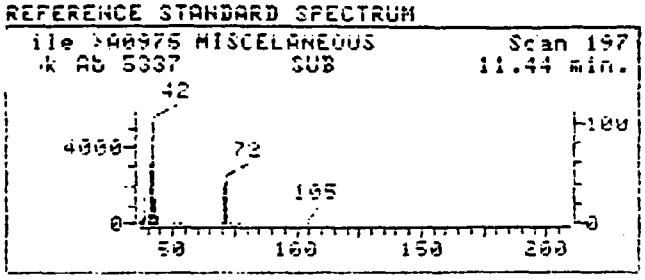
Data File: >A3086::E4
Name: C156~~765~~ 710
Mian: 5G SAMPLE - HRE/BM
Quant Time: 940524 22:28
Injected at: 940524 21:49

Quant Output File: ^A3086::SS
Quant ID File: IDSVOA::D5
Last Calibration: 940524 11:50

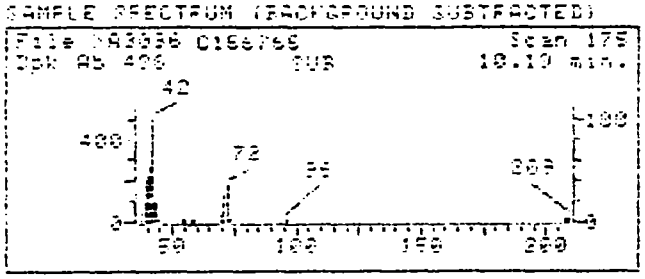
Compound No: 12
Compound Name: Trichlorofluoromethane
Scan Number: 134
Retention Time: 7.98 min.
Quant Ion: 101.0
Area: 6457
Concentration: 2.81 UG/KG
q-value: 85

SS

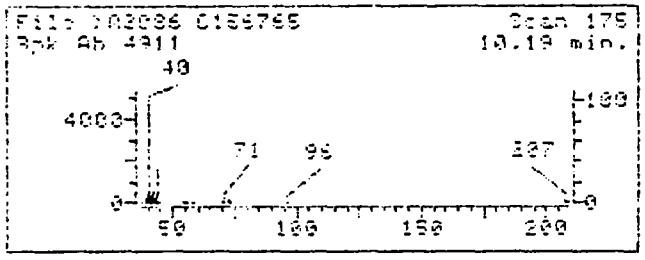
REFERENCE STANDARD SPECTRUM

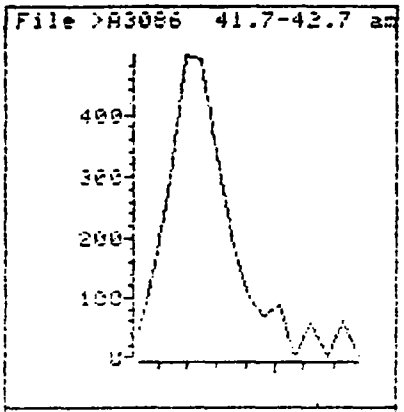


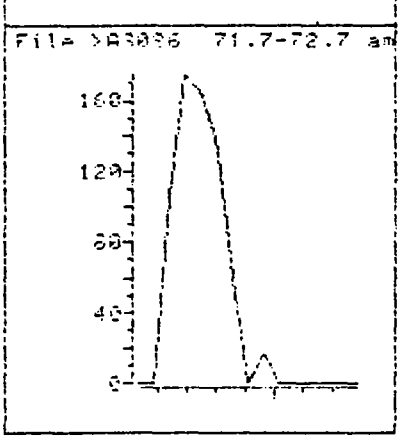
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3086::E4
Name: C156~~765~~710
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 22:28
Injected at: 940524 21:49

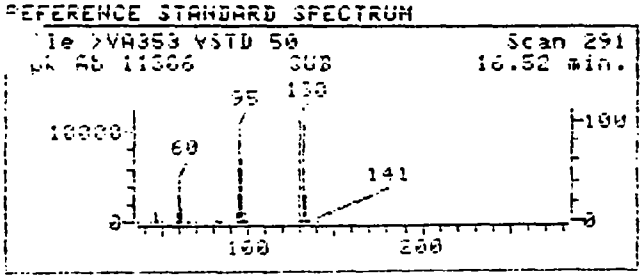
Quant Output File: ^A3086::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940524 11:50

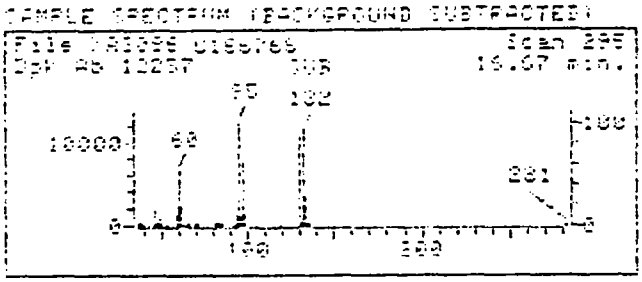
Compound No: 15
Compound Name: Tetrahydrofuran
Scan Number: 175
Retention Time: 10.19 min.
Quant Ion: 42.0
Area: 7568
Concentration: 25.05 UG/~~KG~~
q-value: 92

SRS

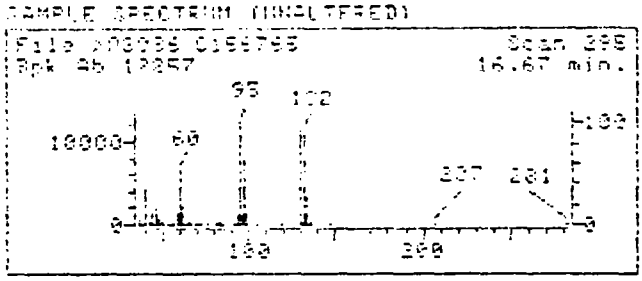
REFERENCE STANDARD SPECTRUM

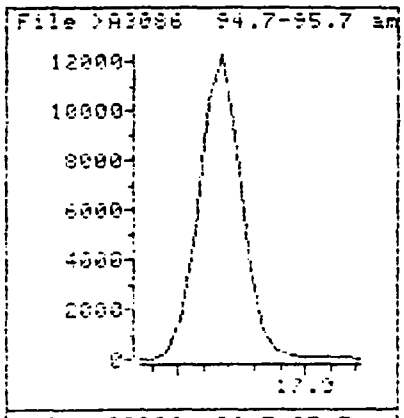


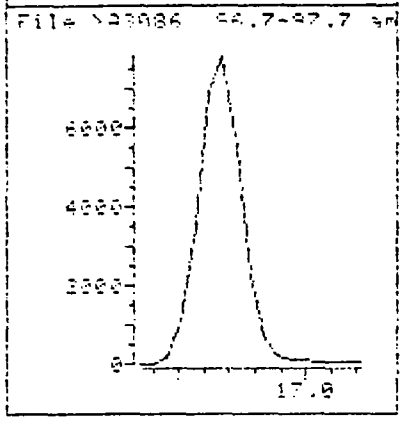
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNAULTERED)







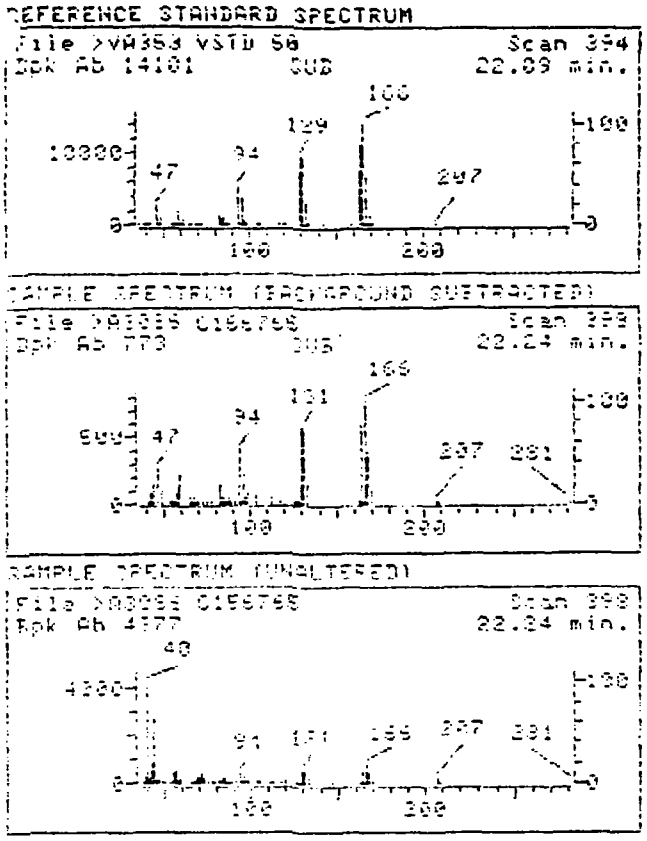
Data File: >A3086::E4
Name: C156~~[illegible]~~710
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940524 22:28
Injected at: 940524 21:49

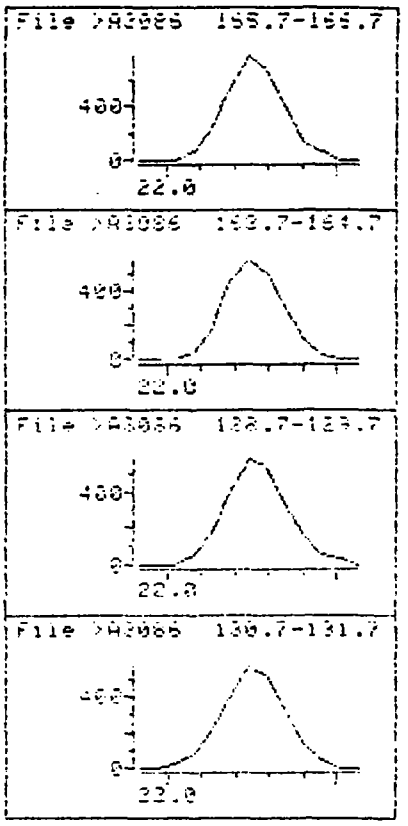
Quant Output File: ^A3086::SS

Quant ID File: IDSUQA::09
Last Calibration: 940524 11:50

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 295
Retention Time: 16.67 min.
Quant Ion: 95.0
Area: 142826
Concentration: 114.46 UG/KG
q-value: 98

SS





Data File: >A3086::E4
Name: C156~~765~~710
Misc: 5G SAMPLE - HPE/SM
Quant Time: 940524 22:28
Injected at: 940524 21:49

Quant Output File: ^A3086::SS

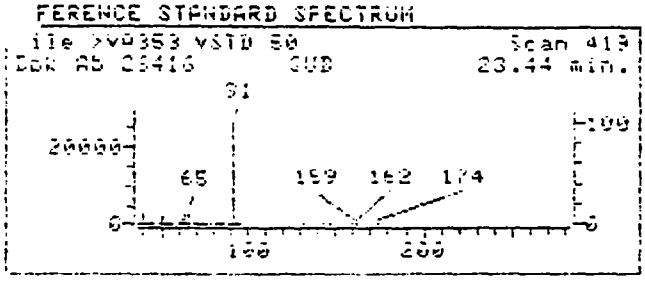
Quant ID File: IDSVOA::D5
Last Calibration: 940524 11:50

Compound No: 38
Compound Name: Tetrachloroethene
Scan Number: 398
Retention Time: 22.24 min.
Quant Ion: 164.0
Area: 7266
Concentration: 11.86 UG/KG
q-value: 98

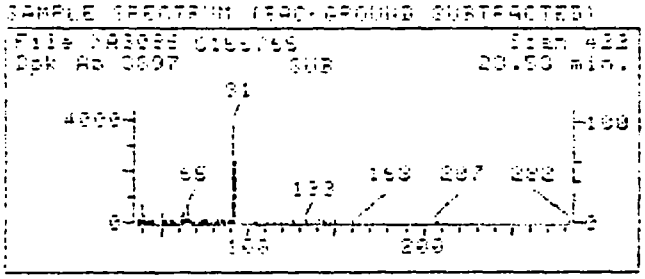
SKS

001039

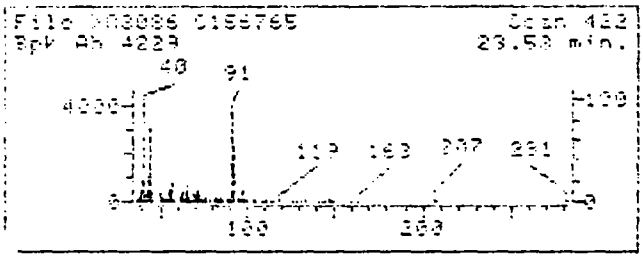
FERENCE STANDARD SPECTRUM

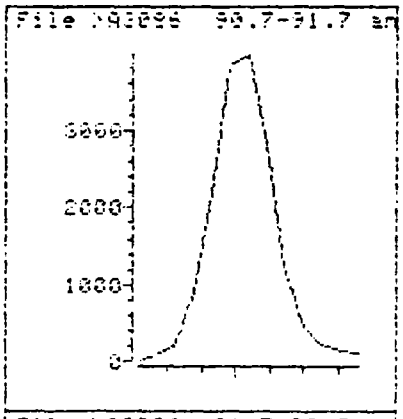


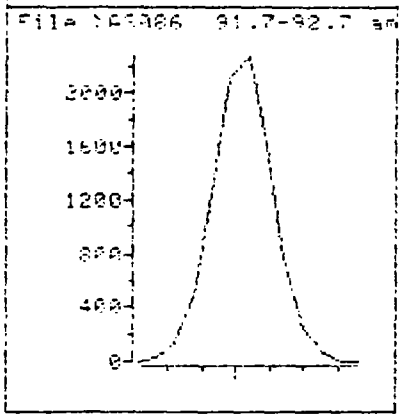
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







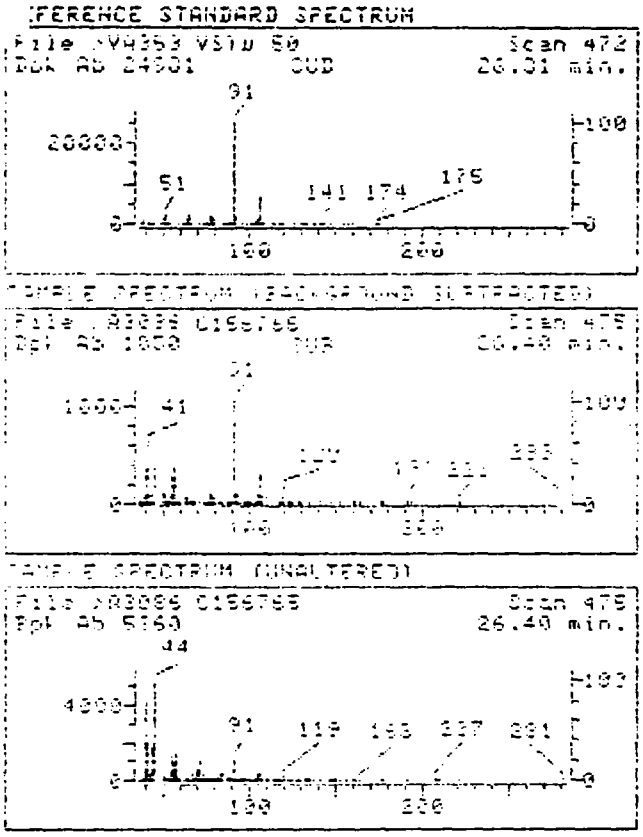
Data File: >A3086::E4
Name: C156~~[illegible]~~710
Misc: 5G SAMPLE - HHE/BM
Quant Time: 940524 22:28
Injected at: 940524 11:49

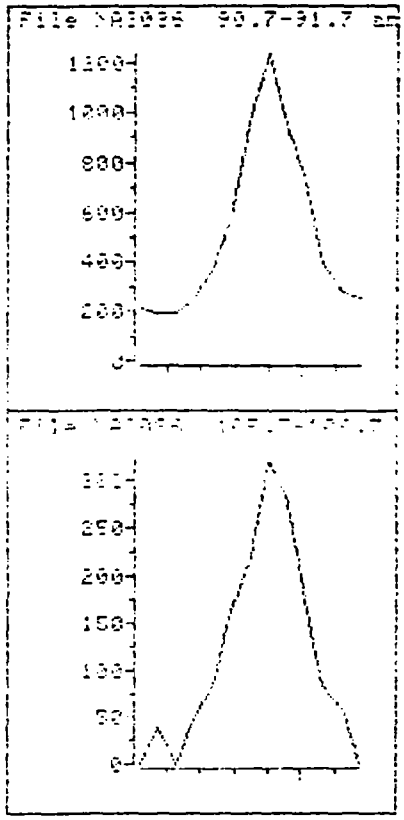
Quant Output File: ^A3086::SS

Quant ID File: IDSUOA::09
Last Calibration: 940524 11:50

Compound No: 41
Compound Name: Toluene
Scan Number: 422
Retention Time: 23.53 min.
Quant Ion: 92.0
Area: 29269
Concentration: 27.82 UG/KG
q-value: 92

SRS





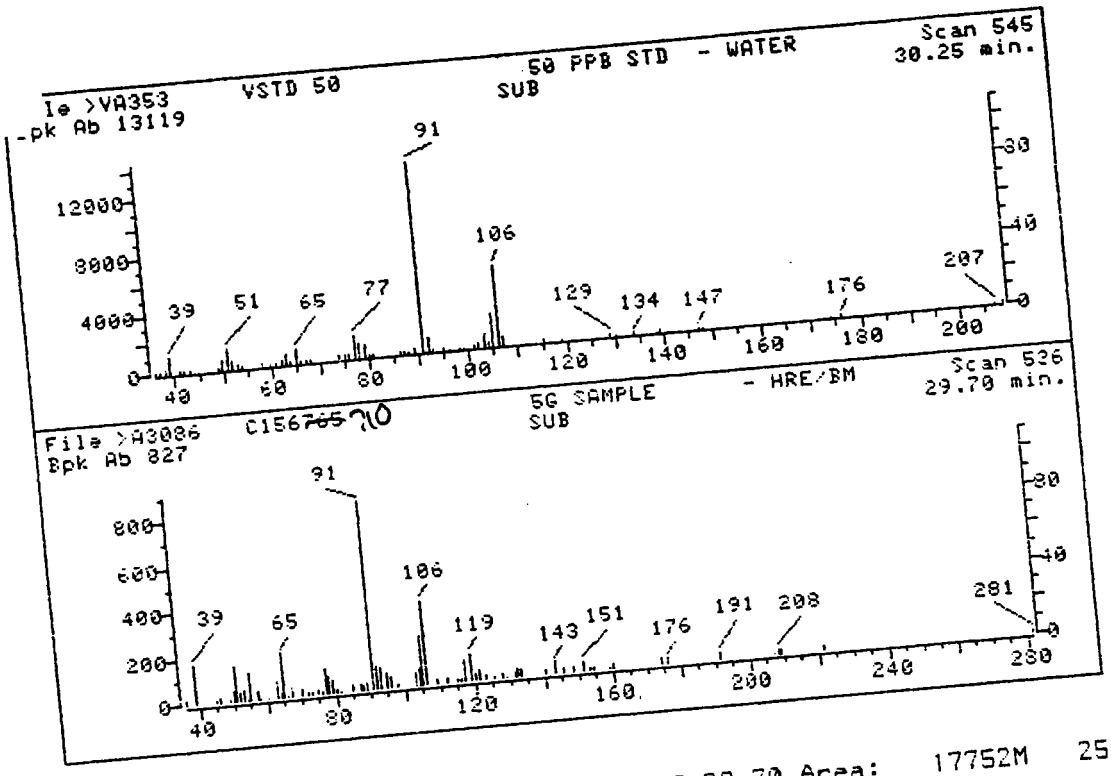
Data File: >A3086::E4
Name: C156~~765~~710
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940524 22:28
Injected at: 940524 21:49

Quant Output File: ^A3086::SS

Quant ID File: IDSVOA::05
Last Calibration: 940524 11:50

Compound No: 43
Compound Name: Ethyl Benzene
Scan Number: 475
Retention Time: 26.40 min.
Quant Ion: 106.0
Area: 4796
Concentration: 7.51 UG/KG
q-value: 89

SKS



RT:29.70 Area: 17752M 25.03 UG/KG

46) Total Xylenes

95

QUANT REPORT

Operator ID: [illegible]
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Mode: [illegible]

Quant Rev: 6 Quant Time: 940525 10:54
Injected at: 940525 10:16
Dilution Factor: 1.00000

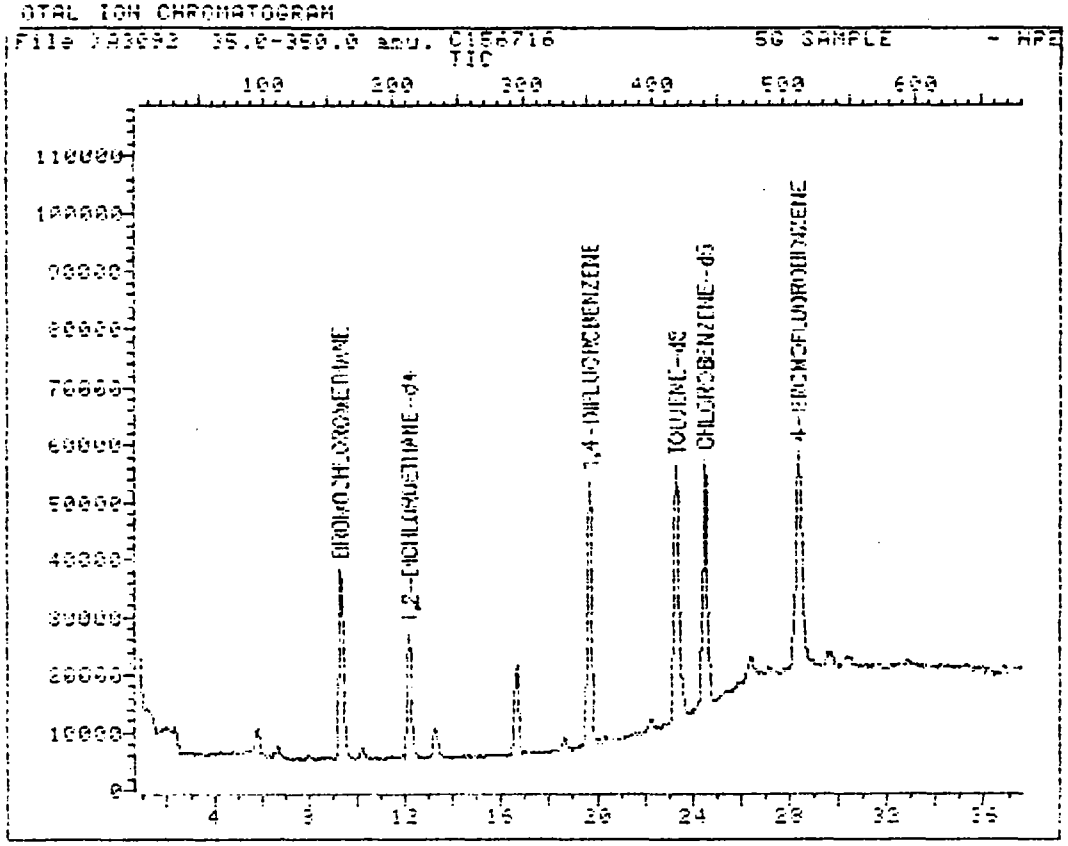
ck
GES
5/21/94

ID File: [illegible]
Title: [illegible] FOR VOLATILE SOILS [illegible]
Last Calibration: [illegible]

	Compound	R.T.	Q ion	Area	Conc	Units	Q
[illegible]	*[illegible]	9.39	178.0	57634	50.00	UG/KG	100
[illegible]	Methylene Chloride	5.91	84.0	9871	7.57	UG/KG	100
[illegible]	Acetone	6.67	43.0	15529	46.44	UG/KG	93
[illegible]	[illegible]	10.18	42.0	7442	26.91	UG/KG	99
[illegible]	[illegible]	12.19	65.0	89296	45.29	UG/KG	97
[illegible]	*[illegible]	19.69	114.0	221965	50.00	UG/KG	97
[illegible]	[illegible]	16.66	95.0	32256	18.27	UG/KG	99
[illegible]	*[illegible]	24.59	117.0	148577	50.00	UG/KG	97
[illegible]	[illegible]	20.34	43.0	5069	4.84	UG/KG	91
[illegible]	[illegible]	23.[illegible]	98.0	194693	53.51	UG/KG	94
[illegible]	[illegible]	24.47	92.0	21904	9.35	UG/KG	91
[illegible]	[illegible]	28.34	95.0	117333	47.61	UG/KG	100
[illegible]	Total Xylenes	29.63	106.0	10723M	6.74	UG/KG GB	84

* Compound is [illegible]

OTAL ION CHROMATOGRAM

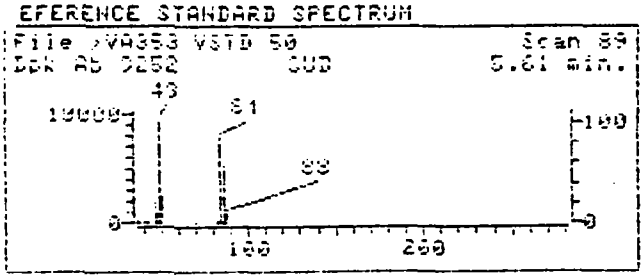


Data File: >A3092::E4 Quant Output File: ^A3092::S8
Name: C156716
Misc: 5G SAMPLE - HRE/BM

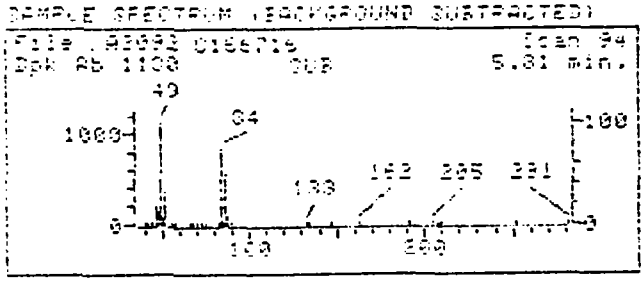
Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940525 10:34

Operator ID: USER8
Quant Time: 940525 10:54
Injected at: 940525 10:16

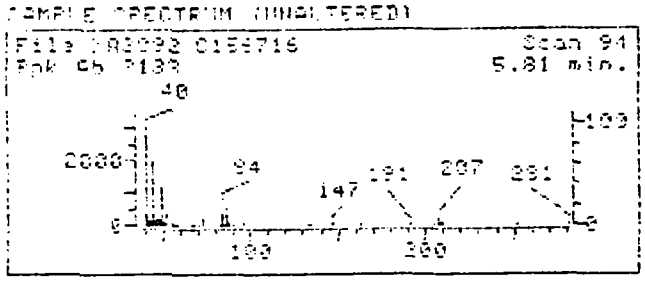
EFERENCE STANDARD SPECTRUM

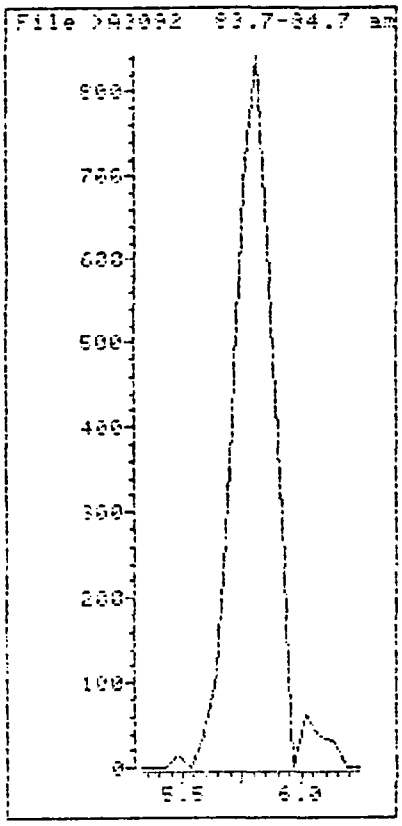


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

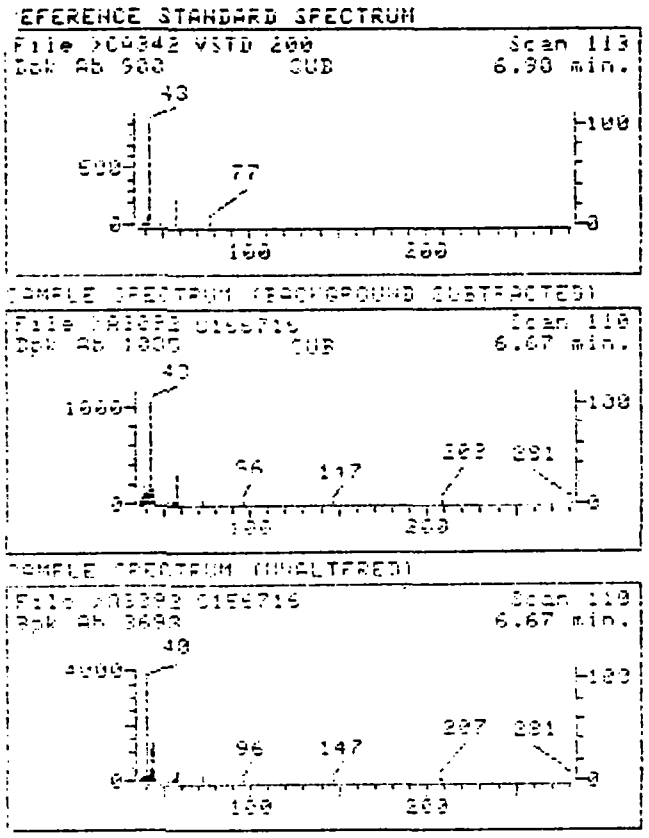


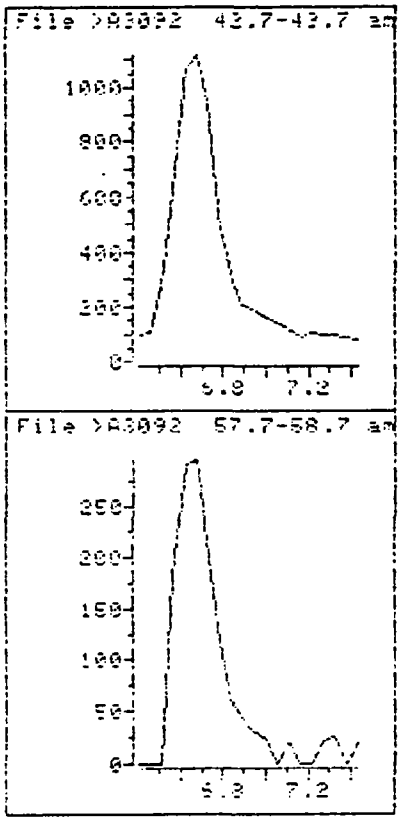


Data File: >A3092::54 Quant Output File: ^A3092::55
Name: C156716
Misc: 95 SAMPLE - PPE/PM
Quant Time: 940525 10:54 Quant ID File: IDSVOA::05
Injected at: 940525 10:16 Last Calibration: 940525 10:34

Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 94
Retention Time: 5.81 min.
Quant Ion: 84.0
Area: 9871
Concentration: 7.57 UG/KG
q-value: 100

OK
GES
5/26/94





Data File: >A3092::54
Name: C156716
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940526 10:54
Injected at: 940526 10:16

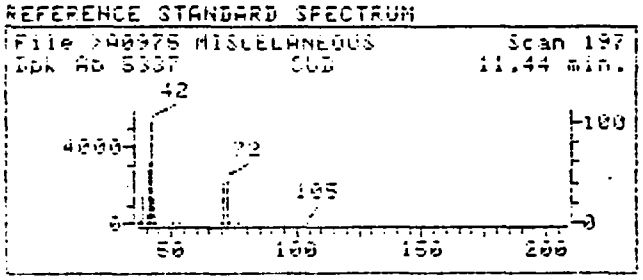
Quant Output File: ^A3092::SS

Quant ID File: IDSVOA::05
Last Calibration: 940525 10:34

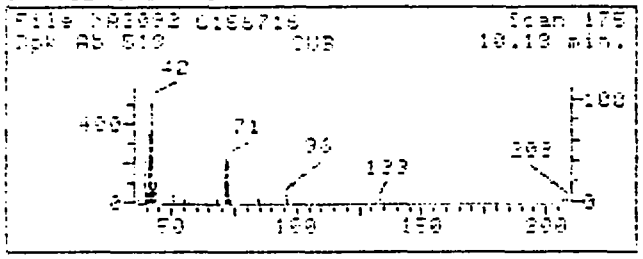
Compound No: 8
Compound Name: Acetone
Scan Number: 110
Retention Time: 6.67 min.
Quant Ion: 43.0
Area: 35528
Concentration: 46.44 UG/KG
q-value: 93

OK
GBS
5/26/94

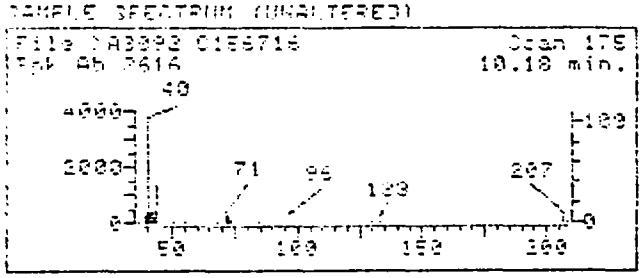
REFERENCE STANDARD SPECTRUM

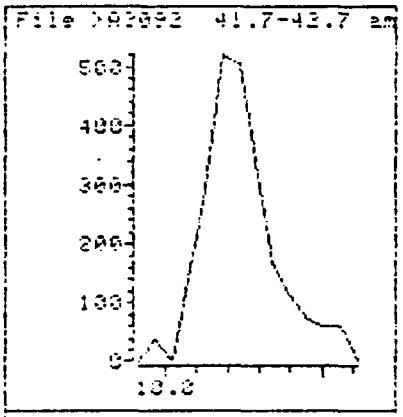


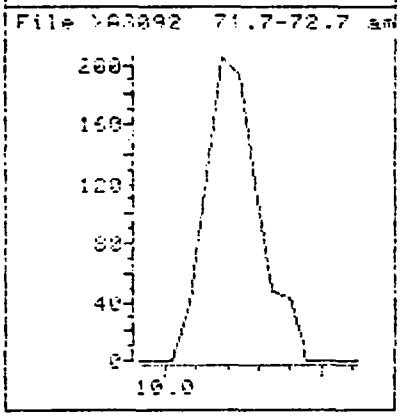
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3092::F4
Name: C156716
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940526 10:54
Injected at: 940525 10:16

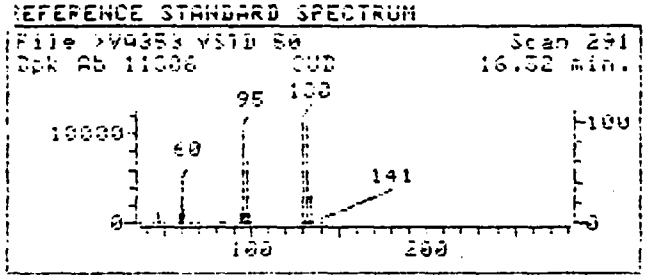
Quant Output File: ^A3092::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940525 10:34

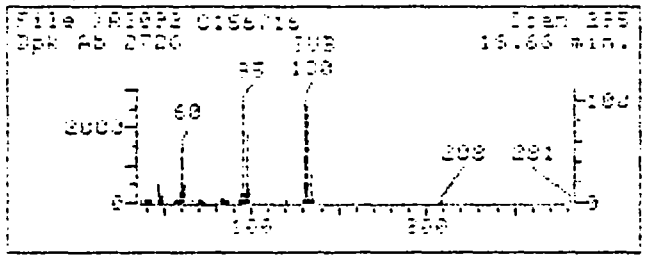
Compound No: 15
Compound Name: Tetrahydrofuran
Scan Number: 175
Retention Time: 10.18 min.
Quant Ion: 42.0
Area: 7442
Concentration: 26.91 UG/KG
q-value: 99

OK
CLS
5/26/94

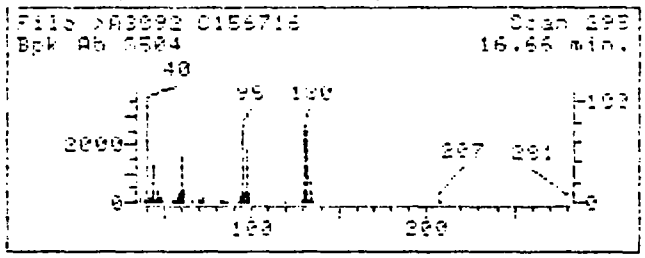
REFERENCE STANDARD SPECTRUM

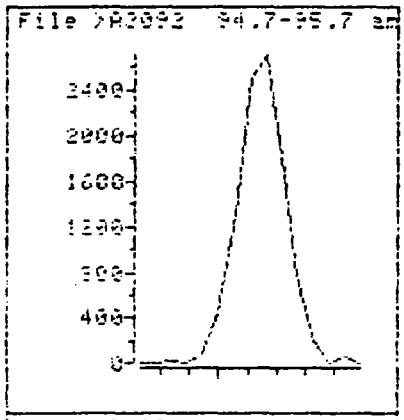


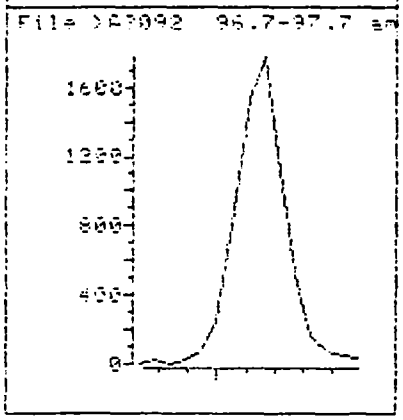
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNFILTERED)







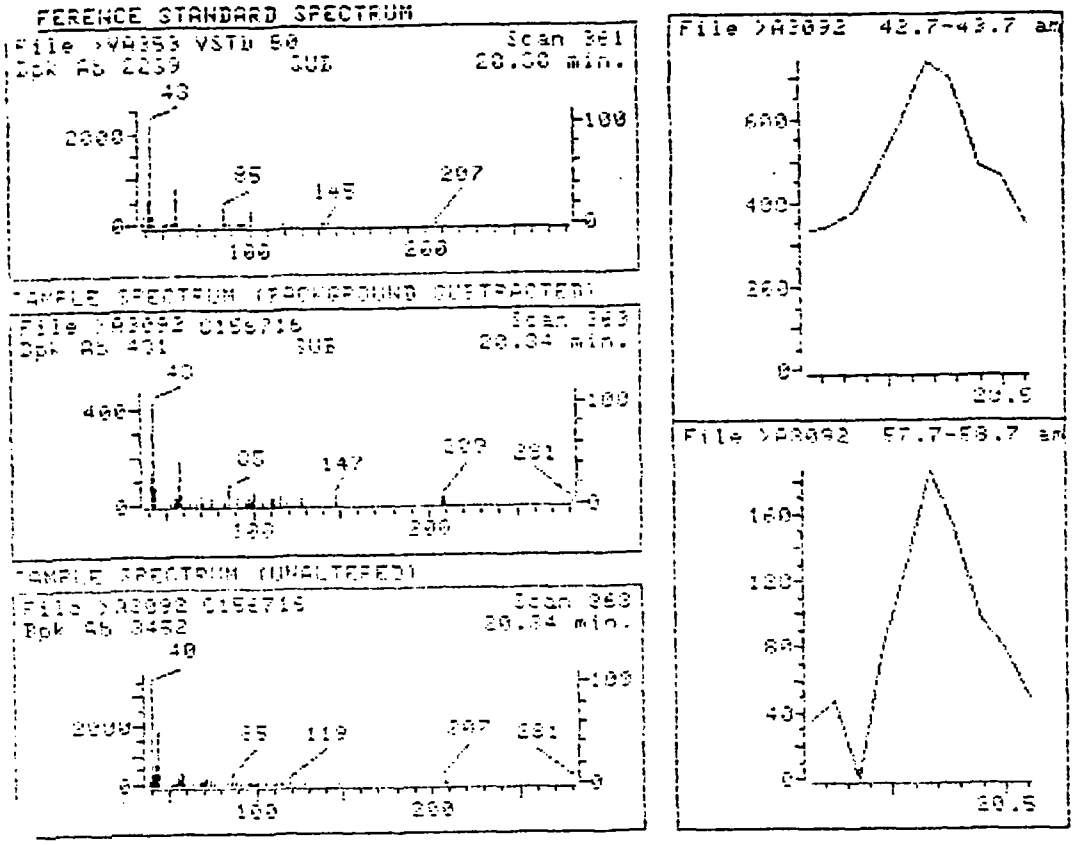
Data File: >A3092::S4
Name: C156716
Misc: SG SAMPLE - PRE/BM
Quant Time: 940526 10:54
Injected at: 940525 10:16

Quant Output File: ^A3092::S5

Quant ID File: 10SVOA::D5
Last Calibration: 940525 10:31

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 295
Retention Time: 16.66 min.
Quant Ion: 95.0
Area: 32256
Concentration: 18.27 UG/KG
q-value: 99

ok
CBS
5/25/94



Data File: >A3092::E4
Name: C196716
Misc: SG SAMPLE - HPE/AM
Quant Time: 940525 10:54
Injected at: 940525 10:16

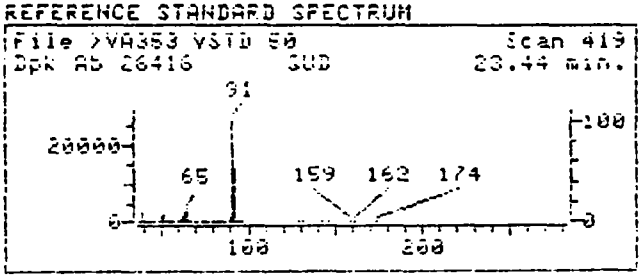
Quant Output File: ^A3092::SS

Quant ID File: 109UDA::D5
Last Calibration: 940525 10:34

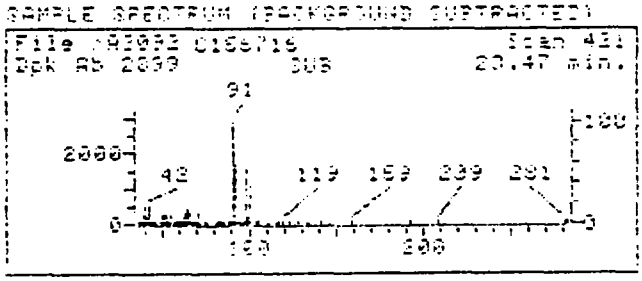
Compound No: 36
Compound Name: 4-Methyl-2-Pentanone
Scan Number: 363
Retention Time: 20.34 min.
Quant Ion: 43.0
Area: 5069
Concentration: 4.84 UG/KG
q-value: 91

OK
GES
5/25/94

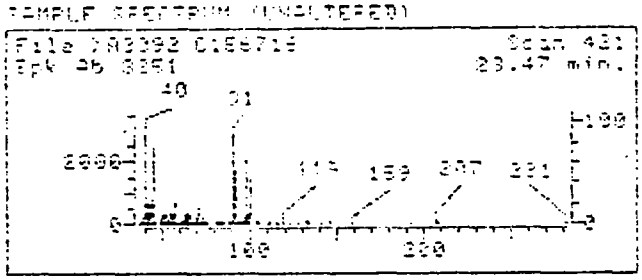
REFERENCE STANDARD SPECTRUM

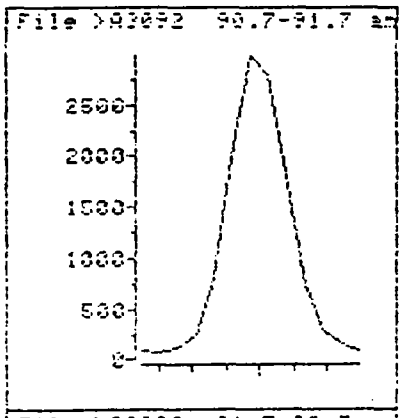


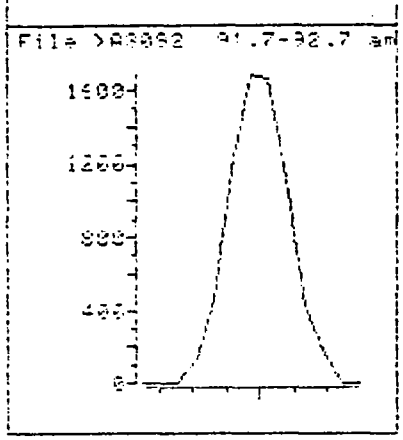
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







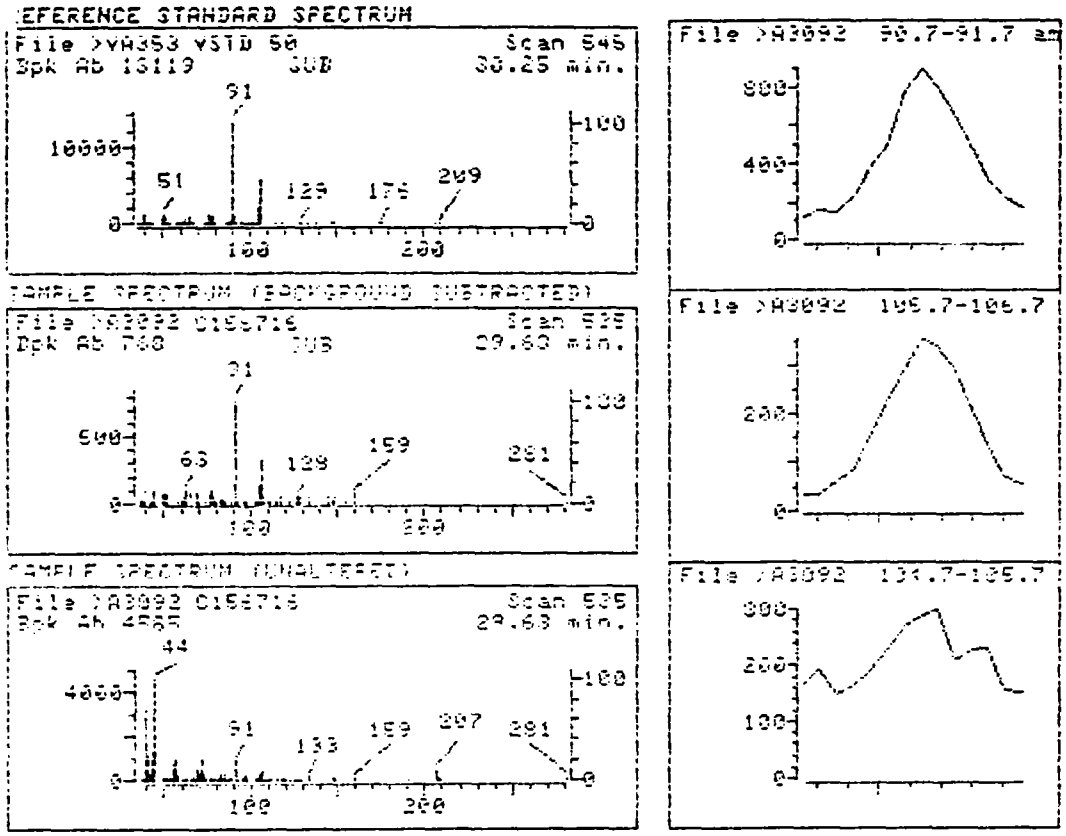
Data File: >A3092::E4
Name: C156716
Misc: FG SAMPLE - HPE/BM
Quant Time: 940525 10:54
Injected at: 940525 10:16

Quant Output File: ^A3092::SS
Quant ID File: INSVOA::C5
Last Calibration: 940525 10:34

Compound No: 41
Compound Name: Toluene
Scan Number: 421
Retention Time: 23.47 min.
Quant Ion: 92.0
Area: 21904
Concentration: 9.35 UG/KG
q-value: 91

OK
GES
~~5/29~~ GES
5/26/94

001050



Data File: >A3092::E4
Name: C156716
Misc: SG SAMPLE - HRE/SM
Quant Time: 940525 10:54
Injected at: 940525 10:16

Quant Output File: ^A3092::SS

Quant ID File: 109004::D5
Last Calibration: 940525 10:34

Compound No: 46
Compound Name: Total Xylenes
Scan Number: 535
Retention Time: 29.63 min.
Quant Ion: 106.0
Area: 6839
Concentration: ~~4.90~~ UG/KG
q-value: 86

QAREA
REINT

10723 6.74

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940525 12:23
Output File: ^A3094::S8 Injected at: 940525 11:44
Data File: >A3094::E4 Dilution Factor: 1.00000
Name: C156765
Misc: 5G SAMPLE - HPE-BM

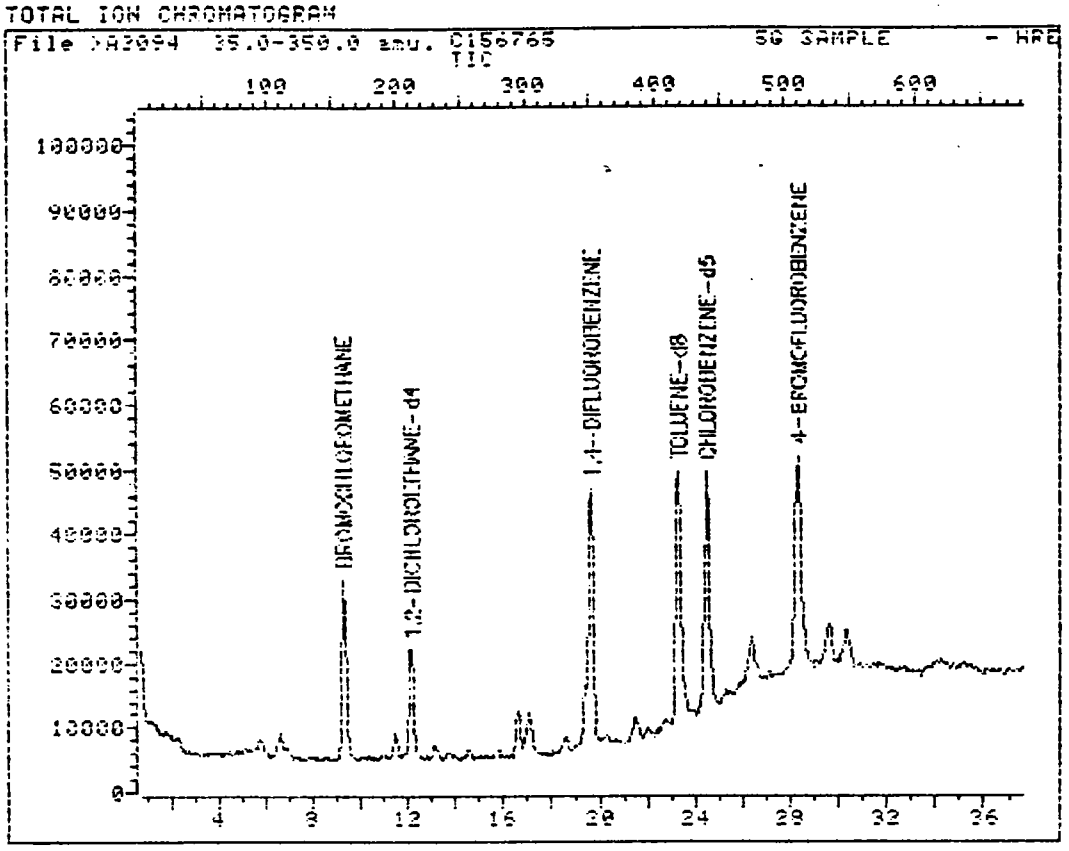
3/26/94

ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940525 10:34

	Compound	P.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.32	128.0	49769	50.00	UG/KG	100
7)	Methylene Chloride	5.75	84.0	4900	4.34	UG/KG	100
9)	Acetone	6.69	43.0	39028	134.94	UG/KG	95
18)	1,2-DICHLOROETHANE-d4	12.18	65.0	76080	44.61	UG/KG	99
21)	*1,4-DIFLUOROBENZENE	19.69	114.0	198207	50.00	UG/KG	83
28)	Trichloroethene	16.61	95.0	10477	6.65	UG/KG	91
29)	Benzene	17.09	78.0	27816	8.25	UG/KG	76
35)	*CHLOROBENZENE-d5	24.49	117.0	144766	50.00	UG/KG	88
40)	TOLUENE-d8	23.30	98.0	162476	54.81	UG/KG	94
41)	Toluene	23.47	92.0	22038	10.95	UG/KG	94
)	Ethyl Benzene	26.33	106.0	10043	7.72	UG/KG	94
4)	4-BROMOFLUOROBENZENE	28.33	95.0	109613	51.80	UG/KG	100
46)	Total Xylenes	29.63	106.0	36548M	26.75	UG/KG	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM

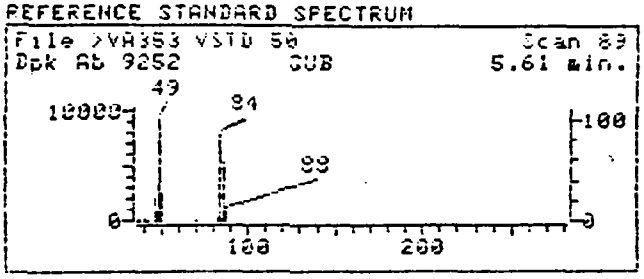


Data File: >A3094::E4 Quant Output File: ^A3094::SS
Name: C156765
Misc: SG SAMPLE - HRE-BM

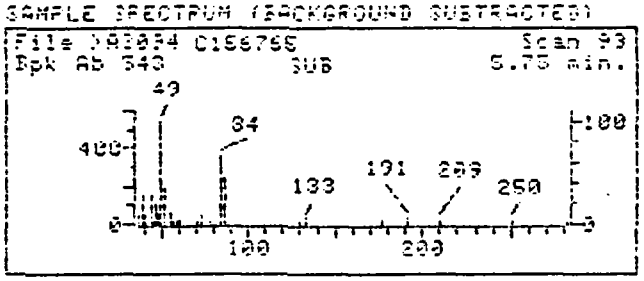
Id File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940525 10:34

Operator ID: USER8
Quant Time: 940525 12:23
Injected at: 940525 11:44

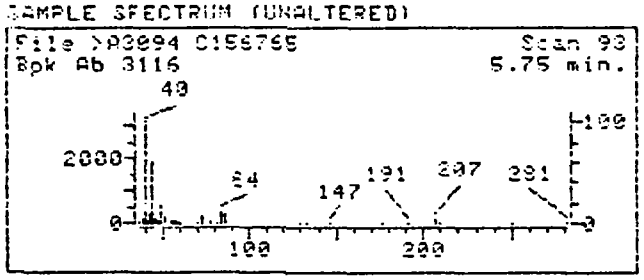
REFERENCE STANDARD SPECTRUM

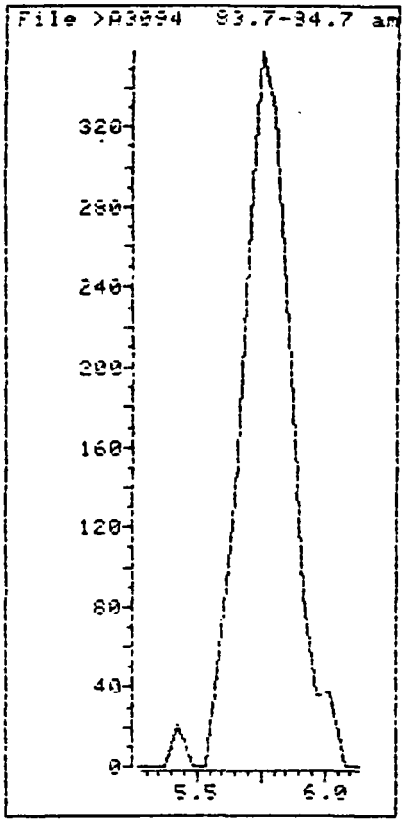


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



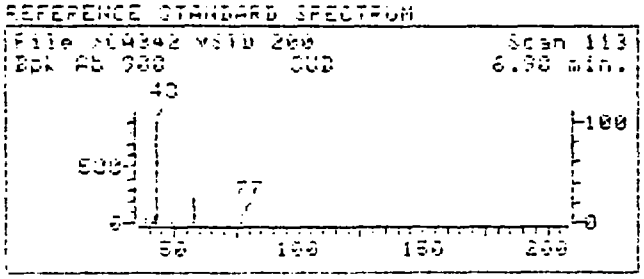


Data File: >A3094::E4 Quant Output File: ^A3094::SS
Name: C156765
Misc: 5G SAMPLE - HRE-BM
Quant Time: 940525 12:23 Quant ID File: IDSUOA::D5
Injected at: 940525 11:44 Last Calibration: 940525 10:34

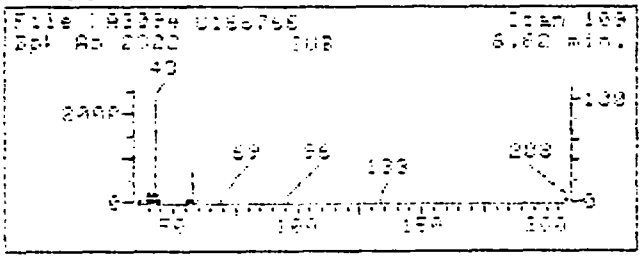
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 93
Retention Time: 5.75 min.
Quant Ion: 84.0
Area: 4900
Concentration: 4.34 UG/KG
q-value: 100

OK
CES
5/26/94

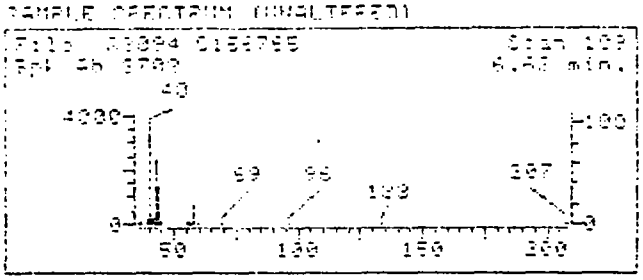
REFERENCE STANDARD SPECTRUM

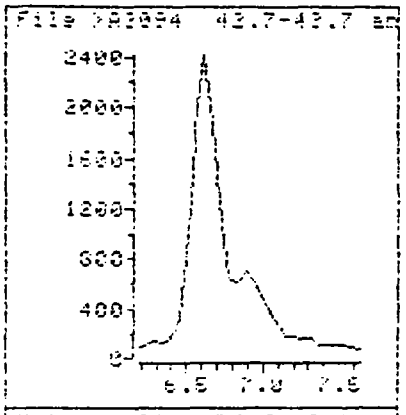


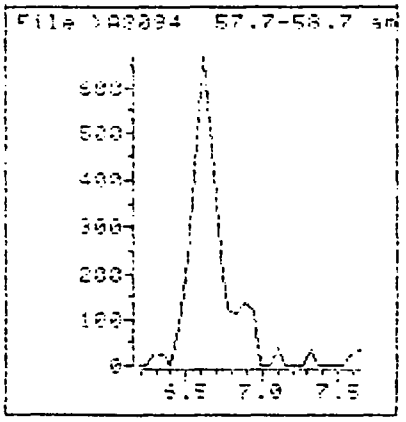
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







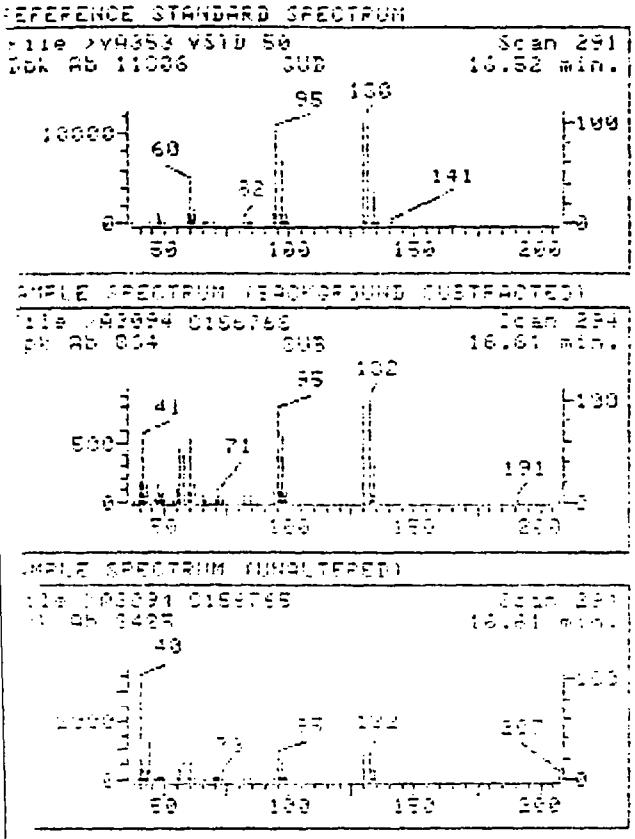
Data File: >A3094::E4
Name: 0156755
Misc: PG SAMPLE - HRE-8M
Quant Time: 940525 12:03
Injected at: 940525 11:44

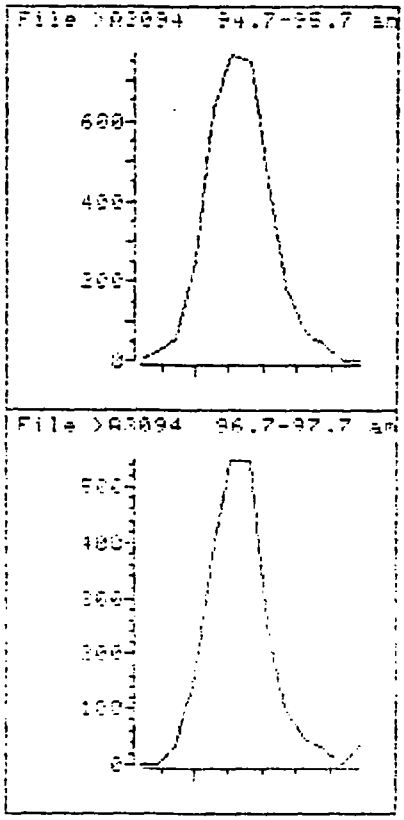
Quant Output File: ^A3094::S5

Quant ID File: IDSV04::D5
Last Calibration: 940525 10:34

Compound No: 8
Compound Name: Acetone
Scan Number: 109
Retention Time: 6.62 min.
Quant Ion: 43.0
Area: 39028
Concentration: 134.94 UG/KG
q-value: 96

OKGES
5/22/94





Data File: >A3094::E4
Name: C156765
Misc: 5G SAMPLE - PRE-RM
Quant Time: 940525 12:23
Injected at: 940525 11:44

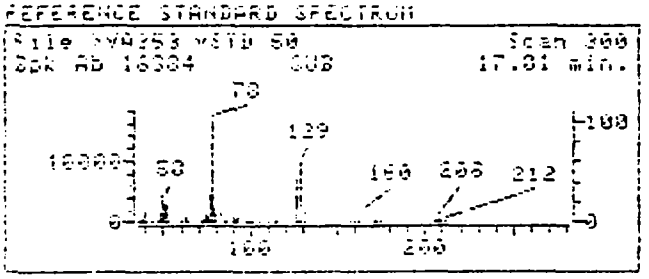
Quant Output File: ^A3094::SS

Quant ID File: IOSVOA::D5
Last Calibration: 940525 10:34

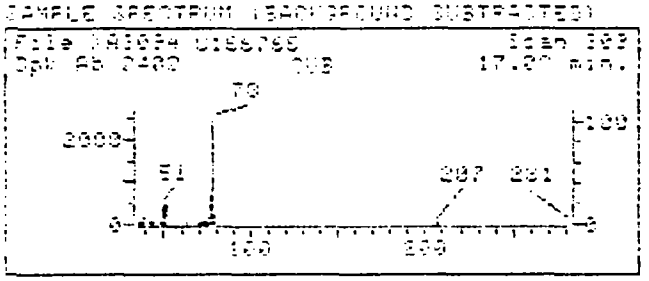
Compound No: 28
Compound Name: Trichloroethene
Scan Number: 294
Retention Time: 16.61 min.
Quant Ion: 95.0
Area: 10477
Concentration: 6.65 UG/KG
q-value: 91

OK
CES
5/26/94

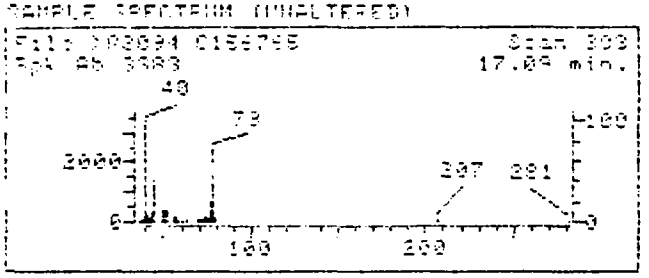
REFERENCE STANDARD SPECTRUM

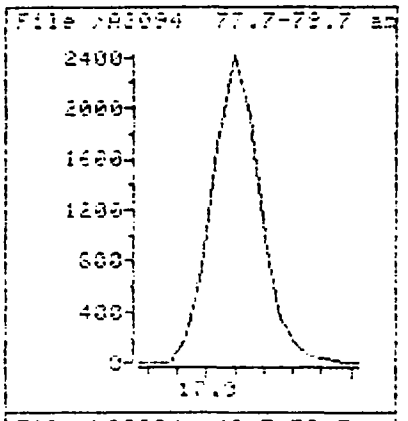


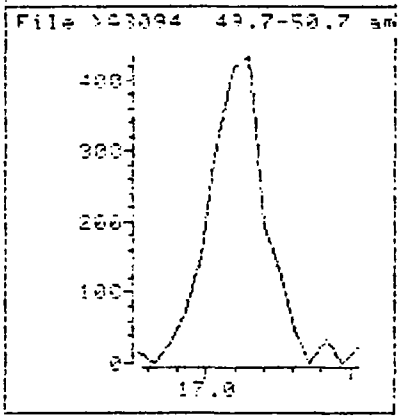
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3094::E4
Name: C156765
Misc: 5G SAMPLE - HRE-BM
Quant Time: 940525 12:23
Injected at: 940525 11:44

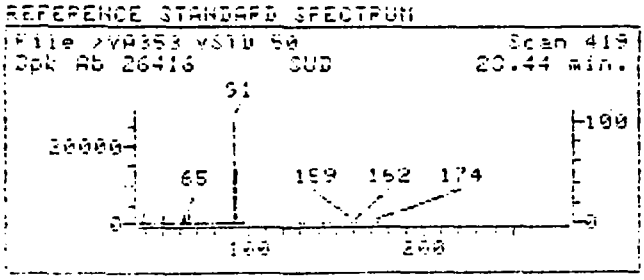
Quant Output File: ^A3094::SS

Quant ID File: IOSVOA::05
Last Calibration: 940525 10:34

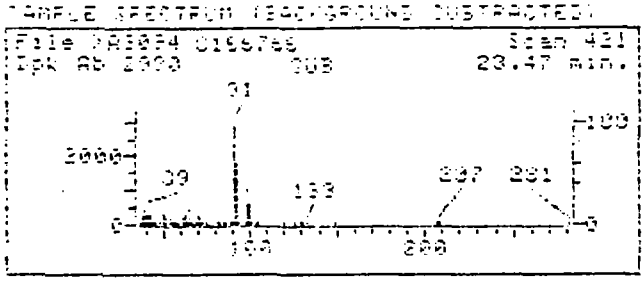
Compound No: 29
Compound Name: Benzene
Scan Number: 303
Retention Time: 17.09 min.
Quant Ion: 78.0
Area: 27816
Concentration: 8.25 UG/KG
q-value: 76

OK
CES
5/26/94

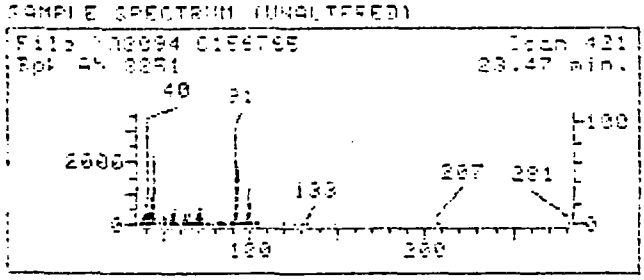
REFERENCE STANDARD SPECTRUM

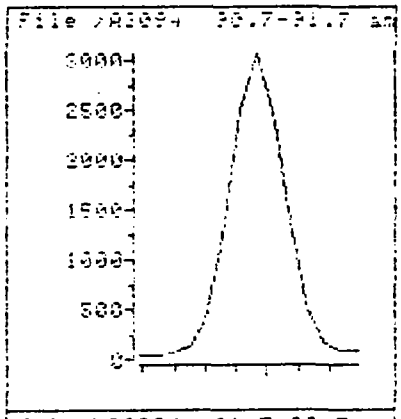


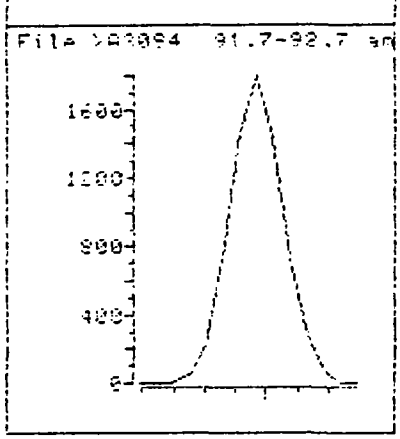
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >A3094::S4
Name: 0156765
Misc: RS SAMPLE - HPE-BM
Quant Time: 940525 12:23
Injected at: 940525 11:44

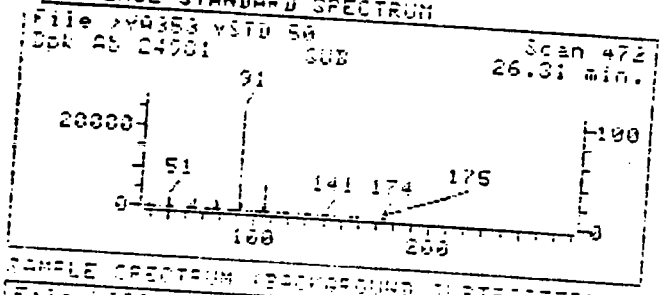
Quant Output File: ^A3094::SS

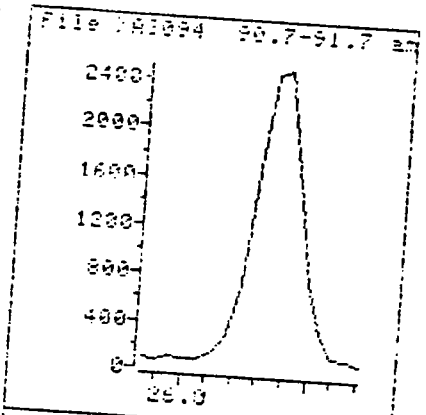
Quant ID File: 109UDA::D6
Last Calibration: 940525 10:34

Compound No: 41
Compound Name: Toluene
Scan Number: 421
Retention Time: 23.47 min.
Quant Ion: 92.0
Area: 22038
Concentration: 10.95 UG/KG
q-value: 94

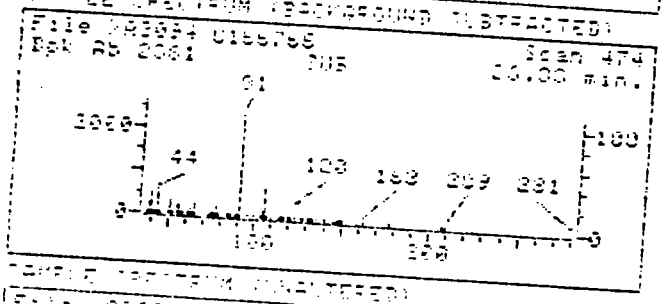
OK
CBS
5/26/94

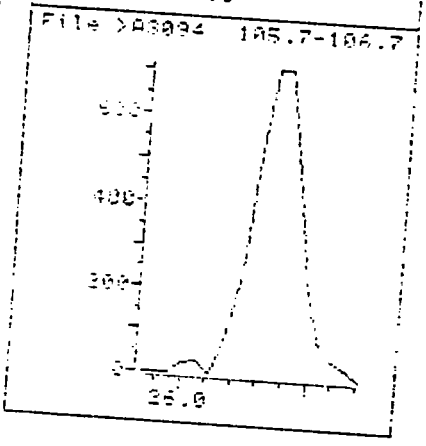
EFERENCE STANDARD SPECTRUM



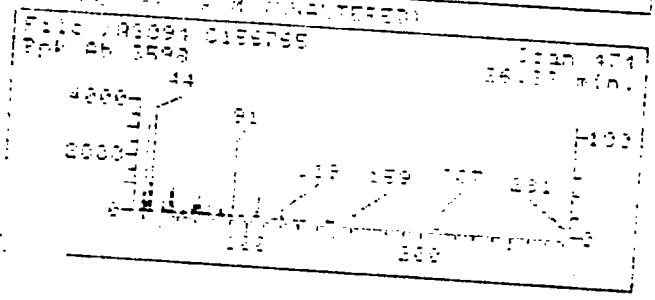


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNSUBTRACTED)



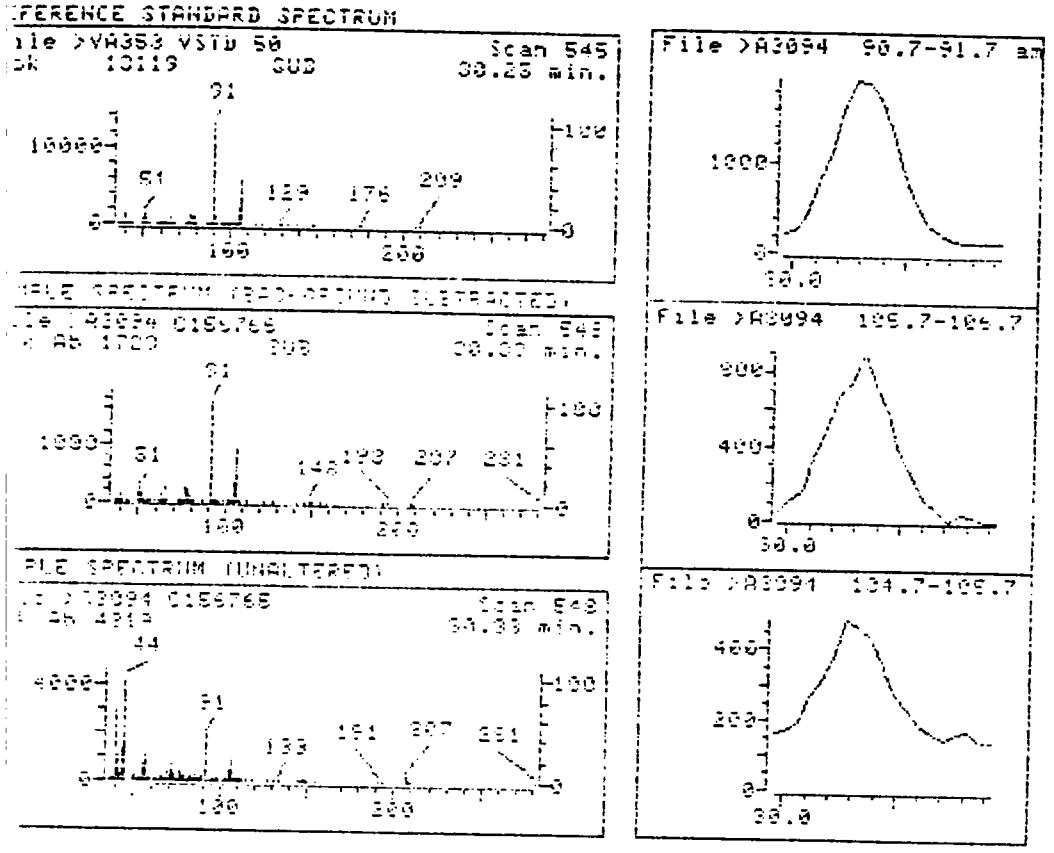
Data File: >A3094::E4
Name: C156766
Misc: SG SAMPLE - HPE-BM
Quant Time: 940526 10:03
Injected at: 940525 11:44

Quant Output File: ^A3094::SS

Quant ID File: 105WDA::06
Last Calibration: 940525 10:34

Compound No: 43
Compound Name: Ethyl Benzene
Scan Number: 474
Retention Time: 26.33 min.
Quant Ion: 106.0
Area: 10843
Concentration: 7.72 UG/KG
q-value: 94

OK
CBS
5/26/94



a File: >A3094::E4
Name: C156765
Misc: 5G SAMPLE - PPE-SM
Quant Time: 940525 12:23
Injected at: 940525 11:44

Quant Output File: ^A3094::SS

Quant IO File: [USVOA::05
Last Calibration: 940525 10:34

Compound No: 44
Compound Name: Total Xylenes
Scan Number: 548
Retention Time: 30.33 min.
Quant Ion: 106.0
Area: 18117
Concentration: ~~17.24~~ UG/KG ✓
q-value: 90
26.75 GES

QUANT REPORT

Operator ID: [illegible] Quant Rev: 6 Quant Time: 940525 15:23
Output File: [illegible] Injected at: 940525 14:45
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible]
Misc: [illegible] SAMPLE - HRE-BM

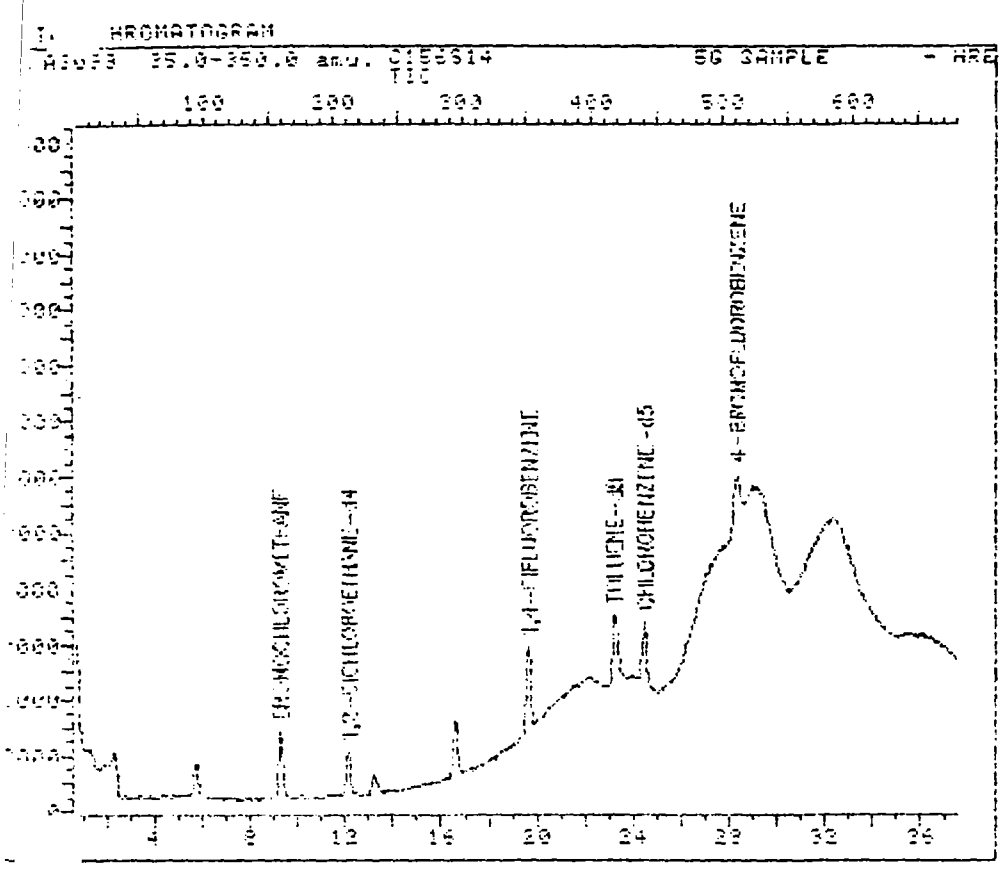
OK
GB
5/26/94

mx Proven

[illegible] File: [illegible]
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940525 10:34

	Compound	R.T.	Q ion	Area	Conc	Units	q
[illegible]	*[illegible]	9.30	108.0	42307	50.00	UG/KG	100
[illegible]	Methylene Chloride	5.[illegible]	84.0	30550	41.96	UG/KG	100
[illegible]	1,2-[illegible]	12.14	65.0	74064	51.09	UG/KG	94
[illegible]	*1,4-[illegible]	19.47	114.0	148254	50.00	UG/KG	89
[illegible]	1,1,1-Trichloroethane	13.41	97.0	7779	3.97	UG/KG	87
[illegible]	Trichloroethene	16.59	95.0	43192	36.63	UG/KG	99
[illegible]	*[illegible]	24.49	117.0	92544	50.00	UG/KG	90
[illegible]	[illegible]	23.04	98.0	112316	59.07	UG/KG	93
[illegible]	Toluene	23.46	92.0	11609	9.00	UG/KG	79
[illegible]	4-[illegible]	28.[illegible]	95.0	59304	43.94	UG/KG	100

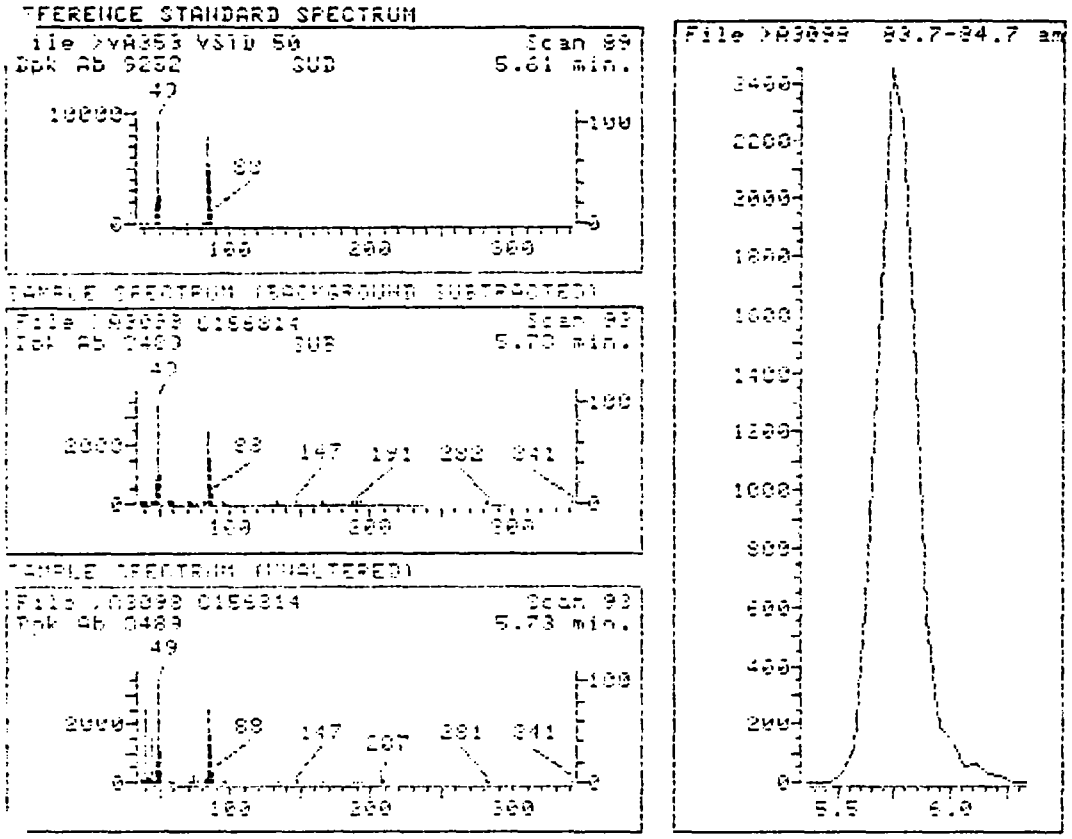
* Compound is [illegible]



Data File: >A3098::E6 Quant Output File: ^A3098::SS
Name: C156814
Misc: 5G SAMPLE - HRE-BM

Id File: IDSVOA::U5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940525 10:34

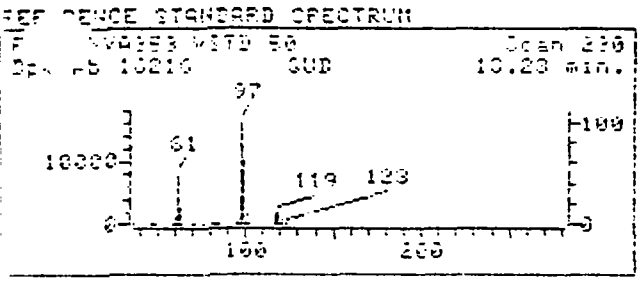
Operator ID: USER8
Quant Time: 940525 15:23
Injected at: 940525 14:45

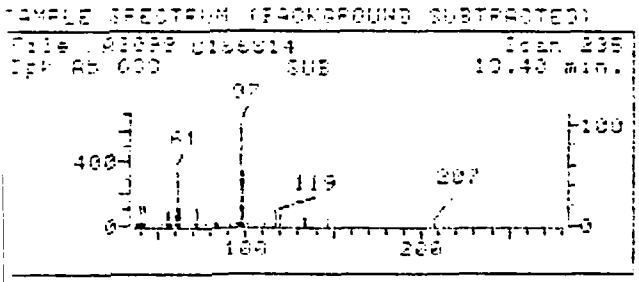


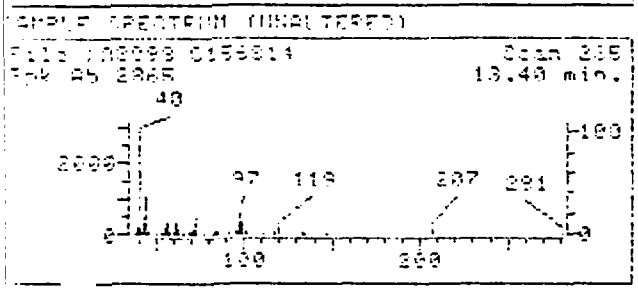
Data File: >A3098::F6 Quant Output File: ^A3098::SS
Name: C156814
Misc: 5G SAMPLE - HPE-BM
Quant Time: 940525 15:23 Quant ID File: IDSUOA::D5
Injected at: 940525 14:45 Last Calibration: 940525 10:34

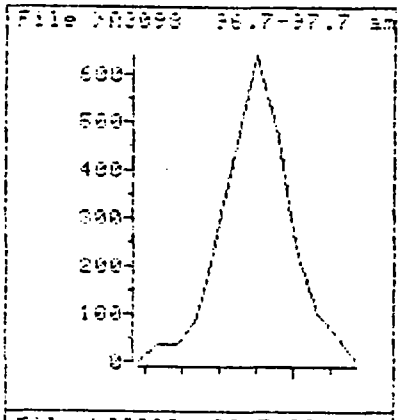
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 93
Retention Time: 5.73 min.
Quant Ion: 84.0
Area: 30590
Concentration: 31.86 UG/KG
q-value: 100

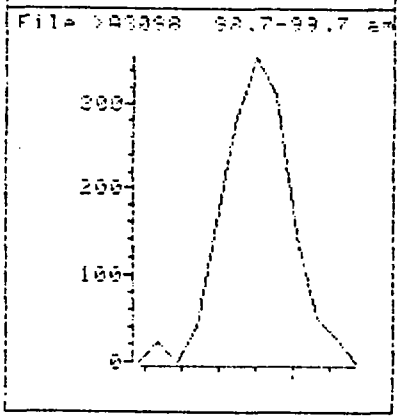
OK
GES
5/26/94









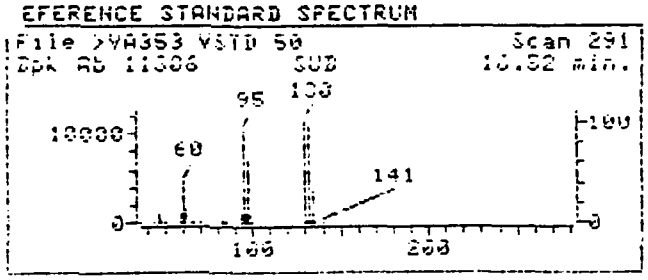


Data File: >A3098::E6 Quant Output File: ^A3098::SS
Name: C156814
Misc: SG SAMPLE - HYE-BM
Quant Time: 940525 15:23 Quant ID File: 10SUDA::D5
Injected at: 940525 14:46 Last Calibration: 940525 10:34

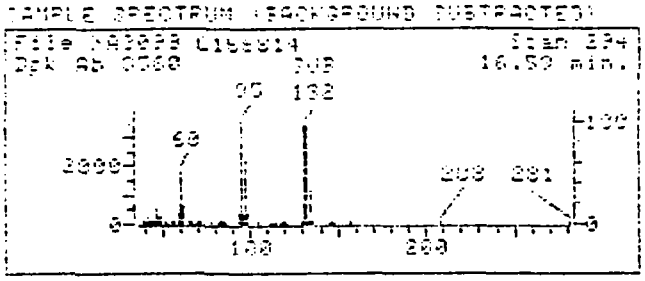
Compound No: 22
Compound Name: 1,1,1-Trichloroethane
Scan Number: 235
Retention Time: 13.40 min.
Quant Ion: 97.0
Area: 2279
Concentration: 3.98 UG/KG
q-value: 87

OK
CES
5/26/94

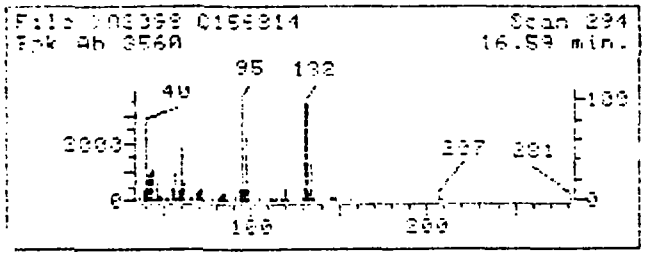
EFERENCE STANDARD SPECTRUM

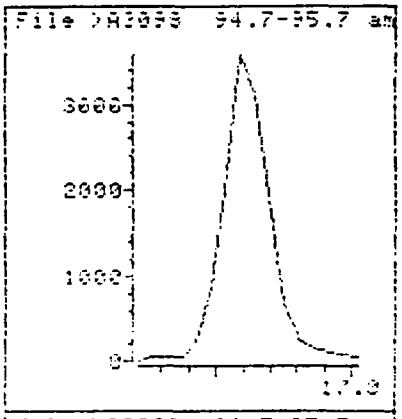


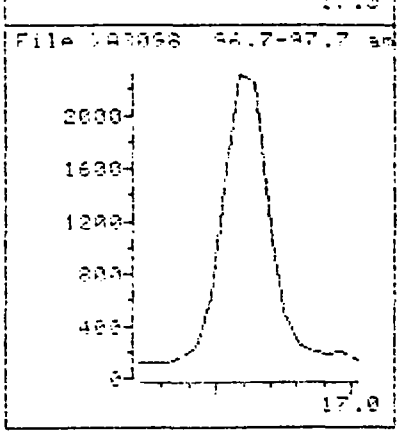
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







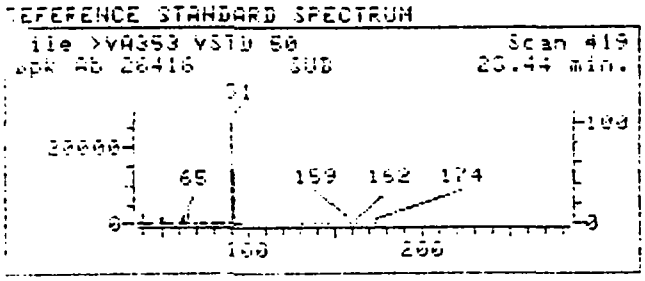
Data File: >A3098::E6
Name: C156814
Misc: 5G SAMPLE - HPE-BM
Quant Time: 940525 15:23
Injected at: 940525 14:45

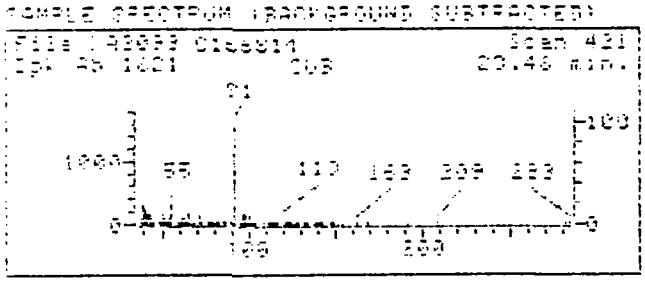
Quant Output File: ^A3098::SS

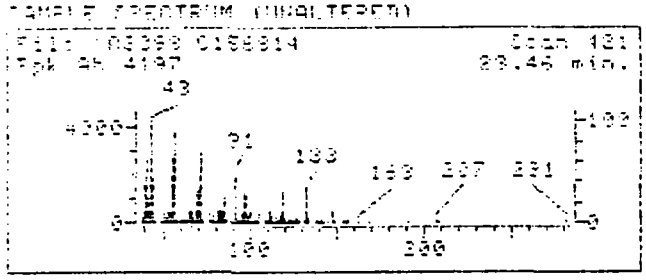
Quant ID File: IDSVOA::D5
Last Calibration: 940525 10:34

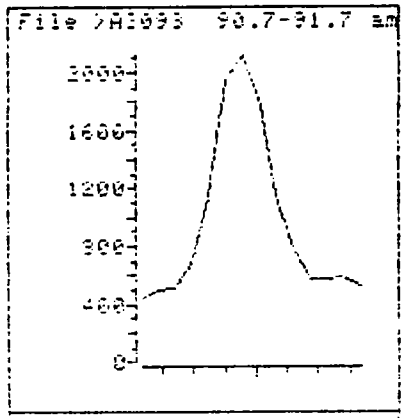
Compound No: 28
Compound Name: Trichloroethene
Scan Number: 294
Retention Time: 16.59 min.
Quant Ion: 95.0
Area: 43192
Concentration: 36.63 UG/KG
q-value: 99

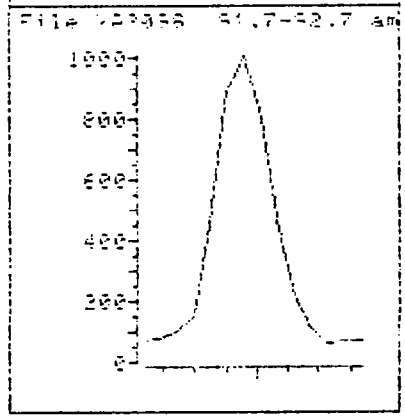
OK
CBS
5/26/94











Data File: >A3098::56
Name: C156814
Misc: 5G SAMPLE - HRE-5M
Quant Time: 940525 15:23
Injected at: 940525 14:45

Quant Output File: ^A3098::SS

Quant ID File: IDSVOA::05
Last Calibration: 940525 10:34

Compound No: 41
Compound Name: Toluene
Scan Number: 421
Retention Time: 23.46 min.
Quant Ion: 92.0
Area: 11609
Concentration: 9.02 UG/KG
q-value: 79

OK
CES
5/26/94

001066

QUANT REPORT

Operator ID: [illegible] Quant Rev: 6 Quant Time: 940525 19:56
Output File: [illegible] Injected at: 940525 19:15
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible]
Misc: 5% SAMPLE - PRE-BM

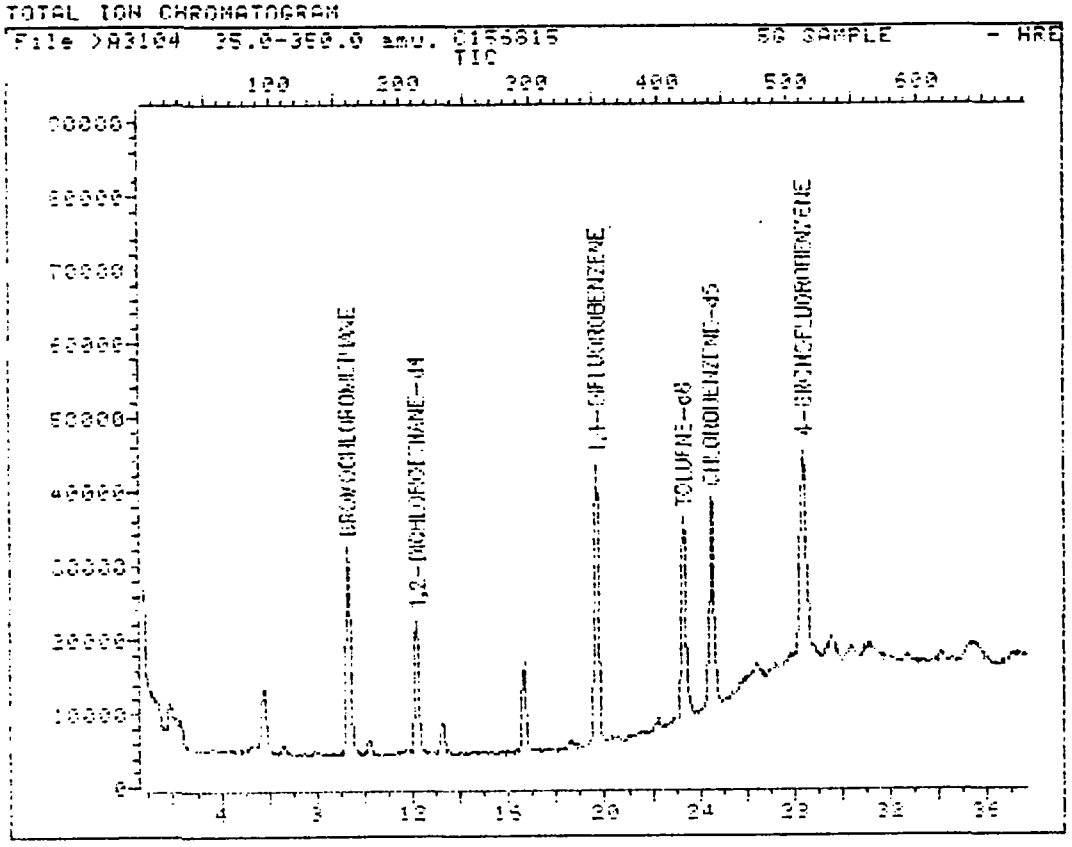
[illegible]
[illegible]
[illegible]

	Compound	R.T.	[illegible]	Area	Conc	Units	Q
*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Methylene Chloride	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Benzene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Toluene-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Total Xylenes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

* Compound is [illegible]

001067

TOTAL ION CHROMATOGRAM

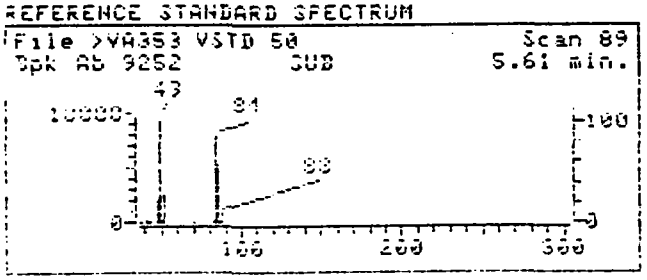


Data File: >A3104::E6 Quant Output File: ^A3104::SS
Name: C156815
Misc: SG SAMPLE - HRE-BM

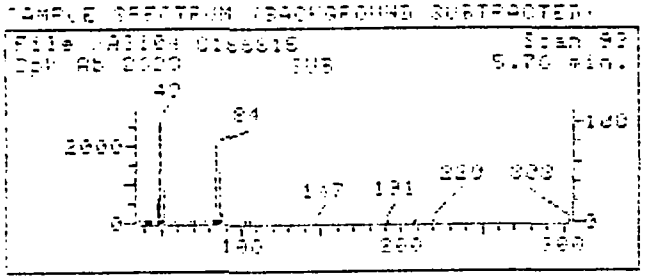
Id File: DOSUDA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS SW/M50-A
Last Calibration: 940525 10:34

Operator ID: USEP8
Quant Time: 940525 19:56
Injected at: 940525 19:15

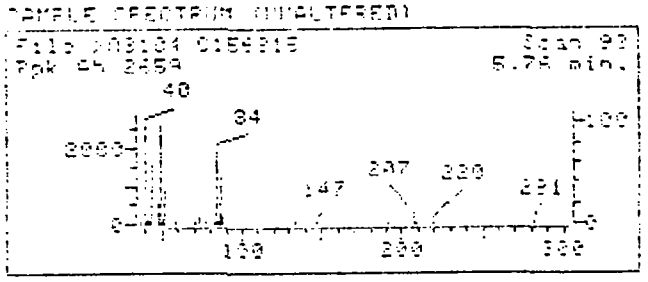
REFERENCE STANDARD SPECTRUM

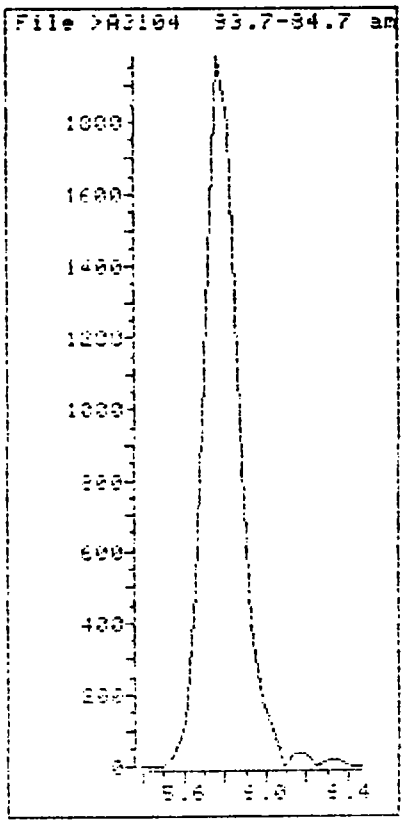


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





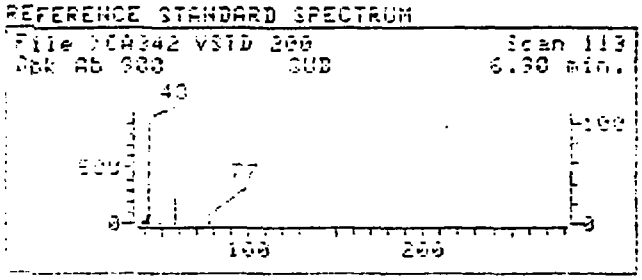
Data File: >A3104::E6
Name: C156815
Misc: SS SAMPLE - HRE-9M
Quant Time: 940525 [illegible]
Injected at: 940505 [illegible]

Quant Output File: >A3104::SS
Quant ID File: IDSUDA::05
Last Calibration: 940505 [illegible]

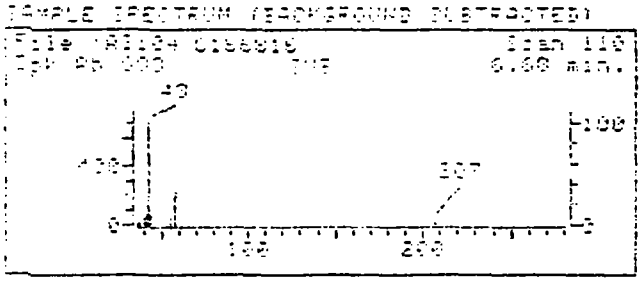
Compound No: [illegible]
Compound Name: Methylene Chloride
Scan Number: 93
Retention Time: 5.76 min.
Quant Ion: 94.0
Area: 24097
Concentration: [illegible] UG/KG
q-value: 100

OK
CES
5/26/94

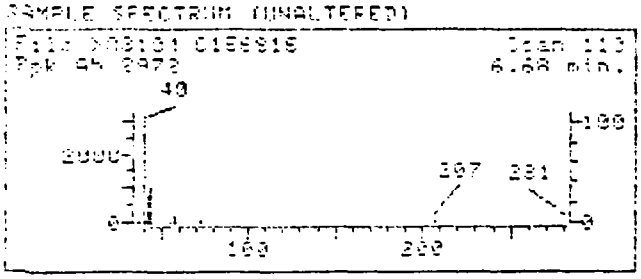
REFERENCE STANDARD SPECTRUM

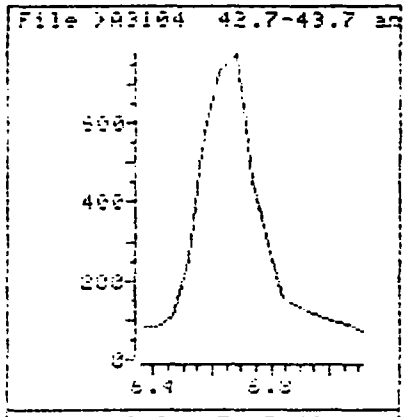


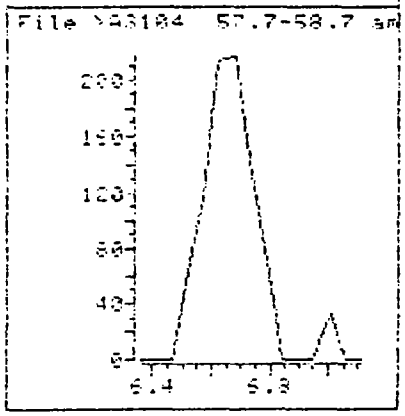
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







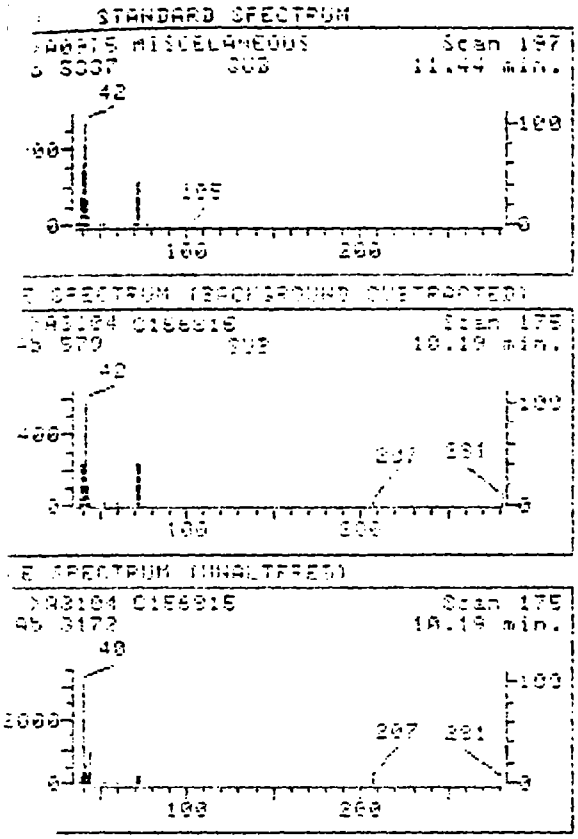
Data File: >A3104::E6
Name: 0156816
Misc: PG SAMPLE - HPE-BM
Quant Time: 940525 19:56
Injected at: 940525 19:15

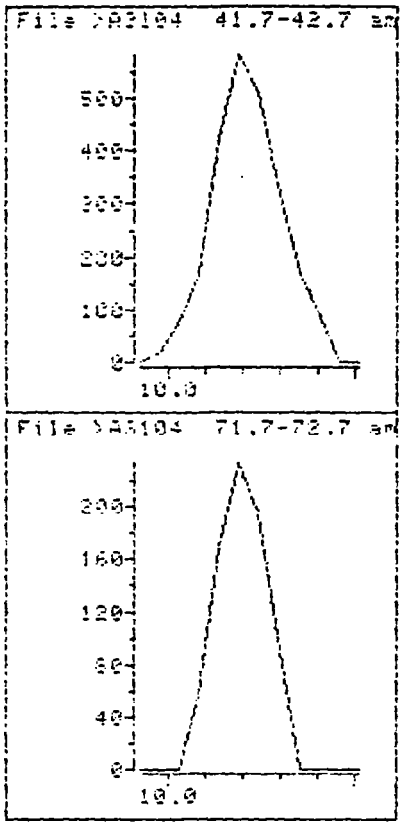
Quant Output File: ^A3104::SS

Quant ID File: 105U0A::D6
Last Calibration: 940525 10:34

Compound No: 8
Compound Name: Acetone
Scan Number: 110
Retention Time: 6.68 min.
Quant Ion: 43.0
Area: 9443
Concentration: 32.58 UG/KG
q-value: 96

OK
GES
5/26/94





Data File: >A3104::E6
Name: C156815
Misc: 5G SAMPLE - HRE-BM
Quant Time: 940525 19:56
Injected at: 940525 19:15

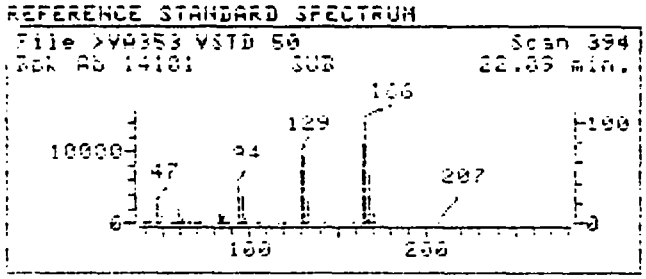
Quant Output File: ^A3104::SS

Quant ID File: IOSUOA::D5
Last Calibration: 940525 10:34

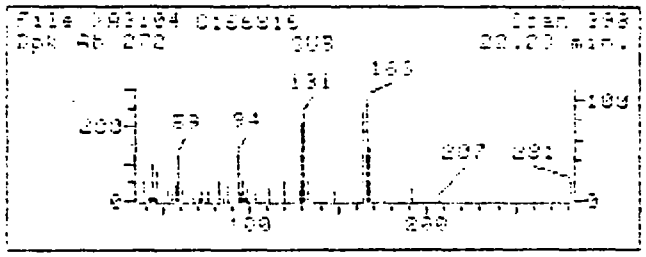
Compound No: 15
Compound Name: Tetrahydrofuran
Scan Number: 175
Retention Time: 10.19 min.
Quant Ion: 42.0
Area: 7675
Concentration: 32.02 UG/KG
q-value: 99

OK
CES
5/26/94

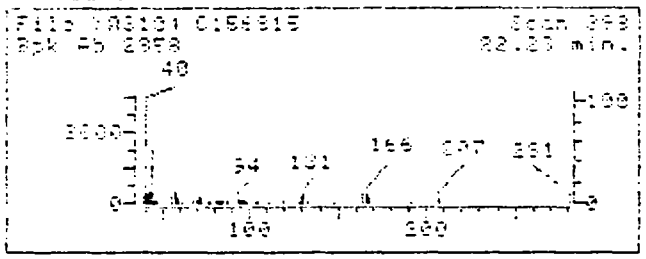
REFERENCE STANDARD SPECTRUM

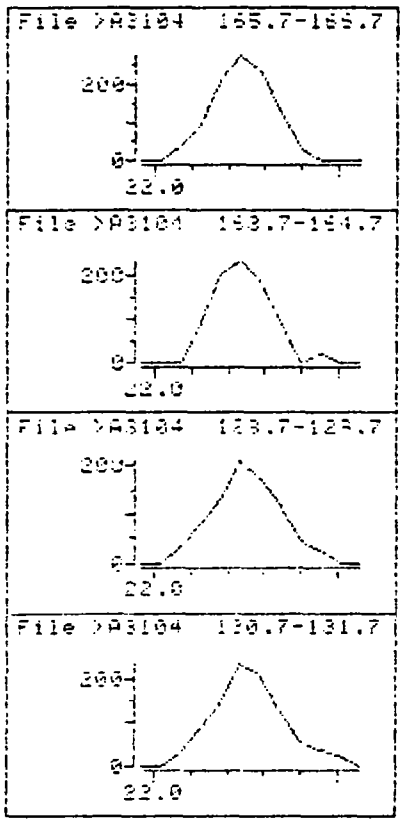


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



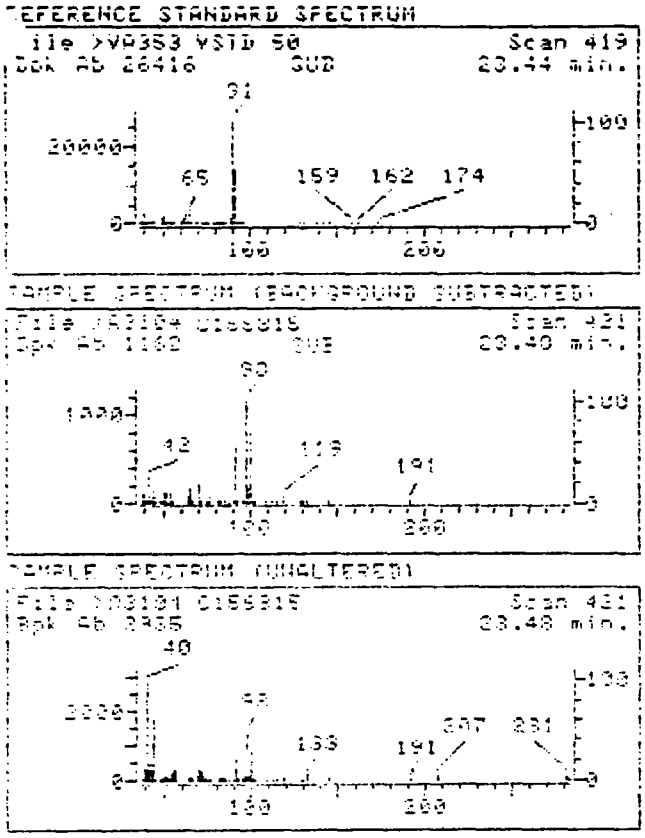


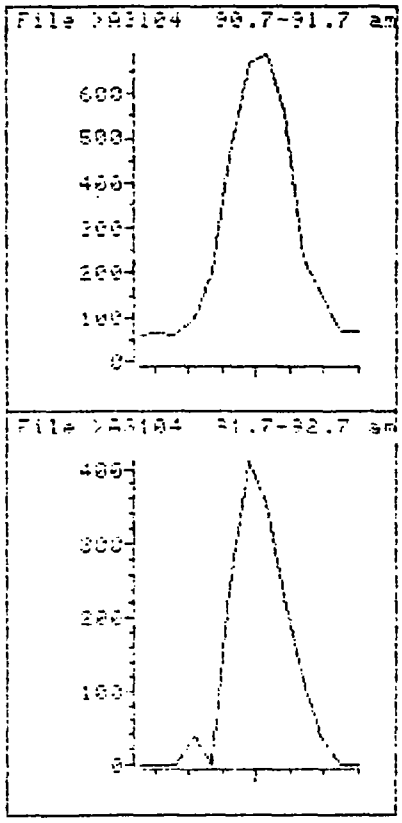
Data File: >A3104::E6
Name: 0156815
Misc: SG SAMPLE - HPE-BM
Quant Time: 940525 19:56
Injected at: 940525 19:15

Quant Output File: ^A3104::SS
Quant ID File: IDSUDA::05
Last Calibration: 940525 18:34

Compound No: 38
Compound Name: Tetrachloroethene
Scan Number: 393
Retention Time: 22.23 min.
Quant Ion: 164.0
Area: 2697
Concentration: 2.84 UG/KG
q-value: 90

OK
CES
5/26/94





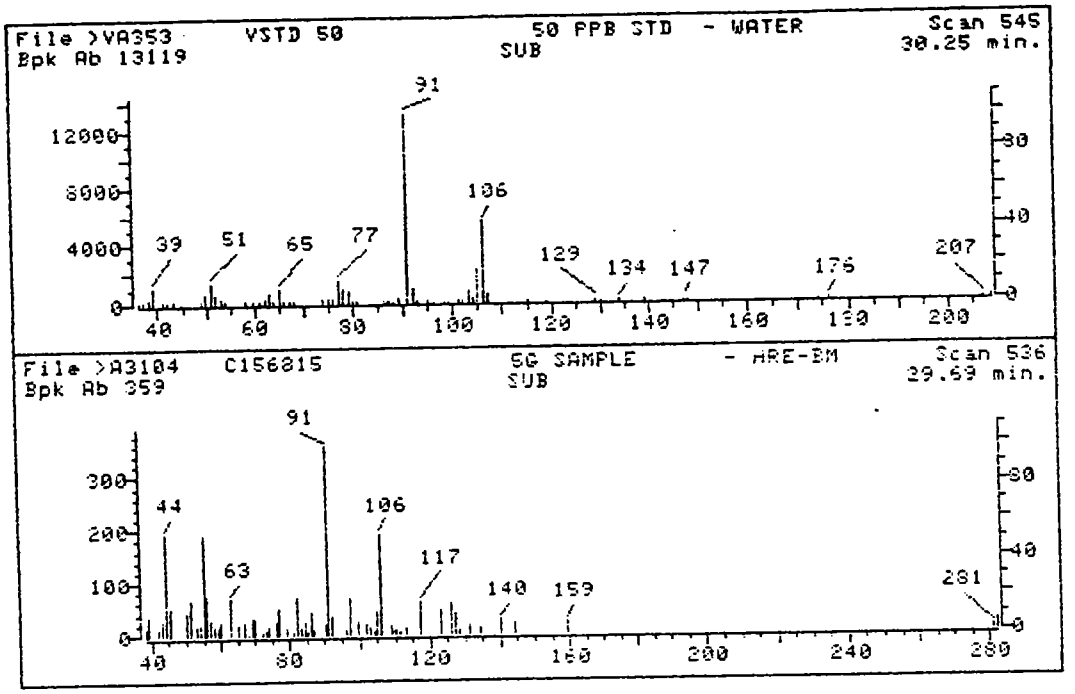
Data File: >A3104::E6
Name: C156815
Misc: SG SAMPLE - HPE-BM
Quant Time: 940525 19:56
Injected at: 940525 19:15

Quant Output File: ^A3104::SS

Quant ID File: IDSUDA::D5
Last Calibration: 940525 10:34

Compound No: 41
Compound Name: Toluene
Scan Number: 421
Retention Time: 23.48 min.
Quant Ion: 92.0
Area: 4647
Concentration: 3.00 UG/KG
q-value: 97

OK
CBS
5/26/94



46) Total Xylenes RT:30.34 Area: 9531M ~~0.85~~ UG/KG
9.07

001075

QUANT REPORT

[illegible] Quant Rev: 6 Quant Time: [illegible] 11:06
[illegible] Injected at: [illegible] 10:27
[illegible] Dilution Factor: 1.00000
[illegible]
[illegible]

5/22/74

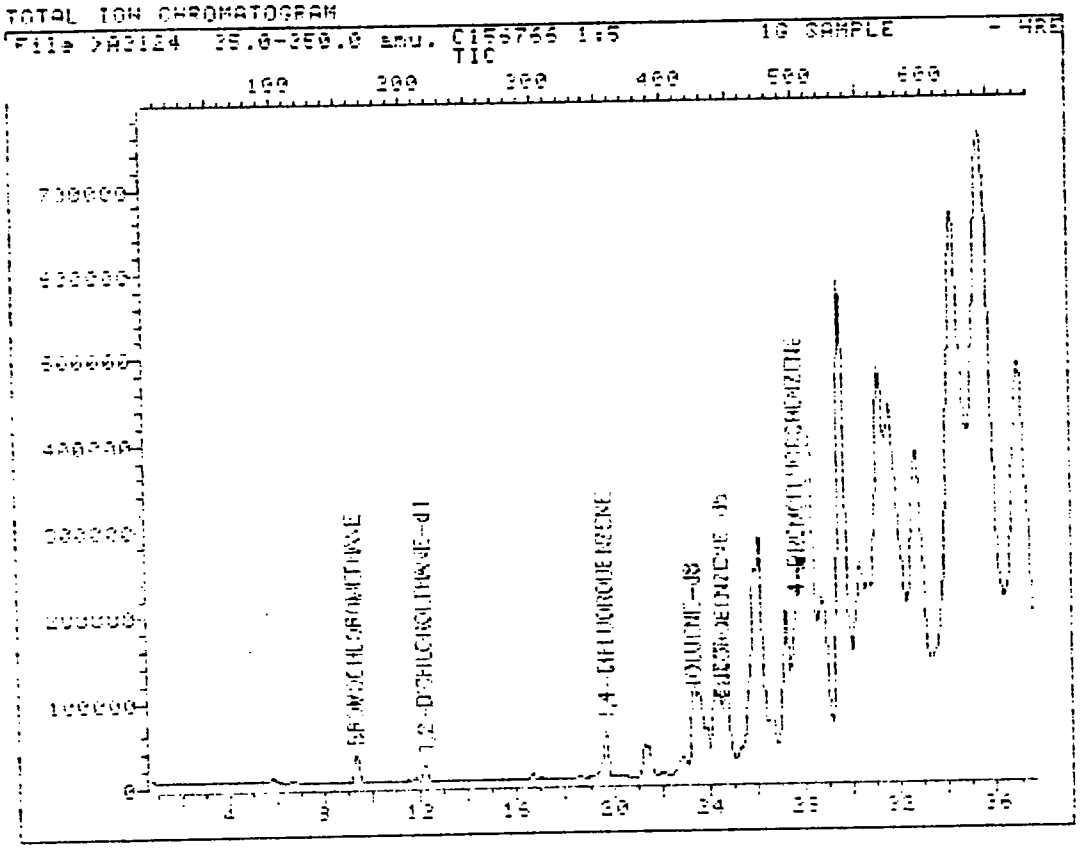
[illegible]
[illegible]
[illegible]

	Compound	R.T.	[illegible]	Area	Conc	Units	q
[illegible]	*[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.04	[illegible]	[illegible]
[illegible]	[illegible]	6.67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	*[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	16.64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	*[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.06	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

* Compound [illegible]

001076

TOTAL ION CHROMATOGRAM

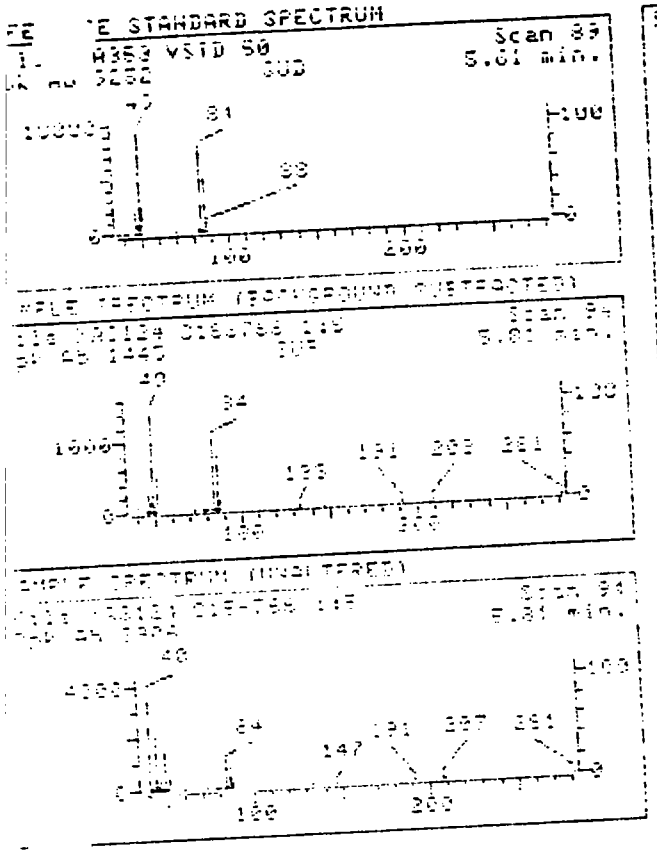


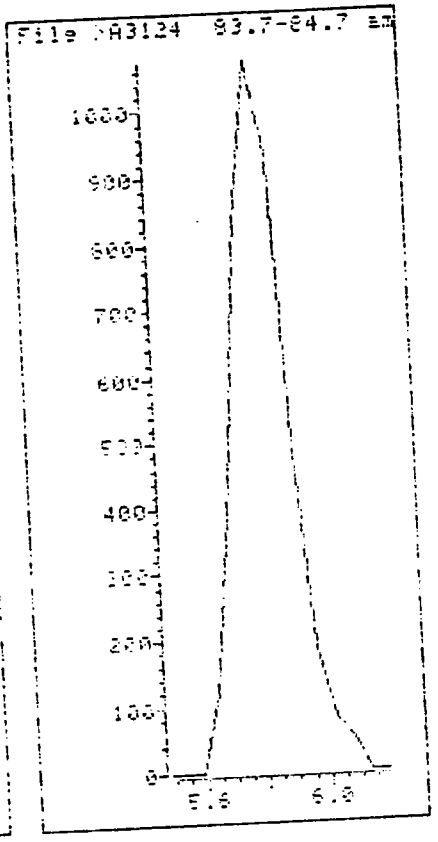
Data File: >A3124::E6
Name: C156766 1:5
Misc: 1G SAMPLE - HRE/BM

Quant Output File: ^A3124::SS

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 11:06
Injected at: 940527 10:27





Data File: >A3124::S6
Name: C156764 1:5
Misc: 15 SAMPLE - HPE/BM
Quant Time: 940527 11:46
Injected at: 940527 10:27

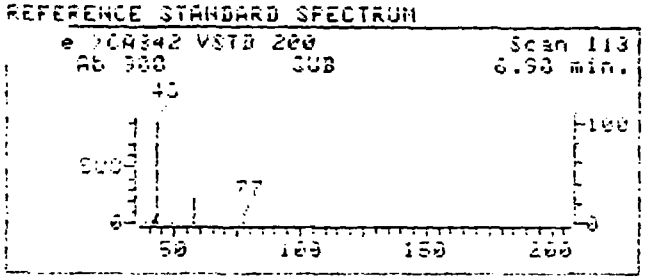
Quant Output File: ^A3124::S5

Quant ID File: IDSUOA::05
Last Calibration: 940527 10:57

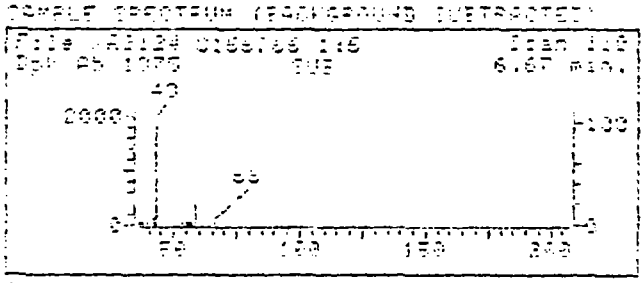
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 94
Retention Time: 5.81 min.
Quant Ion: 84.0
Area: 13444
Concentration: 11.04 UG/KG
q-value: 100

OK
CES
5/27/94

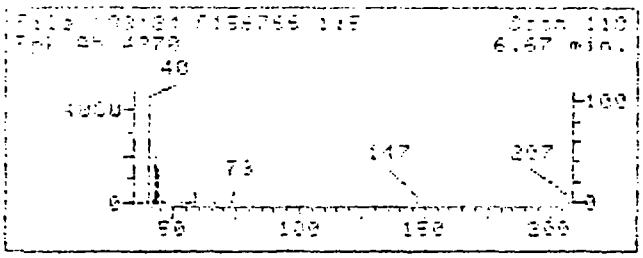
REFERENCE STANDARD SPECTRUM

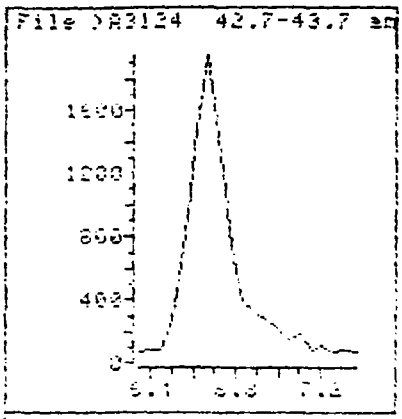


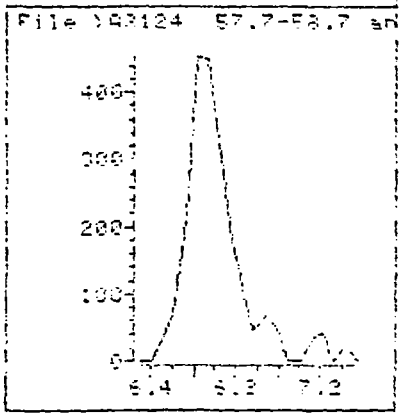
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







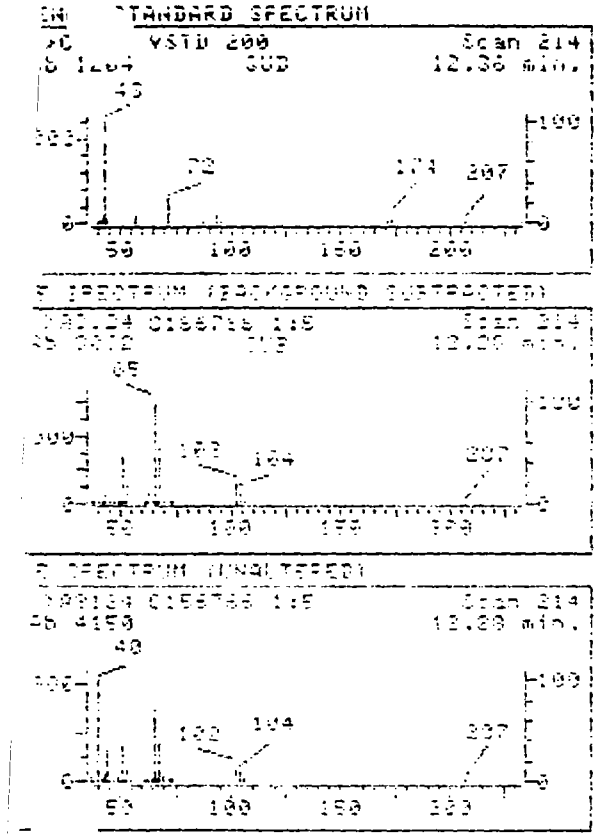
Data File: >A3124::E6
Name: C156766 1:5
Misc: 1G SAMPLE - HRE/BM
Quant Time: 940527 11:06
Injected at: 940527 10:27

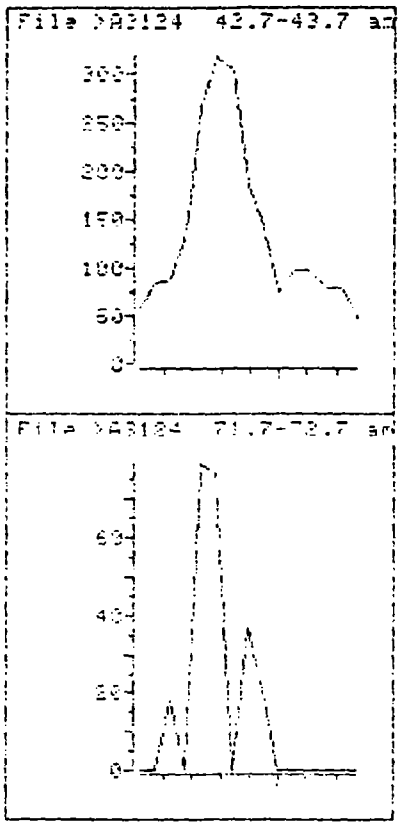
Quant Output File: ^A3124::SS

Quant IO File: IOSUOA::D5
Last Calibration: 940527 10:57

Compound No: 8
Compound Name: Acetone
Scan Number: 110
Retention Time: 6.67 min.
Quant Ion: 43.0
Area: 23962
Concentration: 70.71 UG/KG
q-value: 87

OK
CES
5/27/94





Data File: >A3124::E6
Name: C156766 1:5
Misc: 1G SAMPLE - HRE/BM
Quant Time: 940527 11:06
Injected at: 940527 10:27

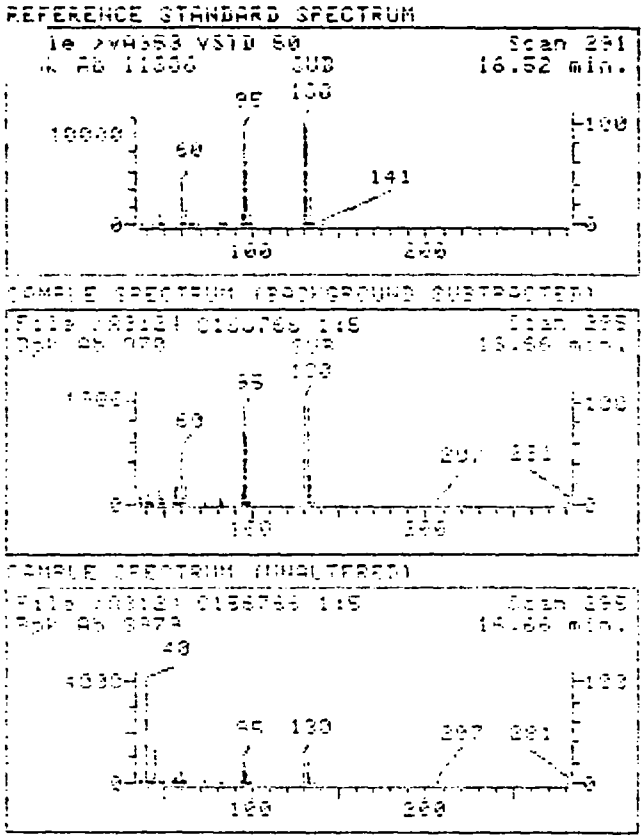
Quant Output File: ^A3124::SS

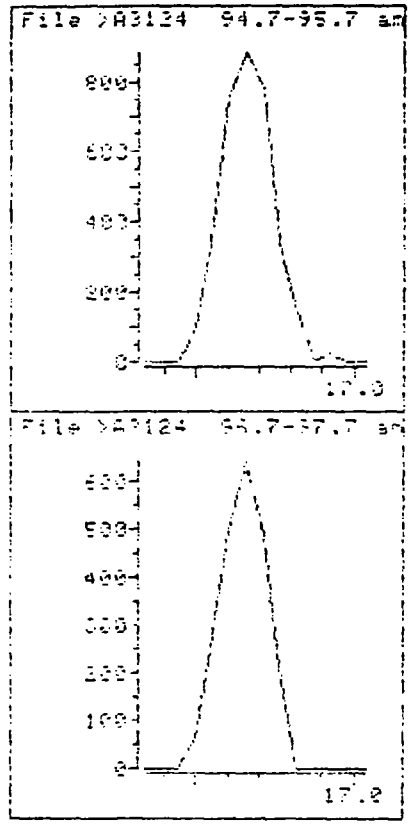
Quant ID File: IDSVCA::D5
Last Calibration: 940527 10:57

Compound No: 20
Compound Name: 2-Butanone
Scan Number: 214
Retention Time: 12.28 min.
Quant Ion: 43.0
Area: ~~[illegible]~~ 2867
Concentration: ~~[illegible]~~ UG/KG 5.95
q-value: 89

OK
CES
5/27/94

001080





Data File: >A3124::E6
Name: U156766 1:5
Misc: IG SAMPLE - HPE/BM
Quant Time: 940527 11:06
Injected at: 940527 10:27

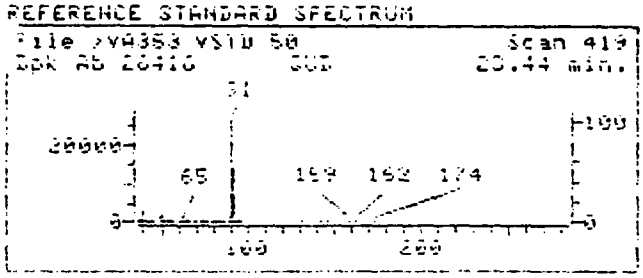
Quant Output File: ^A3124::SS

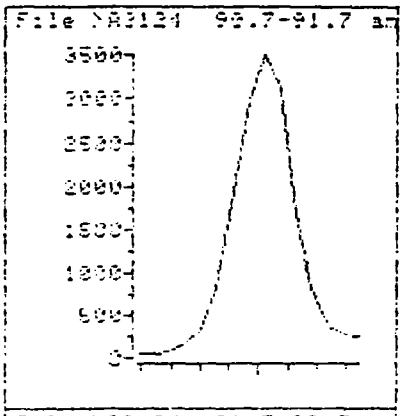
Quant IO File: IOSUDA::D5
Last Calibration: 940527 10:57

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 295
Retention Time: 16.66 min.
Quant Ion: 95.0
Area: 10872
Concentration: 6.92 UG/KG
q-value: 89

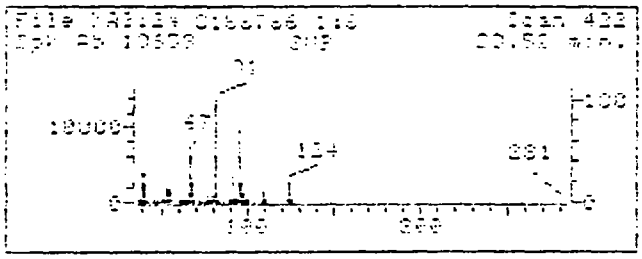
OK
GES
5/27/94

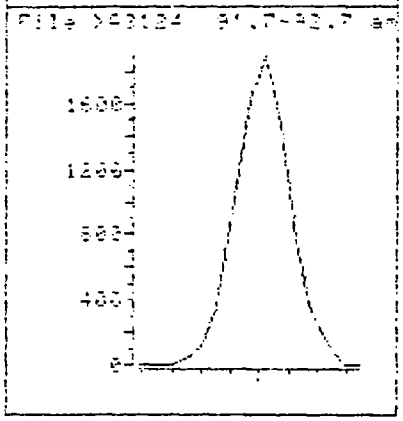
REFERENCE STANDARD SPECTRUM



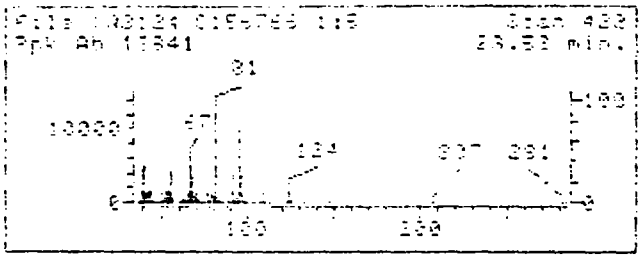


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNSUBTRACTED)



Data File: >A3124::S6
Name: C156766 1:6
Misc: 1G SAMPLE - HRE/BM
Quant Time: 940527 11:06
Injected at: 940527 11:27

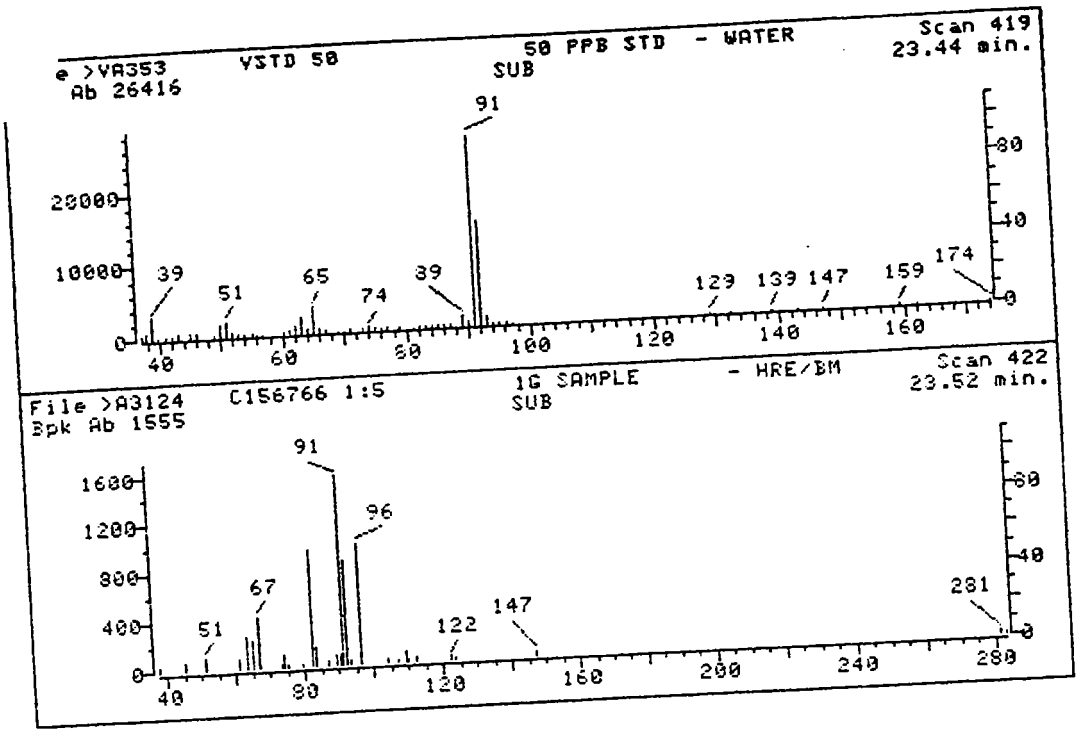
Quant Output File: ^A3124::S6

Quant ID File: 108UUA::D6
Last Calibration: 940527 10:57

Compound No: 41
Compound Name: Toluene
Scan Number: 422
Retention Time: 23.52 min.
Quant Ion: 92.0
Area: 95474
Concentration: 12.06 UG/KG
q-value: 88

~~BAD HIT~~ OK✓
SKS

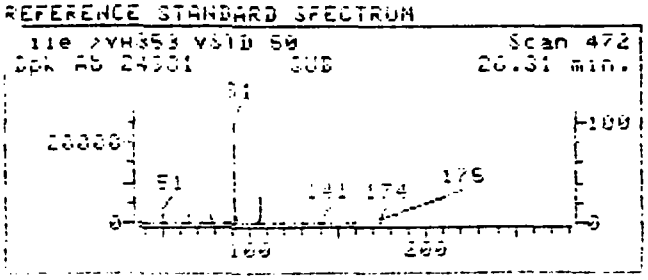
see next page



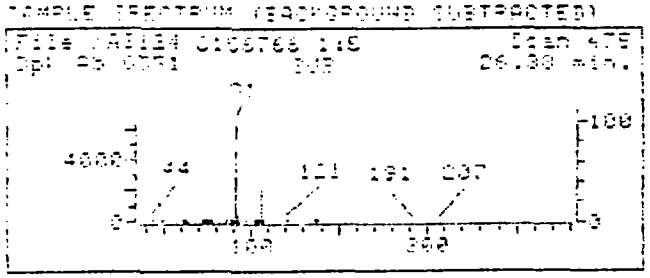
41) Toluene RT:23.52 Area: 25034 12.06 UG/KG

✓
SS

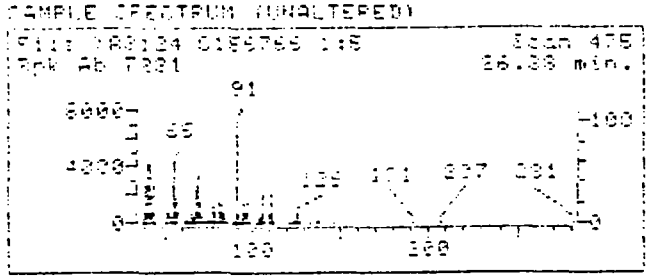
REFERENCE STANDARD SPECTRUM

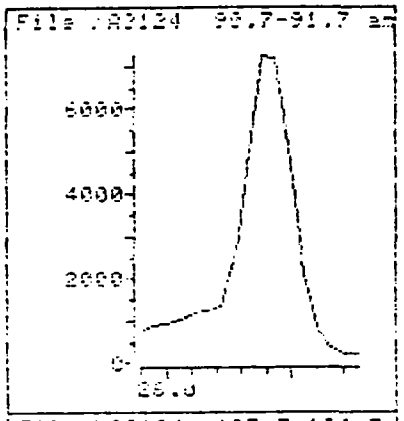


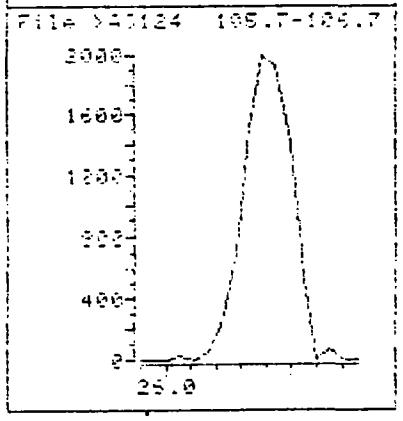
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







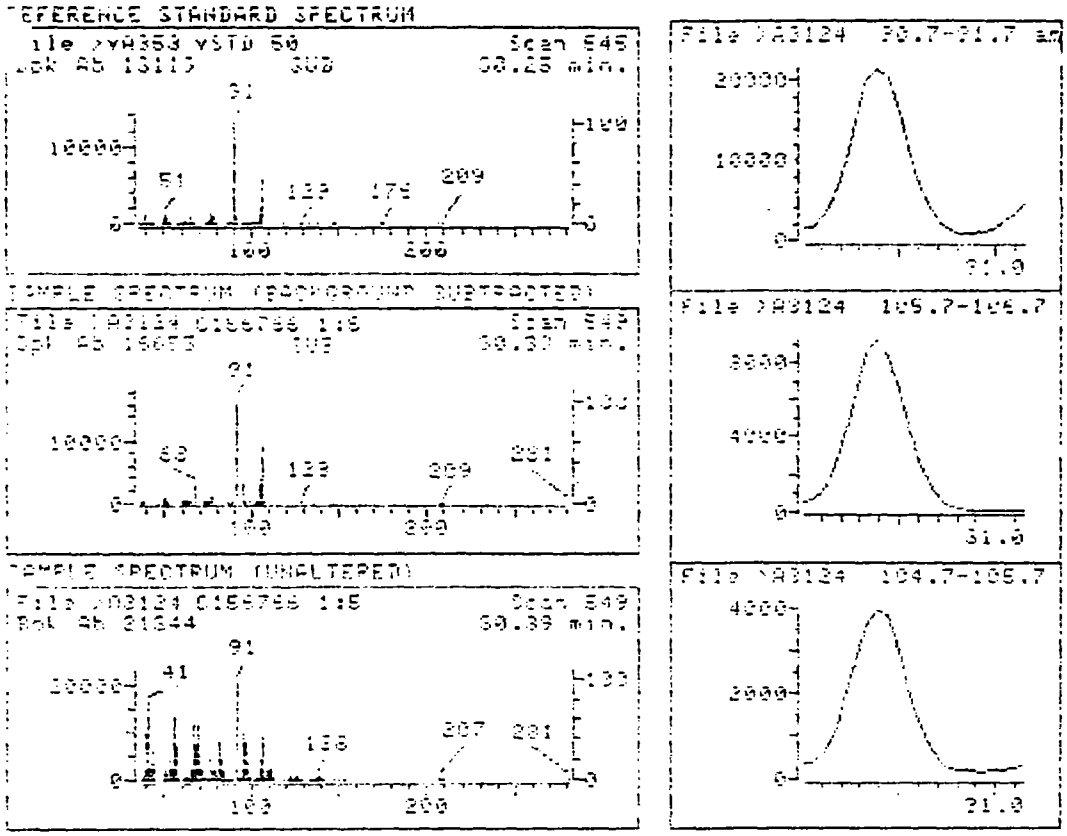
Data File: >A3124::E6
Name: C196766 1:5
Misc: 1G SAMPLE - HPE/9M
Quant Time: 940527 11:06
Injected at: 940527 10:27

Quant Output File: ^A3124::S5

Quant ID File: 105U0A::D5
Last Calibration: 940527 10:42

Compound No: 43
Compound Name: Ethyl Benzene
Scan Number: 475
Retention Time: 26.38 min.
Quant Ion: 106.0
Area: 27429
Concentration: 20.64 UG/KG
q-value: 92

OK
CES
5/27/94



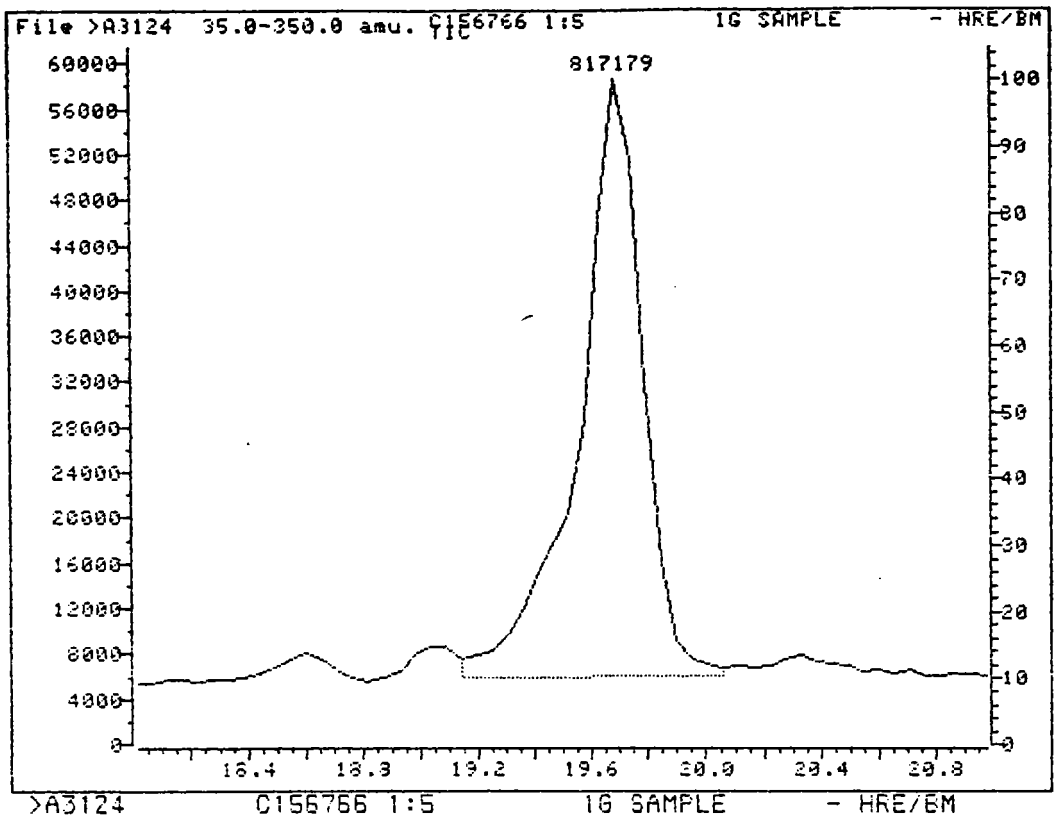
Data File: >A3124::E6
Name: U156766 1:5
Misc: 1G SAMPLE - HPE/BM
Quant Time: 940527 11:06
Injected at: 940527 10:27

Quant Output File: ^A3124::SS

Quant ID File: IUSUC4::D6
Last Calibration: 940527 10:57

Compound No: 46
Compound Name: Total Xylenes
Scan Number: 549
Retention Time: 30.39 min.
Quant Ion: 106.0
Area: ~~[illegible]~~ 371755
Concentration: ~~[illegible]~~ 64 UG/KG
q-value: 99 239.39

OK
CES
5/27/94

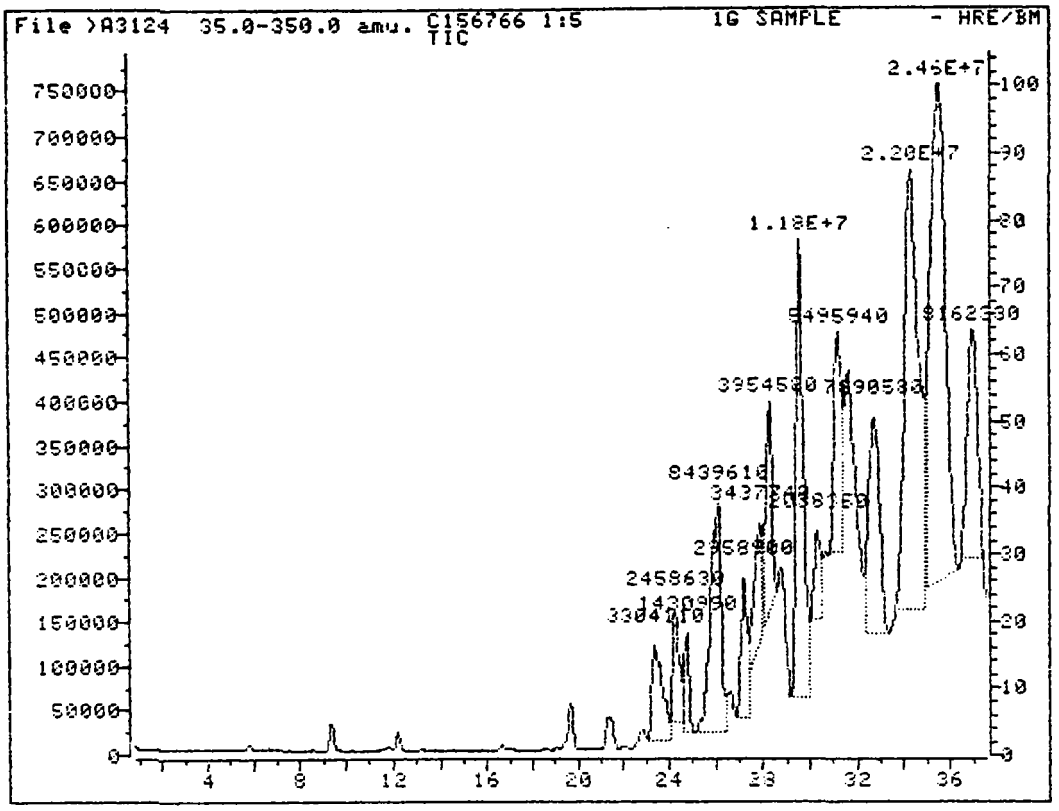


>A3124 C156766 1:5 IG SAMPLE - HRE/BM
35.0: 350.0 TIC

Upslope: .20 Area Reject: 5.00 % Max Peaks: 1 Bunching: 1
Dnslope: 0.00 Results File VDIR80 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	19.68	341	351	358	52695	1149350	817179	100.00	100.000

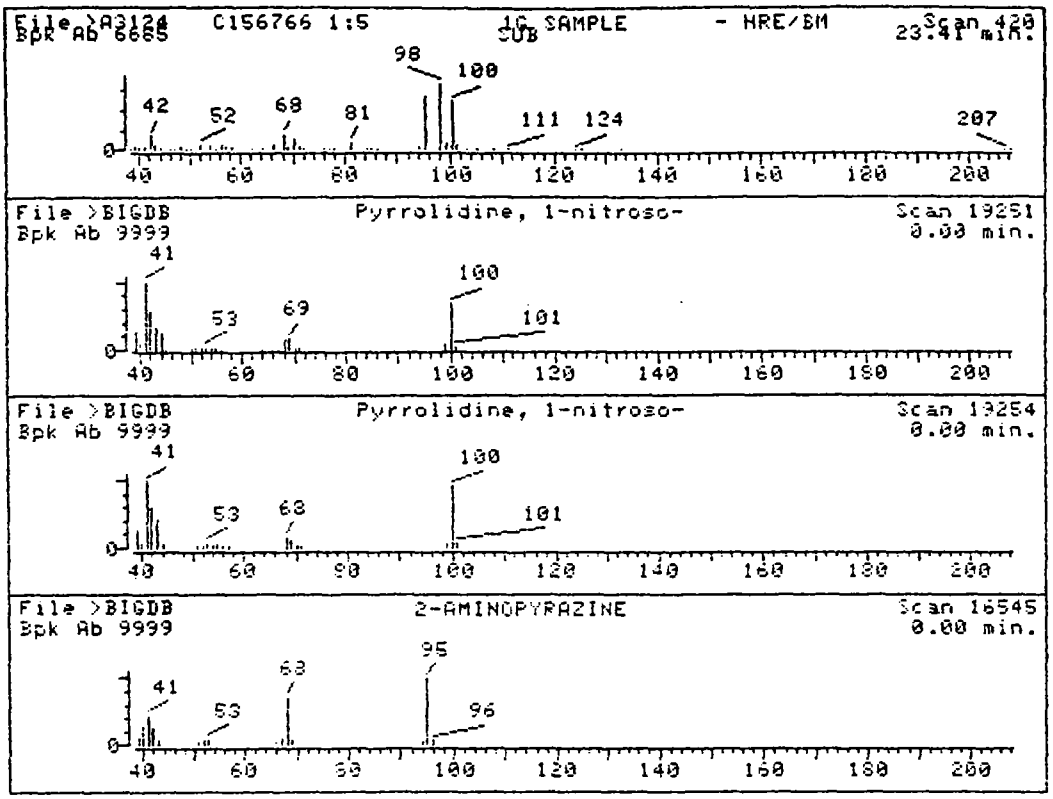
Sum of corrected areas: 817179.



>A3124 C156766 1:5 1G SAMPLE - HRE/BM
35.0! 350.0 TIC
Upslope: .20 Area Reject: 5.00 % Max Peaks: 14 Bunching: -1
Dnslope: 0.00 Results File VDIR80 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	23.41	414	420	432	104868	4298626	3304115	13.41	3.061
2	24.28	432	436	442	128084	3666551	2458637	9.98	2.278
3	24.76	442	445	451	111003	2171628	1430996	5.81	1.326
4	26.11	452	470	476	258103	10418292	8439610	34.26	7.819
5	27.19	484	490	494	157706	4332391	2958905	12.01	2.741
6	27.90	495	503	505	167950	7122454	3437740	13.96	3.185
7	28.28	506	510	515	257047	8728326	3954581	16.05	3.664
8	29.57	526	534	542	515652	15171360	~~11763582~~	47.75	10.898
9	30.33	543	548	552	99259	6529710	~~2038352~~	8.27	1.888
10	31.20	558	564	568	249219	12955168	5495942	22.31	5.092
11	32.71	585	592	603	245865	15872630	7890588	32.03	7.310
12	34.33	609	622	633	497428	34789984	21970088	89.19	20.354
13	35.47	635	643	659	567449	40085328	24634136	100.00	22.822
14	36.99	662	671	679	258836	20458424	8162332	33.13	7.562

Sum of corrected areas: 107939630.



Unknown

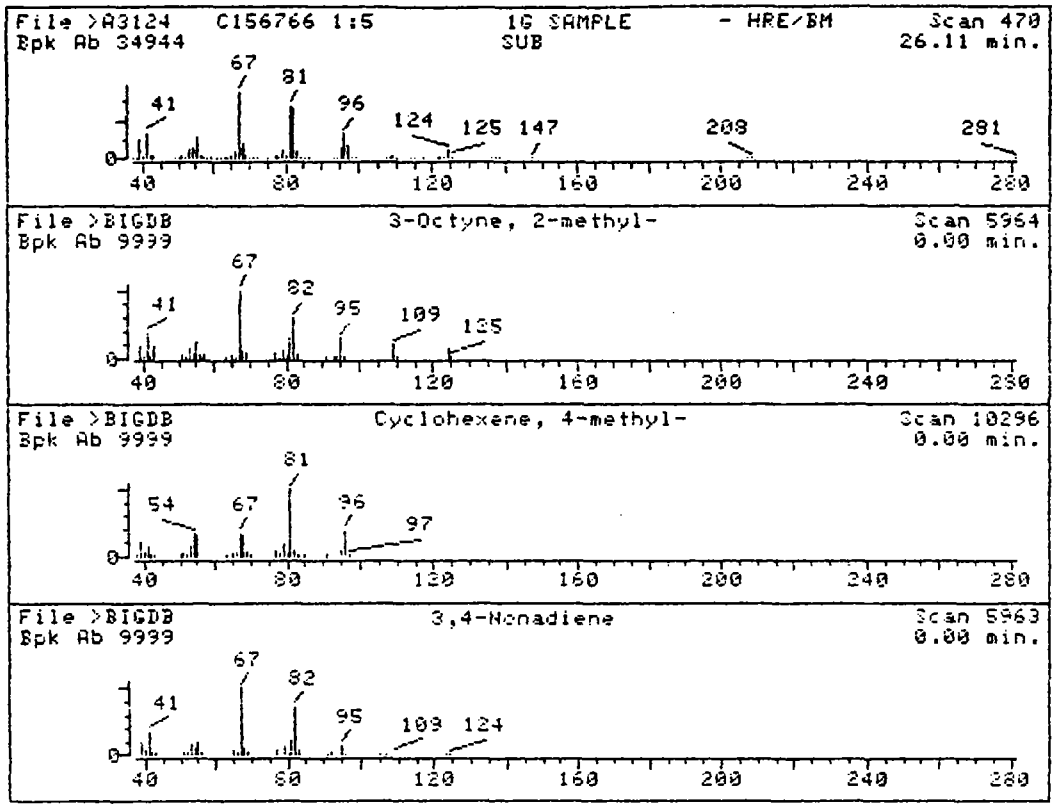
1. Pyrrolidine, 1-nitroso-	100	C4H8N2O
2. Pyrrolidine, 1-nitroso-	100	C4H8N2O
3. 2-AMINOPYRAZINE	95	C4H5N3
4. 2(3H)-Furanone, 5-methyl-	98	C5H6O2
5. Pyrrolidine, 1-nitroso-	100	C4H8N2O

Sample file: >A3124 Spectrum #: 420
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	930552	19251	"BIGDB	22	75	3	0	106	60	3	12
2.	11*	930552	19254	"BIGDB	40	54	3	0	79	63	2	13
3.	11*	5049616	16545	"BIGDB	25	66	3	0	81	65	2	13
4.	11*	591128	17933	"BIGDB	29	71	2	0	93	63	2	14
5.	11*	930552	19250	"BIGDB	26	68	3	0	79	63	2	13

$$\text{conc} = \frac{3304115}{8171789} \times \frac{250}{(5)(1)} = 202 \text{ ug/kg}$$

SKS
4/1/94



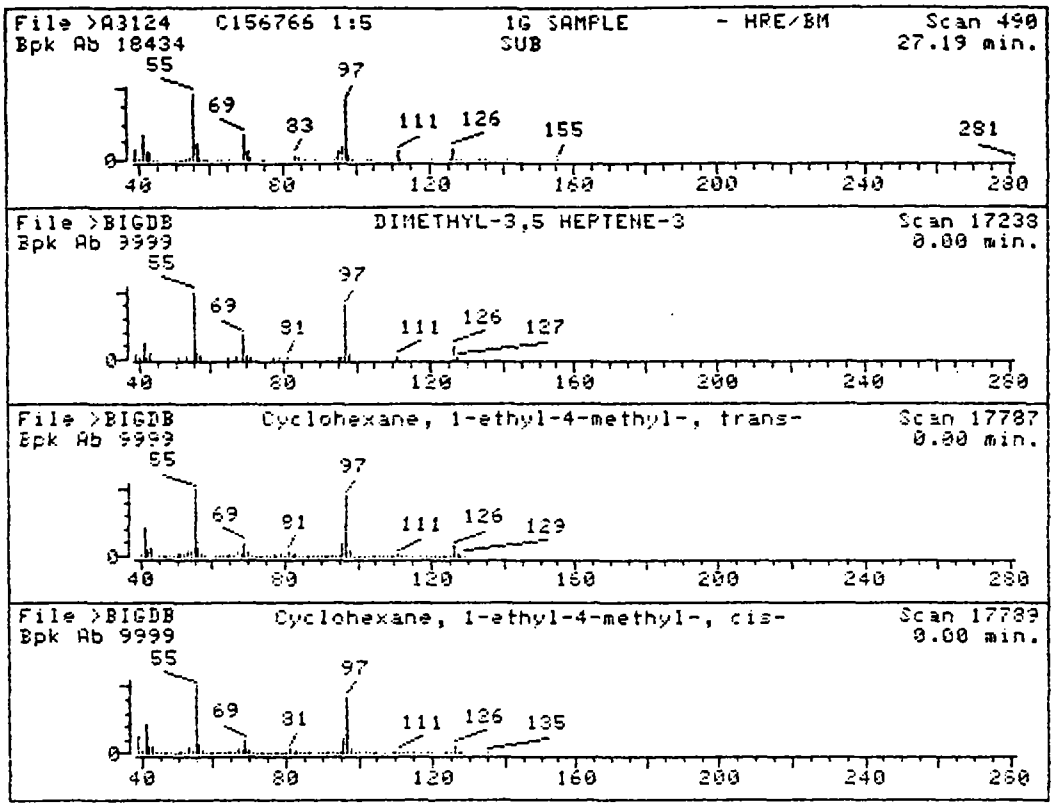
Unknown Hydrocarbon

1. 3-Octyne, 2-methyl-	124	C9H16
2. Cyclohexene, 4-methyl-	96	C7H12
3. 3,4-Nonadiene	124	C9H16
4. 1,3-PENTADIENE, 4-METHYL-	82	C6H10
5. 1,3-PENTADIENE, 2-METHYL-, TRANS	82	C6H10

Sample file: >A3124 Spectrum #: 470
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	41*	55402158	5964	"BIGDB	53	46	2	0	85	38	14	28
2.	35*	591479	10296	"BIGDB	46	52	0	0	54	54	10	54
3.	30	37050036	5963	"BIGDB	48	43	1	0	85	44	8	18
4.	29*	0	5793	"BIGDB	35	57	2	0	100	42	8	17
5.	29*	0	5792	"BIGDB	35	57	2	0	100	42	8	17

$$\text{conc.} = \frac{8439610}{817179} \times \frac{250}{(5)(1)} = 516 \text{ ug/kg}$$



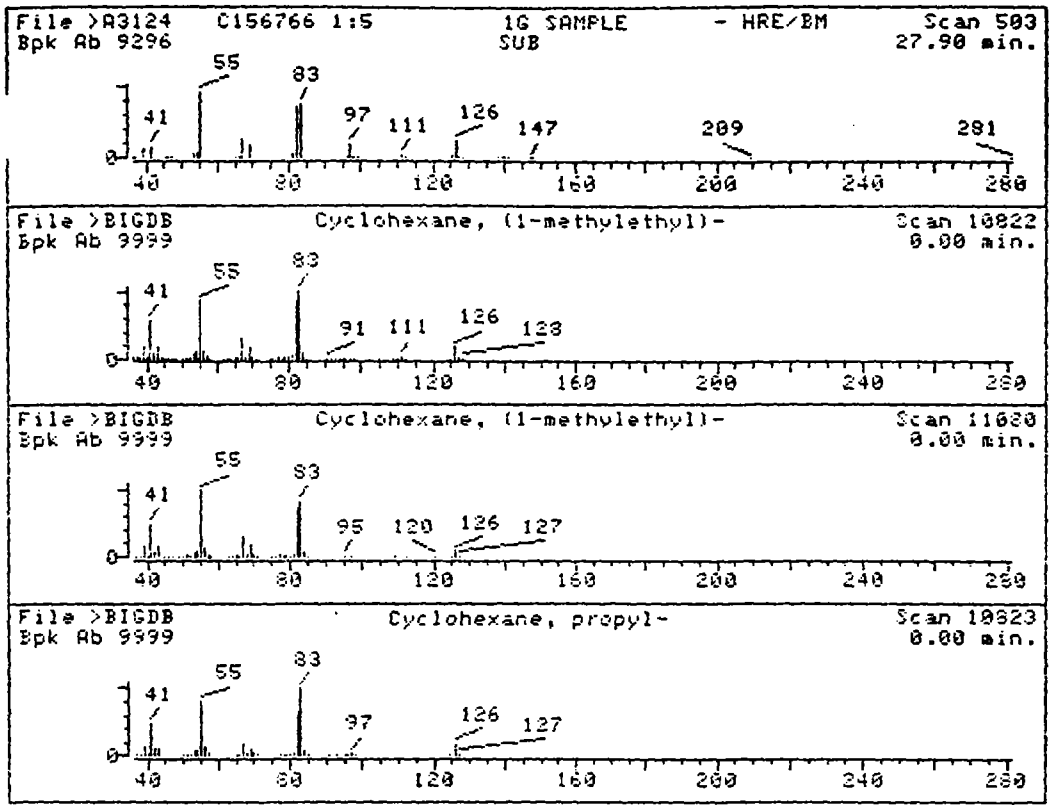
Unknown C9 Hydrocarbon

1. DIMETHYL-3,5 HEPTENE-3 126 C9H18
2. Cyclohexane, 1-ethyl-4-methyl-, trans- 126 C9H18
3. Cyclohexane, 1-ethyl-4-methyl-, cis- 126 C9H18
4. Cyclohexane, 1-ethyl-1-methyl- 126 C9H18
5. Cyclohexane, 1-ethyl-2-methyl-, cis- 126 C9H18

Sample file: >A3124 Spectrum #: 490
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	62*	0	17238	"BIGDB	51	37	1	0	86	29	25	42
2.	59*	6236880	17787	"BIGDB	56	38	2	0	96	23	27	38
3.	55*	4926787	17789	"BIGDB	49	46	2	0	80	23	22	27
4.	49*	4926903	17231	"BIGDB	47	44	2	0	89	27	19	27
5.	48*	4923777	17785	"BIGDB	39	53	2	0	76	24	17	19

$$\text{conc.} = \frac{2958905}{817179} \times \frac{250}{(5)(1)} = 181 \text{ ug/kg}$$



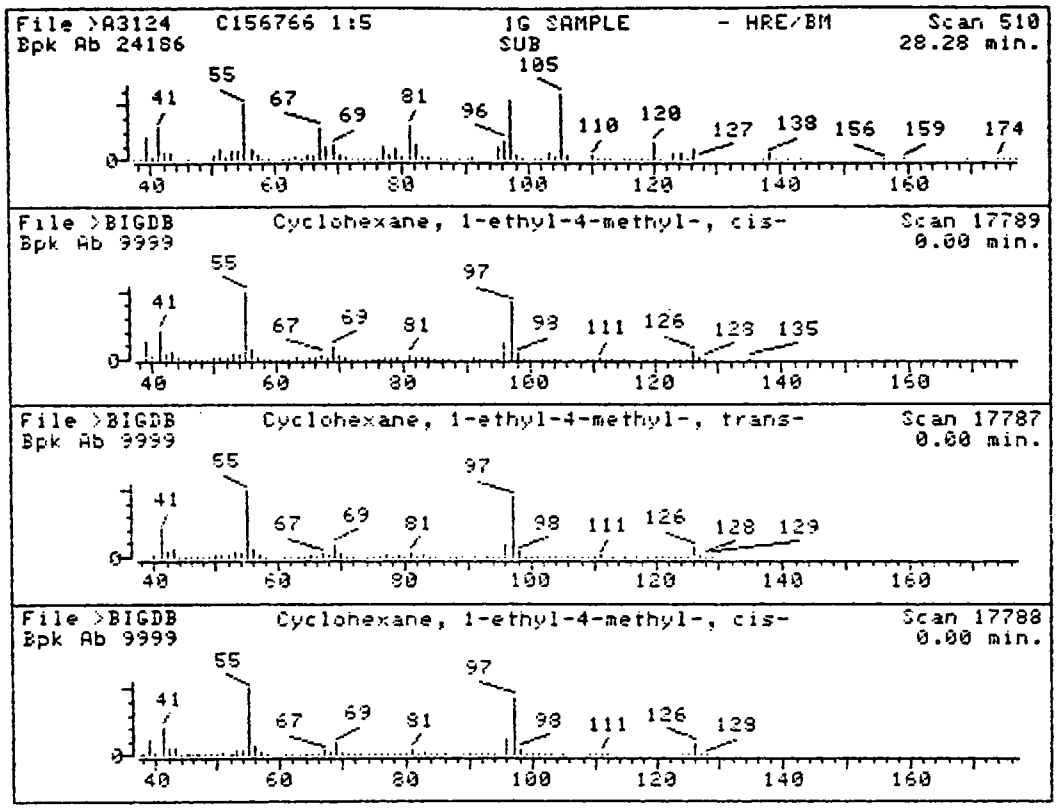
Unknown C9 Hydrocarbon

1. Cyclohexane, (1-methylethyl)-	126	C9H18
2. Cyclohexane, (1-methylethyl)-	126	C9H18
3. Cyclohexane, propyl-	126	C9H18
4. Cyclohexane, propyl-	126	C9H18
5. 2-Hepten-4-one, 2-methyl-	126	C8H14O

Sample file: >A3124 Spectrum #: 503
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	696297	10822	"BIGDB	51	52	3	0	81	15	30	14
2.	52*	696297	11080	"BIGDB	41	53	3	0	97	20	20	14
3.	42*	1678928	10823	"BIGDB	26	70	3	0	81	22	17	13
4.	26*	1678928	11081	"BIGDB	22	74	3	0	81	36	10	12
5.	20*	22319240	10817	"BIGDB	23	64	2	0	81	55	5	13

$$\text{conc} = \frac{3437740}{817179} \times \frac{250}{(5)(1)} = 210 \text{ ug/kg}$$



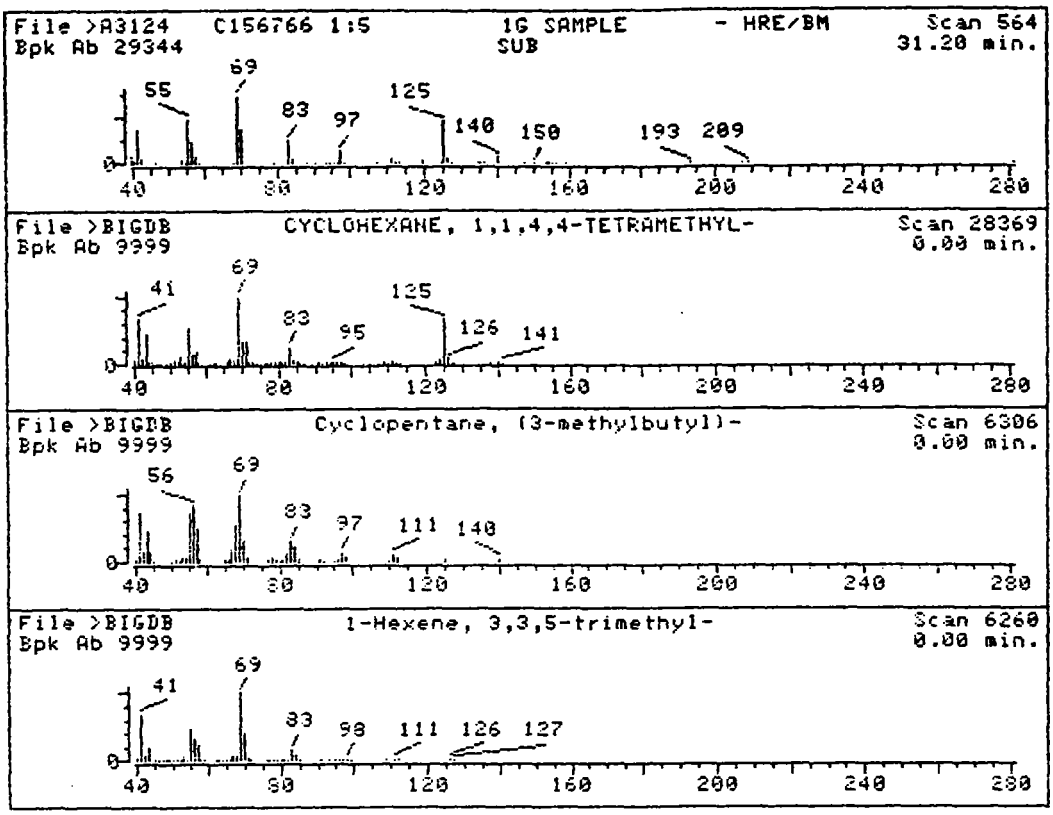
Unknown Hydrocarbon

1. Cyclohexane, 1-ethyl-4-methyl-, cis- 126 C9H18
2. Cyclohexane, 1-ethyl-4-methyl-, trans- 126 C9H18
3. Cyclohexane, 1-ethyl-4-methyl-, cis- 126 C9H18
4. Cyclohexane, 1-ethyl-2-methyl-, cis- 126 C9H18
5. Cyclohexane, 1-ethyl-4-methyl-, cis- 126 C9H18

Sample file: >A3124 Spectrum #: 510
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	4926787	17789	"BIGDB	78	17	1	0	107	45	33	80
2.	67*	6236880	17787	"BIGDB	64	30	0	0	83	50	20	77
3.	61*	4926787	17788	"BIGDB	68	28	1	0	83	45	18	66
4.	51*	4923777	17785	"BIGDB	63	29	0	0	71	54	16	76
5.	50	4926787	17235	"BIGDB	72	19	0	0	83	48	14	60

$$\text{conc.} = \frac{3954581}{817179} \times \frac{250}{(5)(1)} = 242 \text{ ug/kg}$$



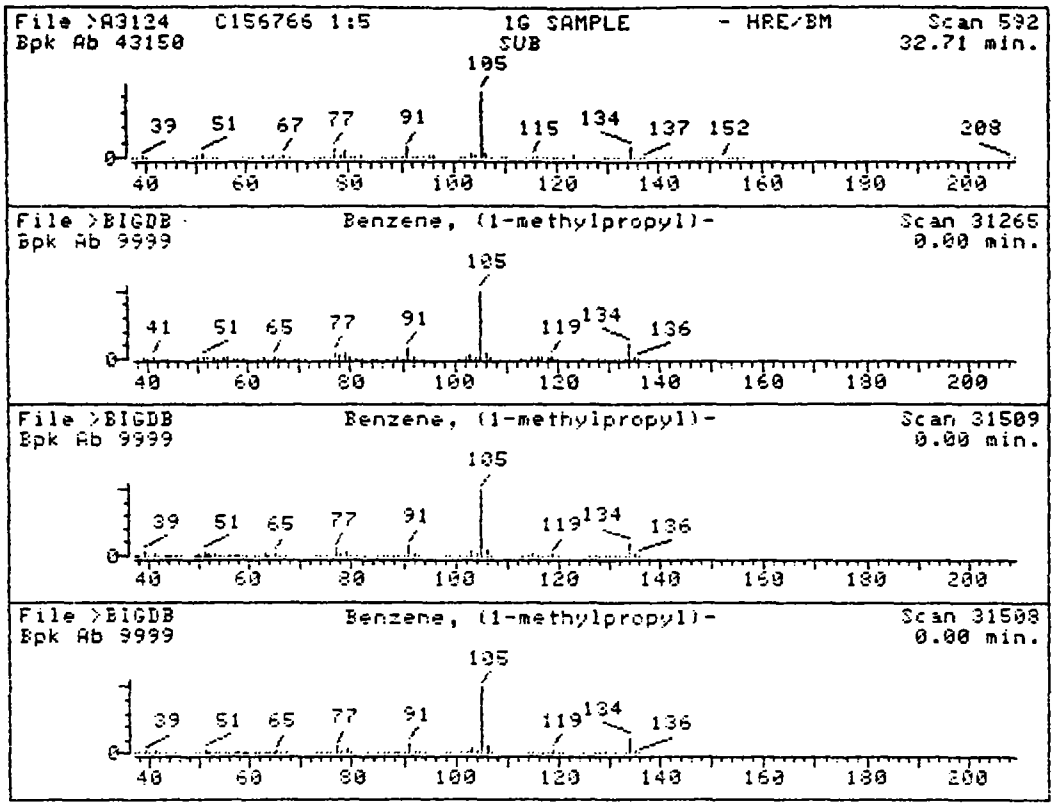
Unknown Hydrocarbon

1. CYCLOHEXANE, 1,1,4,4-TETRAMETHYL- 140 C10H20
2. Cyclopentane, (3-methylbutyl)- 140 C10H20
3. 1-Hexene, 3,3,5-trimethyl- 126 C9H18
4. 3-Octene, 2,6-dimethyl- 140 C10H20
5. 1-Hexene, 3,5,5-trimethyl- 126 C9H18

Sample file: >A3124 Spectrum #: 564
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	37*	0	28369	"BIGDB	30	77	2	0	69	26	14	14
2.	35*	1005681	6306	"BIGDB	23	88	3	0	100	30	14	12
3.	35*	13427435	6260	"BIGDB	46	46	3	0	100	33	12	18
4.	35*	6874288	6302	"BIGDB	54	54	2	0	61	46	11	31
5.	34*	4316658	6255	"BIGDB	46	47	3	0	100	32	12	17

$$\text{conc} = \frac{5495942}{817179} \times \frac{250}{(5)(1)} = 336 \text{ ug/kg}$$

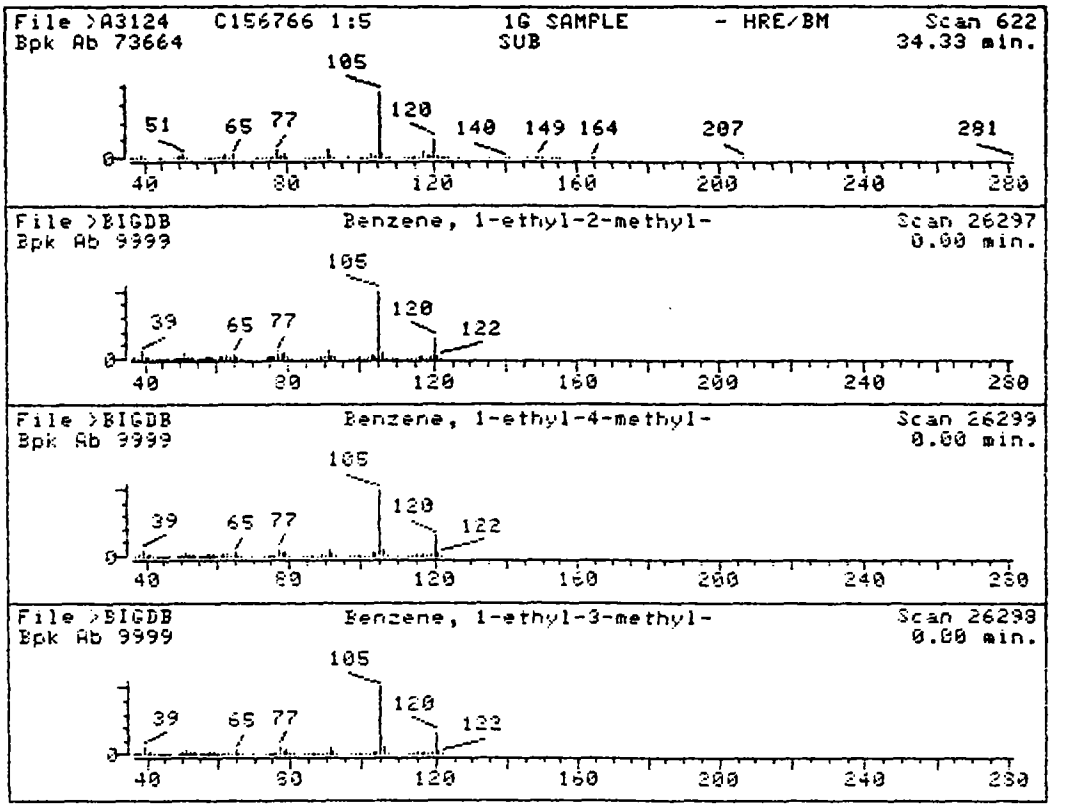


1. Benzene, (1-methylpropyl)-	134	C10H14
2. Benzene, (1-methylpropyl)-	134	C10H14
3. Benzene, (1-methylpropyl)-	134	C10H14
4. Benzene, 1-methyl-4-propyl-	134	C10H14
5. Benzene, 1-methyl-2-propyl-	134	C10H14

Sample file: >A3124 Spectrum #: 592
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	135988	31265	"BIGDB	77	6	1	0	82	11	64	94
2.	94*	135988	31509	"BIGDB	71	15	0	0	79	11	64	95
3.	92*	135988	31508	"BIGDB	73	12	1	0	80	11	64	92
4.	86*	1074551	31267	"BIGDB	61	22	0	0	71	20	50	80
5.	79*	1074175	31511	"BIGDB	53	32	2	0	86	9	48	36

$$\text{conc} = \frac{7890588}{817179} \times \frac{250}{(5)(1)} = 480\ \text{ug/kg}$$

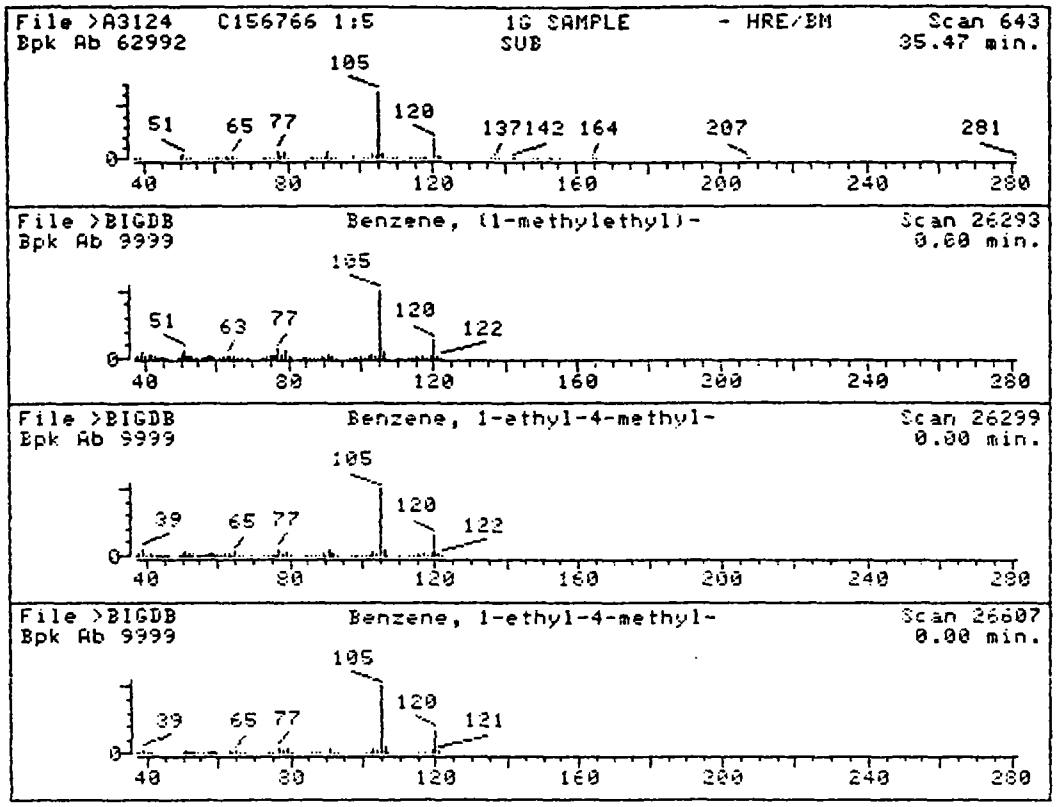


1. Benzene, 1-ethyl-2-methyl-	120	C9H12
2. Benzene, 1-ethyl-4-methyl-	120	C9H12
3. Benzene, 1-ethyl-3-methyl-	120	C9H12
4. Benzene, (1-methylethyl)-	120	C9H12
5. Benzene, (1-methylethyl)-	120	C9H12

Sample file: >A3124 Spectrum #: 622
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	611143	26297	"BIGDB	80	5	0	0	99	16	60	97
2.	96*	622968	26299	"BIGDB	79	6	0	0	97	16	60	97
3.	94*	620144	26298	"BIGDB	75	12	0	0	76	16	60	95
4.	86*	98828	26591	"BIGDB	65	22	0	0	71	18	50	80
5.	81*	98828	26293	"BIGDB	69	18	1	0	83	16	45	77

$$\text{conc.} = \frac{21970088}{817179} \times \frac{250}{(5)(1)} = 1344 \text{ ug/kg}$$

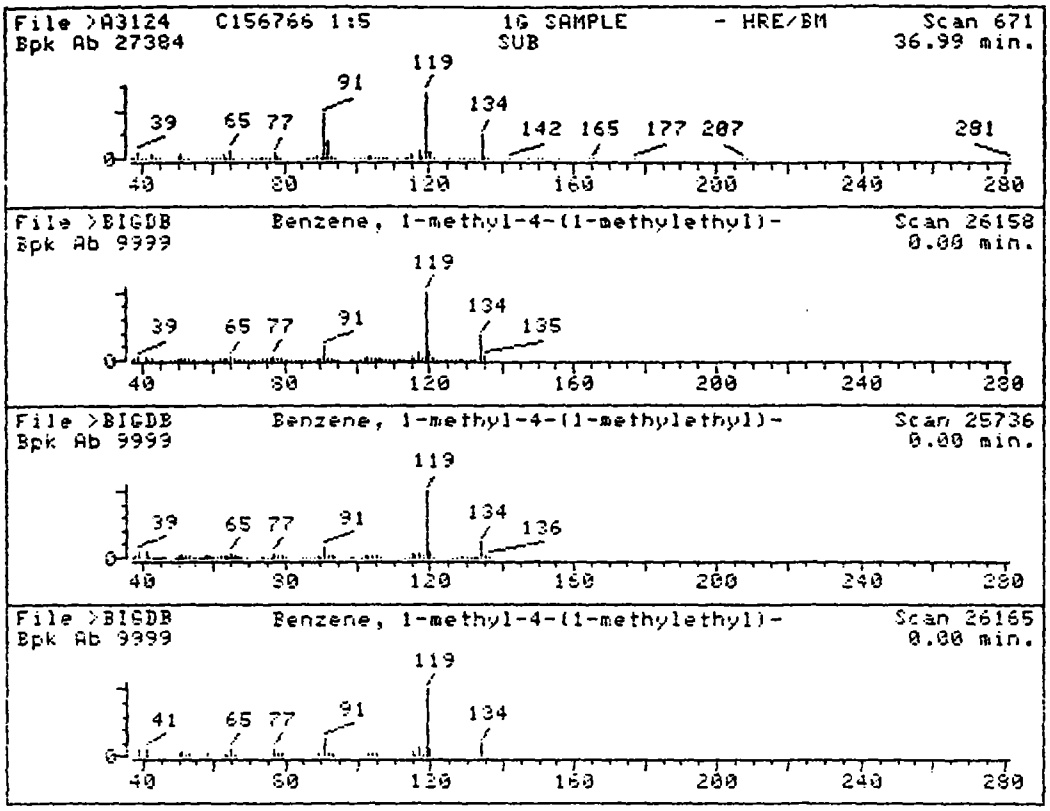


1.	Benzene, (1-methylethyl)-	120	C9H12
2.	Benzene, 1-ethyl-4-methyl-	120	C9H12
3.	Benzene, 1-ethyl-4-methyl-	120	C9H12
4.	Benzene, 1-ethyl-3-methyl-	120	C9H12
5.	Benzene, 1-ethyl-3-methyl-	120	C9H12

Sample file: >A3124 Spectrum #: 643
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	98828	26293	"BIGDB	74	13	1	0	78	5	72	92
2.	84*	622968	26299	"BIGDB	73	12	2	0	93	9	55	66
3.	83*	622968	26607	"BIGDB	66	17	2	0	84	7	54	56
4.	83*	620144	26606	"BIGDB	64	25	2	0	84	9	54	53
5.	81*	620144	26298	"BIGDB	57	30	2	0	85	9	53	43

$$\text{conc.} = \frac{24634136}{817179} \times \frac{250}{(5)(1)} = 1507\ \mu g/kg$$



Unknown C_{10} Hydrocarbon

1. Benzene, 1-methyl-4-(1-methylethyl)- 134 C10H14
2. Benzene, 1-methyl-4-(1-methylethyl)- 134 C10H14
3. Benzene, 1-methyl-4-(1-methylethyl)- 134 C10H14
4. Benzene, 1-methyl-3-(1-methylethyl)- 134 C10H14
5. Benzene, 1-methyl-4-(1-methylethyl)- 134 C10H14

Sample file: >A3124 Spectrum #: 671
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	99876	26158	"BIGDB	67	25	0	0	98	14	55	80
2.	83*	99876	25736	"BIGDB	63	26	0	0	100	14	51	76
3.	82*	99876	26165	"BIGDB	66	28	0	0	74	23	41	78
4.	81*	535773	26167	"BIGDB	66	23	0	0	100	17	45	78
5.	81*	99876	26166	"BIGDB	55	27	0	0	87	20	45	72

$$= \frac{8162332}{817179} \times \frac{250}{(5)(1)} = 499 \text{ ug/kg}$$

QUANT REPORT

Operator ID: [illegible] Quant Rev: 6 Quant Time: [illegible] 11:51
Output File: [illegible] Injected at: [illegible] 11:12
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible]
Misc: [illegible] SAMPLE - [illegible]

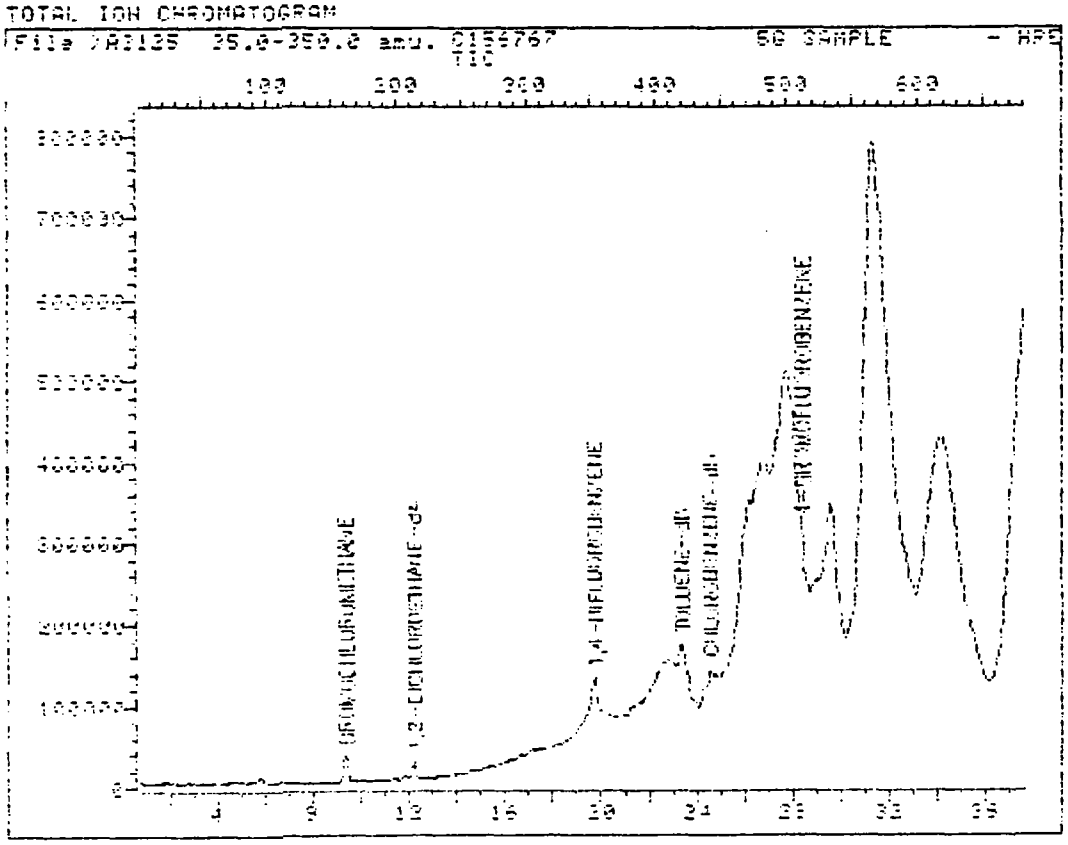
OK GES 5/27/94

ID File: [illegible]
Title: QUANTITATION FILE FOR VOLATILE [illegible]
Last Calibration: [illegible]

	Compound	R.T.	Q Ion	Area	Conc	Units	Q
[illegible]	*[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Methylene [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Acetone	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	*[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	*[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Total [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Compound is [illegible]

TOTAL ION CHROMATOGRAM

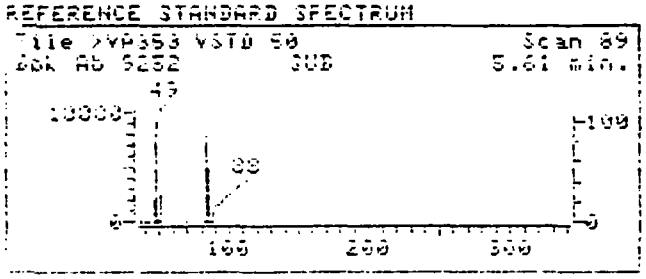


Data File: >A3125::E6 Quant Output File: ^A3125::SS
Name: C156767
Misc: SG SAMPLE - HPE/SM

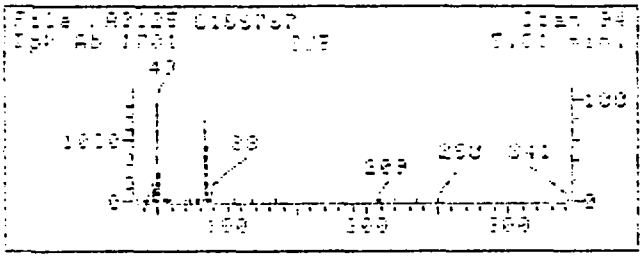
Id File: 10900A::09
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 11:51
Injected at: 940527 11:12

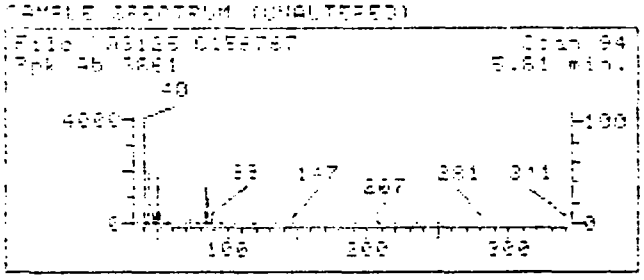
REFERENCE STANDARD SPECTRUM

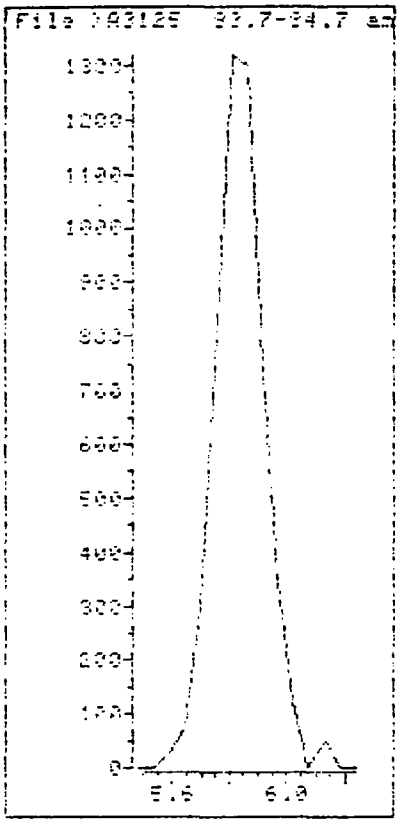


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNSUBTRACTED)



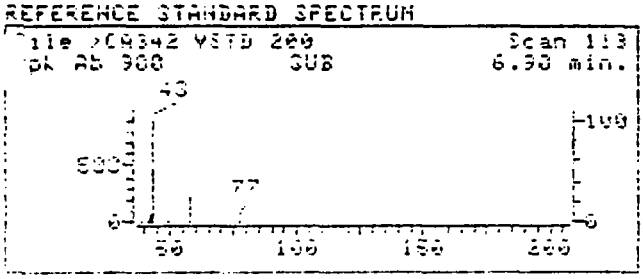


Data File: >A3125::E6 Quant Output File: ^A3125::SS
Name: 0156767
Misc: SS SAMPLE - HPE/BM
Quant Time: 940527 11:51 Quant IU File: IUSUOA::DS
Injected at: 940527 11:12 Last Calibration: 940527 10:57

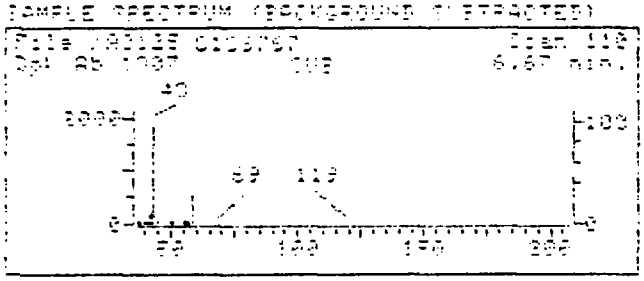
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 94
Retention Time: 5.81 min.
Quant Ion: 84.0
Area: 16250
Concentration: 13.11 UG/KG
q-value: 100

ok
RES
5/27/94

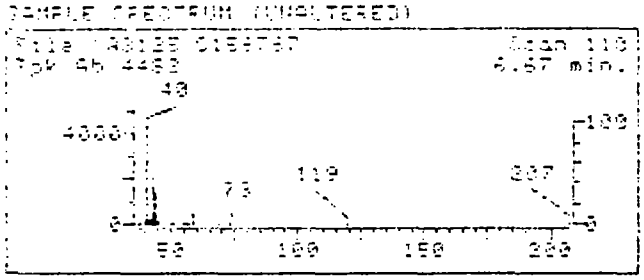
REFERENCE STANDARD SPECTRUM

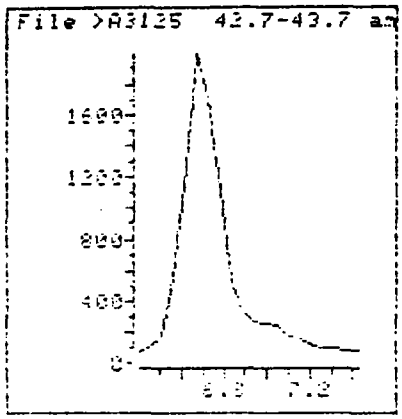


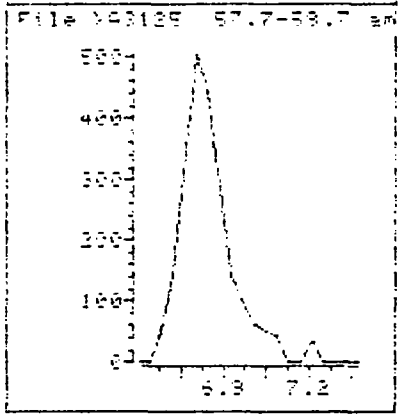
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNAULTERED)







Data File: >A3125::E6
Name: 0156767
Misc: SS SAMPLE - HRE/BM
Quant Time: 940527 11:51
Injected at: 940527 11:12

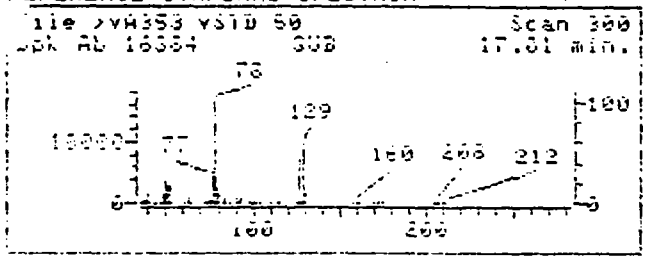
Quant Output File: ^A3125::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

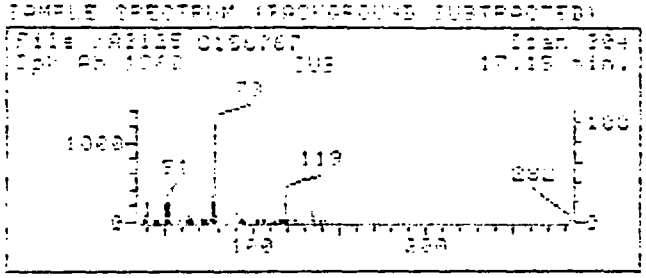
Compound No: 8
Compound Name: Acetone
Scan Number: 110
Retention Time: 6.67 min.
Quant Ion: 43.0
Area: 25777
Concentration: 74.78 UG/KG
q-value: 91

OK
GES
5/27/94

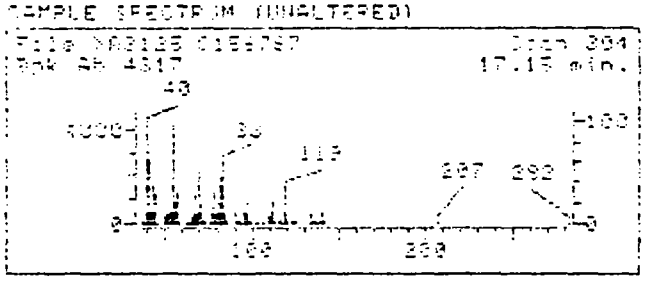
REFERENCE STANDARD SPECTRUM

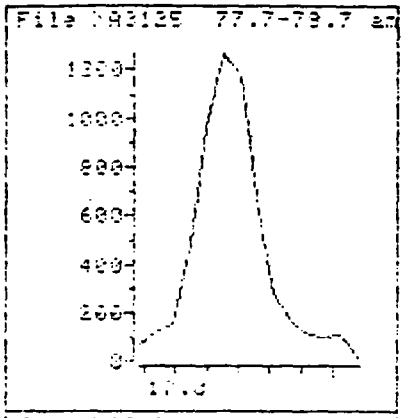


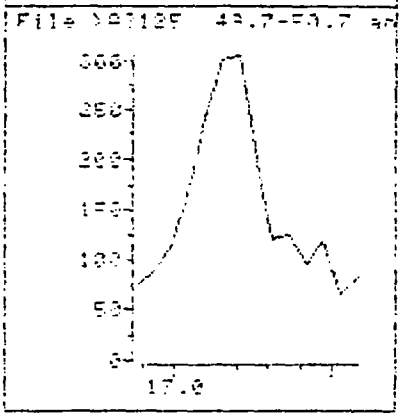
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







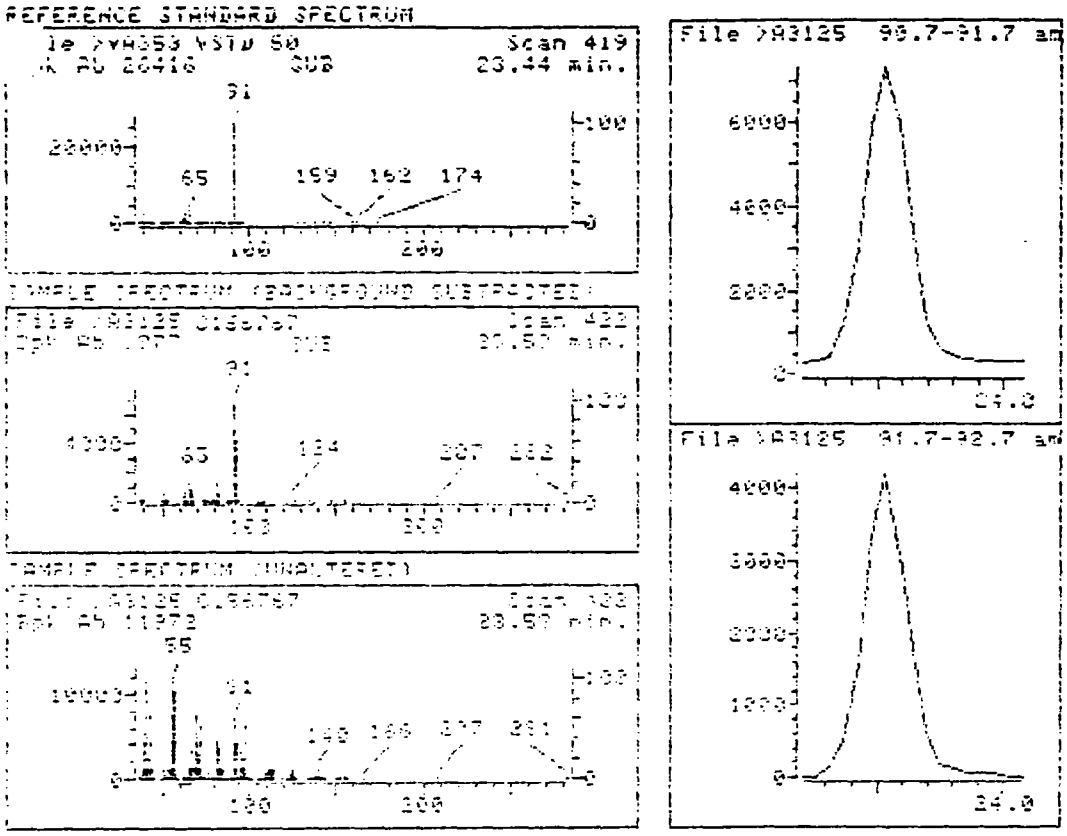
Data File: >A3125::E6
Name: C156767
Misc: 5G SAMPLE - HRS/BM
Quant Time: 940527 11:51
Injected at: 940527 11:12

Quant Output File: ^A3125::SS

Quant ID File: IDSUCA::D5
Last Calibration: 940527 10:57

Compound No: 29
Compound Name: Benzene
Scan Number: 304
Retention Time: 17.15 min.
Quant Ion: 78.0
Area: 17991
Concentration: 5.19 UG/KG
q-value: 98

OK
CES
5/27/94



Data File: >A3125::E6
Name: C156767
Misc: SG SAMPLE - PAE/BM
Quant Time: 940527 11:51
Injected at: 940527 11:12

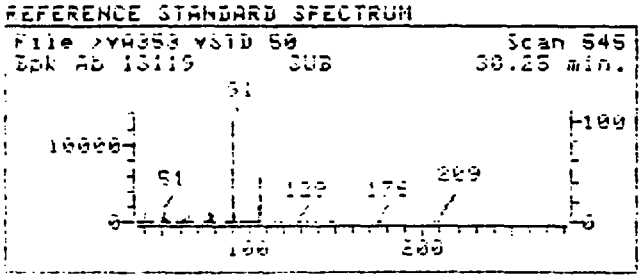
Quant Output File: ^A3125::SS

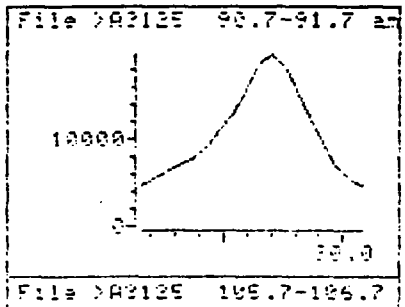
Quant IO File: IOSVOA::D6
Last Calibration: 940527 10:57

Compound No: 41
Compound Name: Toluene
Scan Number: 422
Retention Time: 23.53 min.
Quant Ion: 92.0
Area: 50977
Concentration: 26.38 UG/KG
q-value: 92

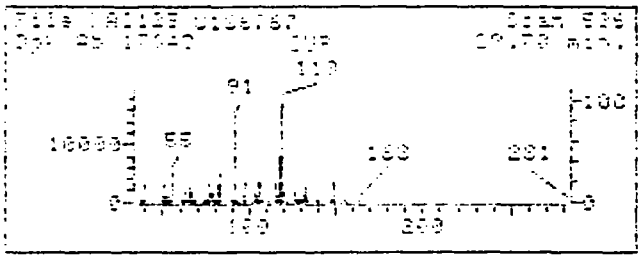
OK
CBS
5/27/94

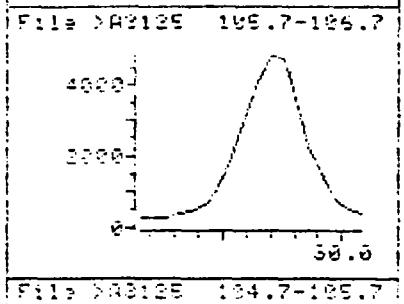
REFERENCE STANDARD SPECTRUM



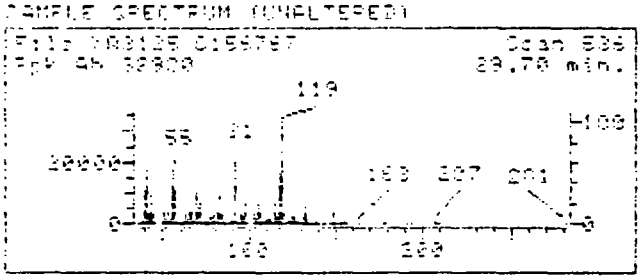


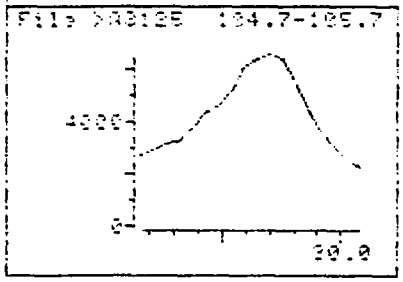
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





Data File: >A3125::E6
Name: C156767
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940527 11:51
Injected at: 940527 11:12

Quant Output File: ^A3125::SS

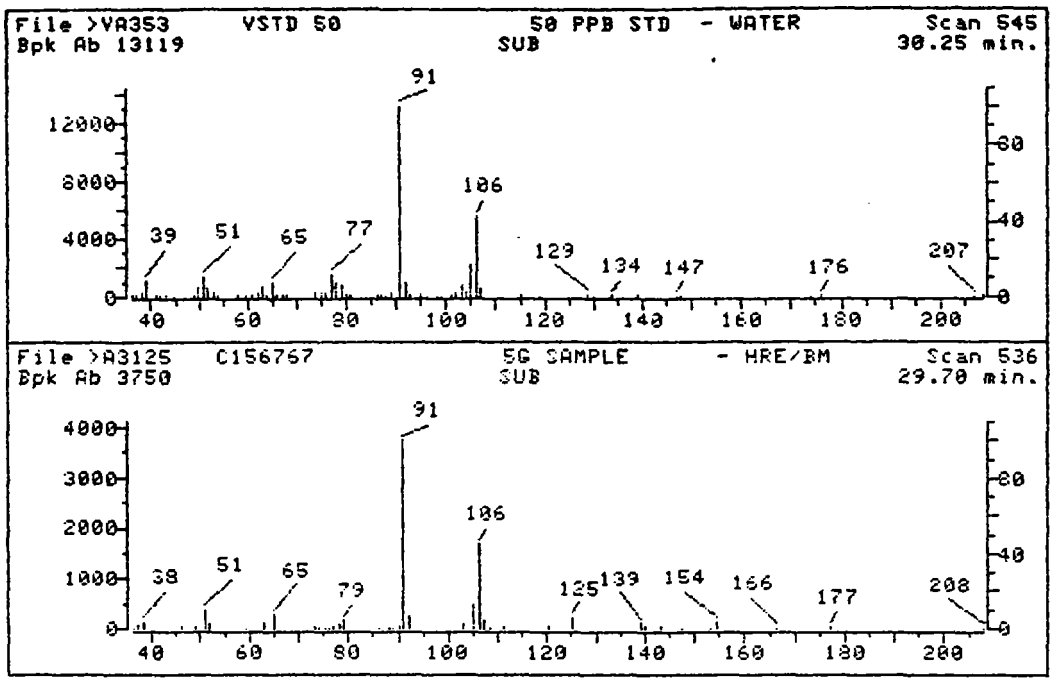
Quant IO File: IOSVOA::05
Last Calibration: 940527 10:57

Compound No: 46
Compound Name: Total Xylenes
Scan Number: 536
Retention Time: 29.70 min.
Quant Ion: 106.0
Area: 85179
Concentration: ~~[illegible].94~~ UG/KG
q-value: 69

132.83

see next page

BAD HIT SKS ✓ OK



46) Total Xylenes RT:29.70 Area: 85179 ~~53.84~~ UG/KG
132.83

SKS

QUANT REPORT

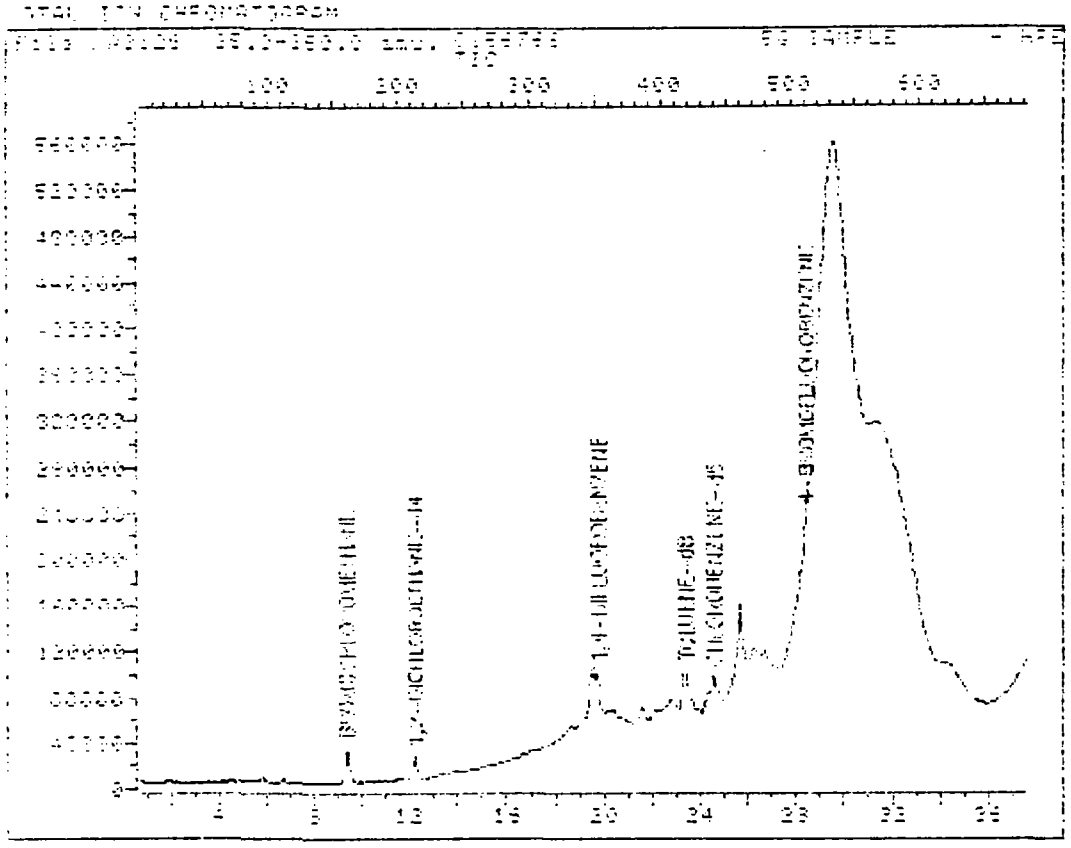
Operator ID: USER8 Quant Rev: 6 Quant Time: 940527 12:36
Output File: ^A3126::SS Injected at: 940527 11:57
Data File: >A3126::E6 Dilution Factor: 1.00000
Name: C156768
Misc: 5G SAMPLE - HRE/BM

GES 5/27/94

ID File: 1DSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.37	128.0	52518	50.00	UG/KG	100
7)	Methylene Chloride	5.81	84.0	15429	12.57	UG/KG	100
8)	Acetone	6.67	43.0	23258	68.15	UG/KG	91
18)	1,2-DICHLOROETHANE-d4	12.23	65.0	79558	46.98	UG/KG	96
21)	*1,4-DIFLUOROBENZENE	19.75	114.0	182308	50.00	UG/KG	91
28)	Trichloroethene	16.72	95.0	12950M	8.60	UG/KG	90
35)	*CHLOROBENZENE-d5	24.56	117.0	95775	50.00	UG/KG	91
40)	TOLUENE-d8	23.37	98.0	125545	63.09	UG/KG	93
41)	Toluene	23.53	92.0	44051	31.71	UG/KG	84
43)	Ethyl Benzene	26.40	106.0	10497	11.79	UG/KG	67
44)	4-BROMOFLUOROBENZENE	28.40	95.0	81785M	54.34	UG/KG	100

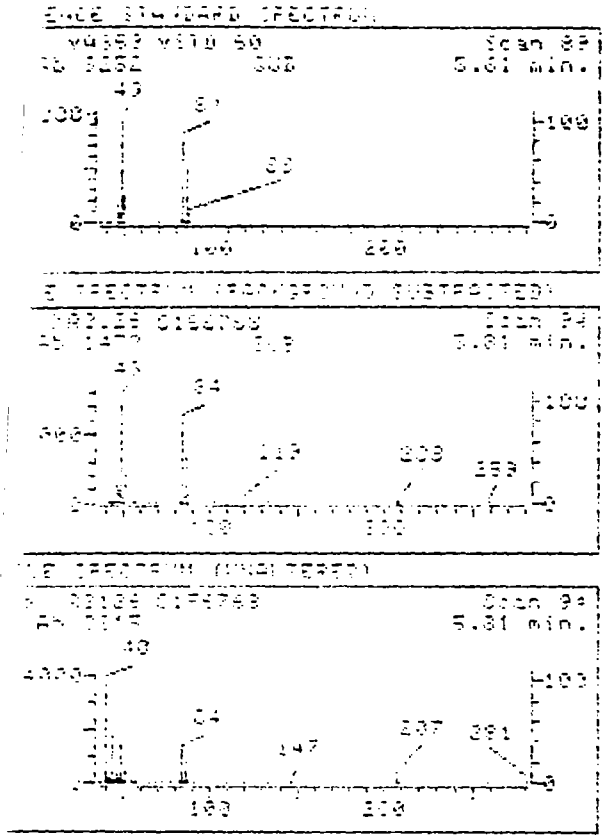
* Compound is ISTD

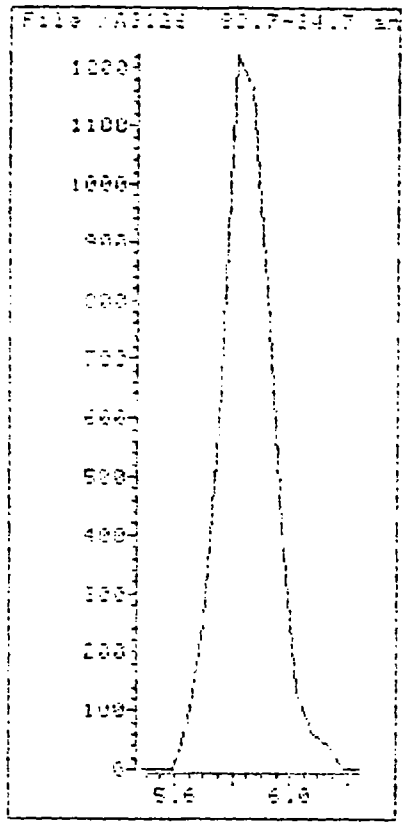


Data File: >A3126::S6 Quant Output File: ^A3126::SS
Name: [illegible]
Misc: RS SAMPLE - HPE.BM

ID File: [illegible]
Title: QUANTITATION FILE FOR VOLATILE SOILS 8C/MSD-A
Last Calibration: 940527 10:57

Operator ID: USE98
Quant Time: 940527 12:36
Injected at: 940527 11:57





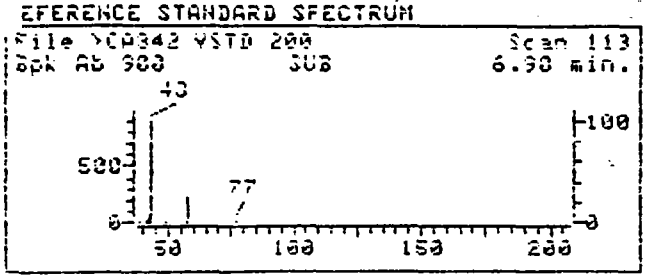
Data File: >A3126::E6
Name: C156768
Misc: FG SAMPLE - HPE/EM
Quant Time: 940527 10:36
Injected at: 940527 11:57

Quant Output File: ^A3126::SS
Quant ID File: [illegible]
Last Calibration: 940527 10:57

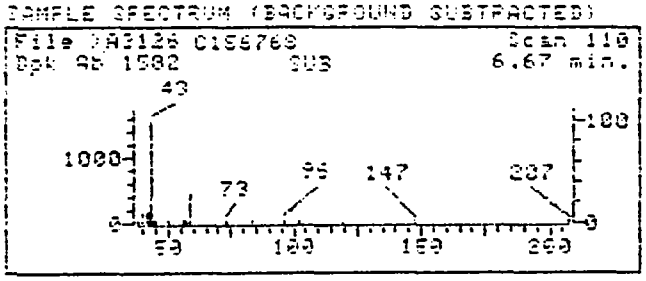
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 94
Retention Time: 5.81 min.
Quant Ion: 84.0
Area: 15429
Concentration: 12.57 UG/KG
q-value: 100

OK
CES
5/27/94

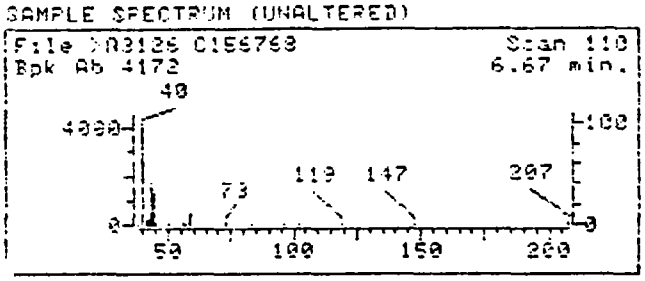
EFERENCE STANDARD SPECTRUM

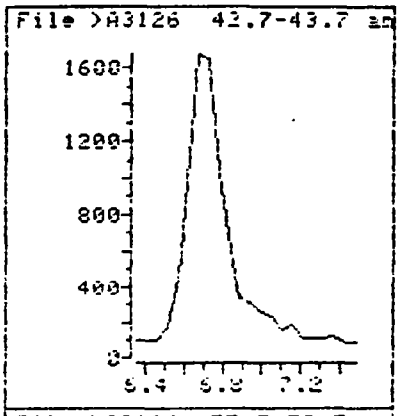


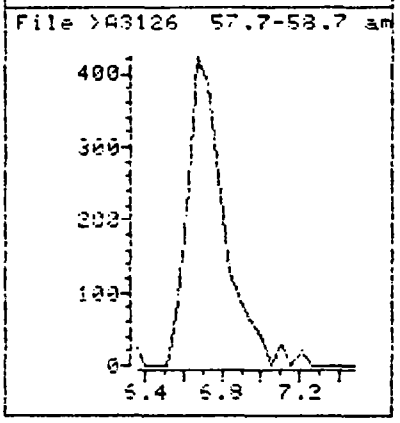
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





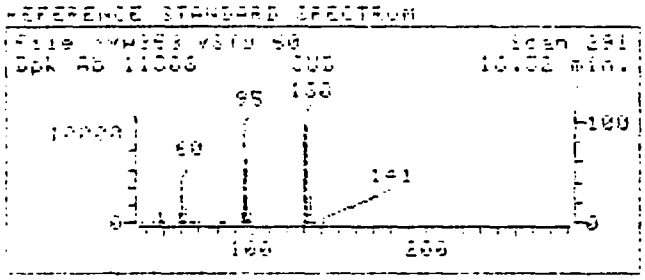


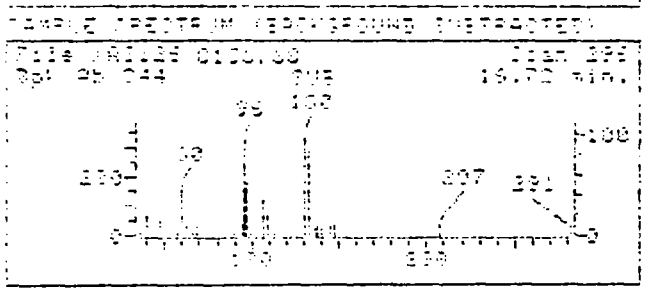
Data File: >A3126::E6
Name: C156768
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940527 12:36
Injected at: 940527 11:57

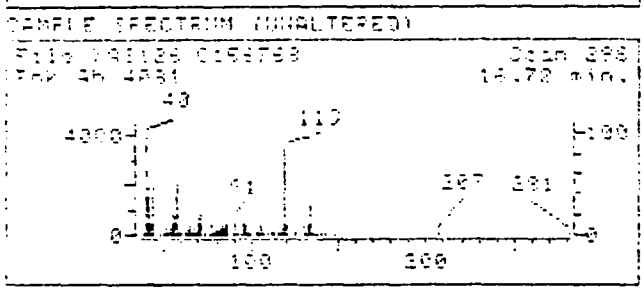
Quant Output File: ^A3126::SS
Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

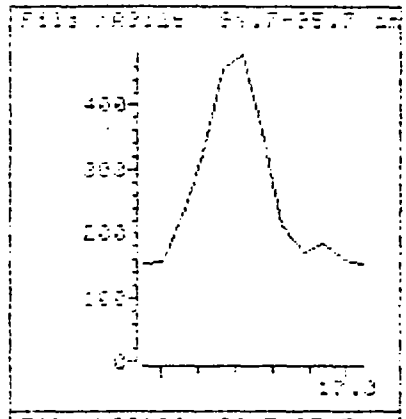
Compound No: 8
Compound Name: Acetone
Scan Number: 110
Retention Time: 6.67 min.
Quant Ion: 43.0
Area: 23258
Concentration: 68.15 UG/KG
q-value: 91

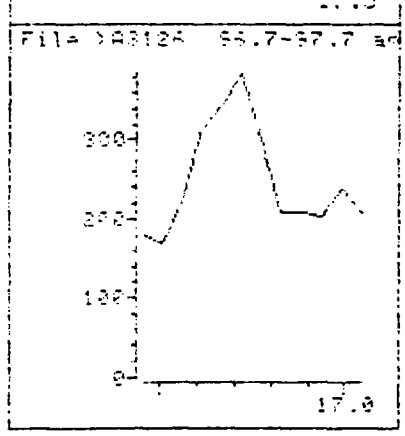
OK
CES
5/27/94











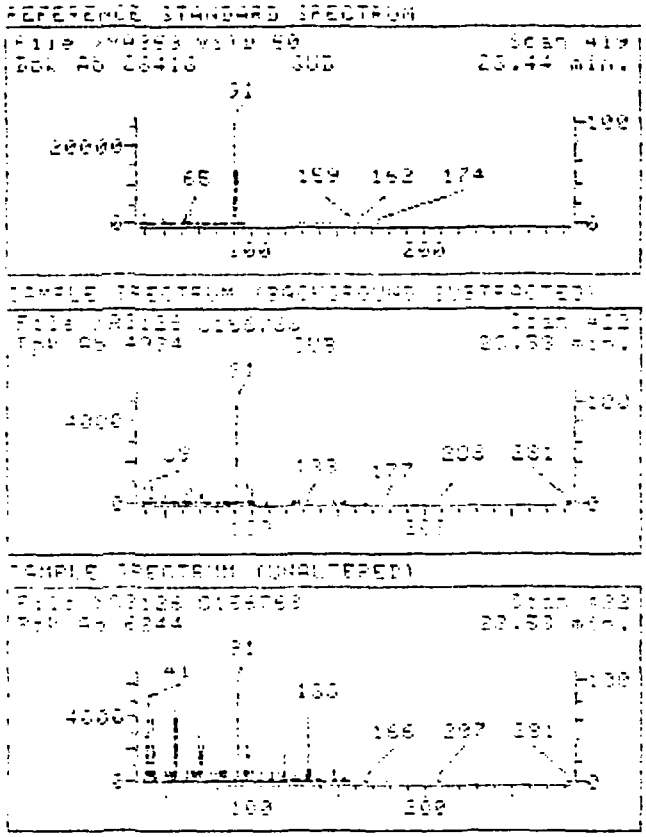
Data File: >A3126::E6
Name: C156768
Misc: 5G SAMPLE - HRE/RM
Quant Time: 940527 12:36
Injected at: 940527 11:57

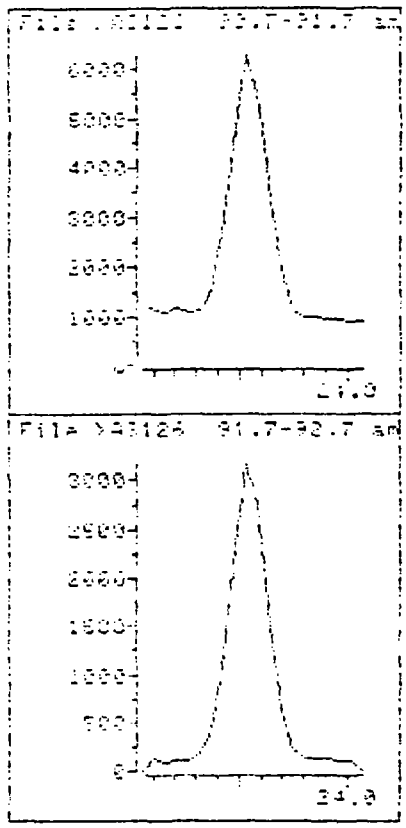
Quant Output File: ^A3126::SS

Quant ID File: 1D5VOA::D5
Last Calibration: 940527 10:57

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 296
Retention Time: 16.72 min.
Quant Ion: 95.0
Area: 3909
Concentration: 2.59 UG/KG
q-value: 80

ok
CES
5/27/94





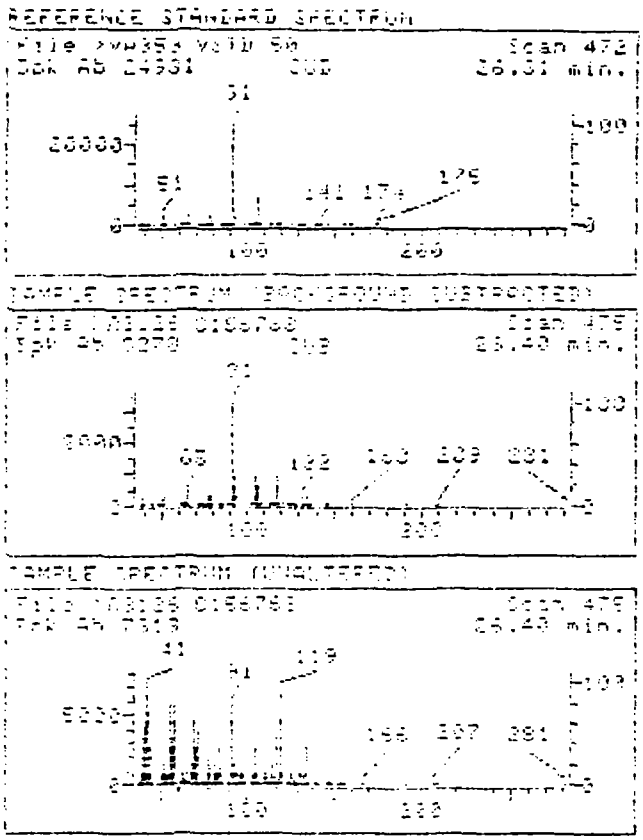
Data File: >A3126::E6
Name: C156768
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940527 12:36
Injected at: 940527 11:57

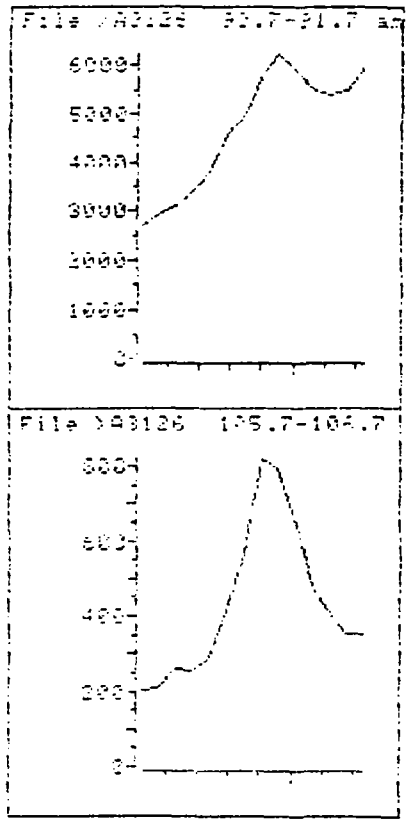
Quant Output File: ^A3126::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 41
Compound Name: Toluene
Scan Number: 422
Retention Time: 23.53 min.
Quant Ion: 92.0
Area: 44051
Concentration: 31.71 UG/KG
q-value: 84

OK
CBS
5/27/94





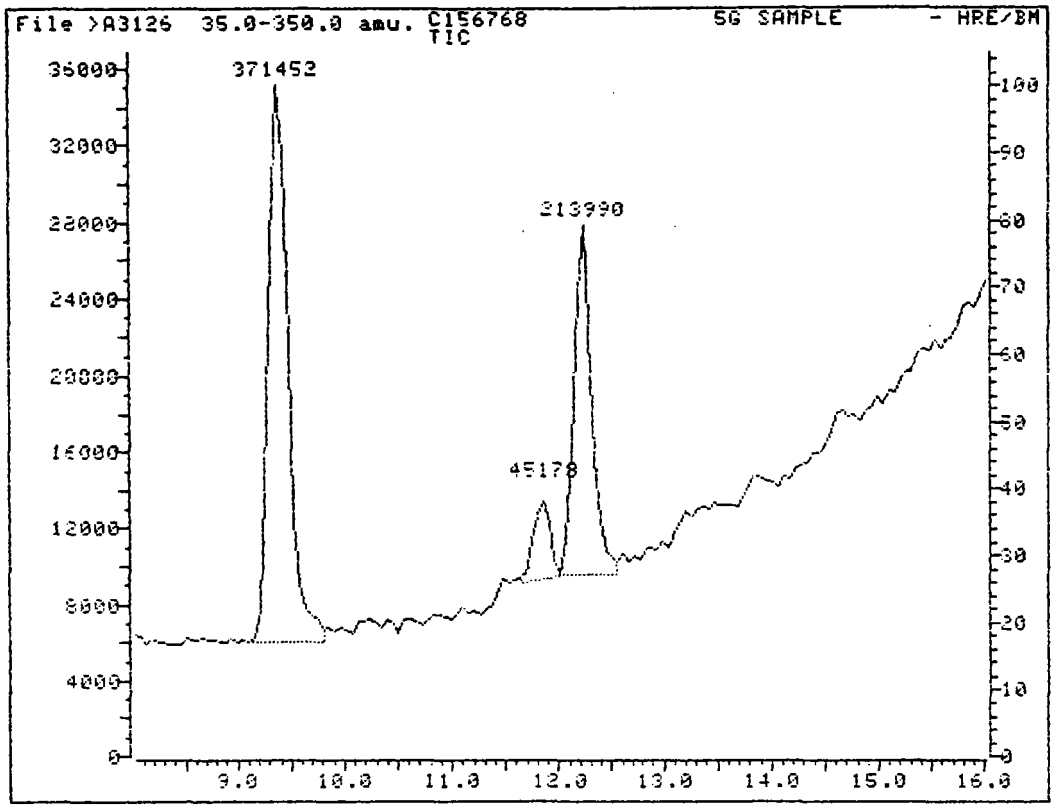
Data File: >A3126::E6
Name: 0156768
Misc: FG SAMPLE - HPE/BM
Quant Time: 940527 12:36
Injected at: 940527 11:57

Quant Output File: ^A3126::SS

Quant ID File: IDSWDA::D6
Last Calibration: 940527 10:57

Compound No: 43
Compound Name: Ethyl Benzene
Scan Number: 475
Retention Time: 26.40 min.
Quant Ion: 106.0
Area: 10497
Concentration: 11.79 UG/KG
q-value: 67

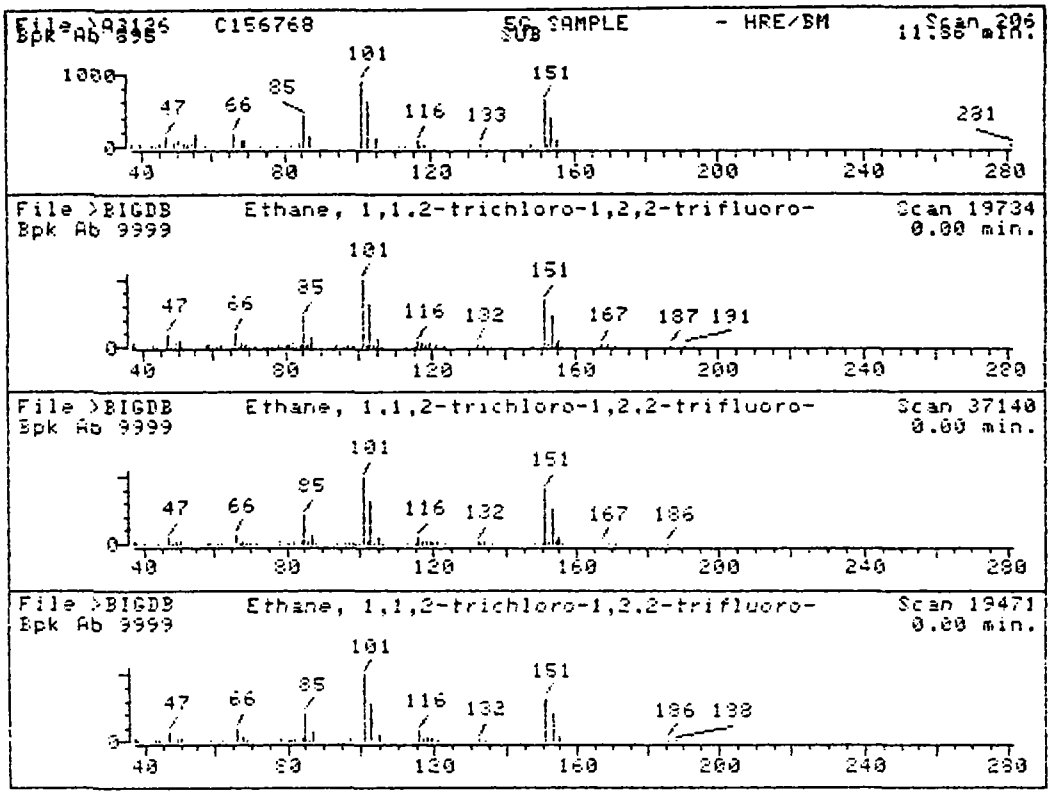
OK
GES
5/27/94



>A3126 C156768 5G SAMPLE - HRE/BM
35.0: 350.0 TIC
DR Upslope: .20 Area Reject: 5.00 % Max Peaks: 3 Bunching: 1
Dnslope: 0.00 Resul
ts File VDIR80 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	9.37	155	160	168	29064	627229	371452	100.00	58.903
2	11.86	202	206	209	4344	256723	45178	12.16	7.164
3	12.23	209	213	219	18283	522878	~~213990~~	57.61	33.933

Sum of corrected areas: 630620.

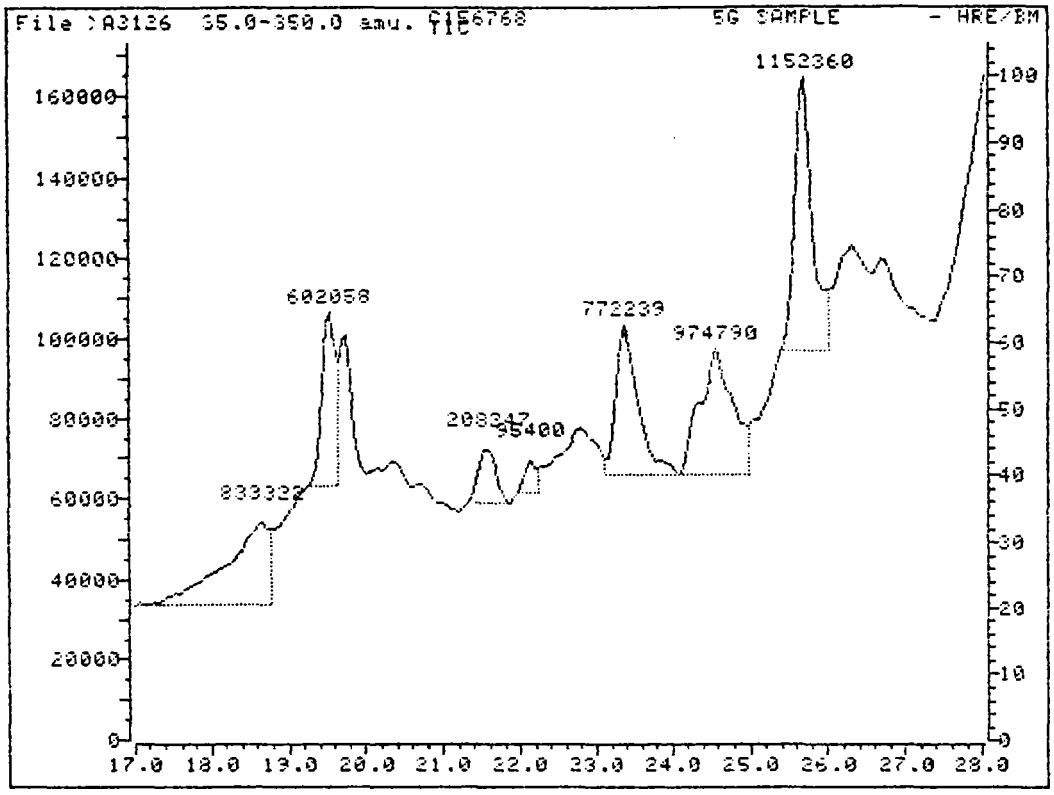


1. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
2. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
3. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
4. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
5. Methane, trichlorofluoro- 136 CCl3F

Sample file: >A3126 Spectrum #: 206
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	76131	19734	"BIGDB	95	43	2	0	90	0	57	29
2.	83	76131	37140	"BIGDB	80	47	2	0	85	5	57	21
3.	78	76131	19471	"BIGDB	86	49	3	0	100	4	55	16
4.	52	76131	19733	"BIGDB	75	60	2	0	90	20	20	19
5.	25	75694	19709	"BIGDB	54	47	2	0	100	49	7	13

$$\text{conc.} = \frac{45178}{371452} \times \frac{250}{(5)(1)} = 6.08 \text{ ug/kg}$$

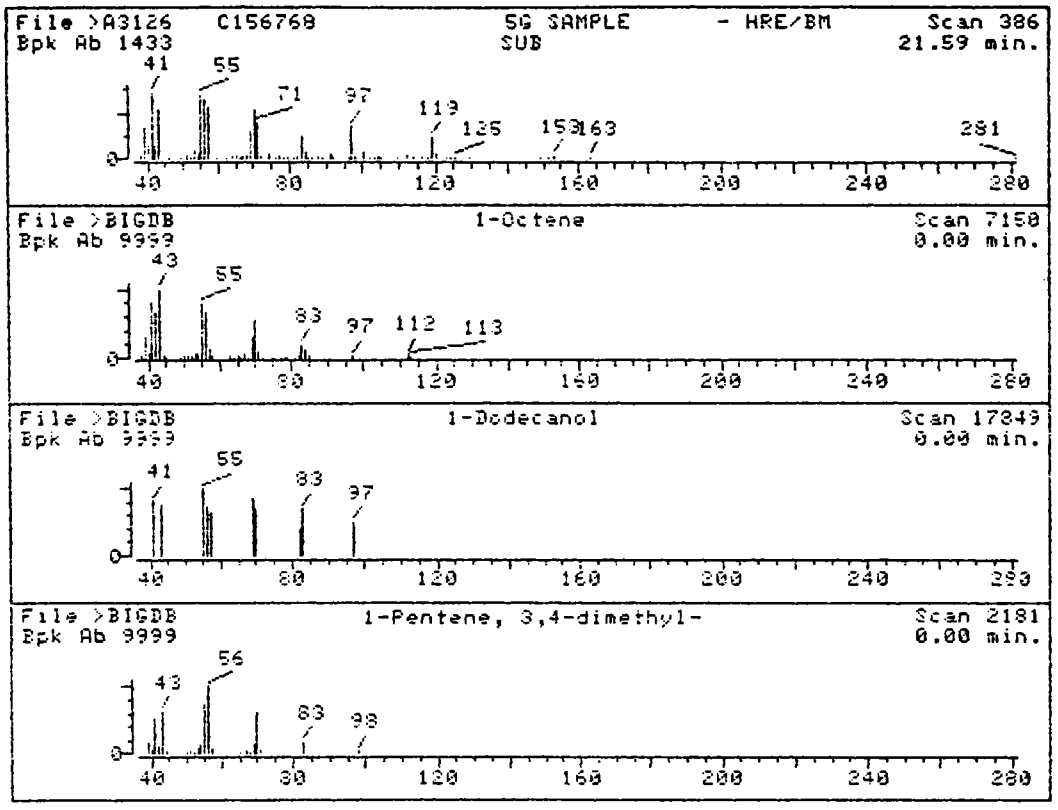


>A3126 C156768 5G SAMPLE - HRE/BM
35.0: 350.0 TIC

Upslope: .20 Area Reject: 5.00 % Max Peaks: 7 Bunching: -1
Dnslope: 0.00 Results File VDIR80 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	18.67	304	332	334	20245	4133239	~~833322~~	72.31	17.966
2	19.53	343	348	350	43349	2036165	~~602058~~	52.25	12.980
3	21.59	381	386	391	13548	2119614	208247	18.07	4.490
4	22.13	393	396	398	8124	1093809	~~95400~~	8.28	2.057
5	23.37	414	419	432	37311	4631858 SS	~~772239~~	67.01	16.649
6	24.56	432	441	449	31593	4620292 SS	~~974790~~	84.59	21.016
7	25.70	456	462	468	67809	4923477	1152360	100.00	24.844

Sum of corrected areas: 4638416.



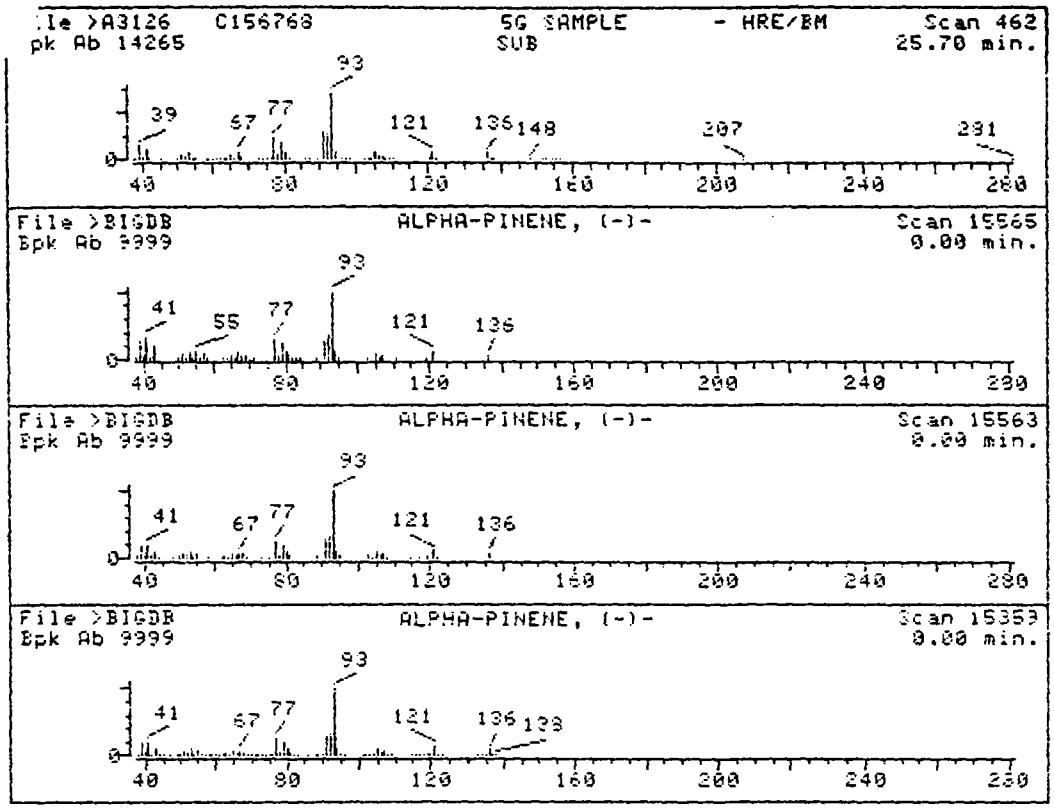
Unknown Hydrocarbon

1. 1-Octene	112	C8H16
2. 1-Dodecanol	186	C12H26O
3. 1-Pentene, 3,4-dimethyl-	98	C7H14
4. Aziridine, 1-propyl-	85	C5H11N
5. 1-Nonanol	144	C9H20

Sample file: >A3126 Spectrum #: 386
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43*	111660	7150	"BIGDB	55	48	2	0	95	36	17	32
2.	39	112538	17849	"BIGDB	55	28	3	0	96	30	14	16
3.	36*	7385786	2181	"BIGDB	45	49	1	0	91	42	12	27
4.	29*	5536981	1772	"BIGDB	27	60	1	0	91	39	10	15
5.	27	143088	2301	"BIGDB	38	35	2	0	91	40	10	13

$$\text{conc.} = \frac{208247}{974790} \times \frac{250}{(5)(1)} = 10.7 \text{ ug/kg}$$



Unknown C_{10} Hydrocarbon

1.	ALPHA-PINENE, (-)-	136 C10H16
2.	ALPHA-PINENE, (-)-	136 C10H16
3.	ALPHA-PINENE, (-)-	136 C10H16
4.	d-Limonene	136 C10H16
5.	4-CARENE	136 C10H16

Sample file: >A3126 Spectrum #: 462
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	80568	15565	"BIGDB	86	20	1	0	79	1	68	83
2.	93*	80568	15563	"BIGDB	84	20	1	0	98	1	68	80
3.	89*	80568	15359	"BIGDB	88	16	1	0	68	7	62	86
4.	89*	5989275	15517	"BIGDB	67	31	1	0	93	5	66	66
5.	89*	0	15347	"BIGDB	63	38	1	0	70	2	66	60

$$\text{conc.} = \frac{1152360}{974790} \times \frac{250}{(5)(1)} = 59.1\ \mu g/kg$$

[illegible]

[illegible] Run: [illegible] Run Date: [illegible] Run Time: [illegible]
[illegible] Injected at: [illegible]
[illegible] Dilution Factor: [illegible]
[illegible]
[illegible]

OK
GES
5/22/94

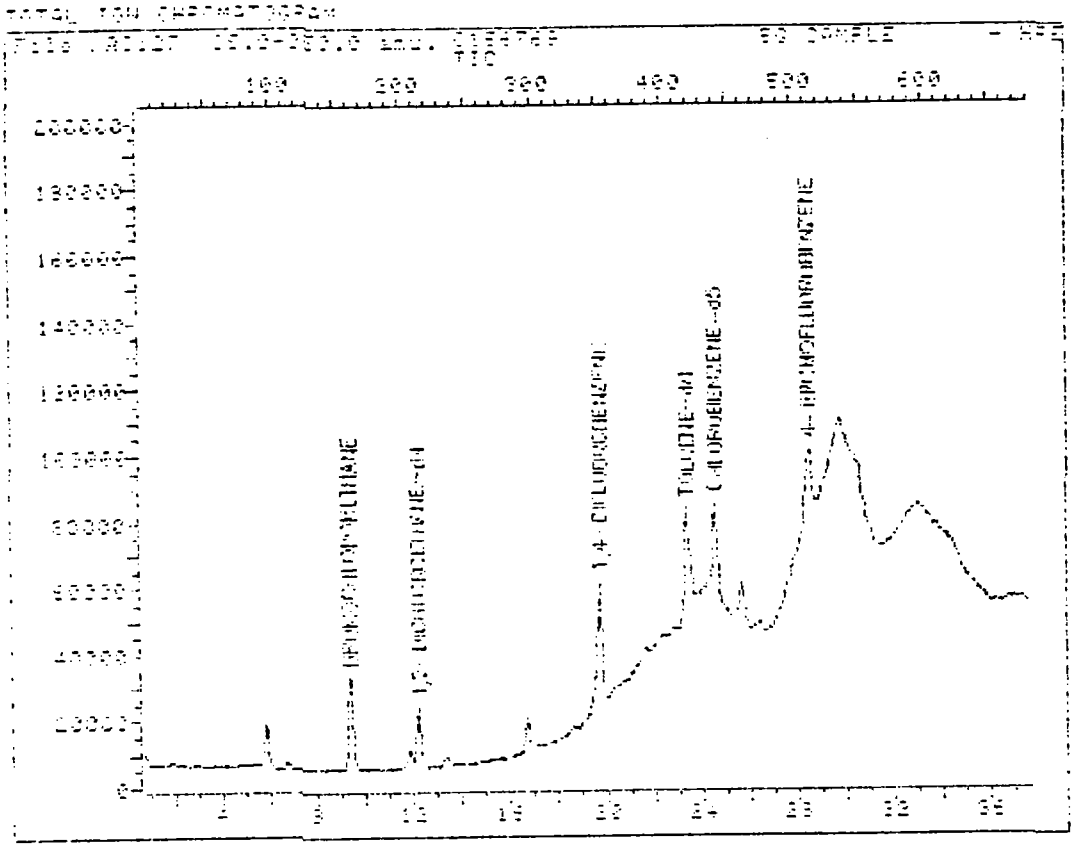
[illegible]
[illegible]
[illegible]

[illegible]	R.T.	[illegible]	Area	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

* [illegible]

001118

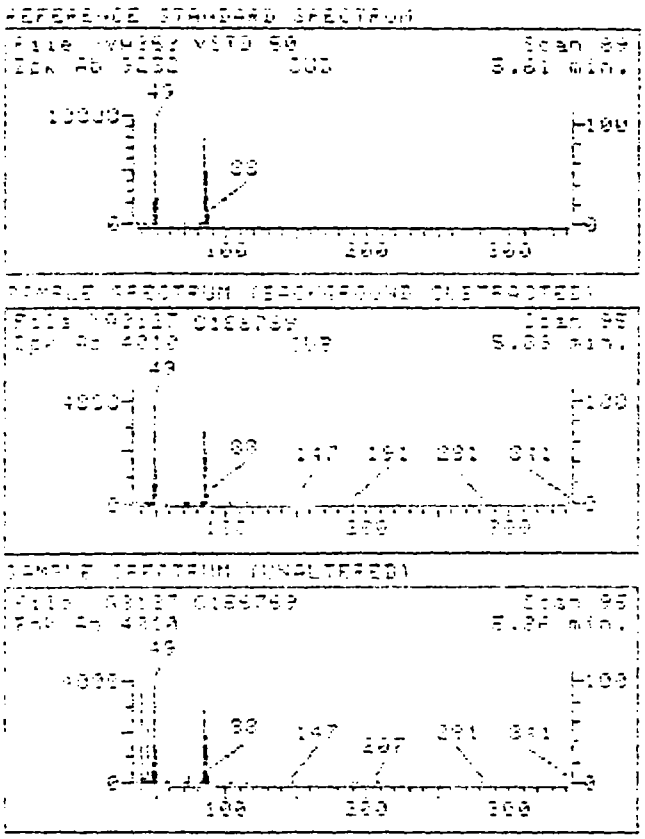
TOTAL ION CHROMATOGRAM

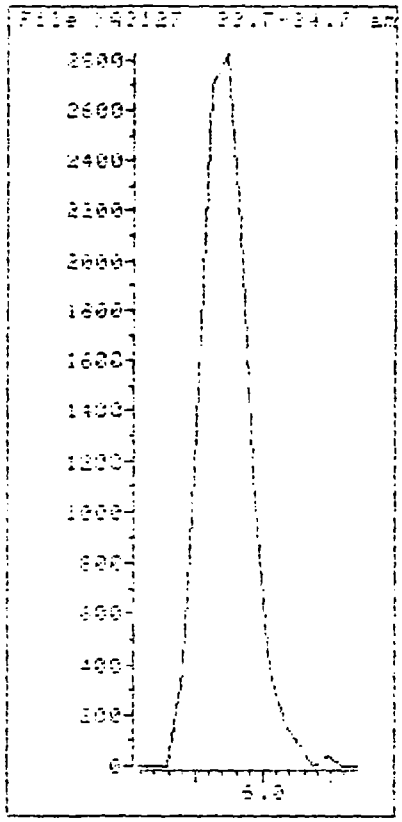


Data File: 1A3127::E6 Quant Output File: ^A3127::SS
Name: C154769
Misc: FG SAMPLE - HRE/SM

Id File: ID8VOA::DF
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 13:21
Injected at: 940527 12:42



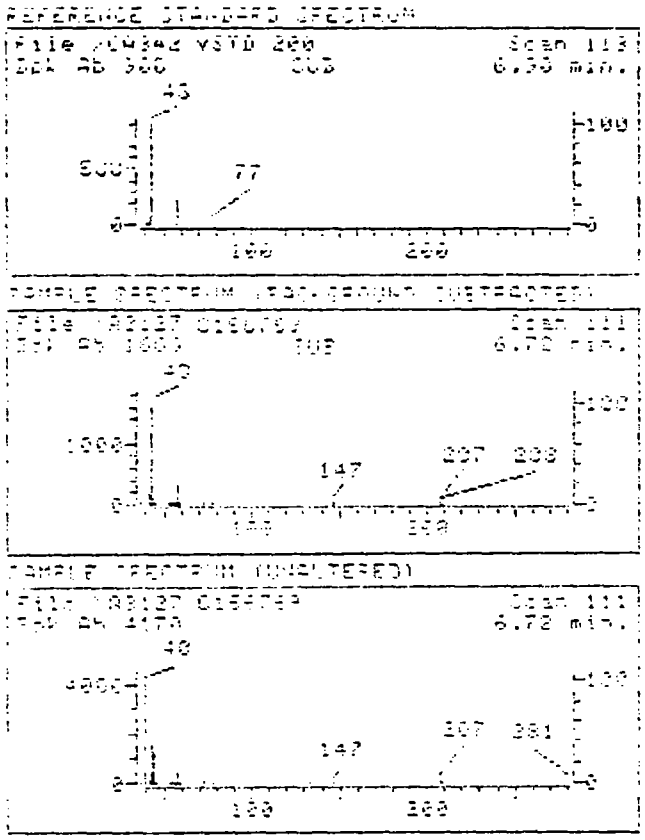


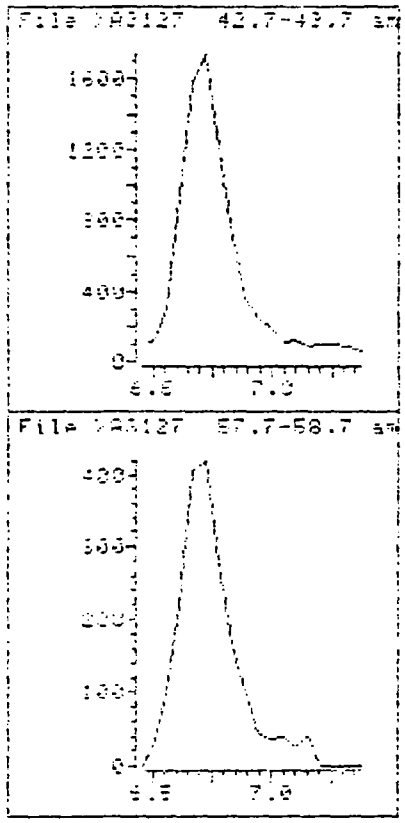
Data File: >A3127::S6
Name: C156769
Misc: FG SAMPLE - HRE/SM
Quant Time: 940527 13:21
Injected at: 940527 12:42

Quant Output File: ^A3127::SS
Quant IO File: IOSUOA::D5
Last Calibration: 940527 10:57

Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 95
Retention Time: 5.96 min.
Quant Ion: 84.0
Area: 35720
Concentration: 29.88 UG/KG
q-value: 100

OK
CES
5/27/94





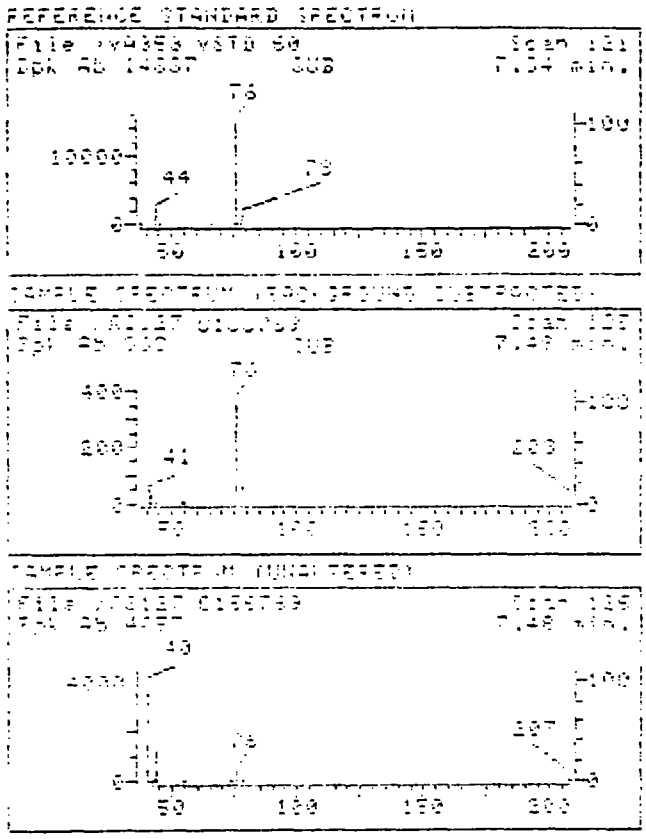
Data File: >A3127::E6
Name: C156769
Misc: FG SAMPLE - HRE/BM
Quant Time: 940527 13:21
Injected at: 940527 12:42

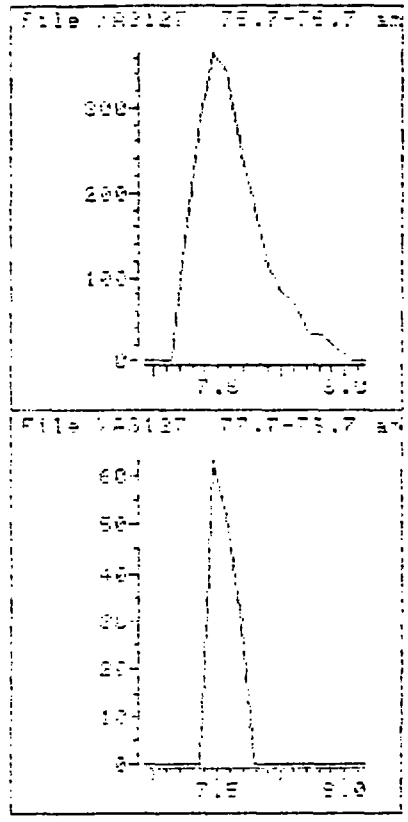
Quant Output File: ^A3127::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 8
Compound Name: Acetone
Scan Number: 111
Retention Time: 6.72 min.
Quant Ion: 43.0
Area: 22548
Concentration: 67.81 UG/KG
q-value: 89

OK
CES
5/27/94





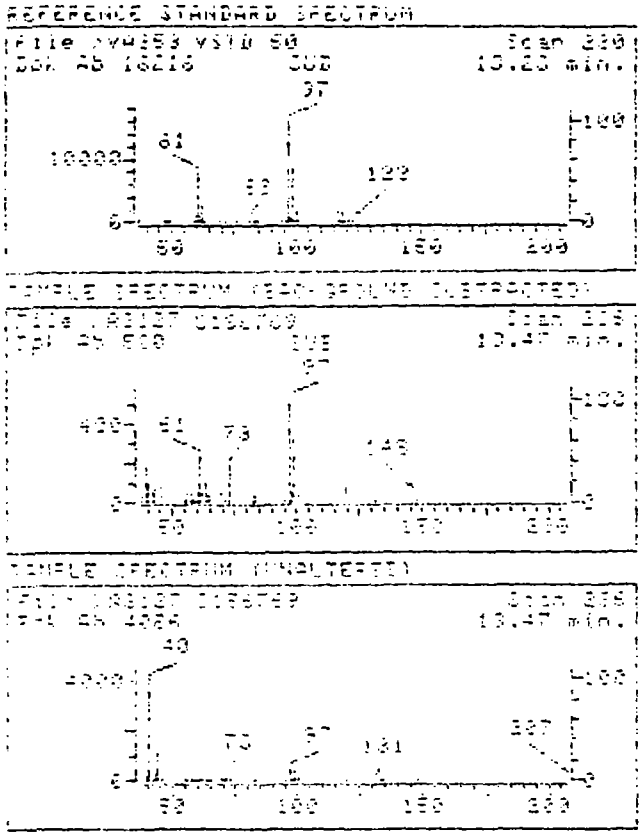
Data File: >A3127::E6
Name: C156769
Misc: 5G SAMPLE - HRE/SM
Quant Time: 940527 13:21
Injected at: 940527 12:42

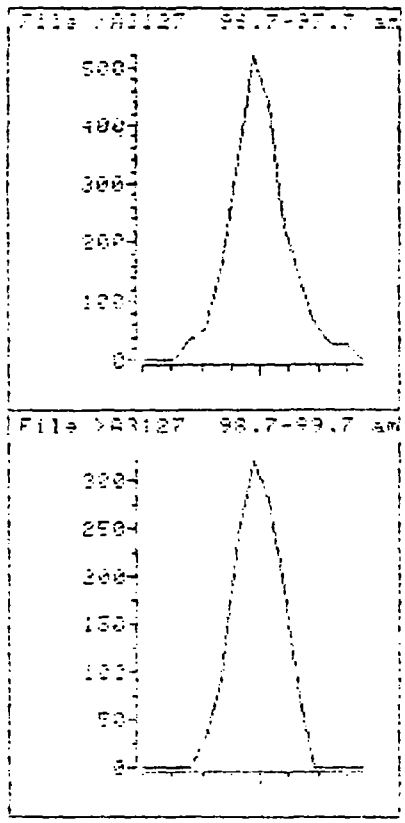
Quant Output File: ^A3127::SS

Quant ID File: 1DBVOA::D8
Last Calibration: 940527 10:57

Compound No: 10
Compound Name: Carbon Disulfide
Scan Number: 125
Retention Time: 7.48 min.
Quant Ion: 76.0
Area: 6171
Concentration: 2.64 UG/KG
q-value: 80

OK
CES
5/27/94

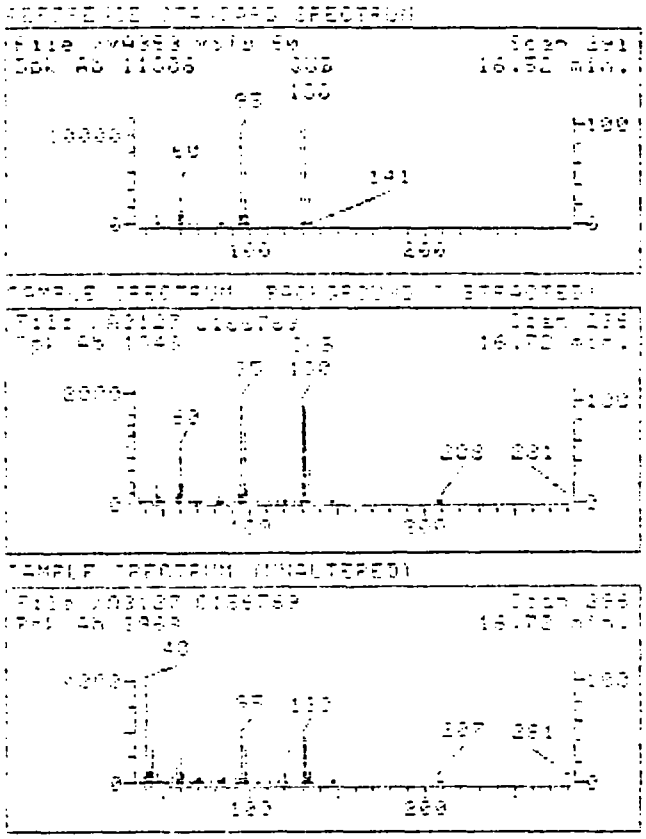


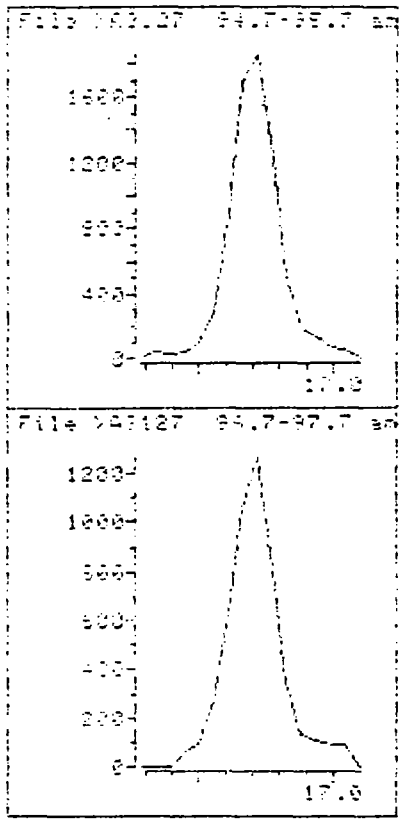


Data File: >A3127::E6 Quant Output File: [illegible]
Name: [illegible]
Misc: [illegible]
Quant Time: [illegible] Quant IS File: [illegible]
Injected at: [illegible] Last Calibration: [illegible]

Compound No: [illegible]
Compound Name: 1,1,1-Trichloroethane
Scan Number: 276
Retention Time: 13.47 min.
Quant Ion: [illegible]
Area: 6540
Concentration: 2.63 UG/KG
q-value: 95

OK
CES
5/27/94





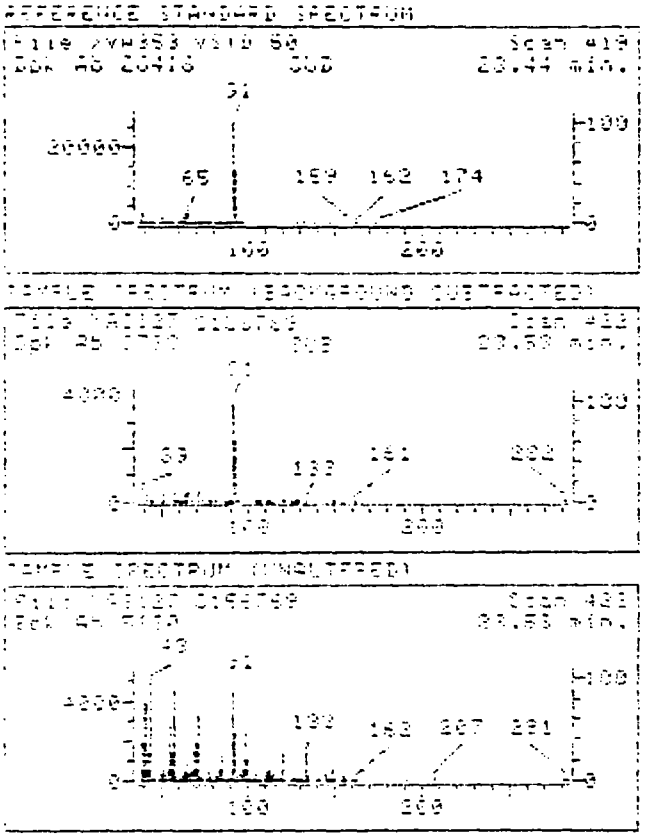
Data File: >A3127::E6
Name: C156769
Misc: 5G SAMPLE - - HPE/SM
Quant Time: 940527 13:21
Injected at: 940527 12:42

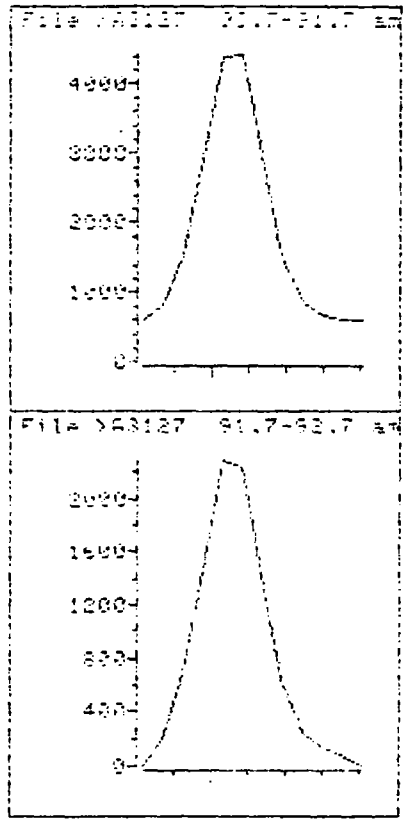
Quant Output File: ^A3127::SS

Quant ID File: IDSVOA::DF
Last Calibration: 940527 10:57

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 296
Retention Time: 16.72 min.
Quant Ion: 95.0
Area: 23179
Concentration: 15.42 UG/KG
q-value: 95

OK
CES
5/27/94





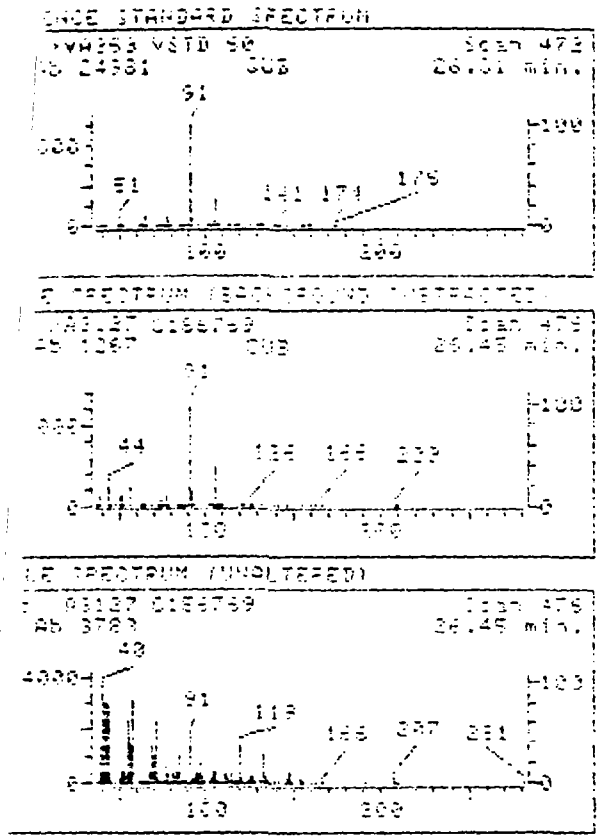
Data File: >A3127::E6
Name: C156769
Misc: 5G SAMPLE - HPE/BM
Quant Time: 940527 13:21
Injected at: 940527 12:42

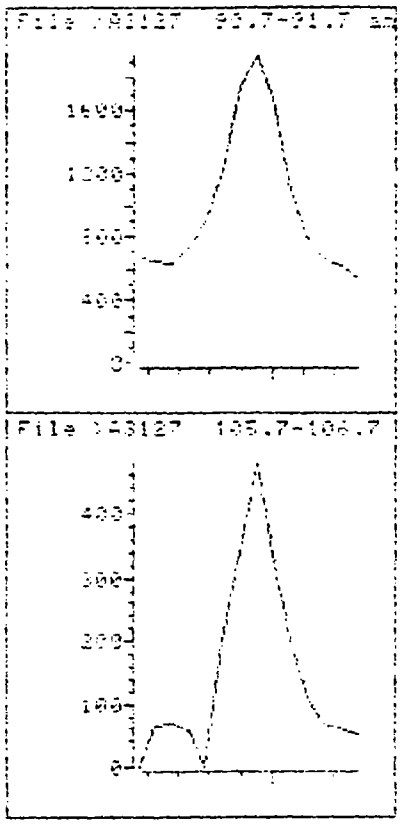
Quant Output File: ^A3127::SS

Quant IO File: IOSUDA::C5
Last Calibration: 940527 10:57

Compound No: 41
Compound Name: Toluene
Scan Number: 422
Retention Time: 23.53 min.
Quant Ion: 92.0
Area: 30537
Concentration: 18.80 UG/KG
q-value: 85

OK
CBS
5/27/94





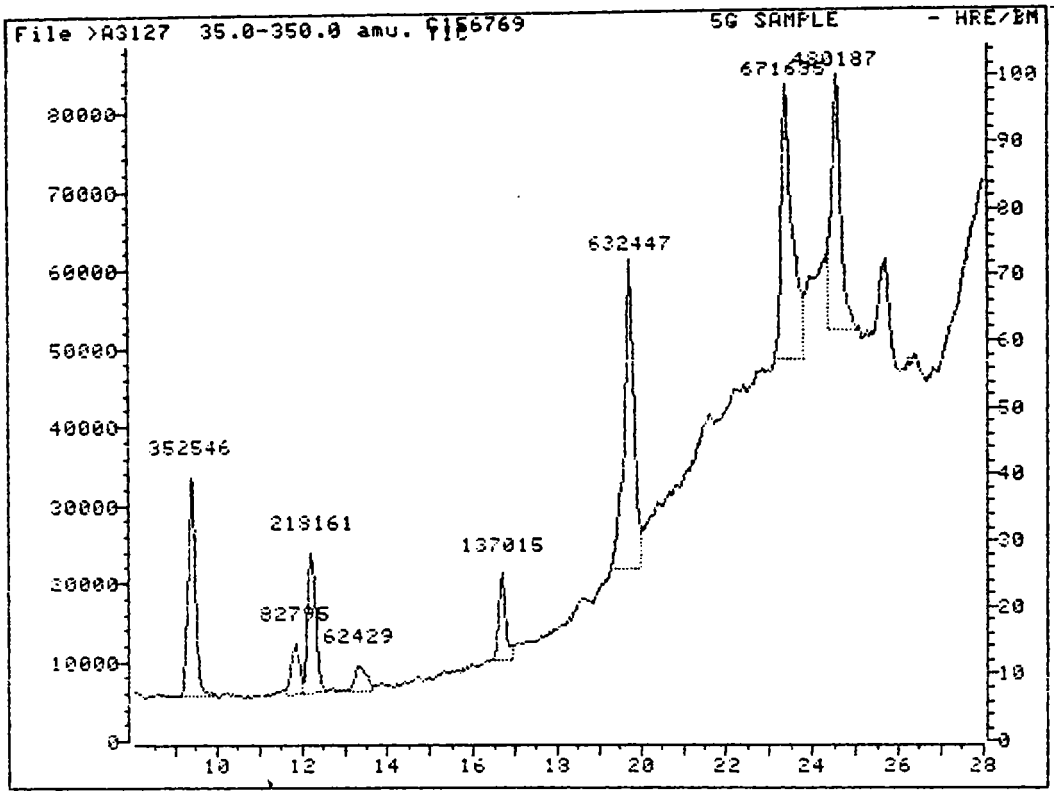
Data File: >A3127::E6
Name: 0156769
Misc: SS SAMPLE - PSE/BM
Quant Time: 940527 17:21
Injected at: 940527 12:42

Quant Output File: ^A3127::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 43
Compound Name: Ethyl Benzene
Scan Number: 476
Retention Time: 26.45 min.
Quant Ion: 106.0
Area: 6650
Concentration: 6.39 UG/KG
q-value: 86

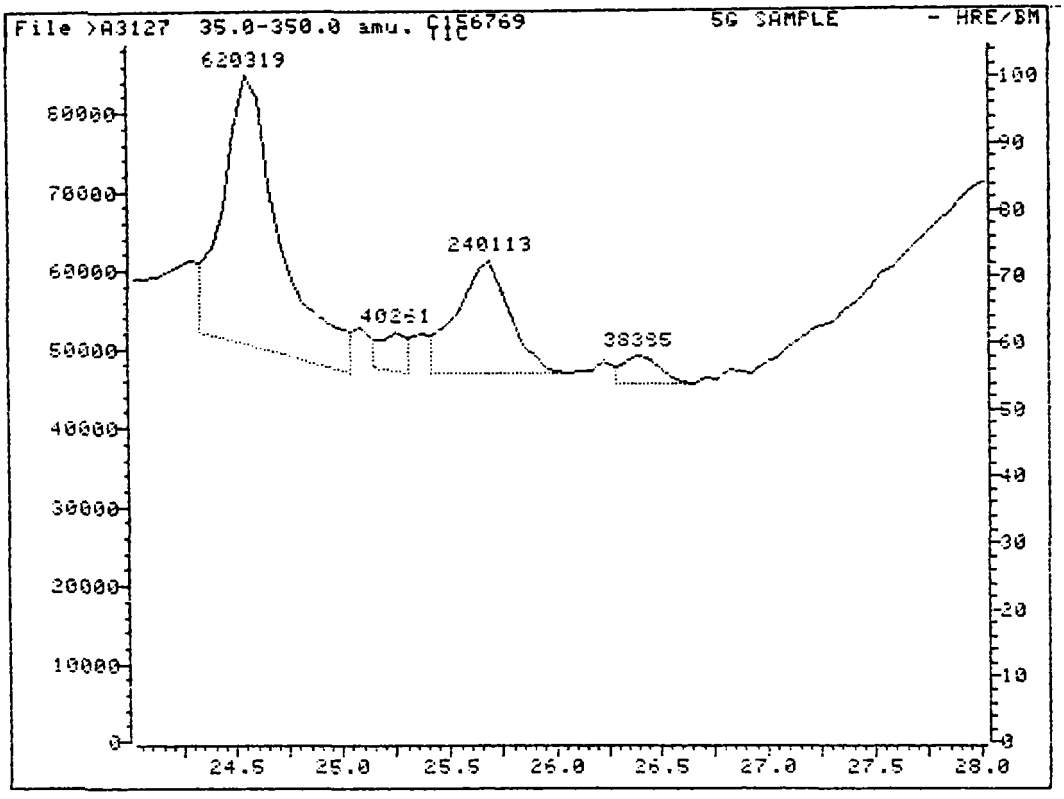
OK
CES
5/27/94



>A3127 C156769 5G SAMPLE - HRE/BM
35.0: 350.0 TIC
Upslope: .20 Area Reject: 5.00 % Max Peaks: 8 Bunching: 1
Dnslope: 0.00 Results File VDIR80 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	9.37	156	160	168	27709	577852	352546	52.49	13.368
2	11.85	202	206	209	6552	215101	82795	12.33	3.139
3	12.23	209	213	220	18027	433231	~~218161~~	32.48	8.272
4	13.31	228	233	239	3220	284801	62429	9.30	2.367
5	16.72	291	296	300	10976	435617	~~137015~~	20.40	5.195
6	19.74	344	352	357	39529	1555215	632447	94.17	23.982
7	23.37	415	419	427	35201	2561627	~~671635~~	100.00	25.468
8	24.56	438	441	450	32759	2511411	480187	71.50	18.208

Sum of corrected areas: 2637215.

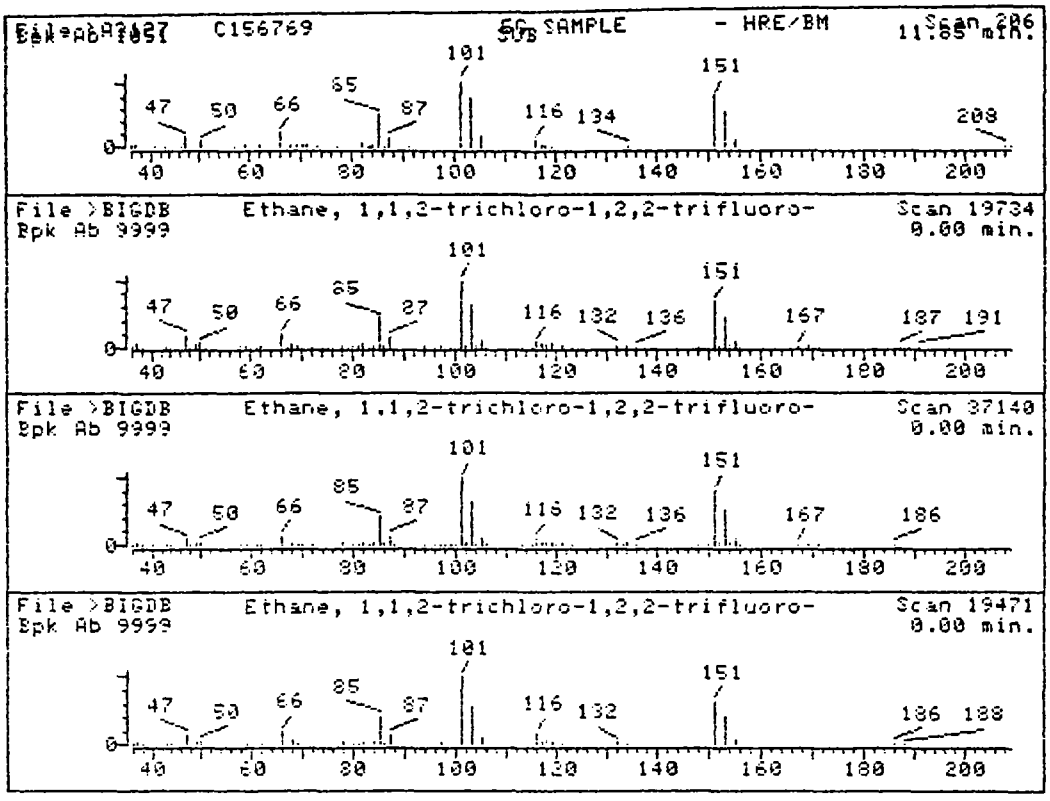


>A3127 C156769 5G SAMPLE - HRE/BM
35.0: 350.0 TIC

Upslope: .20 Area Reject: 5.00 % Max Peaks: 4 Bunching: 1
Dnslope: 0.00 Results File VDIR80 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	24.56	437	441	450	37756	2715372	~~620319~~	100.00	66.056
2	25.26	452	454	455	4988	502657	~~40261~~	6.49	4.287
3 -	25.69	457	462	469	14283	2072599	240113	38.71	25.569
4	26.40	473	475	480	3236	1080076	~~38395~~	6.19	4.088

Sum of corrected areas: 939078.

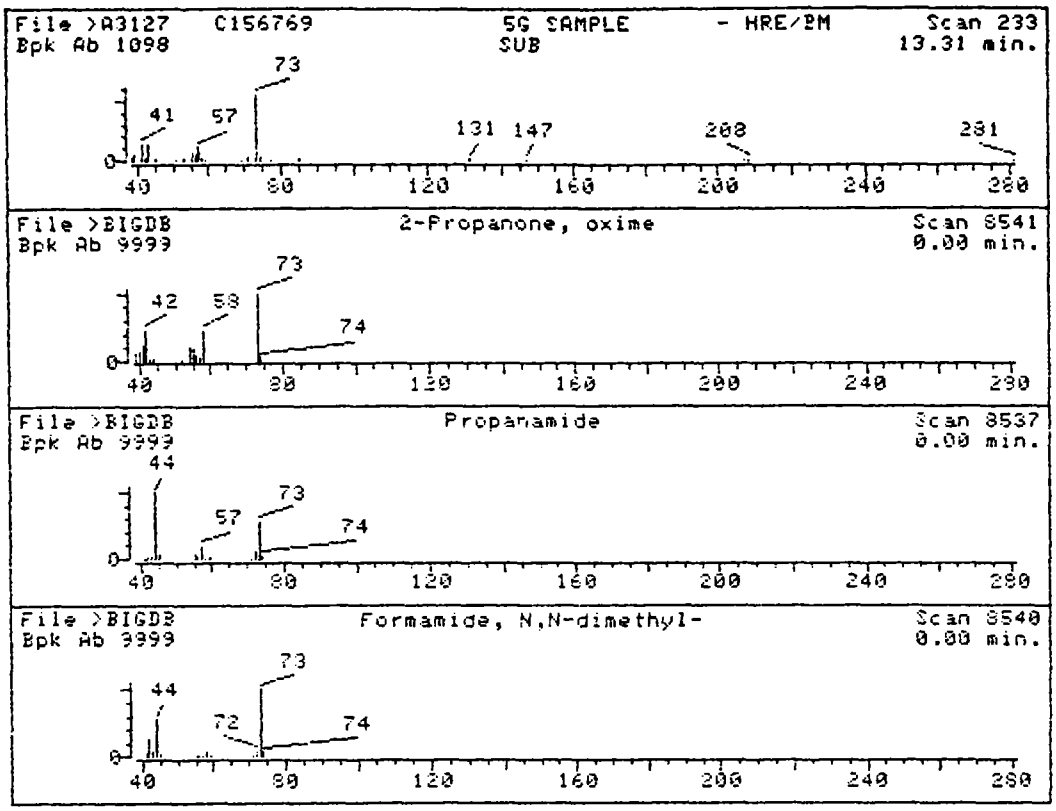


1. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
2. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
3. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
4. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 186 C2Cl3F3
5. Methane, trichlorofluoro- 136 CCl3F

Sample file: >A3127 Spectrum #: 206
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	76131	19734	"BIGDB	94	44	2	0	87	0	57	28
2.	83	76131	37140	"BIGDB	88	39	2	0	94	2	57	25
3.	78	76131	19471	"BIGDB	85	50	3	0	100	2	55	16
4.	47	76131	19733	"BIGDB	73	62	2	0	85	25	17	18
5.	20	75694	19384	"BIGDB	45	48	2	0	100	52	5	12

$$\text{conc.} = \frac{82795}{352546} \times \frac{250}{(5)(1)} = 11.7 \text{ ug/kg}$$



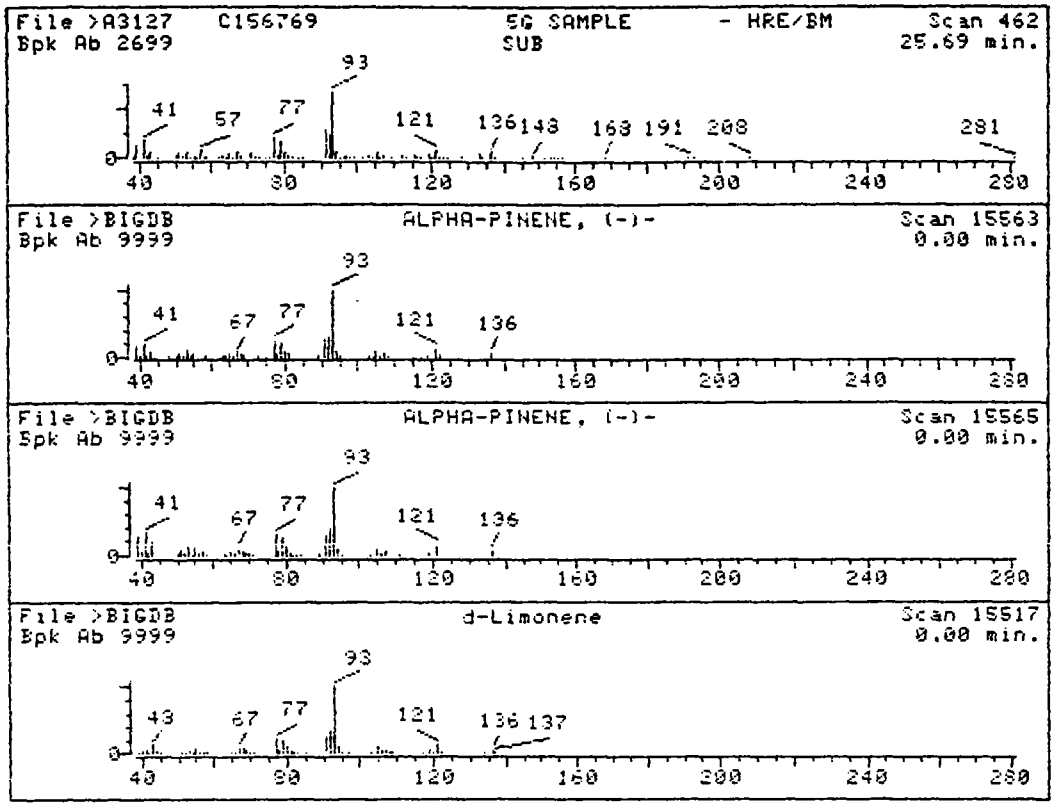
Unknown

1. ~~2-Propanone, oxime~~ 73 C3H7NO
2. ~~Propanamide~~ 73 C3H7NO
3. ~~Formamide, N,N-dimethyl-~~ 73 C3H7NO
4. ~~1,3-Dioxolane~~ 74 C3H6O2

Sample file: >A3127 Spectrum #: 233
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	127060	8541	"BIGDB	26	71	2	0	85	12	30	14
2.	52*	79050	8537	"BIGDB	23	59	3	0	178	18	20	12
3.	42*	68122	8540	"BIGDB	20	60	2	0	100	22	17	13
4.	36*	646060	8302	"BIGDB	21	58	2	0	100	29	14	13

$$\text{conc.} = \frac{62429}{352546} \times \frac{250}{(5)(1)} = 8.8 \text{ ug/kg}$$



Unknown C_{10} Hydrocarbon

1.	ALPHA-PINENE, (-)-	136 C10H16
2.	ALPHA-PINENE, (-)-	136 C10H16
3.	d-Limonene	136 C10H16
4.	4-CARENE	136 C10H16
5.	ALPHA-PINENE, (-)-	136 C10H16

Sample file: >A3127 Spectrum #: 462
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	95*	80568	15563	"BIGDB	84	20	0	0	100	7	68	95
2.	89*	80568	15565	"BIGDB	86	20	1	0	78	7	62	83
3.	87*	5989275	15517	"BIGDB	72	26	0	0	92	11	55	89
4.	86*	0	15347	"BIGDB	63	38	0	0	71	10	53	76
5.	83	80568	15566	"BIGDB	90	11	0	0	82	13	51	78

$$\text{conc} = \frac{240113}{480187} \times \frac{250}{(5)(1)} = 25.0 \text{ ug/kg}$$

QUANT REPORT

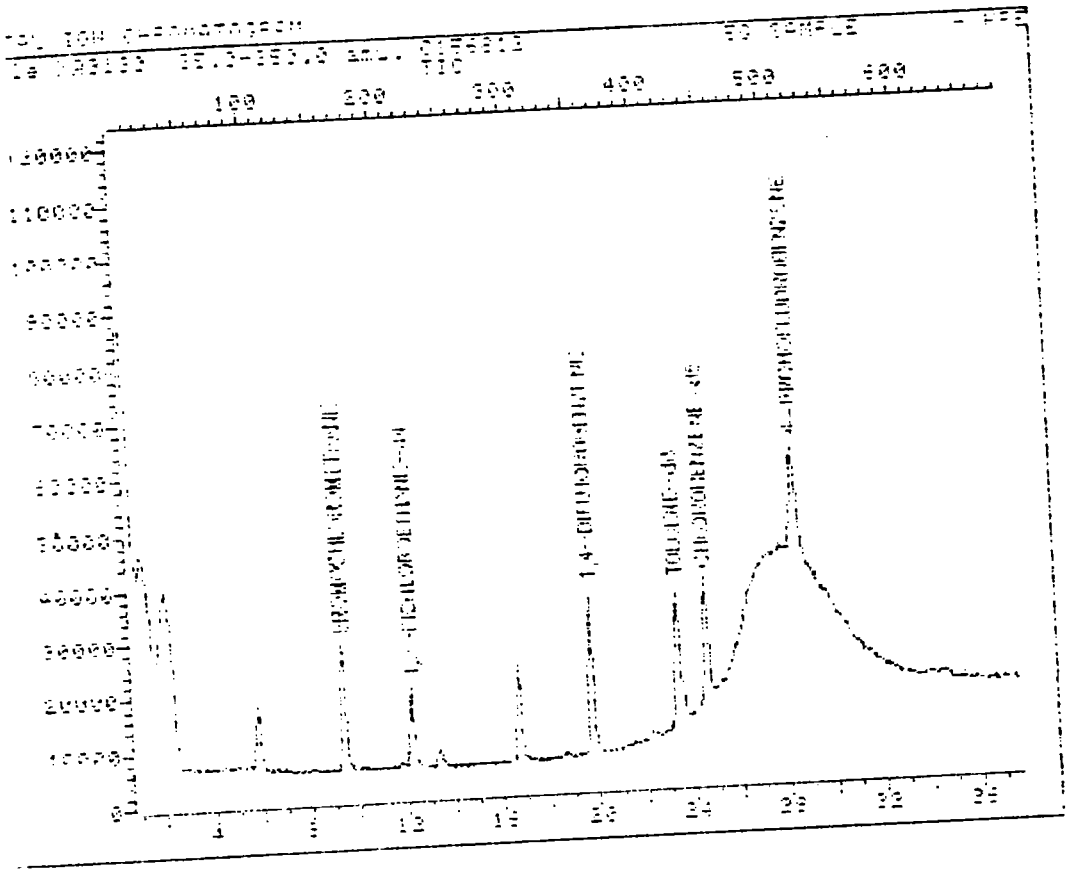
Operator ID: [illegible] Quant Rev: 6 Quant Time: [illegible]
Output File: [illegible] Injected at: [illegible]
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible]
Misc: [illegible] - [illegible]

OK GES 5/27/94

[illegible]
Title: [illegible]
Last Calibration: [illegible]

Compound	R.I.	Ulnt	Area	Conc	Units	Q
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	2.55	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

* Compound is [illegible]

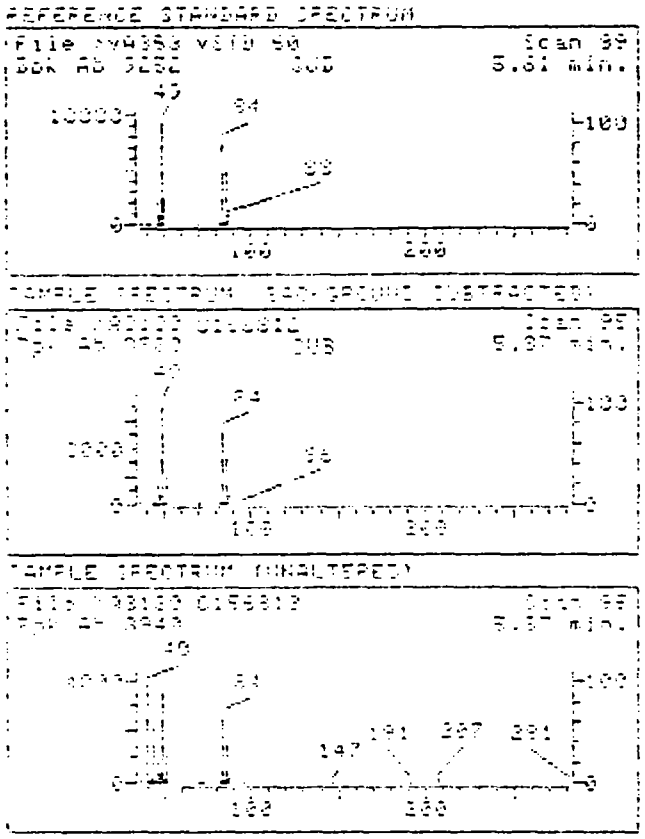


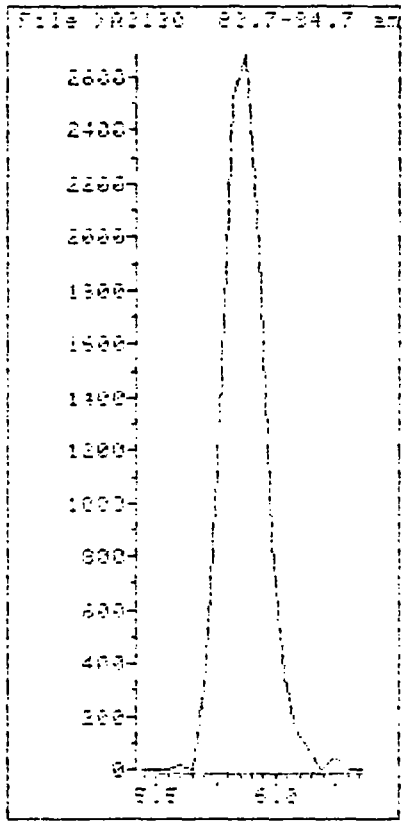
Quant Output File: ^A3130::SS

Data File: ^A3130::E6
Name: C156817
Misc: 5G SAMPLE - HHE/RM

Id File: [illegible]
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 15:35
Injected at: 940527 14:56

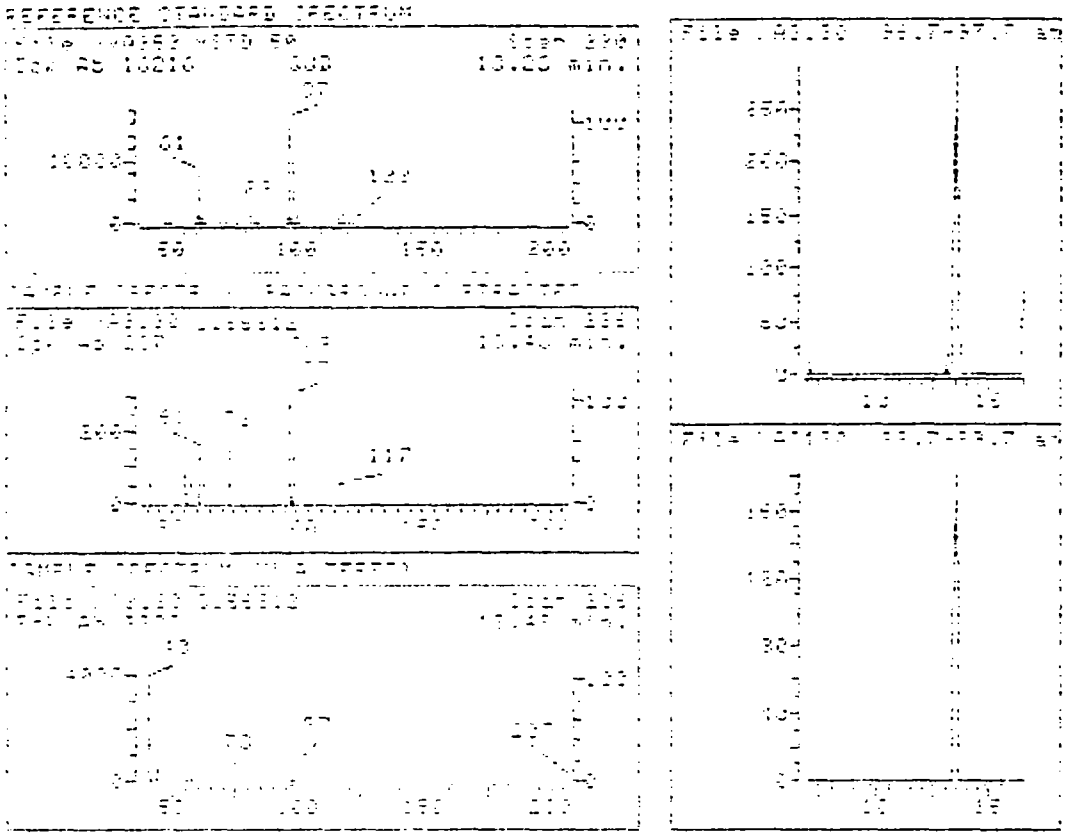




Data File: >A3130::86 Quant Output File: ^A3130::85
Name: C156812
Mass: 5G SAMPLE - HPS/PM
Quant Time: 940527 15:35 Quant ID File: IDSVOA::05
Injected at: 940527 14:56 Last Calibration: 940527 10:57

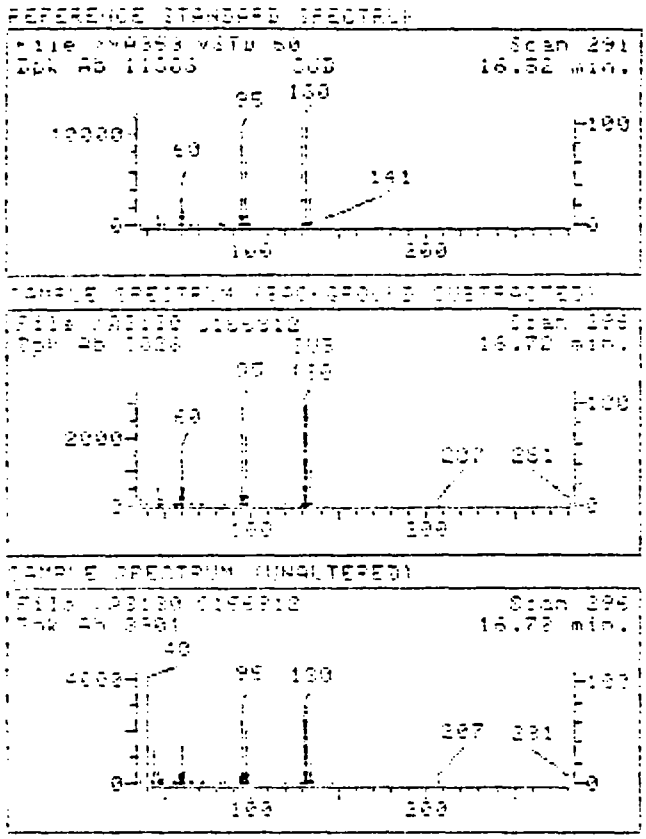
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 95
Retention Time: 5.87 min.
Quant Ion: 84.0
Area: 33601
Concentration: 34.36 UG/KG
q-value: 100

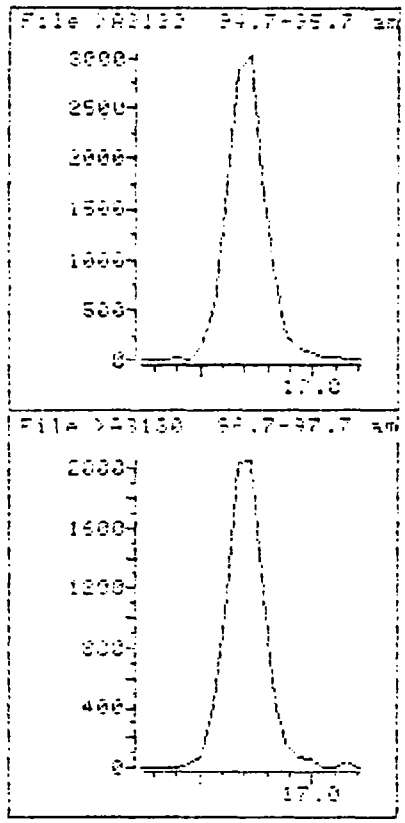
OK
GES
5/27/94



2.55

SK





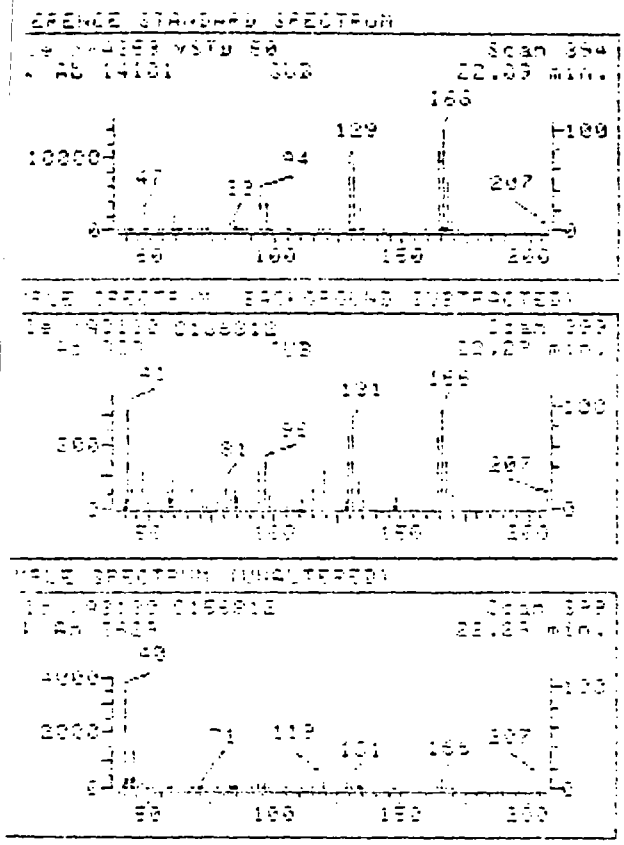
Data File: >A3130::56
Name: C156812
Mode: FS SAMPLE - PRE/BM
Quant Time: 940527 15:35
Injected at: 940527 14:56

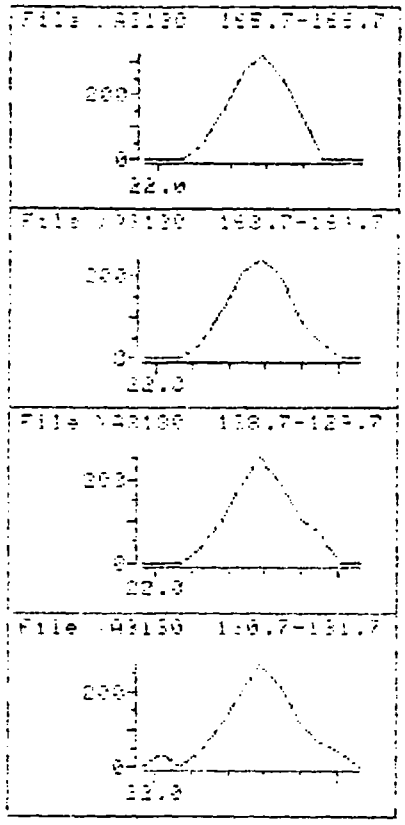
Quant Output File: ^A3130::SS

Quant IO File: IOSVOA::05
Last Calibration: 940527 10:57

Compound No: 28
Compound Name: Trichloroethene
Scan Number: 296
Retention Time: 16.72 min.
Quant Ion: 95.0
Area: 37041
Concentration: 31.09 UG/KG
q-value: 96

OK
CES
5/27/94





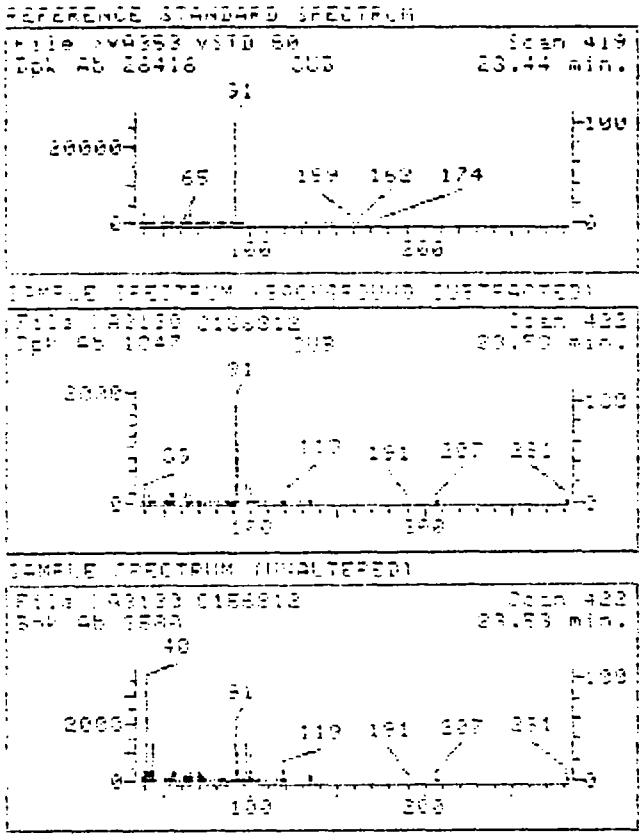
Data File: \A3130::56
Name: C156812
Misc: VG SAMPLE - HPE/SM
Quant Time: 940527 15:35
Injected at: 940527 14:56

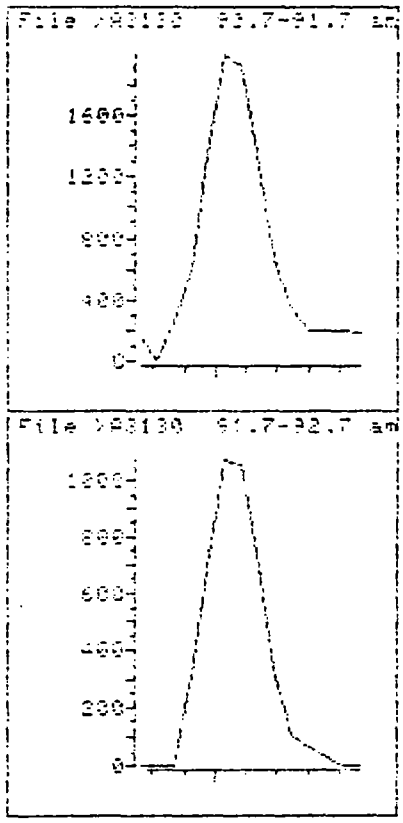
Quant Output File: ^A3130::99

Quant ID File: IDSVOA::05
Last Calibration: 940527 10:57

Compound No: 38
Compound Name: Tetrachloroethene
Scan Number: 399
Retention Time: 22.29 min.
Quant Ion: 164.0
Area: 2972
Concentration: 3.80 UG/KG
q-value: 93

OK
GES
5/27/94





Data File: >A3130::E6
Name: C156812
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940527 15:35
Injected at: 940527 14:54

Quant Output File: ^A3130::SS

Quant IO File: IOSVOA::D5
Last Calibration: 940527 10:57

Compound No: 41
Compound Name: Toluene
Scan Number: 422
Retention Time: 23.53 min.
Quant Ion: 92.0
Area: 14111
Concentration: 10.54 UG/KG
q-value: 88

OK
CES
5/27/94

QUANT REPORT

Operator ID: [illegible]
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Mode: [illegible]

Quant Rev: 6
Quant Time: 940527 16:19
Injected at: 940527 15:41
Dilution Factor: 1.00000

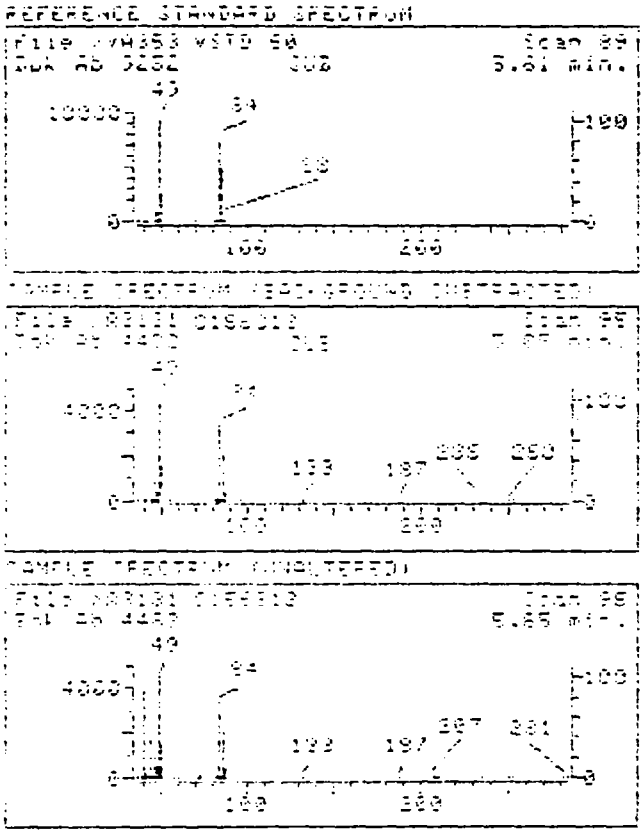
OK
GES 5/27/94

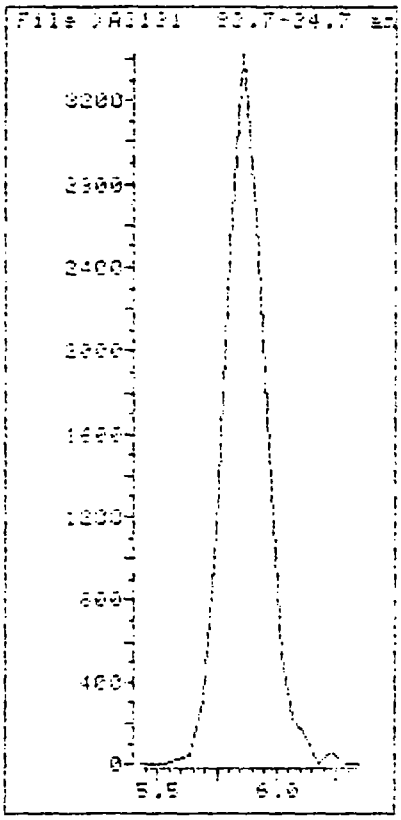
[illegible]
Title: [illegible]
Last Calibration: [illegible]

Compound	R.T.	Ulcon	Area	Conc	Units	q
[illegible]	9.4[illegible]	[illegible]	[illegible]	50.[illegible]	[illegible]	100
[illegible]	5.[illegible]	[illegible]	[illegible]	43.[illegible]	[illegible]	100
[illegible]	1[illegible]	[illegible]	[illegible]	4[illegible]	[illegible]	[illegible]
[illegible]	1[illegible]	1[illegible]	[illegible]	50.[illegible]	[illegible]	89
[illegible]	16.[illegible]	[illegible]	[illegible]	39.17	[illegible]	94
[illegible]	[illegible]	[illegible]	[illegible]	50.[illegible]	[illegible]	[illegible]
[illegible]	2[illegible]	[illegible]	[illegible]	4.94	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	96
[illegible]	[illegible]	[illegible]	[illegible]	9.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	4[illegible].41	[illegible]	[illegible]

Compound is [illegible]

001139



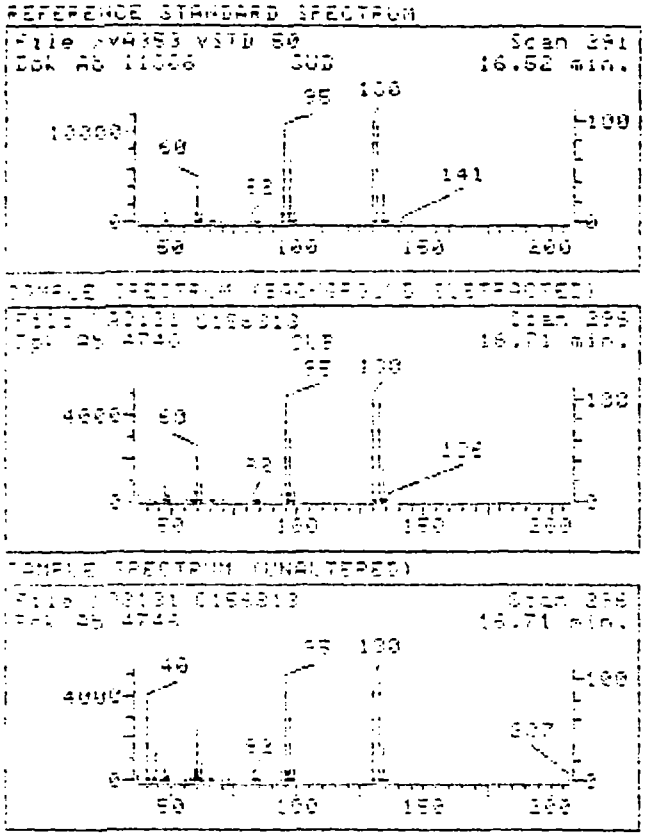


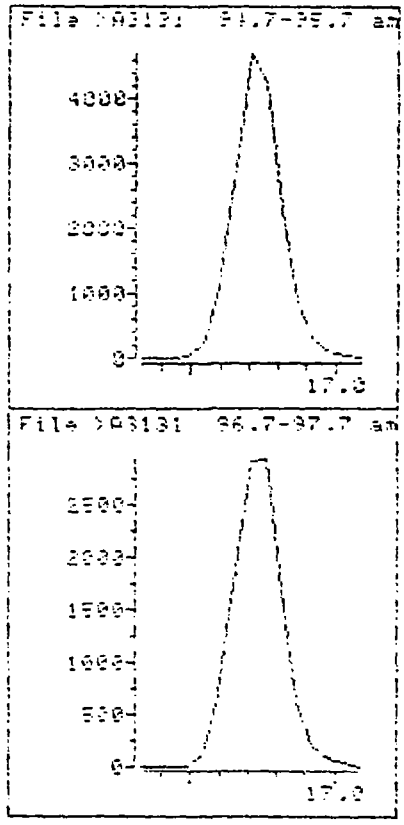
Data File: >A3131::E6
Name: C156813
Misc: FG SAMPLE - HPE/BM
Quant Time: 940527 16:19
Injected at: 940527 15:41

Quant Output File: ^A3131::SS
Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 95
Retention Time: 5.85 min.
Quant Ion: 84.0
Area: 40566
Concentration: 33.55 UG/KG
q-value: 100

ok
GES
5/27/94





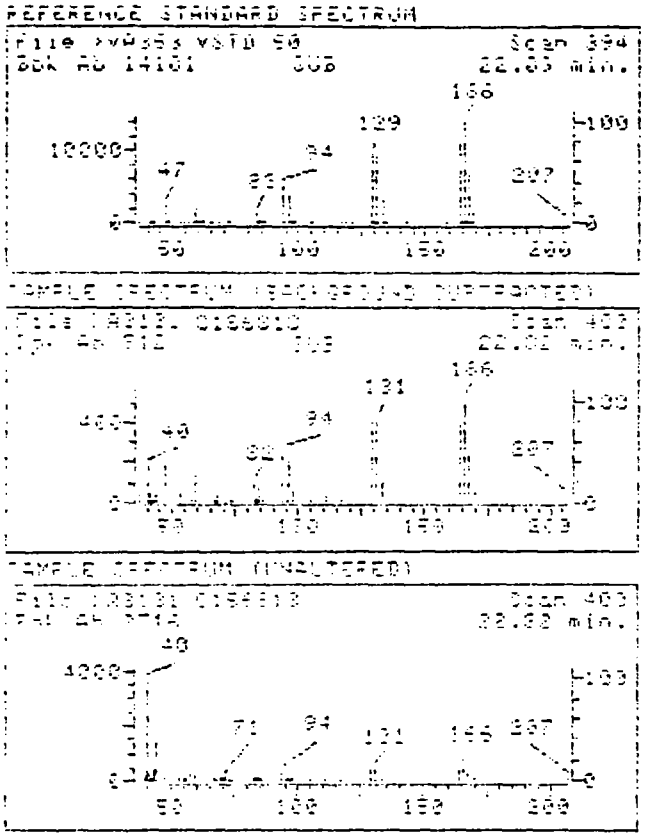
Data File: >A3131::S6
Name: C156813
Misc: 5% SAMPLE - HRS/BM
Quant Time: 940527 16:19
Injected at: 940527 15:41

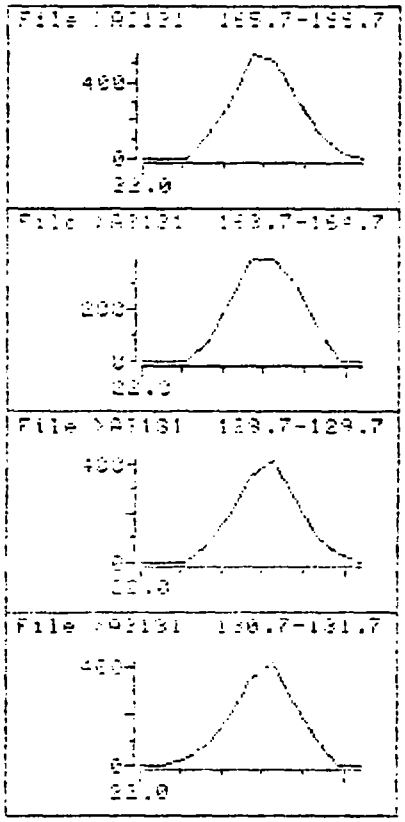
Quant Output File: ^A3131::SS

Quant ID File: IDSVCA::D5
Last Calibration: 940527 10:57

Compound No: 28
Compound Name: Trichloroethane
Scan Number: 296
Retention Time: 16.71 min.
Quant Ion: 95.0
Area: 54875
Concentration: 39.17 UG/KG
q-value: 96

OK
CES
5/27/94



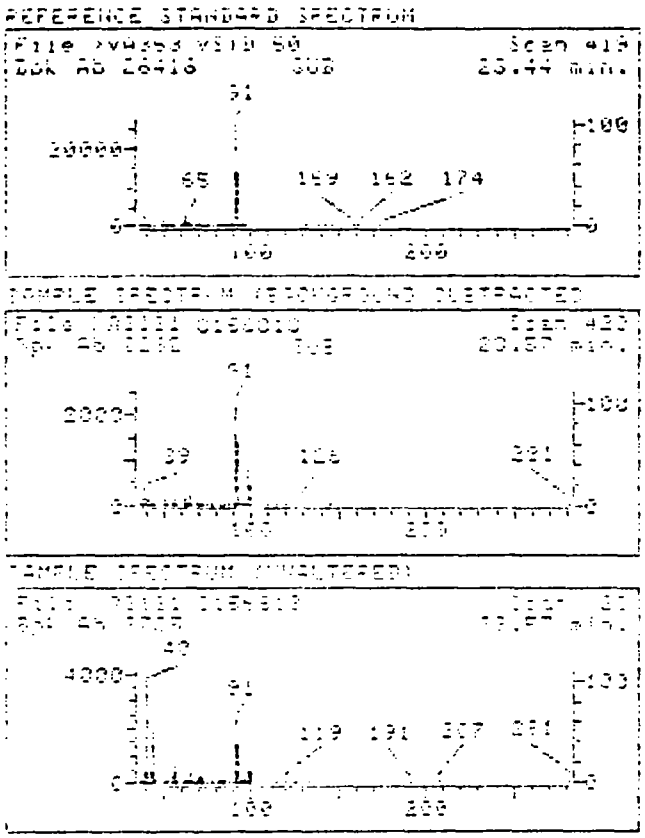


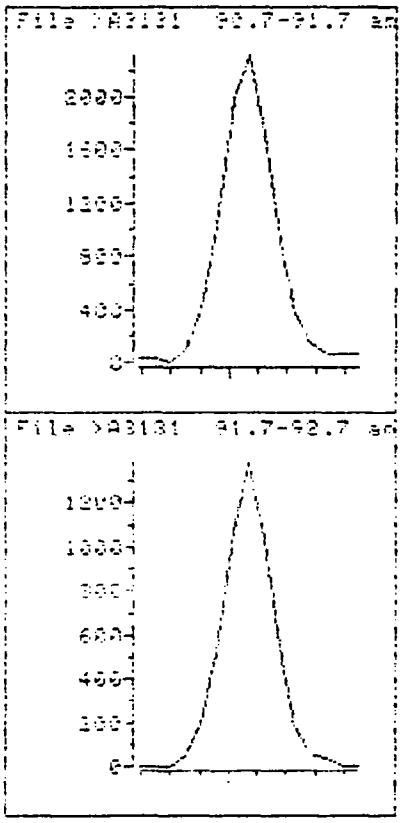
Data File: >A3131::E6
Name: C156813
Misc: SG SAMPLE - HPE/SM
Quant Time: 940527 16:19
Injected at: 940527 15:41

Quant Output File: ^A3131::SS
Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 38
Compound Name: Tetrachloroethene
Scan Number: 400
Retention Time: 22.32 min.
Quant Ion: 164.0
Area: 4852
Concentration: 4.94 UG/KG
q-value: 93

OK
CES
5/27/94





Data File: ^A3131::R6
Name: C156813
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940527 16:19
Injected at: 940527 15:41

Quant Output File: ^A3131::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 41
Compound Name: Toluene
Scan Number: 423
Retention Time: 23.57 min.
Quant Ion: 92.0
Area: 16475
Concentration: 9.82 UG/KG
q-value: 96

OK
CES
5/27/94

[illegible] REPORT

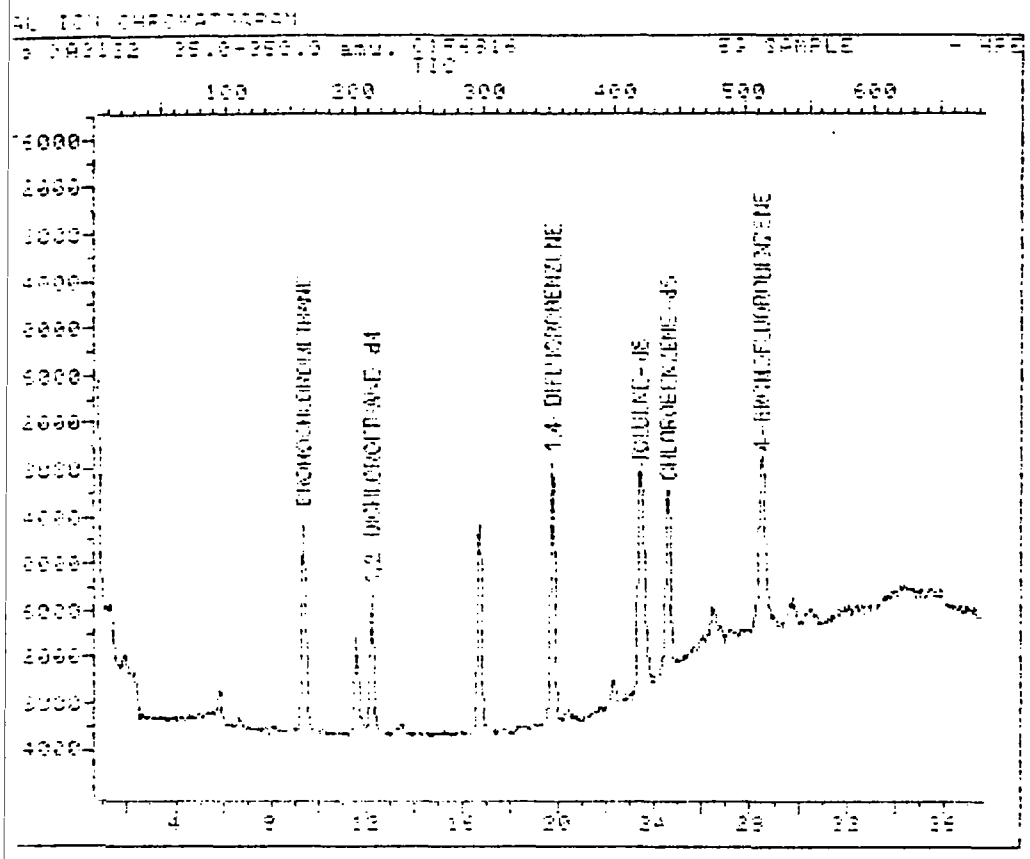
Operator ID: [illegible] Chart Rev: 6 Chart Time: [illegible] 12:00
Output File: [illegible] Injected at: [illegible] 14:31
Data File: [illegible] Dilution Factor: [illegible]
Name: [illegible]
Type: [illegible]

[illegible]
[illegible]
[illegible]

MX Prover OK
JS
5/31/94

	Component	R.T.	Conc	Area	Peak	Units	Q
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

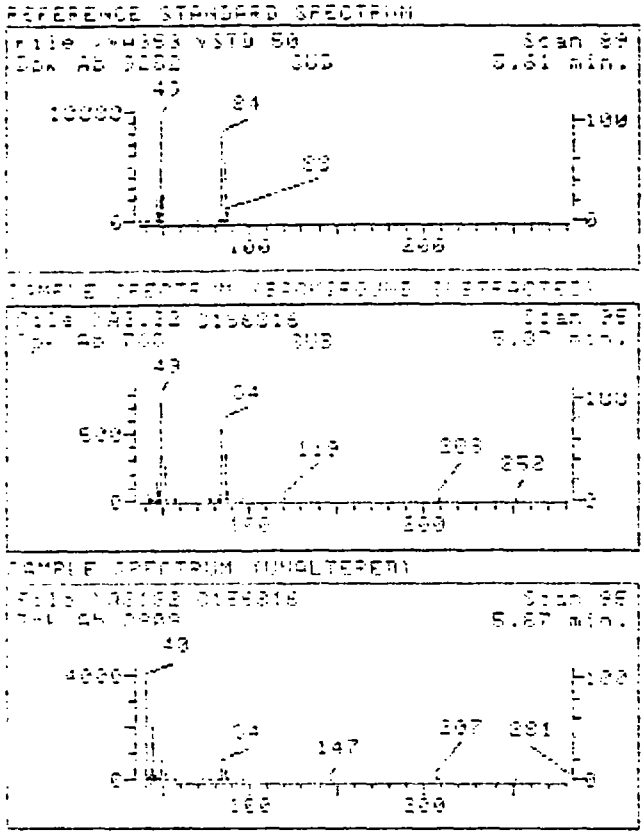
[illegible]

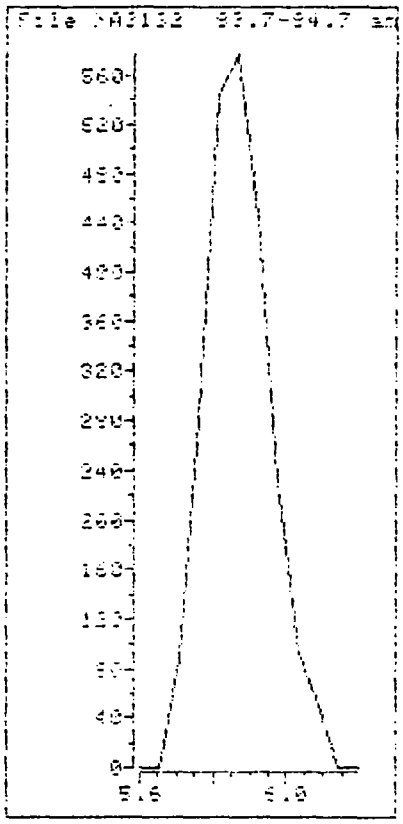


Data File: >A3132::56 Quant Output File: ^A3132::55
Name: C156816
Misc: 5G SAMPLE - HPE/SM

Id File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 17:09
Injected at: 940527 16:31





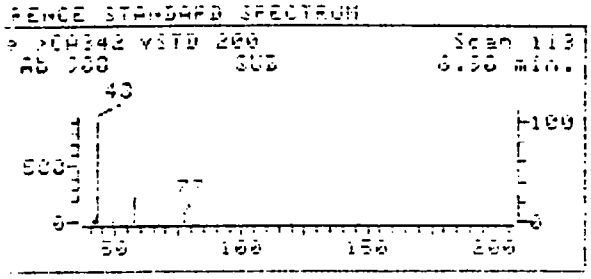
Data File: XA3132::E6
Name: C156816
Misc: FS SAMPLE - HVE/WM
Quant Time: 940527 17:09
Injected at: 940527 16:31

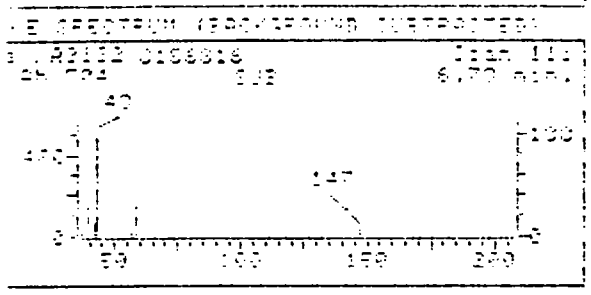
Quant Output File: XA3132::S8
Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

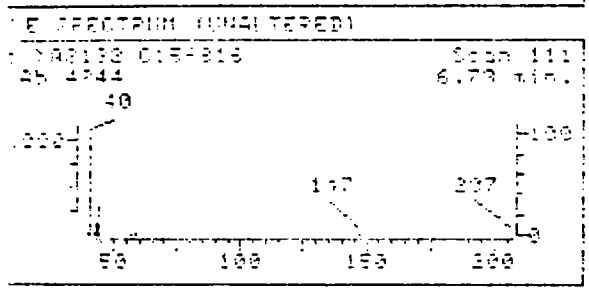
Compound No: 7
Compound Name: Methylene Chloride
Scan Number: 95
Retention Time: 5.87 min.
Quant Ion: 84.0
Area: 7501
Concentration: 9.50 UG/KG
q-value: 100

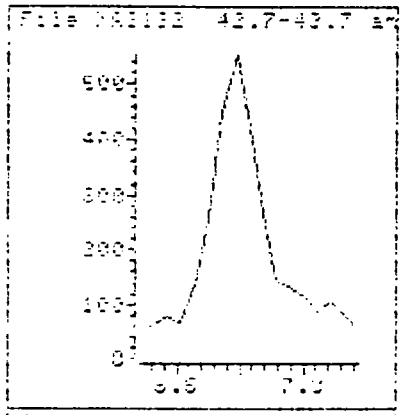
SKS

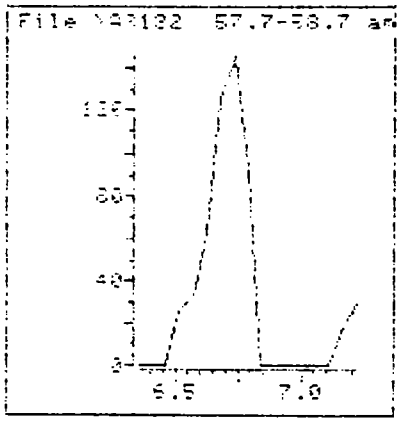
001146











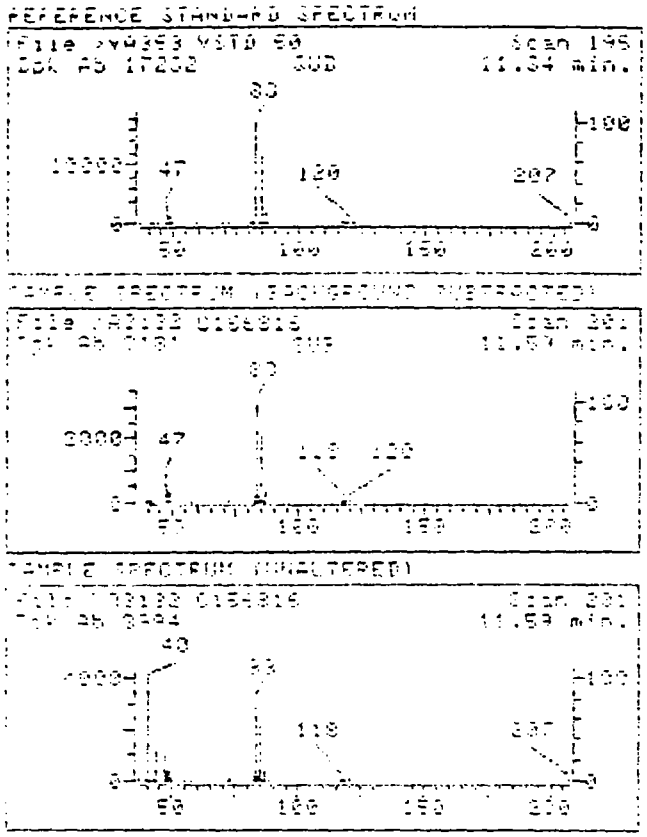
Data File: >A3132::S6
Name: C156816
Misc: 5G SAMPLE - PRE/BM
Quant Time: 940527 17:09
Injected at: 940527 16:31

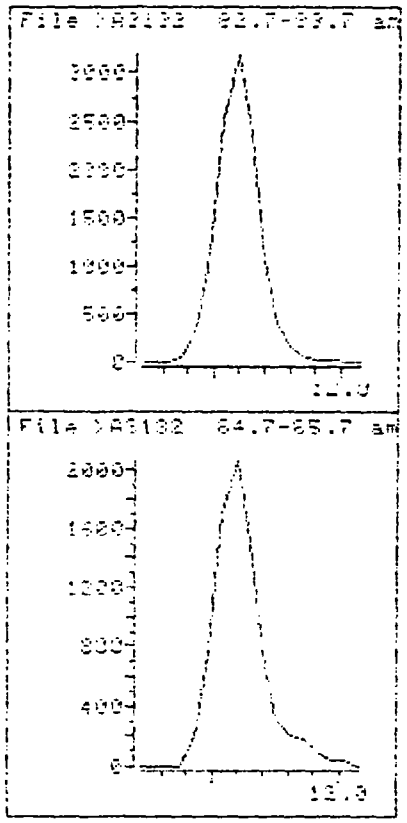
Quant Output File: ^A3132::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 8
Compound Name: Acetone
Scan Number: 111
Retention Time: 6.73 min.
Quant Ion: 43.0
Area: 7349
Concentration: 33.46 UG/KG
q-value: 93

SKS



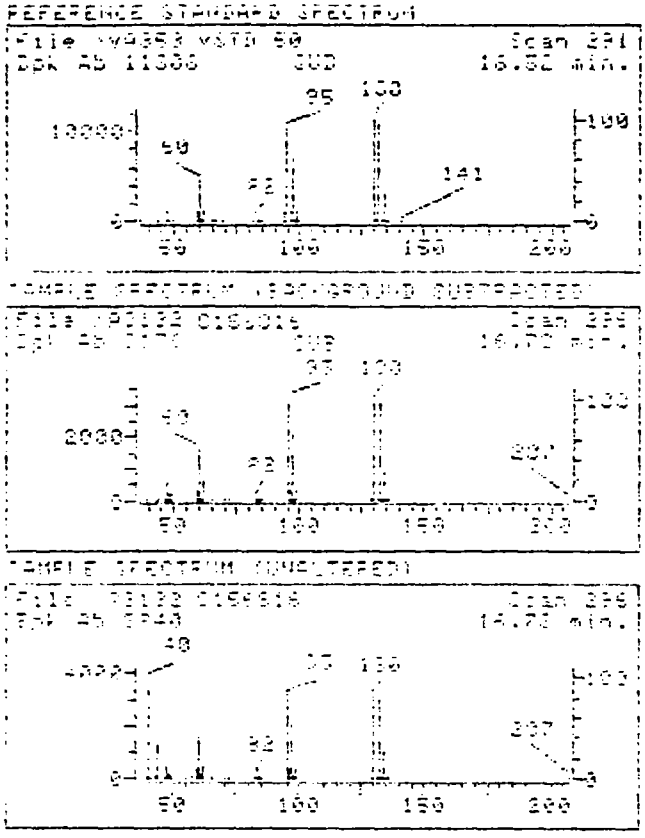


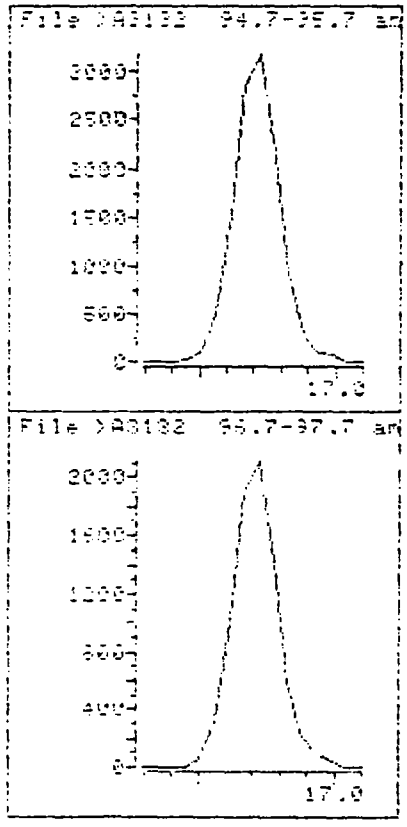
Data File: >A3132::56
Name: C156816
Misc: KG SAMPLE - [illegible]
Quant Time: [illegible]
Injected at: [illegible]

Quant Output File: ^A3132::55
Quant [illegible] File: [illegible]
Last Calibration: [illegible]

Compound No: 17
Compound Name: Chloroform
Scan Number: 201
Retention Time: 11.59 [illegible]
Quant Ion: 83.1
Area: 36611
Concentration: 17.56 UG/MG
q-value: [illegible]

SKS





Data File: >A3132::E6
Name: C156816
Misc: 5G SAMPLE - PRE/BM
Quant Time: 940527 17:09
Injected at: 940527 16:31

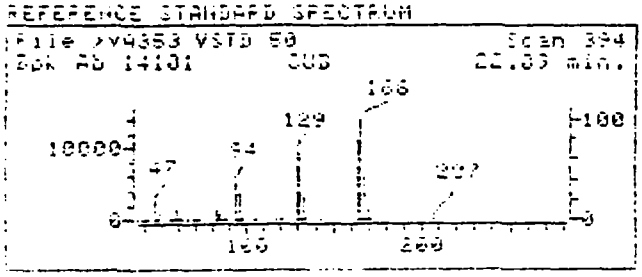
Quant Output File: ^A3132::SS

Quant ID File: IOS^OA::05
Last Calibration: 940527 10:57

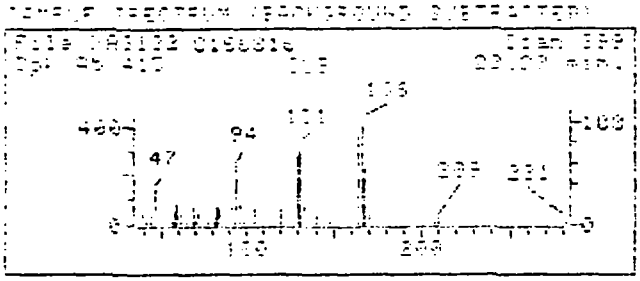
Compound No: 28
Compound Name: Trichloroethene
Scan Number: 296
Retention Time: 16.72 min.
Quant Ion: 95.0
Area: 37977
Concentration: 42.15 UG/KG
q-value: 98

SKS

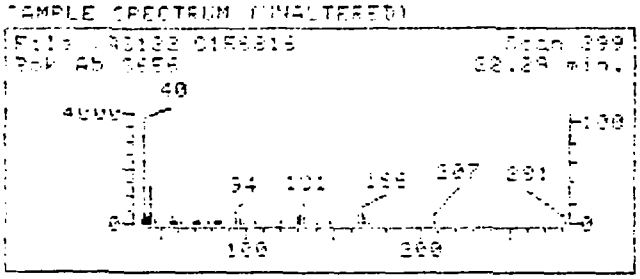
REFERENCE STANDARD SPECTRUM

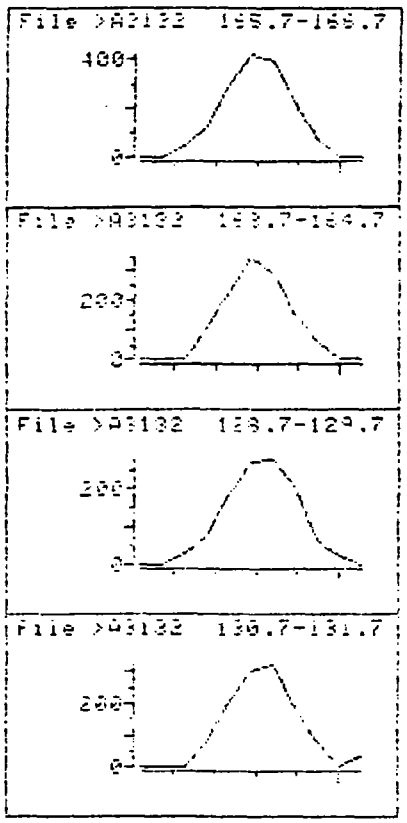


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





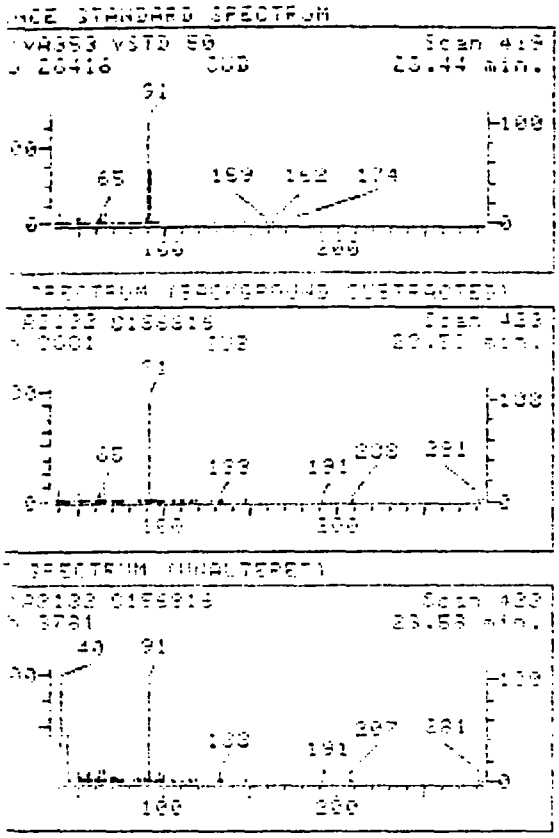
Data File: >A3132::E6
Name: C156816
Misc: 5G SAMPLE - HWE/BM
Quant Time: 940527 17:09
Injected at: 940527 16:31

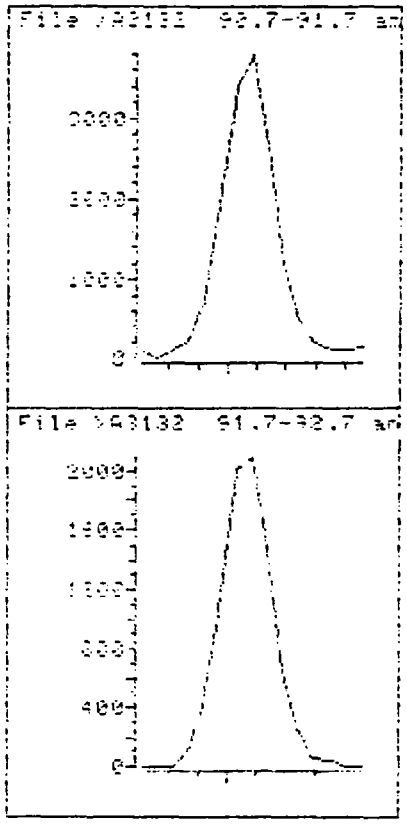
Quant Output File: ^A3132::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 38
Compound Name: Tetrachloroethene
Scan Number: 399
Retention Time: 22.29 min.
Quant Ion: 164.0
Area: 3831
Concentration: 7.04 UG/KG
q-value: 93

SKS





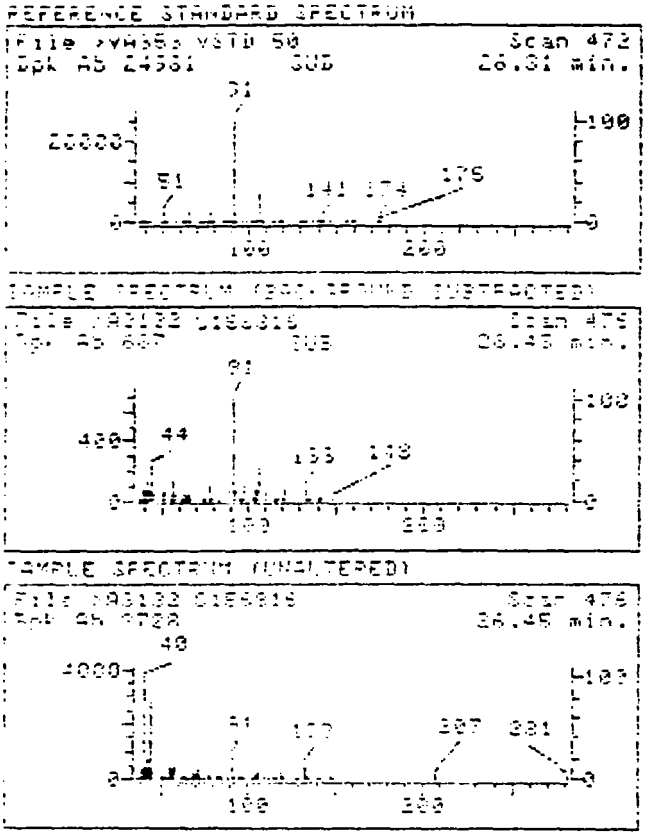
ata File: >A3132::E6
me: C156816
ac: 5G SAMPLE - HPE/BM
ant Time: 940527 17:09
njected At: 940527 16:31

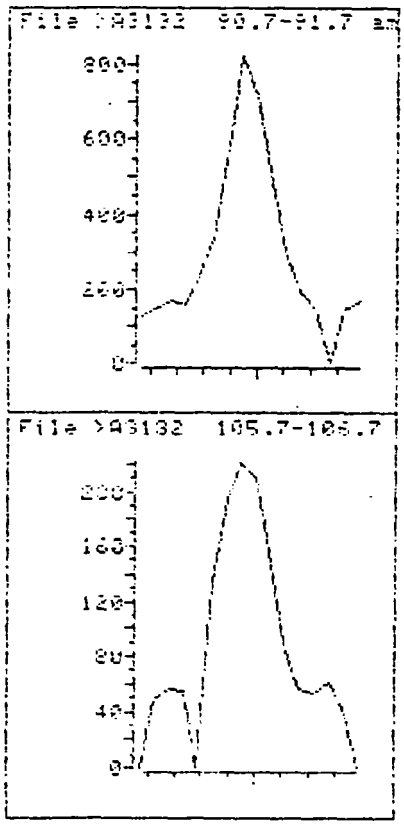
Quant Output File: ^A3132::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

ompound No: 41
ompound Name: Toluene
can Number: 423
etention Time: 23.58 min.
uant Ion: 92.0
rea: 26473
oncentration: 28.44 UG/KG
-value: 89

SKS





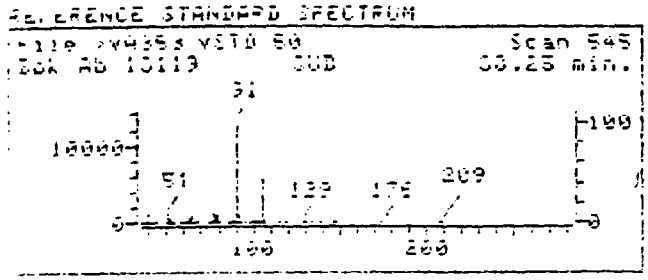
Data File: >A3132::E6
Name: C156816
Misc: 5G SAMPLE - HRE/BM
Quant Time: 940527 17:09
Injected at: 940527 16:31

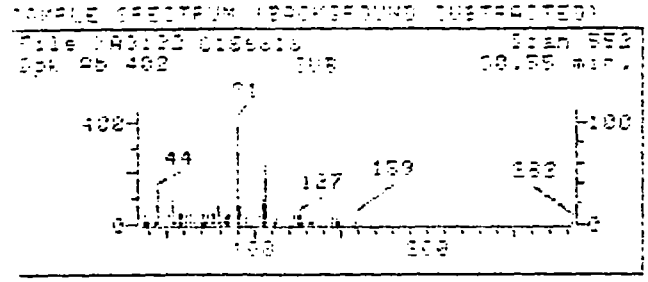
Quant Output File: ^A3132::SS

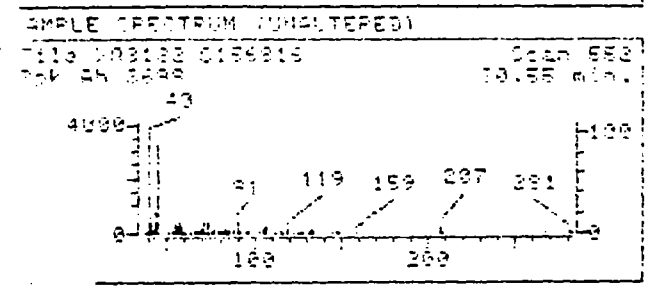
Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

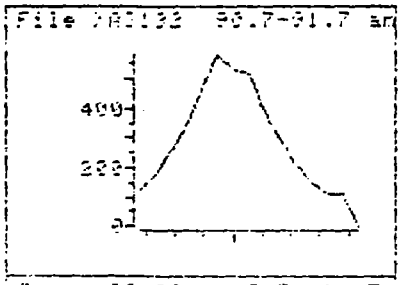
Compound No: 43
Compound Name: Ethyl Benzene
Scan Number: 476
Retention Time: 26.45 min.
Quant Ion: 106.0
Area: 4455
Concentration: 7.47 UG/KG
q-value: 91

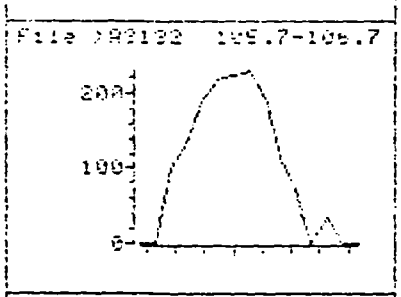
SKS

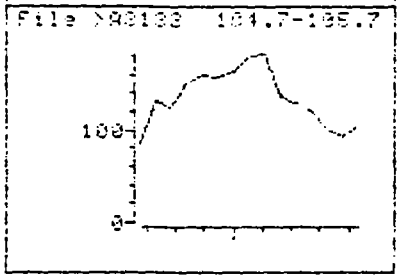












Data File: >A3132::E6
Name: C156816
Mism: 5% SAMPLE - HPE/5%
Quant Time: 940527 17:09
Injected at: 940527 16:31

Quant Output File: ^A3132::SS

Quant ID File: IDSVOA::D5
Last Calibration: 940527 10:57

Compound No: 46
Compound Name: Total Xylenes
Scan Number: 552
Retention Time: 30.55 min.
Quant Ion: 106.0
Area: 4897
Concentration: ~~7.03~~ 16.43 UG/KG
q-value: 87

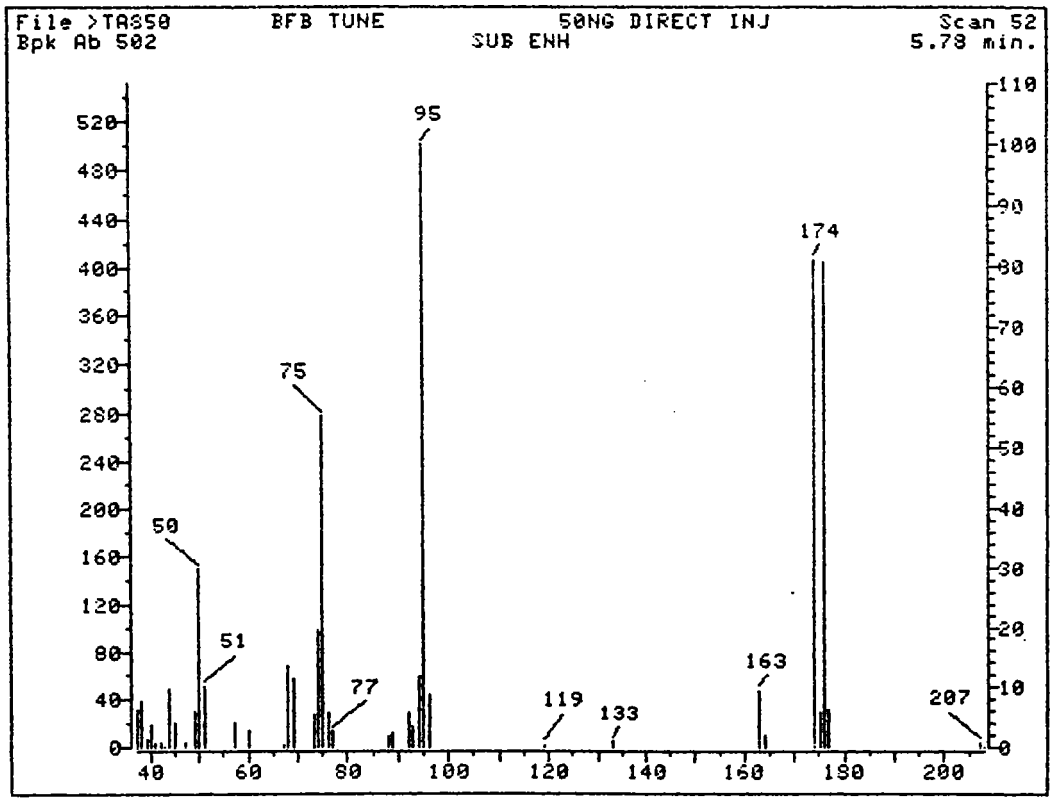
SES

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	29.82	29.82	Ok
75	30-60% of mass 95	55.34	55.34	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.65	8.65	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	81.02	81.02	Ok
175	5-9% of mass 174	5.82	7.19	Ok
176	95-101% of mass 174	80.58	99.46	Ok
177	5-9% of mass 176	5.98	7.42	Ok

Injection Date: 05/13/94
Injection Time: 10:39
Data File: >TA850
Scan: 52



File: >TA850 Scan #: 52 Retn. time: 5.78

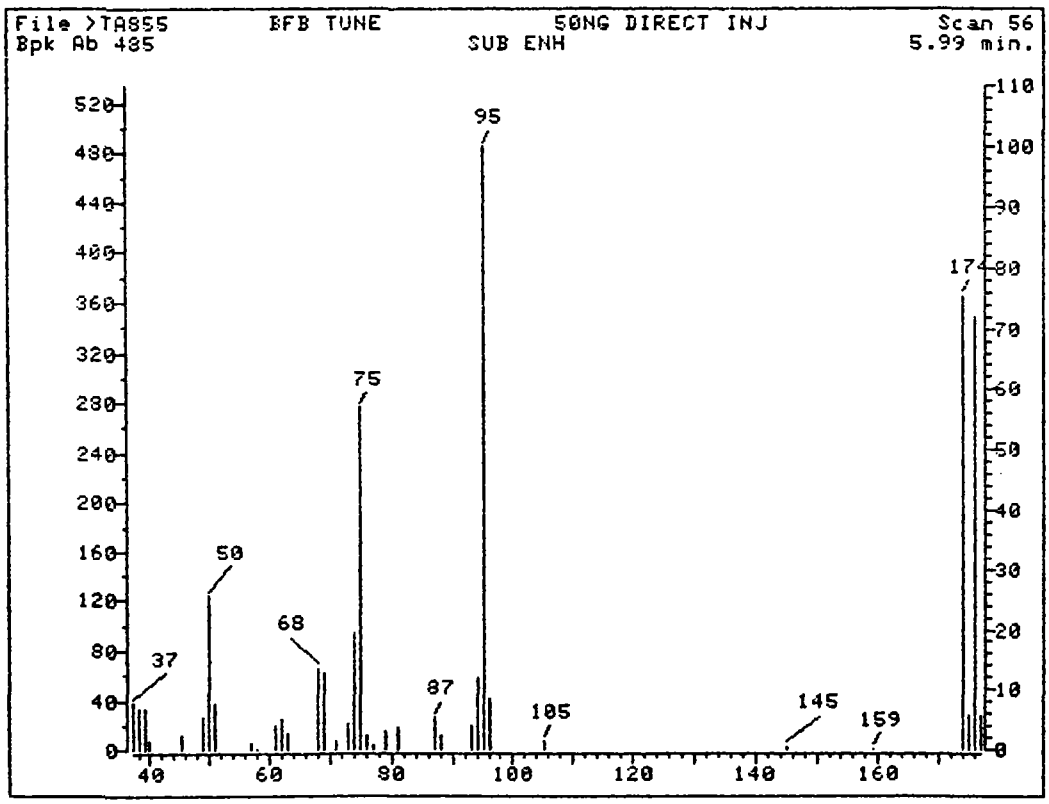
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	6.499	45.05	3.907	68.00	13.317	89.00	2.472	163.05	9.450
38.00	7.656	46.95	.558	69.05	11.443	92.00	5.622	164.05	1.954
39.05	1.515	49.05	6.061	73.05	5.463	93.00	3.389	173.95	81.021
39.95	3.828	50.05	29.825	74.05	19.498	94.10	11.802	175.20	5.821
41.05	.598	51.05	10.247	75.05	55.343	95.00	100.000	176.00	80.582
42.15	.598	57.10	3.907	76.05	5.901	96.10	8.652	177.00	5.981
43.05	.040	60.00	2.751	77.05	2.592	119.00	.518	207.10	.758
43.95	9.928	67.10	.518	88.00	1.794	133.05	.877	208.10	.199

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	25.53	25.53	Ok
75	30-60% of mass 95	56.95	56.95	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.33	8.33	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	75.30	75.30	Ok
175	5-9% of mass 174	5.77	7.67	Ok
176	95-101% of mass 174	71.75	95.29	Ok
177	5-9% of mass 176	5.73	7.99	Ok

Injection Date: 05/18/94
Injection Time: 09:33
Data File: >TA855
Scan: 56



>TA855 BFB TUNE 50NG DIRECT INJ
56 SUB NRM ENH

File: >TA855 Scan #: 56 Retn. time: 5.99

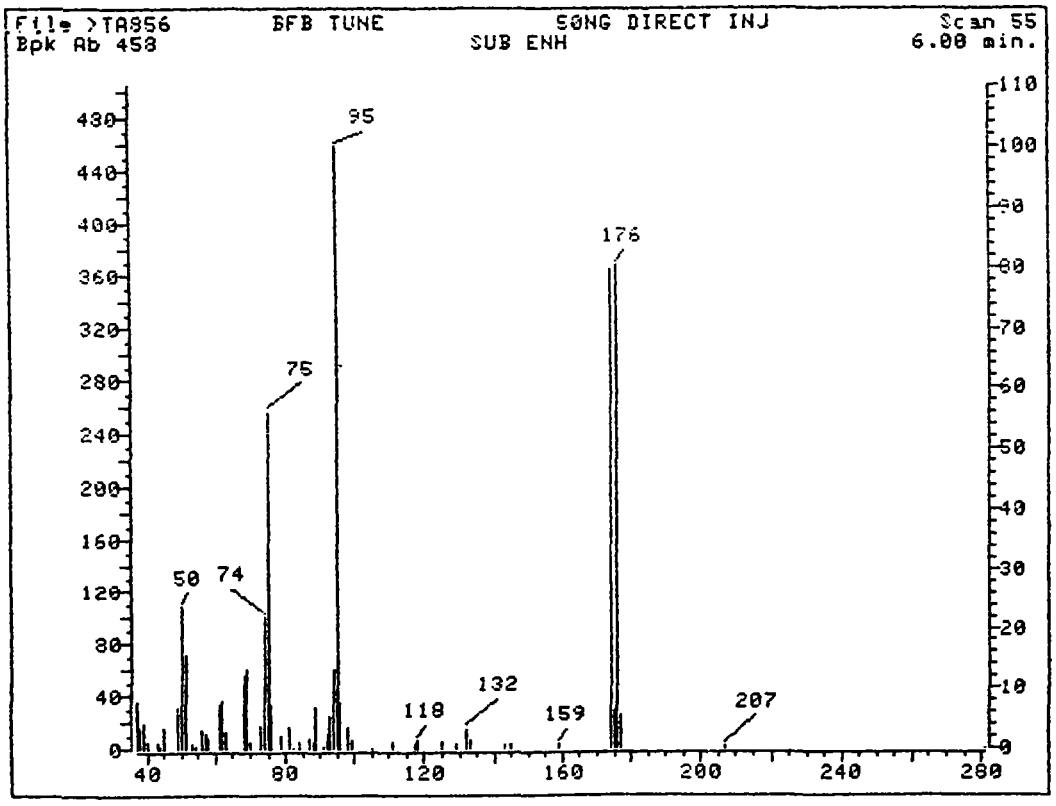
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	7.629	57.10	.907	70.95	1.361	80.95	3.670	105.05	1.485
38.10	6.804	58.00	.041	73.05	4.536	87.00	5.278	145.10	.412
39.05	6.763	61.00	4.041	74.05	19.546	88.00	2.351	159.10	.165
39.95	1.361	62.00	5.237	75.05	56.948	93.00	4.000	173.95	75.299
45.05	2.227	63.00	2.887	76.05	2.474	94.10	12.206	175.10	5.773
49.05	5.567	68.00	13.526	77.05	.825	95.00	100.000	176.00	71.753
50.05	25.526	69.05	12.866	78.95	3.216	96.00	8.330	177.00	5.732
50.95	7.505								

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	23.40	23.40	Ok
75	30-60% of mass 95	55.78	55.78	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.46	7.46	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	79.75	79.75	Ok
175	5-9% of mass 174	6.07	7.61	Ok
176	95-101% of mass 174	80.27	100.66	Ok
177	5-9% of mass 176	5.37	6.69	Ok

Injection Date: 05/19/94
Injection Time: 08:42
Data File: >TA856
Scan: 55



001158

>TA856 BFB TUNE 50NG DIRECT INJ
55 SUB NRM ENH

File: >TA856 Scan #: 55 Retn. time: 6.00

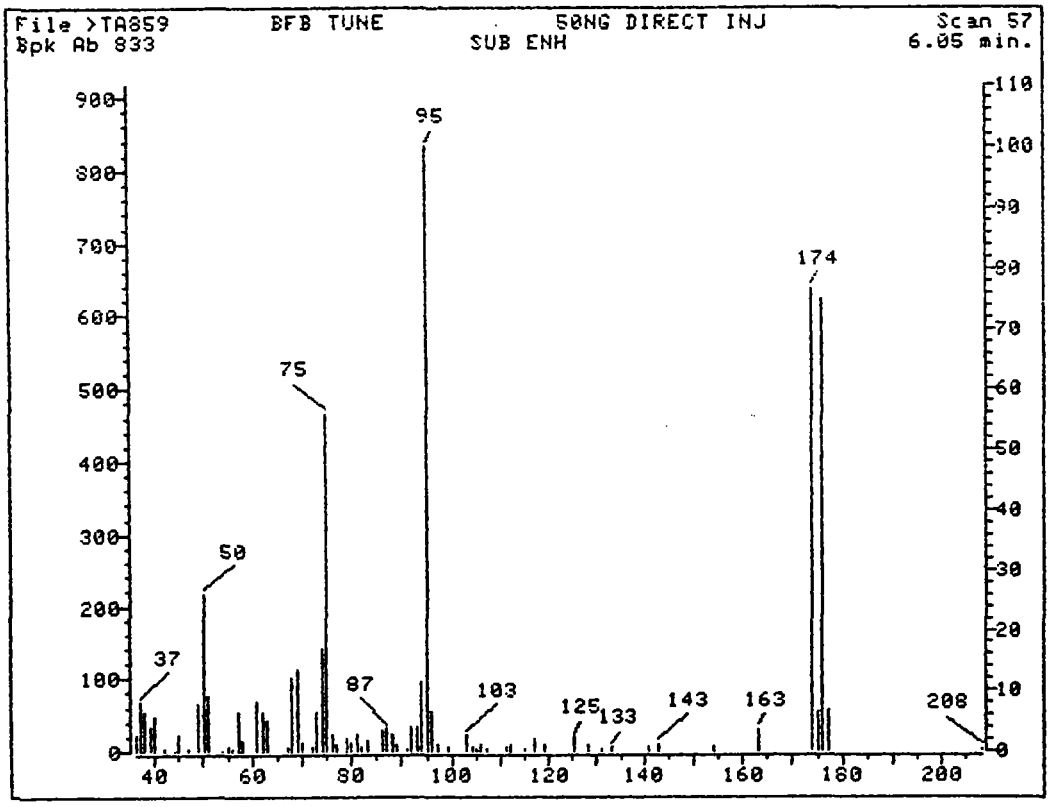
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	7.639	56.10	3.099	76.05	6.940	94.10	13.138	132.15	3.099
38.00	3.230	57.10	2.488	79.05	1.964	95.00	100.000	133.15	1.528
39.05	4.147	58.00	1.702	81.05	3.230	96.00	7.464	143.05	.698
39.95	1.004	61.00	7.027	82.05	.087	98.00	3.448	145.10	.698
43.05	1.135	62.00	7.813	84.20	.960	99.05	1.484	159.10	.698
43.95	.480	63.10	2.575	87.00	1.702	105.15	.087	173.95	79.747
45.05	3.317	68.00	12.047	88.10	.917	111.15	1.179	175.20	6.067
48.95	6.591	69.05	13.182	89.00	6.897	117.10	.567	176.00	80.271
50.05	23.396	70.05	1.048	91.00	.306	118.00	1.266	177.00	5.369
51.05	15.626	73.05	3.667	92.00	2.532	125.10	1.179	207.10	.262
53.05	.655	74.05	21.694	93.00	5.500	129.05	.567	281.15	.087
54.10	.349	75.05	55.784						

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	25.89	25.89	Ok
75	30-60% of mass 95	55.83	55.83	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.41	6.41	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	76.65	76.65	Ok
175	5-9% of mass 174	6.25	8.15	Ok
176	95-101% of mass 174	75.02	97.87	Ok
177	5-9% of mass 176	6.61	8.81	Ok

Injection Date: 05/24/94
Injection Time: 10:29
Data File: >TA859
Scan: 57



001160

>TA859 BFB TUNE 50N6 DIRECT INJ
57 SUB NRM ENH

File: >TA859 Scan #: 57 Retn. time: 6.05

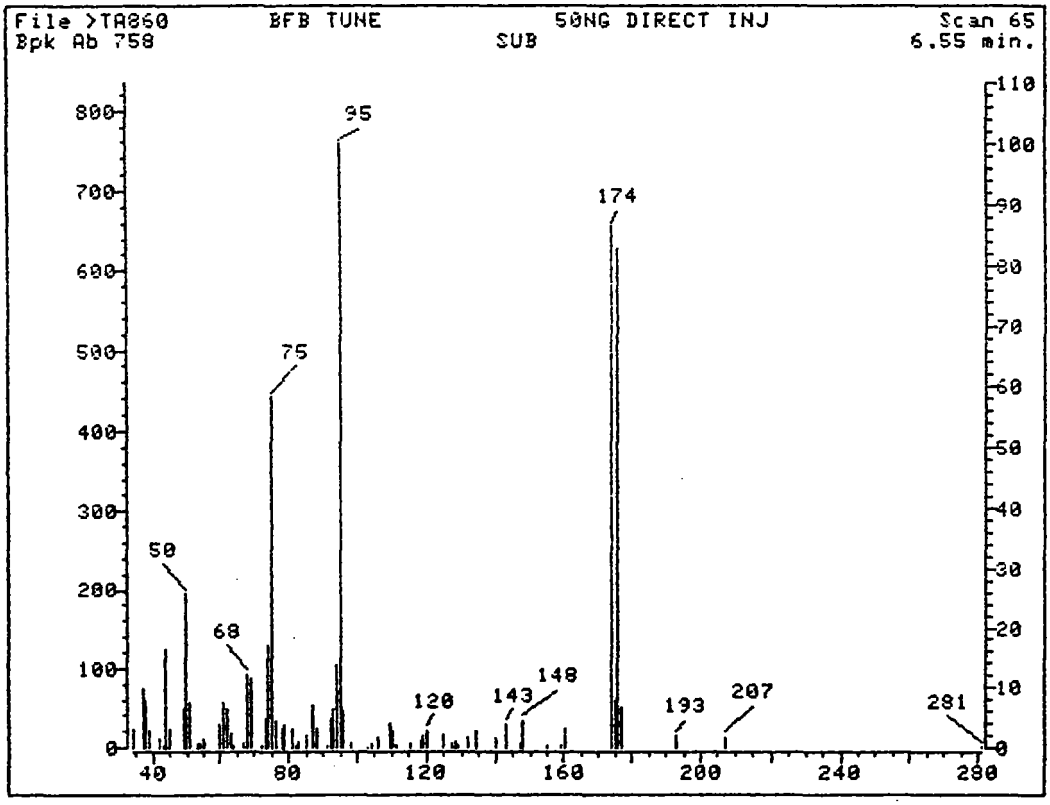
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	2.714	56.10	.528	76.05	2.834	94.00	11.482	119.10	.913
37.00	8.047	57.10	6.414	77.05	.961	95.00	100.000	125.10	2.258
38.00	6.294	58.10	1.585	79.05	1.970	96.10	6.414	128.10	.889
39.05	4.036	61.00	7.951	80.05	1.225	97.10	.889	131.15	.384
39.95	5.789	62.00	6.318	81.05	2.714	99.15	.649	133.15	.601
42.05	.360	63.00	4.972	82.05	.769	103.05	2.690	141.05	.601
43.95	.120	67.10	.745	83.05	1.874	104.05	.817	143.05	1.057
45.05	2.618	68.00	12.155	86.10	3.387	105.05	.336	154.10	.625
46.95	.504	69.05	13.452	87.00	3.699	106.05	.913	163.15	3.459
49.05	7.831	70.15	1.465	88.00	2.834	107.05	.480	173.95	76.651
50.05	25.895	72.05	.577	89.10	.913	111.15	.865	175.20	6.245
51.05	9.200	73.05	6.342	91.00	.312	112.05	.937	176.00	75.018
54.10	.072	74.05	16.671	92.00	3.963	115.10	.384	177.10	6.606
55.10	.673	75.05	55.825	93.10	4.012	117.00	2.066	208.20	.480

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	25.86	25.86	Ok
75	30-60% of mass 95	58.31	58.31	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.07	6.07	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	86.54	86.54	Ok
175	5-9% of mass 174	7.78	8.99	Ok
176	95-101% of mass 174	82.98	95.88	Ok
177	5-9% of mass 176	6.86	8.27	Ok

Injection Date: 05/25/94
Injection Time: 08:10
Data File: >TA860
Scan: 65



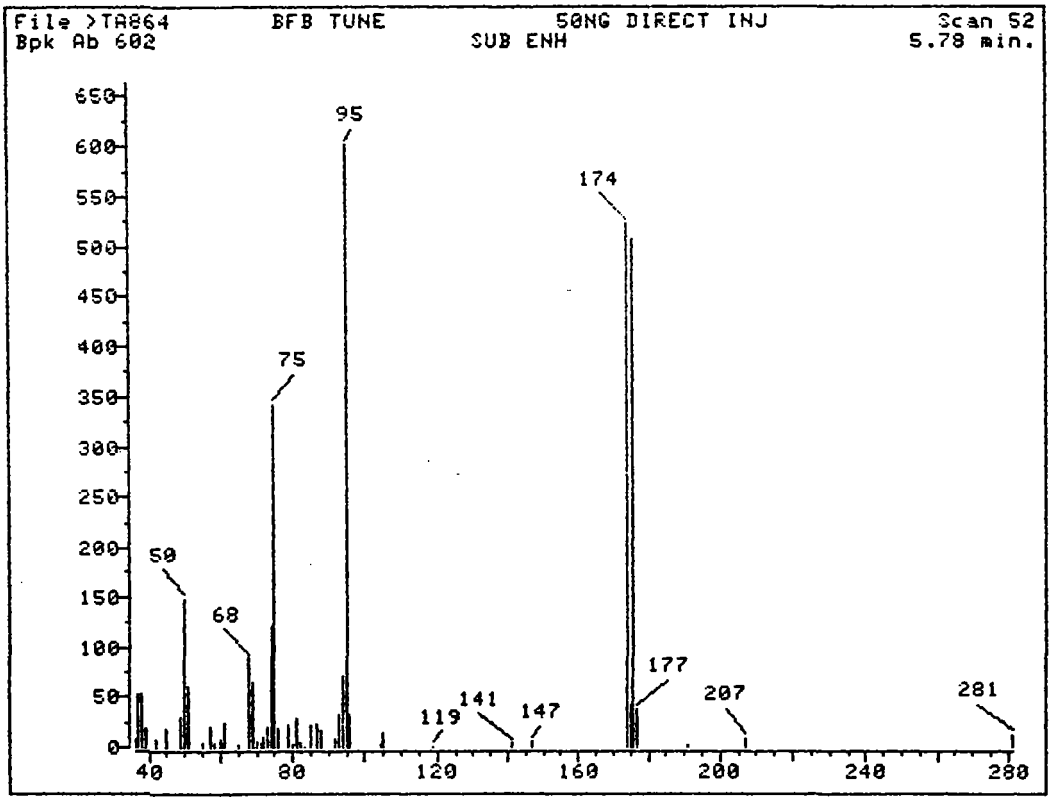
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
34.00	3.034	61.00	7.520	82.05	.528	106.05	1.583	140.15	1.715
37.00	9.631	62.00	6.464	83.05	1.055	109.15	3.958	143.05	3.826
38.00	7.652	63.00	2.375	85.20	1.979	110.05	2.639	147.10	.660
9.05	2.770	64.10	.264	87.10	6.992	111.15	.396	148.10	4.485
42.05	1.715	67.00	.660	88.10	3.166	115.10	.792	155.10	.396
43.05	.264	68.00	12.137	91.10	.396	118.10	1.187	159.10	.396
43.95	16.359	69.05	11.346	92.00	4.617	119.10	2.111	160.25	3.034
45.05	3.166	72.15	.396	93.10	6.464	120.10	2.770	173.95	86.544
49.05	6.332	73.05	4.881	94.00	13.852	125.10	1.979	175.10	7.784
49.95	25.858	74.05	17.282	95.00	100.000	127.10	.660	176.00	82.982
50.95	7.520	75.05	58.311	96.10	6.069	128.10	1.187	177.00	6.860
53.05	.792	76.05	4.354	98.10	.792	129.15	.396	193.15	1.979
54.10	.792	78.05	2.902	103.05	.132	132.05	1.847	207.10	1.847
55.10	1.319	78.95	3.562	104.05	.792	134.15	2.639	281.15	.264
60.00	3.694	81.05	3.166						

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	24.59	24.59	Ok
75	30-60% of mass 95	56.83	56.83	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	5.52	5.52	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	86.84	86.84	Ok
175	5-9% of mass 174	7.24	8.34	Ok
176	95-101% of mass 174	84.35	97.13	Ok
177	5-9% of mass 176	6.25	7.41	Ok

Injection Date: 05/27/94
Injection Time: 08:37
Data File: >TA864
Scan: 52



>TA864 BFB TUNE 50NG DIRECT INJ
52 SUB NRM ENH

File: >TA864 Scan #: 52 Retn. time: 5.78

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	1.396	57.10	3.357	73.05	3.523	87.00	3.822	141.05	.598
37.00	8.907	58.10	.864	74.05	20.140	88.10	2.692	147.10	.997
38.00	8.907	60.00	1.363	75.05	56.830	92.10	1.363	173.95	86.839
39.05	3.024	61.00	3.922	76.05	3.057	93.00	5.450	175.10	7.245
42.05	1.296	65.00	.366	79.05	3.722	94.00	11.931	176.00	84.347
45.05	3.091	68.00	14.722	79.95	.532	95.10	100.000	177.00	6.248
48.95	5.218	69.05	10.867	80.95	4.819	96.00	5.517	191.05	.332
50.05	24.593	70.15	1.030	82.05	.698	104.05	.432	207.10	1.462
51.05	10.236	71.15	.598	83.05	.066	105.05	2.426	281.15	2.127
55.10	.565	72.05	1.761	85.10	3.888	119.10	.066		

QUANT REPORT

ator ID: USER8 Quant Rev: 6 Quant Time: 940513 12:51
ut File: ^CA178::SS Injected at: 940513 12:12
File: >CA178::E4 Dilution Factor: 1.00000
: VSTD 20
: 20 PPB STD

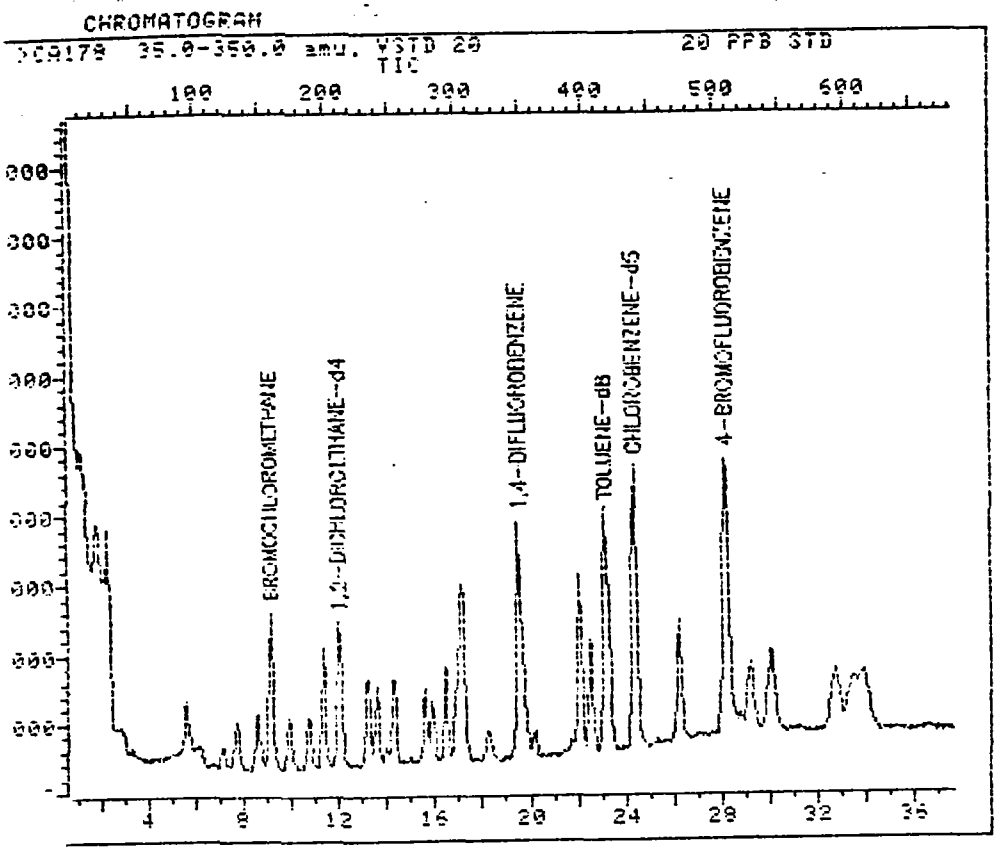
ile: IDSVOA::D5
e: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Calibration: 940511 14:53

	Compound	R.T.	Q ion	Area	Conc	Units	q
	*BROMOCHLOROMETHANE	9.16	128.0	41446	50.00	UG/KG	100
	Chloromethane	1.11	50.0	11789	24.85	UG/KG	84
	Bromomethane	1.86	94.0	8625	11.18	UG/KG	97
	Vinyl Chloride	2.40	62.0	15076	16.96	UG/KG	99
	Dichlorodifluoromethane	2.35	85.0	20078	10.56	UG/KG	93
	Chloroethane	3.38	64.0	10069	16.78	UG/KG	89
	Methylene Chloride	5.65	84.0	24201	20.74	UG/KG	100
	Acetone	6.73	43.0	9463	48.24	UG/KG	86
	Carbon Disulfide	7.11	76.0	38946	17.18	UG/KG	98
	Trichlorofluoromethane	7.75	101.0	48126	12.42	UG/KG	89
	1,1-Dichloroethene	8.56	96.0	19710	18.88	UG/KG	88
	1,1-Dichloroethane	9.91	63.0	43165	15.79	UG/KG	96
	Tetrahydrofuran	10.08	42.0	4651	56.63	UG/KG	90
	1,2-Dichloroethene	10.73	96.0	24137	20.88	UG/KG	93
	Chloroform	11.37	83.0	81586	21.59	UG/KG	99
	1,2-DICHLOROETHANE-d4	12.02	65.0	84183	37.61	UG/KG	95
	1,2-Dichloroethane	12.08	62.0	39734	16.55	UG/KG	96
	2-Butanone	12.13	43.0	12215	47.57	UG/KG	72
1)	*1,4-DIFLUOROBENZENE	19.53	114.0	159268	50.00	UG/KG	90
2)	1,1,1-Trichloroethane	13.26	97.0	51962	17.35	UG/KG	99
3)	Carbon Tetrachloride	13.64	117.0	44304	17.15	UG/KG	98
4)	Vinyl Acetate	14.02	43.0	25284	46.49	UG/KG	97
5)	Bromodichloromethane	14.29	83.0	53966	20.55	UG/KG	92
6)	1,2-Dichloropropane	15.59	63.0	21502	22.13	UG/KG	95
7)	cis-1,3-Dichloropropene	15.91	75.0	35998	29.50	UG/KG	92
8)	Trichloroethene	16.45	95.0	30011	20.46	UG/KG	95
9)	Benzene	16.94	78.0	53500	22.58	UG/KG	85
0)	Dibromochloromethane	17.10	129.0	42893	26.53	UG/KG	86
1)	1,1,2-Trichloroethane	17.21	97.0	21386	31.63	UG/KG	92
2)	trans-1,3-Dichloropropene	17.21	75.0	37301	19.83	UG/KG	100
3)	2-Chloroethyl Vinyl Ether	18.24	63.0	12098	35.33	UG/KG	100
34)	Bromoform	19.75	173.0	39193	35.69	UG/KG	99
35)	*CHLOROBENZENE-d5	24.34	117.0	131732	50.00	UG/KG	93
36)	4-Methyl-2-Pentanone	20.18	43.0	17234	41.34	UG/KG	95
	2-Hexanone	21.69	43.0	13936	46.73	UG/KG	89
	Tetrachloroethene	22.07	164.0	28897	20.84	UG/KG	97
39)	1,1,2,2,-Tetrachloroethane	22.02	83.0	35613	40.80	UG/KG	93
40)	TOLUENE-d8	23.10	98.0	145750	47.38	UG/KG	96
41)	Toluene	23.32	92.0	39424	22.84	UG/KG	94
42)	Chlorobenzene	24.45	112.0	51098	21.57	UG/KG	94
43)	Ethyl Benzene	26.18	106.0	23882	21.48	UG/KG	92
44)	4-BROMOFLUOROBENZENE	28.13	95.0	111381	45.11	UG/KG	100
	[illegible]	29.15	104.0	47797	22.60	UG/KG	86

001100

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	Total Xylenes	30.02	106.0	29617	21.73	UG/KG	96
47)	1,3-Dichlorobenzene	32.72	146.0	60745	22.57	UG/KG	85
48)	1,2-Dichlorobenzene	33.42	146.0	55430M	21.64	UG/KG	100
49)	1,4-Dichlorobenzene	33.91	146.0	60185M	22.94	UG/KG	92

* Compound is ISTD



Data File: >CA178::E4 Quant Output File: ^CA178::SS
Name: VSTD 20
Misc: 20 PPB STD

Id File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

Operator ID: USER8
Quant Time: 940513 12:51
Injected at: 940513 12:12

QUANT REPORT

or ID: USER8 Quant Rev: 6 Quant Time: 940513 13:36
File: ^CA179::SS Injected at: 940513 12:58
ile: >CA179::E4 Dilution Factor: 1.00000
VSTD 100
100 PPB STD

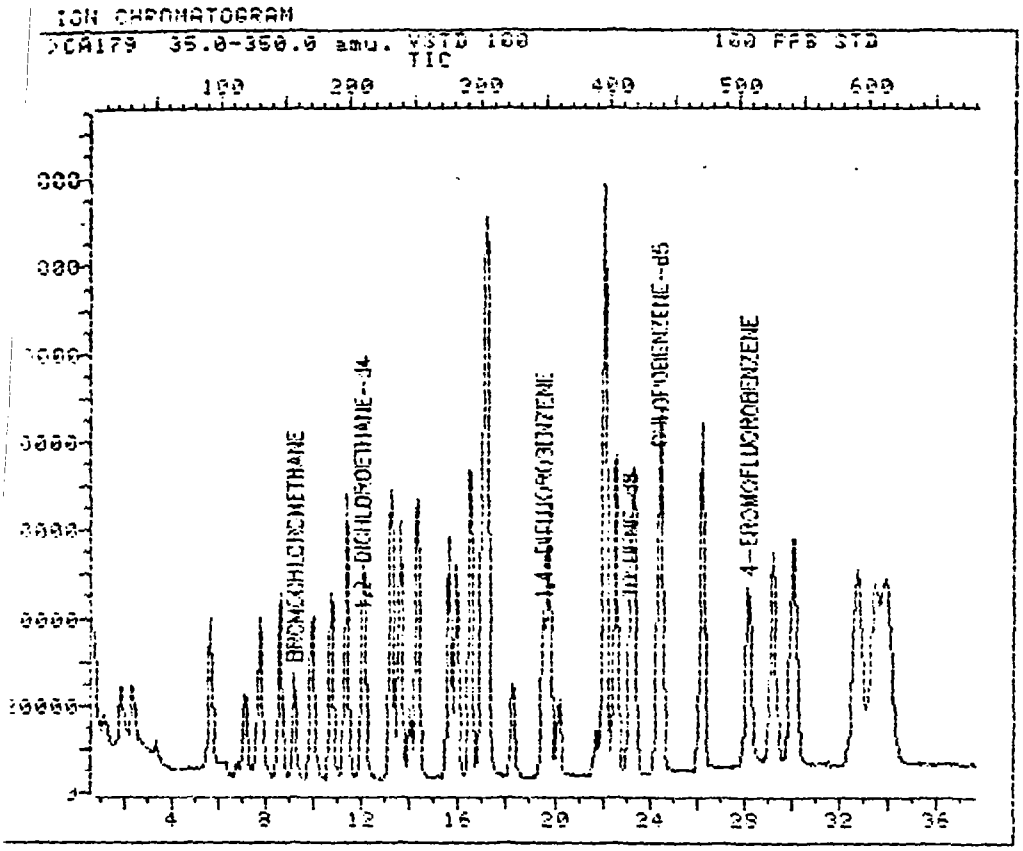
e: IDSVOA::D5
: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Calibration: 940511 14:53

Compound	R.T.	Q ion	Area	Conc	Units	q
BROMOCHLOROMETHANE	9.21	128.0	43288	50.00	UG/KG	100
Chloromethane	1.11	50.0	31875	64.33	UG/KG	93
Bromomethane	1.87	94.0	40817	50.66	UG/KG	98
Vinyl Chloride	2.41	62.0	71960	77.53	UG/KG	99
Dichlorodifluoromethane	2.35	85.0	89500	45.08	UG/KG	92
Chloroethane	3.38	64.0	44276	70.65	UG/KG	89
Methylene Chloride	5.65	84.0	104830	86.02	UG/KG	100
Acetone	6.84	43.0	23937	116.82	UG/KG	77
Acrolein	6.78	56.0	7137	155.21	UG/KG	91
bon Disulfide	7.11	76.0	203090	85.77	UG/KG	98
rylonitrile	7.54	53.0	14630	166.55	UG/KG	97
Trichlorofluoromethane	7.76	101.0	236738	58.51	UG/KG	88
1,1-Dichloroethene	8.62	96.0	92648	84.96	UG/KG	85
1,1-Dichloroethane	9.97	63.0	218838	76.67	UG/KG	96
Tetrahydrofuran	10.13	42.0	21663	252.53	UG/KG	98
1,2-Dichloroethene	10.73	96.0	101788	84.29	UG/KG	98
Chloroform	11.38	83.0	292437	74.08	UG/KG	99
1,2-DICHLOROETHANE-d4	12.02	65.0	93022	39.79	UG/KG	92
1,2-Dichloroethane	12.13	62.0	200699	80.06	UG/KG	98
2-Butanone	12.13	43.0	35126	130.97	UG/KG	80
*1,4-DIFLUOROBENZENE	19.54	114.0	172616	50.00	UG/KG	89
1,1,1-Trichloroethane	13.27	97.0	260497	80.24	UG/KG	99
Carbon Tetrachloride	13.65	117.0	226371	80.87	UG/KG	98
Vinyl Acetate	14.02	43.0	140526	238.41	UG/KG	97
Bromodichloromethane	14.35	83.0	271332	95.34	UG/KG	94
1,2-Dichloropropane	15.59	63.0	109245	103.76	UG/KG	92
cis-1,3-Dichloropropene	15.91	75.0	179712	135.86	UG/KG	87
Trichloroethene	16.46	95.0	148689	93.52	UG/KG	98
Benzene	16.94	78.0	267748	104.25	UG/KG	85
Dibromochloromethane	17.10	129.0	216693	123.64	UG/KG	93
1,1,2-Trichloroethane	17.21	97.0	101463	138.48	UG/KG	94
trans-1,3-Dichloropropene	17.21	75.0	166020	81.43	UG/KG	100
2-Chloroethyl Vinyl Ether	18.24	63.0	57529	155.00	UG/KG	100
Bromoform	19.25	173.0	198179	166.51	UG/KG	98
CHLOROBENZENE-d5	24.35	117.0	141737	50.00	UG/KG	93
-Methyl-2-Pentanone	20.18	43.0	79845	178.01	UG/KG	93
2-Hexanone	21.70	43.0	51111	159.28	UG/KG	81
Tetrachloroethene	22.08	164.0	143411	96.45	UG/KG	95
1,1,2,2,-Tetrachloroethane	22.08	83.0	164753	175.41	UG/KG	92
TOLUENE-d8	23.10	98.0	157217	47.50	UG/KG	94
Toluene	23.32	92.0	185181	99.70	UG/KG	92
Chlorobenzene	24.45	112.0	253476	99.46	UG/KG	94
Ethyl Benzene	26.18	106.0	115475	96.53	UG/KG	92

001165

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	4-BROMOFLUOROBENZENE	28.13	95.0	118123	44.47	UG/KG	100
45)	Styrene	29.16	104.0	229004	100.64	UG/KG	90
46)	Total Xylenes	30.02	106.0	142251	96.99	UG/KG	96
47)	1,3-Dichlorobenzene	32.72	146.0	290860	100.46	UG/KG	91
48)	1,2-Dichlorobenzene	33.43	146.0	300184M	108.92	UG/KG	100
49)	1,4-Dichlorobenzene	33.86	146.0	295444M	104.67	UG/KG	92

* Compound is ISTD



Data File: >CA179::E4 Quant Output File: ^CA179::SS
Name: VSTD 100
Misc: 100 FPB STD

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

Operator ID: USER8
Quant Time: 940513 13:36
Injected at: 940513 12:58

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940513 14:22
Output File: ^CA180::SS Injected at: 940513 13:43
Data File: >CA180::E4 Dilution Factor: 1.00000
Name: VSTD 150
Misc: 150 PPB STD

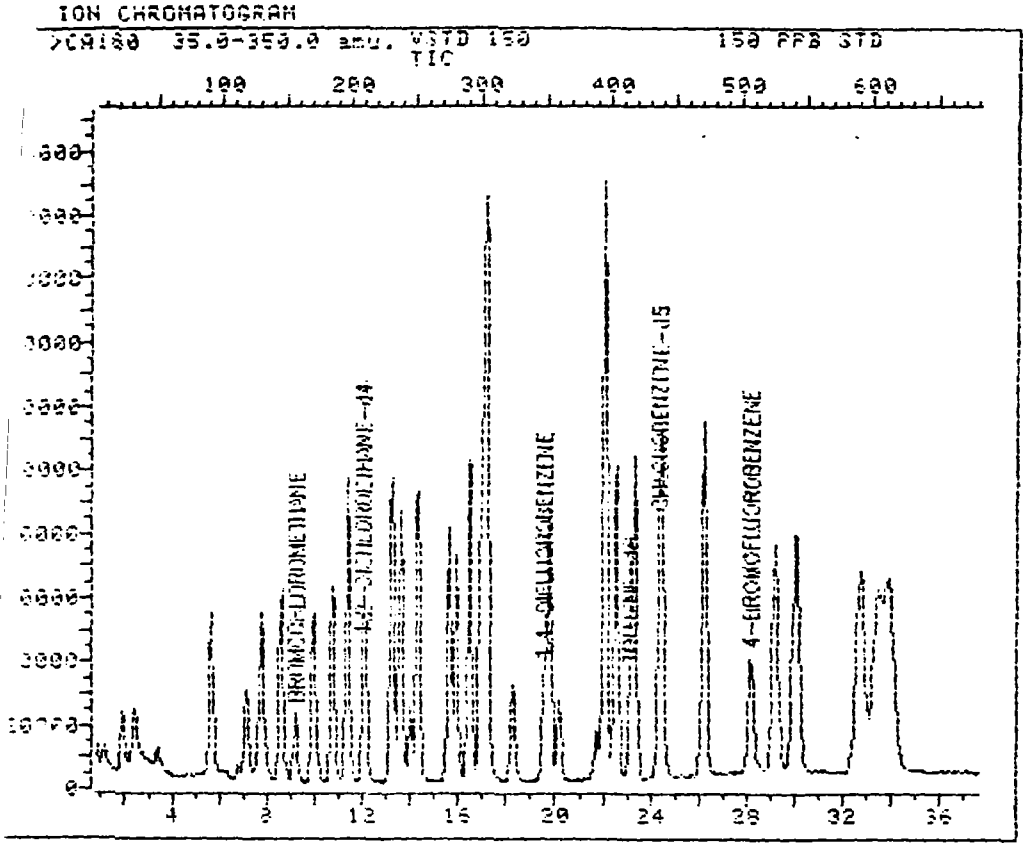
ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.22	128.0	37100	50.00	UG/KG	100
2)	Chloromethane	1.11	50.0	43159	101.63	UG/KG	90
3)	Bromomethane	1.87	94.0	58658	84.94	UG/KG	99
4)	Vinyl Chloride	2.41	62.0	96215	120.95	UG/KG	93
5)	Dichlorodifluoromethane	2.35	85.0	120425	70.78	UG/KG	93
6)	Chloroethane	3.38	64.0	63139	117.56	UG/KG	90
7)	Methylene Chloride	5.65	84.0	144938	138.77	UG/KG	100
8)	Acetone	6.79	43.0	37130	211.44	UG/KG	80
9)	Acrolein	6.79	56.0	7817	198.35	UG/KG	98
10)	Carbon Disulfide	7.11	76.0	286071	140.97	UG/KG	98
	Acrylonitrile	7.49	53.0	21171	281.22	UG/KG	96
12)	Trichlorofluoromethane	7.76	101.0	344317	99.29	UG/KG	86
13)	1,1-Dichloroethene	8.62	96.0	131161	140.34	UG/KG	85
14)	1,1-Dichloroethane	9.97	63.0	306939	125.47	UG/KG	93
15)	Tetrahydrofuran	10.14	42.0	25588	348.03	UG/KG	98
16)	1,2-Dichloroethene	10.73	96.0	146229	141.29	UG/KG	98
17)	Chloroform	11.38	83.0	424007	125.33	UG/KG	99
18)	1,2-DICHLOROETHANE-d4	12.03	65.0	87781	43.81	UG/KG	94
19)	1,2-Dichloroethane	12.13	62.0	284135	132.24	UG/KG	99
20)	2-Butanone	12.13	43.0	48125	209.37	UG/KG	81
21)	*1,4-DIFLUOROBENZENE	19.54	114.0	150551	50.00	UG/KG	90
22)	1,1,1-Trichloroethane	13.27	97.0	368272	130.07	UG/KG	98
23)	Carbon Tetrachloride	13.65	117.0	329625	135.02	UG/KG	98
24)	Vinyl Acetate	14.02	43.0	201729	392.40	UG/KG	97
25)	Bromodichloromethane	14.35	83.0	387818	156.24	UG/KG	94
26)	1,2-Dichloropropane	15.59	63.0	157117	171.10	UG/KG	92
27)	cis-1,3-Dichloropropene	15.92	75.0	256889	222.67	UG/KG	86
28)	Trichloroethene	16.51	95.0	209794	151.30	UG/KG	98
29)	Benzene	16.94	78.0	378032	168.76	UG/KG	86
30)	Dibromochloromethane	17.10	129.0	306116	200.27	UG/KG	93
31)	1,1,2-Trichloroethane	17.21	97.0	140611	220.03	UG/KG	96
32)	trans-1,3-Dichloropropene	17.21	75.0	233549	131.34	UG/KG	100
33)	2-Chloroethyl Vinyl Ether	18.24	63.0	81176	250.76	UG/KG	100
34)	Bromoform	19.75	173.0	276505	266.37	UG/KG	99
35)	*CHLOROBENZENE-d5	24.35	117.0	123392	50.00	UG/KG	92
[illegible])	4-Methyl-2-Pentanone	20.18	43.0	112732	288.69	UG/KG	92
[illegible])	2-Hexanone	21.70	43.0	73223	262.11	UG/KG	80
38)	Tetrachloroethene	22.08	164.0	200226	154.68	UG/KG	96
39)	1,1,2,2,-Tetrachloroethane	22.08	83.0	223390	273.20	UG/KG	90
40)	TOLUENE-d8	23.10	98.0	135652	47.08	UG/KG	94
41)	Toluene	23.32	92.0	265865	164.42	UG/KG	93
42)	Chlorobenzene	24.45	112.0	357190	160.99	UG/KG	96
43)	Ethyl Benzene	26.18	106.0	165368	158.80	UG/KG	92

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	4-BROMOFLUOROBENZENE	28.13	95.0	105030	45.42	UG/KG	100
45)	Styrene	29.15	104.0	328205	165.68	UG/KG	92
46)	Total Xylenes	30.02	106.0	202858	158.88	UG/KG	94
47)	1,3-Dichlorobenzene	32.72	146.0	401676	159.36	UG/KG	90
48)	1,2-Dichlorobenzene	33.48	146.0	375107M	156.34	UG/KG	100
49)	1,4-Dichlorobenzene	33.86	146.0	403952M	164.39	UG/KG	91

* Compound is ISTD

ION CHROMATOGRAM



Data File: >CA180::E4 Quant Output File: ^CA180::SS
Name: VSTD 150
Misc: 150 PPB STD

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

Operator ID: USER8
Quant Time: 940513 14:22
Injected at: 940513 13:43

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940513 15:07
Output File: ^CA181::SS Injected at: 940513 14:29
Data File: >CA181::E2 Dilution Factor: 1.00000
Name: VSTD 200
Misc: 200 PPB STD

ID File: IDSV04::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.21	128.0	38575	50.00	UG/KG	100
2)	Chloromethane	1.11	50.0	56433	127.80	UG/KG	88
3)	Bromomethane	1.87	94.0	75949	105.78	UG/KG	97
4)	Vinyl Chloride	2.41	62.0	133574	161.49	UG/KG	99
5)	Dichlorodifluoromethane	2.35	85.0	156463	88.45	UG/KG	94
6)	Chloroethane	3.38	64.0	78557	140.68	UG/KG	91
7)	Methylene Chloride	5.70	84.0	189512	174.51	UG/KG	100
8)	Acetone	6.89	43.0	51326	281.10	UG/KG	79
9)	Acrolein	6.84	56.0	11806	288.12	UG/KG	98
)	Carbon Disulfide	7.11	76.0	382689	181.38	UG/KG	98
11)	Acrylonitrile	7.54	53.0	29702	379.45	UG/KG	91
12)	Trichlorofluoromethane	7.75	101.0	450904	125.05	UG/KG	87
13)	1,1-Dichloroethene	8.57	96.0	174610	179.68	UG/KG	89
14)	1,1-Dichloroethane	9.97	63.0	407910	160.37	UG/KG	96
15)	Tetrahydrofuran	10.13	42.0	41930	548.50	UG/KG	97
16)	1,2-Dichloroethene	10.73	96.0	191567	178.01	UG/KG	96
17)	Chloroform	11.37	83.0	552574	157.08	UG/KG	96
18)	1,2-DICHLOROETHANE-d4	12.02	65.0	93863	45.06	UG/KG	90
19)	1,2-Dichloroethane	12.08	62.0	395776	177.16	UG/KG	98
20)	2-Butanone	12.13	43.0	75970	317.87	UG/KG	80
21)	*1,4-DIFLUOROBENZENE	19.53	114.0	155889	50.00	UG/KG	88
22)	1,1,1-Trichloroethane	13.21	97.0	490316	167.24	UG/KG	99
23)	Carbon Tetrachloride	13.59	117.0	434573	171.91	UG/KG	98
24)	Vinyl Acetate	13.97	43.0	292413	549.32	UG/KG	97
25)	Bromodichloromethane	14.29	83.0	527923	205.40	UG/KG	92
26)	1,2-Dichloropropane	15.59	63.0	209648	220.49	UG/KG	94
27)	cis-1,3-Dichloropropene	15.91	75.0	350395	293.32	UG/KG	87
28)	Trichloroethene	16.45	95.0	278500	193.97	UG/KG	98
29)	Benzene	16.94	78.0	499833	215.49	UG/KG	87
30)	Dibromochloromethane	17.10	129.0	428707	270.87	UG/KG	92
31)	1,1,2-Trichloroethane	17.21	97.0	196283	296.63	UG/KG	98
32)	trans-1,3-Dichloropropene	17.21	75.0	318588	173.03	UG/KG	100
33)	2-Chloroethyl Vinyl Ether	18.24	63.0	117080	349.29	UG/KG	100
34)	Bromoform	19.75	173.0	395750	368.20	UG/KG	98
35)	*CHLOROBENZENE-d5	24.34	117.0	125729	50.00	UG/KG	97
36)	4-Methyl-2-Pentanone	20.18	43.0	172008	432.30	UG/KG	92
37)	2-Hexanone	21.69	43.0	112724	396.01	UG/KG	79
38)	Tetrachloroethene	22.07	164.0	262431	198.96	UG/KG	95
39)	1,1,2,2,-Tetrachloroethane	22.07	83.0	322677	387.29	UG/KG	91
40)	TOLUENE-d8	23.10	98.0	140254	47.77	UG/KG	97
41)	Toluene	23.32	92.0	345993	210.00	UG/KG	94
42)	Chlorobenzene	24.45	112.0	475025	210.12	UG/KG	96
43)	Ethyl Benzene	26.18	106.0	218165	205.60	UG/KG	92

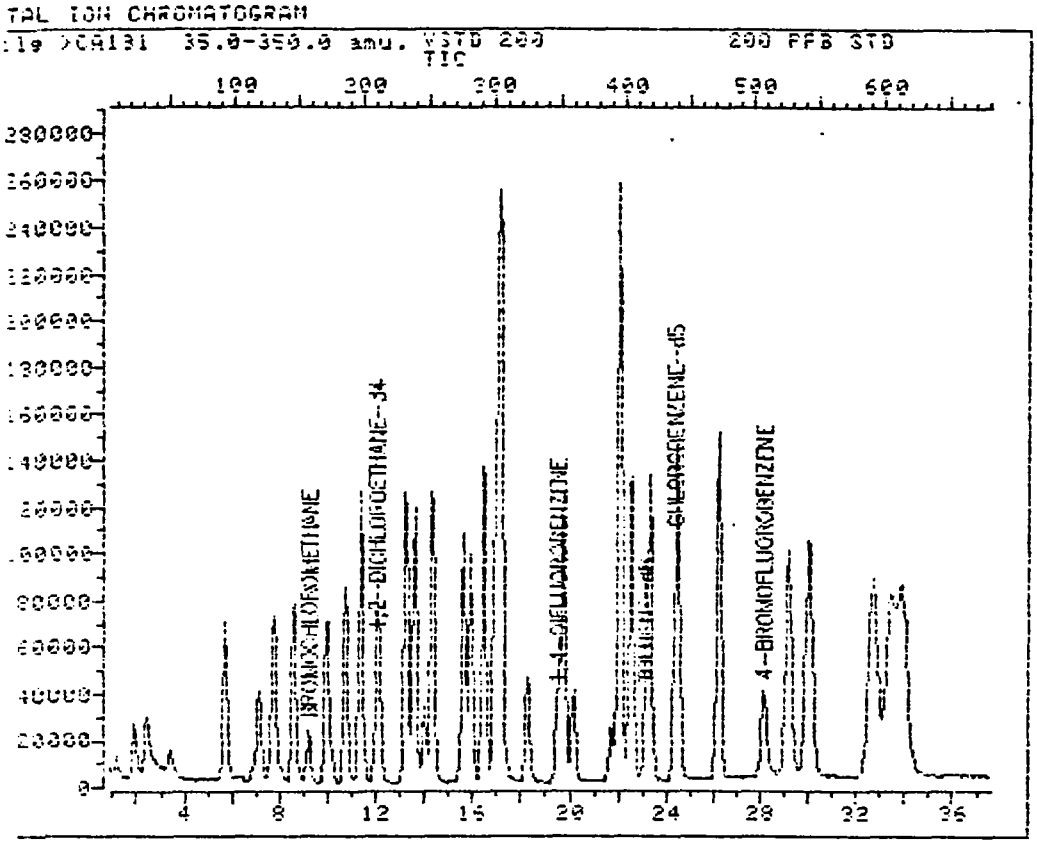
0011.75

Compound	R.T.	Q ion	Area	Conc	Units	q
--BROMOFLUOROBENZENE	28.12	95.0	109245	46.36	UG/KG	100
styrene	29.15	104.0	448818	222.35	UG/KG	89
otal Xylenes	30.02	106.0	273619	210.31	UG/KG	94
,3-Dichlorobenzene	32.72	146.0	533059	207.55	UG/KG	92
,2-Dichlorobenzene	33.47	146.0	505805M	206.90	UG/KG	100
,4-Dichlorobenzene	33.85	146.0	528766M	211.18	UG/KG	92

pound is ISTD

TAL ION CHROMATOGRAM

:19 >CA131 35.0-350.0 amu. VSTD 200 TIC 200 PPB STD



Data File: >CA181::E2 Quant Output File: ^CA181::SS
Name: VSTD 200
Misc: 200 PPB STD

Id File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

Operator ID: USER8
Quant Time: 940513 15:07
Injected at: 940513 14:29

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940513 16:13
Output File: ^CA182::SS Injected at: 940513 15:34
Data File: >CA182::E2 Dilution Factor: 1.00000
Name: USTD 50
Misc: 50 PPB STD

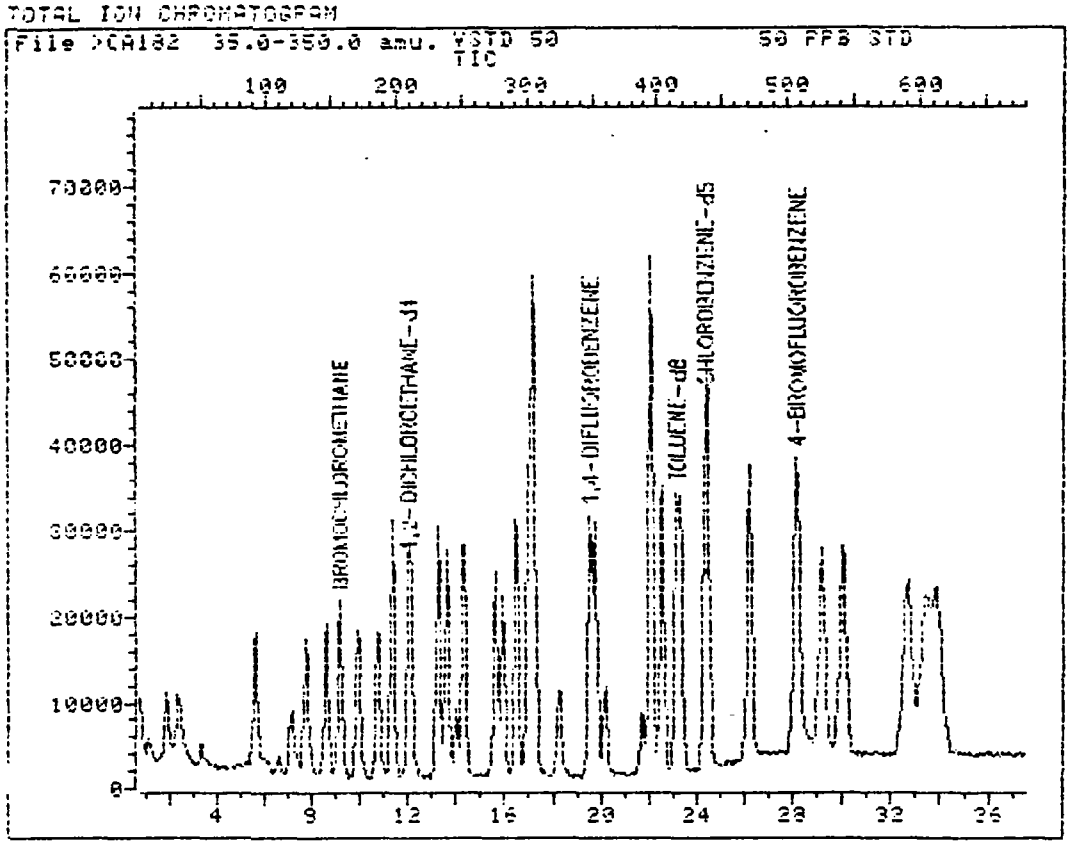
ID File: IDSVOA::DS
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.16	128.0	35159	50.00	UG/KG	100
2)	Chloromethane	1.11	50.0	14311	35.56	UG/KG	89
3)	Bromomethane	1.87	94.0	21330	32.59	UG/KG	94
4)	Vinyl Chloride	2.41	62.0	29885	39.64	UG/KG	97
5)	Dichlorodifluoromethane	2.35	85.0	40931	25.39	UG/KG	99
6)	Chloroethane	3.32	64.0	19889	39.08	UG/KG	92
7)	Methylene Chloride	5.59	84.0	44705	45.17	UG/KG	100
8)	Acetone	6.62	43.0	13375	80.37	UG/KG	82
9)	Acrolein	6.73	56.0	3214	86.06	UG/KG	78
)	Carbon Disulfide	7.16	76.0	84382	43.88	UG/KG	98
)	Acrylonitrile	7.37	53.0	7514	105.32	UG/KG	99
12)	Trichlorofluoromethane	7.75	101.0	104300	31.74	UG/KG	87
13)	1,1-Dichloroethene	8.62	96.0	38500	43.47	UG/KG	84
14)	1,1-Dichloroethane	9.91	63.0	92280	39.80	UG/KG	94
15)	Tetrahydrofuran	10.08	42.0	10586	151.93	UG/KG	98
16)	1,2-Dichloroethene	10.72	96.0	43382	44.23	UG/KG	98
17)	Chloroform	11.37	83.0	139023	43.36	UG/KG	98
18)	1,2-DICHLOROETHANE-d4	12.02	65.0	79300	41.77	UG/KG	96
19)	1,2-Dichloroethane	12.13	62.0	89800	44.10	UG/KG	99
20)	2-Butanone	12.13	43.0	20635	94.73	UG/KG	81
21)	*1,4-DIFLUOROBENZENE	19.53	114.0	136135	50.00	UG/KG	88
22)	1,1,1-Trichloroethane	13.26	97.0	111443	43.53	UG/KG	97
23)	Carbon Tetrachloride	13.64	117.0	97778	44.29	UG/KG	99
24)	Vinyl Acetate	14.02	43.0	65664	141.26	UG/KG	97
25)	Bromodichloromethane	14.29	83.0	115364	51.40	UG/KG	94
26)	1,2-Dichloropropane	15.58	63.0	46702	56.24	UG/KG	93
27)	cis-1,3-Dichloropropene	15.91	75.0	77851	74.63	UG/KG	89
28)	Trichloroethene	16.45	95.0	61433	49.00	UG/KG	96
29)	Benzene	16.93	78.0	111206	54.90	UG/KG	89
30)	Dibromochloromethane	17.10	129.0	94935	68.69	UG/KG	92
31)	1,1,2-Trichloroethane	17.20	97.0	46525	80.51	UG/KG	95
32)	trans-1,3-Dichloropropene	17.20	75.0	74598	46.39	UG/KG	100
33)	2-Chloroethyl Vinyl Ether	18.23	63.0	27024	92.32	UG/KG	100
34)	Bromoform	19.74	173.0	87317	93.03	UG/KG	98
35)	*CHLOROBENZENE-d5	24.33	117.0	111632	50.00	UG/KG	94
)	4-Methyl-2-Pentanone	20.18	43.0	46592	131.89	UG/KG	96
37)	2-Hexanone	21.74	43.0	36109	142.87	UG/KG	94
38)	Tetrachloroethene	22.07	164.0	58257	49.75	UG/KG	96
39)	1,1,2,2,-Tetrachloroethane	22.07	83.0	78071	105.54	UG/KG	93
40)	TOLUENE-d8	23.15	98.0	124070	47.60	UG/KG	92
41)	Toluene	23.31	92.0	76952	52.60	UG/KG	91
42)	Chlorobenzene	24.44	112.0	106010	52.81	UG/KG	93
43)	Ethyl Benzene	26.17	106.0	48475	51.45	UG/KG	90

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	4-BROMOFLUOROBENZENE	28.12	95.0	97432	46.57	UG/KG	100
45)	Styrene	29.14	104.0	103498	57.75	UG/KG	90
46)	Total Xylenes	30.01	106.0	63095	54.62	UG/KG	95
47)	1,3-Dichlorobenzene	32.66	146.0	128482	56.34	UG/KG	93
48)	1,2-Dichlorobenzene	33.41	146.0	118071M	54.40	UG/KG	100
49)	1,4-Dichlorobenzene	33.74	146.0	129049M	58.05	UG/KG	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CA182::E2 Quant Output File: ^CA182::SS
Name: VSTD 50
Misc: 50 PPB STD

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940511 14:53

Operator ID: USER8
Quant Time: 940513 16:13
Injected at: 940513 15:34

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940518 11:52
Output File: ^VA276::SS Injected at: 940518 11:13
Data File: >VA276::E7 Dilution Factor: 1.00000
Name: VSTD 50
Misc: 50 PPB STD

ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940517 12:56

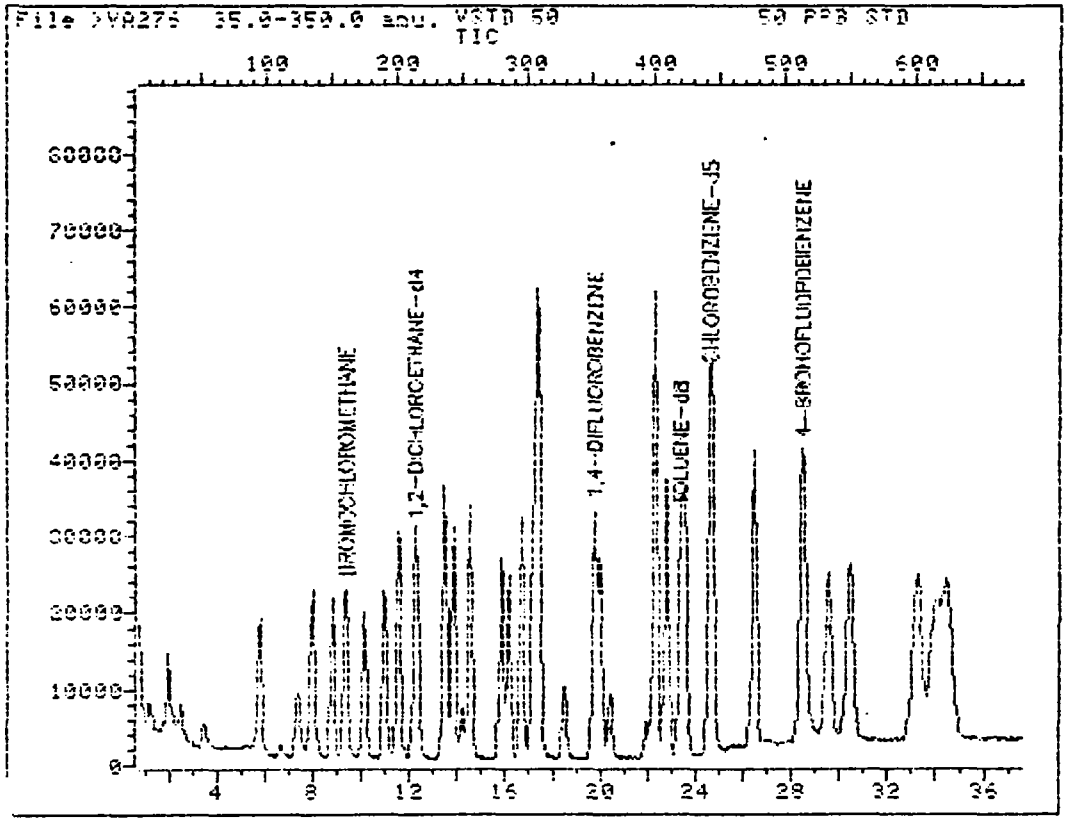
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.32	128.0	39988	50.00	UG/KG	100
2)	Chloromethane	1.16	50.0	16647	61.70	UG/KG	88
3)	Bromomethane	1.97	94.0	26774	68.60	UG/KG	97
4)	Vinyl Chloride	2.51	62.0	31928	55.01	UG/KG	96
5)	Dichlorodifluoromethane	2.46	85.0	12001	49.86	UG/KG	85
6)	Chloroethane	3.48	64.0	21533	60.90	UG/KG	85
7)	Methylene Chloride	5.81	84.0	46020	56.57	UG/KG	100
8)	Acetone	6.67	43.0	11969	35.82	UG/KG	83
9)	Acrolein	6.78	56.0	1713	46.32	UG/KG	98
10)	Carbon Disulfide	7.37	76.0	89621	71.80	UG/KG	99
11)	Acrylonitrile	7.48	53.0	5381	49.26	UG/KG	85
)	Trichlorofluoromethane	7.97	101.0	137072	74.56	UG/KG	88
)	1,1-Dichloroethene	8.83	96.0	43060	62.32	UG/KG	82
14)	1,1-Dichloroethane	10.13	63.0	100890	56.69	UG/KG	95
15)	Tetrahydrofuran	10.23	42.0	8861	49.04	UG/KG	96
16)	1,2-Dichloroethene	10.94	96.0	54100	67.99	UG/KG	97
17)	Chloroform	11.53	83.0	135889	54.23	UG/KG	99
18)	1,2-DICHLOROETHANE-d4	12.23	65.0	88879	49.21	UG/KG	92
19)	1,2-Dichloroethane	12.29	62.0	111970	58.90	UG/KG	99
20)	2-Butanone	12.29	43.0	14621	45.95	UG/KG	77
21)	*1,4-DIFLUOROBENZENE	19.74	114.0	148402	50.00	UG/KG	88
22)	1,1,1-Trichloroethane	13.47	97.0	138860	61.58	UG/KG	98
23)	Carbon Tetrachloride	13.85	117.0	110800	55.10	UG/KG	98
24)	Vinyl Acetate	14.23	43.0	60427	51.24	UG/KG	97
25)	Bromodichloromethane	14.50	83.0	134437	57.57	UG/KG	91
26)	1,2-Dichloropropane	15.80	63.0	48450	54.16	UG/KG	94
27)	cis-1,3-Dichloropropene	16.12	75.0	85612	74.63	UG/KG	87
28)	Trichloroethene	16.66	95.0	65795	53.89	UG/KG	96
29)	Benzene	17.15	78.0	129158	61.17	UG/KG	88
30)	Dibromochloromethane	17.31	129.0	99129	53.21	UG/KG	93
31)	1,1,2-Trichloroethane	17.42	97.0	45066	52.96	UG/KG	98
32)	trans-1,3-Dichloropropene	17.42	75.0	80438	41.27	UG/KG	100
33)	2-Chloroethyl Vinyl Ether	18.50	63.0	25083	50.31	UG/KG	100
34)	Bromoform	19.96	173.0	78800	46.50	UG/KG	98
35)	*CHLOROBENZENE-d5	24.60	117.0	120737	50.00	UG/KG	96
36)	4-Methyl-2-Pentanone	20.39	43.0	38018	48.39	UG/KG	95
37)	2-Hexanone	21.95	43.0	23161	46.56	UG/KG	89
)	Tetrachloroethene	22.28	164.0	61512	53.25	UG/KG	94
39)	1,1,2,2,-Tetrachloroethane	22.28	83.0	78925	54.04	UG/KG	93
40)	TOLUENE-d8	23.36	98.0	129040	49.50	UG/KG	94
41)	Toluene	23.57	92.0	87400	58.50	UG/KG	92
42)	Chlorobenzene	24.71	112.0	108741	52.99	UG/KG	96
43)	Ethyl Benzene	26.44	106.0	54984	57.31	UG/KG	92

001181

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	4-BROMOFLUOROBENZENE	28.44	95.0	105214	49.65	UG/KG	100
45)	Styrene	29.52	104.0	100846	52.78	UG/KG	87
46)	Total Xylenes	30.44	106.0	63130	51.39	UG/KG	94
47)	1,3-Dichlorobenzene	33.19	146.0	142904	57.13	UG/KG	90
48)	1,2-Dichlorobenzene	33.95	146.0	128935M	55.05	UG/KG	100
49)	1,4-Dichlorobenzene	34.38	146.0	133921M	51.18	UG/KG	91

* Compound is ISTD

OTAL ION CHROMATOGRAM



Data File: >VA276::E7 Quant Output File: ^VA276::SS
Name: VSTD 50
Misc: 50 PPB STD

Id File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940517 12:56

Operator ID: USER8
Quant Time: 940518 11:52
Injected at: 940518 11:13

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940519 10:21
Output File: ^VA277::S5 Injected at: 940519 09:42
Data File: >VA277::E7 Dilution Factor: 1.00000
Name: VSTD 50
Misc: 50 PPB STD

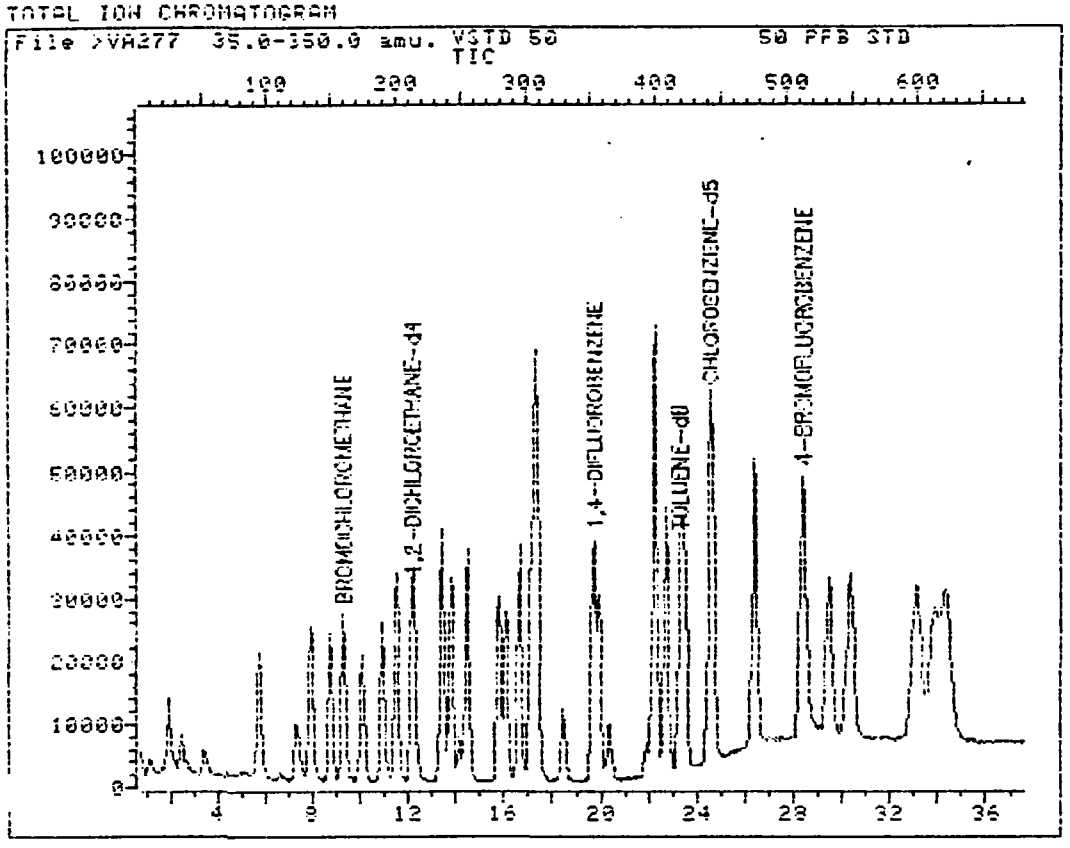
ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940518 12:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.32	128.0	46068	50.00	UG/KG	100
2)	Chloromethane	1.16	50.0	17601	45.89	UG/KG	91
3)	Bromomethane	1.92	94.0	30972	50.21	UG/KG	99
4)	Vinyl Chloride	2.51	62.0	36630	49.79	UG/KG	99
5)	Dichlorodifluoromethane	2.40	85.0	12950	46.83	UG/KG	93
6)	Chloroethane	3.43	64.0	24758	49.90	UG/KG	92
7)	Methylene Chloride	5.75	84.0	51505	48.57	UG/KG	100
8)	Acetone	6.67	43.0	13967	50.65	UG/KG	83
9)	Acrolein	6.72	56.0	2067	52.37	UG/KG	92
[illegible])	Carbon Disulfide	7.32	76.0	97567	47.25	UG/KG	96
[illegible])	Acrylonitrile	7.48	53.0	5488	44.26	UG/KG	81
12)	Trichlorofluoromethane	7.91	101.0	148443	47.00	UG/KG	89
13)	1,1-Dichloroethene	8.78	96.0	47090	47.46	UG/KG	84
14)	1,1-Dichloroethane	10.07	63.0	111294	47.88	UG/KG	97
15)	Tetrahydrofuran	10.18	42.0	8466	41.63	UG/KG	91
16)	1,2-Dichloroethene	10.94	96.0	58759	47.14	UG/KG	96
17)	Chloroform	11.53	83.0	149131	47.63	UG/KG	97
18)	1,2-DICHLOROETHANE-d4	12.18	65.0	101850	49.77	UG/KG	93
19)	1,2-Dichloroethane	12.29	62.0	122203	47.37	UG/KG	98
20)	2-Butanone	12.29	43.0	14486	43.00	UG/KG	81
21)	*1,4-DIFLUOROBENZENE	19.74	114.0	173975	50.00	UG/KG	94
22)	1,1,1-Trichloroethane	13.42	97.0	153310	47.09	UG/KG	98
23)	Carbon Tetrachloride	13.80	117.0	120250	46.29	UG/KG	97
24)	Vinyl Acetate	14.18	43.0	63351	44.71	UG/KG	97
25)	Bromodichloromethane	14.50	83.0	149513	47.43	UG/KG	93
26)	1,2-Dichloropropane	15.80	63.0	54316	47.81	UG/KG	93
27)	cis-1,3-Dichloropropene	16.07	75.0	97057	61.89	UG/KG	90
28)	Trichloroethene	16.66	95.0	73441	47.61	UG/KG	98
29)	Benzene	17.15	78.0	144501	47.72	UG/KG	90
30)	Dibromochloromethane	17.26	129.0	111581	48.01	UG/KG	94
31)	1,1,2-Trichloroethane	17.36	97.0	51864	49.08	UG/KG	96
32)	trans-1,3-Dichloropropene	17.36	75.0	90915	34.71	UG/KG	100
33)	2-Chloroethyl Vinyl Ether	18.44	63.0	29894	50.83	UG/KG	100
34)	Bromoform	19.96	173.0	88846	48.09	UG/KG	98
35)	*CHLOROBENZENE-d5	24.55	117.0	143795	50.00	UG/KG	96
[illegible])	4-Methyl-2-Pentanone	20.39	43.0	40380	44.59	UG/KG	91
[illegible])	2-Hexanone	21.90	43.0	26169	47.43	UG/KG	77
38)	Tetrachloroethene	22.28	164.0	70692	48.25	UG/KG	94
39)	1,1,2,2,-Tetrachloroethane	22.28	83.0	89829	47.78	UG/KG	91
40)	TOLUENE-d8	23.31	98.0	154542	50.28	UG/KG	92
41)	Toluene	23.52	92.0	98503	47.32	UG/KG	92
42)	Chlorobenzene	24.66	112.0	124039	47.89	UG/KG	99
43)	Ethyl Benzene	26.39	106.0	64971	49.61	UG/KG	91

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	4-BROMOFLUOROBENZENE	28.39	95.0	119262	47.59	UG/KG	100
45)	Styrene	29.47	104.0	113651	47.31	UG/KG	89
46)	Total Xylenes	30.33	106.0	70987	47.21	UG/KG	93
47)	1,3-Dichlorobenzene	33.15	146.0	159353	46.81	UG/KG	92
48)	1,2-Dichlorobenzene	33.85	146.0	138557M	45.12	UG/KG	100
49)	1,4-Dichlorobenzene	34.28	146.0	163555M	51.27	UG/KG	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >VA277::E7 Quant Output File: ^VA277::SS
Name: VSTD 50
Misc: 50 PPB STD

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940518 12:02

Operator ID: USER8
Quant Time: 940519 10:21
Injected at: 940519 09:42

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940524 11:26
Output File: ^VA279::SS Injected at: 940524 10:47
Data File: >VA279::E4 Dilution Factor: 1.00000
Name: VSTD 50
Misc: 50 PPB STD

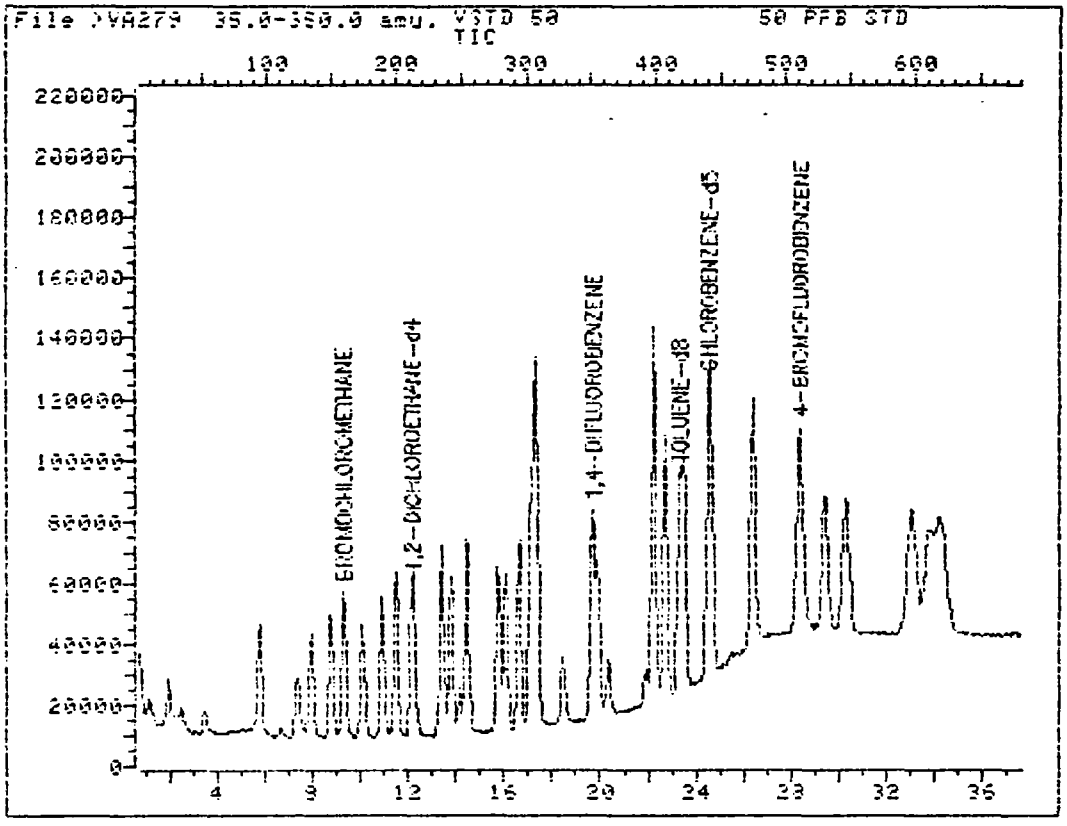
ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940519 10:41

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.32	128.0	80386	50.00	UG/KG	100
2)	Chloromethane	1.16	50.0	34687	56.47	UG/KG	90
3)	Bromomethane	1.97	94.0	47029	43.51	UG/KG	95
4)	Vinyl Chloride	2.51	62.0	58398	45.68	UG/KG	96
5)	Dichlorodifluoromethane	2.46	85.0	14550	32.19	UG/KG	96
6)	Chloroethane	3.48	64.0	43859	50.76	UG/KG	96
7)	Methylene Chloride	5.81	84.0	95807	53.30	UG/KG	100
8)	Acetone	6.73	43.0	23068	47.33	UG/KG	84
9)	Acrolein	6.83	56.0	3153	43.71	UG/KG	87
10)	Carbon Disulfide	7.37	76.0	205508	60.36	UG/KG	98
)	Acrylonitrile	7.48	53.0	18501	96.60	UG/KG	93
)	Trichlorofluoromethane	7.97	101.0	200117	38.63	UG/KG	86
13)	1,1-Dichloroethene	8.78	96.0	89107	54.22	UG/KG	91
14)	1,1-Dichloroethane	10.08	63.0	205841	53.00	UG/KG	96
15)	Tetrahydrofuran	10.24	42.0	26445	89.86	UG/KG	88
16)	1,2-Dichloroethene	10.94	96.0	116819	56.97	UG/KG	99
17)	Chloroform	11.53	83.0	243411	46.77	UG/KG	99
18)	1,2-DICHLOROETHANE-d4	12.18	65.0	145173	40.84	UG/KG	96
19)	1,2-Dichloroethane	12.29	62.0	175647	41.19	UG/KG	97
20)	2-Butanone	12.29	43.0	29292M	57.94	UG/KG	75
21)	*1,4-DIFLUOROBENZENE	19.70	114.0	313199	50.00	UG/KG	91
22)	1,1,1-Trichloroethane	13.43	97.0	223471	40.48	UG/KG	99
23)	Carbon Tetrachloride	13.80	117.0	177510	41.00	UG/KG	97
24)	Vinyl Acetate	14.18	43.0	143146	62.76	UG/KG	95
25)	Bromodichloromethane	14.45	83.0	255201	47.41	UG/KG	95
26)	1,2-Dichloropropane	15.75	63.0	117963	60.32	UG/KG	93
27)	cis-1,3-Dichloropropene	16.07	75.0	185709	68.02	UG/KG	90
28)	Trichloroethene	16.67	95.0	134029	50.69	UG/KG	99
29)	Benzene	17.10	78.0	296584	57.01	UG/KG	81
30)	Dibromochloromethane	17.26	129.0	188793	46.99	UG/KG	92
31)	1,1,2-Trichloroethane	17.37	97.0	98239	52.61	UG/KG	97
32)	trans-1,3-Dichloropropene	17.37	75.0	155814	34.27	UG/KG	100
33)	2-Chloroethyl Vinyl Ether	18.40	63.0	62254	57.84	UG/KG	100
34)	Bromoform	19.91	173.0	147807	46.21	UG/KG	97
35)	*CHLOROBENZENE-d5	24.51	117.0	260771	50.00	UG/KG	90
)	4-Methyl-2-Pentanone	20.34	43.0	96806	66.10	UG/KG	99
)	2-Hexanone	21.91	43.0	65035	68.52	UG/KG	88
38)	Tetrachloroethene	22.24	164.0	113190	44.15	UG/KG	94
39)	1,1,2,2,-Tetrachloroethane	22.24	83.0	179581	55.12	UG/KG	92
40)	TOLUENE-d8	23.32	98.0	276702	49.37	UG/KG	97
41)	Toluene	23.48	92.0	194445	54.43	UG/KG	94
42)	Chlorobenzene	24.62	112.0	228932	50.89	UG/KG	95
43)	Ethyl Benzene	26.35	106.0	118064	50.10	UG/KG	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	4-BROMOFLUOROBENZENE	28.35	95.0	210869	48.75	UG/KG	100
45)	Styrene	29.43	104.0	211096	51.21	UG/KG	96
46)	Total Xylenes	30.30	106.0	131091	50.92	UG/KG	97
47)	1,3-Dichlorobenzene	33.00	146.0	262253	45.37	UG/KG	94
48)	1,2-Dichlorobenzene	33.81	146.0	246048M	48.96	UG/KG	100
49)	1,4-Dichlorobenzene	34.19	146.0	277715M	46.82	UG/KG	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >VA279::E4 Quant Output File: ^VA279::SS
Name: VSTD 50
Misc: 50 PPB STD

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940519 10:41

Operator ID: USER8
Quant Time: 940524 11:26
Injected at: 940524 10:47

QUANT REPORT

or ID: USER8 Quant Rev: 6 Quant Time: 940525 09:25
File: ^VA280::SS Injected at: 940525 08:38
ile: >VA280::E4 Dilution Factor: 1.00000
USTD 50
50 PPB STD

e: IDSVOA::D5
QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
alibration: 940524 11:50

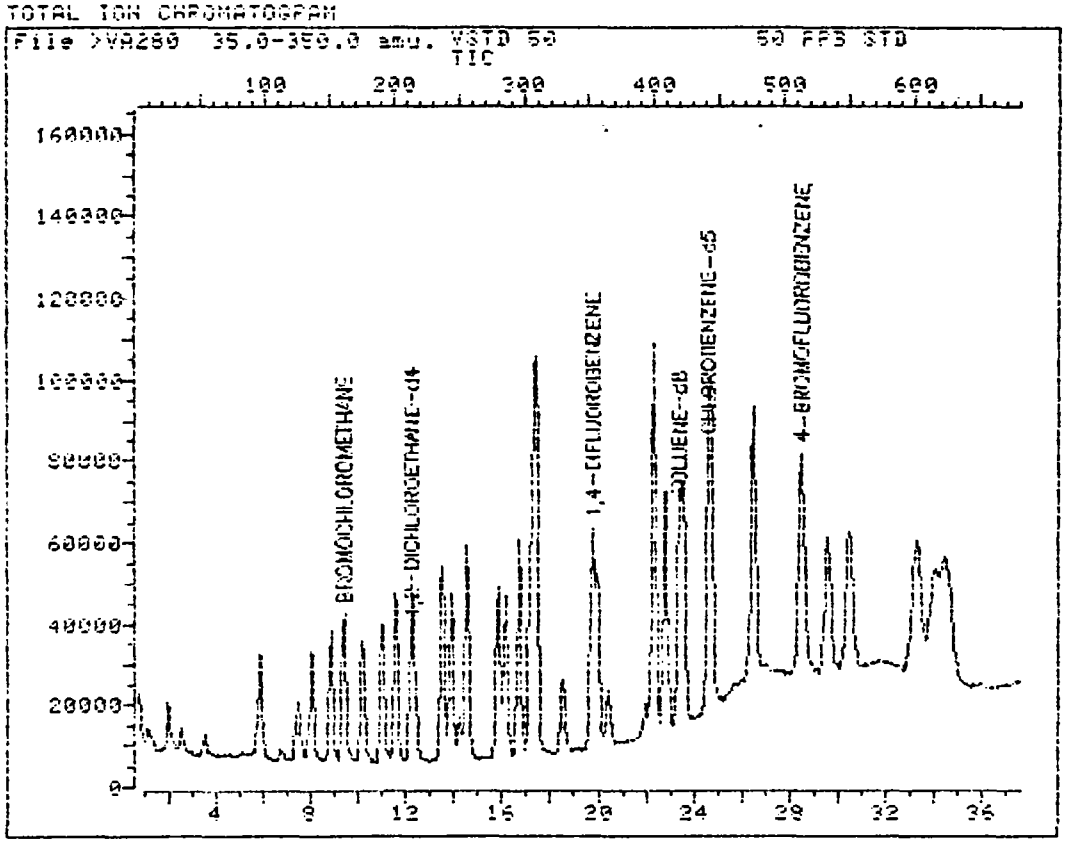
Compound	R.T.	Q ion	Area	Conc	Units	q
ROMOCHLOROMETHANE	9.43	128.0	66033	50.00	UG/KG	100
hloromethane	1.16	50.0	23794	41.74	UG/KG	92
romomethane	1.97	94.0	33583	43.47	UG/KG	99
inyl Chloride	2.57	62.0	43264	45.09	UG/KG	97
ichlorodifluoromethane	2.51	85.0	11173	46.74	UG/KG	88
hloroethane	3.54	64.0	32809	45.53	UG/KG	87
ethylene Chloride	5.86	84.0	74841	47.55	UG/KG	100
cetone	6.78	43.0	19187	50.63	UG/KG	87
crolein	6.94	56.0	2747	53.03	UG/KG	81
rbon Disulfide	7.43	76.0	156915	46.48	UG/KG	97
ylonitrile	7.59	53.0	10984	36.14	UG/KG	99
Trichlorofluoromethane	8.02	101.0	159072	48.38	UG/KG	85
1,1-Dichloroethene	8.89	96.0	70890	48.42	UG/KG	95
1,1-Dichloroethane	10.18	63.0	156086	46.16	UG/KG	96
Tetrahydrofuran	10.29	42.0	15935	36.82	UG/KG	95
1,2-Dichloroethene	10.99	96.0	91085	47.46	UG/KG	93
Chloroform	11.59	83.0	199266M	49.58	UG/KG	97
1,2-DICHLOROETHANE-d4	12.23	65.0	113178	47.43	UG/KG	98
1,2-Dichloroethane	12.34	62.0	134378	46.57	UG/KG	99
2-Butanone	12.34	43.0	24240	50.37	UG/KG	78
1,4-DIFLUOROBENZENE	19.74	114.0	270379	50.00	UG/KG	83
1,1,1-Trichloroethane	13.53	97.0	178343	46.22	UG/KG	96
Carbon Tetrachloride	13.91	117.0	144765	47.23	UG/KG	98
Vinyl Acetate	14.23	43.0	96549	39.06	UG/KG	96
Bromodichloromethane	14.56	83.0	205647	46.67	UG/KG	93
1,2-Dichloropropane	15.85	63.0	90281	44.33	UG/KG	91
cis-1,3-Dichloropropene	16.12	75.0	147517	58.89	UG/KG	87
Trichloroethene	16.72	95.0	107509	46.46	UG/KG	99
Benzene	17.20	78.0	230064	44.93	UG/KG	82
Dibromochloromethane	17.31	129.0	157262	48.25	UG/KG	93
1,1,2-Trichloroethane	17.42	97.0	81882	48.27	UG/KG	98
trans-1,3-Dichloropropene	17.42	75.0	125290	33.53	UG/KG	100
2-Chloroethyl Vinyl Ether	18.50	63.0	47331	44.03	UG/KG	100
Bromoform	19.96	173.0	123884	48.54	UG/KG	96
*CHLOROBENZENE-d5	24.56	117.0	224876	50.00	UG/KG	86
Methyl-2-Pentanone	20.39	43.0	69802	41.81	UG/KG	94
Hexanone	21.96	43.0	44253	39.45	UG/KG	86
Tetrachloroethene	22.28	164.0	95806	49.08	UG/KG	93
1,1,2,2,-Tetrachloroethane	22.28	83.0	140328	45.31	UG/KG	91
TOLUENE-d8	23.37	98.0	230218	48.24	UG/KG	95
Toluene	23.58	92.0	156315	46.61	UG/KG	94
Chlorobenzene	24.72	112.0	200230	50.71	UG/KG	93
Ethyl Benzene	26.45	106.0	101008	49.60	UG/KG	94

001190

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	4-BROMOFLUOROBENZENE	28.45	95.0	164363	45.19	UG/KG	100
45)	Styrene	29.53	104.0	171938	47.23	UG/KG	98
46)	Total Xylenes	30.45	106.0	106108	46.93	UG/KG	99
47)	1,3-Dichlorobenzene	33.21	146.0	231619	51.21	UG/KG	89
48)	1,2-Dichlorobenzene	34.02	146.0	200420M	47.23	UG/KG	100
49)	1,4-Dichlorobenzene	34.51	146.0	223803M	46.73	UG/KG	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >VA280::E4 Quant Output File: ^VA280::SS
Name: VSTD 50
Misc: 50 PPB STD

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

Operator ID: USER8
Quant Time: 940525 09:25
Injected at: 940525 08:38

QUANT REPORT

or ID: USER8 Quant Rev: 6 Quant Time: 940527 09:35
File: ^VB282::SS Injected at: 940527 08:57
ile: >VB282::E6 Dilution Factor: 1.00000
VSTD 50
50 PPB STD

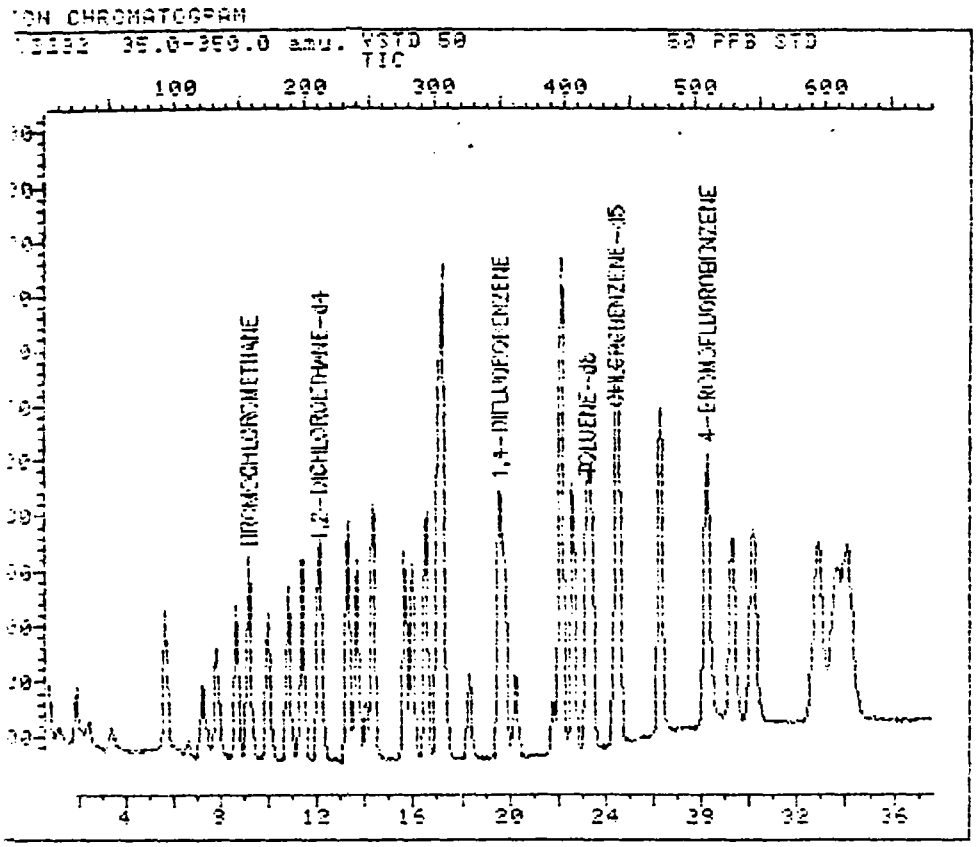
e: IDSVOA::D5
QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
alibration: 940525 10:34

Compound	R.T.	Q ion	Area	Conc	Units	q
ROMOCHLOROMETHANE	9.21	128.0	62261	50.00	UG/KG	100
hloromethane	1.16	50.0	20368	45.41	UG/KG	89
romomethane	1.92	94.0	32110	50.70	UG/KG	99
inyl Chloride	2.46	62.0	43902M	53.81	UG/KG	99
ichlorodifluoromethane	2.40	85.0	2930	13.91	UG/KG	85
hloroethane	3.38	64.0	29488	47.66	UG/KG	91
ethylene Chloride	5.64	84.0	72746	51.54	UG/KG	100
cetone	6.62	43.0	20230	55.91	UG/KG	92
cr-lein	6.67	56.0	1441	27.82	UG/KG	98
in Disulfide	7.21	76.0	142427	48.13	UG/KG	98
crylonitrile	7.37	53.0	14383	69.44	UG/KG	92
richlorofluoromethane	7.81	101.0	131098	43.70	UG/KG	85
,1-Dichloroethene	8.67	96.0	63739	47.68	UG/KG	96
,1-Dichloroethane	9.97	63.0	139290	47.32	UG/KG	94
etrahydrofuran	10.07	42.0	17100	57.13	UG/KG	97
,2-Dichloroethene	10.93	96.0	83779	48.78	UG/KG	94
hloroform	11.42	83.0	192041M	51.36	UG/KG	99
.2-DICHLOROETHANE-d4	12.07	65.0	100375	47.85	UG/KG	98
,2-Dichloroethane	12.18	62.0	120223	47.44	UG/KG	98
-Butanone	12.18	43.0	28751	62.90	UG/KG	82
,4-DIFLUOROBENZENE	19.58	114.0	229665	50.00	UG/KG	84
,1,1-Trichloroethane	13.31	97.0	157375	51.94	UG/KG	97
arbon Tetrachloride	13.69	117.0	123251	50.12	UG/KG	97
inyl Acetate	14.07	43.0	94511	57.62	UG/KG	95
romodichloromethane	14.34	83.0	188775	54.03	UG/KG	91
,2-Dichloropropane	15.64	63.0	79593	51.90	UG/KG	92
is-1,3-Dichloropropene	15.96	75.0	129732	66.26	UG/KG	86
richloroethene	16.55	95.0	94902	51.96	UG/KG	97
enzene	17.04	78.0	201084	51.45	UG/KG	84
ibromochloromethane	17.15	129.0	142203	53.23	UG/KG	94
,1,2-Trichloroethane	17.26	97.0	78782	56.64	UG/KG	93
rans-1,3-Dichloropropene	17.26	75.0	110344	37.33	UG/KG	100
-Chloroethyl Vinyl Ether	18.34	63.0	42235	52.53	UG/KG	100
romoform	19.80	173.0	113109	53.74	UG/KG	97
ROBENZENE-d5	24.39	117.0	187676	50.00	UG/KG	91
thyl-2-Pentanone	20.23	43.0	72824	62.50	UG/KG	93
-Hexanone	21.79	43.0	48821	66.09	UG/KG	81
etrachloroethene	22.12	164.0	79633	49.80	UG/KG	93
,1,2,2,-Tetrachloroethane	22.12	83.0	151993	64.89	UG/KG	90
OLUENE-d8	23.20	98.0	194955	50.73	UG/KG	97
oluene	23.41	92.0	136128	52.17	UG/KG	96
hlorobenzene	24.55	112.0	175440	52.49	UG/KG	95
thyl Benzene	26.28	106.0	87204	51.72	UG/KG	95

001193

	Compound	R.T.	Q ion	Area	Conc	Units	q
	4-BROMOFLUOROBENZENE	28.22	95.0	147453	53.75	UG/KG	100
	Styrene	29.30	104.0	166291	57.94	UG/KG	96
	Total Xylenes	30.17	106.0	101806	57.48	UG/KG	98
)	1,3-Dichlorobenzene	32.87	146.0	211053	54.59	UG/KG	86
)	1,2-Dichlorobenzene	33.63	146.0	177090M	52.94	UG/KG	100
)	1,4-Dichlorobenzene	34.06	146.0	216939M	58.07	UG/KG	90

* Compound is ISTD



ata File: >VB282::E6 Quant Output File: ^VB282::S5
ame: VSTD 50
ase: 50 PPB STD

d File: IDSVOA::D5
itle: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
ast Calibration: 940525 10:34

perator ID: USER8
uant Time: 940527 09:35
njected at: 940527 08:57

QUANT REPORT

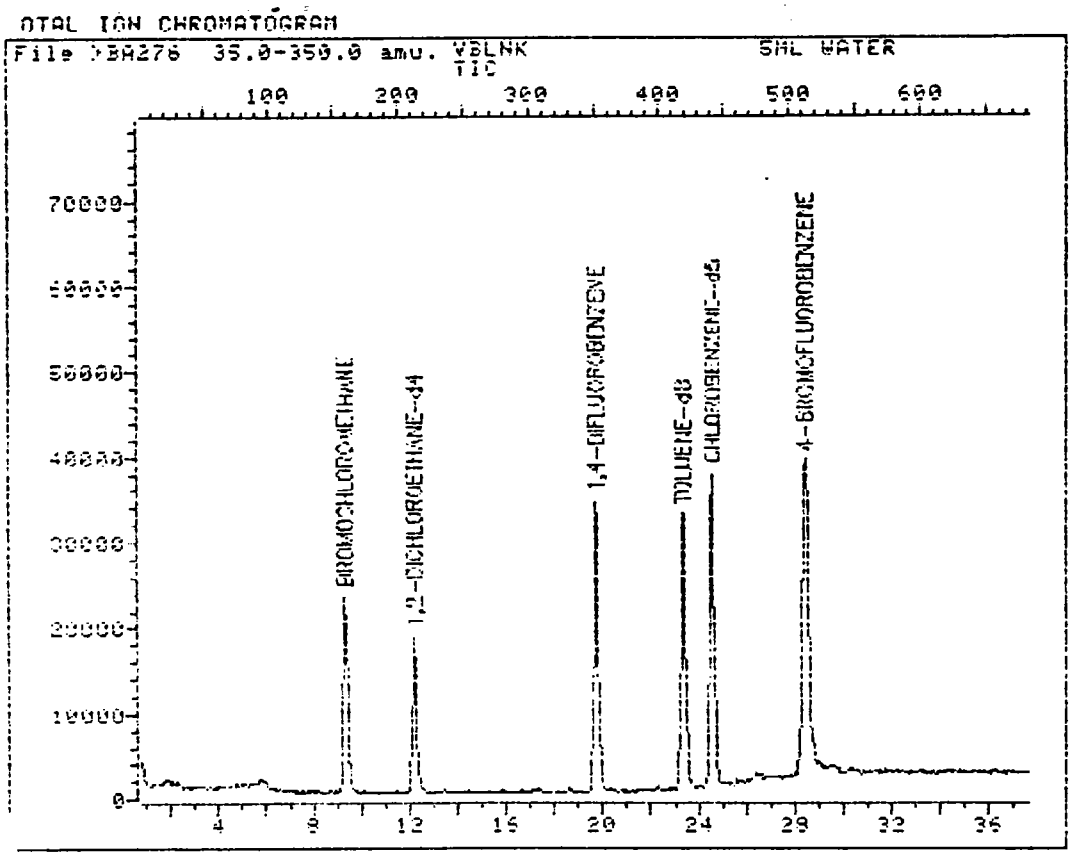
Operator ID: USER8 Quant Rev: 6 Quant Time: 940518 12:38
Output File: ^BA276::SS Injected at: 940518 11:58
Data File: >BA276::E7 Dilution Factor: 1.00000
Name: VBLNK
Misc: 5ML WATER

ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940518 12:02

OES 5/19/94

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.34	128.0	39084	50.00	UG/KG	100
18)	1,2-DICHLOROETHANE-d4	12.21	65.0	91178	52.52	UG/KG	91
21)	*1,4-DIFLUOROBENZENE	19.71	114.0	154576	50.00	UG/KG	90
35)	*CHLOROBENZENE-d5	24.57	117.0	129222	50.00	UG/KG	99
40)	TOLUENE-d8	23.33	98.0	140161	50.74	UG/KG	92
44)	4-BROMOFLUOROBENZENE	28.41	95.0	113154	50.24	UG/KG	100

* Compound is ISTD



Data File: >BA276::E7 Quant Output File: ^BA276::SS
Name: VBLNK
Misc: 5ML WATER

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940518 12:02

Operator ID: USER8
Quant Time: 940518 12:38
Injected at: 940518 11:58

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940519 11:05
Output File: ^BA277::SS Injected at: 940519 10:27
Data File: >BA277::E7 Dilution Factor: 1.00000
Name: VBLNK
Misc: 5ML WATER

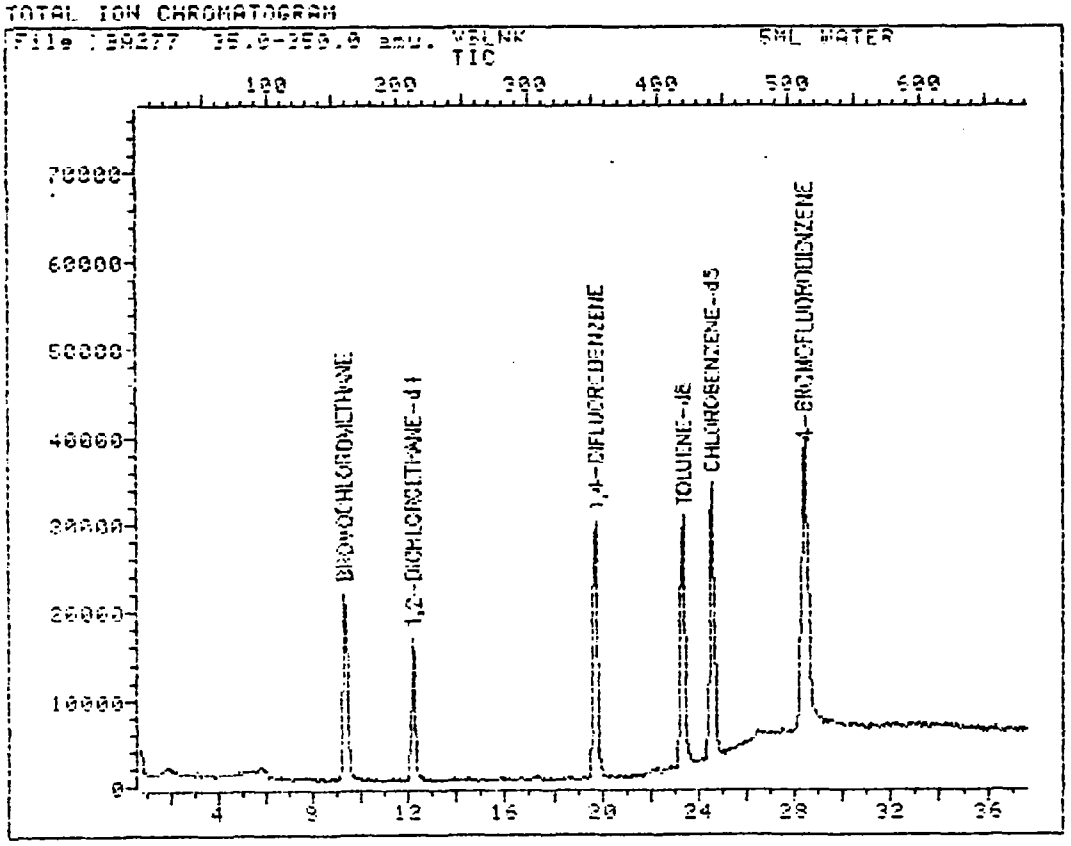
ok
SS 5/19/94

ID File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940519 10:41

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.31	128.0	35779	50.00	UG/KG	100
18)	1,2-DICHLOROETHANE-d4	12.18	65.0	79530	50.27	UG/KG	94
21)	*1,4-DIFLUOROBENZENE	19.73	114.0	134571	50.00	UG/KG	95
35)	*CHLOROBENZENE-d5	24.54	117.0	113225	50.00	UG/KG	99
40)	TOLUENE-d8	23.35	98.0	122255	50.23	UG/KG	96
44)	4-BROMOFLUOROBENZENE	28.38	95.0	98595	52.50	UG/KG	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BA277::E7 Quant Output File: ^BA277::SS
Name: VBLNK
Misc: 5ML WATER

Id File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940519 10:41

Operator ID: USER8
Quant Time: 940519 11:05
Injected at: 940519 10:27

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940524 12:11
Output File: ^BA279::SS Injected at: 940524 11:32
Data File: >BA279::E4 Dilution Factor: 1.00000
Name: VBLNK
Misc: 5ML WATER

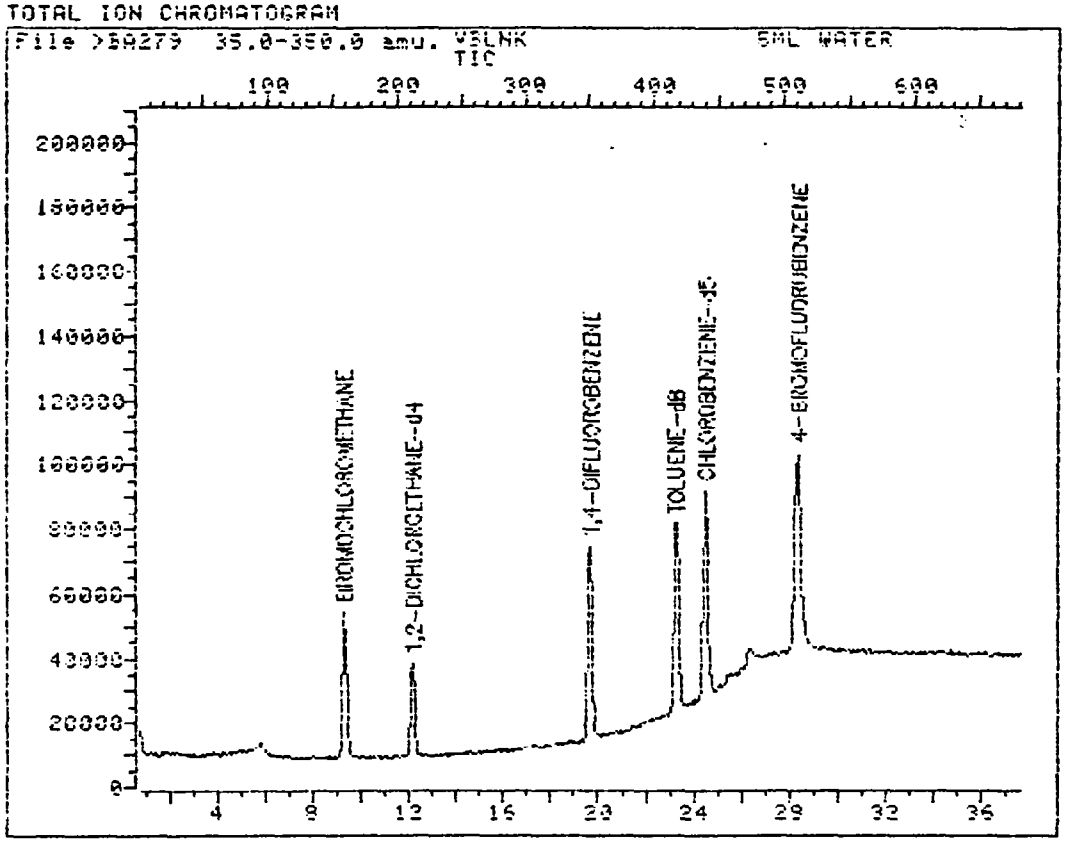
ok ✓
HP
2663
5/25/94

ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.32	128.0	75032	50.00	UG/KG	100
18)	1,2-DICHLOROETHANE-d4	12.18	65.0	127734	47.13	UG/KG	99
21)	*1,4-DIFLUOROBENZENE	19.69	114.0	287116	50.00	UG/KG	91
35)	*CHLOROBENZENE-d5	24.50	117.0	239545	50.00	UG/KG	97
40)	TOLUENE-d8	23.26	98.0	257457	50.64	UG/KG	94
44)	4-BROMOFLUOROBENZENE	28.34	95.0	201537	52.02	UG/KG	100

* Compound is ISTD

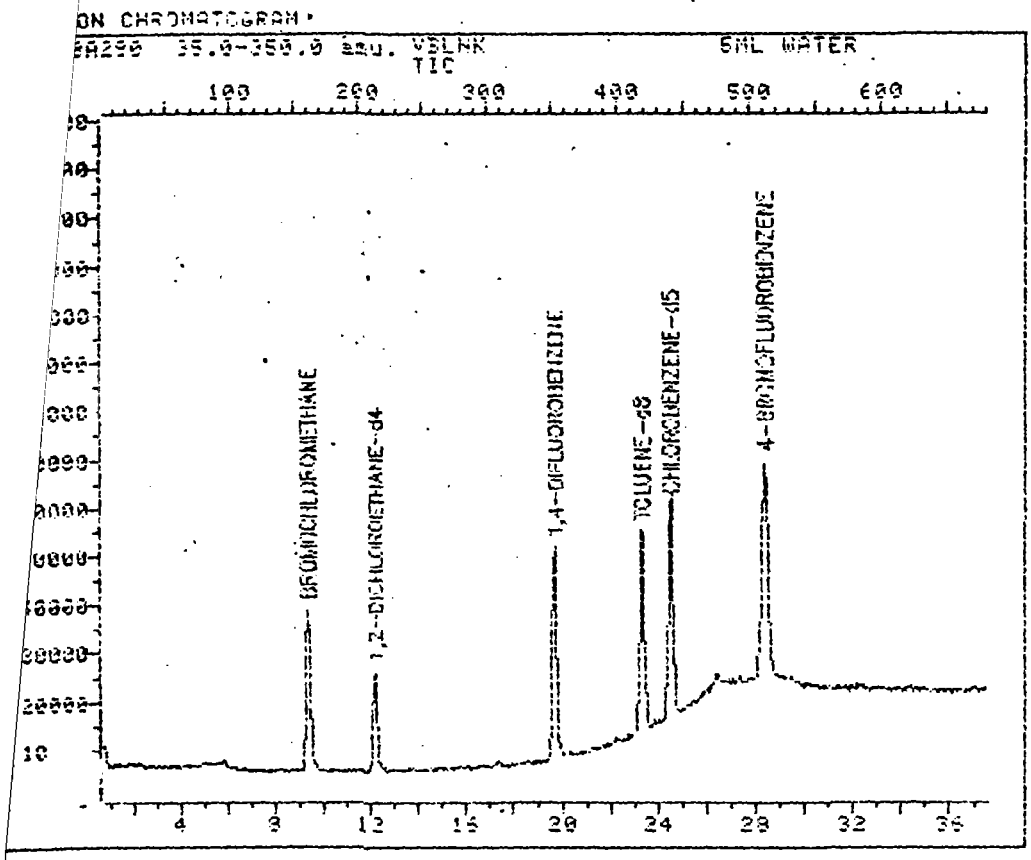
TOTAL ION CHROMATOGRAM



Data File: >8A279::E4 Quant Output File: ^8A279::SS
Name: VBLNK
Misc: 5ML WATER

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

Operator ID: USER8
Quant Time: 940524 12:11
Injected at: 940524 11:32



Data File: >BA280::E4 Quant Output File: ^BA280::SS
Name: VSLNK
Misc: 5ML WATER

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940525 10:34

Operator ID: USER8
Quant Time: 940525 10:37
Injected at: 940525 09:31

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940525 10:37
Output File: ^BA280::SS Injected at: 940525 09:31
Data File: >BA280::E4 Dilution Factor: 1.00000
Name: VBLNK
Misc: 5ML WATER

OK
GES
5/26/94

ok

ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940525 10:34

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.37	128.0	56707	50.00	UG/KG IS	100
18)	1,2-DICHLOROETHANE-d4	12.23	65.0	89590	46.11	UG/KG SUR	98
21)	*1,4-DIFLUOROBENZENE	19.74	114.0	215287	50.00	UG/KG IS	89
35)	*CHLOROBENZENE-d5	24.50	117.0	184734	50.00	UG/KG IS	83
40)	TOLUENE-d8	23.31	98.0	190330	50.32	UG/KG SUR	97
44)	4-BROMOFLUOROBENZENE	28.39	95.0	137644	50.97	UG/KG SUR	100

* Compound is ISTD

QUANT REPORT

Quant Rev: 6 Quant Time: 940527 10:58
Injected at: 940527 09:42
Dilution Factor: 1.00000

Operator ID: USER8
Output File: ^BB282::SS
Data File: >BB282::E6
Name: VBLNK
Misc: 5ML WATER

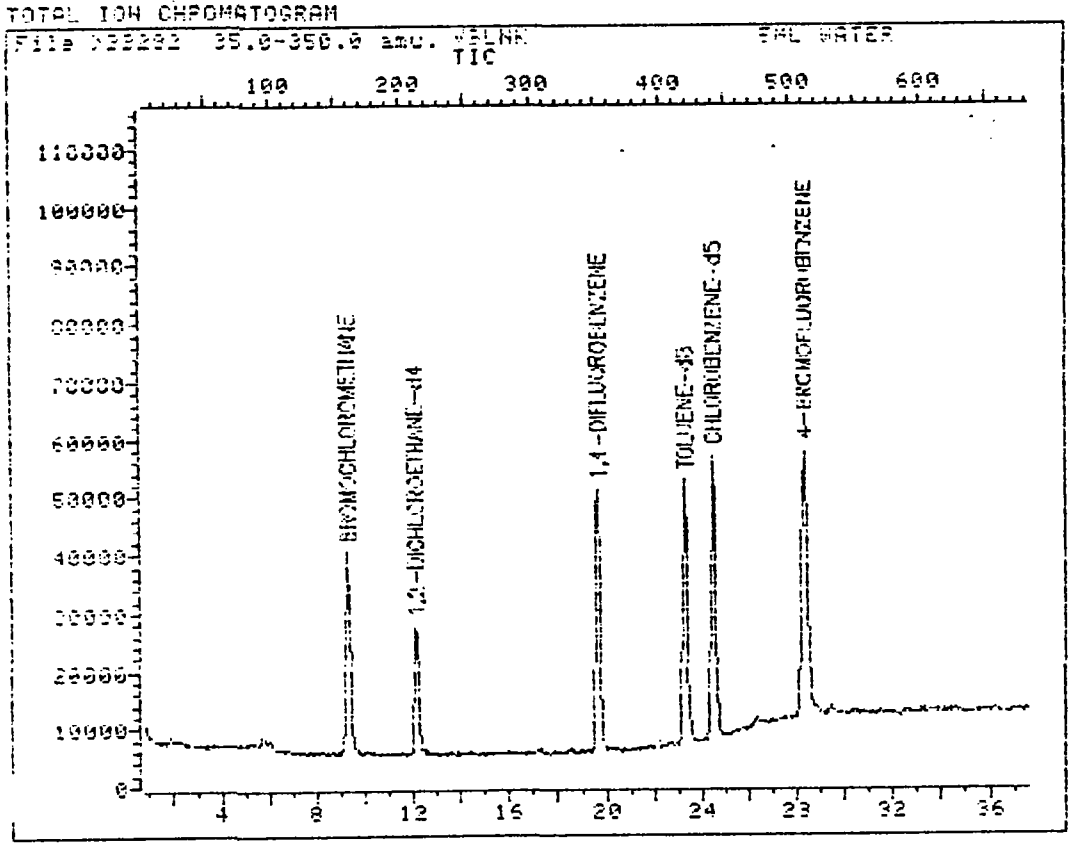
OK
GES
5/27/94

ID File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

	Compound	R.T.	Q ion	Area	Conc	Units	Q
1)	*BROMOCHLOROMETHANE	9.32	128.0	60126	50.00	UG/KG IS	100
18)	1,2-DICHLOROETHANE-d4	12.13	65.0	94034	48.50	UG/KG SUR	98
21)	*1,4-DIFLUOROBENZENE	19.69	114.0	222011	50.00	UG/KG IS	87
35)	*CHLOROBENZENE-d5	24.49	117.0	184354	50.00	UG/KG IS	89
40)	TOLUENE-d8	23.30	98.0	194349	50.74	UG/KG SUR	97
44)	4-BROMOFLUOROBENZENE	28.33	95.0	146340	50.52	UG/KG SUR	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >88282::E6 Quant Output File: ^88282::SS
Name: VBLNK
Misc: 5ML WATER

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 10:58
Injected at: 940527 09:42

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940524 17:59
Output File: ^A3080::U3 Injected at: 940524 17:21
Data File: >A3080::E1 Dilution Factor: 1.00000
Name: D156215 MS
Misc: 5G SAMPLE+10uL MS - PRE/BM

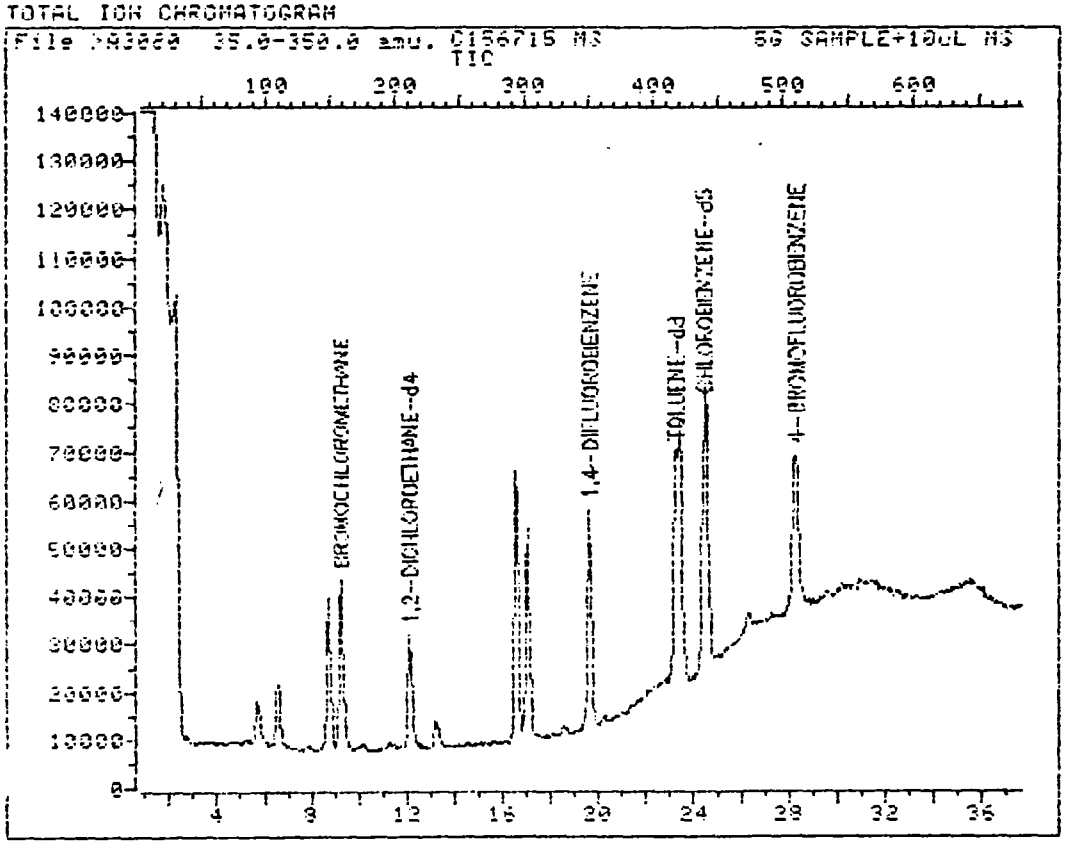
ok
SS

ID File: IDSUDA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS SW/MSD-A
Last Calibration: 940524 11:50

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.28	128.0	56496	50.00	UG/KG	100
2)	Methylene Chloride	5.72	84.0	22973	17.06	UG/KG	100
8)	Acetone	6.58	43.0	110464	340.68	UG/KG	92
13)	1,1-Dichloroethene	8.74	96.0	73577	58.74	UG/KG	93
16)	Tetrahydrofuran	10.14	42.0	8683	23.45	UG/KG	93
18)	1,2-DICHLOROETHANE-d4	12.14	65.0	95167	46.64	UG/KG	96
21)	*1,4-DIFLUOROBENZENE	19.65	114.0	216230	50.00	UG/KG	89
28)	Trichloroethene	16.57	95.0	121493	65.65	UG/KG	99
30)	Benzene	17.06	78.0	217850	53.29	UG/KG	80
)	*CHLOROBENZENE-d5	24.46	117.0	144546	50.00	UG/KG	92
36)	4-Methyl-2-Pentanone	20.39	43.0	4747	4.42	UG/KG	70
40)	TOLUENE-d8	23.27	98.0	186582	60.82	UG/KG	97
41)	Toluene	23.44	92.0	138403	64.30	UG/KG	95
42)	Chlorobenzene	24.57	112.0	141832	55.88	UG/KG	97
44)	4-BROMOFLUOROBENZENE	28.39	95.0	100216	42.87	UG/KG	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3080::E1 Quant Output File: ^A3080::SS
Name: C156715 MS
Misc: 5G SAMPLE+10uL MS - HRE/BM

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

Operator ID: USER8
Quant Time: 940524 17:59
Injected at: 940524 17:21

QUANT REPORT

Operator ID: USER8
Output File: ^A3081::DB
Data File: >A3081::E2
Name: C156715 MSD
Misc: 5G SAMPLE+10uL MS - HRE/BM

Quant Rev: 6
Quant Time: 940524 18:45
Injected at: 940524 18:06
Dilution Factor: 1.00000

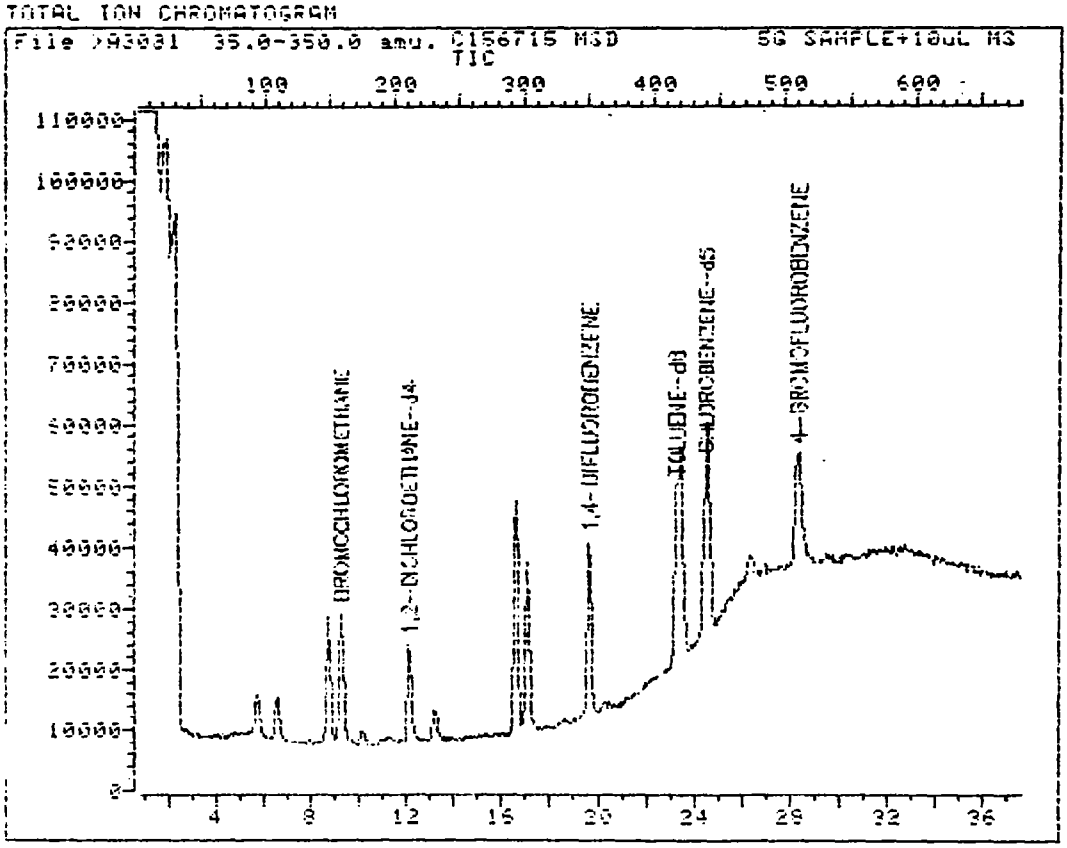
ID File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.26	128.0	37438	50.00	UG/KG	100
2)	Methylene Chloride	5.75	84.0	16903	18.94	UG/KG	100
8)	Acetone	6.62	43.0	60485	281.50	UG/KG	93
13)	1,1-Dichloroethene	8.78	96.0	50593	60.96	UG/KG	93
15)	Tetrahydrofuran	10.18	42.0	8641	35.22	UG/KG	99
18)	1,2-DICHLOROETHANE-d4	12.13	65.0	61860	45.75	UG/KG	98
21)	*1,4-DIFLUOROBENZENE	19.63	114.0	131352	50.00	UG/KG	91
28)	Trichloroethene	16.61	95.0	79887	71.06	UG/KG	98
)	Benzene	17.09	78.0	145106	58.33	UG/KG	81
35)	*CHLOROBENZENE-d5	24.45	117.0	183233	50.00	UG/KG	88
36)	4-Methyl-2-Pentanone	20.28	43.0	6176M	9.99	UG/KG	79
40)	TOLUENE-d8	23.26	98.0	113643	64.34	UG/KG	99
41)	Toluene	23.47	92.0	91991	74.11	UG/KG	94
42)	Chlorobenzene	24.55	112.0	89124	60.98	UG/KG	96
44)	4-BROMOFLUOROBENZENE	28.29	95.0	53994	40.04	UG/KG	100

* Compound is IHTD

001208

TOTAL ION CHROMATOGRAM



Data File: >A3081::E2 Quant Output File: ^A3081::SS
Name: C156715 MSD
Misc: 5G SAMPLE+10uL MS - HRE/BM

Id File: IDSVOA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940524 11:50

Operator ID: USER8
Quant Time: 940524 18:45
Injected at: 940524 18:06

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940527 14:05
Output File: ^A3128::SS Injected at: 940527 13:26
Data File: >A3128::E6 Dilution Factor: 1.00000
Name: C156814 MS
Misc: 5G SAMPLE+10UL MS - HRE/BM

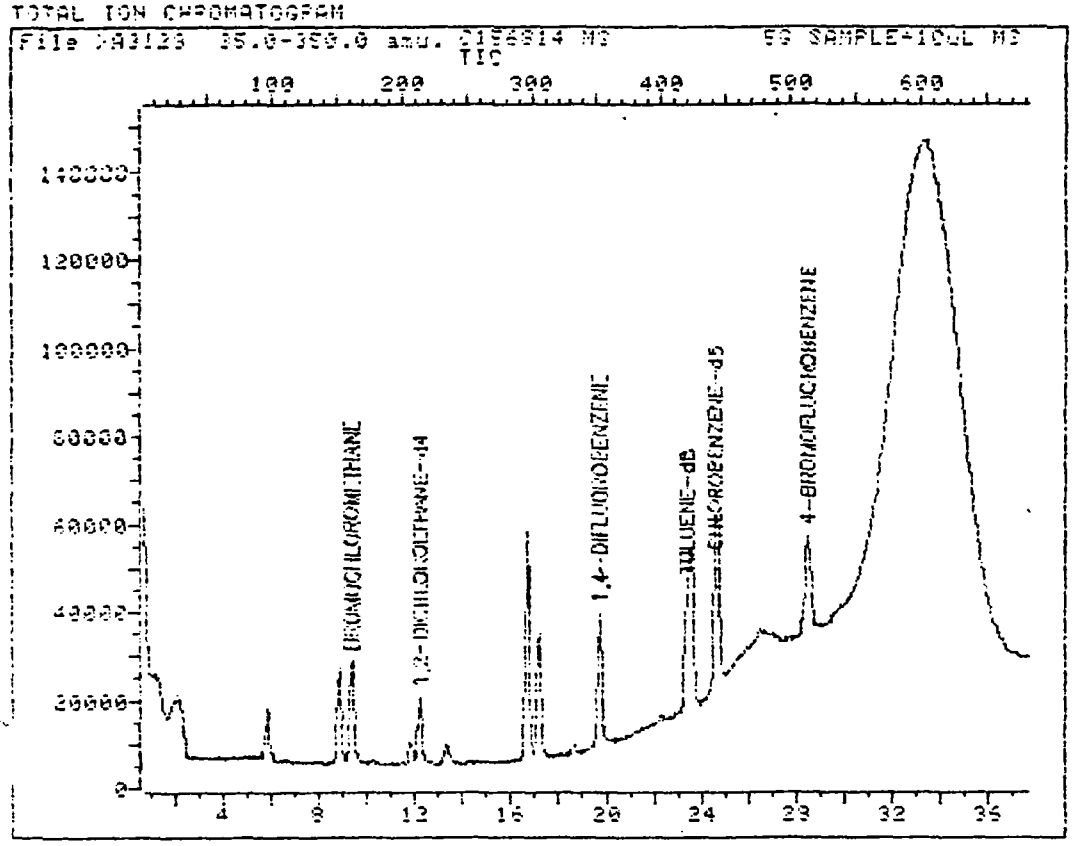
ok
GES
5/27/94

ID File: TOSVUA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.37	128.0	43590	50.00	UG/KG	100
7)	Methylene Chloride	5.86	84.0	32549	31.95	UG/KG	100
13)	1,1-Dichloroethene	8.88	96.0	50386	56.46	UG/KG	94
18)	1,2-DICHLOROETHANE-d4	12.23	65.0	66233	47.12	UG/KG	97
21)	*1,4-DIFLUOROBENZENE	19.74	114.0	148287	50.00	UG/KG	88
28)	Trichloroethene	16.71	95.0	106072	86.55	UG/KG	98
29)	Benzene	17.20	78.0	143583	55.30	UG/KG	82
35)	*CHLOROBENZENE-d5	24.55	117.0	100439	50.00	UG/KG	87
[illegible])	TOLUENE-d8	23.36	98.0	124660	59.74	UG/KG	96
[illegible])	Toluene	23.58	92.0	97554	66.95	UG/KG	88
42)	Chlorobenzene	24.71	112.0	102970	54.84	UG/KG	94
44)	4-BROMOFLUOROBENZENE	28.44	95.0	67293	42.64	UG/KG	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3128::E6 Quant Output File: ^A3128::SS
Name: C156814 MS
Misc: 5G SAMPLE+10uL MS - HFE/SM

Id File: IDSVOA::D9
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 14:05
Injected at: 940527 13:26

QUANT REPORT

Operator ID: USER8 Quant Rev: 6 Quant Time: 940527 14:50
Output File: ^A3129::SS Injected at: 940527 14:11
Data File: :A3129::E6 Dilution Factor: 1.00000
Name: C156814 MSD
Misc: 5G SAMPLE+10uL MS - PRE/PM

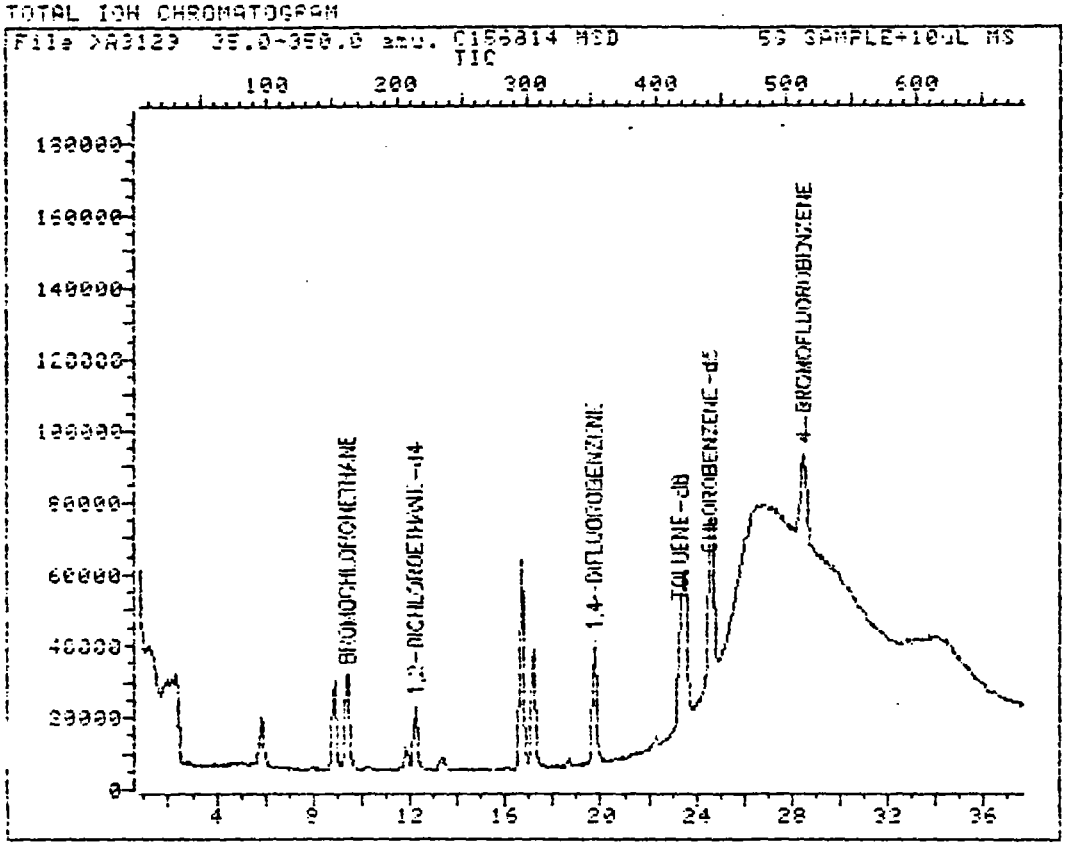
5/22/94

ID File: IDSHUA::05
Title: QUANTITATION FILE FOR VOLATILE SOILS SD/MSD-A
Last Calibration: 940527 10:57

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	9.37	128.0	48645	50.00	UG/KG	100
2)	Methylene Chloride	5.86	84.0	38225	33.63	UG/KG	100
13)	1,1-Dichloroethene	8.89	96.0	58586	58.82	UG/KG	95
18)	1,2-DICHLOROETHANE-d4	12.23	65.0	24318	47.18	UG/KG	98
21)	*1,4-DIFLUOROBENZENE	19.74	114.0	168629	50.00	UG/KG	83
28)	Trichloroethene	16.72	95.0	120767	86.66	UG/KG	98
29)	Benzene	17.20	78.0	167307	56.66	UG/KG	80
35)	*CHLOROBENZENE-d5	24.55	117.0	117607	50.00	UG/KG	83
[illegible])	TOLUENE-d8	23.36	98.0	138055	56.50	UG/KG	97
[illegible])	Toluene	23.58	92.0	112822	66.13	UG/KG	92
42)	Chlorobenzene	24.71	112.0	120432	54.72	UG/KG	97
44)	4-BROMOFLUOROBENZENE	28.45	95.0	27510	41.94	UG/KG	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3129::E6 Quant Output File: ^A3129::SS
Name: C156814 MSD
Misc: 5G SAMPLE+10uL MS - HRE/BM

Id File: IDSVOA::D5
Title: QUANTITATION FILE FOR VOLATILE SOILS GC/MSD-A
Last Calibration: 940527 10:57

Operator ID: USER8
Quant Time: 940527 14:50
Injected at: 940527 14:11

HTC
Semi-Volatiles

This package contains all of the data associated with the semi-volatiles analyses of water samples C156876, C156877, C156878, C156879, C156881 and C156882.

The matrix spike and matrix spike duplicate were performed on sample C156542 and are included also.

Susan J. Bussey

Susan J. Bussey

Semi-Volatiles Group Leader

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

R218065

Name: Heritage Laboratories, Inc. Contract: _____

Lab Code: EMSIN Case No.: _____ SAS No.: _____ SDG No.: _____

Analyst: HR 2663 Sample No.: C156542 MS File: B4059 Date/Time: 051994/14:49 VB693 #2

MSD File: B4060 Date/Time: 051994/15:51 VB693. #3

QC#: Q925171 COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	200	0.0	96.0	48.0	12-110
2-Chlorophenol	200	0.0	109.0	54.5	27-123
1,4-Dichlorobenzene	100	0.0	74.0	74.0	36- 97
N-Nitroso-di-n-prop.	100	0.0	80.0	80.0	41-116
1,2,4-Trichlorobenze	100	0.0	68.0	68.0	39- 98
4-Chloro-3-methylphe	200	0.0	132.0	66.0	23- 97
Acenaphthene	100	0.0	64.0	64.0	46-118
4-Nitrophenol	200	0.0	24.0	12.0	10- 80
2,4-Dinitrotoluene	100	0.0	79.0	79.0	24- 96
Pentachlorophenol	200	0.0	90.0	45.0	9-103
Pyrene	100	0.0	74.0	74.0	26-127

QC#: Q925172 COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	111.0	55.5	14.5	42	12-110
2-Chlorophenol	200	133.0	66.5	19.8	40	27-123
1,4-Dichlorobenzene	100	81.0	81.0	9.0	28	36- 97
N-Nitroso-di-n-prop.	100	95.0	95.0	17.1	38	41-116
1,2,4-Trichlorobenze	100	70.0	70.0	2.9	28	39- 98
4-Chloro-3-methylphe	200	136.0	68.0	3.0	42	23- 97
Acenaphthene	100	67.0	67.0	4.6	31	46-118
4-Nitrophenol	200	78.0	39.0	47.6	50	10- 80
2,4-Dinitrotoluene	100	74.0	74.0	6.5	38	24- 96
Pentachlorophenol	200	119.0	59.5	27.8	50	9-103
Pyrene	100	74.0	74.0	0.0	31	26-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS:

METHOD BLANK SUMMARY

Case No. _____ Laboratory Name _____

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
BLK246-2	5/23/94	BNA	water		#102		—	—	ug/L	

Comments:

FORM IV

ONE - 41

Revision 0
Date September 1986

001216

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

ab me: _____ Contract: _____

ab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	Blk246-2	74	80	86	31	41	86	—	0
02	C156878	71	86	90	29	37	90	—	0
03	C156879	49	60	41	33	45	57	—	0
04	C156876	68	79	58	39	44	63	—	0
05	C156877	71	82	77	29	40	58	—	0
06	C156881	* 20	* 26	* 20	27	36	42	—	3
07	C156882	42	52	42	31	30	28	—	0
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d6	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: TB516 DFTPP Injection Date: 5/25/94

Instrument ID: #102 DFTPP Injection Time: 11:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.05
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	56.25
70	Less than 2.0% of mass 69	0.16 (0.29)1
127	40.0 - 60.0% of mass 198	41.04
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.17
275	10.0 - 30.0% of mass 198	19.52
365	Greater than 1.00% of mass 198	2.22
441	Present, but less than mass 443	9.35 (87.61)
442	Greater than 40.0% of mass 198	61.39
443	17.0 - 23.0% of mass 442	10.68 (17.39)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050		VB704	5/25/94	13:34
02	BLK 24-2		B4098	↓	14:48
03	C156878		B4099		15:37
04	C156879		B4100		16:26
05	C156876		B4108		22:55
06	C156877		B4109		23:44
07	C156881		B4116	5/26/94	0:33
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page ___ of ___

FORM V SV

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: TB517 DFTPP Injection Date: 5/26/94

Instrument ID: #102 DFTPP Injection Time: 10:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.65
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	59.17
70	Less than 2.0% of mass 69	0.00 (0.00)1
127	40.0 - 60.0% of mass 198	43.03
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.51
275	10.0 - 30.0% of mass 198	19.77
365	Greater than 1.00% of mass 198	1.91
441	Present, but less than mass 443	9.18 (99.25)
442	Greater than 40.0% of mass 198	46.40
443	17.0 - 23.0% of mass 442	9.25 (19.92)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050.		VB705	5/26/94	11:23
02	BLK349-3		B4111	↓	12:56
03	C156882		B4113	↓	14:38
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

001219

page ___ of ___

Initial Calibration Data
HSL Compounds

Case No: ---------- Instrument ID: ----------

Contractor: ---------- Calibration Date: 04/27/94 ----------

Contract No: ----------

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>CB531	>VB685	>CB532	>CB530	>CB529				
	RF	RF	RF	RF	RF				
Compound	20.00	50.00	80.00	120.00	160.00	$\overline{RF}$	% RSD	CCC	SPCC
Pyridine	-	.63165	-	-	-	.63165	-		
2-Picoline	-	.78901	-	-	-	.78901	-		
2-Fluorophenol	1.05019	.91335	.92569	.83955	.73617	.89299	12.969		
Phenol	1.71900	1.47575	1.43608	1.28362	1.19341	1.42157	14.187	*	
bis(2-chloroethyl)ether	1.31235	1.15690	1.17451	1.15418	1.06478	1.17254	7.598		
2-Chlorophenol	1.53655	1.14413	1.16992	1.05629	.98600	1.17858	18.071		
1,3-Dichlorobenzene	1.51492	1.19904	1.11561	.92991	.86615	1.12513	22.776		
1,4-Dichlorobenzene	1.53906	1.21628	1.12509	.88184	.84786	1.12202	25.037	*	
Phenol-d6	1.65403	1.31646	1.28825	1.14783	1.01207	1.28373	18.699		
Benzyl alcohol	.82535	.73310	.72320	.68239	.64735	.72228	9.274		
1,2-Dichlorobenzene	1.48258	1.09472	1.05666	.88552	.82236	1.06837	24.153		
2-Methylphenol	1.31394	.99247	.98041	.76758	.73787	.95846	24.082		
bis(2-chloroisopropyl)ether	3.92545	3.31032	3.33046	3.11492	2.85929	3.30809	11.905		
4-Methylphenol	1.54914	1.13663	1.06877	.85029	.80136	1.08124	27.507		
N-Nitroso-di-n-propylamine	1.52810	1.26988	1.05361	.92302	.84533	1.12399	24.671		**
Hexachloroethane	.77354	.63108	.59033	.39211	.38525	.55446	29.928		
Nitrobenzene	.44038	.37526	.36647	.31297	.31513	.36204	14.445		
Isophorone	.84481	.72941	.78604	.81202	.60432	.75532	12.497		
2-Nitrophenol	.25291	.20359	.20702	.18521	.17712	.20517	14.356	*	
Nitrobenzene-d5	.43677	.37655	.39138	.36455	.35525	.38490	8.313		
2,4-Dimethylphenol	.46922	.38456	.37156	.33149	.32282	.37593	15.506		
Benzoic acid	.16761	.19136	.24730	.21777	.22548	.20990	14.752		
bis(2-Chloroethoxy)methane	.50755	.42066	.41459	.36566	.35508	.41271	14.637		
2,4-Dichlorophenol	.40650	.30124	.29544	.23387	.23032	.29347	24.321	*	
1,2,4-Trichlorobenzene	.38024	.31957	.29305	.22111	.21441	.28567	24.373		
Naphthalene	1.04135	.76789	.72418	.55483	.56213	.73008	27.160		
4-Chloraniline	.51450	.41784	.40928	.33495	.30861	.39704	20.327		
Hexachlorobutadiene	.27098	.21201	.19677	.14953	.14907	.19567	25.858	*	
4-Chloro-3-methylphenol	.52160	.37934	.39879	.32616	.31222	.38762	21.433	*	
2-Methylnaphthalene	.76987	.56927	.51933	.41604	.40886	.53668	27.422		
Hexachlorocyclopentadiene	.36010	.33471	.36448	.33949	.36376	.35251	4.047		**
2-Fluorobiphenyl	1.41987	1.09781	1.06035	1.00364	.95478	1.10729	16.530		

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: _____

Contractor: _____ Calibration Date: 04/27/94

Contract No: _____

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>CB531	>UB605	>CB532	>CB530	>CB529				
	RF	RF	RF	RF	RF				
Compound	20.00	50.00	80.00	120.00	160.00	$\overline{RF}$	% RSD	CCC	SPCC
2,4,6-Trichlorophenol	.53675	.45435	.44970	.46525	.43565	.46834	8.475	*	
Toluenediamine	-	.40160	-	-	-	.40160	-		
2,4,5-Trichlorophenol	.52748	.42546	.44445	.45240	.46444	.46285	8.385		
2-Chloronaphthalene	1.34545	.89174	.98808	.94951	.89913	1.01478	18.621		
Dinitrobenzene	-	.22817	-	-	-	.22817	-		
2-Nitroaniline	.63701	.57581	.63558	.69254	.67396	.64298	6.963		
Dimethylphthalate	1.64201	1.44049	1.41828	1.49054	1.43038	1.48434	6.220		
Acenaphthylene	2.16789	1.72301	1.69475	1.53397	1.48945	1.72181	15.611		
2,6-Dinitrotoluene	.43297	.34783	.37948	.38744	.34483	.37851	9.454		
3-Nitroaniline	.36572	.34037	.35415	.24011	.36995	.33406	16.093		
Acenaphthene	1.31915	1.02645	.99662	.90589	.88749	1.02712	16.891	*	
2,4-Dinitrophenol	.15843	.28795	.29068	.35872	.33490	.27014	31.416		**
4-Nitrophenol	.14653	.13312	.16082	.16589	.17791	.15605	11.092		**
Dibenzofuran	2.04224	1.49299	1.40509	1.27081	1.24149	1.49052	21.791		
Tetrachlorophenol	-	.39852	.01183	-	-	.20518	133.266		
2,4-Dinitrotoluene	.57324	.44406	.40181	.34603	.42260	.43754	19.235		
Diethylphthalate	1.88149	1.53641	1.51908	1.58246	1.49415	1.60272	9.929		
4-Chlorophenyl-phenylether	.82845	.60511	.54935	.44296	.43334	.57184	28.096		
Fluorene	1.52118	1.08548	1.04225	.86401	.84880	1.07234	25.364		
4-Nitroaniline	.37130	.35129	.40328	.39834	.38529	.38190	5.537		
2,4,6-Tribromophenol	.39145	.35457	.40154	.42747	.40041	.39589	6.665		
4,6-Dinitro-2-methylphenol	.15502	.15391	.17241	.13909	.13108	.15030	10.622		
N-Nitrosodiphenylamine	.49581	.38562	.37743	.30305	.28778	.36994	22.360	*	
Benzidine	.93784	.69562	.83759	.64102	.60209	.74283	18.968		
4-Bromophenyl-phenylether	.23323	.16776	.16091	.12375	.12333	.16179	27.756		
alpha-BHC	.15300	.11971	.11238	.09097	.08855	.11292	23.128		
Hexachlorobenzene	.31713	.25505	.26106	.22824	.23100	.25849	13.851		
beta-BHC	.11743	.08952	.08329	.06057	.05987	.08214	28.952		
gamma-BHC (Lindane)	.14132	.10813	.10953	.09127	.08864	.10778	19.501		
Pentachlorophenol	.13000	.13026	.14961	.14938	.13603	.13906	7.068	*	
Phenanthrene	1.08003	.79455	.79533	.62924	.64451	.78873	22.959		
delta-BHC	.11942	.09664	.10028	.09166	.08771	.09914	12.410		

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: _____

Contractor: _____ Calibration Date: 04/27/94

Contract No: _____

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	XCB531	XWB605	XCB532	XCB530	XCB529				
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RF}$	% RSD	CCC	SPCC
Carbazole	.97460	.81556	.78999	.67910	.67437	.78674	15.616		
Anthracene	1.05586	.77080	.73610	.51551	.62755	.74276	27.285		
Heptachlor	.14027	.10007	.11410	.09446	.08040	.10928	18.506		
Aldrin	.19722	.14632	.14237	.11679	.11308	.14332	23.364		
Di-n-butylphthalate	1.57040	1.05427	.91767	.69677	.69660	.88514	36.745		
Fluoranthene	1.19271	.89614	.87164	.70750	.70136	.87397	22.850	*	
Heptachlor epoxide	.12137	.11907	.13369	.12397	.12300	.12422	4.516		
Pyrene	1.62892	1.33934	1.34541	1.05730	1.13884	1.30198	17.029		
alpha-Endosulfan	.04075	.04066	.04059	.03564	.03578	.04028	13.236		
p,p'-DDE	.34050	.28273	.28770	.26864	.25296	.28852	11.600		
Dieldrin	.35085	.31040	.31742	.26505	.27770	.30430	11.175		
Endrin	.07207	.06912	.07161	.06810	.07336	.07005	3.069		
beta-Endosulfan	.05009	.03691	.04117	.03259	.03340	.03885	18.361		
p,p'-DDD	.49153	.41761	.42159	.33060	.33700	.40144	16.131		
Endrin aldehyde	.14058	.12200	.13352	.12119	.12642	.12876	6.378		
Endosulfan sulfate	.08289	.07776	.08614	.07593	.07615	.08170	9.162		
p,p'-DDT	.38202	.35479	.36590	.32144	.32359	.34555	7.587		
Butylbenzylphthalate	.83195	.69596	.75356	.60805	.70697	.73530	8.119		
3,3'-Dichlorobenzidine	.27769	.30597	.30089	.32459	.32015	.30890	6.475		
Benzo(a)anthracene	.98399	.94165	1.01193	.97292	.76492	.91900	10.325		
Chrysene	1.12797	.93603	1.09403	.91149	.71740	.95730	17.157		
bis(2-Ethylhexyl)phthalate	1.13671	.95412	1.02276	.86415	.86995	.96954	11.765		
Methoxychlor	.64719	.57149	.63225	.55065	.64417	.62515	5.240		
Terphenyl-d14	1.13500	.97276	1.08241	.91156	.92503	1.00552	9.856		
Di-n-octylphthalate	1.93325	1.60436	1.73242	1.31404	1.35760	1.60451	16.361	*	
Benzo(b)fluoranthene	.96614	.88019	1.00435	.95316	.95351	.95347	4.309		
Benzo(k)fluoranthene	.92657	1.02600	1.00760	.92049	.94244	.96400	5.081		
Benzo(a)pyrene	.88917	.92625	.95569	.89455	.95003	.92314	3.323	*	
Indeno(1,2,3-cd)pyrene	.65935	.64013	.77711	.81710	.86218	.75277	12.669		
Dibenzo(a,h)anthracene	.63210	.63323	.72762	.79005	.78492	.71360	10.903		
Benzo(g,h,i)perylene	.72565	.70193	.83352	.85376	.88251	.79948	10.078		

RF - Response Factor (Subscript is amount in US/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/25/94

Contractor: Time: 13:34

Contract No: Laboratory ID:)U8704

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Pyridine	.63165	.97975	55.11			(Conc=50.00)
2-Picoline	.78901	1.13778	44.20			(Conc=50.00)
2-fluorophenol	.89299	1.14022	27.69			
Phenol	1.42157	1.68167	18.30	*		
bis(2-chloroethyl)ether	1.17254	1.11608	4.82			
2-Chlorophenol	1.17858	1.51478	28.53			
1,3-Dichlorobenzene	1.12513	1.27812	13.60			
1,4-Dichlorobenzene	1.12202	1.28222	14.28	*		
Phenol-d6	1.28373	1.57318	22.55			
Benzyl alcohol	.72228	.82578	14.33			
1,2-Dichlorobenzene	1.06837	1.26976	18.85			
2-Methylphenol	.95846	1.12463	17.34			
bis(2-chloroisopropyl)ether	3.30809	2.82507	14.60			
4-Methylphenol	1.08124	1.24843	15.46			
N-Nitroso-di-n-propylamine	1.12399	1.16190	3.37		**	
Hexachloroethane	.55446	.56338	1.61			
Nitrobenzene	.36204	.34490	4.74			
Isophorone	.75532	.69017	8.63			
2-Nitrophenol	.20517	.24883	21.28	*		
Nitrobenzene-d5	.38490	.37320	3.04			
2,4-Dimethylphenol	.37593	.42227	12.33			
Benzoic acid	.20990	.16530	21.25			
bis(2-Chloroethoxy)methane	.41271	.39448	4.42			
2,4-Dichlorophenol	.29347	.36107	23.03	*		
1,2,4-Trichlorobenzene	.28567	.32905	15.18			
Naphthalene	.73008	.82739	13.33			
4-Chloraniline	.39704	.40949	3.14			
Hexachlorobutadiene	.19567	.22638	15.70	*		
4-Chloro-3-methylphenol	.38762	.42886	10.64	*		
2-Methylnaphthalene	.53668	.60195	12.16			
Hexachlorocyclopentadiene	.35251	.34370	2.50		**	
2-fluorobiphenyl	1.10729	1.08692	1.84			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/25/94

Contractor: Time: 13:34

Contract No: Laboratory ID: >V8704

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.46834	.55887	19.33	*	
Toluenediamine	.40160	.28152	29.90		
2,4,5-Trichlorophenol	.46285	.49559	7.07		
2-Chloronaphthalene	1.01478	1.06694	5.14		
Dinitrobenzene	.22817	.26743	17.21		
2-Nitroaniline	.64298	.52349	18.58		
Dimethylphthalate	1.48434	1.45548	1.94		
Acenaphthylene	1.72181	1.81562	5.45		
2,6-Dinitrotoluene	.37851	.37443	1.08		
3-Nitroaniline	.33406	.30278	9.36		
Acenaphthene	1.02712	1.04224	1.47	*	
2,4-Dinitrophenol	.27014	.18467	31.64		**
4-Nitrophenol	.15685	.14827	5.47		**
Dibenzofuran	1.49052	1.71949	15.36		
Tetrachlorophenol	.20518	.44895	118.81		
2,4-Dinitrotoluene	.43754	.48546	10.95		
Diethylphthalate	1.60272	1.44437	9.88		
4-Chlorophenyl-phenylether	.57184	.61374	7.33		
Fluorene	1.07234	1.08922	1.57		
4-Nitroaniline	.38190	.32934	13.76		
2,4,6-Tribromophenol	.39509	.41962	6.21		
4,6-Dinitro-2-methylphenol	.15030	.16332	8.66		
N-Nitrosodiphenylamine	.36994	.43827	18.47	*	
Benzidine	.74283	.63911	13.96		
4-Bromophenyl-phenylether	.16179	.24152	49.27		
alpha-BHC	.11292	.15477	37.06		
Hexachlorobenzene	.25849	.34033	31.66		
beta-BHC	.08214	.09260	12.74		
gamma-BHC (Lindane)	.10778	.12532	16.27		
Pentachlorophenol	.13906	.16171	16.29	*	
Phenanthrene	.78873	.84585	7.24		
delta-BHC	.09914	.10668	7.61		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

001234

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/25/94

Contractor: Time: 13:34

Contract No: Laboratory ID: >VB704

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Carbazole	.78674	.74636	5.13		
Anthracene	.74276	.85499	15.11		
Heptachlor	.10928	.14896	36.31		
Aldrin	.14332	.12541	12.50		
Di-n-butylphthalate	.98514	1.05510	7.10		
Fluoranthene	.87387	.94534	8.18	*	
Heptachlor epoxide	.12422	.14203	14.33		
Pyrene	1.30198	1.36092	4.53		
alpha-Endosulfan	.04028	.04978	23.59		
p,p'-DDE	.28852	.33900	17.50		
Dieldrin	.30430	.19733	35.15		
Endrin	.07085	.06795	4.11		
beta-Endosulfan	.03885	.04561	17.40		
p,p'-DDD	.40144	.52686	31.24		
Endrin aldehyde	.12876	.06758	47.51		
Endosulfan sulfate	.08178	.09894	20.99		
p,p'-DDT	.34955	.40594	16.13		
Butylbenzylphthalate	.73530	.55153	24.99		
3,3'-Dichlorobenzidine	.30890	.37646	21.87		
Benzo(a)anthracene	.91908	.95121	3.50		
Chrysene	.95738	.90073	5.92		
bis(2-Ethylhexyl)phthalate	.96954	.61423	36.65		
Methoxychlor	.62915	.58269	7.38		
Terphenyl-d14	1.00552	1.10956	10.35		
Di-n-octylphthalate	1.60451	1.25633	21.70	*	
Benzo(b)fluoranthene	.95347	.96282	.98		
Benzo(k)fluoranthene	.96480	.99593	3.23		
Benzo(a)pyrene	.92314	.91694	.67	*	
Indeno(1,2,3-cd)pyrene	.75277	.76146	1.15		
Dibenzo(a,h)anthracene	.71360	.69470	2.65		
Benzo(g,h,i)perylene	.79948	.74789	6.45		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/26/94

Contractor: Time: 11:23

Contract No: Laboratory ID: >VB705

Instrument ID: B123 Initial Calibration Date: 05/26/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Pyridine	.56397	.85092	50.88			(Conc=56.00)
2-Picoline	.71729	1.02945	43.52			(Conc=55.00)
2-Fluorophenol	.89299	1.16329	30.27			(Conc=50.00)
Phenol	1.42157	1.70667	20.06	*		
bis(2-chloroethyl)ether	1.17254	1.10975	5.35			
2-Chlorophenol	1.17858	1.53633	30.35			
1,3-Dichlorobenzene	1.12513	1.31558	16.93			
1,4-Dichlorobenzene	1.12202	1.27778	13.88	*		
Phenol-d6	1.28373	1.51198	17.78			(Conc=50.00)
Benzyl alcohol	.72228	.84278	16.68			
1,2-Dichlorobenzene	1.06837	1.26703	18.59			
2-Methylphenol	.95846	1.12186	17.05			
bis(2-chloroisopropyl)ether	3.30809	2.79156	15.61			
4-Methylphenol	1.08124	1.21119	12.02			
N-Nitroso-di-n-propylamine	1.12399	1.16866	3.97		**	
Hexachloroethane	.55446	.52474	5.36			
Nitrobenzene	.36204	.33729	6.84			
Isophorone	.75532	.66833	11.52			
2-Nitrophenol	.20517	.24130	17.61	*		
Nitrobenzene-d5	.38490	.37032	3.79			
2,4-Dimethylphenol	.37593	.41427	10.20			
Benzoic acid	.20990	.12489	40.50			
bis(2-Chloroethoxy)methane	.41271	.40413	2.08			
2,4-Dichlorophenol	.29347	.36563	24.59	*		
1,2,4-Trichlorobenzene	.28567	.32915	15.22			
Naphthalene	.73008	.82613	13.16			
4-Chloraniline	.39704	.41688	5.00			
Hexachlorobutadiene	.19567	.21837	11.60	*		
4-Chloro-3-methylphenol	.38762	.41665	7.49	*		
2-Methylnaphthalene	.53668	.62021	15.56			
Hexachlorocyclopentadiene	.35251	.33259	5.65		**	
2-Fluorobiphenyl	1.10729	1.11182	.41			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/26/94

Contractor: Time: 11:23

Contract No: Laboratory ID: XV8705

Instrument ID: #123 Initial Calibration Date: 05/26/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC				
2,4,6-Trichlorophenol	.46834	.57045	21.80	*					
Toluenediamine	.37886	.25023	33.95			(Conc=53.00)			
2,4,5-Trichlorophenol	.46285	.45968	.68						
2-Chloronaphthalene	1.01478	1.10022	8.42						
Dinitrobenzene	.23767	.27052	13.82			(Conc=48.00)			
2-Nitroaniline	.64298	.51327	20.17						
Dimethylphthalate	1.48434	1.55298	4.62						
Acenaphthylene	1.72181	1.83959	6.84						
2,6-Dinitrotoluene	.37851	.36971	2.32						
3-Nitroaniline	.33406	.30882	7.56						
Acenaphthene	1.02712	1.07961	5.11	*					
2,4-Dinitrophenol	.27014	.20106	25.57		**				
4-Nitrophenol	.15685	.15415	1.73		**				
Dibenzofuran	1.49052	1.89611	27.21						
Tetrachlorophenol	.19751	.40677	105.94			(Conc=52.00)			
2,4-Dinitrotoluene	.43754	.51524	17.76						
Diethylphthalate	1.60272	1.47733	7.82						
4-Chlorophenyl-phenylether	.57184	.65127	13.89						
Fluorene	1.07234	1.10110	2.68						
4-Nitroaniline	.38190	.32600	14.64						
2,4,6-Tribromophenol	.39509	.40534	2.59			(Conc=50.00)			
4,6-Dinitro-2-methylphenol	.15030	.15948	6.11						
N-Nitrosodiphenylamine	.36994	.45512	23.03	*					
Benzidine	.74283	.56385	24.09						
4-Bromophenyl-phenylether	.16179	.23345	44.29						
alpha-BHC	.11292	.15128	33.97			Hexachlorobenzene	.25849	.32314	25.01
beta-BHC	.08214	.09006	9.65						
gamma-BHC (Lindane)	.10778	.11312	4.96						
Pentachlorophenol	.13906	.11806	15.10	*					
Phenanthrene	.78873	.79913	1.32						
delta-BHC	.09914	.10497	5.88						

RF - Response factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
BNA Compounds

Case No: Calibration Date: 05/26/94

Contractor: Time: 11:23

Contract No: Laboratory ID: >V8705

Instrument ID: #123 Initial Calibration Date: 05/26/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Carbazole	.78674	.75557	3.96		
Anthracene	.74276	.82268	10.76		
Heptachlor	.10928	.13570	24.18		
Aldrin	.14332	.11327	20.96		
Di-n-butylphthalate	.98514	1.03450	5.01		
Fluoranthene	.87387	.97801	11.92	*	
Heptachlor epoxide	.12422	.13885	11.77		
Pyrene	1.30198	1.47694	13.44		
alpha-Endosulfan	.04028	.05226	29.73		
Dieldrin	.30430	.21125	30.58		
p,p'-DDE	.28852	.36106	25.14		
Endrin	.07085	.08238	16.26		
beta-Endosulfan	.03885	.04663	20.03		
p,p'-DDD	.40144	.54342	35.37		
Endrin aldehyde	.12876	.07022	45.46		
Endosulfan sulfate	.08178	.09946	21.63		
p,p'-DDT	.34955	.42175	20.65		
Butylbenzylphthalate	.73530	.59734	18.76		
3,3'-Dichlorobenzidine	.30890	.35952	16.39		
Benzo(a)anthracene	.91908	.90638	1.38		
Chrysene	.95738	.88739	7.31		
bis(2-Ethylhexyl)phthalate	.96954	.65728	32.21		
Methoxychlor	.62915	.60975	3.08		
Terphenyl-d14	1.00552	1.20574	19.91		
Di-n-octylphthalate	1.60451	1.35203	15.74	*	
Benzo(b)fluoranthene	.95347	1.00685	5.60		
Benzo(k)fluoranthene	.96480	1.02154	5.88		
Benzo(a)pyrene	.92314	.92058	.28	*	
Indeno(1,2,3-cd)pyrene	.75277	.70635	6.17		
Dibenzo(a,h)anthracene	.71360	.65625	8.04		
Benzo(g,h,i)perylene	.79948	.73902	7.56		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

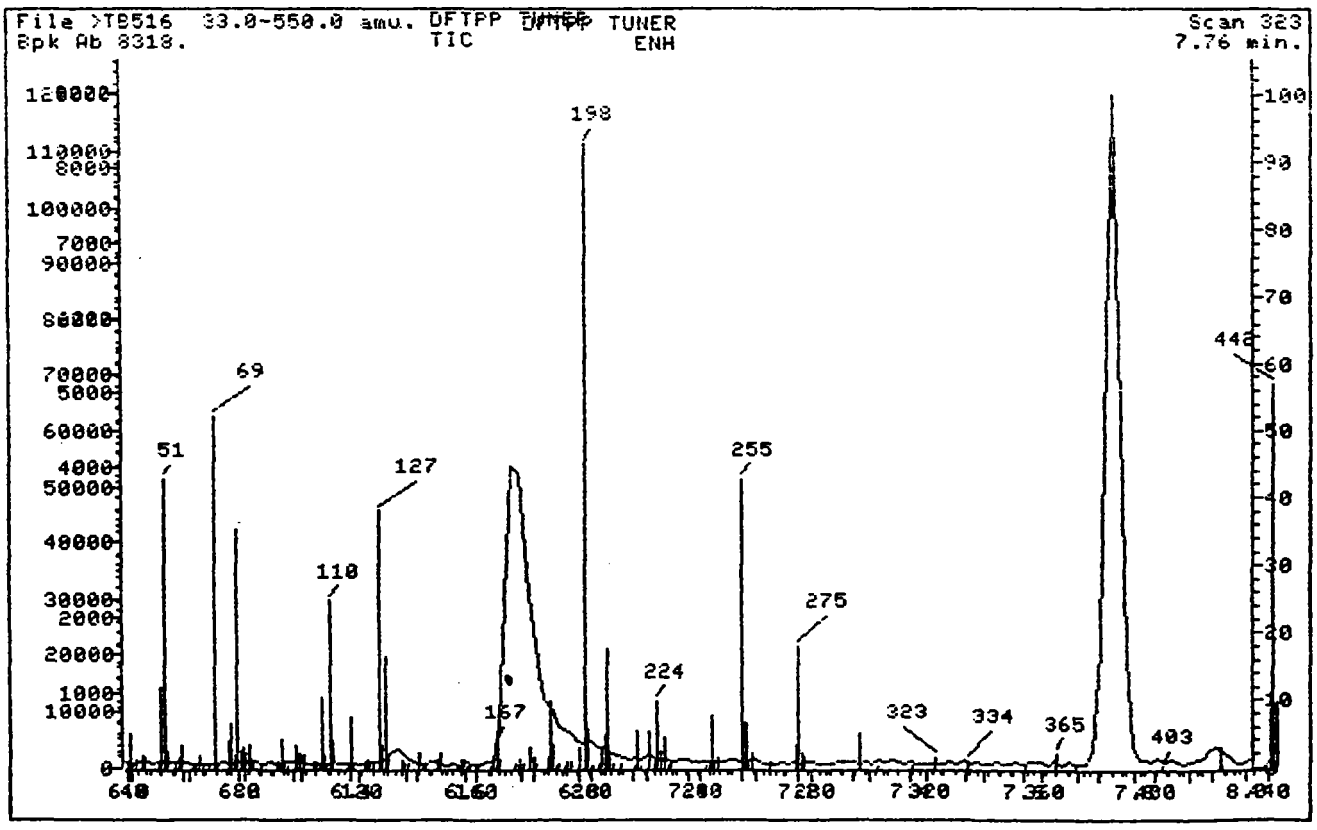
CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	46.05	46.05	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	56.25	56.25	Ok
70	Less than 2% of mass 69	.16	.29	Ok
127	40-60% of mass 198	41.04	41.04	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.17	6.17	Ok
275	10-30% of mass 198	19.52	19.52	Ok
365	Greater than 1% of mass 198	2.22	2.22	Ok
441	0-100% of mass 443	9.35	87.61	Ok
442	Greater than 40% of mass 198	61.39	61.39	Ok
443	17-23% of mass 442	10.68	17.39	Ok

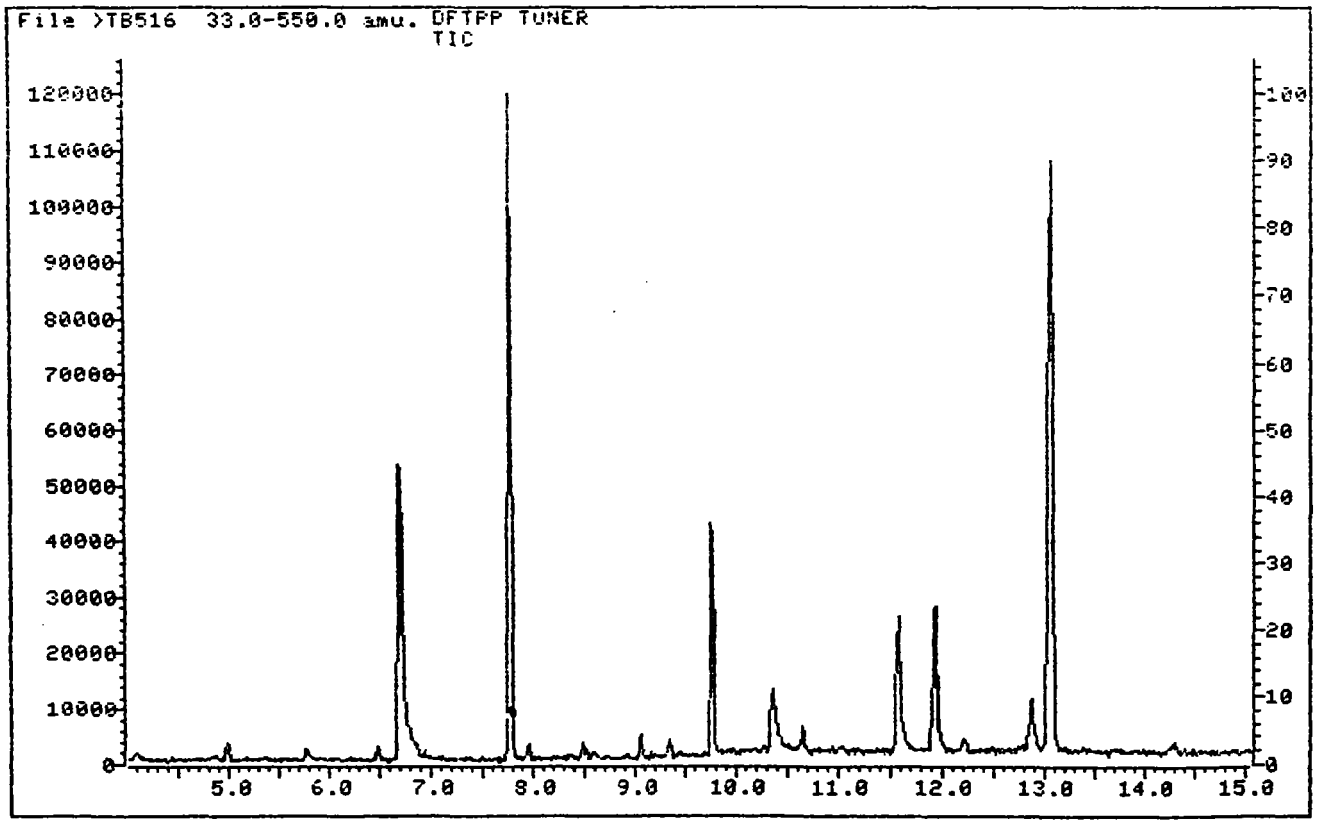
Injection Date: 05/25/94
Injection Time: 11:55
Data File: >T8516
Scan: 323



>TB516 DFTPP TUNER
323 NRM BIG ENH

File: >TB516 Scan #: 323 Retn. time: 7.76

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.90	.805	80.10	2.258	127.00	41.035	186.05	10.642	243.25	.661
39.10	5.386	81.00	3.311	128.00	3.332	187.00	3.361	244.05	8.225
41.05	1.099	82.00	.774	129.00	17.667	192.00	.777	246.05	1.536
43.05	1.940	83.10	.640	130.00	1.380	193.00	.974	255.00	46.161
44.25	1.366	85.95	.529	134.95	1.257	196.10	3.017	256.10	6.999
50.05	12.741	91.05	.851	136.95	.611	197.95	100.000	258.00	2.294
51.05	46.053	92.95	4.520	141.05	2.229	198.95	6.174	265.00	.861
52.00	2.551	98.00	3.556	141.90	.587	204.05	2.842	274.05	3.602
55.00	.695	99.10	2.145	147.10	1.048	205.05	5.011	275.05	19.519
56.00	1.637	101.00	1.736	148.00	2.049	206.05	18.970	276.05	2.190
57.00	3.318	104.10	.709	154.95	1.080	207.05	2.510	277.00	1.481
63.05	1.695	105.00	.741	156.05	1.161	208.05	.661	296.05	5.525
64.95	.683	107.00	11.236	167.10	4.085	211.10	.683	323.10	1.606
68.95	56.255	107.95	1.697	168.10	1.041	217.00	5.602	334.05	.998
74.00	4.256	110.05	26.703	175.10	1.209	221.05	5.595	365.05	2.219
75.00	6.937	111.05	4.188	176.95	.613	223.05	1.147	372.10	.666
76.00	1.880	117.05	7.975	178.95	3.181	224.05	10.651	423.05	3.246
77.00	37.854	122.10	.851	180.05	1.673	225.05	2.635	441.10	9.353
78.10	2.611	123.00	1.250	180.95	.659	227.05	4.672	442.10	61.388
79.00	3.135	125.00	.541	185.05	1.380	229.05	.952	443.10	10.675



:RU,TUNER,=DFTPP

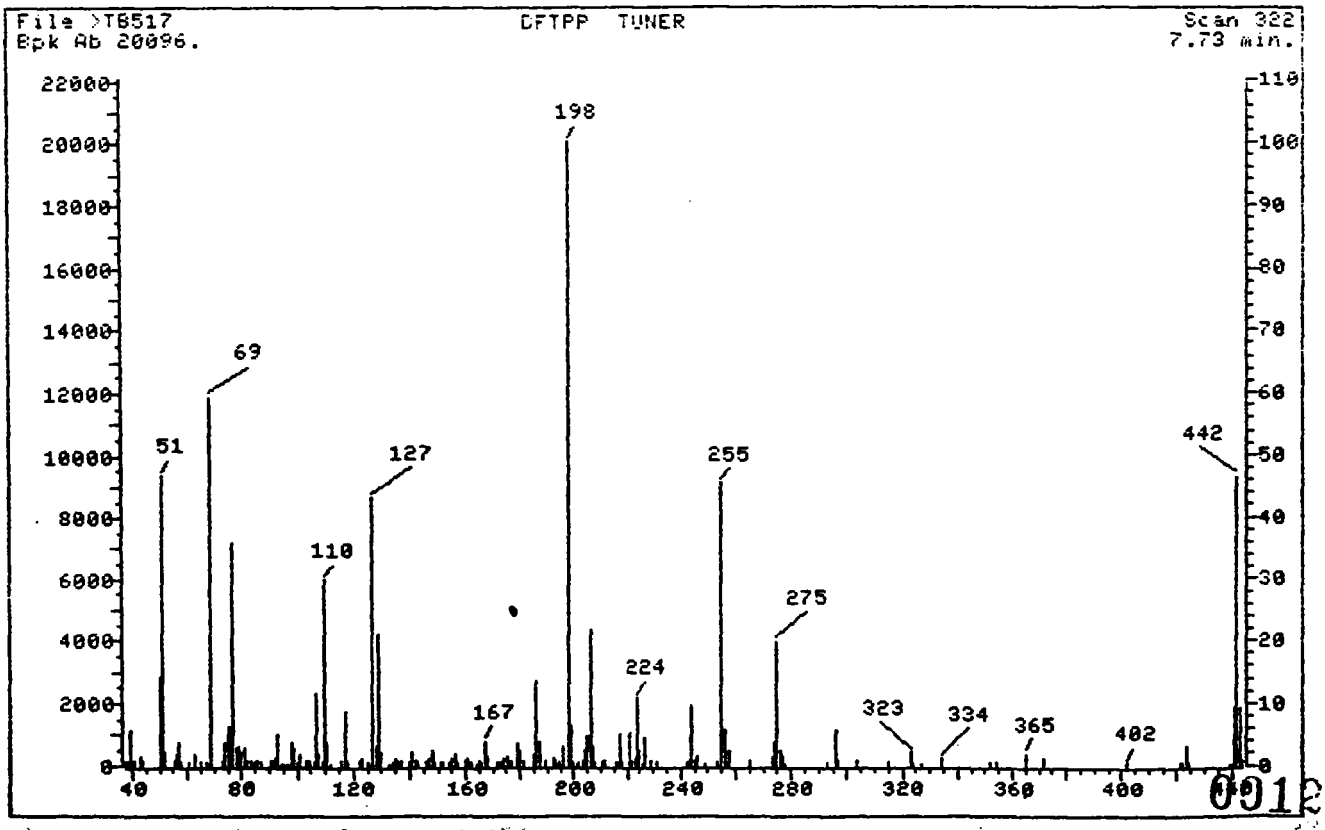
GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	46.65	46.65	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	59.17	59.17	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	43.03	43.03	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.51	6.51	Ok
275	10-30% of mass 198	19.77	19.77	Ok
365	Greater than 1% of mass 198	1.91	1.91	Ok
441	0-100% of mass 443	9.18	99.25	Ok
442	Greater than 40% of mass 198	46.40	46.40	Ok
443	17-23% of mass 442	9.25	19.92	Ok

Injection Date: 05/26/94
Injection Time: 10:58
Data File: >TB517
Scan: 322

:RU,AL,,1



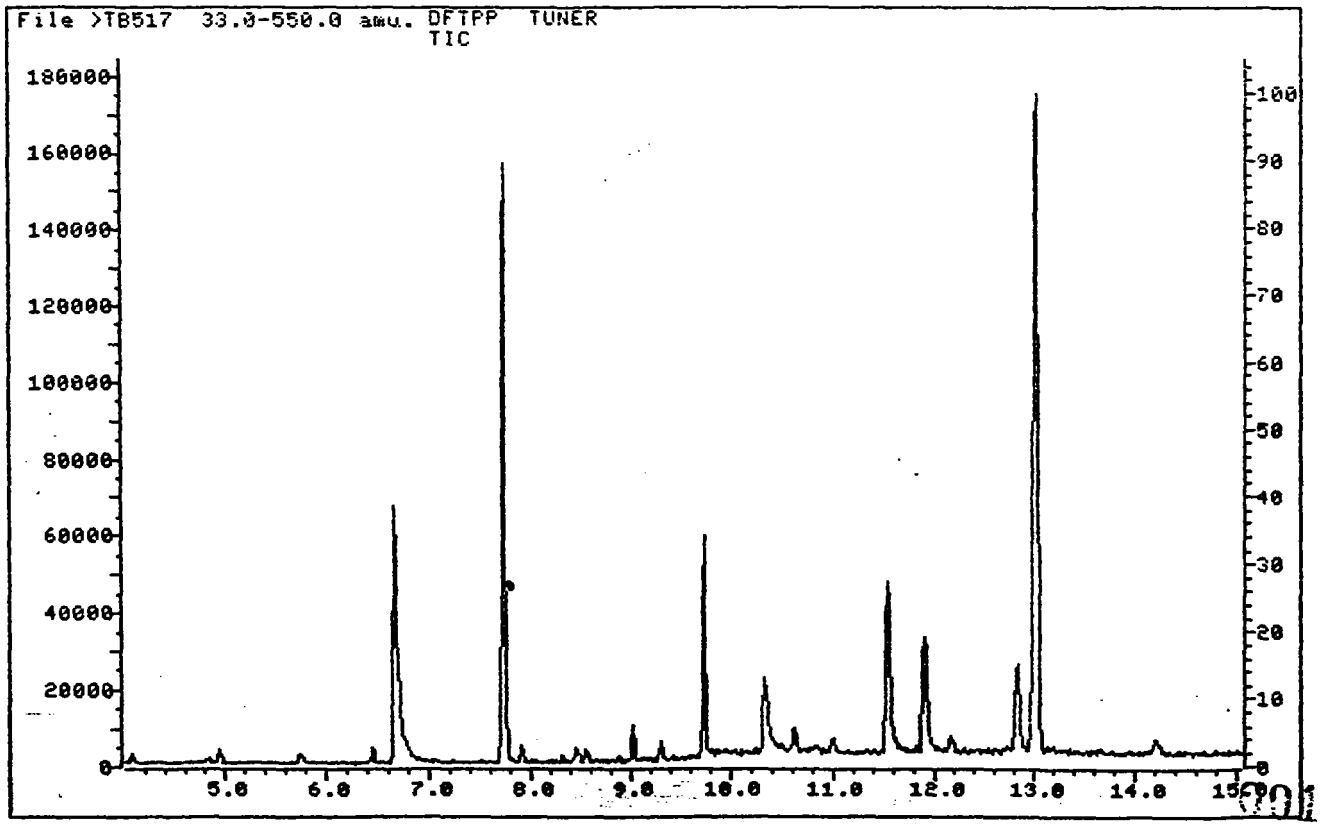
:RU,NRM,100
:RU,BIG,100
:RU,TAB

>TB517 DFTPP TUNER
322 NRM BIG

File: >TB517 Scan #: 322 Retn. time: 7.73

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.10	.980	82.00	.911	135.05	1.353	191.55	1.105	245.05	.985
39.10	5.877	85.95	1.015	141.00	2.314	192.95	.926	246.05	1.533
43.05	1.523	91.05	.886	142.10	.906	196.05	3.035	255.00	45.258
43.95	.881	92.05	1.040	147.00	1.135	197.95	100.000	256.00	5.757
50.00	14.028	93.05	5.066	148.00	2.418	199.05	6.514	257.95	2.379
51.00	46.646	98.00	3.797	155.05	1.269	204.00	2.453	273.00	1.493
52.00	2.085	99.00	2.727	156.05	1.926	205.00	4.812	274.00	3.852
55.10	1.005	101.00	1.732	160.00	.950	206.00	21.542	275.00	19.770
56.00	1.836	104.00	.841	161.00	1.055	207.00	3.220	276.00	2.354
57.00	3.742	106.95	11.505	164.90	.886	211.10	.911	277.00	1.488
63.05	1.811	107.95	1.826	167.00	3.896	216.95	5.200	296.00	5.747
68.95	53.171	109.95	29.702	168.00	1.597	221.05	5.489	323.05	2.100
74.00	3.662	110.95	3.662	174.05	1.070	221.85	.950	334.00	1.120
75.00	6.419	117.00	8.519	175.05	1.667	222.95	1.249	365.00	1.911
76.00	2.359	122.10	.980	177.05	.866	224.05	10.942	372.05	1.060
77.10	36.082	123.00	1.115	178.95	3.389	225.00	2.528	423.00	3.065
78.10	2.886	126.95	43.033	180.05	2.473	227.00	4.279	441.05	9.176
79.00	3.185	128.05	3.239	185.00	1.776	229.00	.975	442.05	46.402
80.00	2.219	128.95	21.074	186.00	13.545	243.05	.876	443.00	9.246
81.00	2.966	129.95	2.000	187.00	3.652	244.05	8.634	444.00	.921

:RU,AL,,1



SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

LAB FILE ID (STANDARD): V8704

DATE ANALYZED: 5/25/94

INSTRUMENT ID: #102

COLUMN: DB-5 CAP

TIME ANALYZED: 13:34

MATRIX:

LEVEL (low/med):

	IS1 (DBC) AREA *	RT	IS2 (NPT) AREA *	RT	S3I (ANT) AREA *	RT	IS4 (PHN) AREA *	RT	IS5 (CRY) AREA *	RT	IS6 (PRY) AREA *	RT
12 HOUR STD	63065	8.81	262413	11.44	156577	15.20	307263	18.42	204705	24.28	191316	29.55
UPPER LIMIT	126130	9.31	524826	11.94	313154	15.70	614526	18.92	409410	24.78	382632	30.05
LOWER LIMIT	31533	8.31	131207	10.94	78289	14.70	153632	17.92	102353	23.78	95658	29.05
FMS SAMPLE *												
1. BLK242.6	70428	8.80	288087	11.43	183391	15.20	309625	18.42	170843	24.28	147866	29.56
2. C156878	62269	8.80	260385	11.43	168099	15.19	288961	18.41	140197	24.27	125703	29.58
3. C156879	65367	8.80	274303	11.42	178564	15.19	287437	18.41	192818	24.26	176803	29.54
4. C156876	65151	8.82	245854	11.44	148520	15.21	234810	18.43	123976	24.31	110893	29.66
5. C156877	63183	8.81	252208	11.44	162896	15.21	255528	18.43	132408	24.31	123097	29.65
6. C156881	64484	8.80	282407	11.43	171761	15.20	275957	18.42	158872	24.31	153338	29.64
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												

IS1 (DBC) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = +100% of internal standard area.

LOWER LIMIT = -50% of internal standard area.

* Column used to flag internal standard area values with an asterick.

CK1077.R6

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

001234

LAB FILE ID (STANDARD): VB705

DATE ANALYZED: 5/26/94 INSTRUMENT ID: #102 COLUMN: DB-5 CAP

TIME ANALYZED: 11:23 MATRIX: LEVEL (low/med):

	IS1 (DBC) AREA *	RT	IS2 (NPT) AREA *	RT	S3I (ANT) AREA *	RT	IS4 (PHN) AREA *	RT	IS5 (CRY) AREA *	RT	IS6 (PRY) AREA *	RT
12 HOUR STD	66595	8.28	277024	11.40	158711	15.17	335065	18.38	205528	24.25	183445	29.48
UPPER LIMIT	133190	9.28	554048	11.90	317422	15.67	670130	18.88	411056	24.75	366890	29.98
LOWER LIMIT	33298	8.28	138512	10.90	79356	14.67	167533	17.88	102764	23.75	91723	28.98
BMS SAMPLE *												
1. BLK 249-3	66049	8.26	279975	11.39	165571	15.16	302655	18.37	185356	24.24	166651	29.49
2. C156882	67592	8.26	273915	11.39	179062	15.16	308226	18.36	180493	24.23	135013	29.49
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												

IS1 (DBC) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

* Column used to flag internal standard area values with an asterick.

*CK1077.R6

HQ 5/26/94

QUANT REPORT

Operator ID: HAIMAN
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Date:

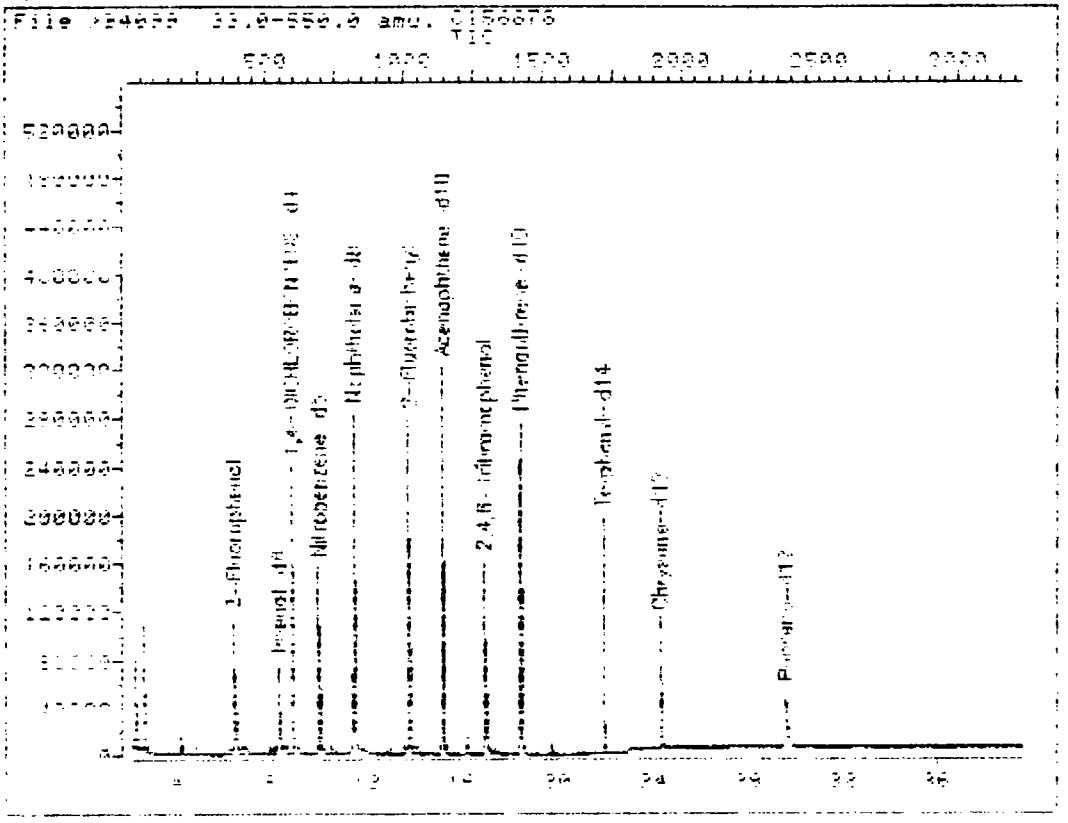
Quant Rev: 7
Quant Time: 940525 16:19
Injected at: 940525 15:37
Dilution Factor: 1.00000
Instrument ID: MSD100
PTL# 1

ID File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #100
Last Calibration: 940324 09:57
Last Qcal Time: 940525 17:34

	Compound	R.T.	Q.Ion	Area	Conc.	Units	Q
1)	*1,4-Dichlorobenzene-d4	8.00	152.0	60269	40.00	UG/L	97
2)	2-Fluorophenol	6.34	112.0	65404	36.85	UG/L	72
3)	Phenol-d6	8.26	99.0	71167	39.76	UG/L	97
4)	*Naphthalene-d8	11.43	136.0	260395	40.00	UG/L	94
5)	Nitrobenzene-d5	9.94	99.0	96750	5.71	UG/L	99
6)	Naphthalene	11.46	128.0	3995	2.23	UG/L BDL	100
7)	*Acenaphthene-d10	15.19	164.0	149099	40.00	UG/L	100
8)	2-Fluorobiphenyl	13.74	172.0	195415	40.83	UG/L	94
9)	2,4,6-Tribromophenol	16.83	329.0	79450	44.40	UG/L	100
10)	*Phenanthrene-d10	17.41	188.0	299961	40.00	UG/L	100
11)	Dibutylphthalate	19.73	149.0	8754	1.15	UG/L BDL	83
12)	*Chrysene-d12	24.27	240.0	140197	40.00	UG/L	100
13)	Terphenyl-d14	21.99	244.0	174613	44.90	UG/L	100
14)	*Perylene-d12	28.59	264.0	125703M	40.00	UG/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: [illegible]
Name: [illegible]
Mode:

Quant Output File: [illegible]
Instrument ID: [illegible]

STL# 1

Id File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #[illegible]
Last Calibration: [illegible]
Last Cal Time: 940525 17:34

Operator ID: HAIYAN
Quant Time : 940525 16:18
Injected at: 940525 15:37

Misc :
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 1 BTL# 1 Equip ID: MSD102
Method file: BNA1M Tuning file: DFTTT No. of extra records: 2
Source temp.: N/A Analyzer temp : N/A Transfer line temp. : 0

Chromatographic temperatures : 40. 280. 0. 0. 0.
Chromatographic times, min. : 3.0 14.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 12.0 0.0 0.0 .5 0.0

>84099 C154878
33.01 550.0 CLP TIC
Upslope: .2000 Area Reject: 28899. Max Peaks: 6 Bunch: 1 Valley >100 %
Onslope: 0.0000 Results File IR4099 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	2.25	22	24	27	73006	118516	92336	54.37	22.365
2	2.61	51	55	59	102307	192137	163813	100.00	39.678
3	6.85	416	420	424	14733	44869	31060	18.96	7.523
4	8.52	562	564	575	18360	64427	42776	26.11	10.361
5	16.16	1217	1221	1226	26371	58574	45844	27.99	11.104
6	18.53	1423	1425	1436	11540	44913	37030	22.61	8.969

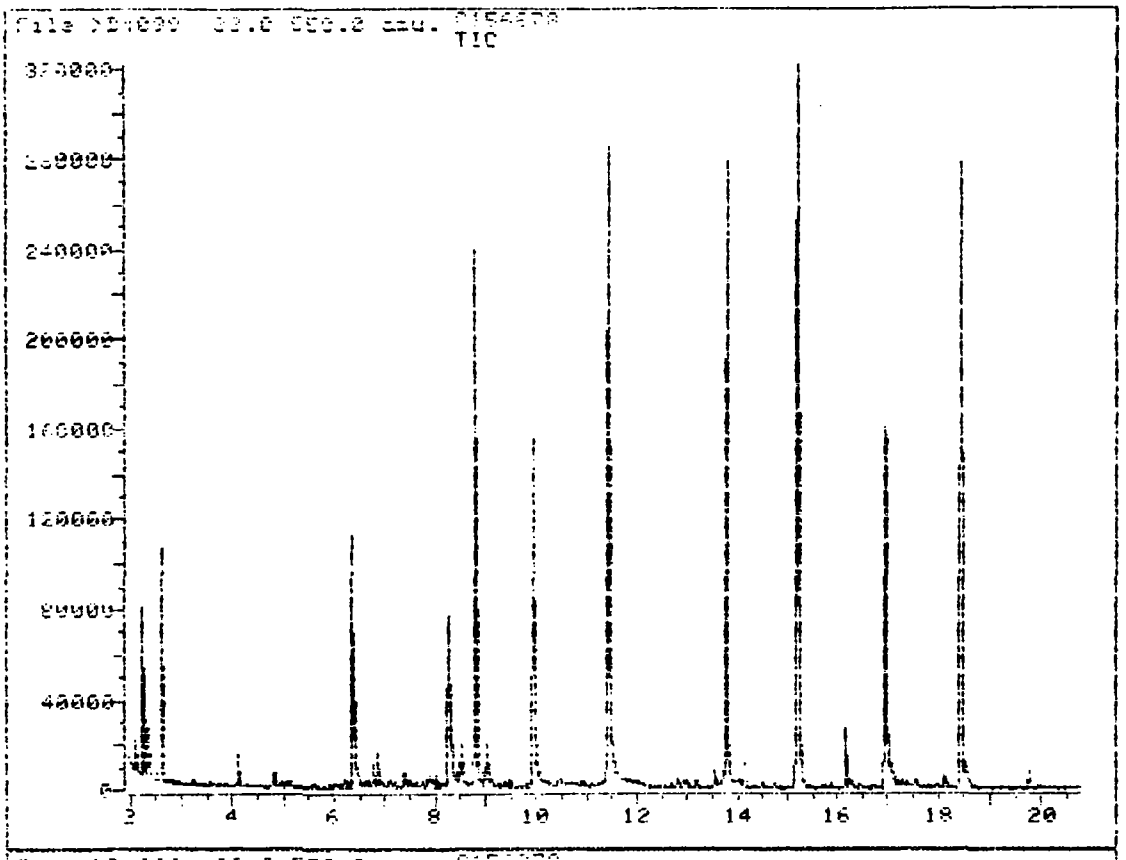
Sum of corrected areas: 412859

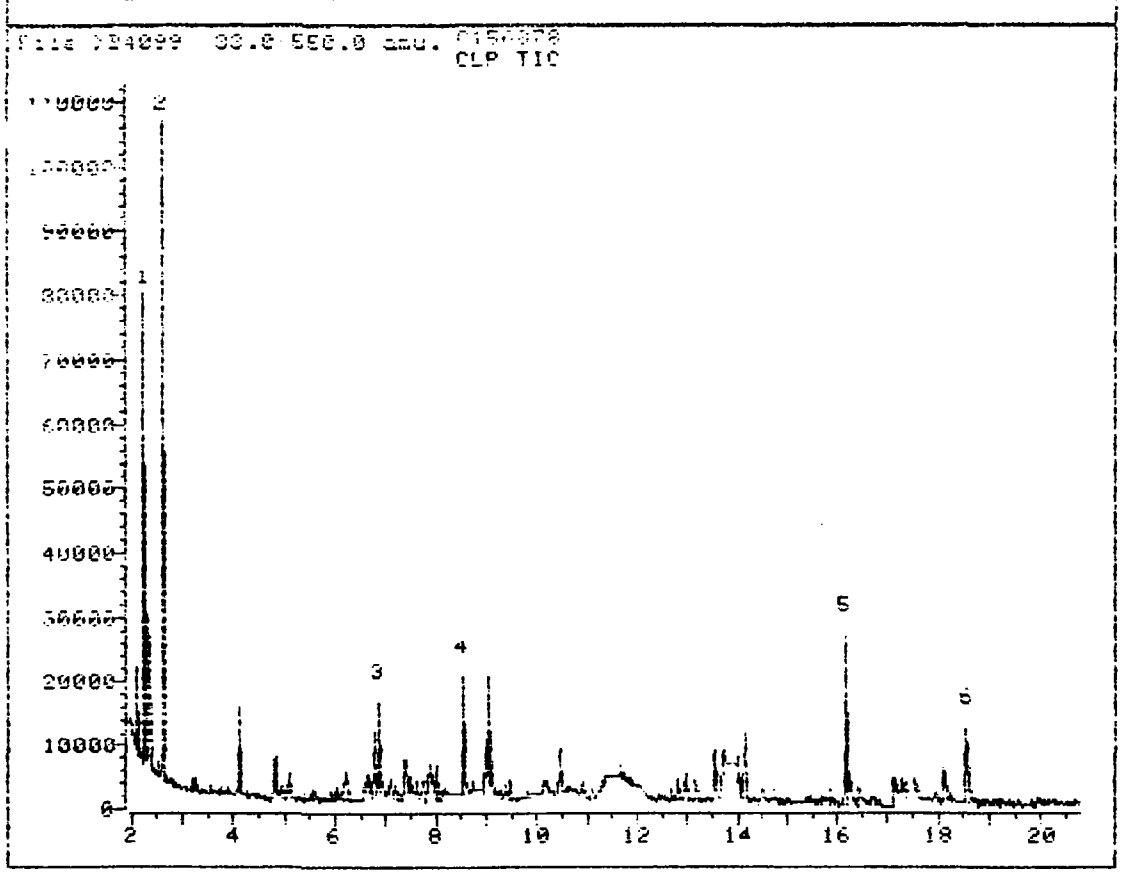
Summary of Unknowns RPM Library Search and Quantitation

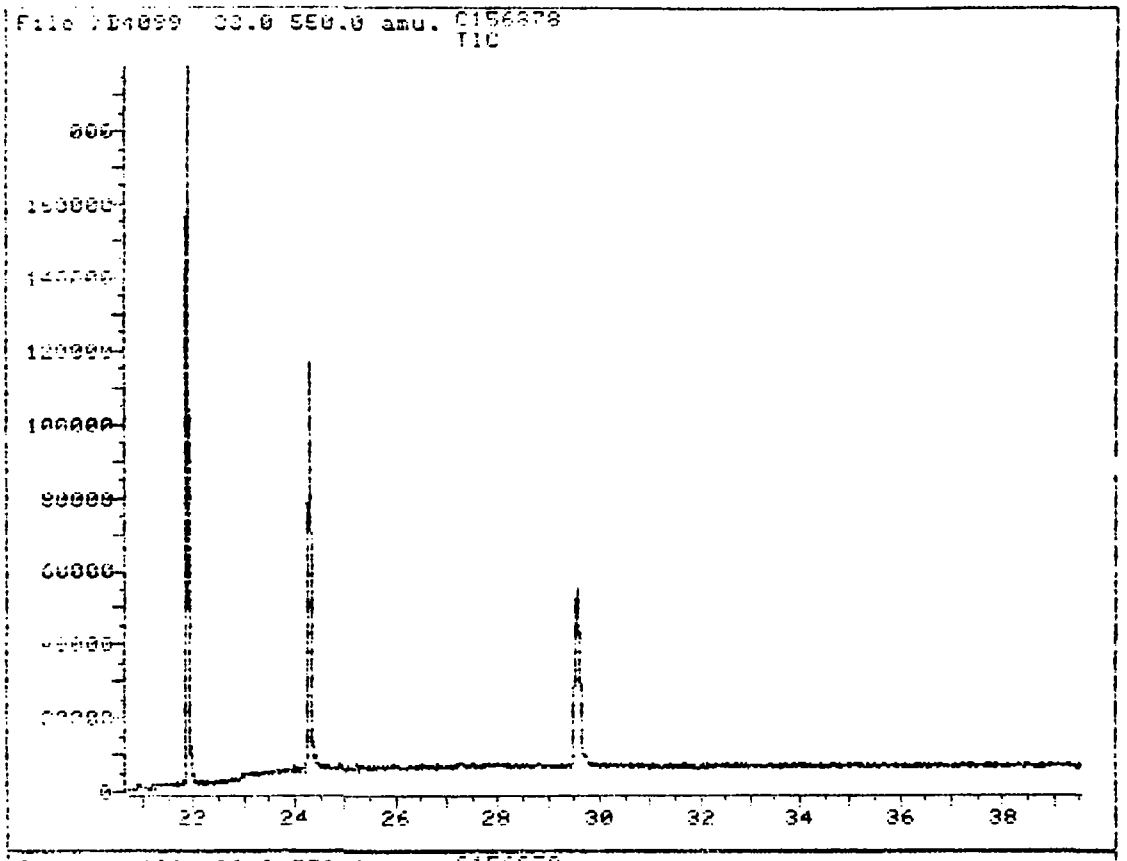
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	414744.	8.80	2.00 - 10.12
2	40.0	596488	11.43	10.12 - 13.31
3	40.0	768356.	15.19	13.31 - 16.80
4	40.0	498555	18.41	16.80 - 21.34
5	40.0	381667.	24.27	21.34 - 26.92
6	40.0	288985.	29.58	26.92 - 39.53

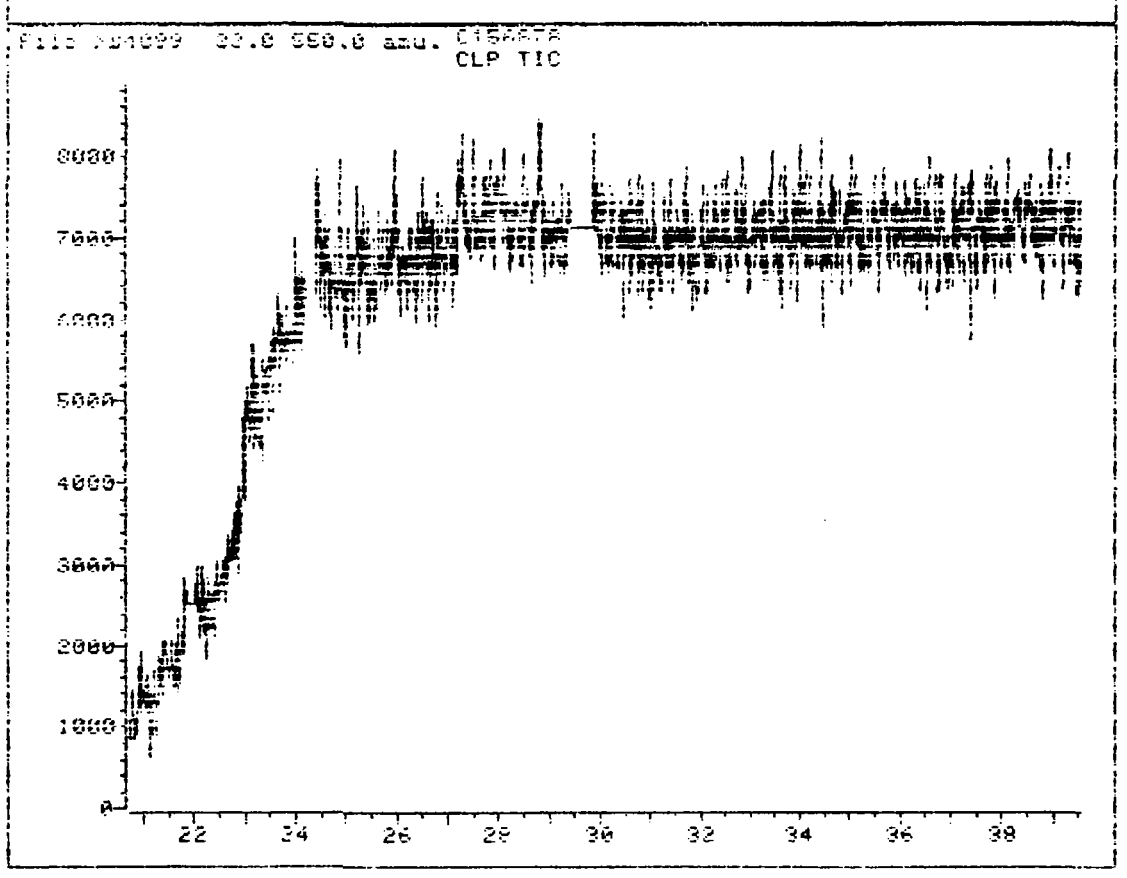
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

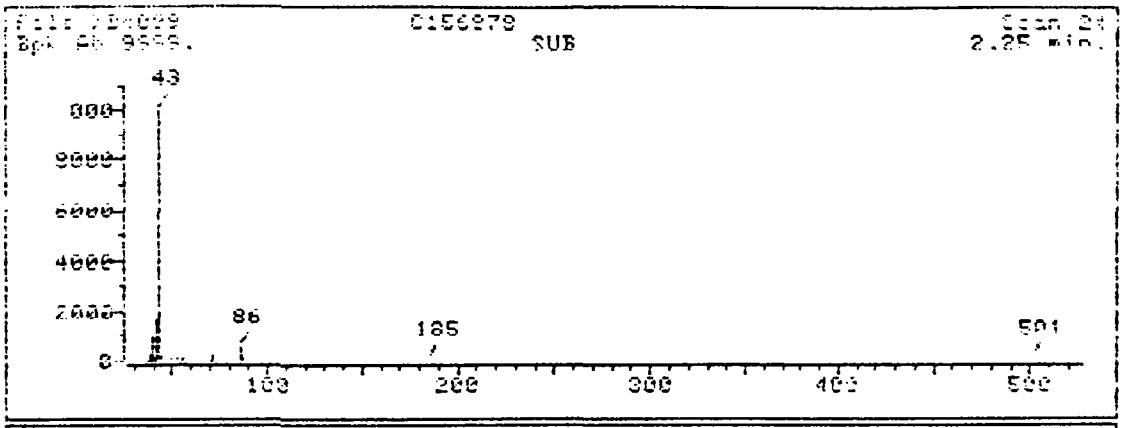
9:06 AM THU., 26 MAY , 1994

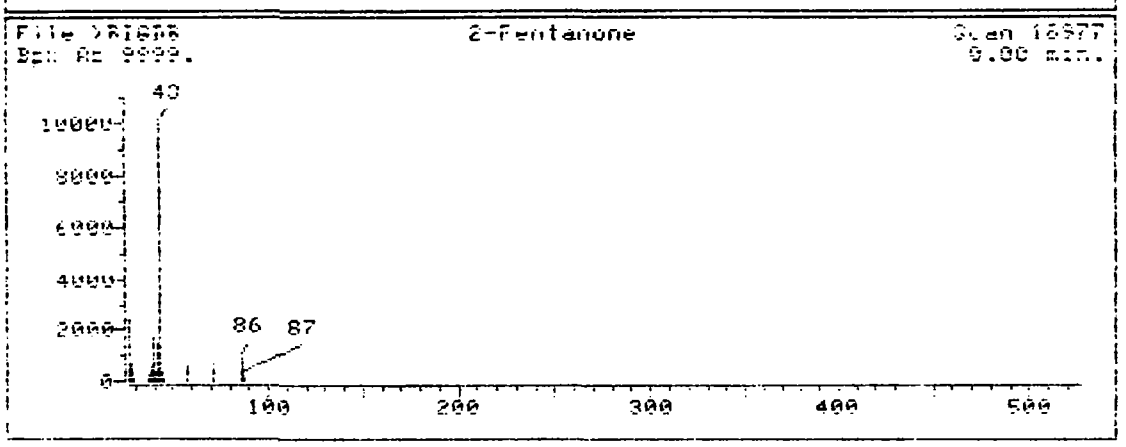

TIC
280000
240000
200000
160000
120000
80000
40000
0
2
4
6
8
10
12
14
16
18
20


CLP TIC
1
2
3
4
5
6
60000
50000
40000
30000
20000
10000
0
2
4
6
8
10
12
14
16
18
20


File >D4099 33.0 550.0 amu. C156878
TIC
100000
80000
60000
0
22
24
26
28
30
32
34
36
38


File >D4099 33.0 550.0 amu. C156878
CLP TIC
8000
7000
5000
4000
3000
2000
1000
0
22
24
26
28
30
32
34
36
38





Bor HG 6/2/94

UNKNOWN #,1

ST = 2.25 AREA = 92336.00 RESPONSE FACTOR IS 8.90

DATA FILE: >B4099::D7 DATE/TIME: 5/25/94 15:37 MASS SPEC # 1

1. 2 Pentanone 86 C5H10O

Sample file: >B4099 Spectrum #: 24

Search specd: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IU
1.	15*	107879	18977	"B1888	21	40	1	0	75	58	3	14

001240

HQ 5/26/94

QUANT REPORT

Operator ID: HAIYAN
Output File: 984100::D5
Data File: 984100::D7
Name: C154979
Misc:

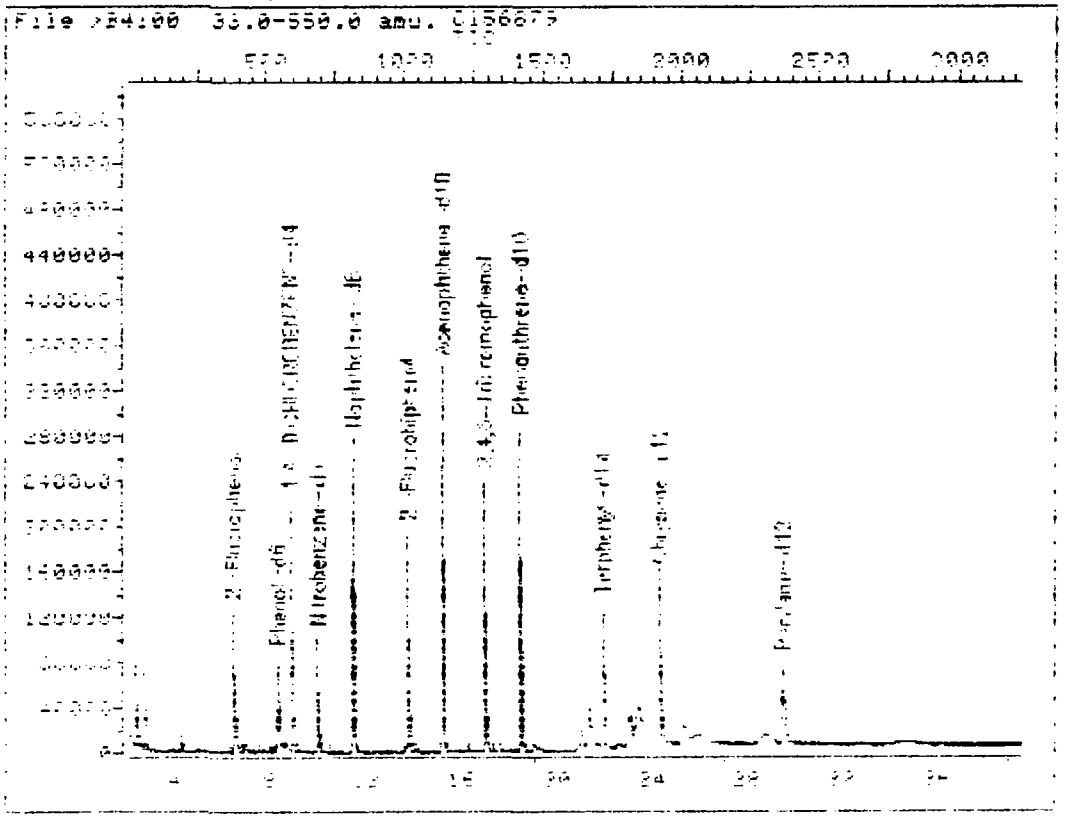
Quant Rev: 7
Quant Time: 940525 17:06
Injected at: 940525 16:24
Dilution Factor: 1.00000
Instrument ID: MSD100
BTL# 2

ID File: IDSW01::D6
Title: SEMI-VOLATILES ID FILE - INST #102
Last Calibration: 940324 08:57
Last Qual Time: 940525 13:34

	Compound	R.T.	Q.ion	Area	Conc.	Units	n
1)	*1,4-DICHLOROBENZENE-d4	9.80	152.0	65307	40.00	UG/L	95
4)	2-Fluorophenol	6.36	112.0	83936	45.03	UG/L	93
10)	Phenol-d6	9.25	99.0	93664	32.57	UG/L	93
12)	*Naphthalene-d8	11.40	136.0	274303	40.00	UG/L	96
20)	Nitrobenzene-d5	9.94	99.0	67167	24.19	UG/L	97
33)	*Acenaphthene-d10	15.19	164.0	179564	40.00	UG/L	100
35)	2-Fluorobiphenyl	13.76	172.0	144403	39.76	UG/L	97
56)	2,4,6-Trichlorophenol	16.90	300.0	107129	57.19	UG/L	100
57)	*Phenanthrene-d10	16.41	188.0	227437	40.00	UG/L	100
75)	*Chrysene-d12	24.96	240.0	192818	40.00	UG/L	100
91)	bis(2-Ethylhexyl)phthalate	24.74	149.0	4999	1.49	UG/L BDL	91
93)	Terphenyl-d14	21.99	244.0	109403	20.49	UG/L	100
94)	*Perylene-d12	29.54	264.0	176803	40.00	UG/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B4100::D7 Quant Output File: ^B4100::D5

Name: C156679 Instrument ID: MS2100

Misc: BTL# 2

[illegible]

[illegible] #102

Last Calibration: 940324 09:57 Last Qual Time: 940525 13:34

Operator ID: HAIYAN

Quant Time : 940525 17:06

Injected at: 940525 16:24

Method file: BNA1M Tuning file: DFT1T No. of extra records: 2
Source temp.: N/A Analyzer temp : N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	0.	0.	0.
Chromatographic times, min. :	3.0	14.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	.5	0.0

>B4100 C156879
33.01 550.0 CLP TIC
Upslope: .2000 Area Reject: 42375. Max Peaks: 8 Bunch: 1 Valley >100 %
Onslope: 0.0000 Results File IB4100 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	2.27	22	25	30	76277	154622	109941	20.69	7.264
2	2.62	52	55	59	67943	136591	109893	20.67	7.261
3	18.53	1421	1424	1433	13243	66564	46709	8.78	3.086
4	20.95	1621	1632	1633	18314	119386	~~84999~~ 19341	15.99	5.616
5	21.29	1645	1661	1684	53688	674848	531722	100.00	35.173
6	23.02	1793	1810	1822	35049	482790	367009	69.02	24.250
7	23.34	1823	1837	1838	28258	309072	462710 ~~[illegible]~~	~~[illegible]~~ 1.79	11.164
8	25.23	1985	1999	2000	15620	205255	320430 ~~[illegible]~~	~~[illegible]~~ 2.72	6.225

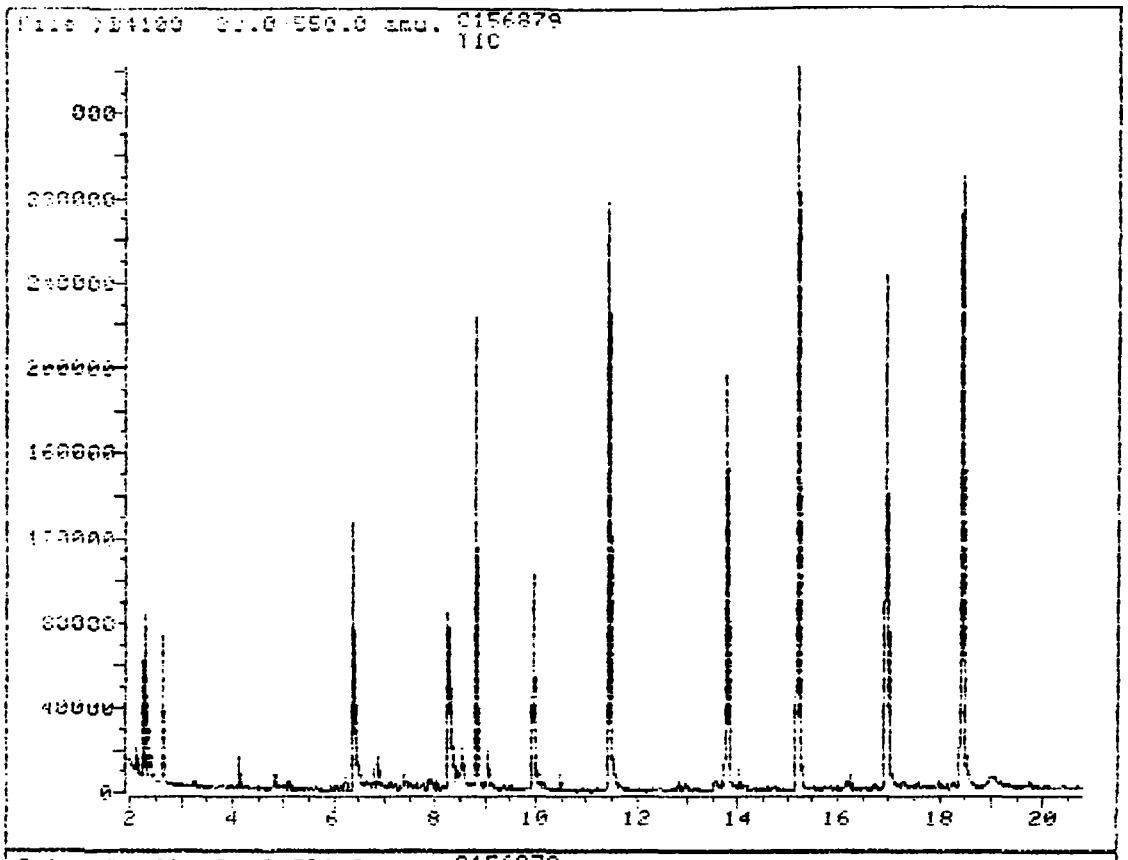
Sum of corrected areas: 1513440. See attached.

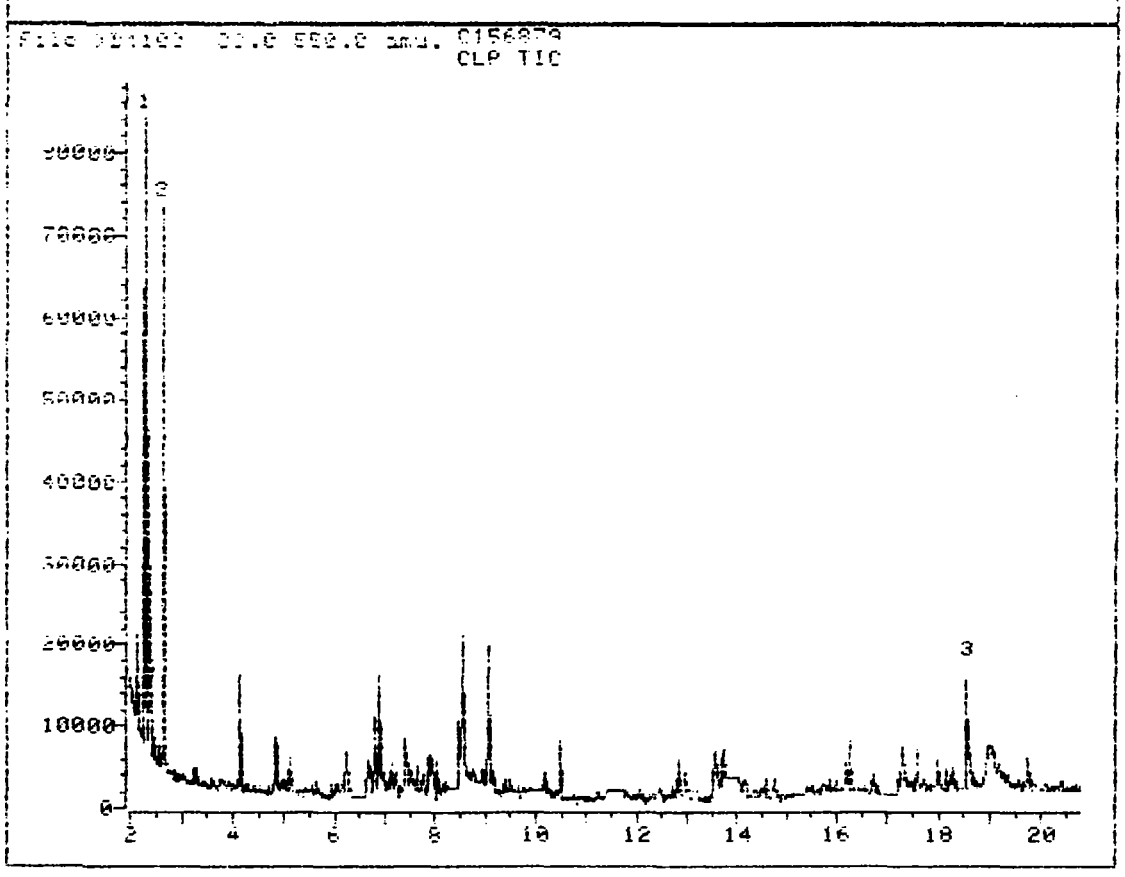
Summary of Unknowns PBM Library Search and Quantitation

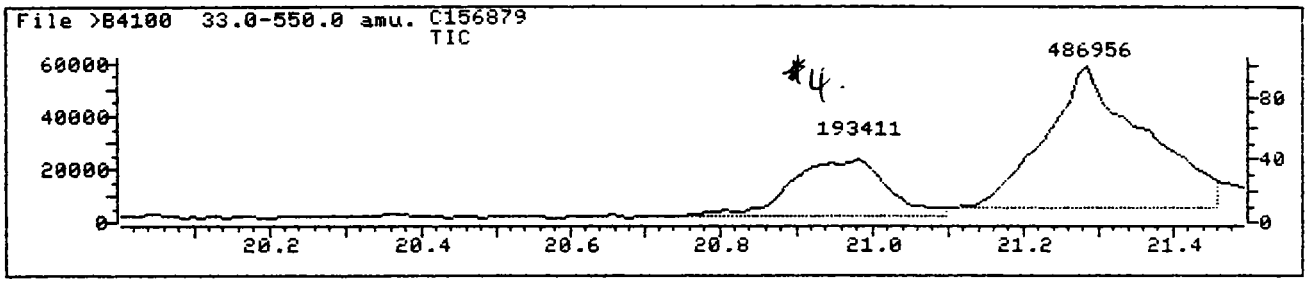
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	432506.	8.80	2.00 - 10.11
2	40.0	610771.	11.42	10.11 - 13.31
3	40.0	797313.	15.19	13.31 - 16.80
4	40.0	714995.	18.41	16.80 - 21.34
5	40.0	499723.	24.26	21.34 - 26.90
6	40.0	423753.	29.54	26.90 - 38.52

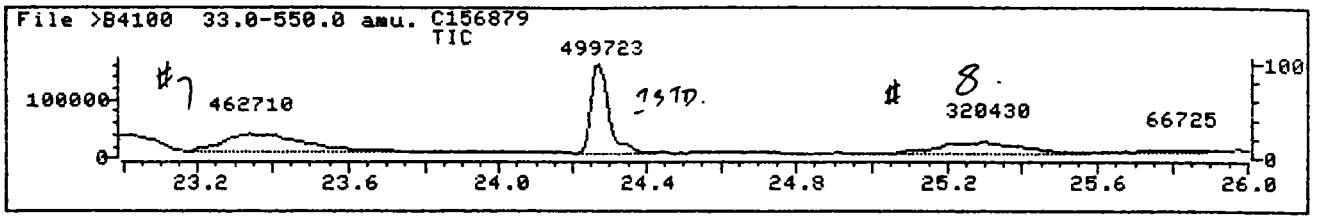
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

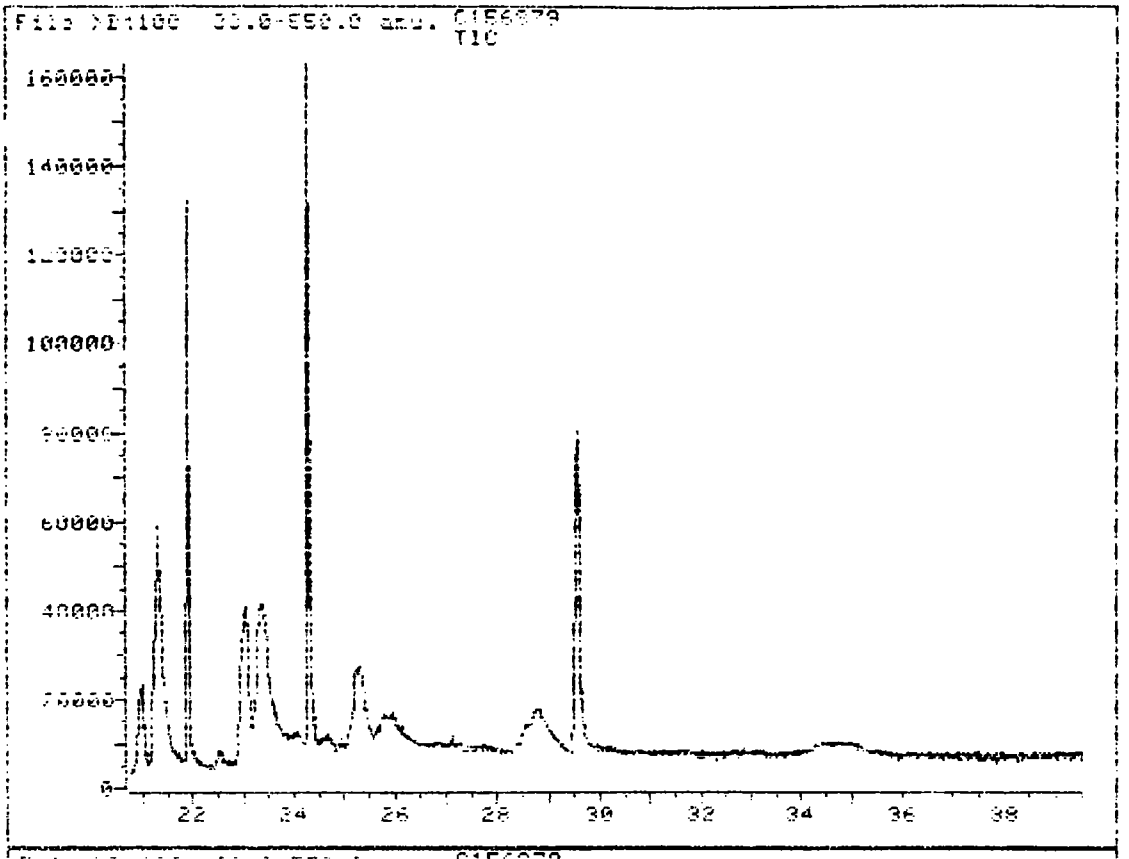
9:17 AM THU., 26 MAY , 1994

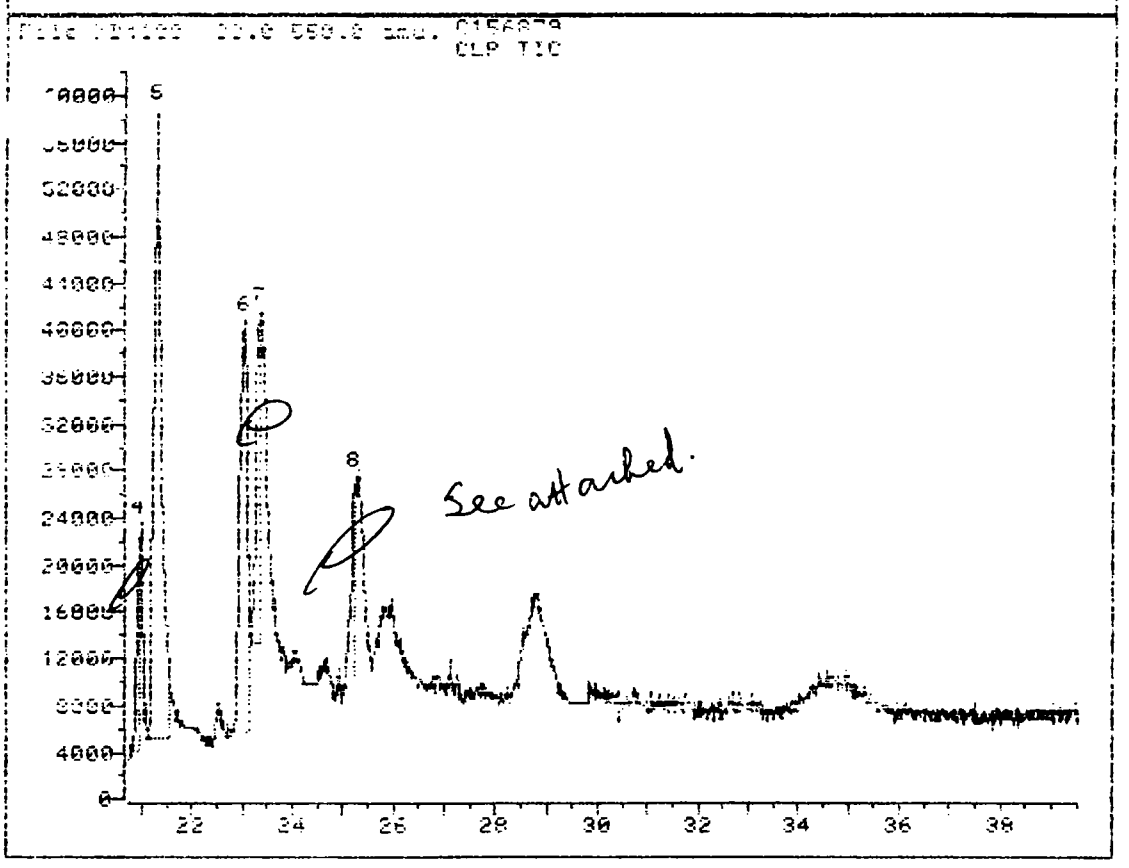

TIC
2
4
6
8
10
12
14
16
18
20

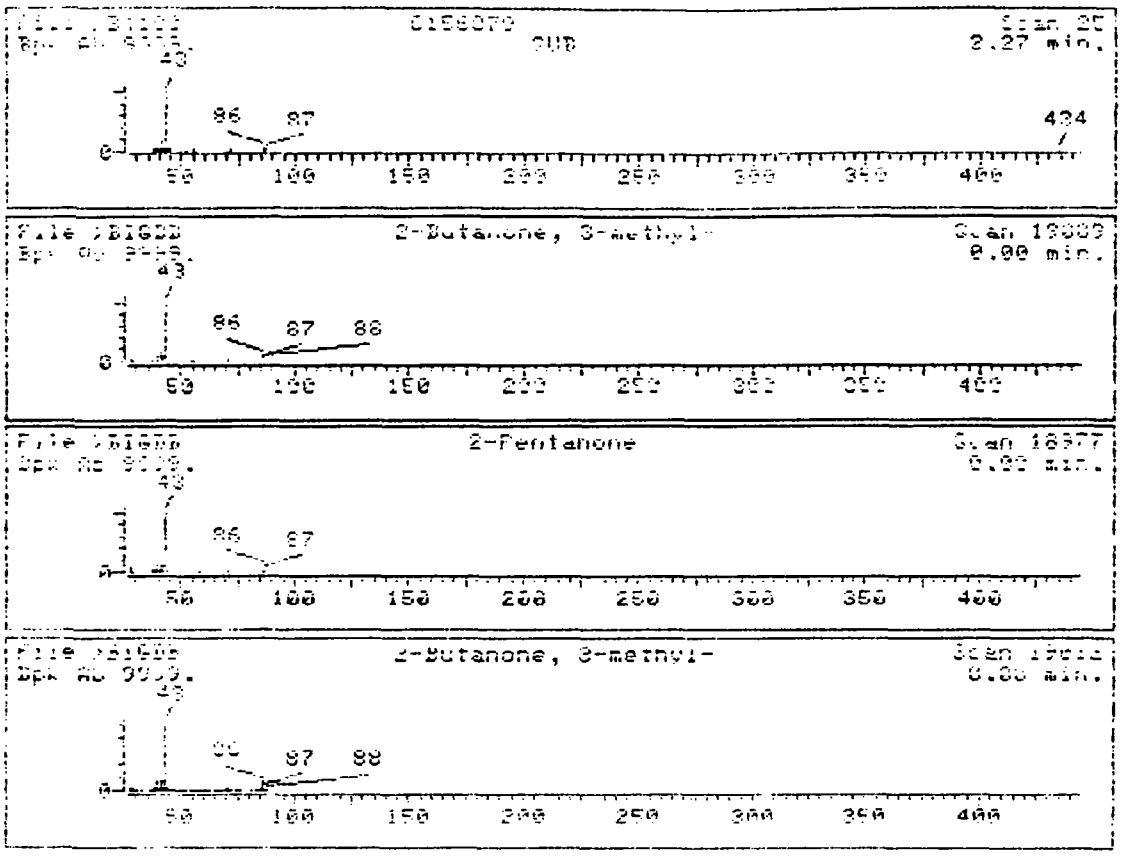

CLP TIC
1
2
3
10000
0
2
4
6
8
10
12
14
16
18
20


File >B4100 33.0-550.0 amu. C156879
TIC
60000
40000
20000
0
*4.
193411
486956
80
40
0
20.2
20.4
20.6
20.8
21.0
21.2
21.4


File >B4100 33.0-550.0 amu. C156879
TIC
499723
100000
0
#7
462710
1STD.
#
8.
320430
66725
100
0
23.2
23.6
24.0
24.4
24.8
25.2
25.6
26.0


File >D1100 35.0-550.0 amu. 0156879
TIC
160000
140000
120000
100000
80000
60000
40000
20000
0
22
24
26
28
30
32
34
36
38


File >D1100 35.0-550.0 amu. 0156879
CLP TIC
56000
52000
48000
44000
40000
36000
32000
28000
24000
20000
16000
12000
8000
4000
0
4
5
6
7
8
22
24
26
28
30
32
34
36
38
See attached.



HQ 6/2/94.

UNKNOWN # 1

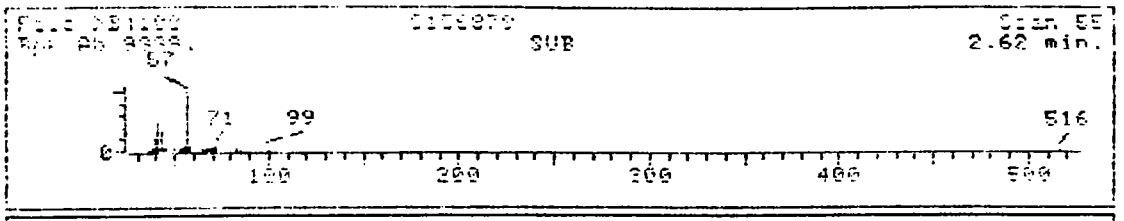
RT = 2.27 AREA = 109941 A RESPONSE FACTOR IS 10.00

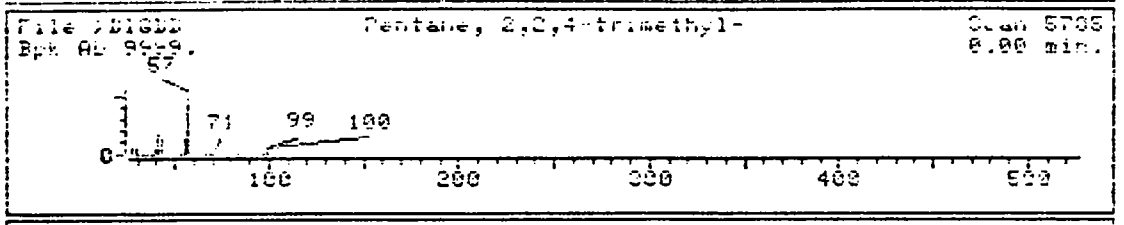
DATA FILE: 184100::D7 DATE/TIME: 5/25/94 16:24 MASS SPEC # 1

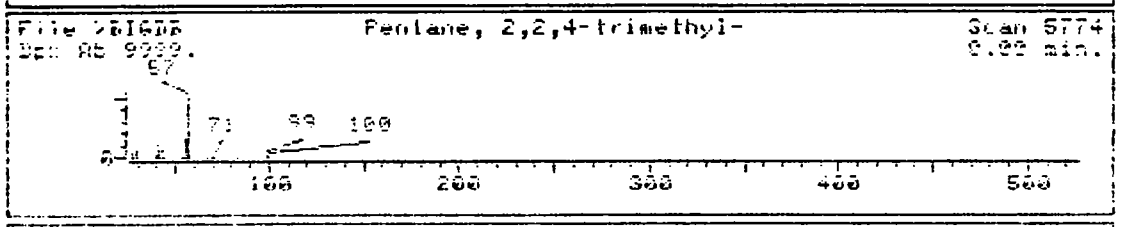
1. 2-Butanone, 4-methyl- 86 C5H10O
2. 2-Pentanone 86 C5H10O
3. 2-Butanone, 3-methyl- 86 C5H10O

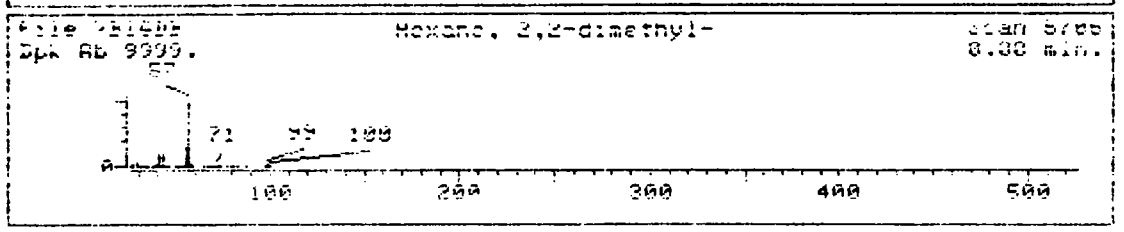
Sample File: 184100 Spectrum #: 25
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IN
1	31*	563804	19009	"BIGDB	27	39	0	0	50	41	8	19
2.	15*	107879	18977	"BIGDB	21	40	1	0	34	58	3	14
3.	11*	563804	19012	"BIGDB	24	34	1	0	37	42	2	14









AQ 6/2/94

UNKNOWN #,2

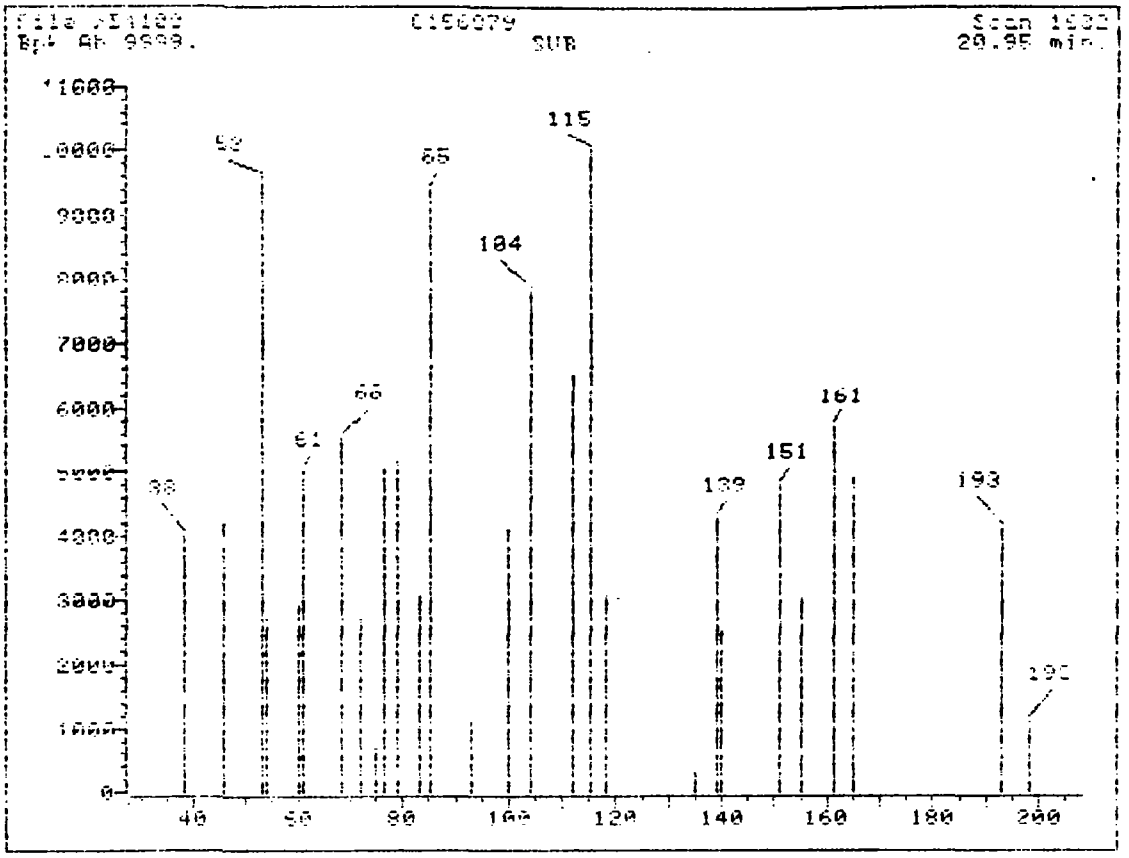
RT = 2.62 AREA = 109893.0 RESPONSE FACTOR IS 10.00

DATA FILE: >B4100::D7 DATE/TIME: 5/25/94 16:26 MASS SPEC # 1

1. Pentane, 2,2,4-trimethyl- 114 C8H18
2. Pentane, 2,2,4-trimethyl- 114 C8H18
3. Hexane, 2,2-dimethyl- 114 C8H18
4. Pentane, 2,2,4-trimethyl- 114 C8H18
5. Methane, isocyanato- 57 C2H3NO

Sample file: >B4100 Spectrum #: 55
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	76	540841	5705	"BIGDB	40	32	0	0	95	10	45	22
2.	70	540841	5774	"BIGDB	31	37	0	0	78	8	42	17
3.	60	590738	5706	"BIGDB	34	35	1	0	100	14	30	12
.	60	540841	5773	"BIGDB	35	39	1	0	100	12	30	13
.	60*	624839	5263	"BIGDB	23	41	1	0	70	14	30	14



Bo HO 6/2/94.

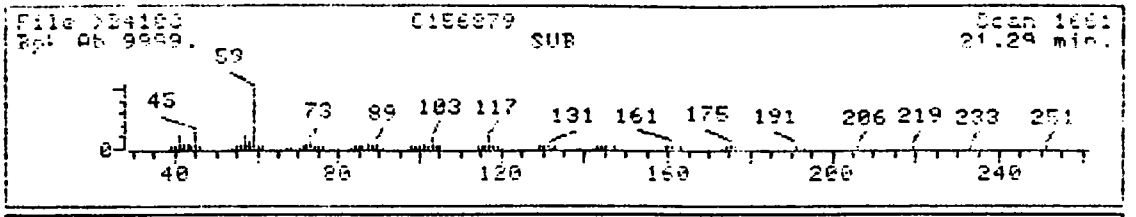
UNKNOWN #.4

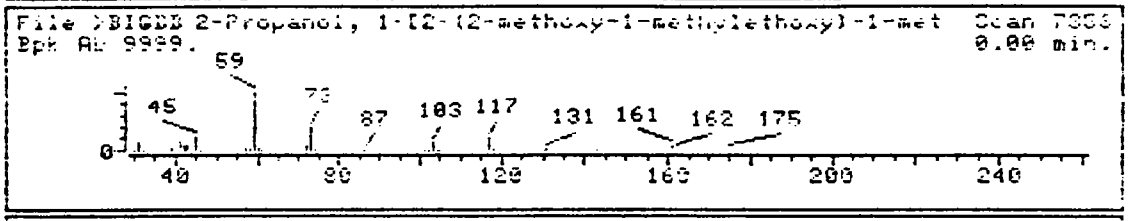
RT = 10.95 AREA = ~~84999.00~~ 193411 RESPONSE FACTOR IS ~~4.90~~ 10.80

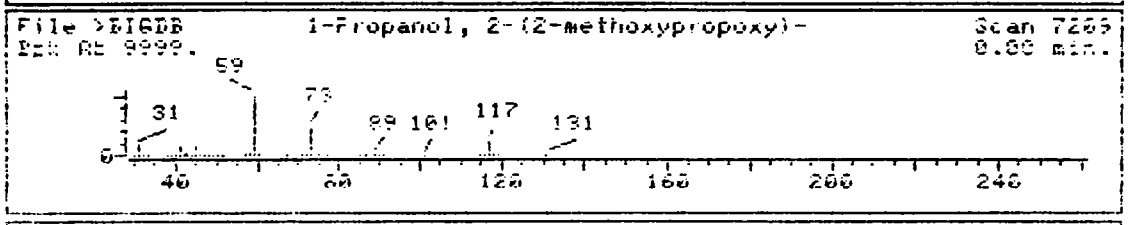
DATA FILE: >B4100::D2 DATE/TIME: 5/25/94 16:26 MASS SPEC # 1

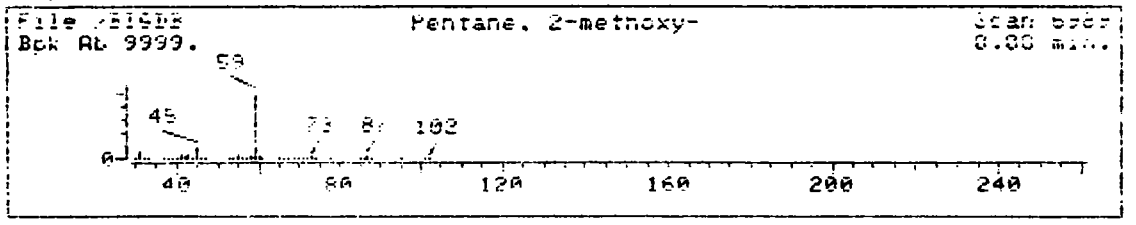
Sample file: >B4100 Spectrum #: 1632

No data base entries were retrieved.









40 6/2/94.

UNKNOWN #,5

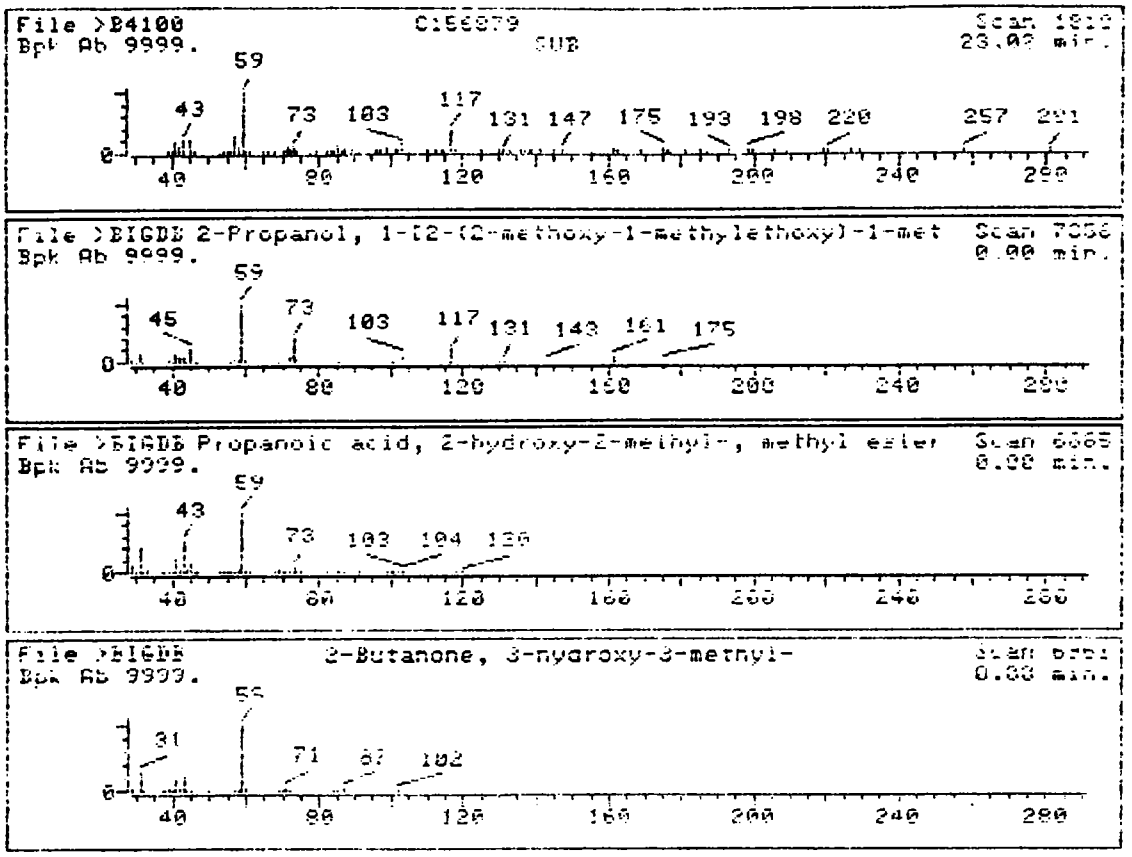
RT = 21.29 AREA = 571722 0 RESPONSE FACTOR IS 70.00

DATA FILE: >R4100::07 DATE/TIME: 5/25/94 14:26 MASS SPEC # 1

1. 2 Propanol, 1-[2-(2-methoxy-1-methylethoxy)-1-methyl ethoxy]- 206 C11H22O4
2. 1-Propanol, 2-(2-methoxypropoxy)- 148 C7H16O3
3. Pentane, 2-methoxy- 102 C6H14O
4. 2-Butanone, 3-hydroxy-3-methyl- 102 C5H10O2
5. 2-BUTANOL, 3-METHOXY- 104 C5H12O2

Sample file: >R4100 Spectrum #: 1661
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60	20324338	7356	"BIGDB	64	45	2	0	89	14	30	14
2.	48	13588289	7209	"BIGDB	51	37	1	0	80	25	17	19
.	34*	6795886	6989	"BIGDB	35	45	2	0	100	33	12	17
.	34*	115220	6960	"BIGDB	34	47	2	0	92	33	12	17
5.	34*	63778726	6891	"BIGDB	35	52	2	0	100	35	12	17



HR 6/2/94.

UNKNOWN: # 6

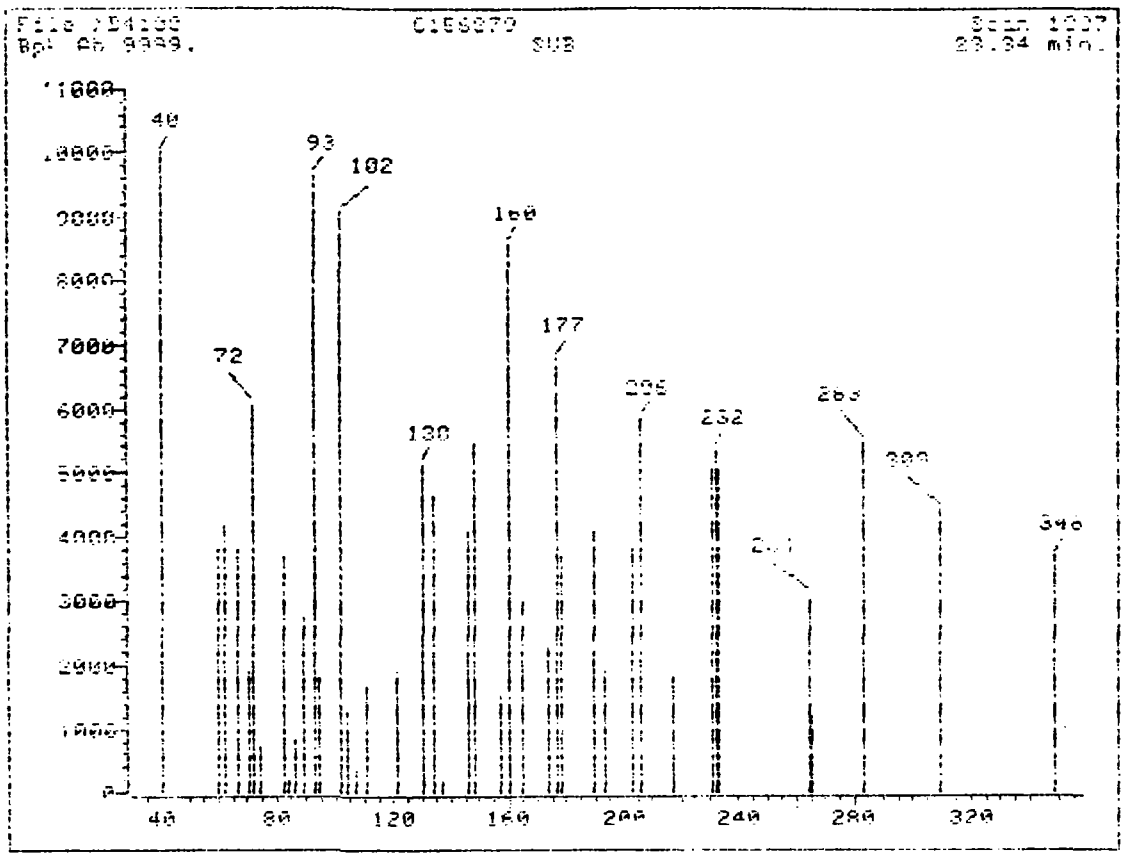
RT = 23.02 AREA = [illegible] RESPONSE FACTOR IS 29.00

DATA FILE: >B4100::07 DATE/TIME: 5/25/94 16:26 MASS SPEC # 1

1. 2-Propanol, 1-[2-(2-methoxy-1-methylethoxy)-1-methyl ethoxy]- 206 C10H22O4
2. Propanoic acid, 2-hydroxy-2-methyl-, methyl ester 118 C5H10O3
3. 2-Butanone, 3-hydroxy-3-methyl- 100 C5H10O2
4. 2-Propanol, 2-methyl- 74 C4H10O
5. Butanamide, 3-methyl- 101 C5H11NO

Sample file: >B4100 Spectrum #: 1010
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IU
1.	40	20324338	7356	"BIGDB	59	50	1	0	69	36	14	17
2.	35*	2110783	6886	"BIGDB	37	53	2	0	100	34	12	18
.	34*	115220	6961	"BIGDB	34	40	2	0	88	34	12	17
4.	34	75650	6787	"BIGDB	30	45	0	0	85	34	12	17
5.	33*	541468	6951	"BIGDB	32	50	2	0	100	34	12	16



See attached.

HQ 6/2/94.

HQ 6/2/94.

UNKNOWN # 2

RT = 28.34 AREA = ~~17927~~ 462710

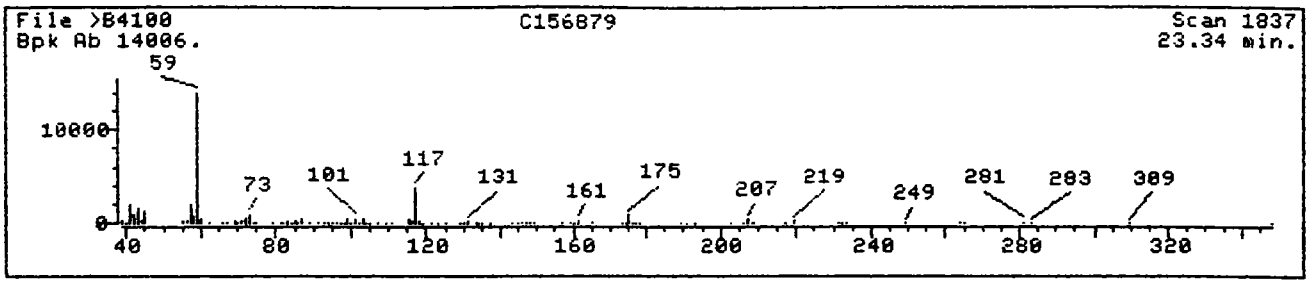
37.00 ~~14.00~~

DATA FILE: >84100::D7 DATE/TIME: 5/25/94 14:26 MASS SPEC # 1

Sample file: >84100 Spectrum #: 1937

No data base entries were retrieved.

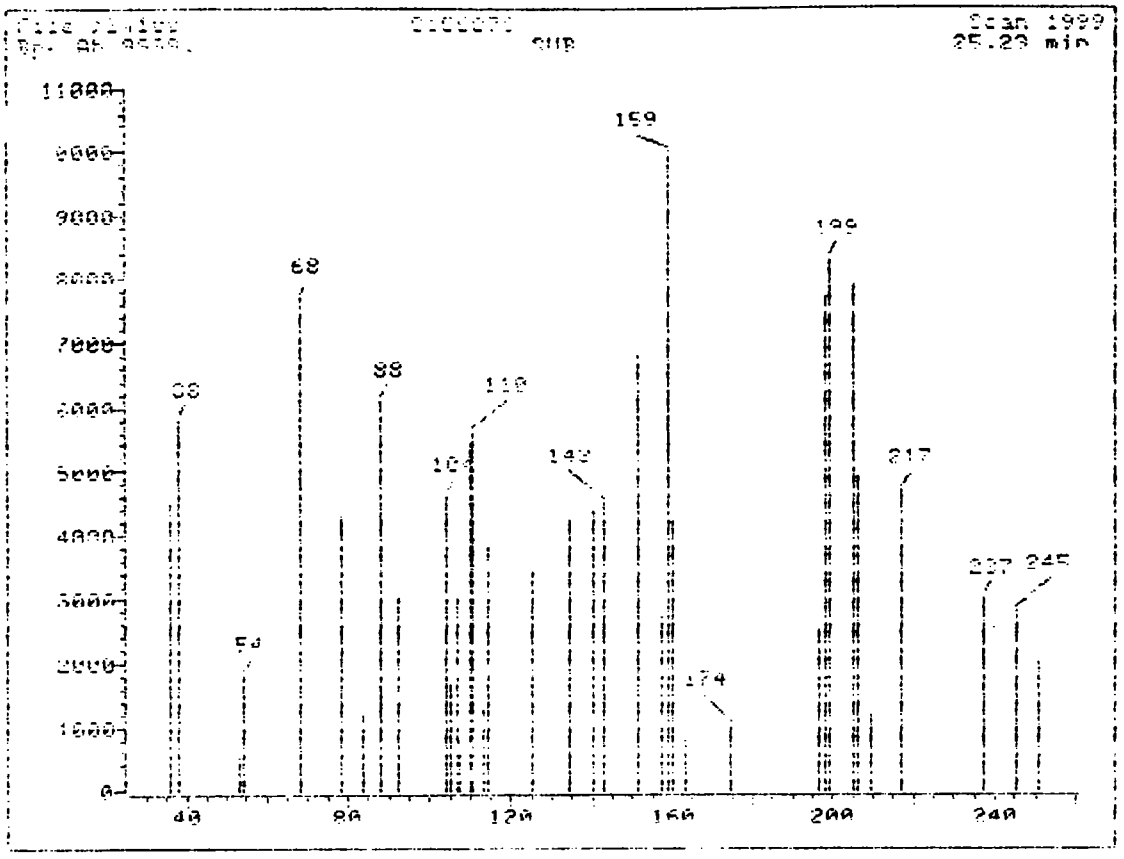
FMGR : NEW



1. PROPIONIC ACID, 2-ISOPROPOXY-, METHYLESTER 146 C7H1403
2. 2-Propanol, 1-[1-methyl-2-(2-propenyloxy)ethoxy]- 174 C9H1803
3. 2-Propanol, 2-methyl- 74 C4H10O
4. 3-Pentanol, 2-methyl- 102 C6H14O

Sample file: >B4100 Spectrum #: 1837
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36	0	6782	"BIGDB	36	38	0	0	91	34	12	19
2.	35	55956257	7214	"BIGDB	46	48	2	0	88	30	14	12
3.	35	75650	6790	"BIGDB	34	39	0	0	76	34	12	18
4.	35*	565673	6874	"BIGDB	36	55	2	0	100	34	12	18



HR 6/2/94

UNKNOWN: # 8

25.6

~~307156~~. 320430

DATA FILE: \84100::D7 DATE/TIME: 5/25/94 14:26 MASS SPEC # 1

Sample file: \84100 Spectrum #: 1999

No data base entries were retrieved

HA 5/26/94

QUANT REPORT

Operator ID: HAIVAN
Output File: 0B-108::05
Data File: 1B4108::07
Name: 0156876
Misc:

Quant Rev: 7
Quant Time: 940525 23:36
Injected at: 940525 22:55
Dilution Factor: 1.00000
Instrument ID: MSD100
STL#10

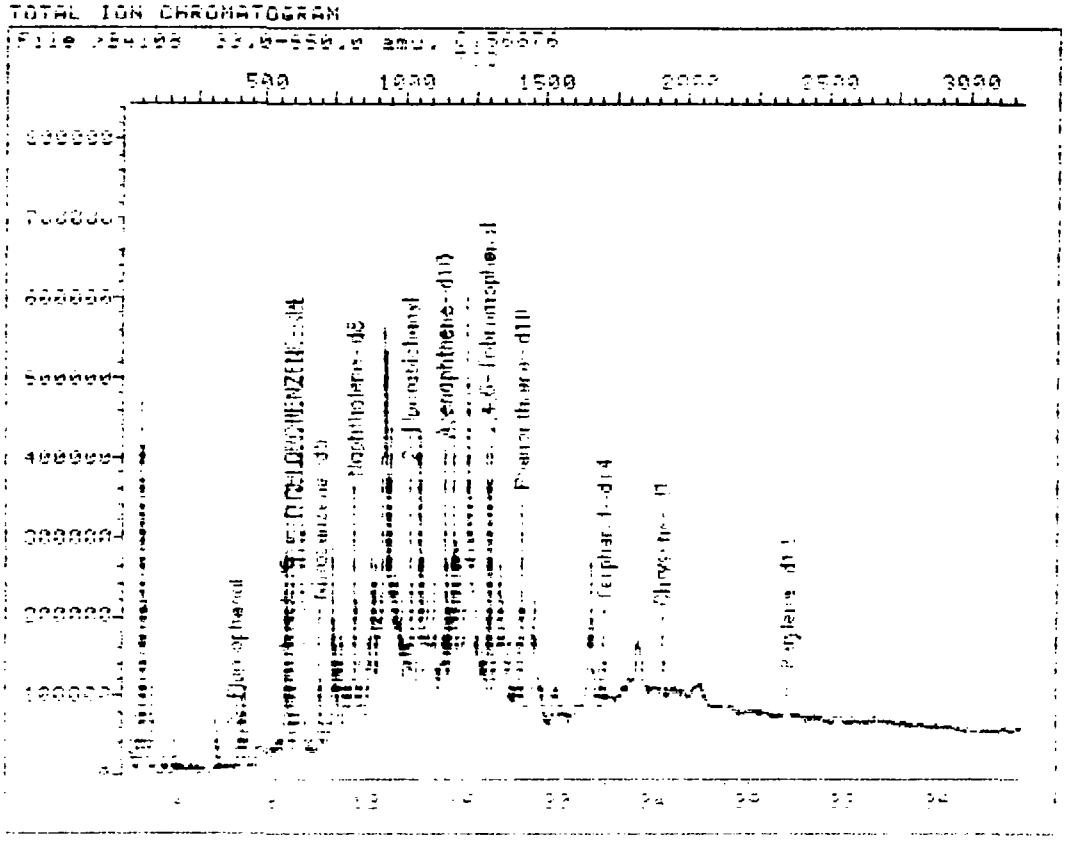
Ok

ID File: IDSV01::06
Title: SEMI-VOLATILES ID FILE - INST. #100
Last Calibration: 940324 09:57
Last Qual Time: 940525 13:34

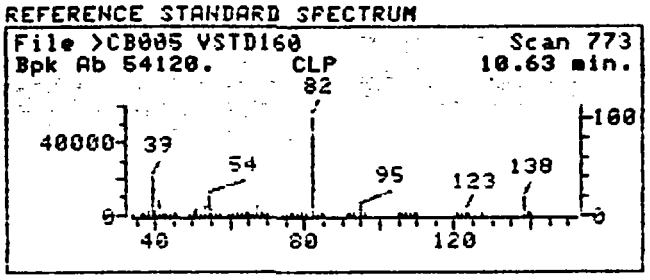
	Compound	R.T.	Quan	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	9.92	152.0	65151	40.00	UG/L	97
4)	2-Fluorophenol	6.47	112.0	81913M	44.11	UG/L	81
10)	Phenol-d6	9.59	99.0	98824M	38.57	UG/L	
14)	bis(2-chloroisopropyl)ether	9.32	45.0	17119	2.99	UG/L Bnl	100
15)	4-Methylphenol	9.99	109.0	3704	1.33	UG/L ↓	94
19)	*Naphthalene-d8	11.44	136.0	245954	40.00	UG/L	92
20)	Isophorone	10.81	82.0	157149	37.05	UG/L	99
22)	Nitrobenzene-d5	9.91	82.0	77470	33.77	UG/L	90
23)	2,4-Dimethylphenol	10.94	107.0	5407	2.79	UG/L Bnl	96
26)	2,4-Dichlorophenol	11.32	162.0	3983	1.76	UG/L	87
28)	Naphthalene	11.49	128.0	3299	1.42	UG/L	100
31)	4-Chloro-3-methylphenol	12.85	107.0	15429	5.85	UG/L bad hit	100
32)	2-Methylnaphthalene	12.97	142.0	16560	2.00	UG/L Bnl	61
33)	*Acenaphthene-d10	15.21	164.0	149520	40.00	UG/L	100
35)	2-Fluorobiphenyl	13.77	172.0	158702	39.32	UG/L	97
44)	2,6-Dinitrotoluene	14.80	165.0	14066	10.12	UG/L	100
52)	Dimethylphthalate	16.[illegible]	149.0	5507	1.03	UG/L Bnl	100
56)	2,4,6-Tribromophenol	16.97	309.0	97817M	42.79	UG/L	100
57)	*Phenanthrene-d10	18.43	188.0	234910	40.00	UG/L	100
60)	Benzidine	16.79	77.0	3113	1.30	UG/L Bnl	49
73)	Di-n-butylphthalate	19.74	149.0	7441	1.90	UG/L ↓	93
75)	*Chrysene-d12	24.31	240.0	123976	40.00	UG/L	100
91)	bis(2-Ethylhexyl)phthalate	24.36	149.0	15545	8.17	UG/L	92
93)	Terphenyl-d14	21.91	244.0	99470	28.92	UG/L	100
94)	*Perylene-d12	29.44	264.0	110893	40.00	UG/L	100

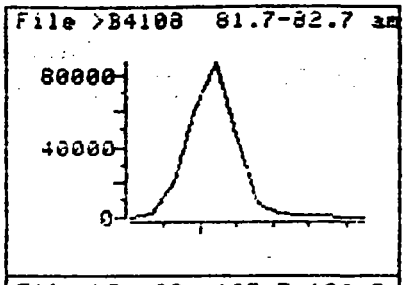
* Compound is ISTD

TOTAL ION CHROMATOGRAM

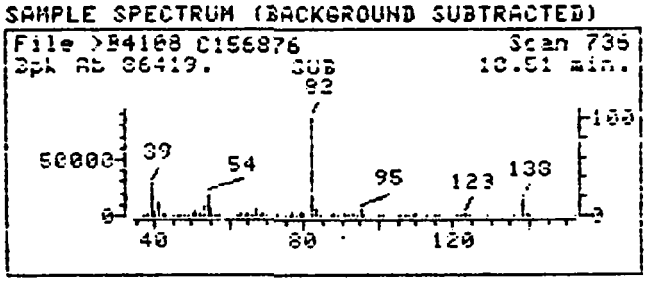


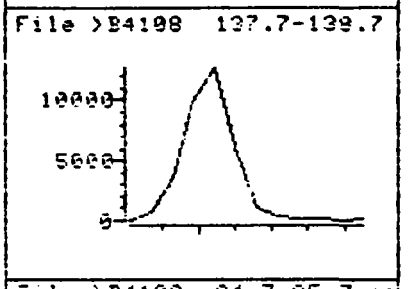
REFERENCE STANDARD SPECTRUM



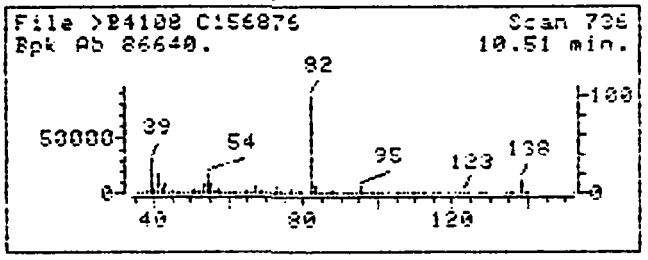


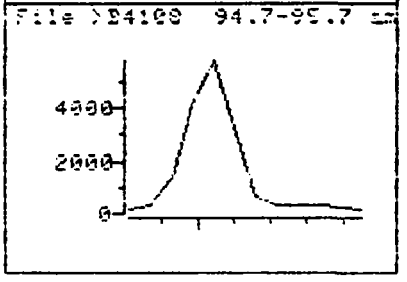
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





Data File: >B4108::D7
Name: C156876
Misc:
Quant Time: 940525 23:36
Injected at: 940525 22:55
Last Qcal Time: 940525 13:34

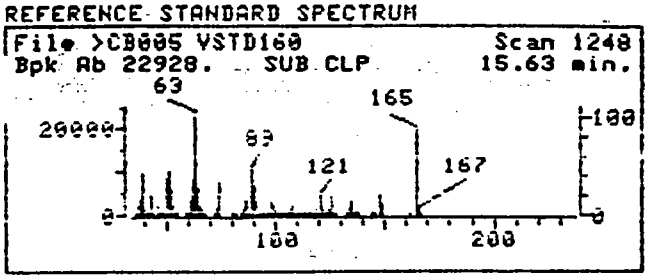
Quant Output File: ^B4108::D5
Instrument ID: MSD102
BTL#10
Quant ID File: IDSU01::D6
Last Calibration: 940324 08:57

Compound No : 20
Compound Name : Isophorone
Scan Number : 736
Retention Time: 10.51 min.
Quant Ion : 82.0
Area : 157168
Concentration : 37.05 UG/L
q-value : 89

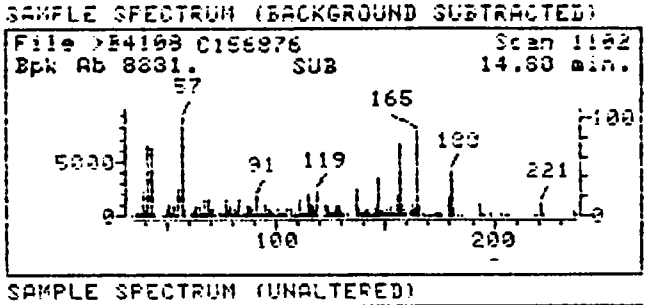
✓

HQ 5/27/94

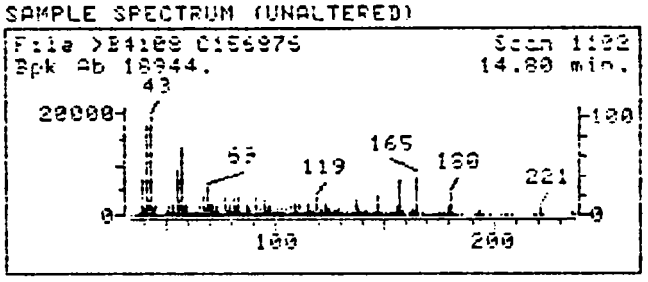
REFERENCE STANDARD SPECTRUM

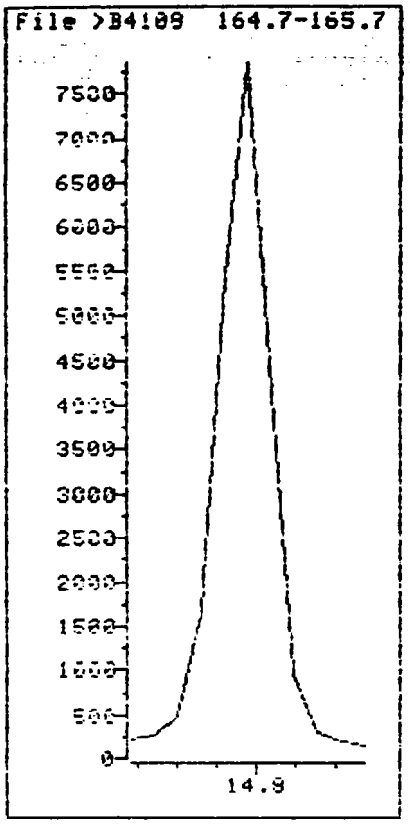


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >B4108::D7
Name: C156876
Misc:
Quant Time: 940525 23:36
Injected at: 940525 22:55
Last Qcal Time: 940525 13:34

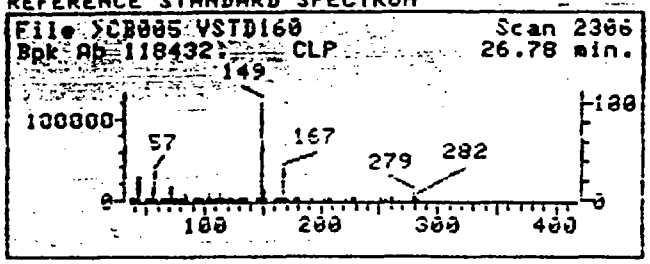
Quant Output File: ^B4108::D5
Instrument ID: MSD102
BTL#10
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

Compound No : 44
Compound Name : 2,6-Dinitrotoluene
Scan Number : 1102
Retention Time: 14.80 min.
Quant Ion : 165.0
Area : 14066
Concentration : 10.12 UG/L
q-value : 100

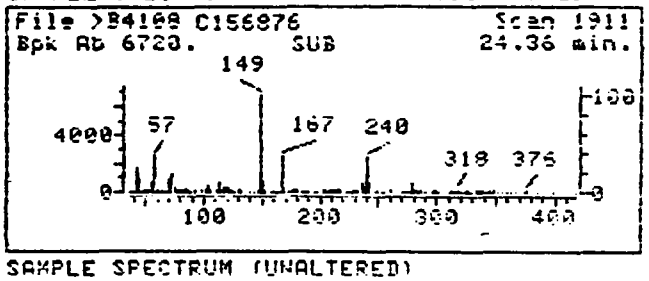
HA 5/27/94.

001259

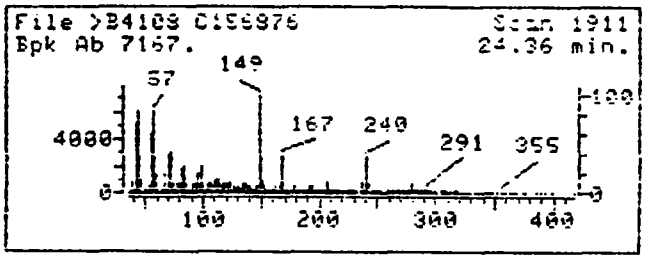
REFERENCE STANDARD SPECTRUM

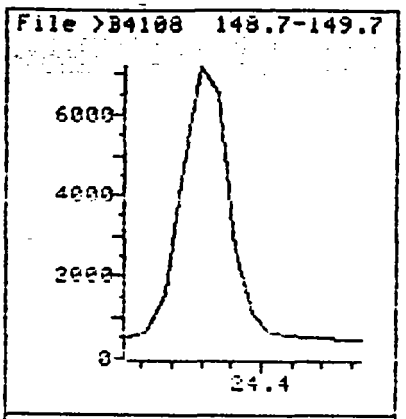


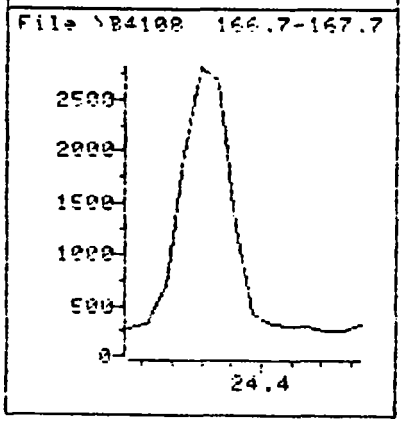
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >B4108::D7
Name: C156876
Misc:
Quant Time: 940525 23:36
Injected at: 940525 22:55
Last Qcal Time: 940525 13:34

Quant Output File: ^B4108::D5
Instrument ID: MSD102
BTL#10
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

Compound No : 91
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 1911
Retention Time: 24.36 min.
Quant Ion : 149.0
Area : 15545
Concentration : 8.17 UG/L
q-value : 92

HA 5/27/94

4	8.56	565	569	580	321918	1407315	947557	30.00	5.396
5	8.73	580	584	586	248455	692270	508207	16.09	2.894
6	9.24	616	627	631	572073	3508039	3158153	100.00	17.984
7	10.47	743	750	751	96710	755099	385619	12.21	2.196
8	12.10	869	872	877	143289	1133850	411938*	13.04	2.346
9	12.26	879	896	888	82157	1355526	339426	10.75	1.933
10	12.50	896	906	910	107586	1774087	599976	19.00	3.417
11	12.64	914	918	920	261799	1550988	748845*	23.71	4.264
12	12.71	920	924	926	337877	2165500	1244571*	39.43	7.087
13	12.74	926	927	931	287298	1381196	542786*	17.19	3.091
14	13.24	965	969	976	99554	1529061	399323	12.64	2.274
15	13.86	1019	1022	1029	119576	1382231	379265	12.01	2.160
16	14.19	1045	1050	1056	314494	1988171	893171	28.29	5.086
17	15.62	1163	1172	1178	302541	2830718	1376450*	43.58	7.838
18	16.15	1214	1217	1218	336193	1104255	524708*	16.61	2.988
19	16.46	1241	1244	1249	152945	1258780	433014	13.71	2.466
20	16.97	1283	1287	1291	301562	1390911	741752	23.49	4.224
21	17.08	1292	1296	1299	312443	1235819	705313	22.33	4.014
22	17.44	1320	1327	1331	132503	1329501	446677	14.14	2.544

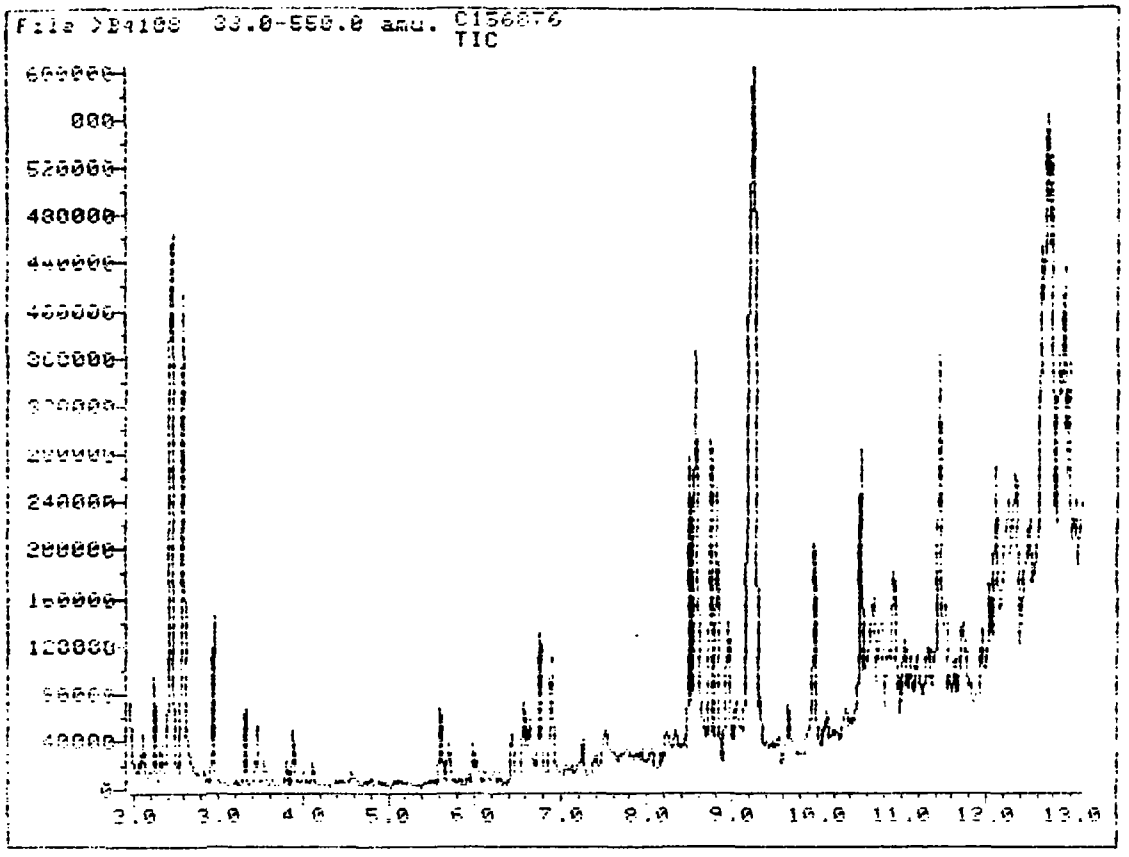
Sum of corrected areas: 17560692.

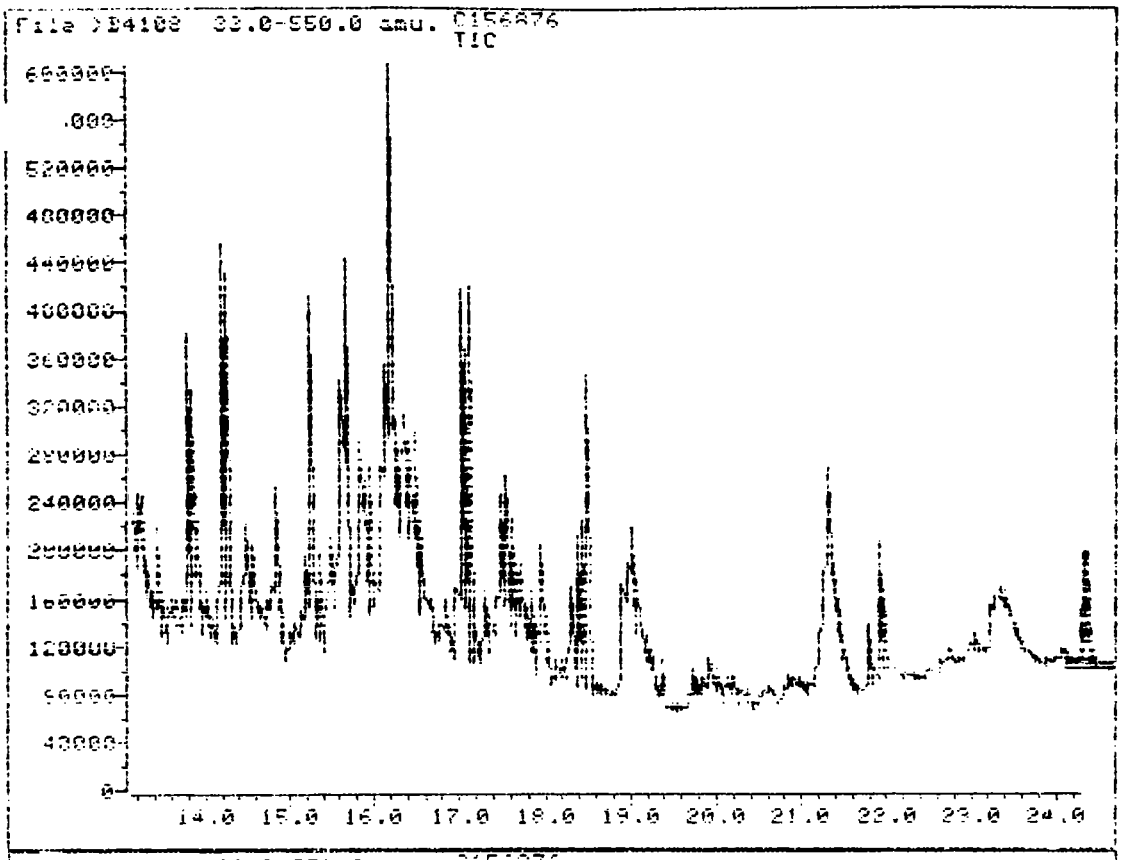
Summary of Unknowns PHM Library Search and Quantitation

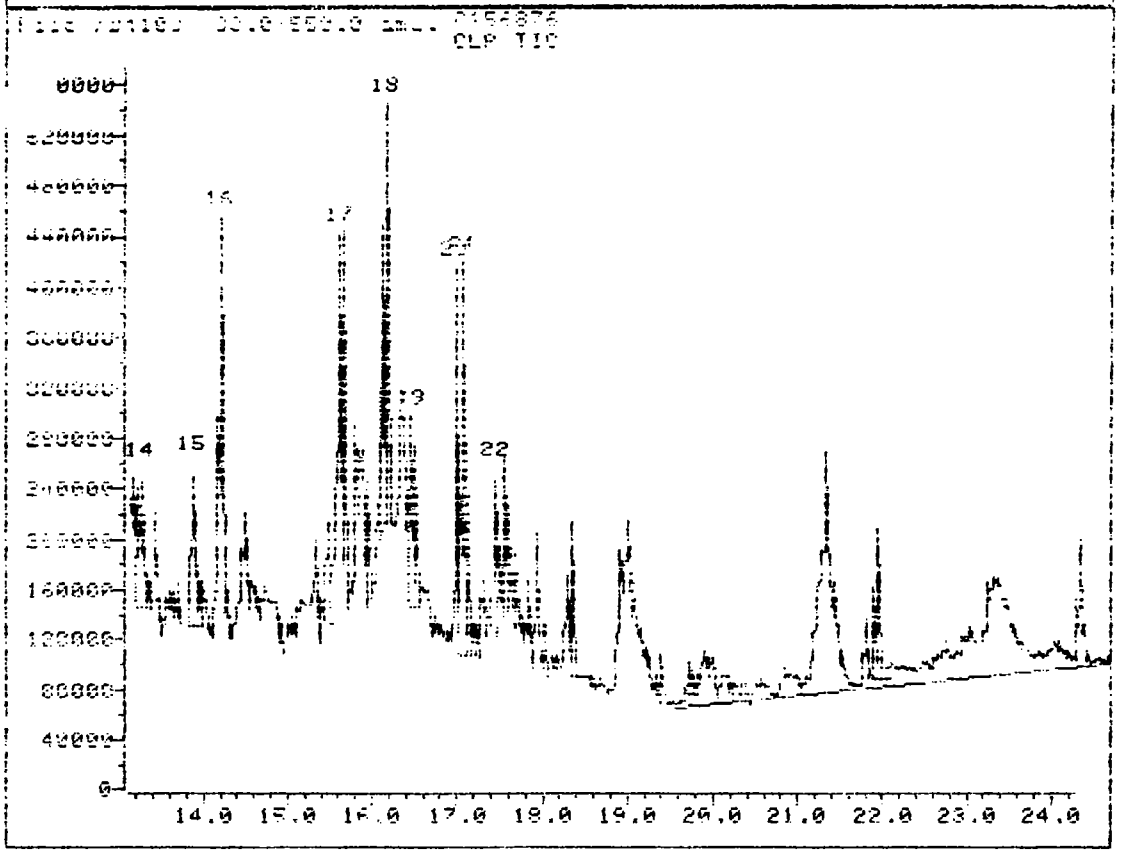
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	434327.	8.82	9.00 - 10.13
2	40.0	472290.	11.44	10.13 - 13.33
NOTE: QLS injection sequence error - ABORTING				
3	40.0	707878.	15.91	13.33 - 16.82
4	40.0	590110	18.43	16.82 - 21.37
5	40.0	236058	24.31	21.37 - 26.98
6	40.0	204922.	29.66	26.98 - 39.51

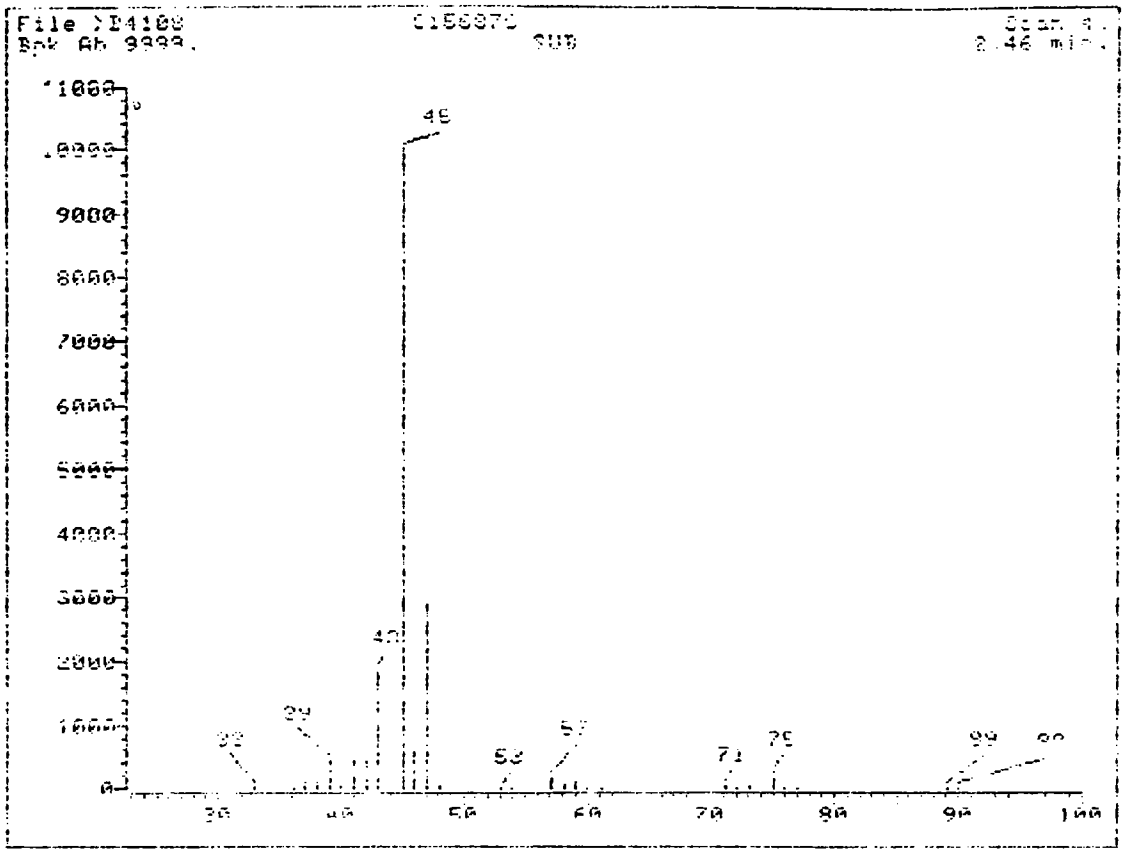
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

2:32 PM THU., 26 MAY , 1994


File >B4108 33.0-550.0 amu. C156876
TIC
600000
000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0


File >B4108 33.0-550.0 amu. C156876
TIC
600000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0


CLP TIC
18
16
17
19
14
15
22
160000
120000
80000
40000
0
14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0



HC 6/2/94.

UNKNOWN # 1

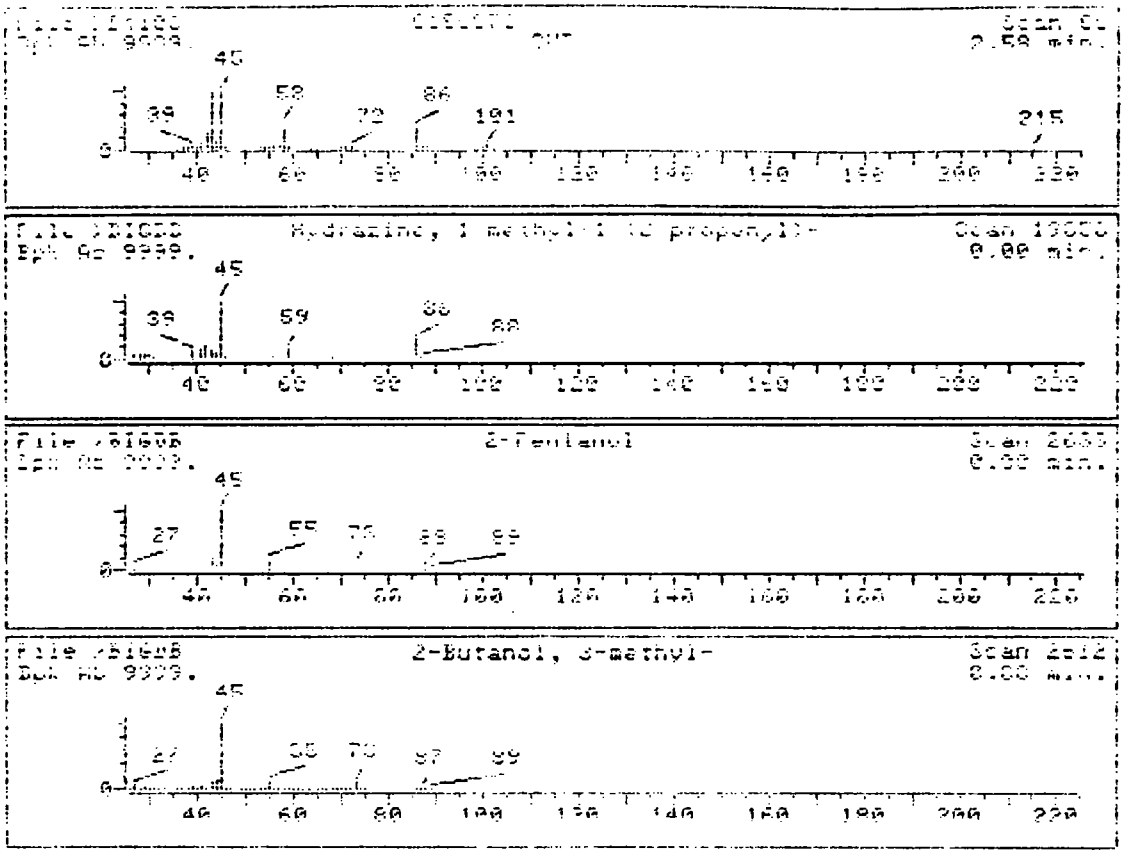
RI = 7.46 AREA 1449310. RESPONSE FACTOR IS 110.00

DATA FILE: >B4108::07 DATE/TIME: 5/25/94 20:55 MASS SPEC # 1

Sample File: >B4108 Spectrum #: 44

No data base entries were retrieved.

001264



AC 6/2/94

UNKNOWN #,2

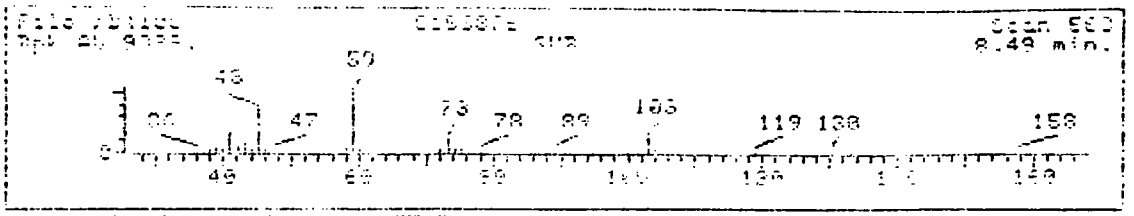
RT = 2.58 AREA = 842313.0 RESPONSE FACTOR IS 78.00

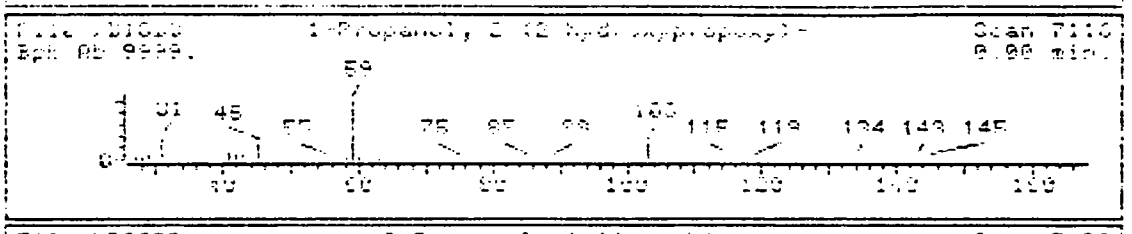
DATA FILE: >84108::07 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

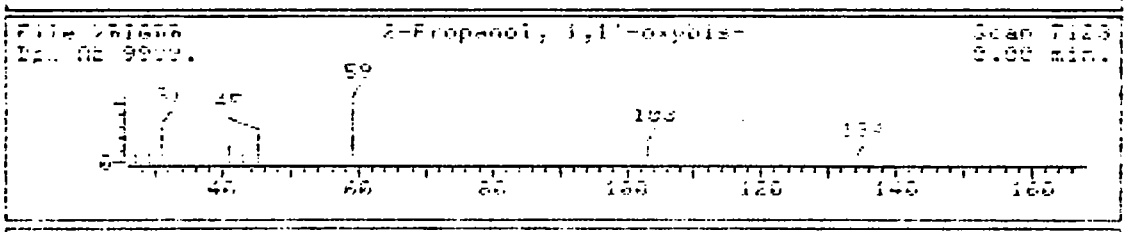
1. Hydrazine, 1-methyl-1-(2-propenyl)- 86 C4H10N2
2. 2-Pentanol 88 C5H12O
3. 2-Butanol, 3-methyl- 88 C5H12O
4. 2-Butanol, 3-methyl- 88 C5H12O
5. 2-Hexanol 102 C6H14O

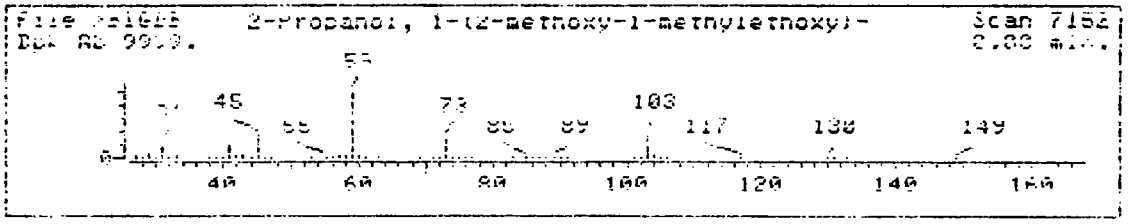
Sample file: >84108 Spectrum #: 55
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1	35*	20240704	19050	"BIGDB	36	49	2	0	100	34	12	18
2.	25*	6032297	2633	"BIGDB	20	25	2	0	100	48	7	13
3.	25*	598754	2612	"BIGDB	32	43	2	0	88	46	7	16
.	25*	598754	2614	"BIGDB	23	58	2	0	100	46	7	13
5.	25*	626937	2713	"BIGDB	20	59	2	0	100	46	7	13









HQ 6/2/94

UNKNOWN #,3

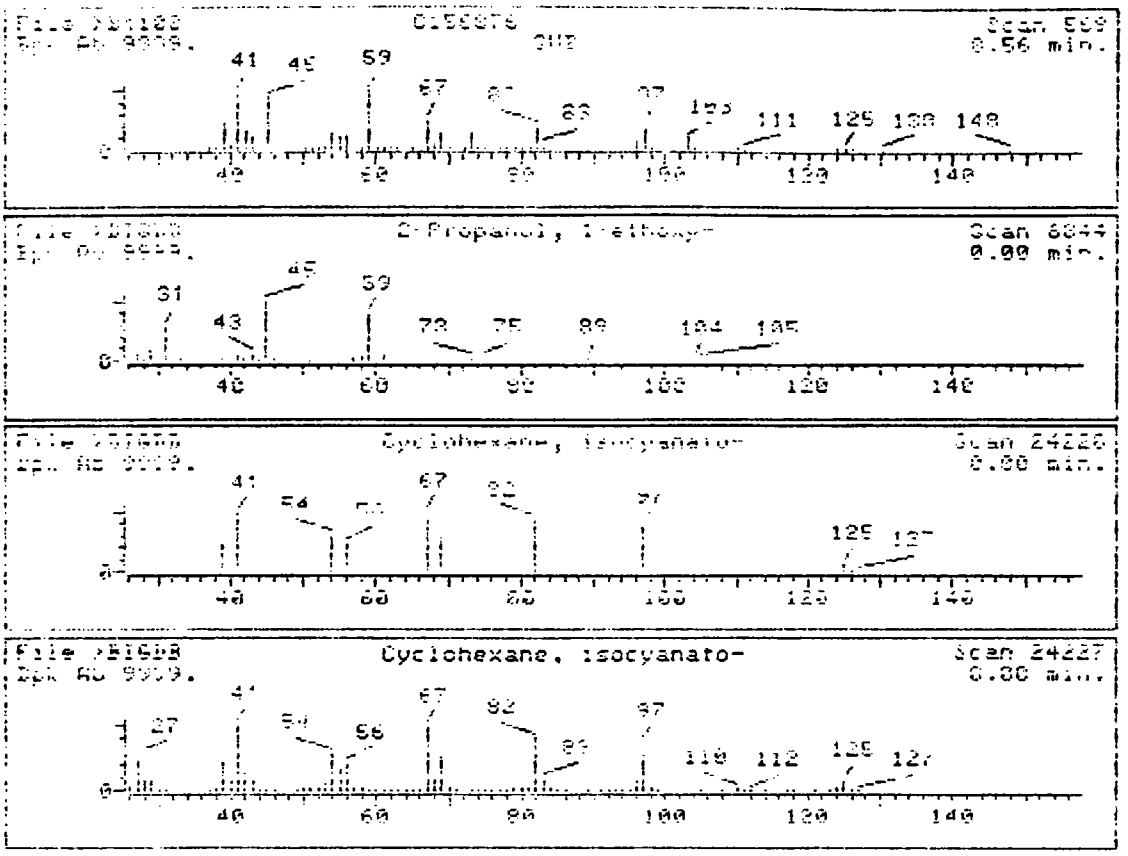
RT = 8.49 AREA = 499312.0 RESPONSE FACTOR IS 45.00

DATA FILE: >B4108::D7 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

1. 1-Propanol, 2-(2-hydroxypropoxy)- 134 C6H14O3
2. 2-Propanol, 1,1'-oxybis- 134 C6H14O3
3. 2-Propanol, 1-(2-methoxy-1-methylethoxy)- 148 C7H16O3
4. DIPROPYLENEGLYCOL METHYL ETHER 148 C7H16O3

Sample file: >B4108 Spectrum #: 563
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	45	106627	7116	"BIGDB	45	41	1	0	86	24	17	16
2.	42	110985	7123	"BIGDB	26	29	0	0	84	23	17	13
3.	31	20324327	7152	"BIGDB	36	42	0	0	48	41	8	19
4.	31	12002254	7150	"BIGDB	36	42	0	0	48	41	8	19



HK 6/2/94

UNKNOWN # 4

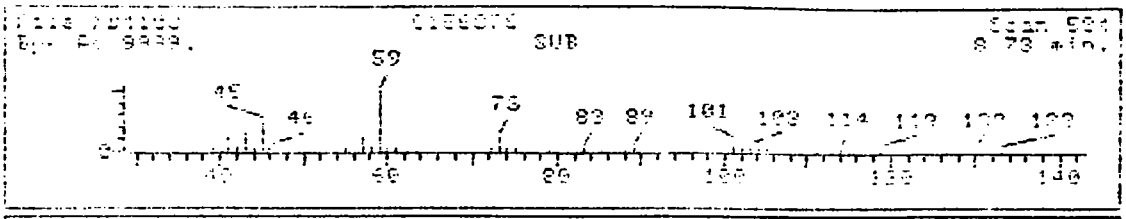
RT = 8.56 AREA = 947557.0 RESPONSE FACTOR IS 87.00

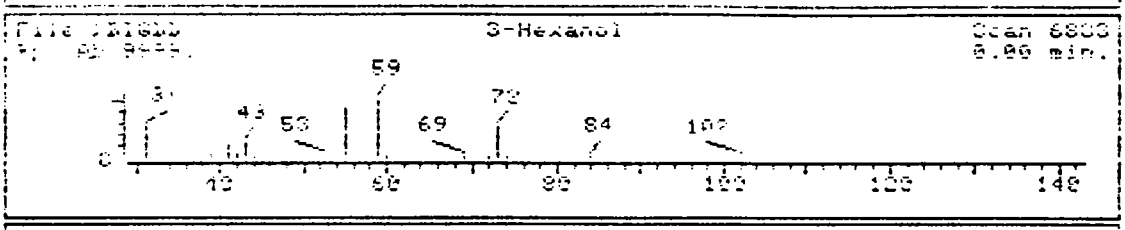
DATA FILE: >B4108::07 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

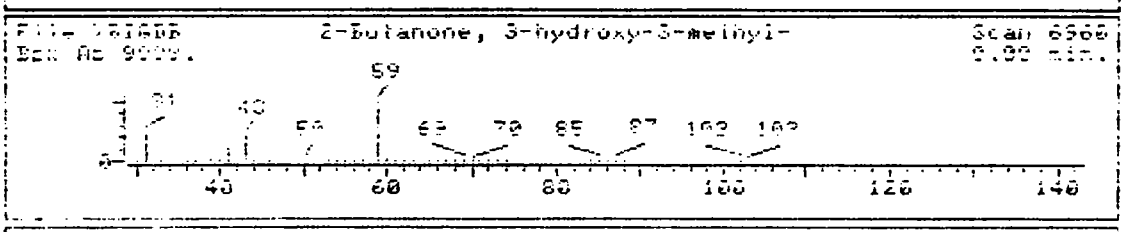
1 2-Propanol, 1-ethoxy- 104 C5H12O2
2 Cyclohexane, isocyanato- 125 C7H11NO
3. Cyclohexane, isocyanato- 125 C7H11NO

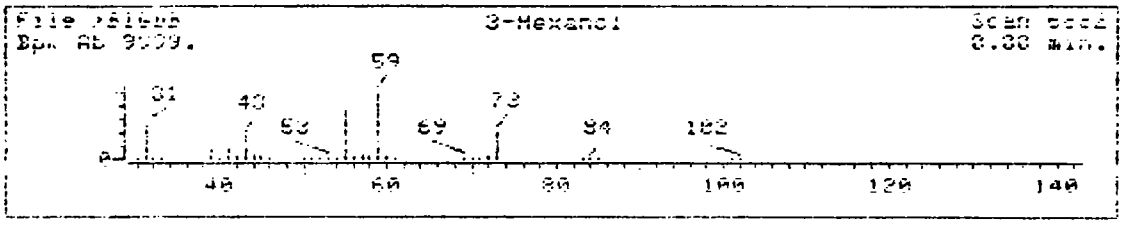
Sample file: >B4108 Spectrum #: 569
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IU
1.	20*	1569024	6844	"BIGDB	24	69	2	0	89	52	5	14
2.	15	3173533	24228	"BIGDB	50	20	1	0	46	60	3	19
3.	15	3173533	24227	"BIGDB	66	54	2	0	50	57	3	14









UNKNOWN # 5 HC 6/2/94

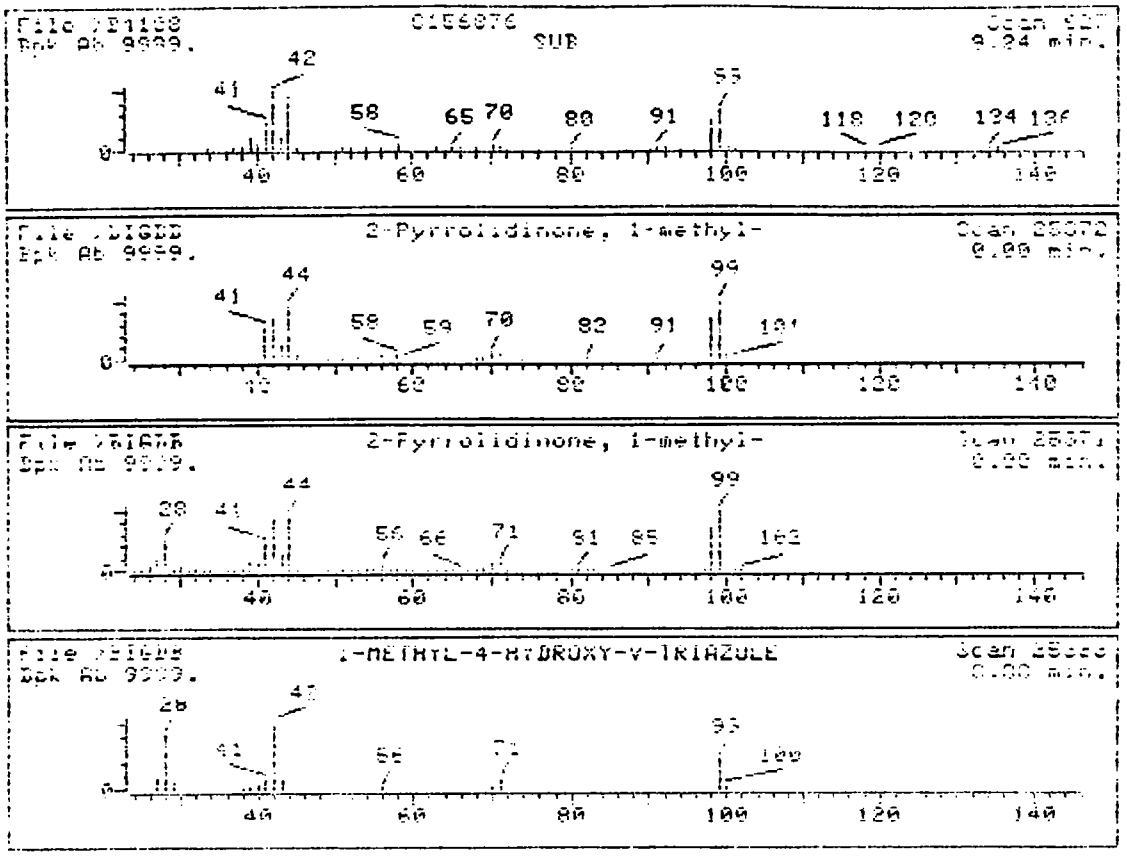
M1 = M AREA = 508207.0 RESPONSE FACTOR IS 47.00

DATA FILE: >B4108::D7 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

1. 3-Hexanol 102 C6H14O
2. 2-Butanone, 3-hydroxy-3-methyl- 102 C5H10O2
3. 3-Hexanol 102 C6H14O

Sample file: >B4108 Spectrum #: 584
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29*	623370	6883	"BIGDB	23	64	3	0	100	33	12	12
2.	25*	115220	6960	"BIGDB	20	61	2	0	68	50	7	13
3.	15*	623370	6882	"BIGDB	21	70	2	0	56	57	3	13



HO 6/2/94

UNKNOWN #,6

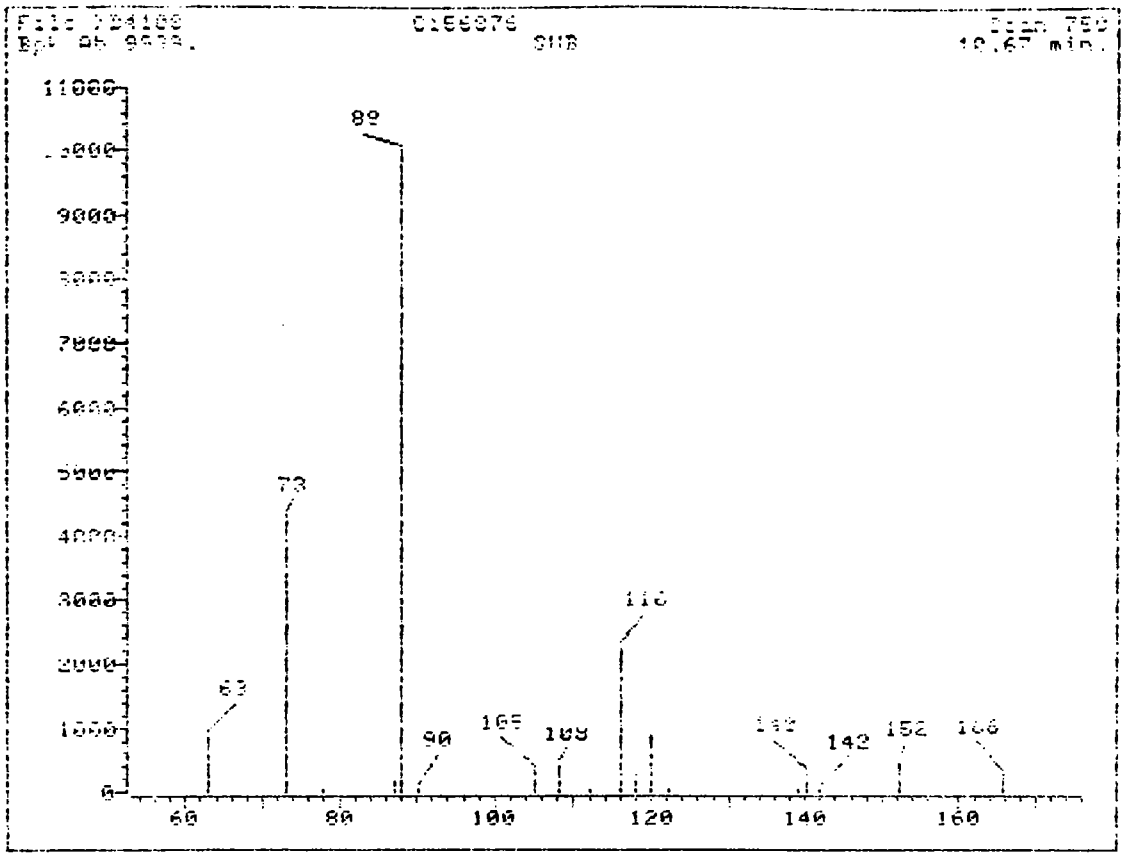
RT = 9.24 AREA = 3158153, RESPONSE FACTOR IS 990.00

DATA FILE: >B4108::D7 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

1.	2-Pyrrolidinone, 1-methyl-	99 C5H9NO
2.	2-Pyrrolidinone, 1-methyl-	99 C5H9NO
3.	1-METHYL-4-HYDROXY-V-TRIAZOLE	99 C3H5N3O
4.	2-AMINO-4-METHYLOXAZOLE	98 C4H6N2O
5.	TRIDEUTERUACETONITRILE	0

Sample file: >B4108 Spectrum #: 627
Search speed: 1 Tilting option: N No. of ion ranges searched: 37

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	872504	25372	"BIGDB	45	55	2	0	66	21	17	18
2.	43*	872504	25371	"BIGDB	34	71	2	0	66	22	17	14
3.	25*	15966775	25383	"BIGDB	29	41	2	0	100	50	7	14
.	25*	35629700	24863	"BIGDB	27	59	2	0	97	47	7	14
5.	20*	2206260	2238	"BIGDB	21	29	1	0	89	52	5	14



See attached flk 6/2/94.

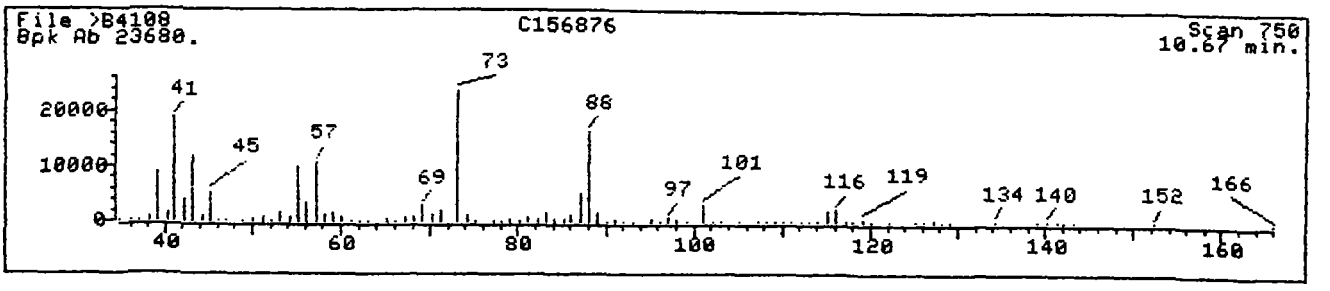
UNKNOWN #7

RT = 10.67 AREA = 775619 0 RESPONSE FACTOR IS 32.00

DATA FILE: >B4108::D7 DATE/TIME: 5/25/94 21:56 MASS SPEC # 1

Sample file: >B4108 Spectrum #: 750

No data base entries were retrieved.

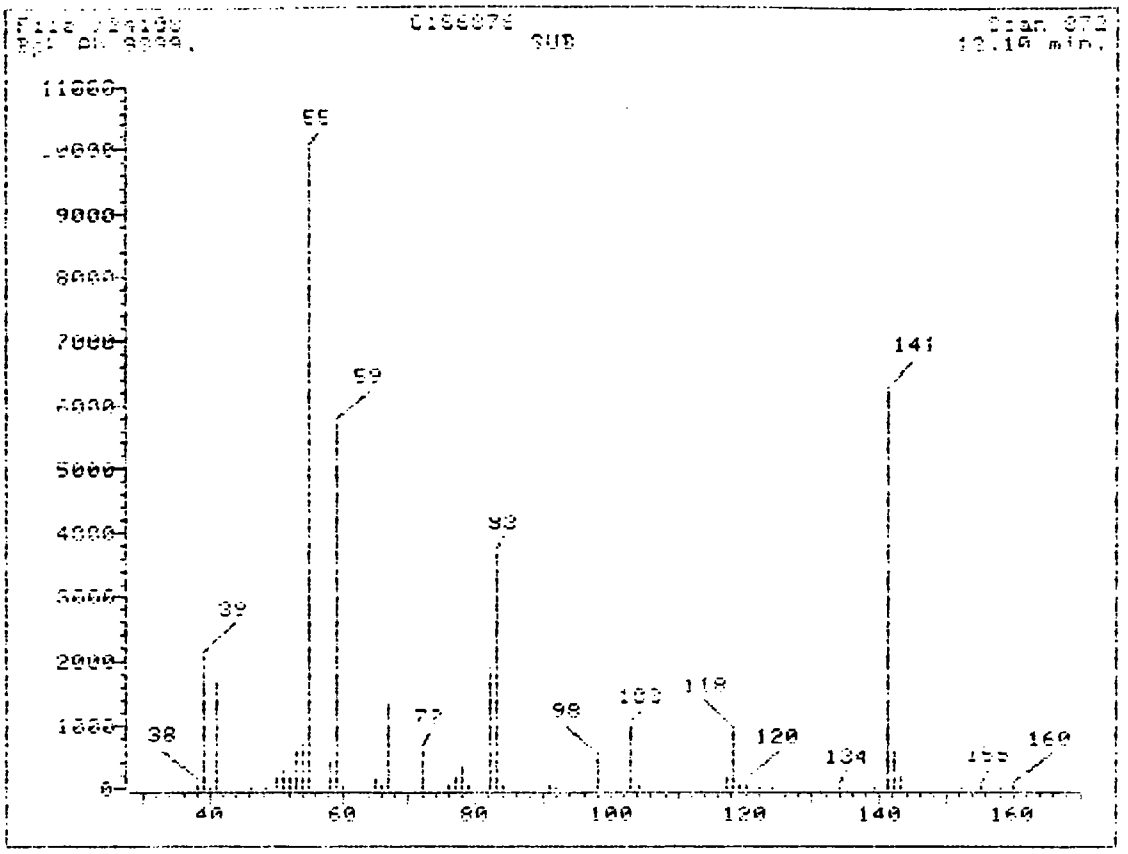


FMGR : PRE,,,,,,4

1.	Hydrazine, 1-butyl-1-ethyl-	116 C6H16N2
2.	Hexanoic acid, 2-ethyl-	144 C8H16O2
3.	Hydrazine, 1-methyl-1-(1-methylethyl)-	88 C4H12N2
4.	Hexanoic acid, 2-ethyl-	144 C8H16O2

Sample file: >B4108 Spectrum #: 750
Search speed: 1 Tilting option: N No. of ion ranges searched: 39

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	52728560	33269	"BIGDB	37	42	0	0	70	43	16	42
2.	47	149575	20906	"BIGDB	56	43	0	0	59	35	20	31
3.	36*	33668541	20732	"BIGDB	28	76	3	0	100	26	14	13
4.	33	149575	20903	"BIGDB	37	62	0	0	46	32	12	16



See attached. HO 6/2/94.

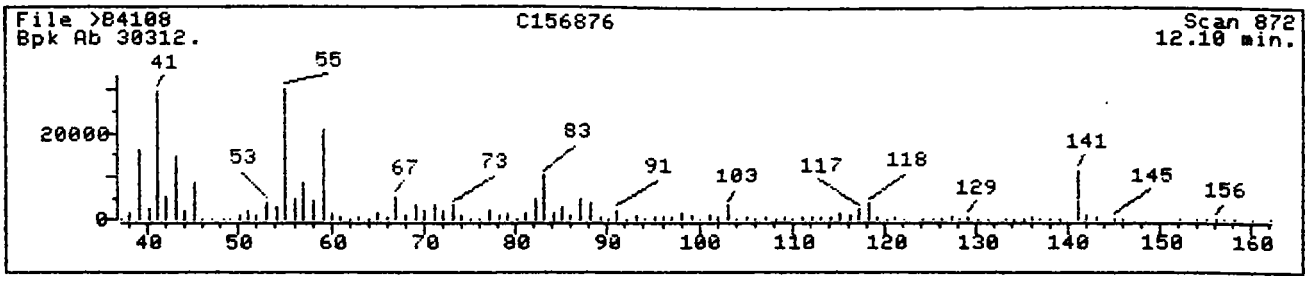
UNKNOWN # 8

RT = 10.10 AREA = 411978.0 RESPONSE FACTOR IS 34.00

DATA FILE: 184109:07 DATE/TIME: 5/25/94 20:55 MASS SPEC # 1

Sample File: 184109 Spectrum #: 872

No data base entries were retrieved.

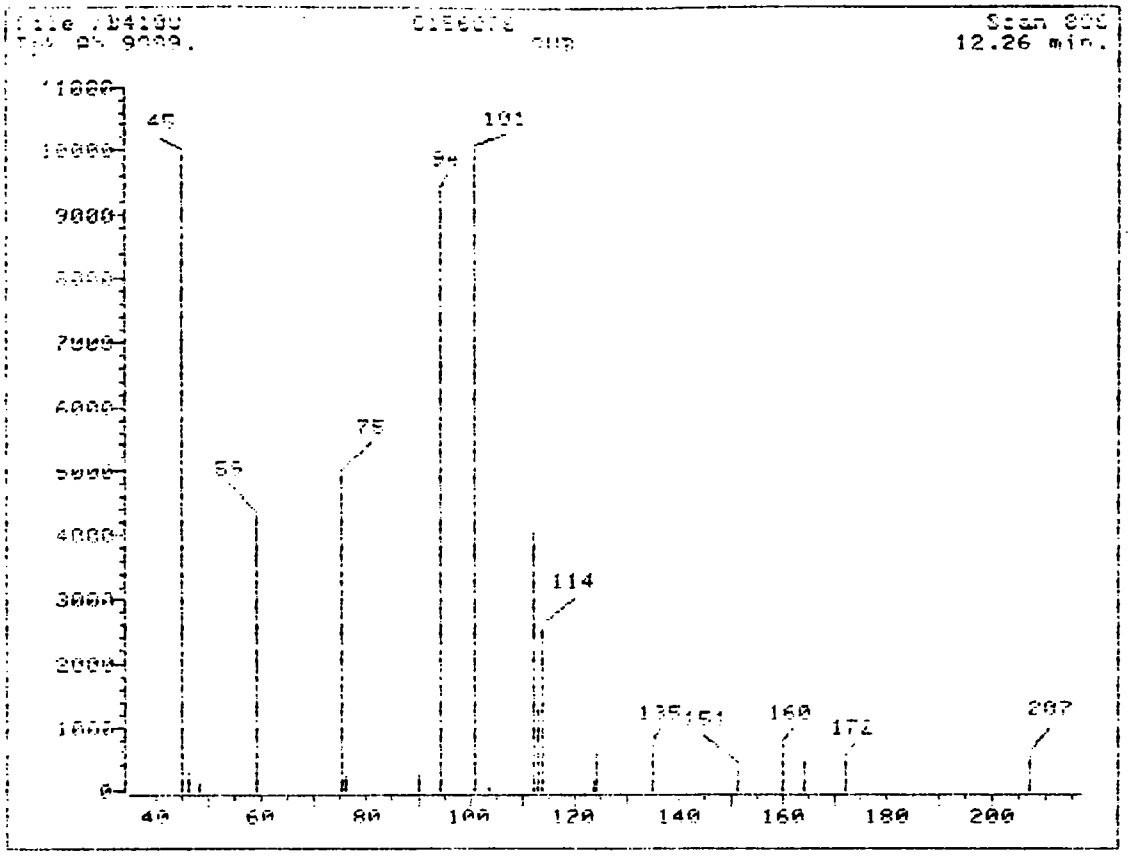


PRE

1. 1-Propanol, 3-[3-(1-methylethoxy)propoxy]- 176 C9H20O3
2. Hydrazine, (1-methylpropyl)- 88 C4H12N2
3. Hydrazine, 1-methyl-1-propyl- 88 C4H12N2
4. DIETHYLDIMETHYL-SILANE 116 C6H16Si

Sample file: >B4108 Spectrum #: 872
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30	54518035	7323	"BIGDB	49	34	1	0	47	42	8	18
2.	26*	30924142	20730	"BIGDB	46	55	0	0	56	57	7	54
3.	21*	4986496	6999	"BIGDB	35	49	0	0	60	57	5	36
4.	21*	0	19934	"BIGDB	50	43	1	0	50	57	5	35



HQ 6/2/94. see attached.

UNKNOWN #,9

RT 12.26 AREA = 3/9404.0 RESPONSE FACTOR 1S 00.00

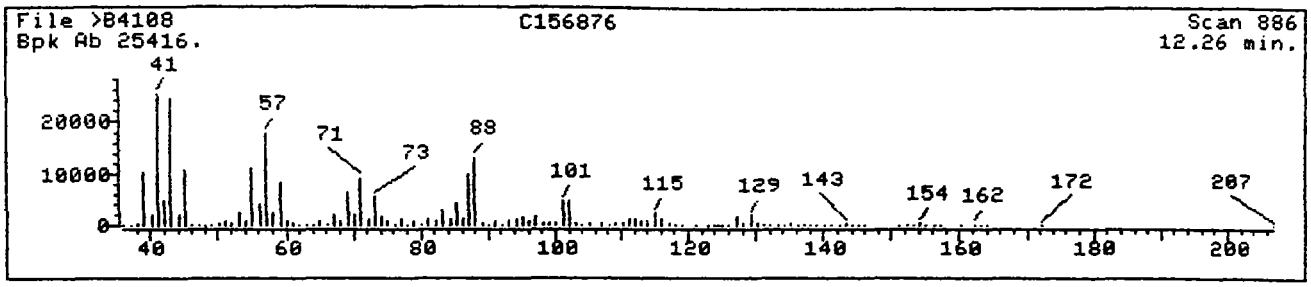
DATA FILE: 7B4100::D7 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

Sample file: 7B4100 Spectrum #: 806

No data base entries were retrieved.

001274

FMGR : NEW

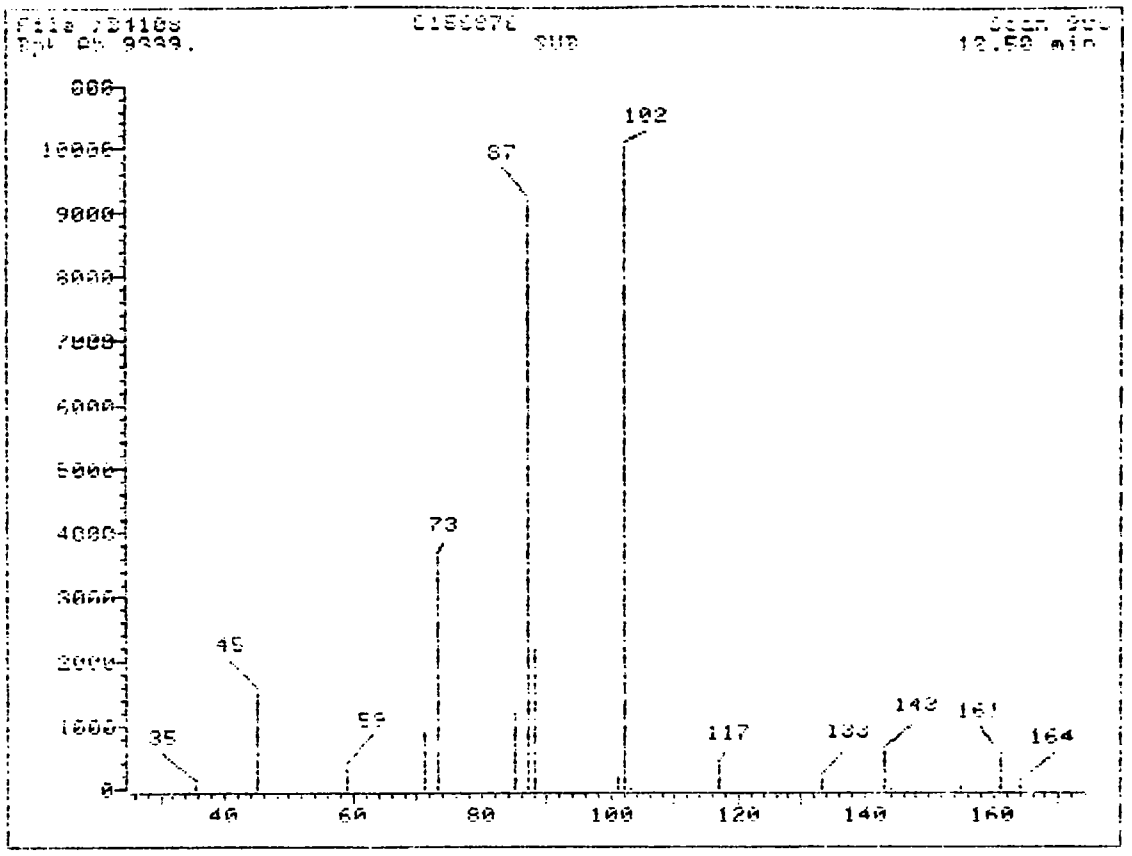


PRE,,,,,,4

1.	Propane, 1-methoxy-2,2-dimethyl-	102 C6H14O
2.	2-Octanol acetate	172 C10H20O2
3.	1-Propene, 3-(methylthio)-	88 C4H8S
4.	HYDROXY HYDANTOIN	116 C3H4N2O3

Sample file: >B4108 Spectrum #: 886
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	1118009	19965	*BIGDB	28	69	3	0	121	47	7	13
2.	20*	0	20797	*BIGDB	30	35	1	0	51	51	5	16
3.	20*	10152768	20783	*BIGDB	29	90	3	0	51	55	5	13
4.	15*	0	20665	*BIGDB	25	40	2	0	46	56	3	14



See attached. HA 6/2/94

UNKNOWN #,10

RT = 12.50 AREA = 599974 0 RESPONSE FACTOR IS 50.00

DATA FILE: >B4108::07 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

Sample File: >B4108 Spectrum #: 916

No data base entries were retrieved.

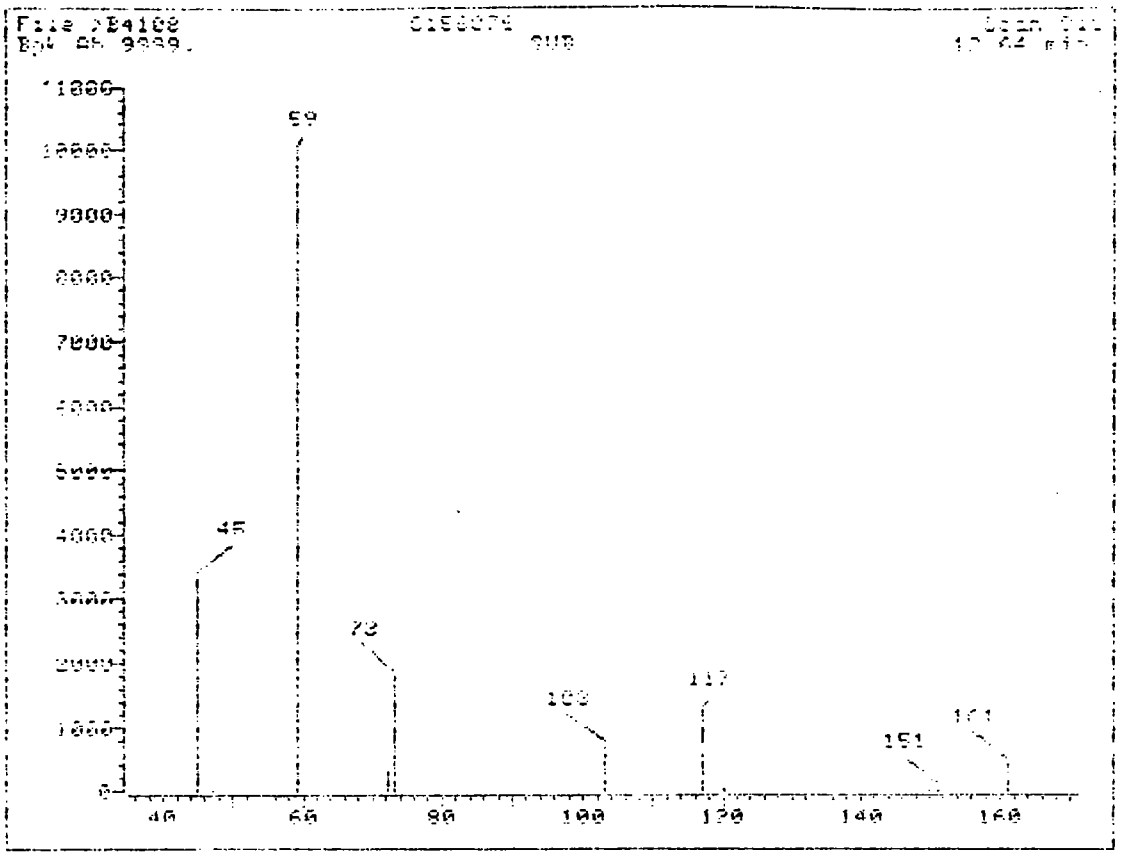
FMGR : NEW
FMGR : PRE,,,,,,

1.	Butanoic acid, 2-ethyl-3-oxo-, methyl ester	144	C7H12O3
2.	Hexanoic acid, 2-ethyl-, methyl ester	158	C9H18O2
3.	Butanoic acid, methyl ester	102	C5H10O2
4.	1-Methylallyloxydimethylsilane	129	C6H13OSi
5.	Propanoic acid, 2-methyl-, methyl ester	102	C5H10O2
6.	Propanoic acid, 2-methyl-, methyl ester	102	C5H10O2
7.	Propanoic acid, 2-methyl-, methyl ester	102	C5H10O2
8.	Propanoic acid, 2-methyl-, methyl ester	102	C5H10O2
9.	Thiophene, tetrahydro-2-methyl-	102	C5H10S
10.	Thiophene, tetrahydro-2-methyl-	102	C5H10S
11.	2-Acetyl-1,3-dioxane	130	C6H10O3
12.	Propane, 1-(1-methylethoxy)-	102	C6H14O
13.	1,3-Dioxolane, 2-ethyl-4-methyl-	116	C6H12O2
14.	Ethane, isothiocyanato-	87	C3H5NS
15.	Ethane, isothiocyanato-	87	C3H5NS
16.	Propane, 1-methoxy-2,2-dimethyl-	102	C6H14O

Sample file: >B4108 Spectrum #: 906
Search speed: 1 Tilting option: N No. of ion ranges searched: 39

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	51756082	20066	"BIGDB	30	62	3	0	135	48	7	13
2.	25	816193	20172	"BIGDB	44	42	1	0	52	50	7	15
3.	20*	623427	19964	"BIGDB	22	40	0	0	90	52	5	16
4.	20*	0	27482	"BIGDB	30	11	1	0	43	52	5	16
5.	15*	547637	27391	"BIGDB	33	61	1	0	97	57	3	18
6.	15*	547637	27392	"BIGDB	26	65	2	0	125	57	3	14
7.	15*	547637	19958	"BIGDB	25	66	2	0	118	57	3	14
8.	15*	547637	19961	"BIGDB	22	72	1	0	97	57	3	14
9.	15*	1795091	19966	"BIGDB	24	90	3	0	100	60	3	12
10.	15*	1795091	19967	"BIGDB	20	94	2	0	52	57	3	13
11.	11*	59044109	20165	"BIGDB	22	29	0	0	37	65	2	16
12.	11*	627087	19779	"BIGDB	26	58	2	0	310	62	2	14
13.	11*	4359460	20032	"BIGDB	25	57	2	0	44	65	2	14
14.	11*	542858	19896	"BIGDB	27	67	2	0	37	65	2	14
15.	11*	542858	19895	"BIGDB	22	68	2	0	35	64	2	13
16.	11*	1118009	19965	"BIGDB	23	74	3	0	139	65	2	12

FMGR : NEW



See attached.

HG 6/2/94

UNKNOWN #,11

RT 12.64 AREA = 748845.0 RESPONSE FACTOR IS 42.00

DATA FILE: >B4108::07 DATE/TIME: 5/25/94 2[illegible]:55 MASS SPEC # 1

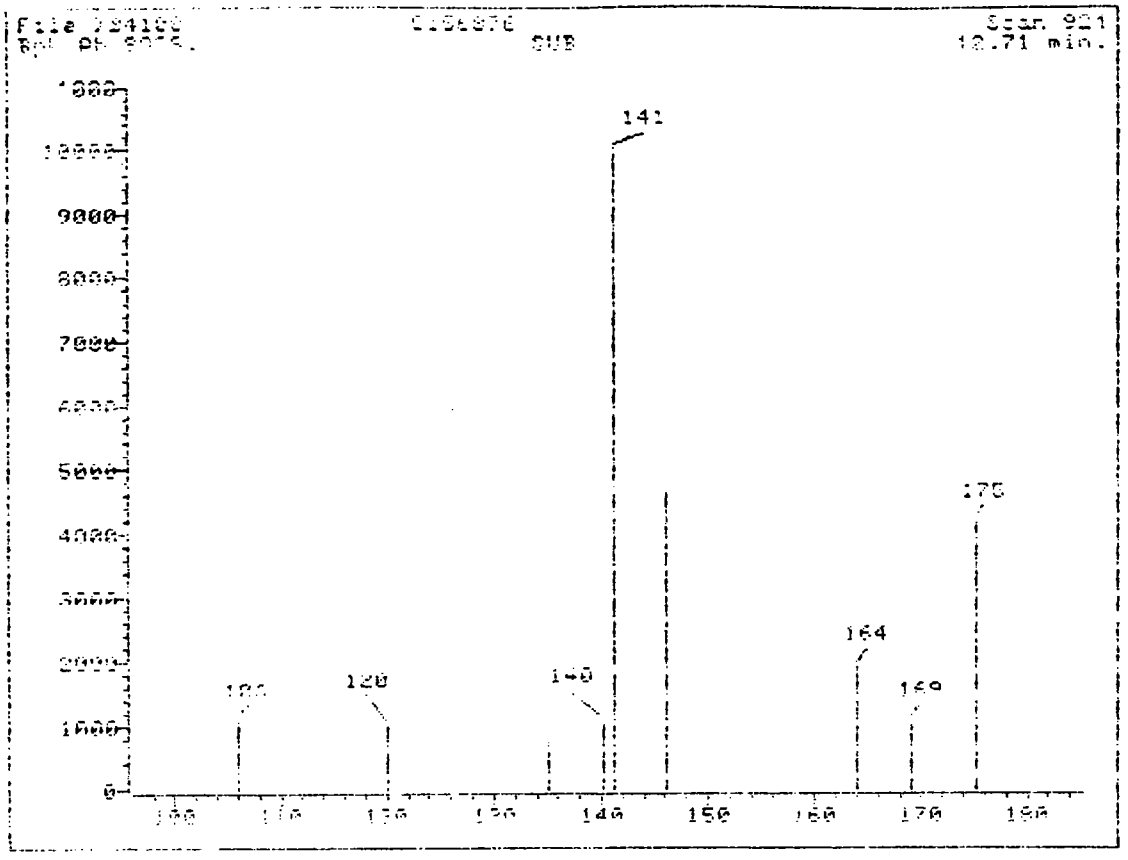
Sample File: >B4108 Spectrum #: 918

No data base entries were retrieved.

1. 2-Pentanol, 2-methyl- 102 C6H14O
2. 2-Pentanol, 2-methyl- 102 C6H14O
3. 5-TRIDEUTEROMETHYLTETRAZOLE 0
4. Pentane, 2-methoxy- 102 C6H14O

Sample file: >B4108 Spectrum #: 918
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59	590363	6969	"BIGDB	51	39	0	0	72	21	27	30
2.	55	590363	6972	"BIGDB	47	44	0	0	70	21	22	27
3.	40*	26087525	6990	"BIGDB	39	57	2	0	73	29	14	17
4.	31*	6795886	6989	"BIGDB	27	53	0	0	100	44	8	19



See attached. HR 6/2/94.

UNKNOWN #,12

HT = [illegible] AREA = 1244571, RESPONSE FACTOR IS 100.00

DATA FILE: [illegible] DATE/TIME: 5/25/94 [illegible] MASS SPEC # 1

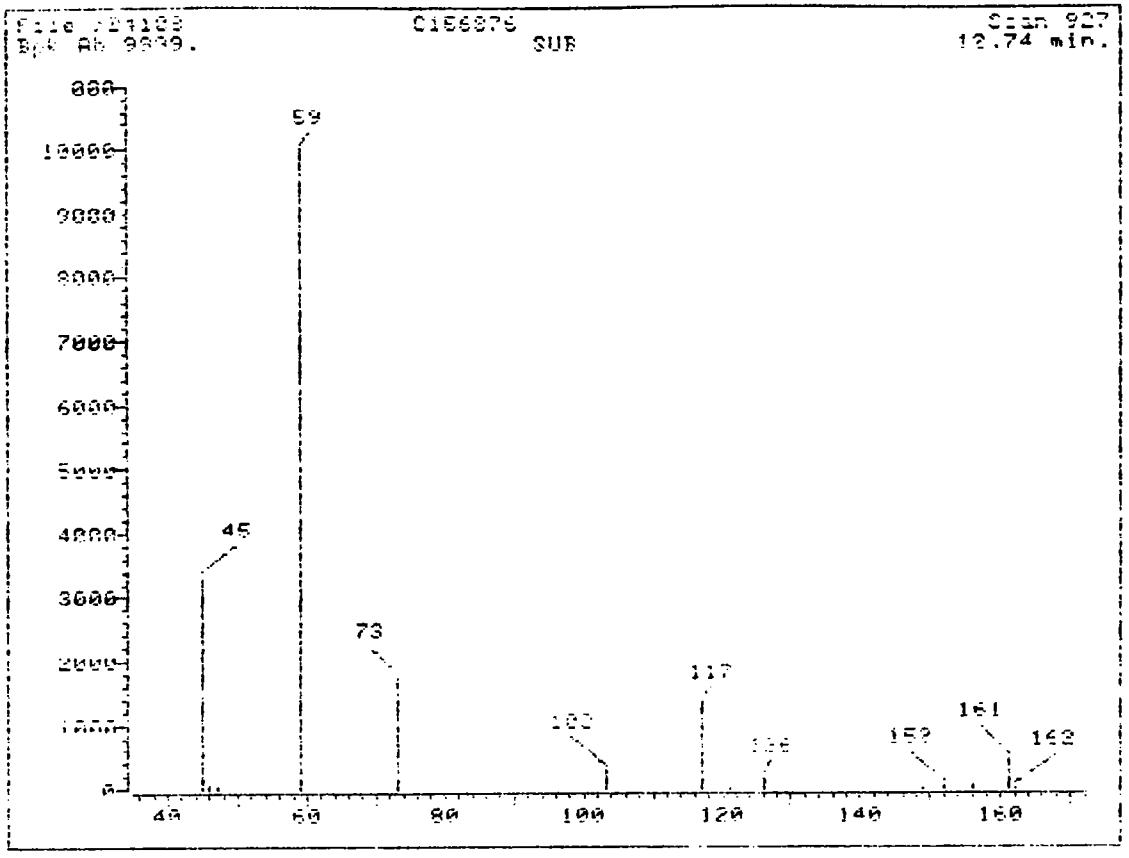
Sample File: [illegible] Spectrum #: 924

No data base entries were retrieved.

1. 2-Pentanol, 2-methyl- 102 C6H14O
2. 2-Pentanol, 2-methyl- 102 C6H14O
3. Silane, ethyldimethyl- 88 C4H12Si
4. 5-TRIDEUTEROMETHYLTETRAZOLE 0

Sample file: >B4108 Spectrum #: 924
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59	590363	6969	"BIGDB	51	39	0	0	83	23	27	30
2.	59	590363	6972	"BIGDB	51	40	0	0	82	23	27	30
3.	36*	758214	6998	"BIGDB	23	75	2	0	100	30	14	13
4.	31*	26087525	6990	"BIGDB	39	57	2	0	76	37	10	17



HB 6/2/94

UNKNOWN # 17

[illegible] = [illegible] AREA = [illegible] RESPONSE FACTOR IS [illegible]

DATA FILE: 184108::D7 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

Sample File: 184108 Spectrum #: 927

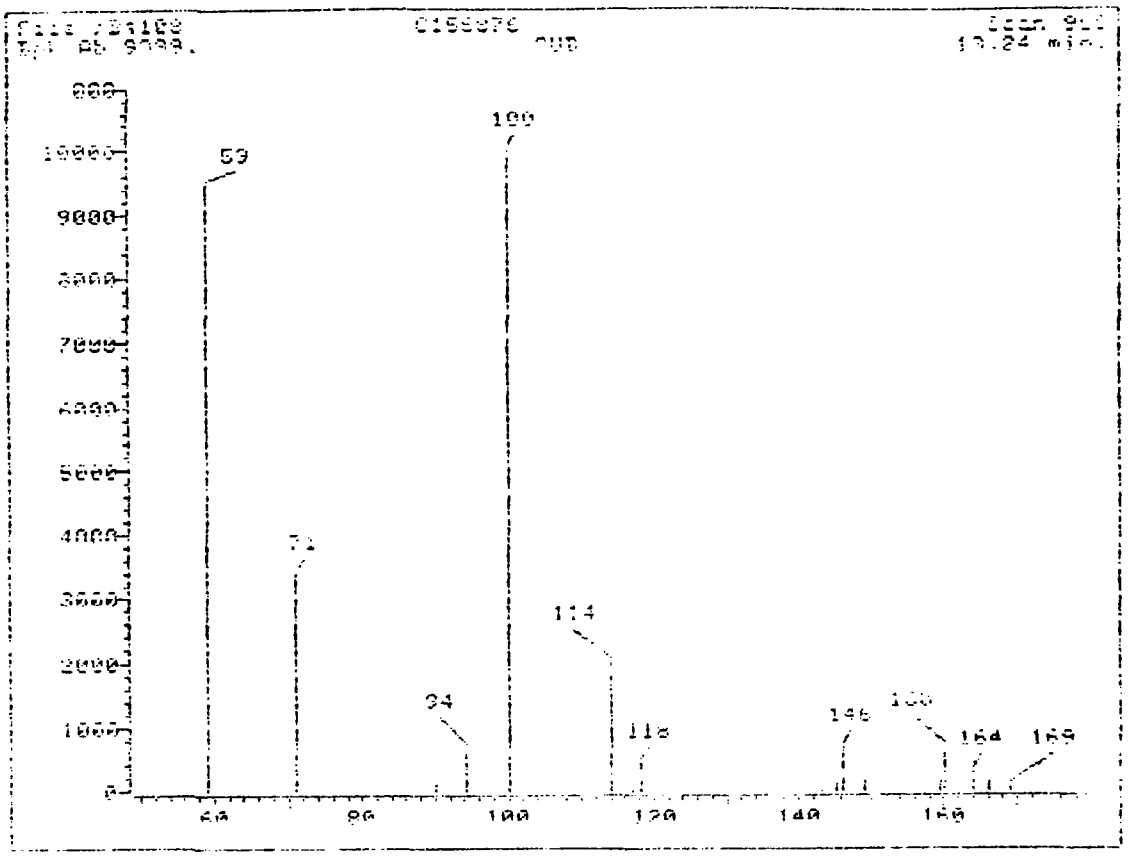
No data base entries were retrieved

1. 2-Pentanol, 2-methyl- 102 C6H14O
2. 2-Pentanol, 2-methyl- 102 C6H14O
3. 5-TRIDEUTEROMETHYLTETRAZOLE 0
4. 2-Pentanol, 2-methyl- 102 C6H14O

Sample file: >B4108 Spectrum #: 927
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	590363	6969	"BIGDB	47	43	0	0	86	20	25	27
2.	58	590363	6972	"BIGDB	47	44	0	0	87	20	25	27
3.	45*	26087525	6990	"BIGDB	46	50	2	0	100	27	19	23
4.	36	590363	6970	"BIGDB	38	47	0	0	100	31	12	19

FMGR :



See attached HR 6/2/94.

UNKNOWN #14

[illegible] 17.94 AREA = [illegible] RESPONSE FACTOR IS 33.00

DATA FILE: [illegible] DATE/TIME: [illegible] MASS SPEC # 1

Sample File: [illegible] Spectrum #: [illegible]

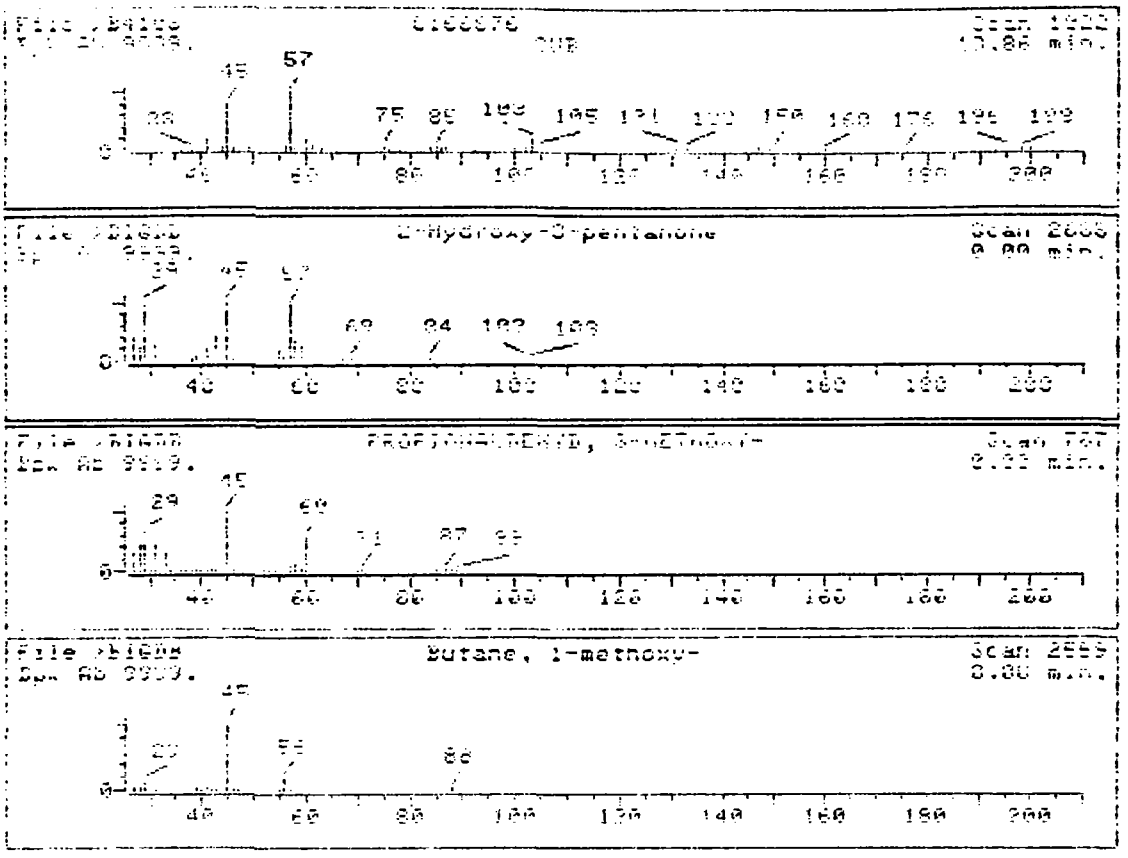
No data base entries were retrieved

001284

1.	Silane, hexyl- (8CI9CI)	116	C6H16Si
2.	1-Propanol, 3-[3-(1-methylethoxy)propoxy]-	176	C9H20O3
3.	Silane, octyl- (8CI9CI)	144	C8H20Si
4.	ETHANAL-N-METHYL-N-FORMYLHYDRAZONE	100	C4H8N2O

Sample file: >B4108 Spectrum #: 969
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	32*	1072146	7173	"BIGDB	37	53	2	0	87	38	10	18
2.	32	54518035	7323	"BIGDB	56	43	2	0	67	32	12	15
3.	31	871921	7196	"BIGDB	51	45	2	0	89	33	12	14
4.	31*	61748069	7058	"BIGDB	25	21	2	0	81	35	12	14



Hcb 6/2/94.

UNKNOWN # 15

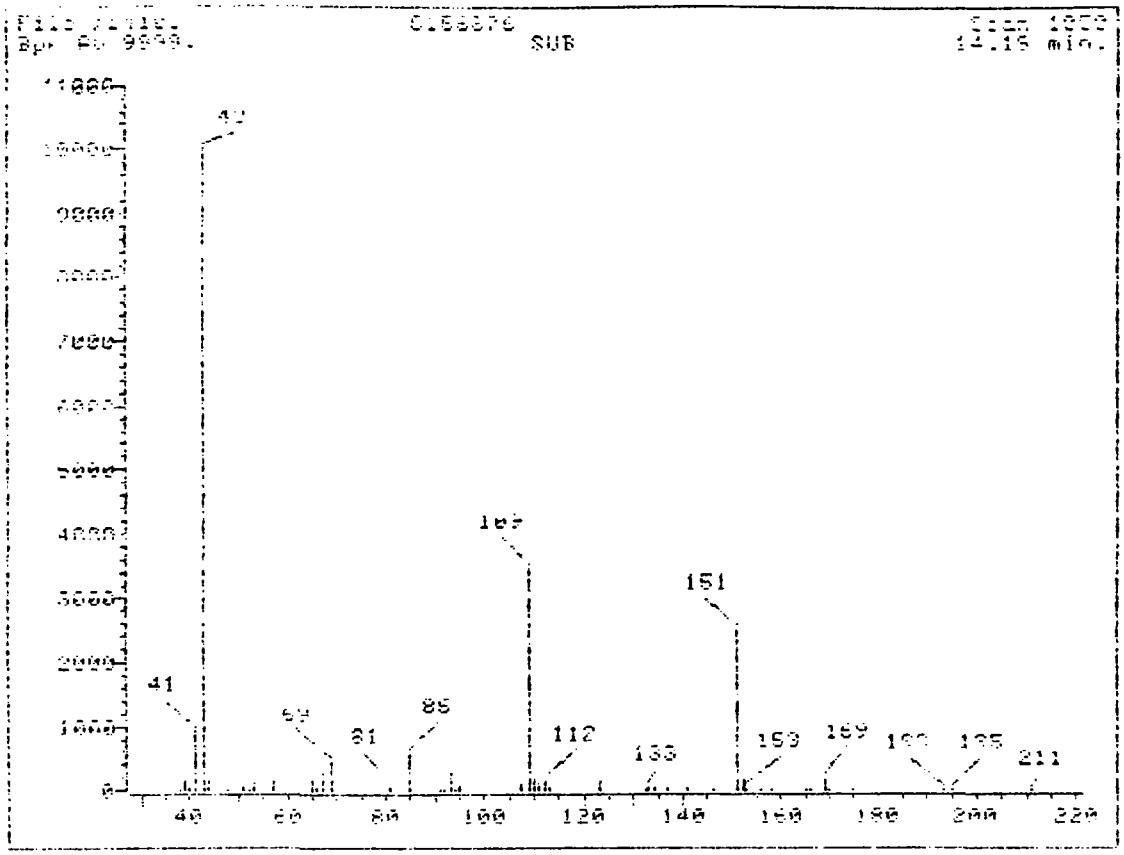
[illegible] AREA - [illegible] RESPONSE FACTOR IS 21.00

DATA FILE: >B4108::D7 DATE/TIME: [illegible] MASS SPEC # 1

1.	2-Hydroxy-3-pentanone	102 C5H10O2
2.	PROPIONALDEHYD, 3-METHOXY-	88 C4H8O2
3.	Butane, 1-methoxy-	88 C5H12O
4.	Butane, 1-methoxy-	88 C5H12O

Sample file: >B4108 Spectrum #: 1022
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	PK	#FLG	TILT	%	CON	C_I	R_IU
1.	52*	5704201	2685	"BIGDB	20	88	2	0	78	18	20	13
2.	20*	0	787	"BIGDB	23	79	3	0	79	51	5	12
3.	15*	628284	2559	"BIGDB	25	47	2	0	54	54	3	14
4.	15*	628284	2556	"BIGDB	20	61	2	0	55	56	3	13



HQ 6/2/94

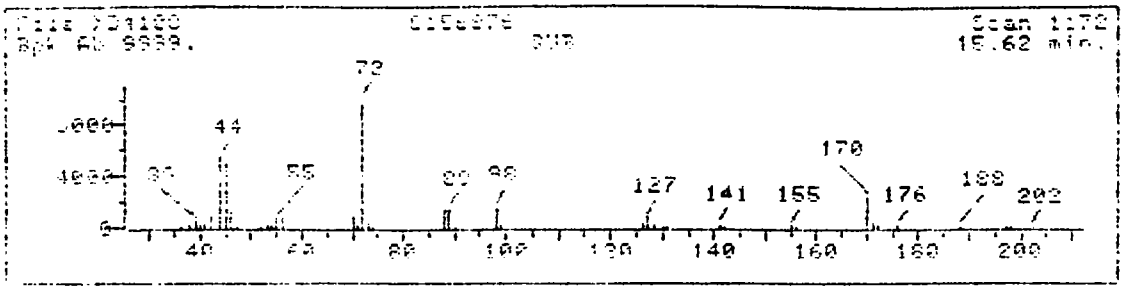
UNKNOWN # 14

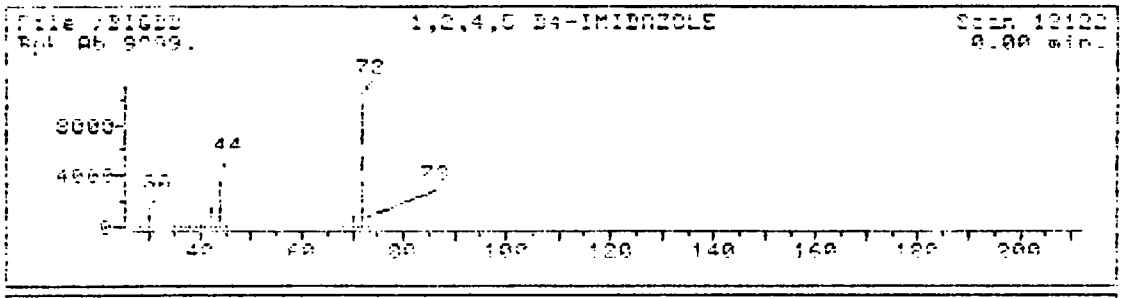
PI - 14.19 AREA - 893171.0 RESPONSE FACTOR IS 49.00

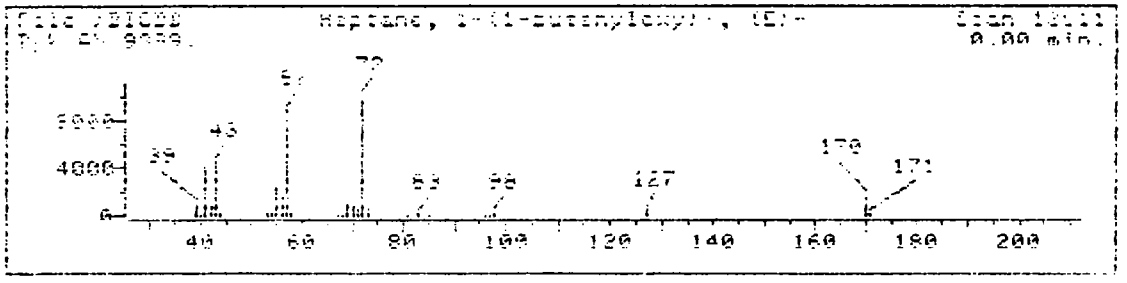
DATA FILE: 184100::D7 DATE/TIME: 5/25/94 22:5[illegible] MASS SPEC # 1

Sample file: 184100 Spectrum #: 1050

No data base entries were retrieved.







AG. 6/2/94.

UNKNOWN # 17

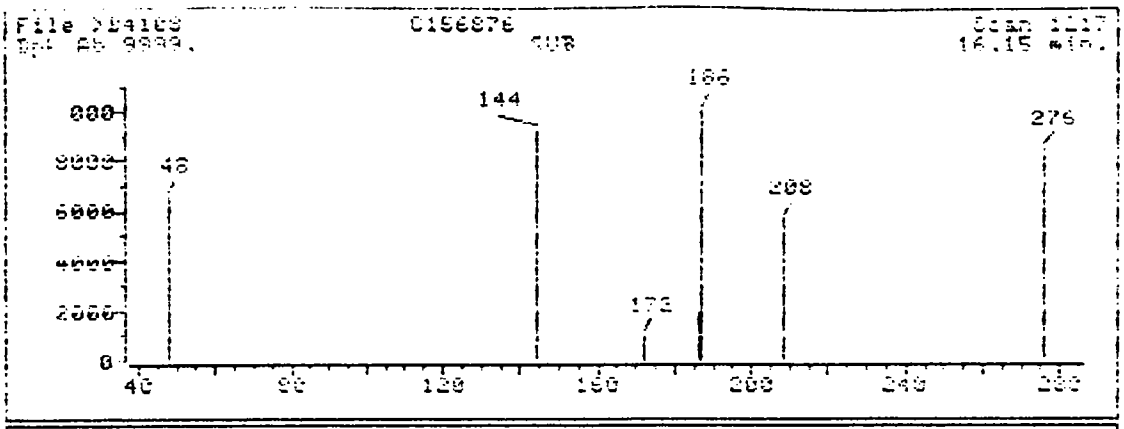
RT = 15.62 AREA = 1376450, RESPONSE FACTOR IS 76.00

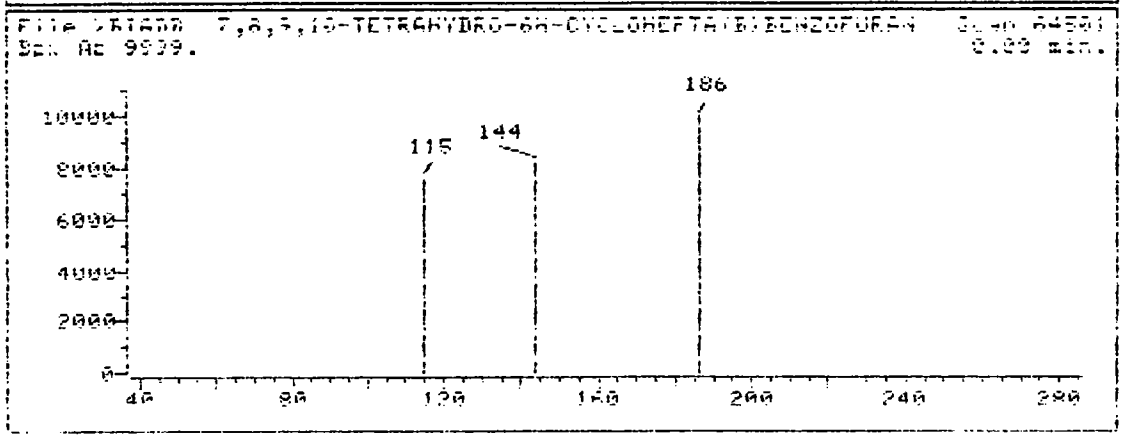
DATA FILE: >B4108::07 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

1. 1,2,4,5-D4 IMIDAZOLE 0
2. Heptane, 1-(1-butenyloxy)-, (E)- 170 C11H22O

Sample File: >B4108 Spectrum #: 1172
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	20*	6923019	13122	"BIGDB	26	44	1	0	67	54	5	14
2.	20*	56052803	13611	"BIGDB	33	59	3	0	100	52	5	13





sec 6/2/94

UNKNOWN # 18

VI = 16.15 AREA = 524708.0 RESPONSE FACTOR IS 99.00

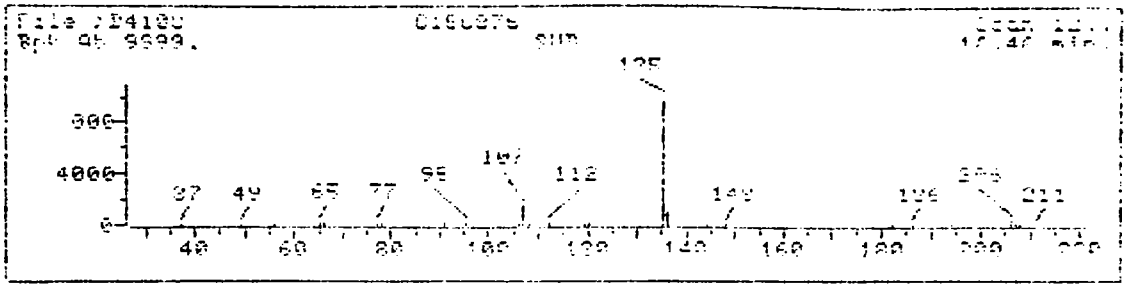
DATA FILE: >B4108::D2 DATE/TIME: 5/25/94 2[illegible]:5[illegible] MASS SPEC # 1

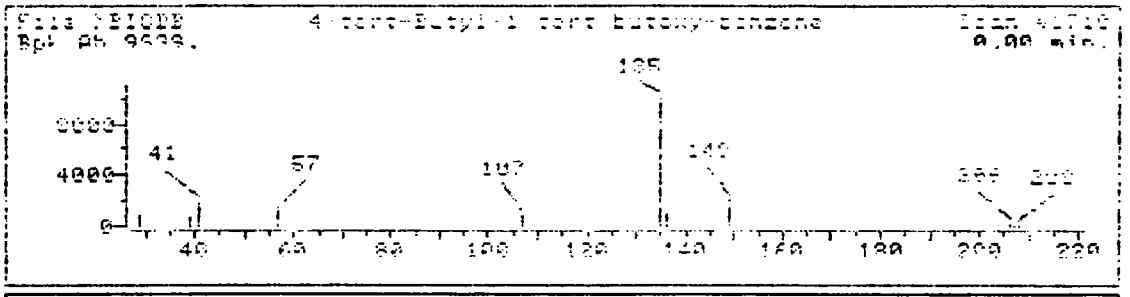
1. 7,8,9,10-TETRAHYDRO-6H-CYCLOHEPTA(B)BENZOFURAN 186 C17H14O

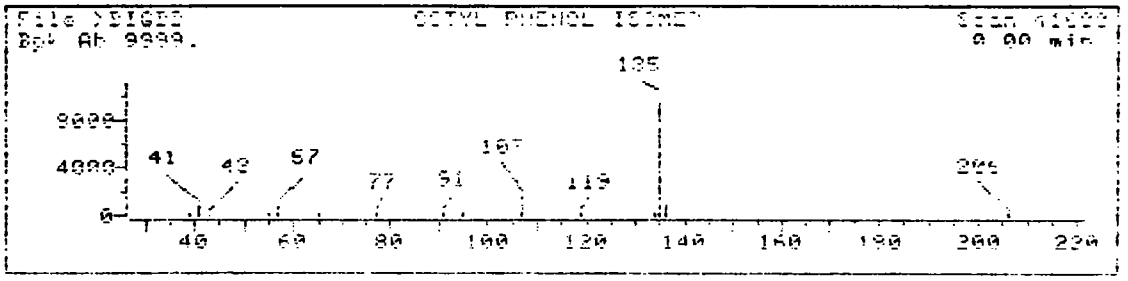
Sample file: >B4108 Spectrum #: 1217

Search speed: 1 Tilting option: N No. of ion ranges searched: 99

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	S_I	P_IU
1.	25*	5010797	64501	"BIGOB	20	10	1	0	100	50	7	14







ua 6/2/94.

UNKNOWN # 10

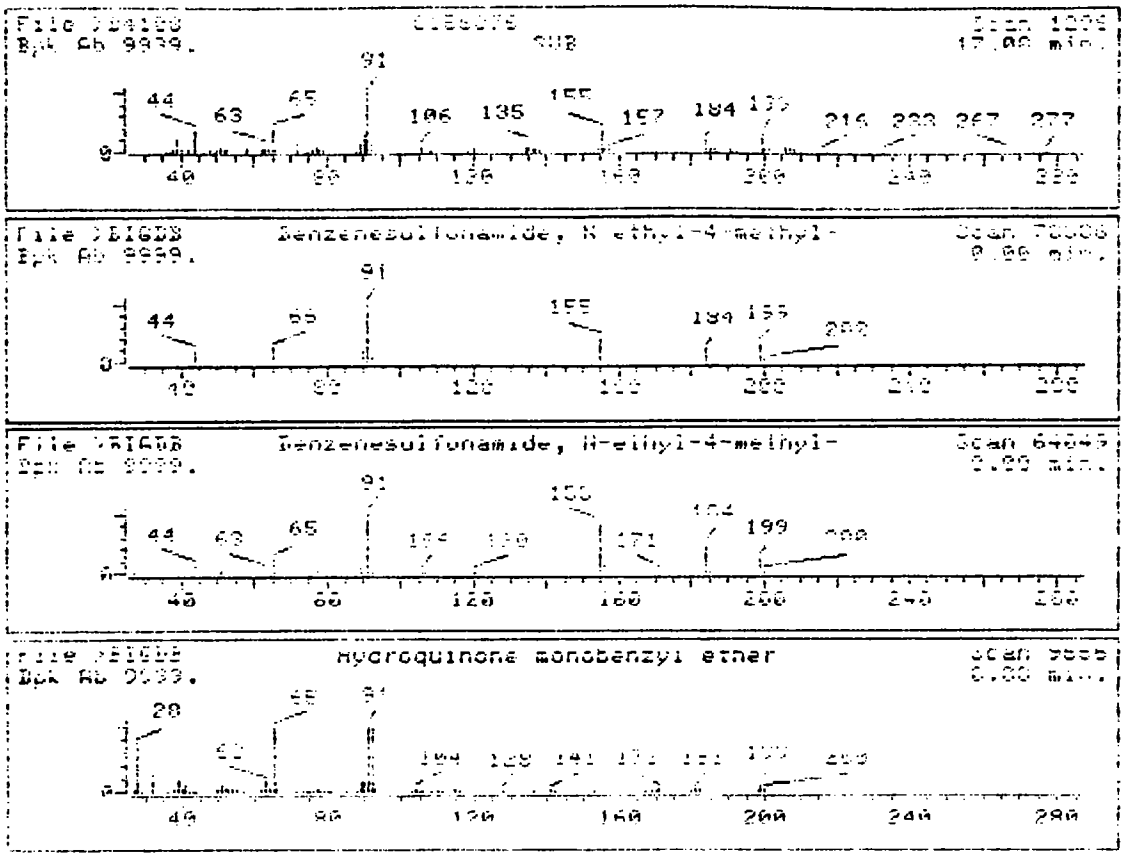
RT = 14.46 AREA = 373014.0 RESPONSE FACTOR IS 94.00

DATA FILE: >B4108::07 DATE/TIME: 5/25/94 20:55 MASS SPEC # 1

1. 4-tert-Butyl 1 tert butoxybenzene 206 C14H22O
2. OCTYL PHENOL ISOMER 206 C14H22O

Sample file: >B4108 Spectrum #: 1244
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	DOS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	70*	0	41710	"BIGDB	24	39	3	0	100	10	42	12
2.	70*	0	41600	"BIGDB	28	48	2	0	92	10	42	14



HB 6/2/94.

UNKNOWN # 21

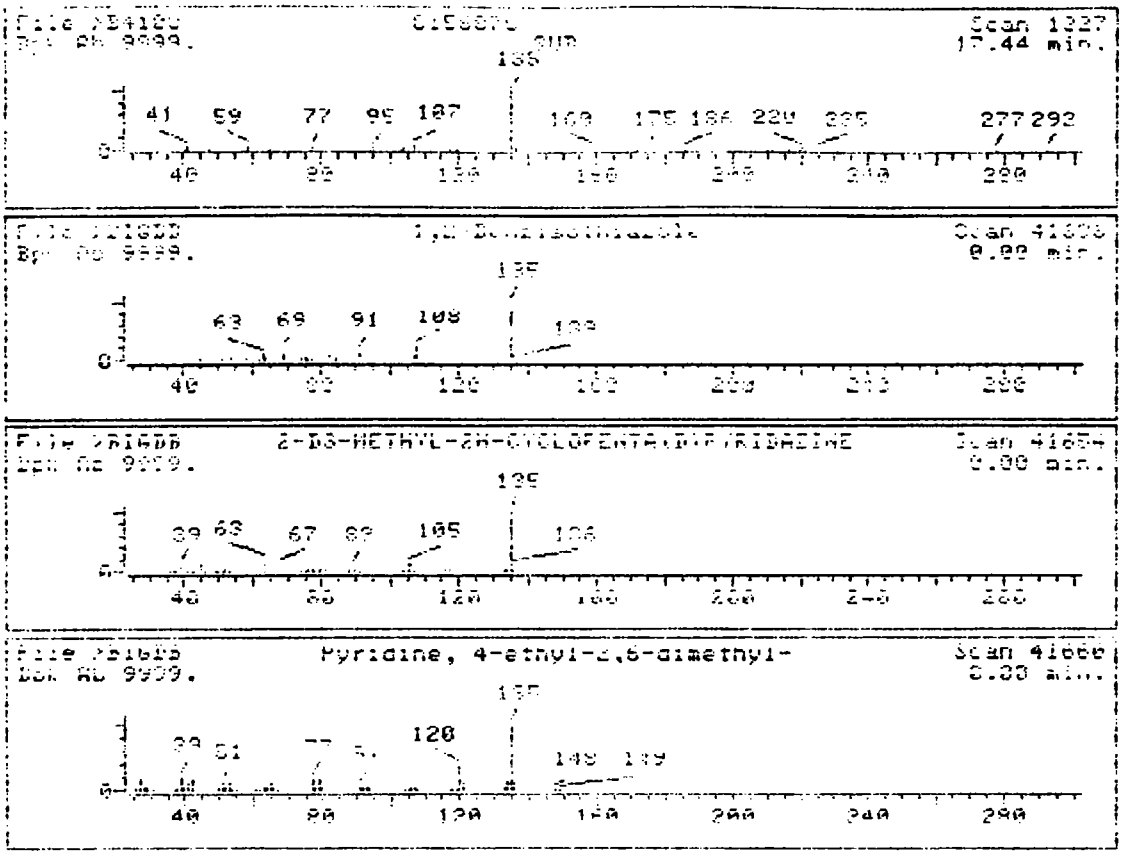
[illegible]

DATA FILE: [illegible] DATE/TIME: [illegible] MASS SPEC # [illegible]

1	Benzenesulfonamide, N-ethyl-4-methyl-	199 C9H13NO2S
2	Benzenesulfonamide, N-ethyl-4-methyl-	199 C9H13NO2S
3	Hydroquinone monobenzyl ether	200 C13H12O2
4	Benzenesulfonamide, N-ethyl-4-methyl-	199 C9H13NO2S
5	Cycloheptadienylium, iodide	218 C7H7I

Sample file: [illegible] Spectrum #: 1296
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IU
1.	66*	80397	70506	"BIGDB	52	23	0	0	78	50	20	76
2.	20*	80397	64049	"BIGDB	33	81	3	0	100	52	5	13
3.	15*	103162	9556	"BIGDB	33	71	3	0	40	59	3	13
4.	11*	80397	64048	"BIGDB	34	66	2	0	49	62	2	14
5.	11	1316809	9437	"BIGDB	56	44	2	0	57	62	2	14



file 6/2/94.

UNKNOWN # 22

[illegible] 17.44 AREA = [illegible] RESPONSE FACTOR IS 30.00

DATA FILE: >B4108::D7 DATE/TIME: 5/25/94 22:55 MASS SPEC # 1

1. 1,2-Benzisothiazole 135 C7H5NS
2. 2-D3-METHYL-2H-CYCLOPENTA(D)PYRIDAZINE 0
3. Pyridine, 4-ethyl-2,6-dimethyl- 135 C9H13N

Sample file: >B4108 Spectrum #: 1327
Search speed: 1 Tilting option: N No. of ion ranges searched: 38

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	272162	41696	"BIGDB	22	70	3	0	100	17	20	12
2.	52*	24340850	41654	"BIGDB	22	77	3	0	100	17	20	12
3.	52*	36917369	41660	"BIGDB	22	86	3	0	100	17	20	12

001292

HO 5/26/94

QUANT REPORT

Operator ID: [illegible]
Output File: [illegible]
[illegible]
[illegible]
Misc:

Quant Rev: 7
Quant Time: 940526 00:25
Injected at: 940525 23:44
Dilution Factor: 1.00000
Instrument ID: MSD102
BTL#11

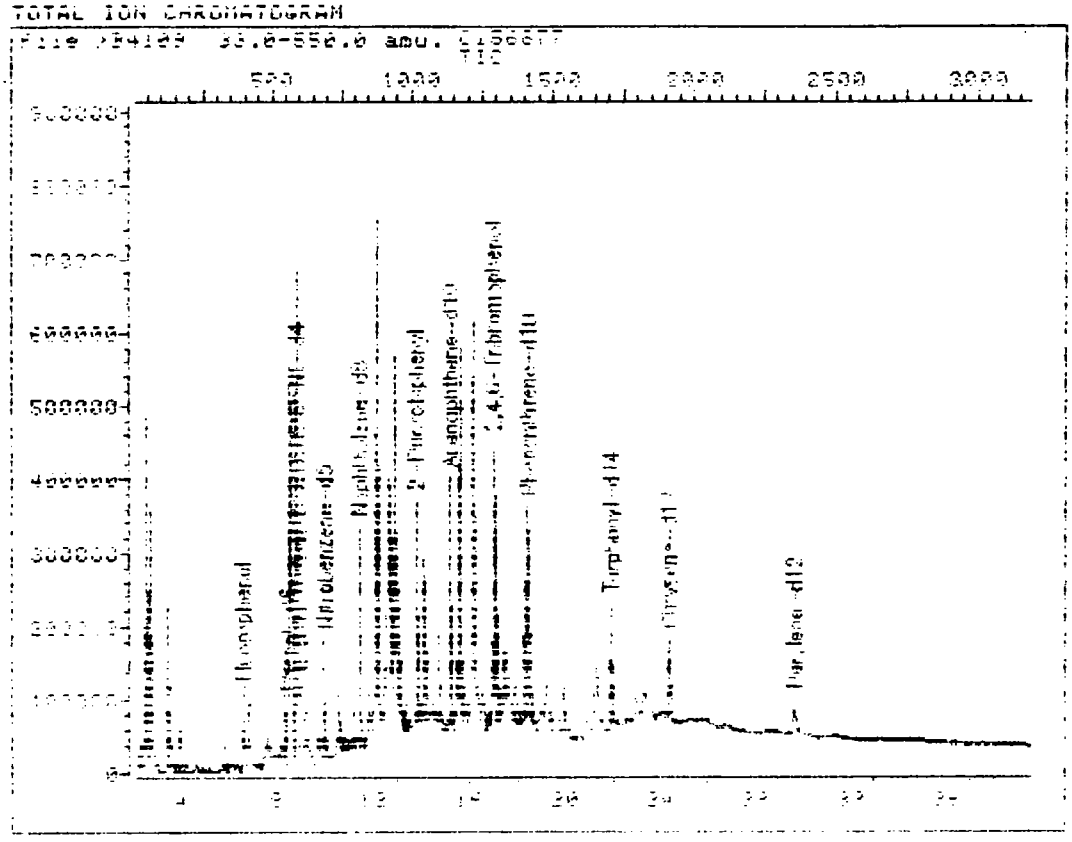
OK

ID File: IDSW01::C:
Title: SEMI-VOLAT LEG ID FILE - INST. #102
Last Calib at or: 940724 09:57
Last Qual Time: 940525 13:34

	Compound	R.T.	Q ion	Area	Conc	Units		q
1)	*1,4-DICHLOROBENZENE-d4	9.81	152.0	63193	40.00	UG/L		96
4)	2-Fluorophenol	6.49	112.0	72907	40.42	UG/L		91
6)	bis(2-chloroethyl)ether	9.21	93.0	3814	2.16	UG/L	BDL	100
10)	Phenol-d6	8.44	99.0	72128	29.07	UG/L		82
14)	bis(2-chloroisopropyl)ether	9.30	45.0	9126	1.99	UG/L	BDL	100
18)	*Naphthalene-d8	11.44	136.0	252229	40.00	UG/L		96
20)	Isophorone	10.50	82.0	32545	7.48	UG/L		91
22)	Nitrobenzene-d5	9.95	82.0	83429	35.42	UG/L		97
23)	2,4-Dimethylphenol	10.91	107.0	3852	[illegible]	UG/L	BDL	[illegible]
29)	Naphthalene	11.49	128.0	4604	[illegible]	UG/L		100
31)	4-Chloro-3-methylphenol	12.95	107.0	4019	[illegible]	UG/L		100
33)	*Acenaphthene-d10	15.21	164.0	162894	40.00	UG/L		100
35)	2-Fluorobiphenyl	13.78	172.0	182496	41.23	UG/L		95
44)	2,6-Dinitrotoluene	14.79	165.0	24852	16.30	UG/L		100
52)	Diethylphthalate	16.21	149.0	10779	[illegible]	UG/L	BDL	100
56)	2,4,6-Tribromophenol	16.97	329.8	99217M	58.06	UG/L		100
[illegible]	*Phenanthrene-d10	18.43	188.0	255528	40.00	UG/L		100
61)	Benzidine	16.79	77.0	4384	1.00	UG/L	BDL	65
78)	Di-n-butylphthalate	19.75	149.0	19749	2.94	UG/L		97
79)	*Chrysene-d12	24.31	240.0	132409	40.00	UG/L		100
91)	bis(2-ethylhexyl)phthalate	24.34	149.0	4669	2.30	UG/L	BDL	99
93)	Terphenyl-d14	21.90	244.0	141465	38.52	UG/L		100
94)	*Perylene-d12	29.65	264.0	123097	40.00	UG/L		100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



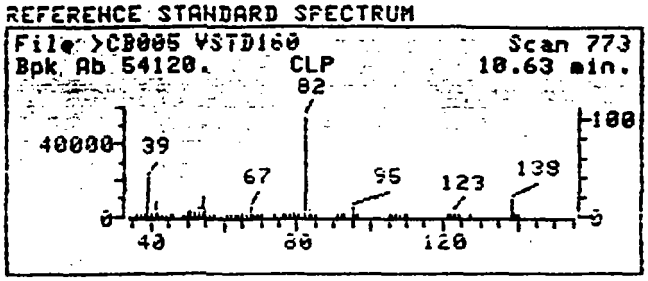
Data File: [illegible]
Name: C156877
Misc:

Quant Output File: [illegible]
Instrument ID: MSD102
STL#11

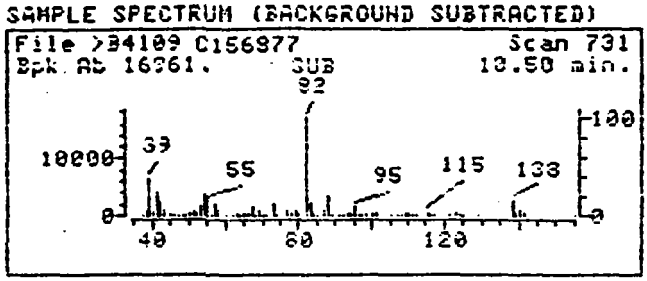
Id File: [illegible]
Meter: SEMI-VOLATILES ID FILE - INST #102
Last Calibration: [illegible]
Last Cal Time: [illegible]

Operator ID: [illegible]
Quant Time : 940526 00:25
Injected at: 940525 23:44

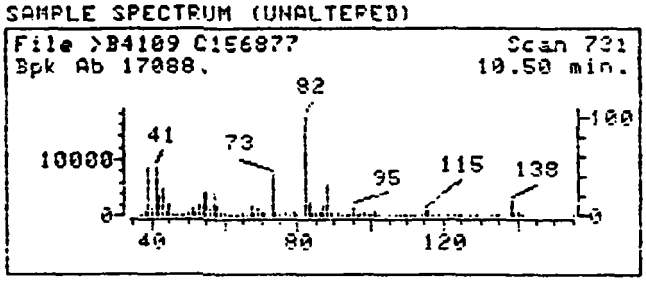
REFERENCE STANDARD SPECTRUM

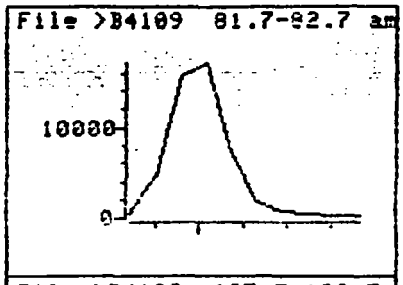


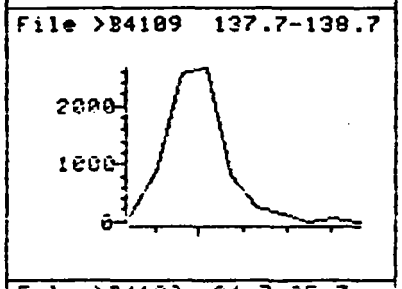
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

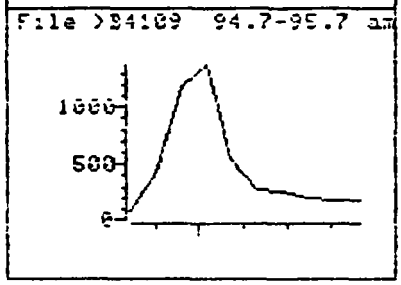


SAMPLE SPECTRUM (UNALTERED)









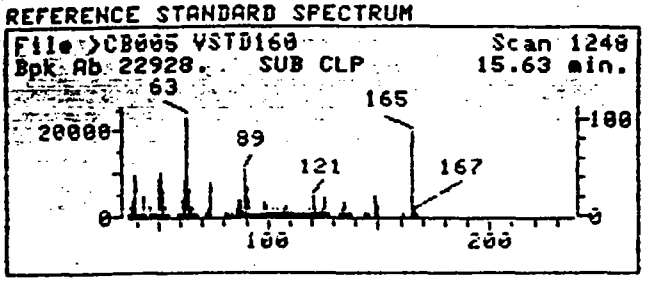
Data File: >B4109::D7
Name: C156977
Misc:
Quant Time: 940526 00:25
Injected at: 940525 23:44
Last Qcal Time: 940525 13:34

Quant Output File: ^B4109::D5
Instrument ID: MSD102
BTL#11
Quant ID File: IDSU01::D6
Last Calibration: 940324 08:57

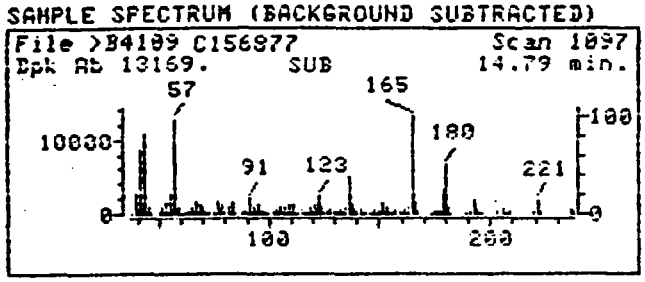
Compound No : 20
Compound Name : Isophorone
Scan Number : 731
Retention Time: 10.50 min.
Quant Ion : 82.0
Area : 32545
Concentration : 7.48 UG/L
q-value : 91

per 5/27/94.

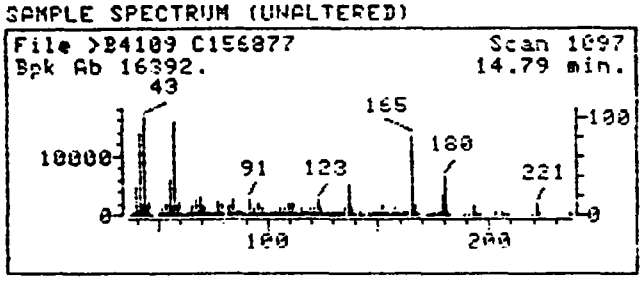
REFERENCE STANDARD SPECTRUM

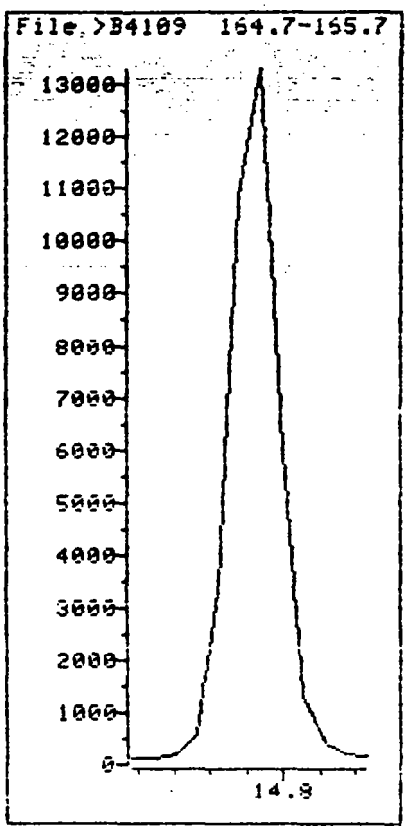


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >B4109::D7
Name: C156877
Misc:
Quant Time: 940526 00:25
Injected at: 940525 23:44
Last Qcal Time: 940525 13:34

Quant Output File: ^B4109::D5
Instrument ID: MSD102
BTL#11
Quant ID File: IDSV01::D4
Last Calibration: 940324 08:57

Compound No : 44
Compound Name : 2,6-Dinitrotoluene
Scan Number : 1097
Retention Time: 14.79 min.
Quant Ion : 165.0
Area : 24852
Concentration : 16.30 UG/L
q-value : 100

MG 5/27/94.

877

MS data file header from : >B4109::D7

Sample: C156877 Operator: HAIYAN REG. GRP. 5/25/94 23:44
Misc : BTL#11
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 11 Equip ID: MSD102
Method file: BNA1M Tuning file: DFT1T No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	0.	0.	0.
Chromatographic times, min. :	3.0	14.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	.5	0.0

>B4109 C156877
33.0! 550.0 CLP TIC
Upslope: .2000 Area Reject: 27603. Max Peaks: ZZ Bunch: 1 Valley >100 %
Dnslope: 0.0000 Results File IB4109 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	2.46	33	40	42	472989	1713151	1635781	85.44	9.722
2	2.58	47	50	62	349160	815583	718509*	37.53	4.270
3	3.31	109	113	119	225466	402654	378500	19.77	2.250
4	8.58	565	566	576	435662	802062	697864	36.45	4.148
5	8.77	576	582	583	612814	1431805	1356078	70.83	8.060
6	9.20	613	619	624	339994	1197092	1056850	55.20	6.281
7	12.13	865	870	873	694703	2257545	1914446*	100.00	11.378
8	12.62	908	912	914	301338	1140284	809387*	42.28	4.810
9	12.67	914	916	920	316912	1460367	1118717*	58.44	6.649
10	12.72	920	921	927	231877	879668	465166*	24.30	2.765
11	12.91	936	937	938	365508	425257	306672	16.02	1.823
12	13.10	948	953	957	180878	878295	426975	22.30	2.538
13	13.91	1016	1022	1030	69506	983254	365868	19.11	2.174
14	14.15	1039	1043	1051	227485	1122014	575864*	30.08	3.423
15	15.57	1157	1164	1167	513020	2150224	1644145*	85.88	9.772
16	15.69	1171	1174	1179	168599	744837	349954	18.28	2.080
17	16.14	1207	1212	1214	522205	1863521	1384961*	72.34	8.231
18	17.58	1331	1335	1340	90938	893333	379544*	19.83	2.256
19	18.26	1389	1393	1395	115953	583661	282181	14.74	1.677
20	18.32	1395	1398	1400	184212	619212	351649*	18.37	2.090
21	19.20	1469	1473	1482	60836	873004	295071	15.41	1.754
22	21.25	1635	1647	1648	60838	824357	~~311260~~ 702024	16.26	1.850

Sum of corrected areas: 16825452. See attached.

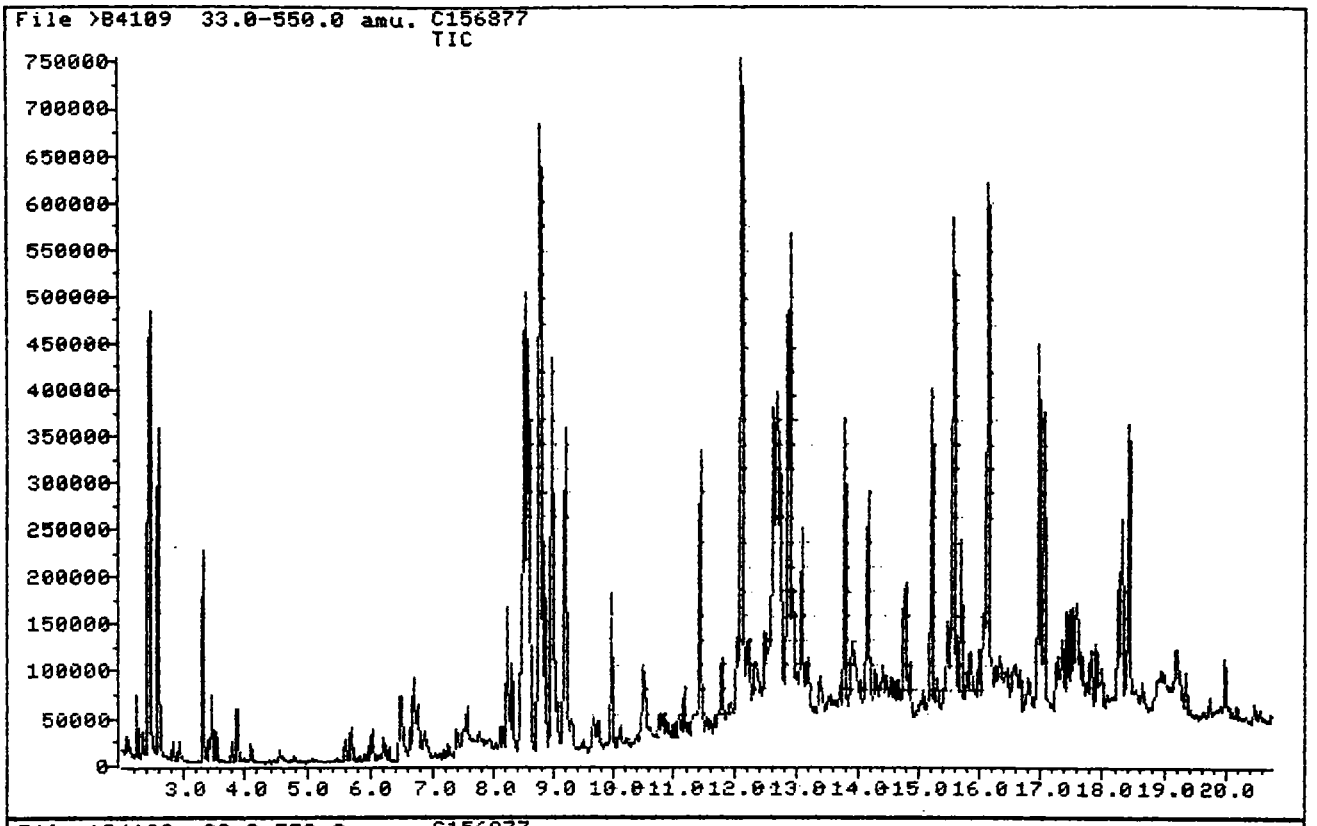
Summary of Unknowns PBM Library Search and Quantitation

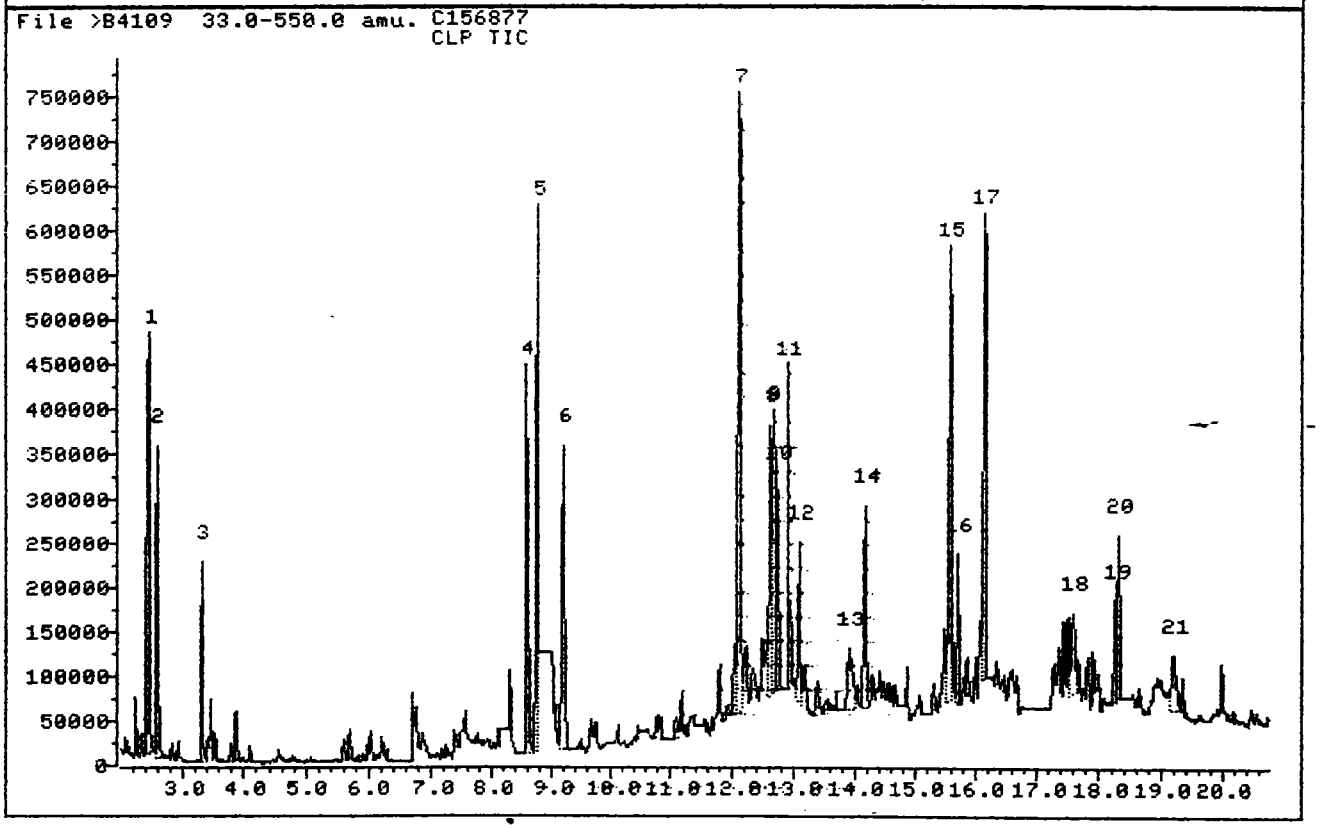
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	280242.	8.81	2.01 - 10.13
2	40.0	667085.	11.44	10.13 - 13.32
3	40.0	748104.	15.21	13.32 - 16.82
4	40.0	702009	18.43	16.82 - 21.37

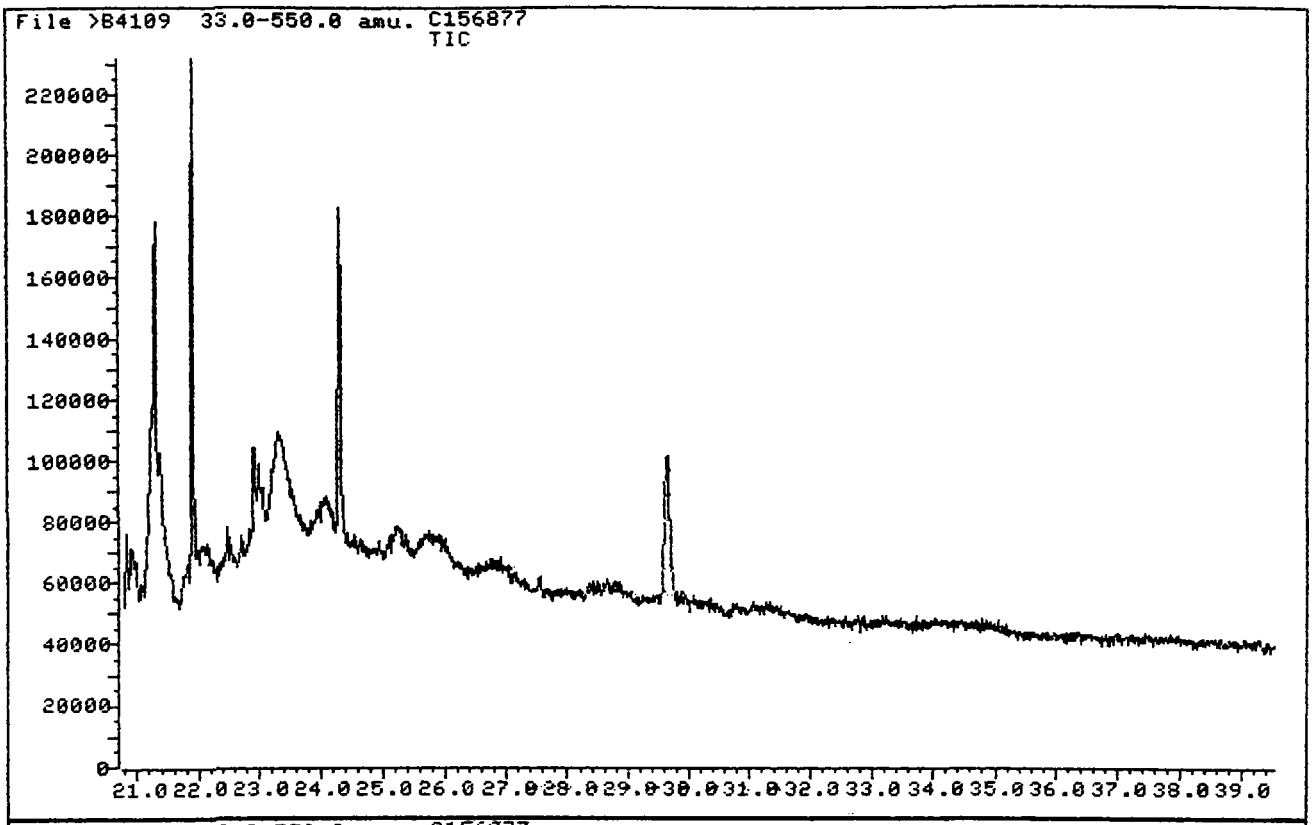
001297

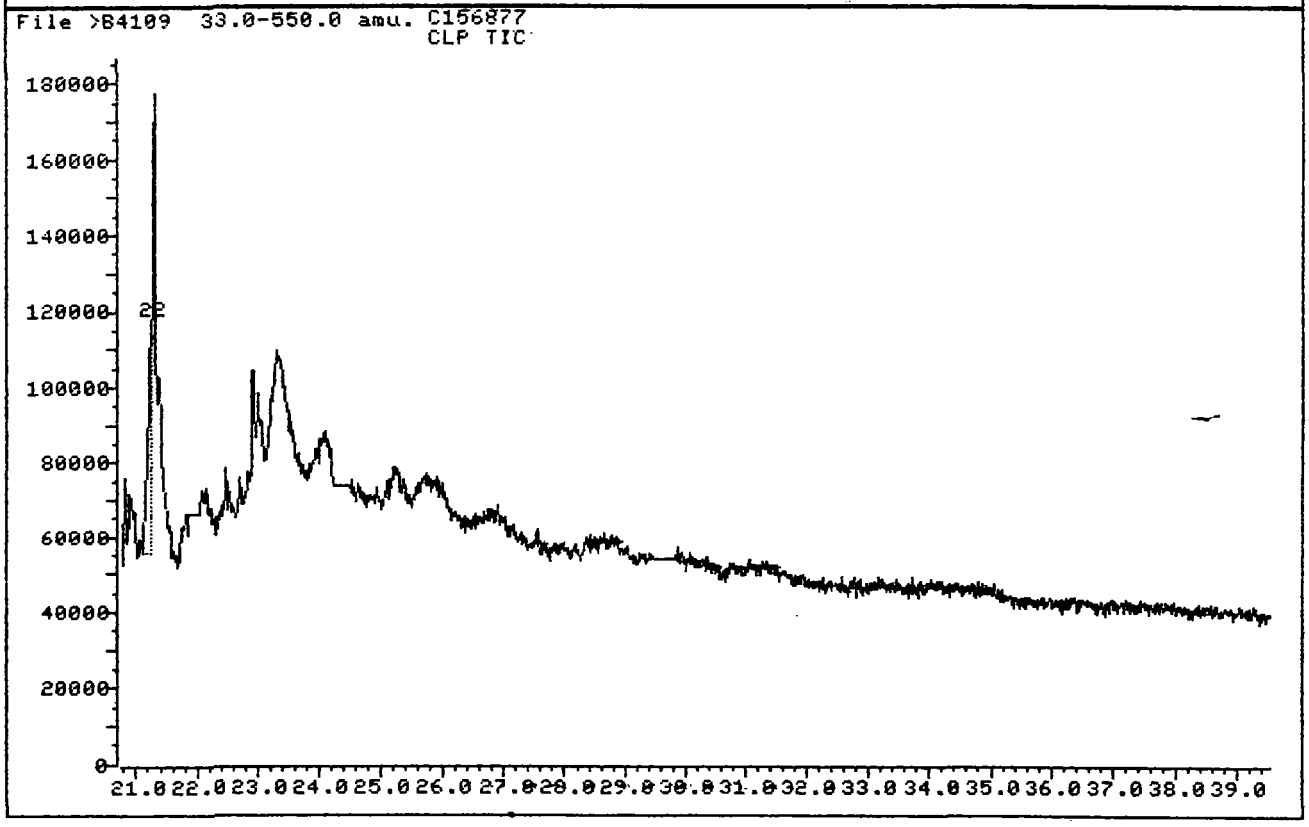
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

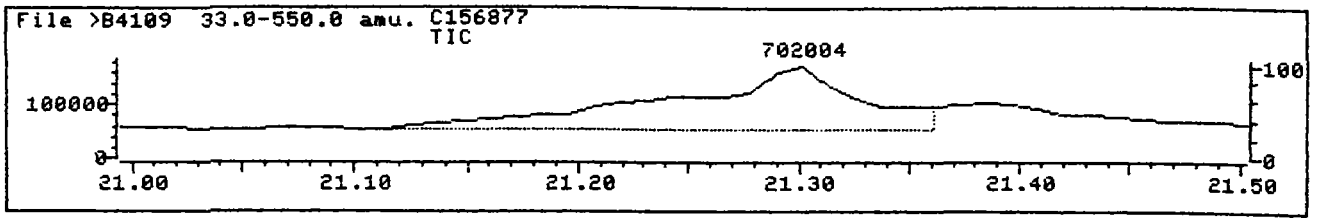
12:09 AM THU., 2 JUNE, 1994


File >B4109 33.0-550.0 amu. C156877
TIC
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0


File >B4109 33.0-550.0 amu. C156877
CLP TIC
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
1
2
3
4
5
6
7
11
12
13
14
15
6
17
18
19
20
21
3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0


File >B4109 33.0-550.0 amu. C156877
TIC
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0


File >B4109 33.0-550.0 amu. C156877
CLP TIC
180000
160000
140000
120000
22
100000
80000
60000
40000
20000
0
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0

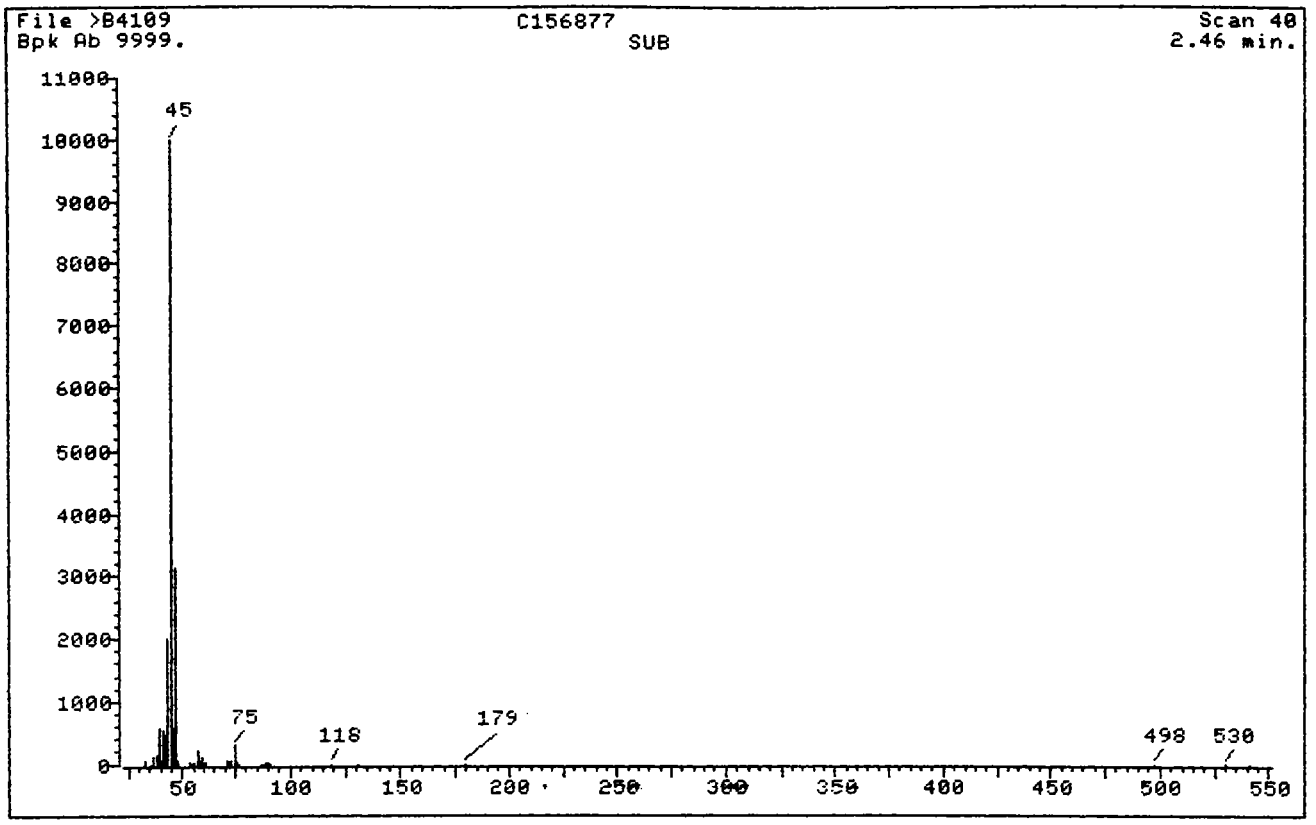


INT,,,,-1

>B4109 C156877
33.0| 550.0 TIC
Upslope: .2000 Area Reject: 5.00 % Max Peaks: 1 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IB4109 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	21.30	1635	1651	1656	121898	1530998	702004	100.00	100.000

Sum of corrected areas: 702004.



See attached HO 6/3/94.

UNKNOWN #,1

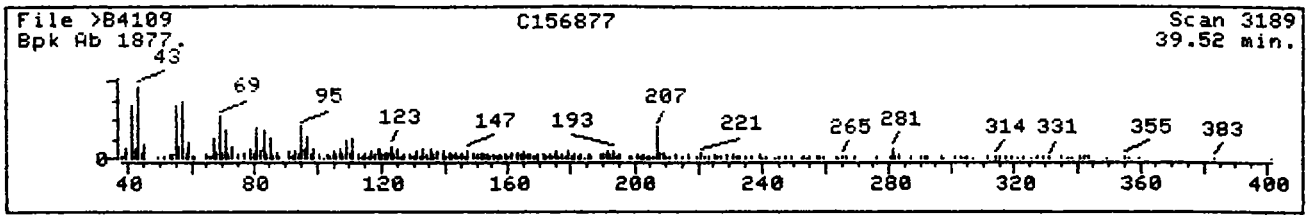
RT = 2.46 AREA = 1635781. RESPONSE FACTOR IS 230.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

Sample file: >B4109 Spectrum #: 40

No data base entries were retrieved.

FMGR : NEW

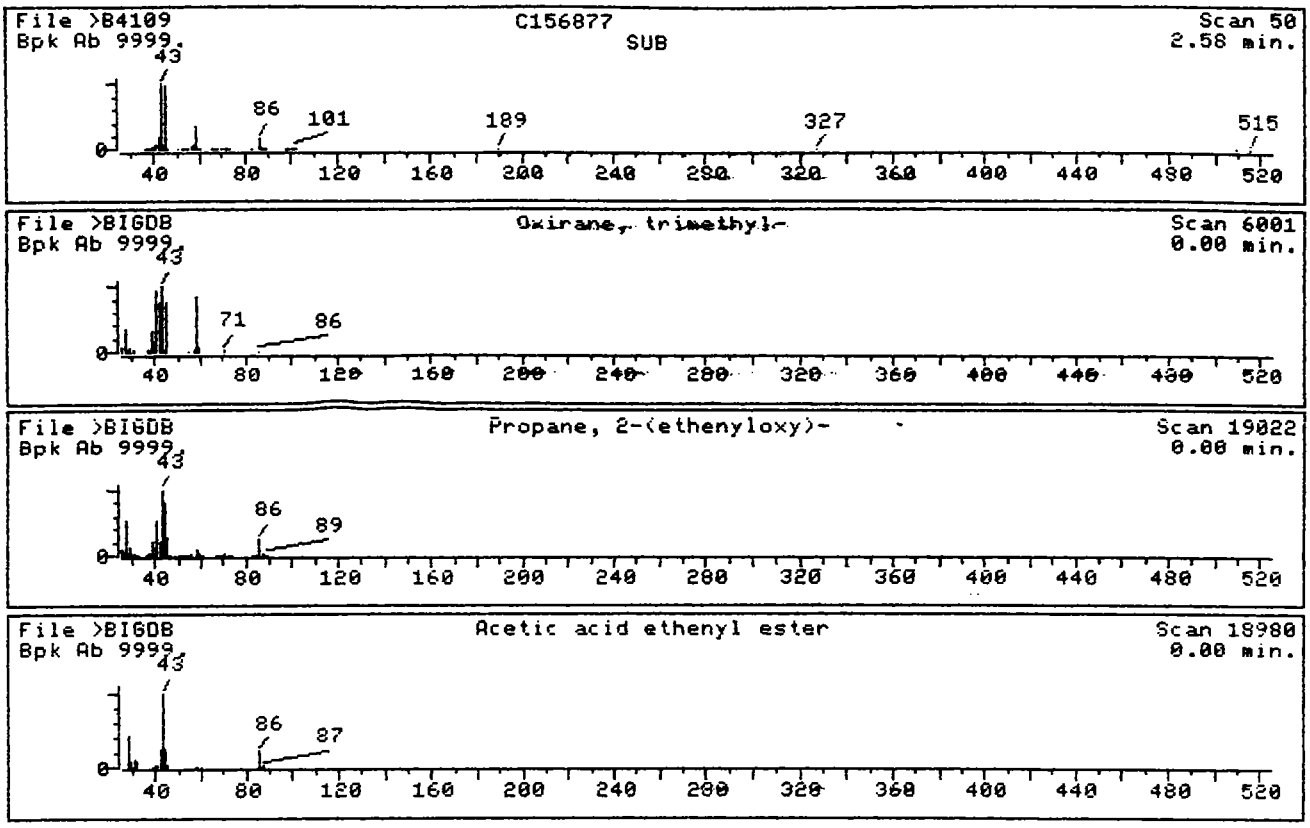


unknown HC 6/3/94

1. ISOLONGIFOL-8-OL 222 C15H26O
2. TRIVINYL-S-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE 207 C9H9N3O3
3. Propanamide, N-(4-methoxyphenyl)-2,2-dimethyl- 207 C12H17NO2

Sample file: >B4109 Spectrum #: 3189
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25	0	74349	*BIGDB	70	79	2	0	41	50	7	16
2.	25*	0	74208	*BIGDB	32	71	2	0	55	50	7	14
3.	25*	56619944	74266	*BIGDB	34	77	3	0	130	50	7	13



MC 6/3/94.

UNKNOWN #,2

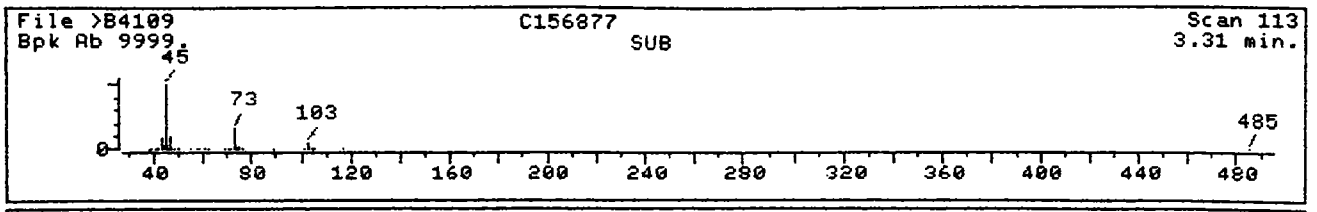
RT = 2.58 AREA = 718509.0 RESPONSE FACTOR IS 100.00

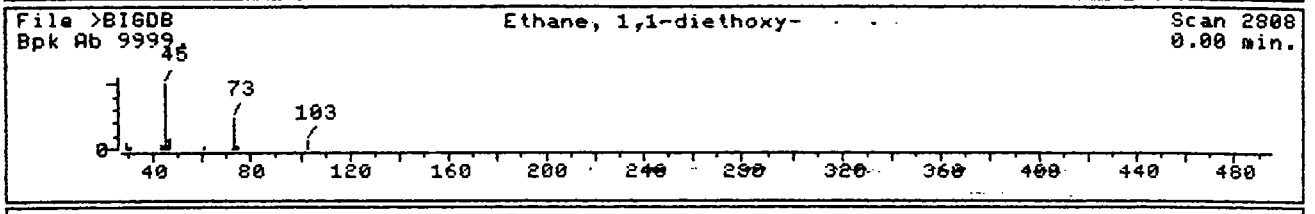
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

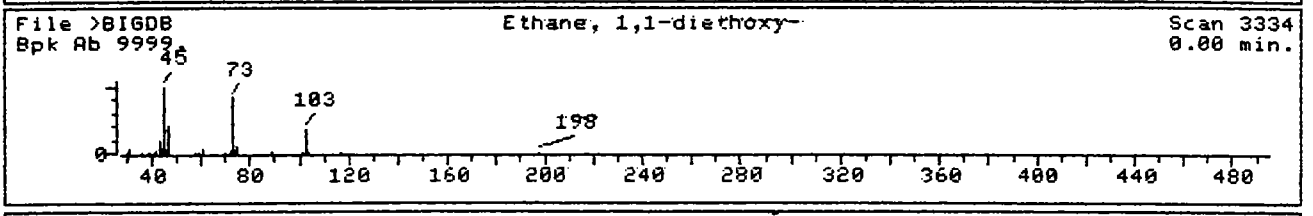
1.	Oxirane, trimethyl-	86	C5H10O
2.	Propane, 2-(ethenyloxy)-	86	C5H10O
3.	Acetic acid ethenyl ester	86	C4H6O2
4.	2-Butanone, 3-methyl-	86	C5H10O
5.	2-Pentanone	86	C5H10O

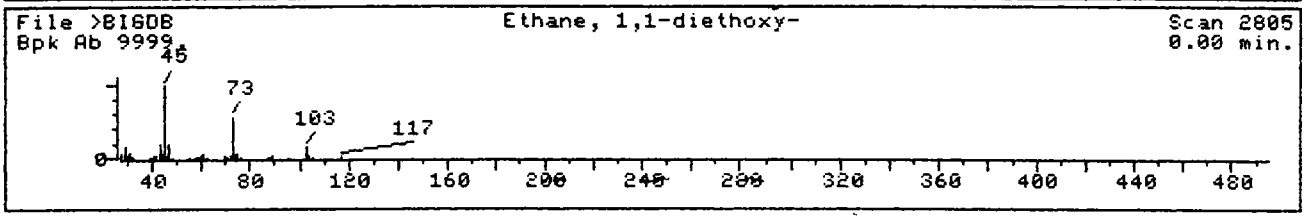
Sample file: >B4109 Spectrum #: 50
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	5076197	6001	"BIGDB	24	70	3	0	100	16	20	12
2.	27*	926658	19022	"BIGDB	21	79	2	0	67	37	10	13
3.	25*	108054	18980	"BIGDB	26	33	1	0	78	48	7	14
4.	25*	563804	19015	"BIGDB	27	54	2	0	100	50	7	14
5.	25*	107879	18973	"BIGDB	20	54	2	0	100	49	7	13









JLC 6/3/94.

UNKNOWN #,3

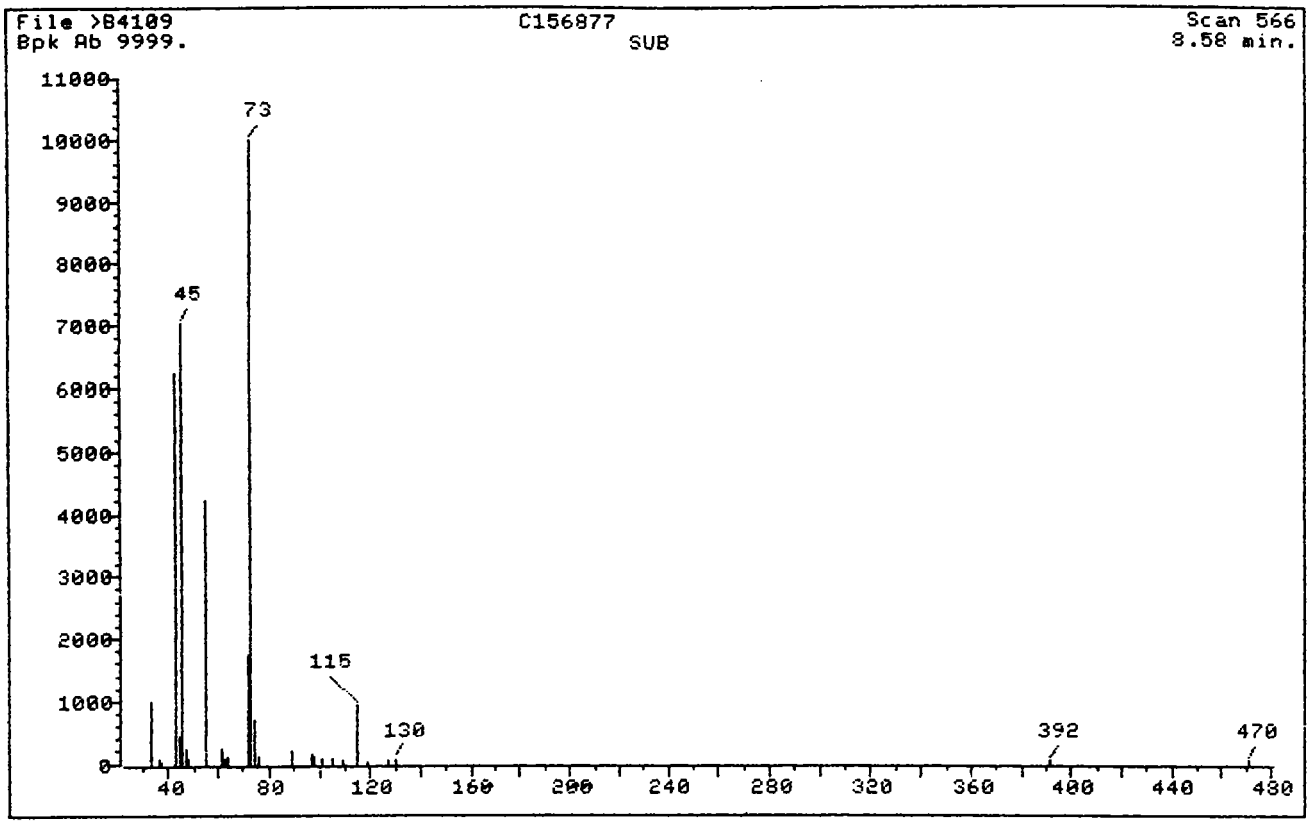
RT = 3.31 AREA = 378500.0 RESPONSE FACTOR IS 54.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

1.	Ethane, 1,1-diethoxy-	118	C6H14O2
2.	Ethane, 1,1-diethoxy-	118	C6H14O2
3.	Ethane, 1,1-diethoxy-	118	C6H14O2
4.	Formamide	45	CH3NO
5.	Propane, 1-methoxy-	74	C4H10O

Sample file: >B4109 Spectrum #: 113
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	105577	2808	"BIGDB	43	40	2	0	68	10	42	14
2.	31	105577	3334	"BIGDB	41	36	2	0	38	35	12	14
3.	30	105577	2805	"BIGDB	38	47	2	0	56	35	12	13
4.	26*	75127	2532	"BIGDB	20	31	1	0	67	45	8	14
5.	26*	557175	2538	"BIGDB	21	33	1	0	85	41	8	14



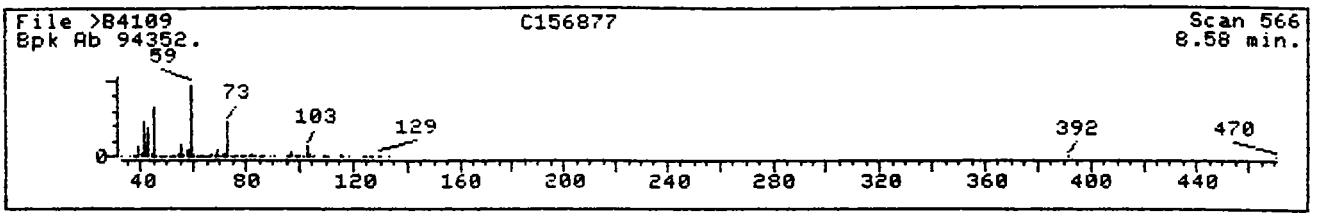
UNKNOWN #,4 See attached. JA 6/3/94.

RT = 8.58 AREA = 697864.0 RESPONSE FACTOR IS 100.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

Sample file: >B4109 Spectrum #: 566

No data base entries were retrieved.

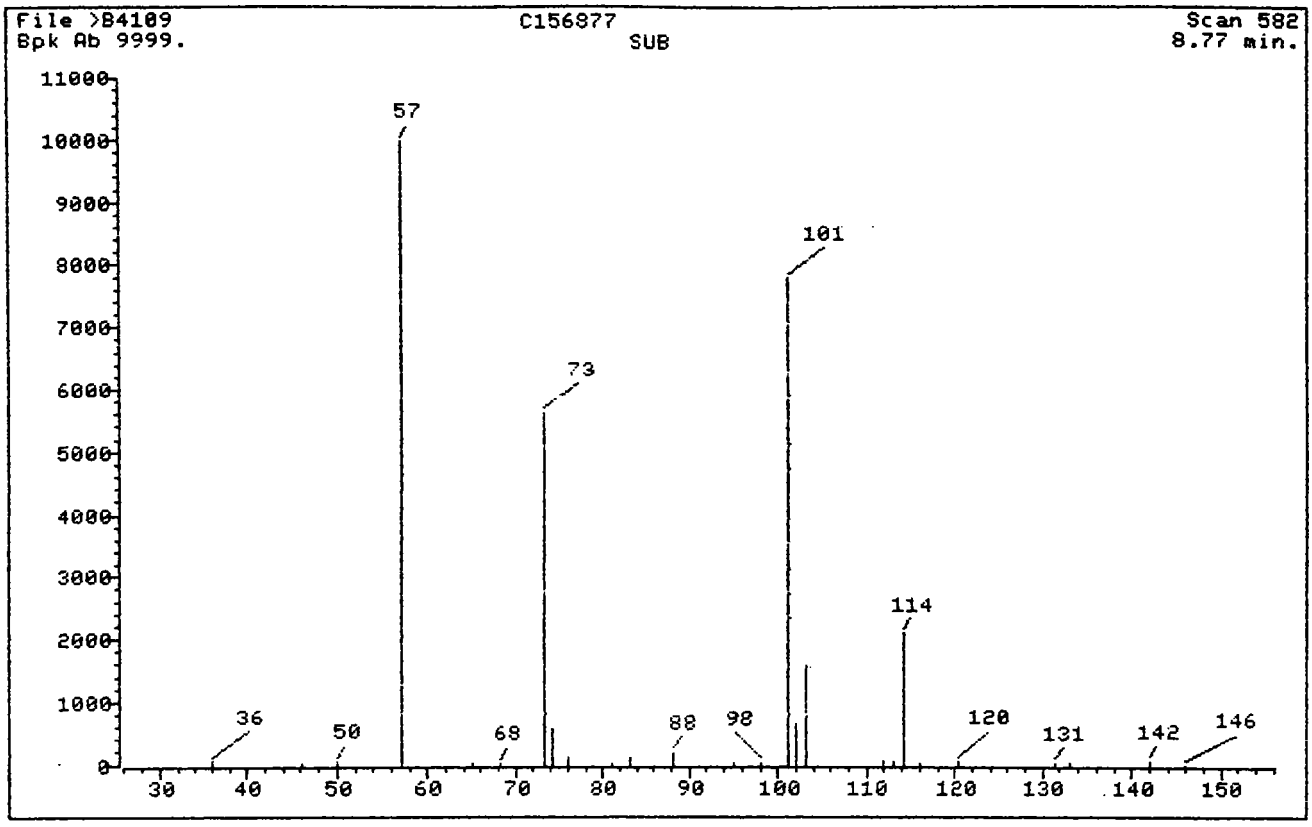


Unknown.

1. 2-Butanol, 2-methyl- 88 C5H12O
2. 3-Hexanol 102 C6H14O
3. 3-Pentanol, 2-methyl- 102 C6H14O
4. 2-Butanol, 2-methyl- 88 C5H12O

Sample file: >B4109 Spectrum #: 566
Search speed: 1 Tilting option: N No. of ion ranges searched: 37

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43	75854	6867	"BIGDB	45	38	0	0	66	33	16	26
2.	38	623370	6879	"BIGDB	46	43	2	0	78	30	14	15
3.	37	565673	6873	"BIGDB	45	52	1	0	86	28	14	14
4.	37	75854	6868	"BIGDB	40	47	1	0	93	30	14	14



See attached. HG 6/3/94.

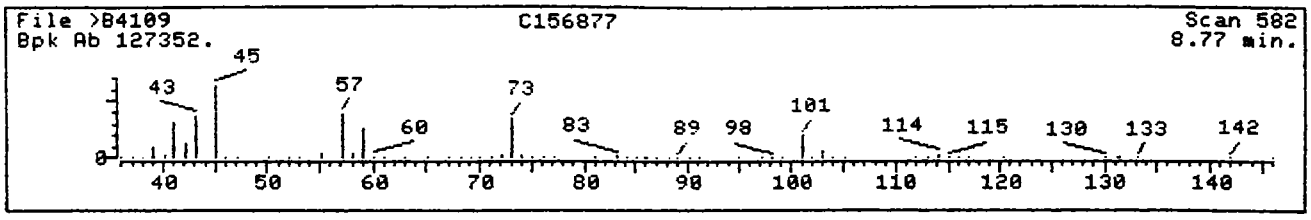
UNKNOWN #,5

RT = 8.77 AREA = 1356078. RESPONSE FACTOR IS 190.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

Sample file: >B4109 Spectrum #: 582

No data base entries were retrieved.

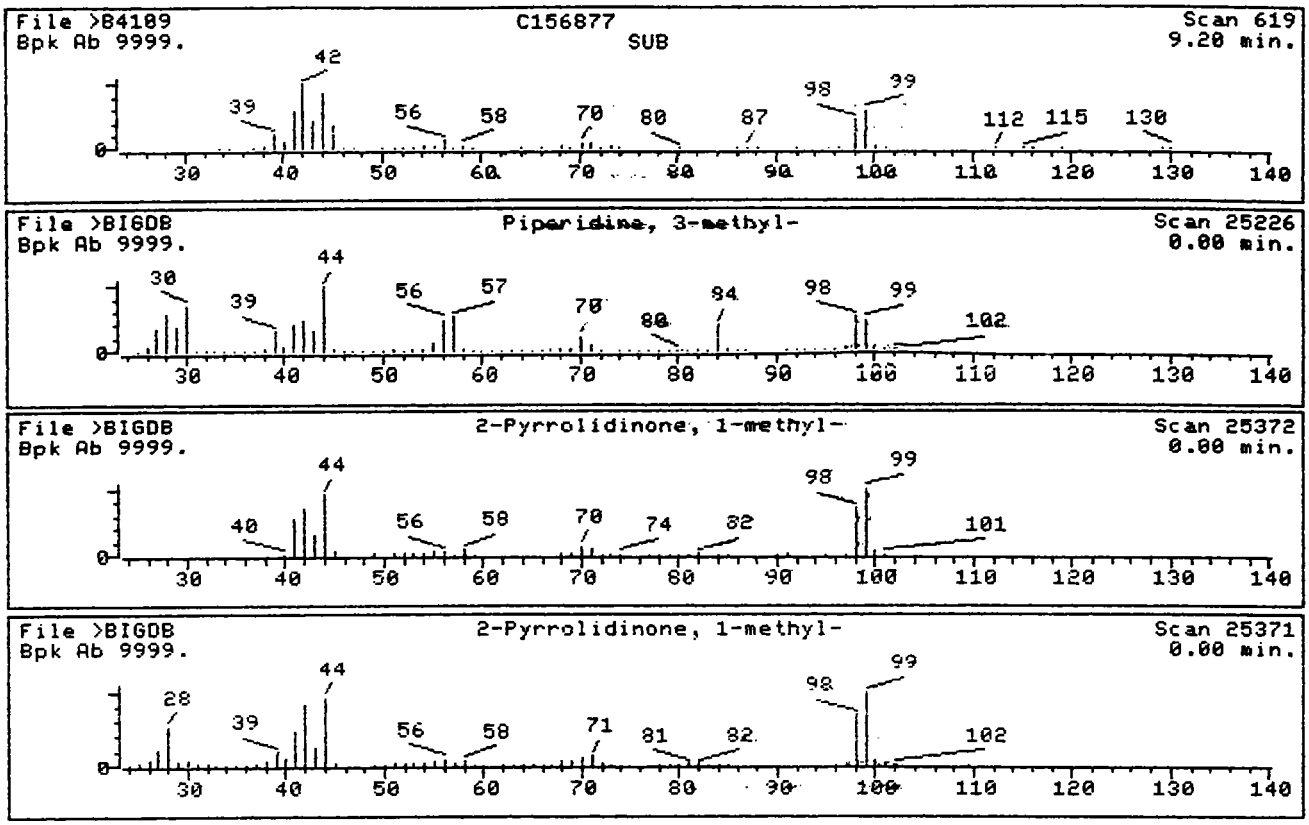


Unknown HO 6/3/94

1. Butane, 2-ethoxy-	102	C6H14O
2. Butane, 2-ethoxy-	102	C6H14O
3. Butane, 2-ethoxy-	102	C6H14O
4. 2-Butanol	74	C4H10O
5. Pentane, 2-butoxy-	144	C9H20O
6. Formic acid, 1-methylpropyl ester	102	C5H10O2

Sample file: >B4109 Spectrum #: 582
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	39*	2679870	2719	"BIGDB	29	62	1	0	100	27	14	16
2.	37*	2679870	2721	"BIGDB	35	50	3	0	100	30	14	14
3.	37*	2679870	2720	"BIGDB	29	51	2	0	100	27	14	14
4.	25*	78922	2578	"BIGDB	23	60	2	0	100	45	8	13
5.	24	62238022	26789	"BIGDB	38	49	2	0	94	43	8	12
6.	24*	589402	2707	"BIGDB	23	72	3	0	100	41	8	12



Ha 6/3/94.

UNKNOWN #,6

RT = 9.20 AREA = 1056850. RESPONSE FACTOR IS 150.00

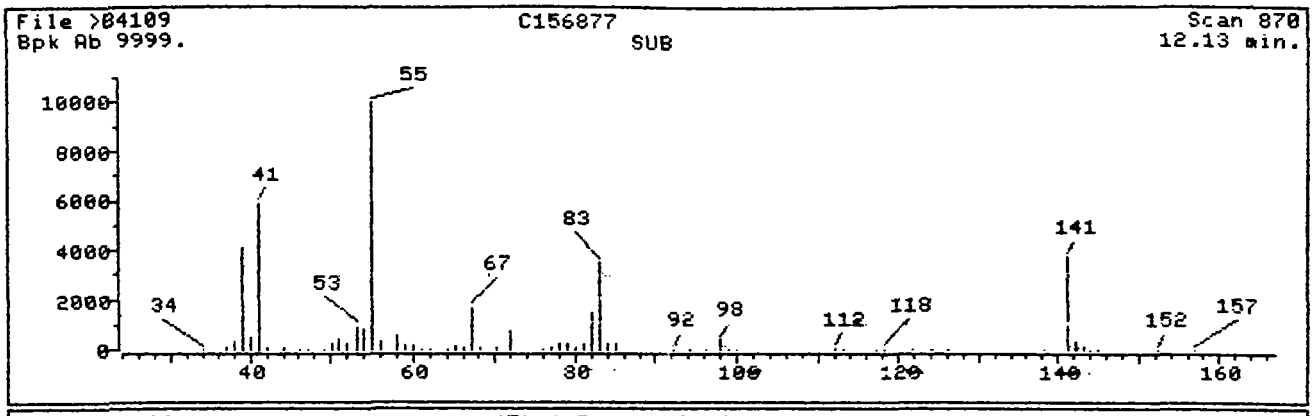
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

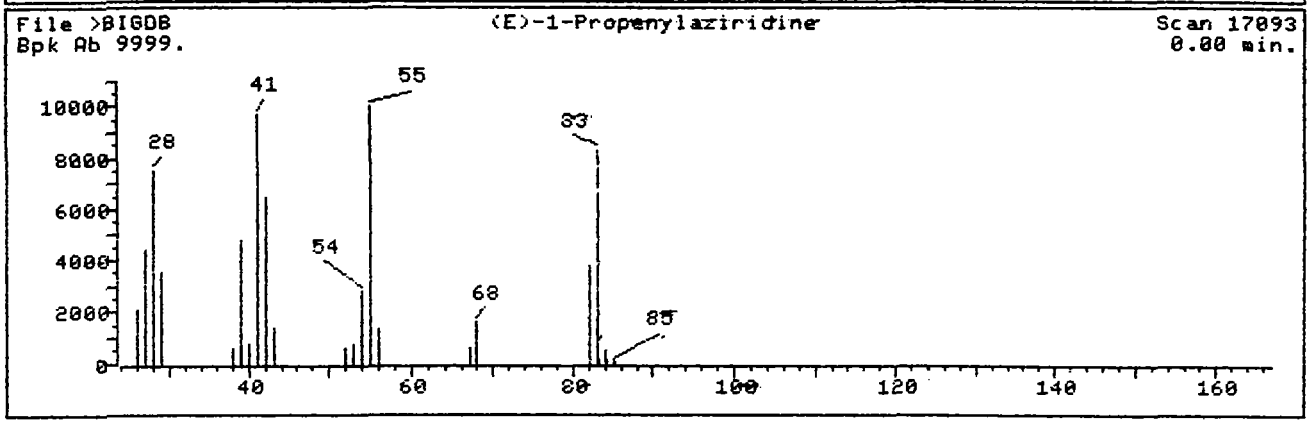
1.	Piperidine, 3-methyl-	99 C6H13N
2.	2-Pyrrolidinone, 1-methyl-	99 C5H9NO
3.	2-Pyrrolidinone, 1-methyl-	99 C5H9NO
4.	1-METHYL-4-HYDROXY-V-TRIAZOLE	99 C3H5N3O
5.	2-AMINO-4-METHYLOXAZOLE	98 C4H6N2O

Sample file: >B4109 Spectrum #: 619

Search speed: 1 Tilting option: N No. of ion ranges searched: 37

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	626562	25226	"BIGDB	37	78	3	0	86	27	14	13
2.	27*	872504	25372	"BIGDB	40	60	2	0	57	41	8	15
3.	26*	872504	25371	"BIGDB	40	65	2	0	57	41	8	14
4.	20*	15966775	25383	"BIGDB	25	45	2	0	100	53	5	14
5.	20*	35629700	24863	"BIGDB	31	55	1	0	70	51	5	17





LIO 6/3/94.

UNKNOWN #,7

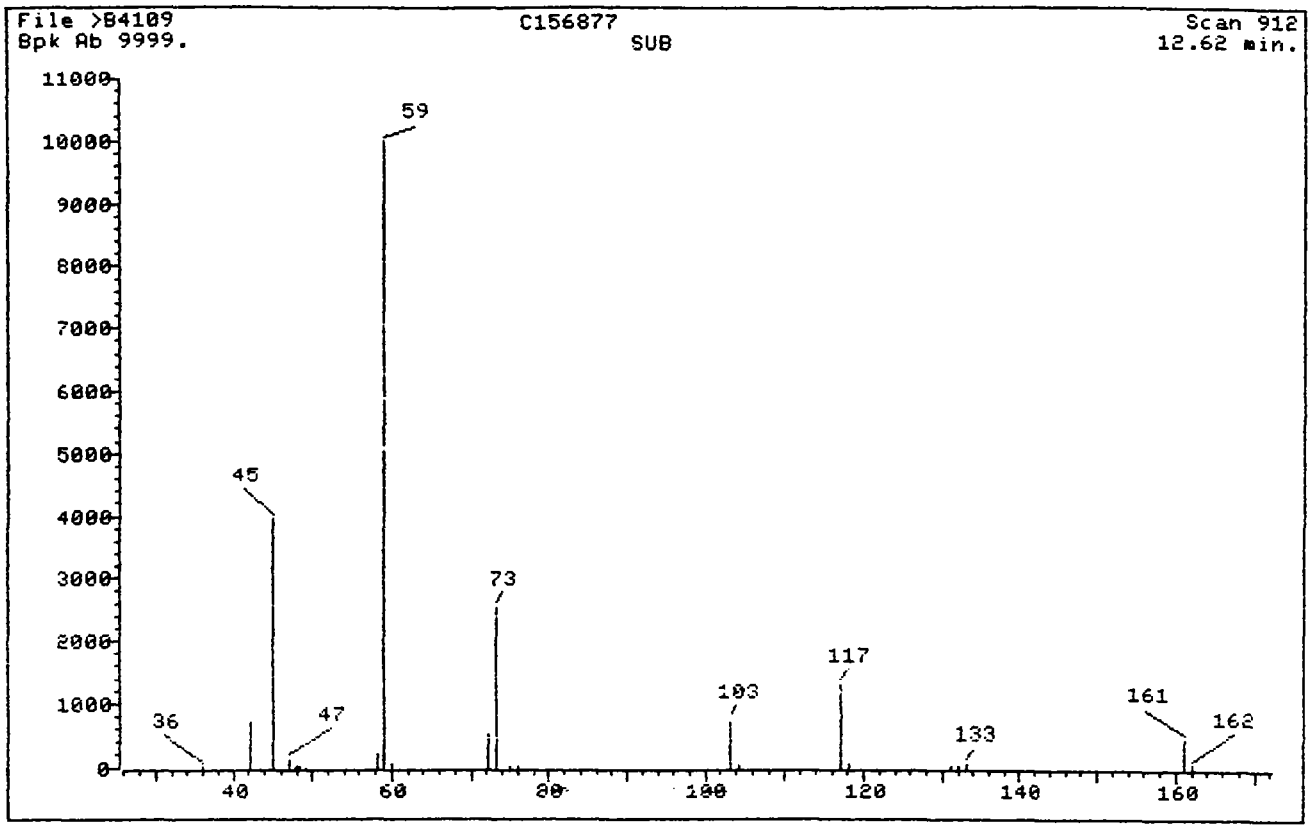
RT = 12.13 AREA = 1914446. RESPONSE FACTOR IS 110.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

1. (E)-1-Propenylaziridine 83 C5H9N

Sample file: >B4109 Spectrum #: 870
Search speed: 1 Tilting option: N No. of ion ranges searched: 38

	Prob.	CAS #	CON #	ROOT	K	DK	#FL6	TILT	%	CON	C_I	R_IV
1.	20*	80839914	17093	"BIGDB	22	70	2	0	39	54	5	13



Secondarched HC 6/3/94

UNKNOWN #,8

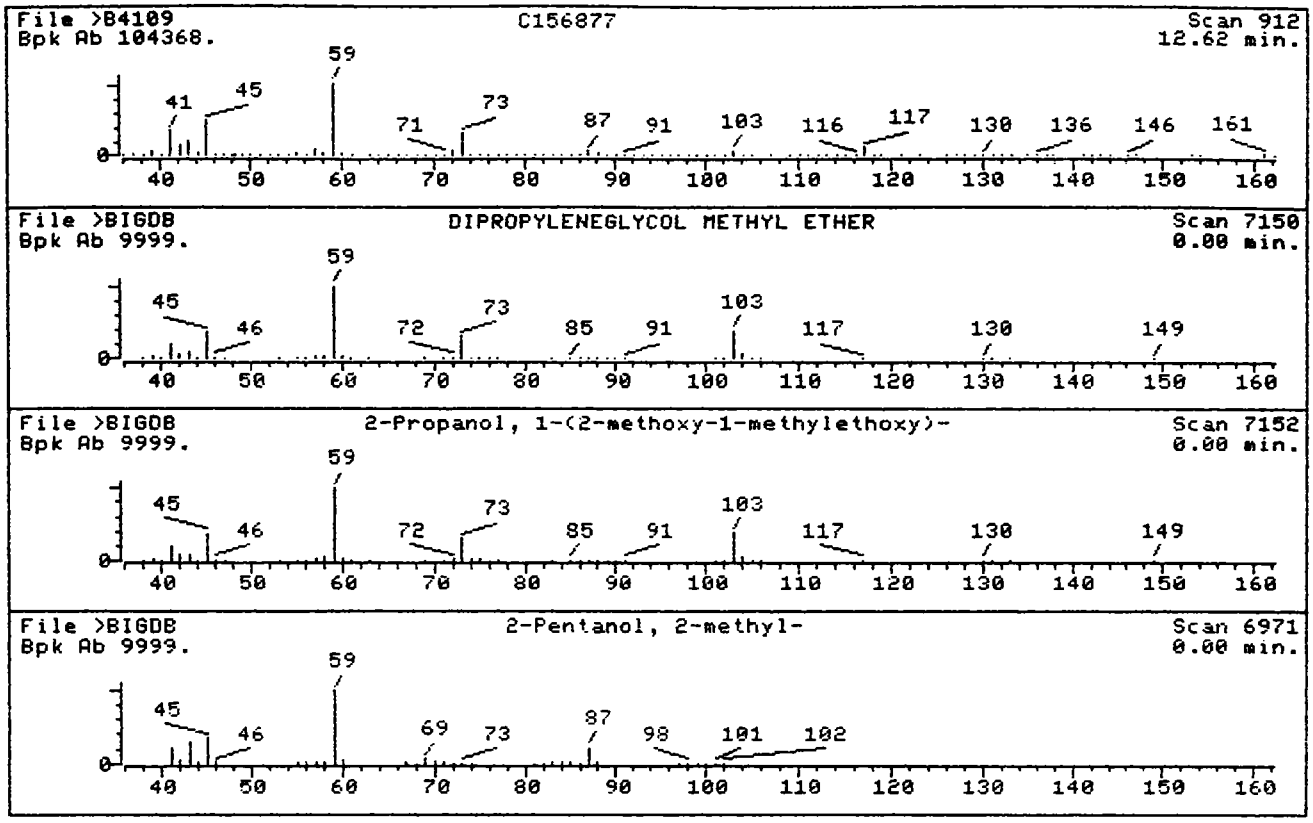
RT = 12.62 AREA = 809387.0 RESPONSE FACTOR IS 49.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

Sample file: >B4109 Spectrum #: 912

No data base entries were retrieved.

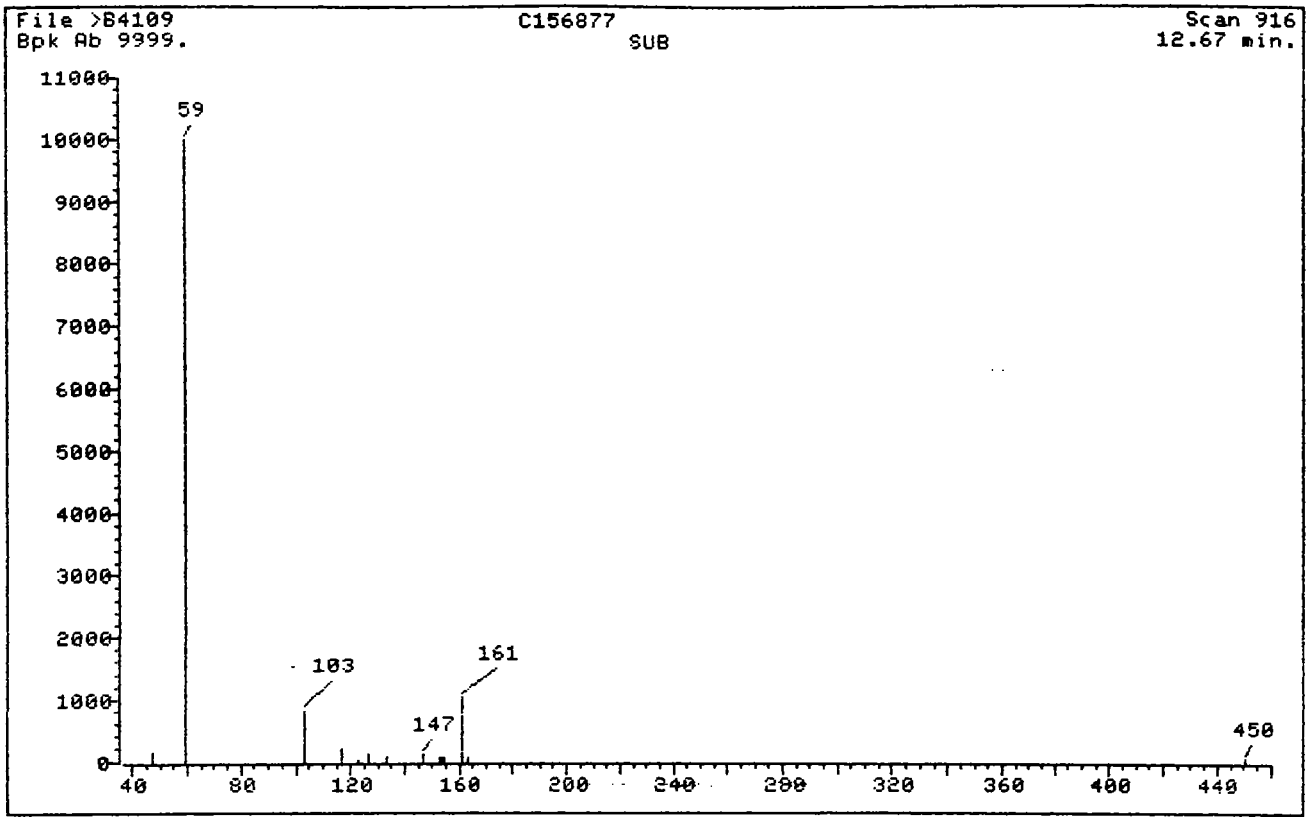
Unknown HC 6/2/94.



1. DIPROPYLENEGLYCOL METHYL ETHER	148	C7H16O3
2. 2-Propanol, 1-(2-methoxy-1-methylethoxy)-	148	C7H16O3
3. 2-Pentanol, 2-methyl-	102	C6H14O
4. BIS(1-METHYL-2-HYDROXYETHYL)ETHER	134	C6H14O3
5. 3-Hexanol	102	C6H14O
6. 2-Propanol, 1,1'-oxybis-	134	C6H14O3

Sample file: >B4109 Spectrum #: 912
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	12002254	7150	"BIGDB	50	43	2	0	100	15	30	15
2.	60	20324327	7152	"BIGDB	50	43	2	0	100	15	30	15
3.	36	590363	6971	"BIGDB	38	46	2	0	100	26	14	13
4.	35	0	7112	"BIGDB	35	49	2	0	100	28	14	12
5.	32*	623370	6882	"BIGDB	32	59	2	0	76	35	12	15
6.	31	110985	7122	"BIGDB	41	22	1	0	100	32	12	14



See attached. KB 6/3/94.

UNKNOWN #,9

RT = 12.67 AREA = 118717. RESPONSE FACTOR IS 67.00

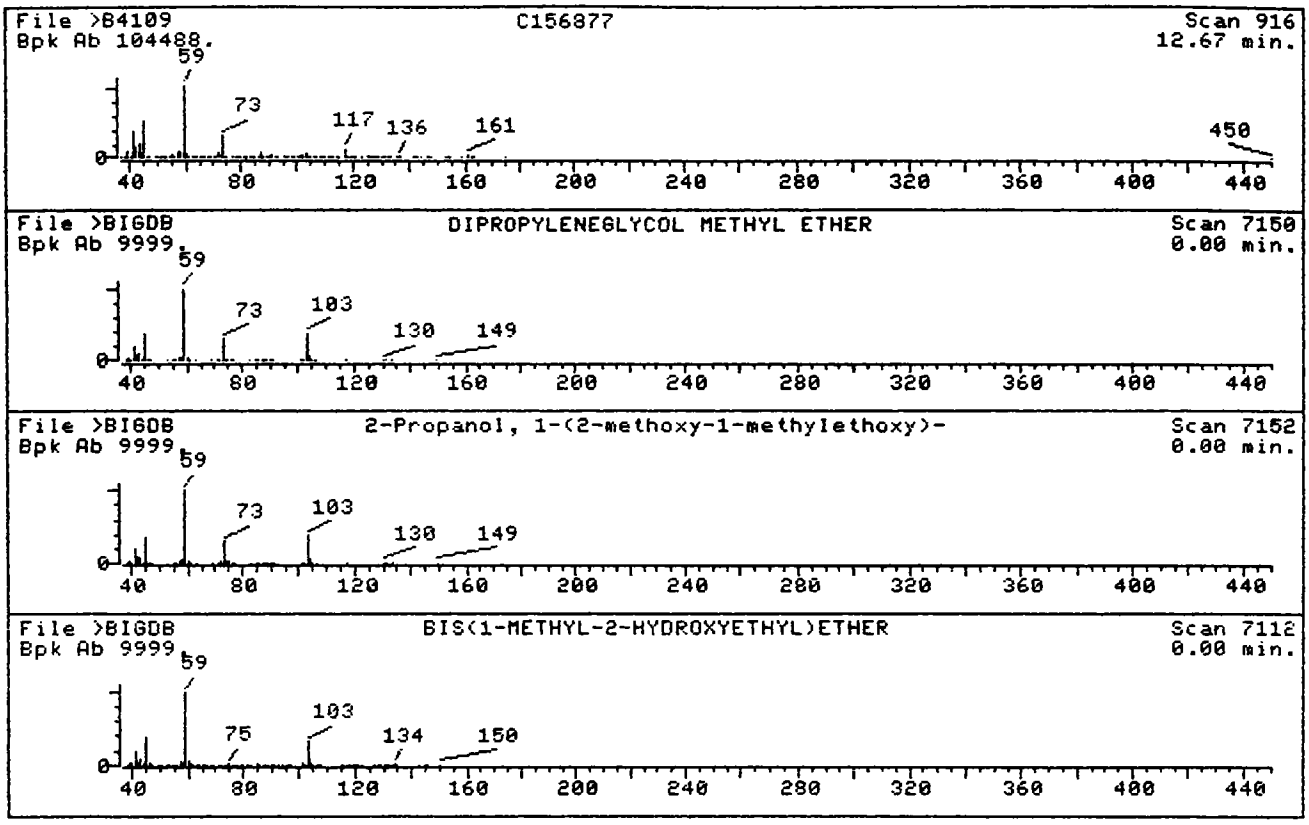
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

Sample file: >B4109 Spectrum #: 916

No data base entries were retrieved.

Unknown HR 6/3/94

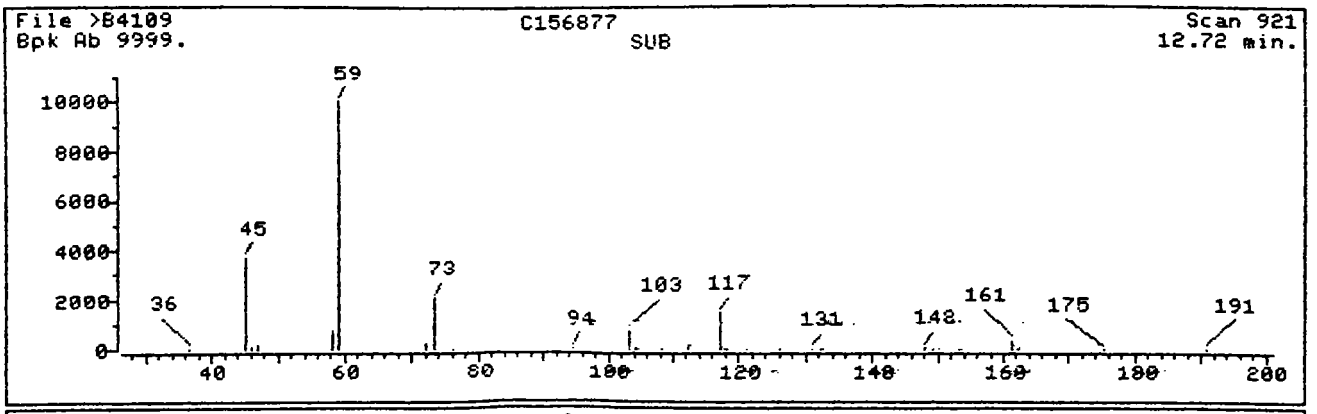
NEWR :

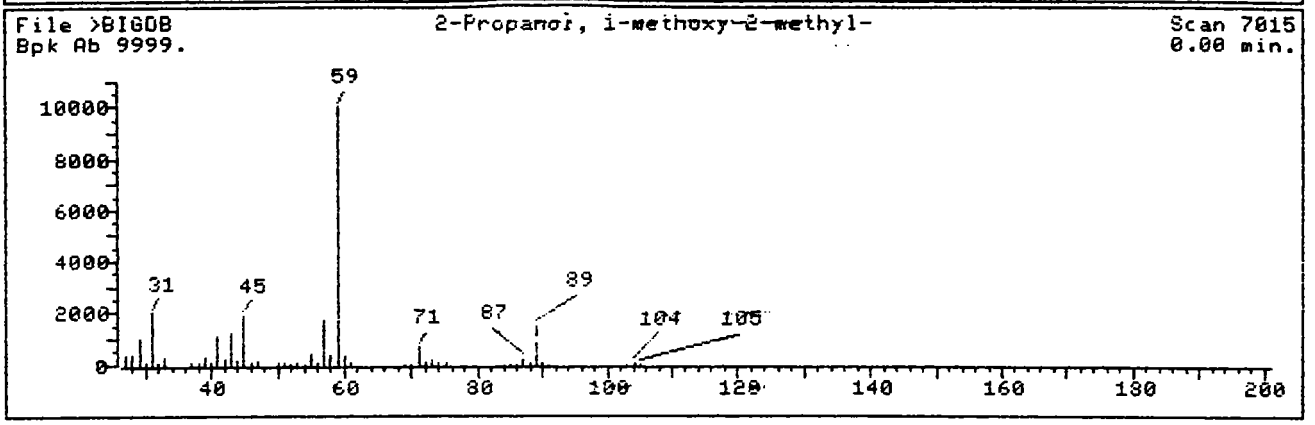


1. DIPROPYLENEGLYCOL METHYL ETHER 148 C7H16O3
2. 2-Propanol, 1-(2-methoxy-1-methylethoxy)- 148 C7H16O3
3. BIS(1-METHYL-2-HYDROXYETHYL)ETHER 134 C6H14O3
4. 3-Hexanol 102 C6H14O
5. 2-Propanol, 1-[2-(2-methoxy-1-methylethoxy)-1-methyl ethoxy]- 206 C10H22O4
6. 2-Propanol, 1,1'-oxybis- 134 C6H14O3

Sample file: >B4109 Spectrum #: 916
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52	12002254	7150	"BIGDB	50	43	2	0	100	16	20	15
2.	52	20324327	7152	"BIGDB	50	43	2	0	100	16	20	15
3.	35	0	7112	"BIGDB	35	49	2	0	100	29	14	12
4.	35*	623370	6882	"BIGDB	37	54	2	0	76	33	12	18
5.	30	20324338	7357	"BIGDB	63	47	1	0	50	49	10	21
6.	30	110985	7122	"BIGDB	36	27	1	0	100	32	12	13





MK 6/3/94.

UNKNOWN #,10

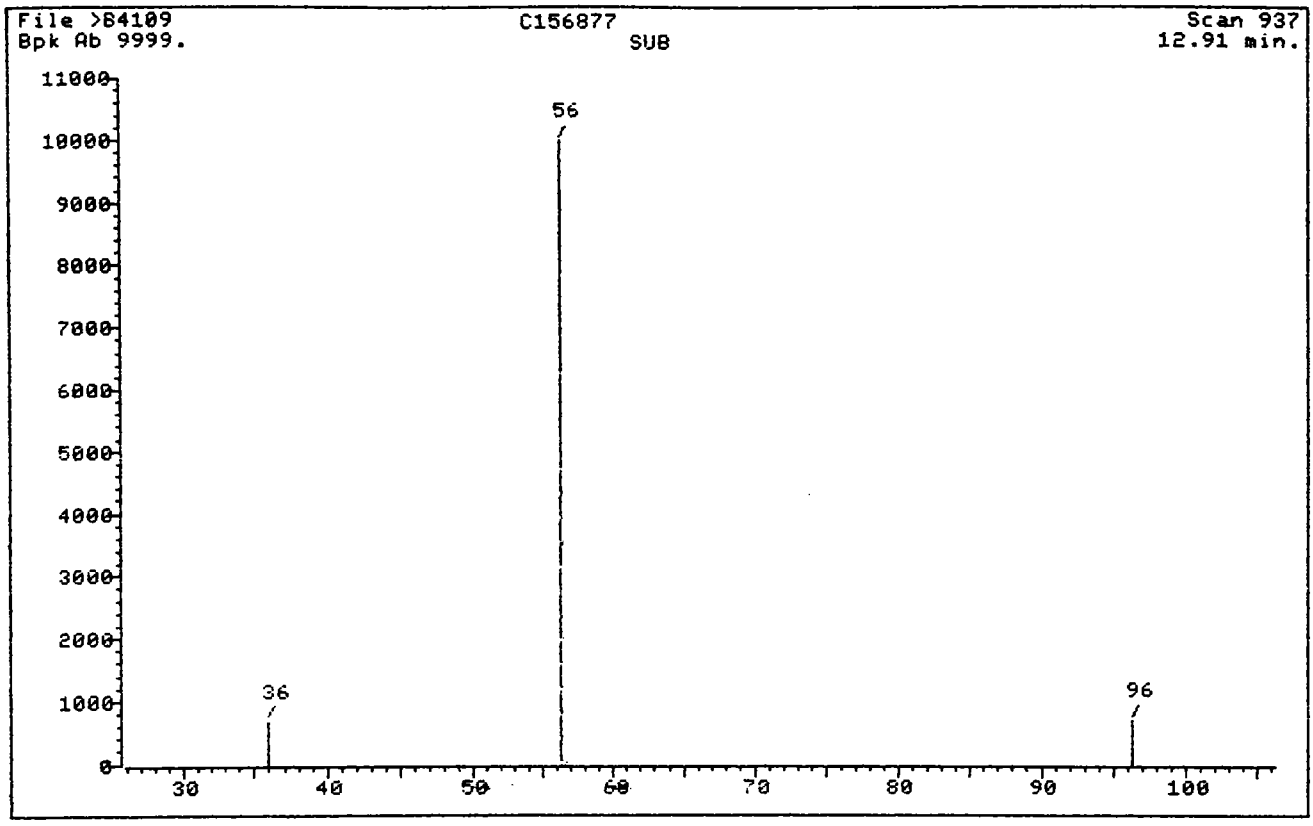
RT = 12.72 AREA = 485166.0 RESPONSE FACTOR IS 28.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

1. 2-Propanol, 1-methoxy-2-methyl- 104 C5H12O2

Sample file: >B4109 Spectrum #: 921
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	3587642	7015	"BIGDB	23	68	3	0	100	36	10	12



UNKNOWN. #,11

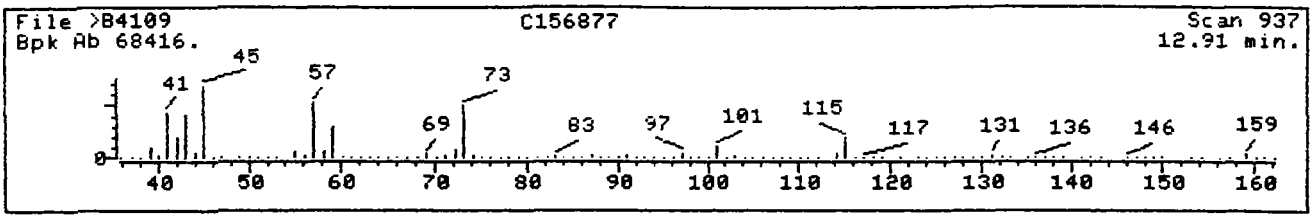
RT = 12.91 AREA = 306672.0 RESPONSE FACTOR IS 18.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

Sample file: >B4109 Spectrum #: 937

No data base entries were retrieved.

FMGR : NEW

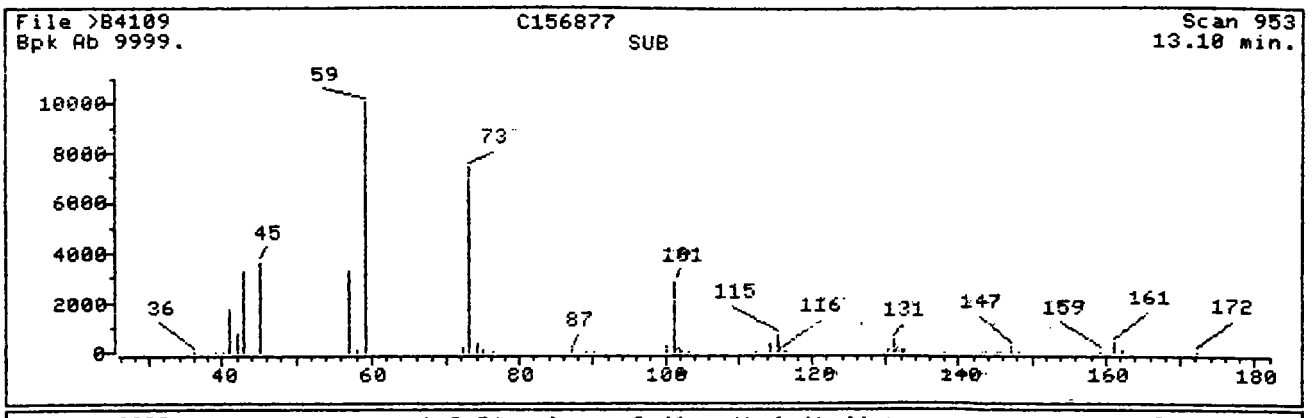


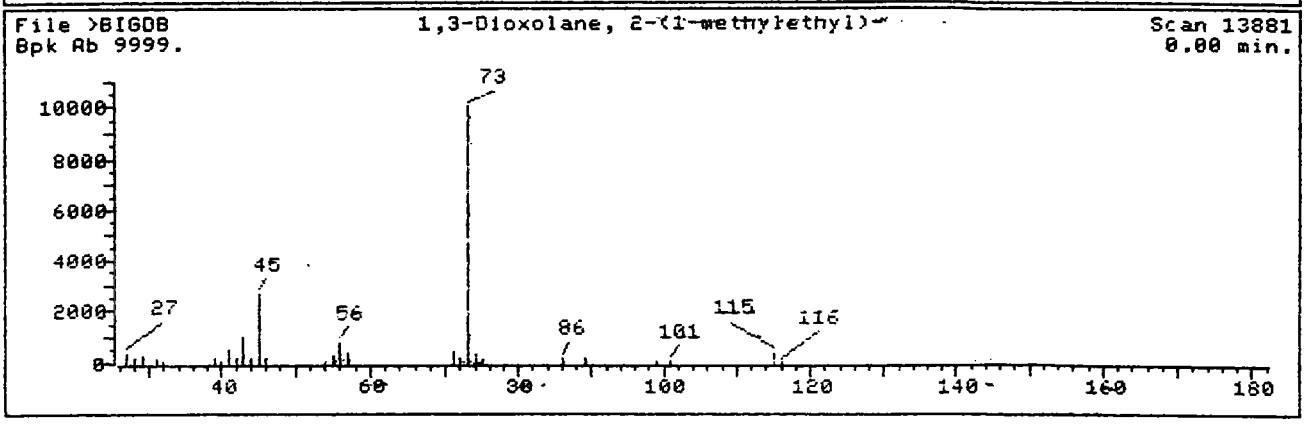
unknown #a 6/3/94

1. Butane, 2-ethoxy-	102	C6H14O
2. Butane, 2-ethoxy-	102	C6H14O
3. Acetic acid, 1,1-dimethylethyl ester	116	C6H12O2
4. SILANE, TRIMETHYLPROPYL-	116	C6H16Si
5. Silane, butyltrimethyl-	130	C7H18Si
6. 2-Propanol, 1-(1-methylpropoxy)-	132	C7H16O2

Sample file: >B4109 Spectrum #: 937
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	28*	2679870	2720	"BIGDB	29	51	1	0	100	43	8	16
2.	25*	2679870	2721	"BIGDB	34	51	2	0	100	46	7	17
3.	15	540885	26733	"BIGDB	37	49	2	0	141	60	3	12
4.	15*	0	7059	"BIGDB	33	54	2	0	74	57	3	16
5.	15*	1000493	7182	"BIGDB	21	58	2	0	74	57	3	13
6.	15*	53907952	7144	"BIGDB	31	83	2	0	51	57	3	14





ao 6/3/94.

UNKNOWN #,12

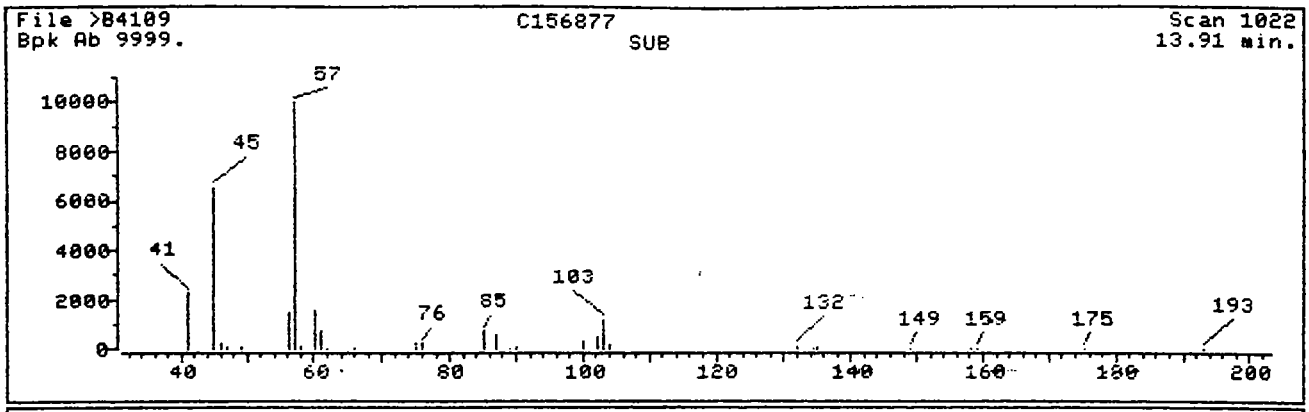
RT = 13.10 AREA = 428975.0 RESPONSE FACTOR IS 26.00

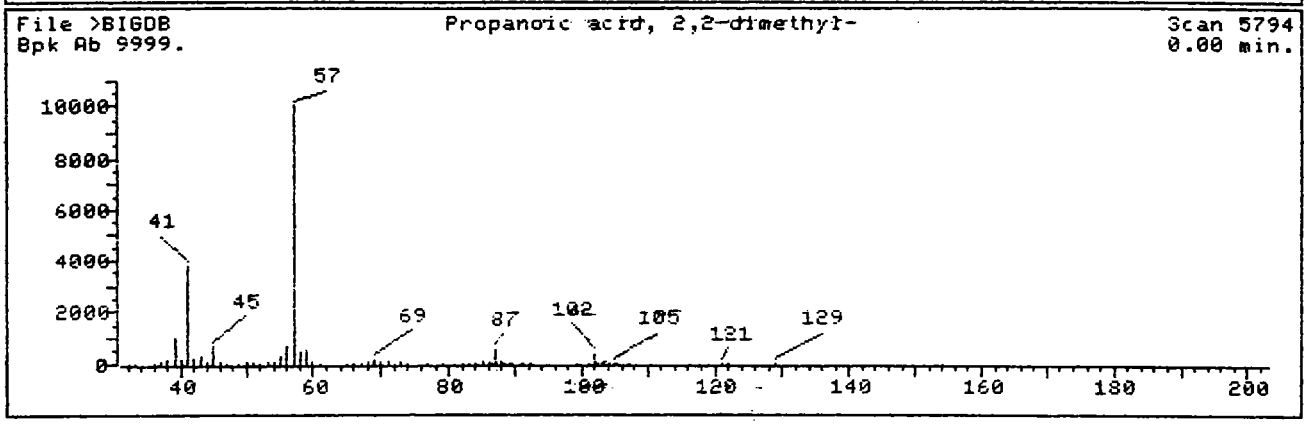
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

1. 1,3-Dioxolane, 2-(1-methylethyl)- 116 C6H12O2

Sample file: >B4109 Spectrum #: 953
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	822833	13881	"BIGDB	25	52	2	0	74	53	5	14





UNKNOWN #,13

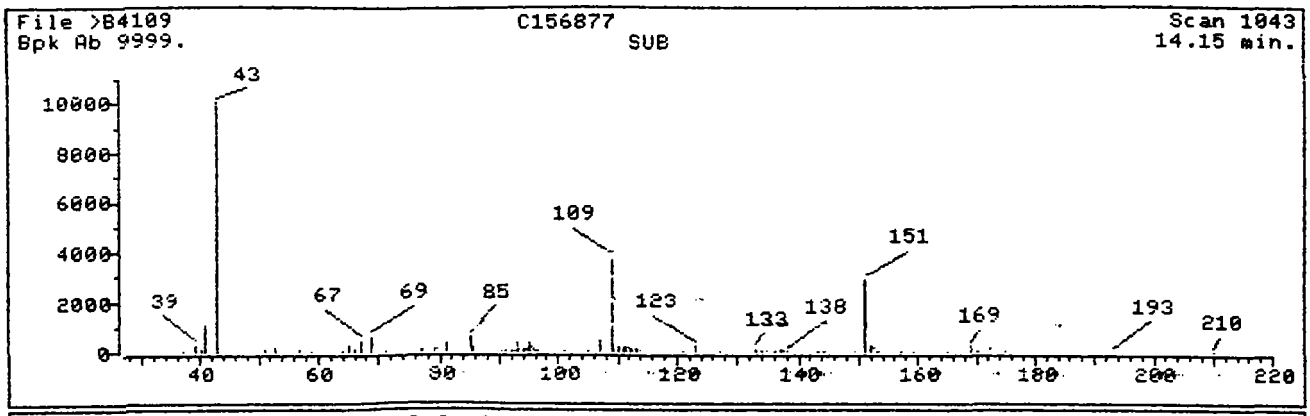
RT = 13.91 AREA = 365868.0 RESPONSE FACTOR IS 20.00

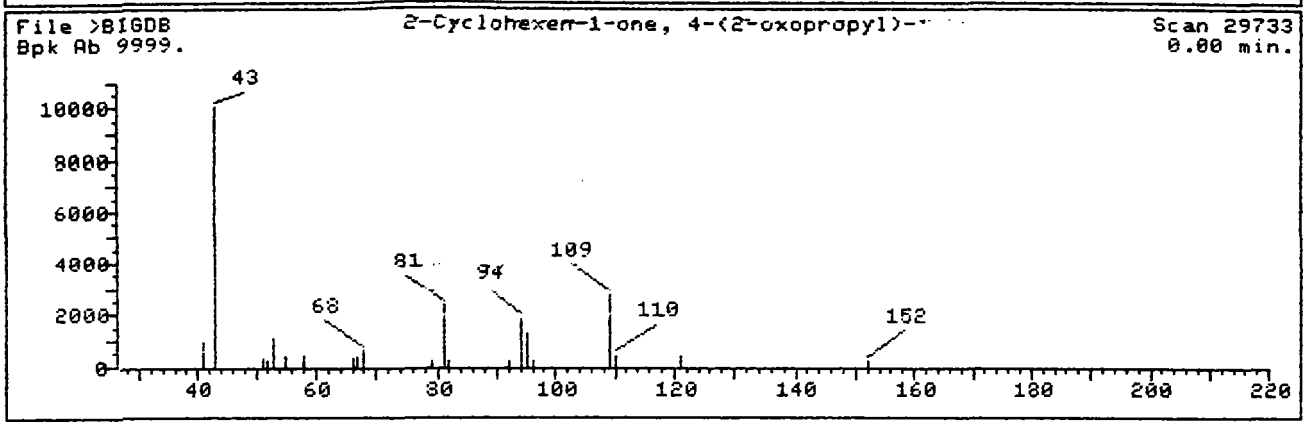
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

1. Propanoic acid, 2,2-dimethyl- 102 C5H10O2

Sample file: >B4109 Spectrum #: 1022
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	24*	75989	5794	"BIGDB	22	51	3	0	100	42	8	12





UNKNOWN #,14 LO 6/3/94.

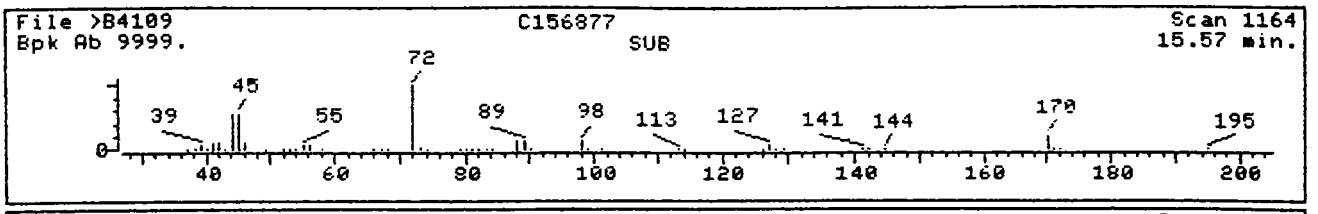
RT = 14.15 AREA = 575864.0 RESPONSE FACTOR IS 31.00

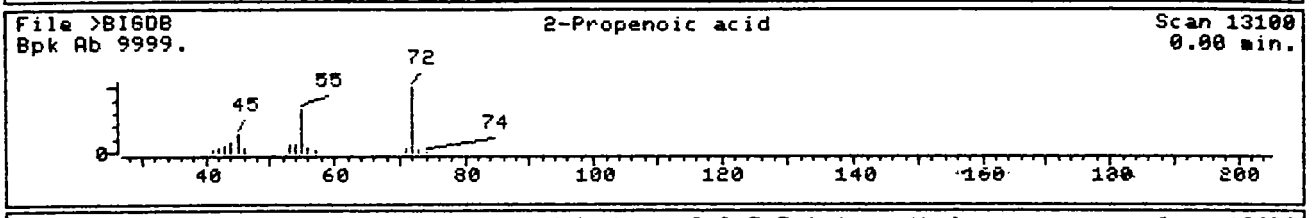
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

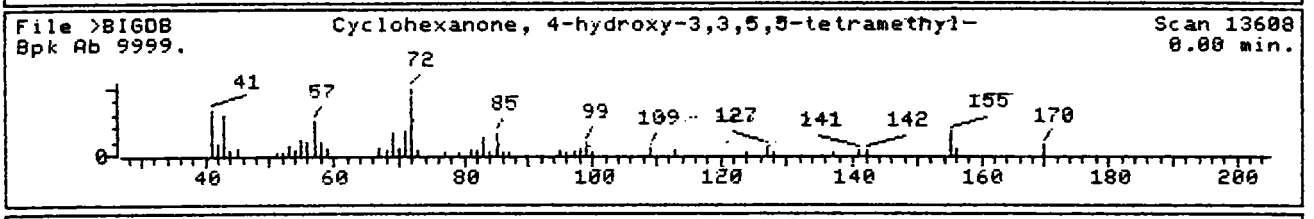
1. 2-Cyclohexen-1-one, 4-(2-oxopropyl)- 152 C9H12O2

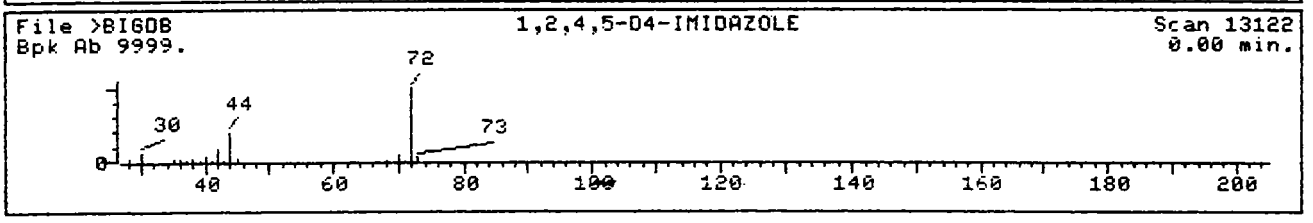
Sample file: >B4109 Spectrum #: 1043
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	35*	56051946	29733	"BIGDB	23	66	3	0	100	28	14	12









HQ 6/3/94

UNKNOWN #,15

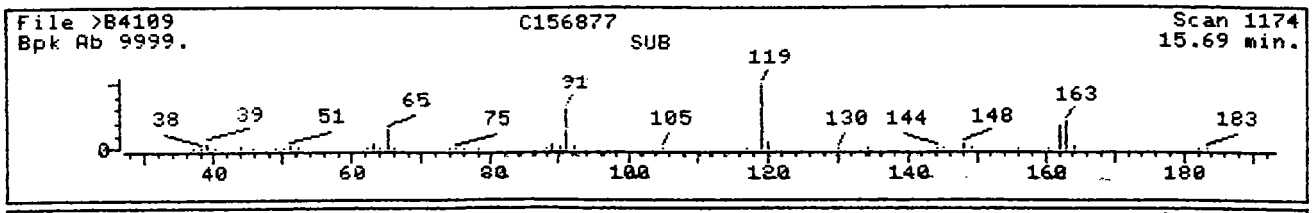
RT = 15.57 AREA = 644145. RESPONSE FACTOR IS 88.00

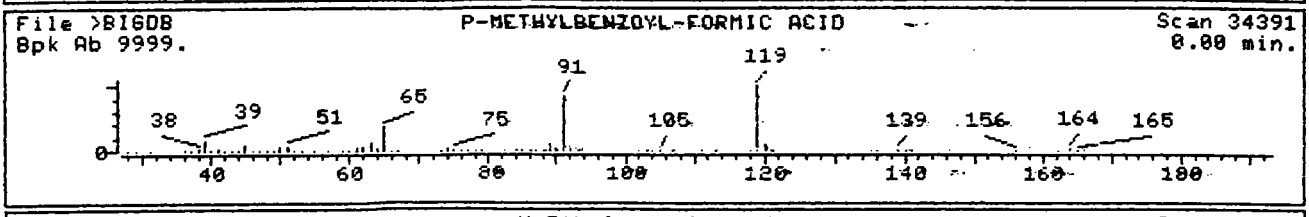
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

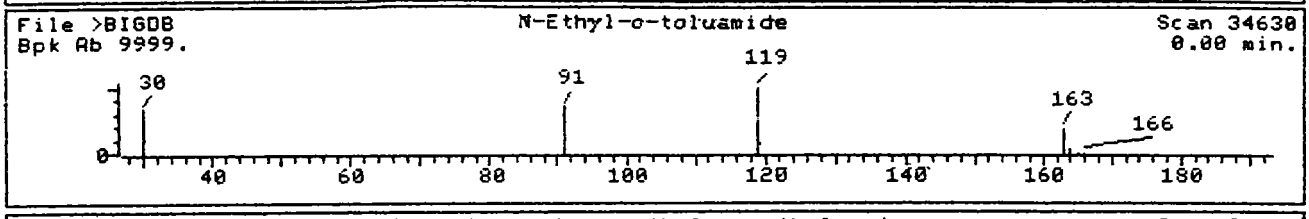
1. 2-Propenoic acid 72 C3H4O2
2. Cyclohexanone, 4-hydroxy-3,3,5,5-tetramethyl- 170 C10H18O2
3. 1,2,4,5-D4-IMIDAZOLE 0

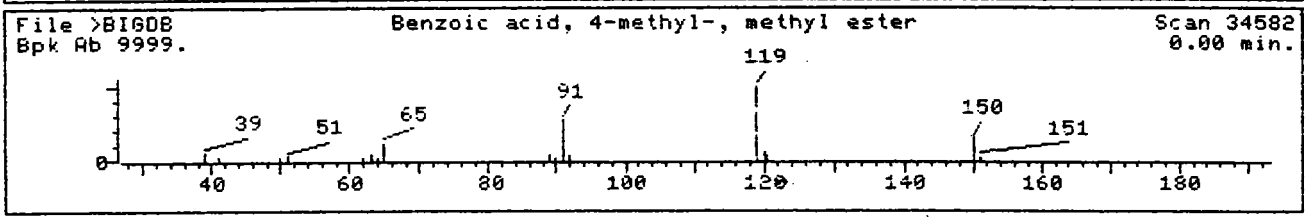
Sample file: >B4109 Spectrum #: 1164
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	79107	13100	"BIGDB	26	62	3	0	100	47	7	13
2.	25*	17429060	13608	"BIGDB	25	89	3	0	100	49	7	13
3.	20*	6923019	13122	"BIGDB	21	49	2	0	80	54	5	13









UNKNOWN #,16 KA 6/3/94.

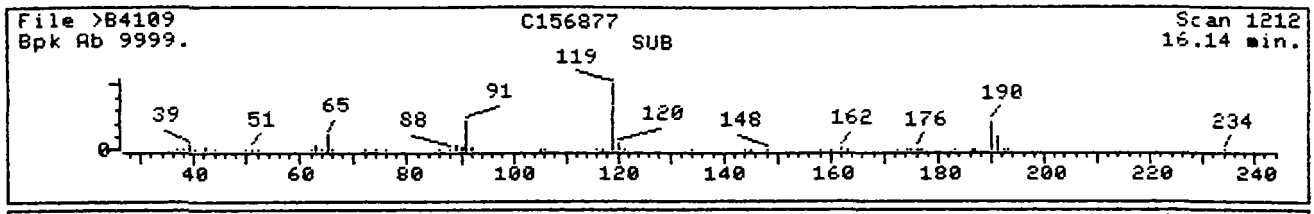
RT = 15.69 AREA = 349954.0 RESPONSE FACTOR IS 19.00

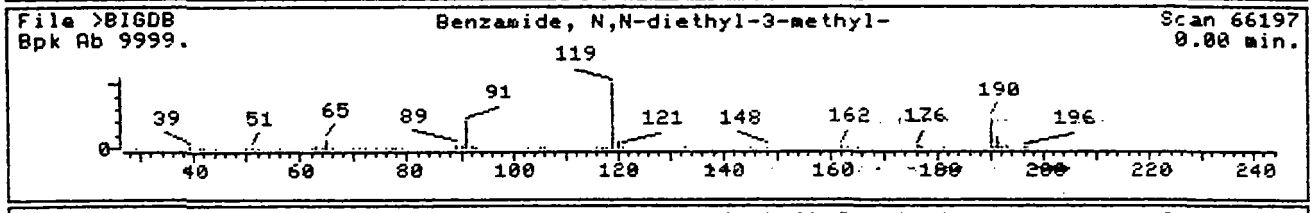
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

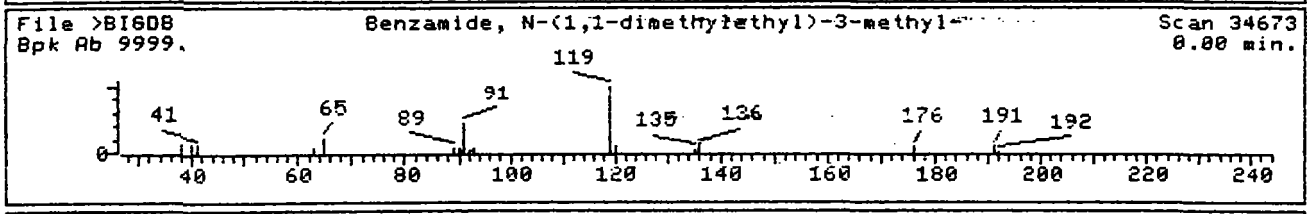
1.	P-METHYLBENZOYL-FORMIC ACID	164 C9H8O3
2.	N-Ethyl-o-toluamide	163 C10H13NO
3.	Benzoic acid, 4-methyl-, methyl ester	150 C9H10O2
4.	Benzene, isocyanato-	119 C7H5NO
5.	Benzonitrile, 4-hydroxy-	119 C7H5NO

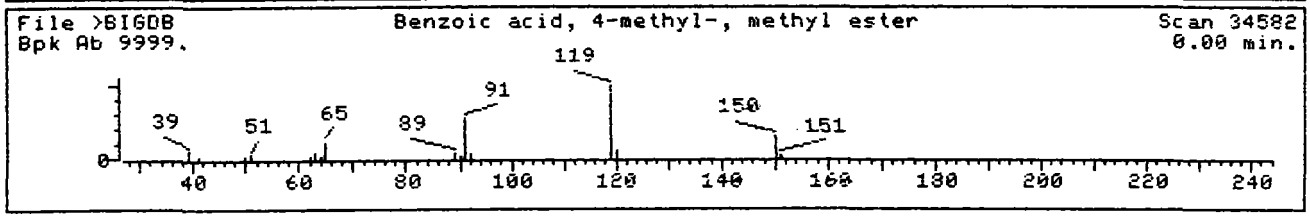
Sample file: >B4109 Spectrum #: 1174
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	56*	0	34391	"BIGDB	59	36	2	0	71	33	22	41
2.	33*	57056812	34630	"BIGDB	30	14	1	0	83	35	12	16
3.	30	99752	34582	"BIGDB	56	31	3	0	100	36	10	16
4.	25*	103719	34411	"BIGDB	40	43	2	0	100	48	7	19
5.	25*	767000	34425	"BIGDB	36	39	2	0	71	48	7	18









HC 6/3/94

UNKNOWN #,17

RT = 16.14 AREA = 1384961. RESPONSE FACTOR IS 74.00

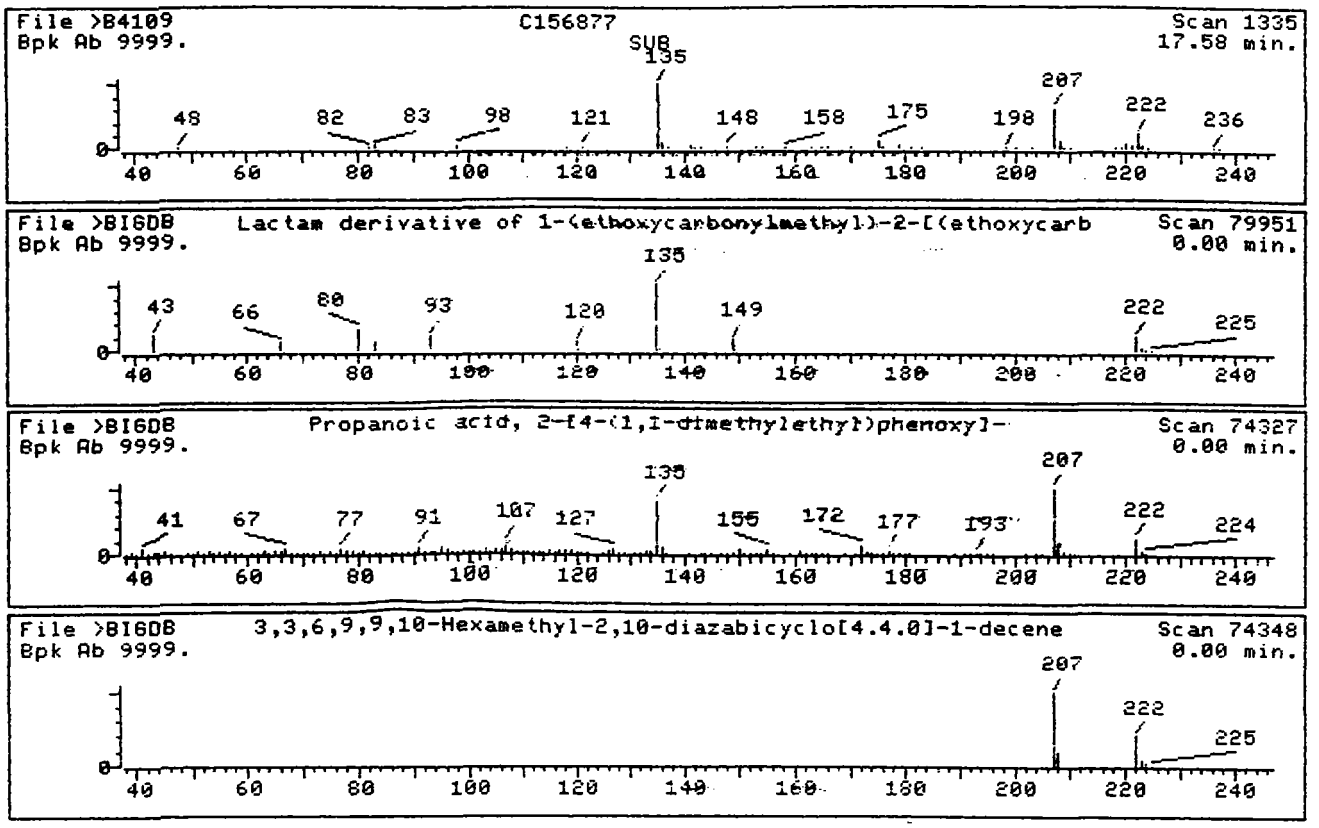
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

1.	Benzamide, N,N-diethyl-3-methyl-	191	C12H17NO
2.	Benzamide, N-(1,1-dimethylethyl)-3-methyl-	191	C12H17NO
3.	Benzoic acid, 4-methyl-, methyl ester	150	C9H10O2
4.	Vinyl p-toluate	162	C10H10O2
5.	Benzoyl chloride, 2-methyl-	154	C8H7ClO

Sample file: >B4109 Spectrum #: 1212

Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	134623	66197	"BIGDB	82	22	1	0	78	5	66	78
2.	36*	42498339	34673	"BIGDB	28	77	3	0	100	28	14	13
3.	28	99752	34582	"BIGDB	51	36	3	0	81	36	10	14
4.	28*	0	34390	"BIGDB	25	25	2	0	100	40	10	14
5.	27	933880	34592	"BIGDB	46	47	2	0	66	36	10	13



pkg 6/3/94.

UNKNOWN #,18

RT = 17.58 AREA = 379544.0 RESPONSE FACTOR IS 22.00

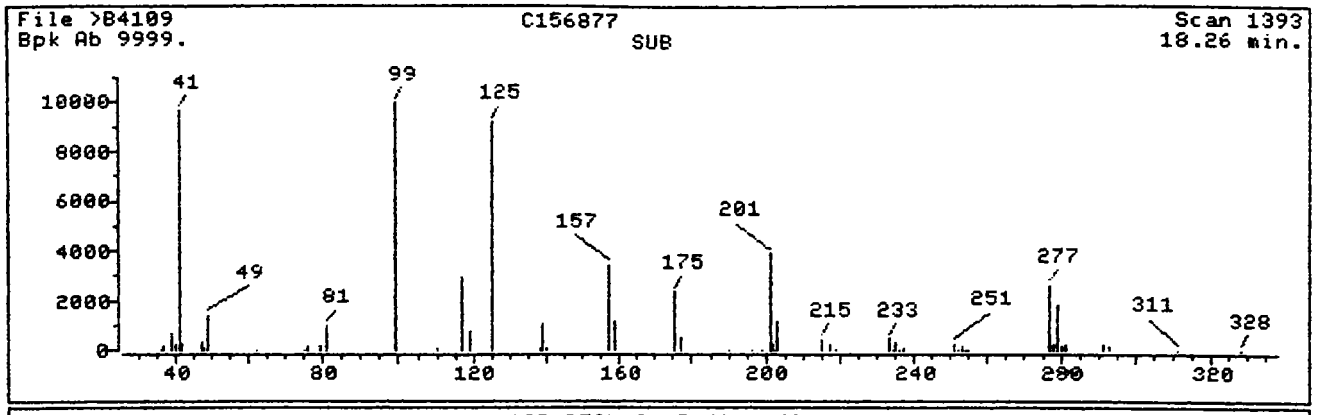
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

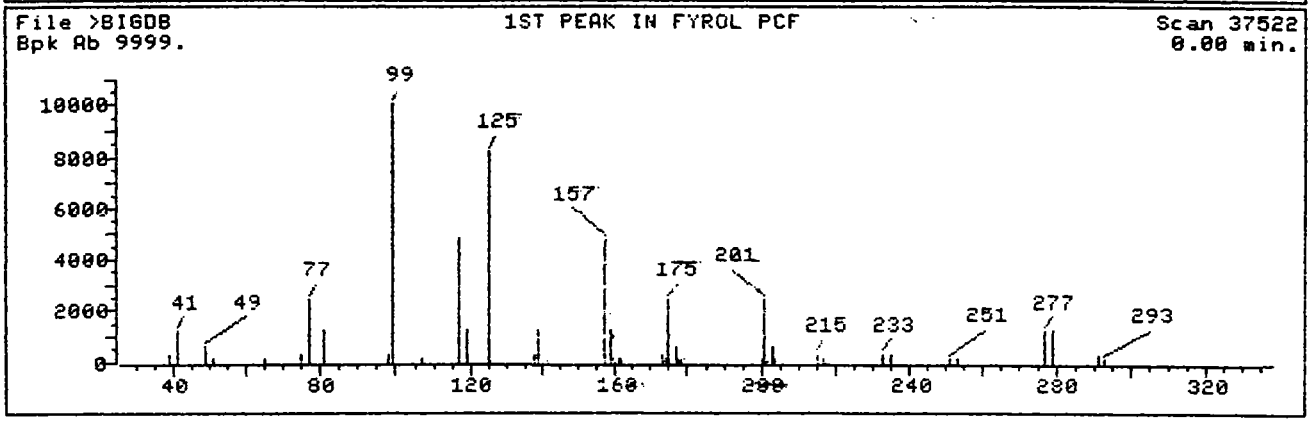
1.	Lactam derivative of 1-(ethoxycarbonylmethyl)-2-[(et hoxycarbonyl)methyl]aminomethylpyrrole	222	C11H14N2O3
2.	Propanoic acid, 2-[4-(1,1-dimethylethyl)phenoxy]-	222	C13H18O3
3.	3,3,6,9,9,10-Hexamethyl-2,10-diazabicyclo[4.4.0]-1-d ecene	222	C14H26N2
4.	3,4-DIHYDRO-5,7-DIMETHOXY-4-METHYLCOUNARIN	222	C12H14O4
5.	1,3,5-trimethyl-2-(1-phenylethenyl)benzene	222	C17H18

Sample file: >B4109 Spectrum #: 1335
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	27*	70582682	79951	"BIGDB	28	53	3	0	100	40	10	13
2.	27*	6941124	74327	"BIGDB	27	99	3	0	61	40	10	13
3.	21*	0	74348	"BIGDB	34	5	0	0	56	57	5	33
4.	15*	62995146	74340	"BIGDB	27	48	3	0	61	60	3	13
5.	15*	1667023	74351	"BIGDB	30	29	2	0	46	57	3	15

091325





flea 6/3/94.

UNKNOWN #,19

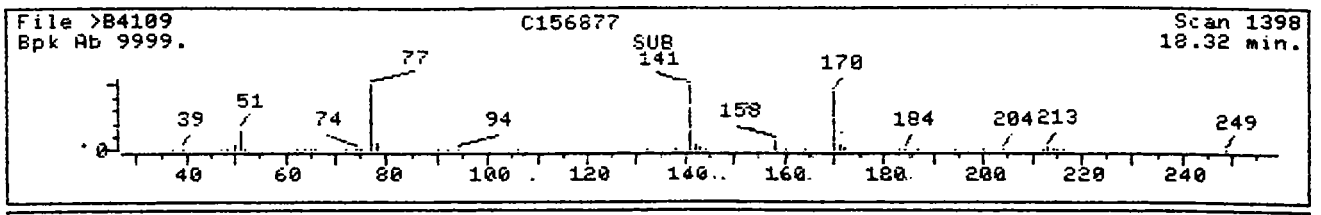
RT = 18.26 AREA = 282181.0 RESPONSE FACTOR IS 16.00

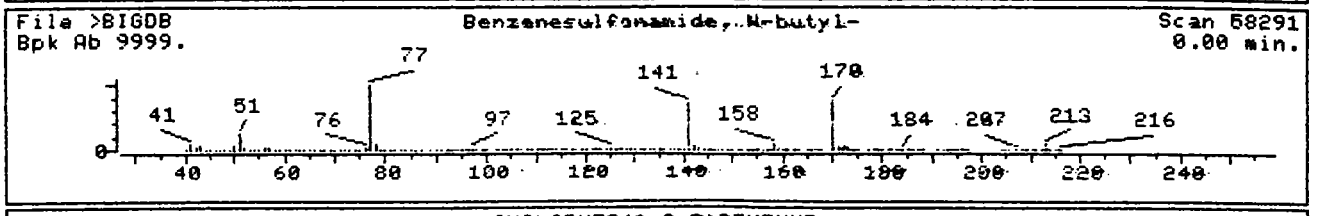
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

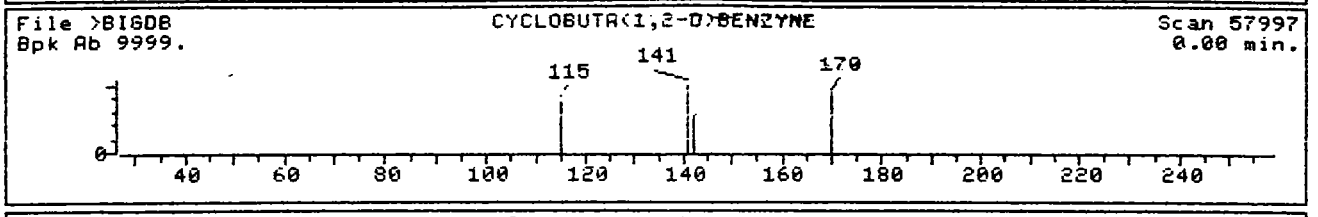
1. 1ST PEAK IN FYROL PCF 295 C9H18Cl3O4

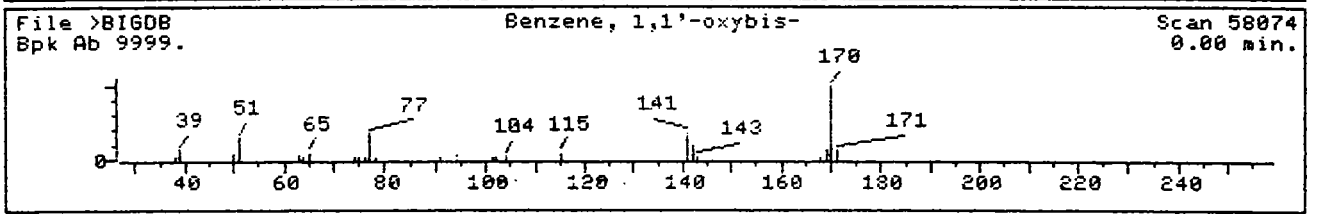
Sample file: >B4109 Spectrum #: 1393
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	0	37522	*BIGDB	62	99	2	0	62	52	5	13









UNKNOWN #20 JC 6/3/94.

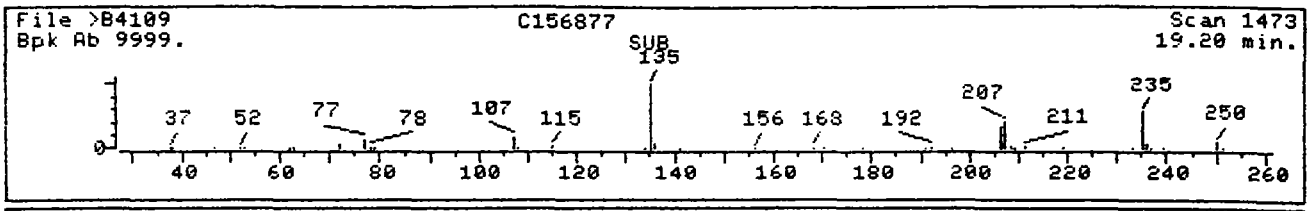
RT = 18.32 AREA = 351649.0 RESPONSE FACTOR IS 20.00

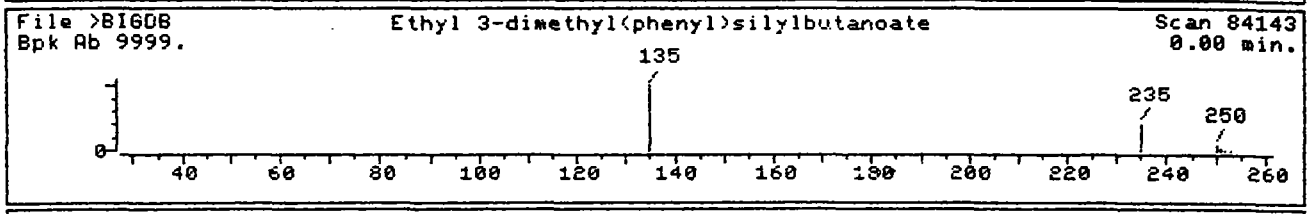
DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

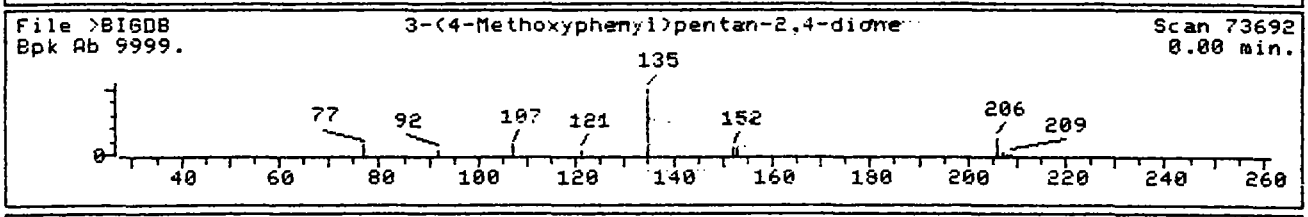
1.	Benzenesulfonamide, N-butyl-	213	C10H15NO2S
2.	CYCLOBUTA(1,2-D)BENZYNE	170	C12H10O
3.	Benzene, 1,1'-oxybis-	170	C12H10O
4.	Benzene, 1,1'-oxybis-	170	C12H10O

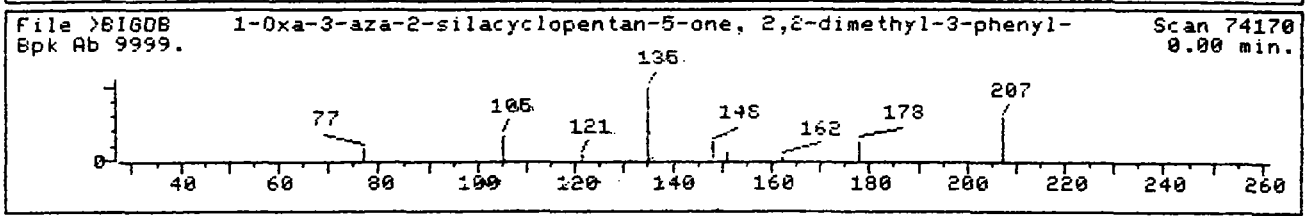
Sample file: >B4109 Spectrum #: 1398
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	3622842	58291	"BIGDB	62	55	2	0	97	0	55	13
2.	25*	59817140	57997	"BIGDB	20	20	2	0	97	43	8	13
3.	20*	101848	58074	"BIGDB	22	78	3	0	88	52	5	12
4.	20*	101848	58068	"BIGDB	22	81	3	0	88	52	5	12









AG 6/2/94

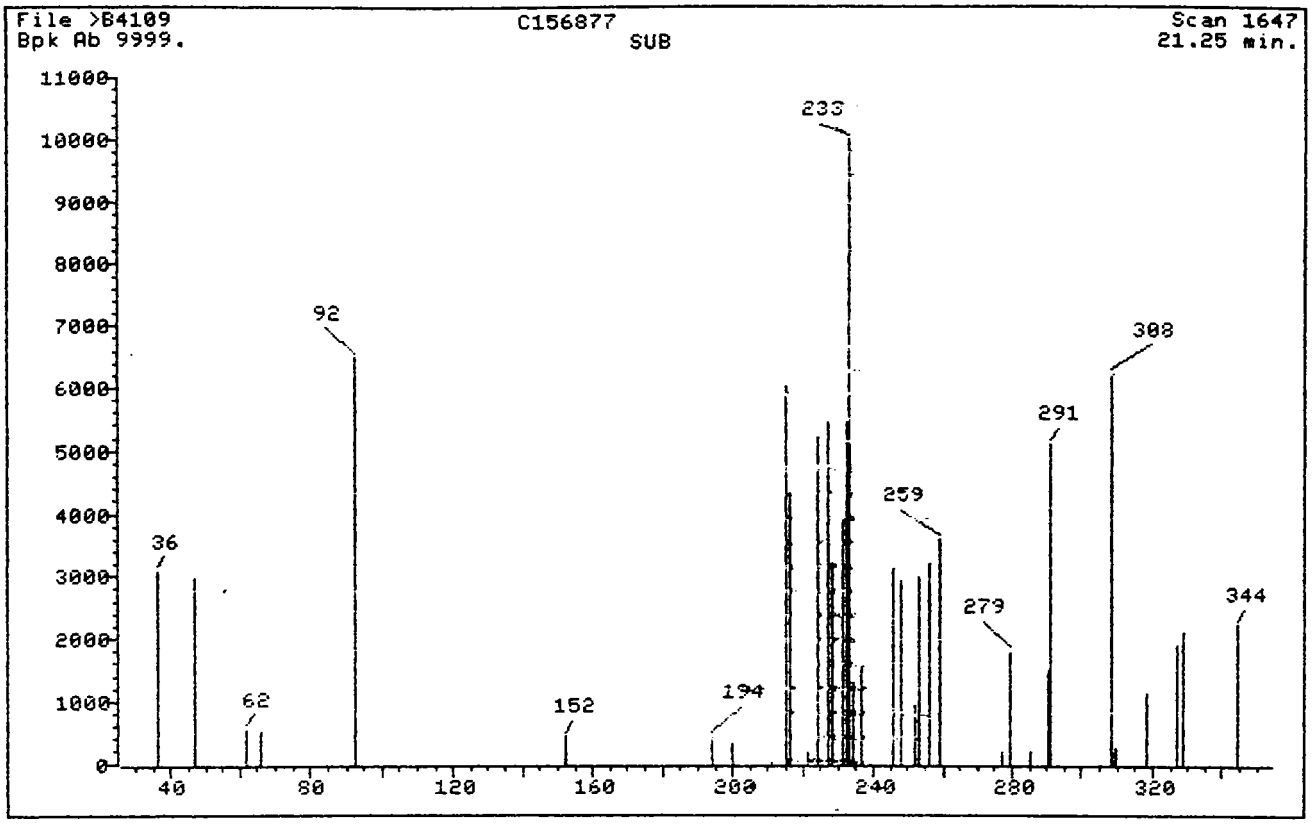
UNKNOWN #,21
RT = 19.20 AREA = 285071.0 RESPONSE FACTOR IS 17.00

DATA FILE: >B4109::D7 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

1. Ethyl 3-dimethyl(phenyl)silylbutanoate 250 C14H22O2Si
2. 3-(4-Methoxyphenyl)pentan-2,4-dione 206 C12H14O3
3. 1-Oxa-3-aza-2-silacyclopentan-5-one, 2,2-dimethyl-3-phenyl- 207 C10H13NO2Si

Sample file: >B4109 Spectrum #: 1473
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	67473432	84143	"BIGDB	23	16	1	0	85	45	8	14
2.	25*	0	73692	"BIGDB	26	44	3	0	100	48	7	13
3.	25*	57954435	74170	"BIGDB	25	49	3	0	72	42	8	13



See attached.
HQ 6/3/94.

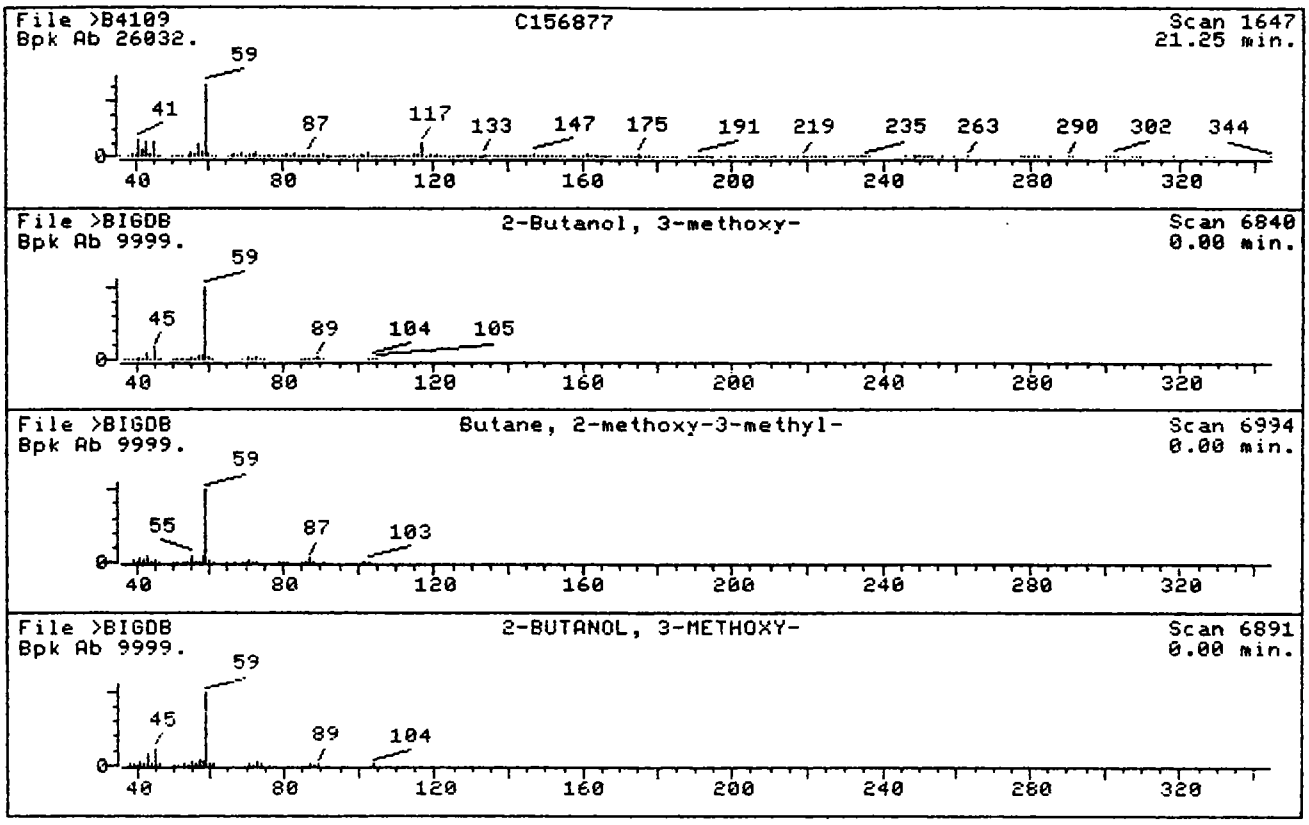
UNKNOWN #,22

RT = 21.25 AREA = ~~311760.0~~ 702224 RESPONSE FACTOR IS ~~18.00~~ 229.

DATA FILE: >B4109::07 DATE/TIME: 5/25/94 23:44 MASS SPEC # 1

Sample file: >B4109 Spectrum #: 1647

No data base entries were retrieved.



unknown HO 6/3/94.

1. 2-Butanol, 3-methoxy-	104	C5H12O2
2. Butane, 2-methoxy-3-methyl-	102	C6H14O
3. 2-BUTANOL, 3-METHOXY-	104	C5H12O2
4. 1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3
5. Propanoic acid, 2-hydroxy-2-methyl-, methyl ester	118	C5H10O3
6. Butanamide, 3-methyl-	101	C5H11NO

Sample file: >B4109 Spectrum #: 1647
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59*	53778726	6840	"BIGDB	38	46	0	0	72	33	22	44
2.	57*	62016493	6994	"BIGDB	37	37	0	0	72	33	22	42
3.	56*	53778726	6891	"BIGDB	50	37	1	0	90	33	22	41
4.	52	13588288	7209	"BIGDB	42	46	1	0	68	16	20	15
5.	48*	2110783	6885	"BIGDB	47	43	1	0	91	33	20	32
6.	45*	541468	6951	"BIGDB	48	34	2	0	100	33	16	28

HO 5/27/94

QUANT REPORT

Operator ID: HAIYAN
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Mode:

Quant Rev: 7
Quant Time: 940526 01:13
Injected at: 940526 00:33
Dilution Factor: 1.00000
Instrument ID: [illegible]
PTL #12

OK

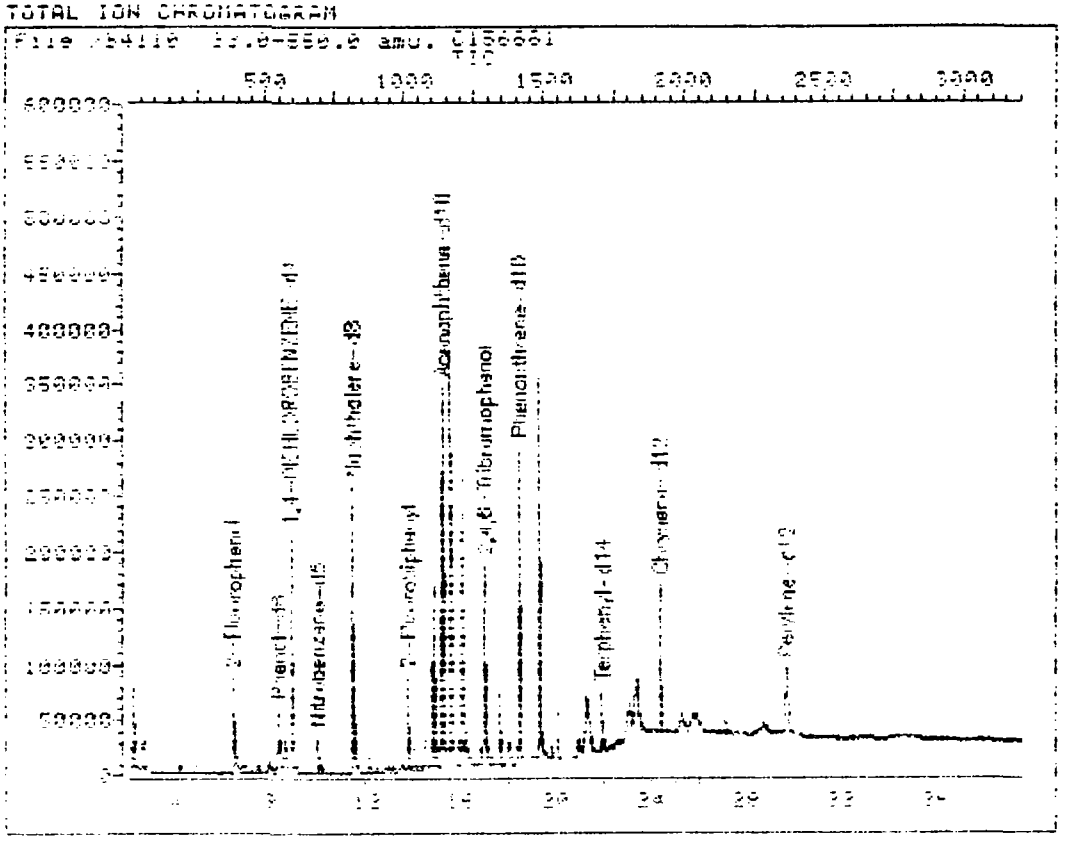
ID File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 09:57
Last Qual Time: 940525 13:34

	Compound	R.T.	Quan	Area	Conc	Units		Q
1)	*1,4-DICHLOROBENZENE-d4	9.90	152.0	64494	40.00	UG/L		93
4)	2-Fluorophenol	6.39	112.0	65979	35.79	UG/L		96
10)	Phenol-d6	9.29	99.0	49949	27.46	UG/L		94
18)	*Naphthalene-d8	11.47	136.0	222407	40.00	UG/L		96
22)	Nitrobenzene-d5	9.94	99.0	95244	9.59	UG/L		97
28)	Naphthalene	11.47	128.0	3340	[illegible]	UG/L	BDL	100
32)	2-Methylnaphthalene	12.97	142.0	3000	[illegible]	UG/L	↓	75
33)	*Acenaphthene-d10	15.00	164.0	171741	40.00	UG/L		100
35)	[illegible]	13.77	170.0	[illegible]	[illegible]	UG/L		95
44)	2,6-Dinitrotoluene	14.74	165.0	20107	10.51	UG/L		100
46)	2,4,6-Trichlorophenol	16.95	200.0	74974	41.[illegible]	UG/L		100
57)	*Phenanthrene-d10	19.40	189.0	275957	40.00	UG/L		100
68)	gamma-BHC (Lindane)	17.97	181.	3000	[illegible]	UG/L	BDL	69
73)	Di-n-butylphthalate	19.74	149.0	9925	[illegible]	UG/L	↓	82
86)	*Chrysene-d12	24.31	240.	164970	40.00	UG/L		100
91)	bis(2-Ethylhexyl)phthalate	24.35	149.0	5157	[illegible]	UG/L	BDL	84
93)	Terphenyl-d14	21.90	244.0	43970	9.94	UG/L		100
94)	*Perylene-d12	29.44	264.0	153330	40.00	UG/L		100

* Compound is [illegible]

001331

TOTAL ION CHROMATOGRAM



Data File: [illegible]
Name: [illegible]
Misc:

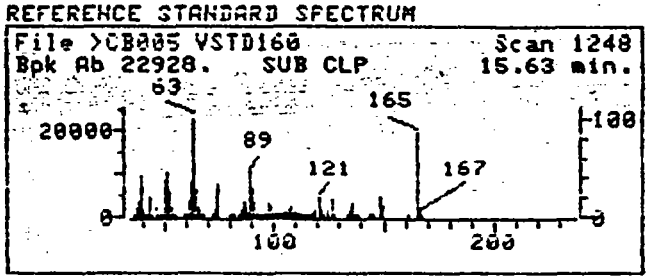
Quant Output File: [illegible]
Instrument ID: MSD102

RTL#12

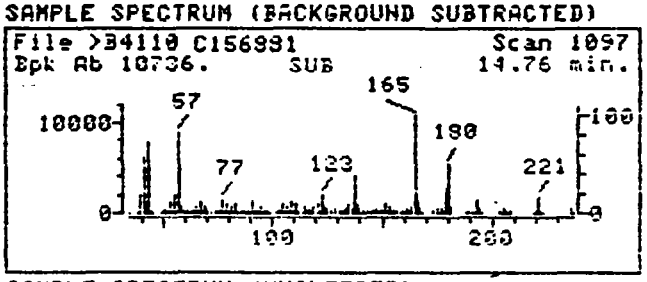
Id File: [illegible]
[illegible] SEMI VOLATILES ID FILE - INST #[illegible]
Last Calibration: 940324 00:57 Last Dial Time: [illegible]

Operator ID: [illegible]
Quant Time : 940526 01:13
Injected at: 940526 00:33

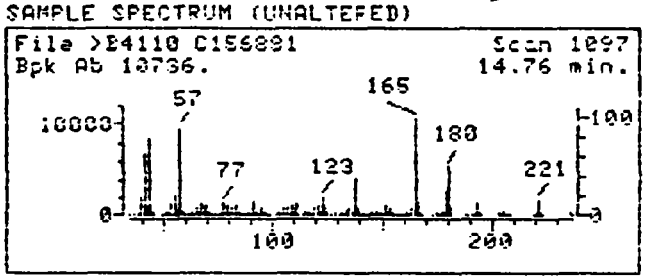
REFERENCE STANDARD SPECTRUM

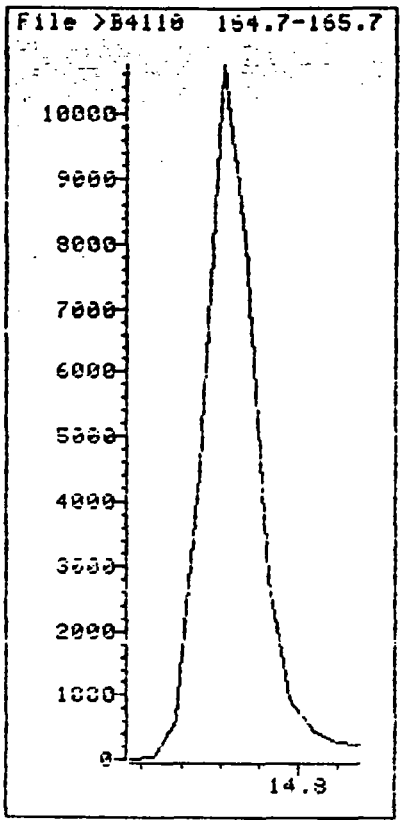


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >B4110::D7
Name: C156881
Misc:
Quant Time: 940526 01:13
Injected at: 940526 00:33
Last Qcal Time: 940525 13:34

Quant Output File: ^B4110::D5
Instrument ID: MSD102
BTL#12
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

Compound No : 44
Compound Name : 2,6-Dinitrotoluene
Scan Number : 1097
Retention Time: 14.76 min.
Quant Ion : 165.0
Area : 20107
Concentration : 12.51 UG/L
q-value : 100

HQ 5/27/94.

MS data file header from : >B4110::D7

Sample: C156881 Operator: HAIYAN RE6. GRP. 5/26/94 0:33
Misc : BTL#12
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 12 Equip ID: MSD102
Method file: BNA1M Tuning file: DFT1T No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures : 40. 280. 0. 0. 0.
Chromatographic times, min. : 3.0 14.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 12.0 0.0 0.0 .5 0.0

>B4110 C156881
33.0! 550.0 CLP TIC
Upslope: .2000 Area Reject: 36986. Max Peaks: 21 Bunch: 1 Valley >100 %
Dnslope: 0.0000 Results File IB4110 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	2.23	17	19	22	78123	118522	89823	5.84	1.490
2	2.59	46	50	53	27526	72814	47906	3.11	.795
3	7.85	499	503	508	17041	67054	57229	3.72	.949
4	8.55	558	563	573	42575	188360	138805	9.02	2.302
5	14.53	1074	1077	1083	31332	98680	59809	3.89	.992
6	14.85	1103	1105	1110	159952	332610	293123	19.06	4.862
7	15.52	1158	1162	1172	495504	1416067	1321479	85.91	21.919
8	15.84	1186	1189	1195	29352	116439	63117	4.10	1.047
9	15.99	1195	1202	1206	211347	480545	415278	27.00	6.888
10	16.08	1206	1210	1214	264547	611371	539574	35.08	8.950
11	16.24	1221	1224	1227	27190	90513	47208	3.07	.783
12	16.77	1266	1269	1278	13897	125187	42661	2.77	.708
13	17.58	1333	1338	1347	64405	276539	170362	11.07	2.826
14	18.24	1392	1395	1399	17188	78341	38410	2.50	.637
15	19.25	1470	1481	1486	341735	1684438	1538279	100.00	25.515
16	19.33	1486	1488	1495	40494	222627	103741*	6.74	1.721
17	19.98	1540	1543	1549	47487	197660	111612	7.26	1.851
18	20.91	1617	1623	1625	13500	155665	52679	3.42	.874
19	21.25	1640	1652	1670	50228	947467	517691	33.65	8.587
20	22.94	1792	1795	1798	15228	229825	53297	3.46	.884
21	23.33	1817	1828	1840	33971	1184406	326914	21.25	5.422

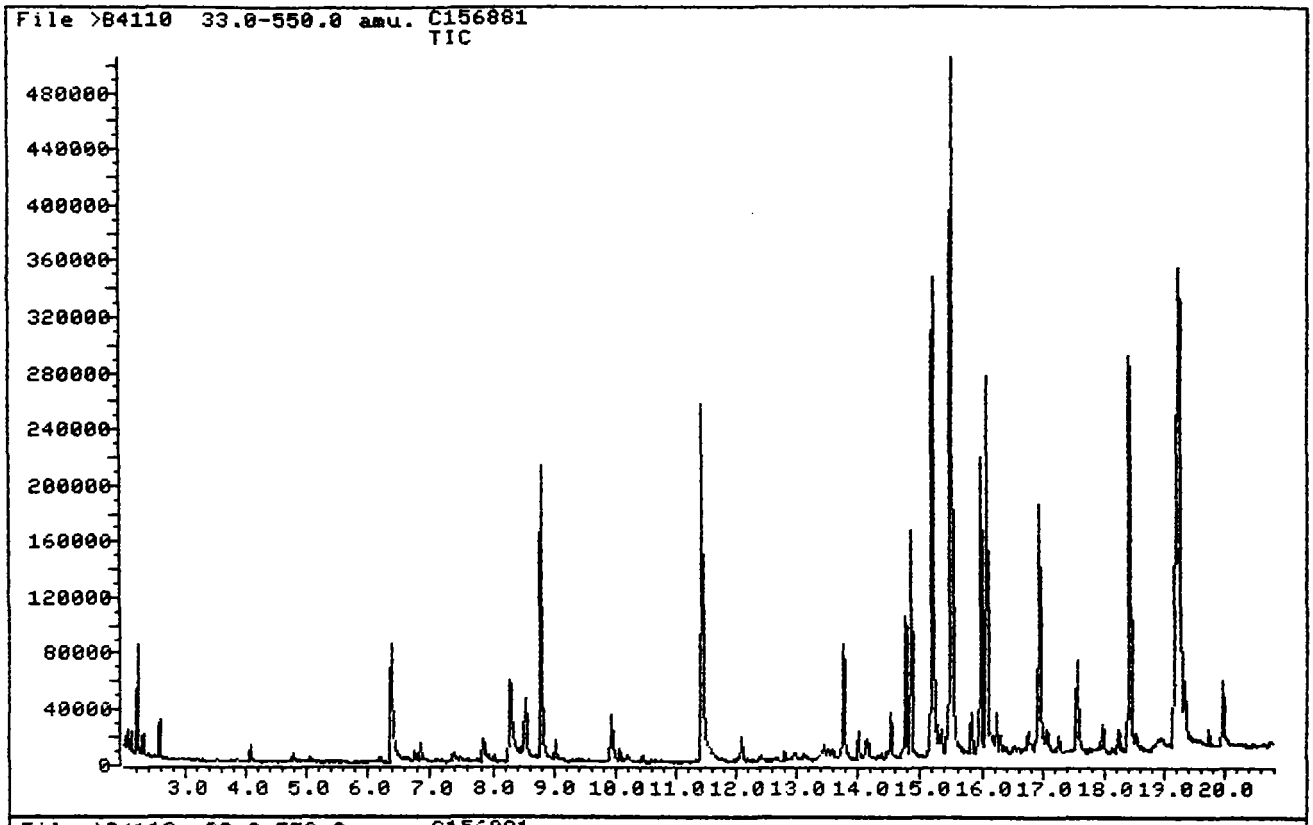
Sum of corrected areas: 6028997.

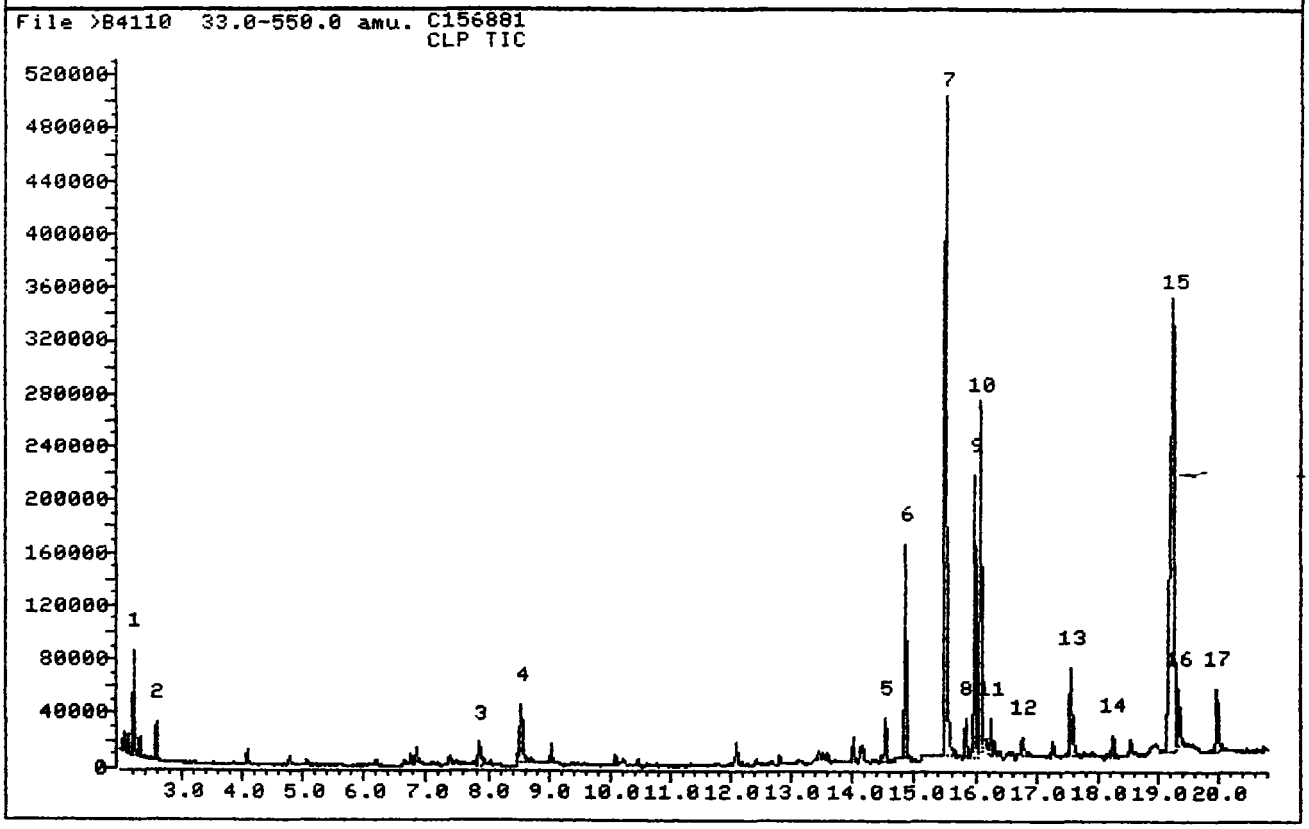
Summary of Unknowns PBM Library Search and Quantitation

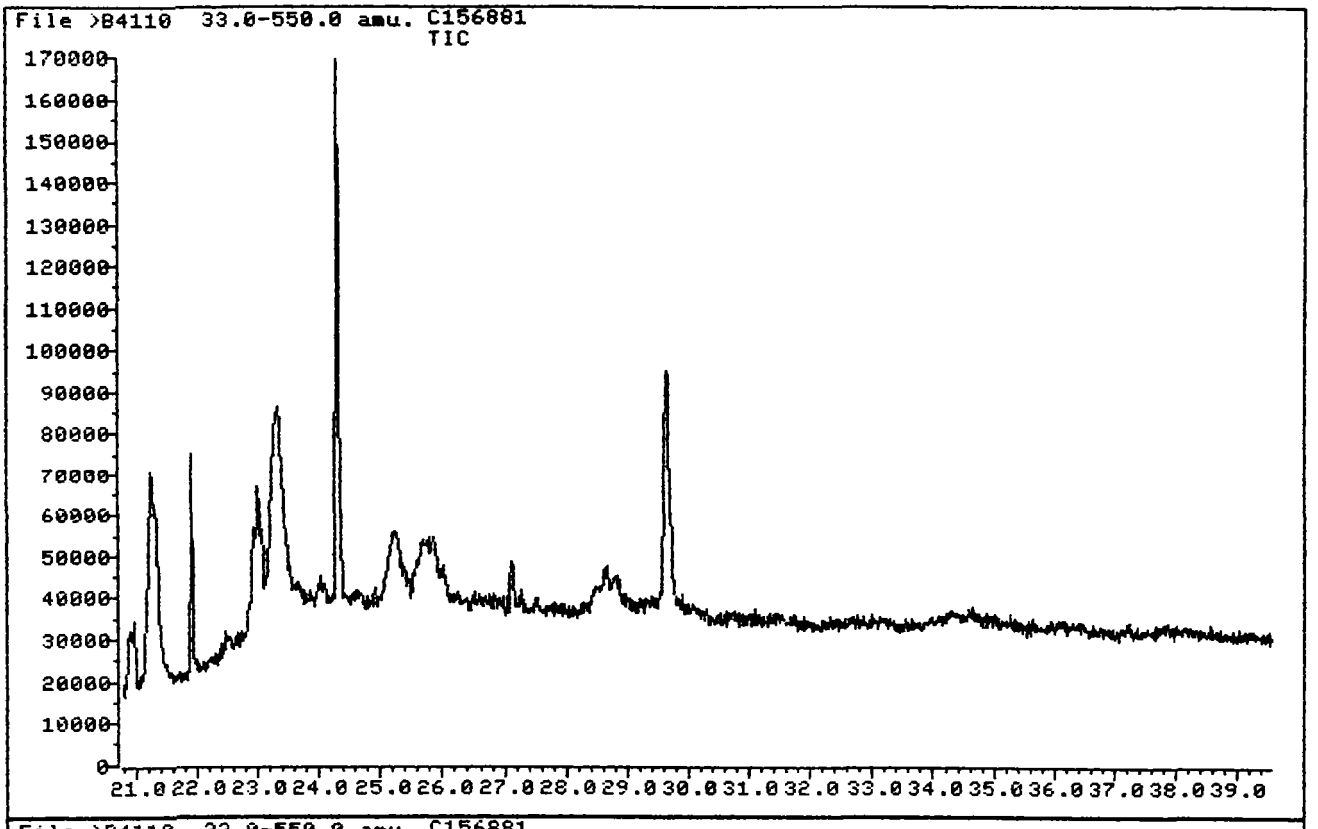
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	422253.	8.80	2.02 - 10.12
2	40.0	659135.	11.43	10.12 - 13.32
3	40.0	784343.	15.20	13.32 - 16.81
4	40.0	702417.	18.42	16.81 - 21.36
5	40.0	389208.	24.31	21.36 - 26.97
6	40.0	369856.	29.64	26.97 - 39.56

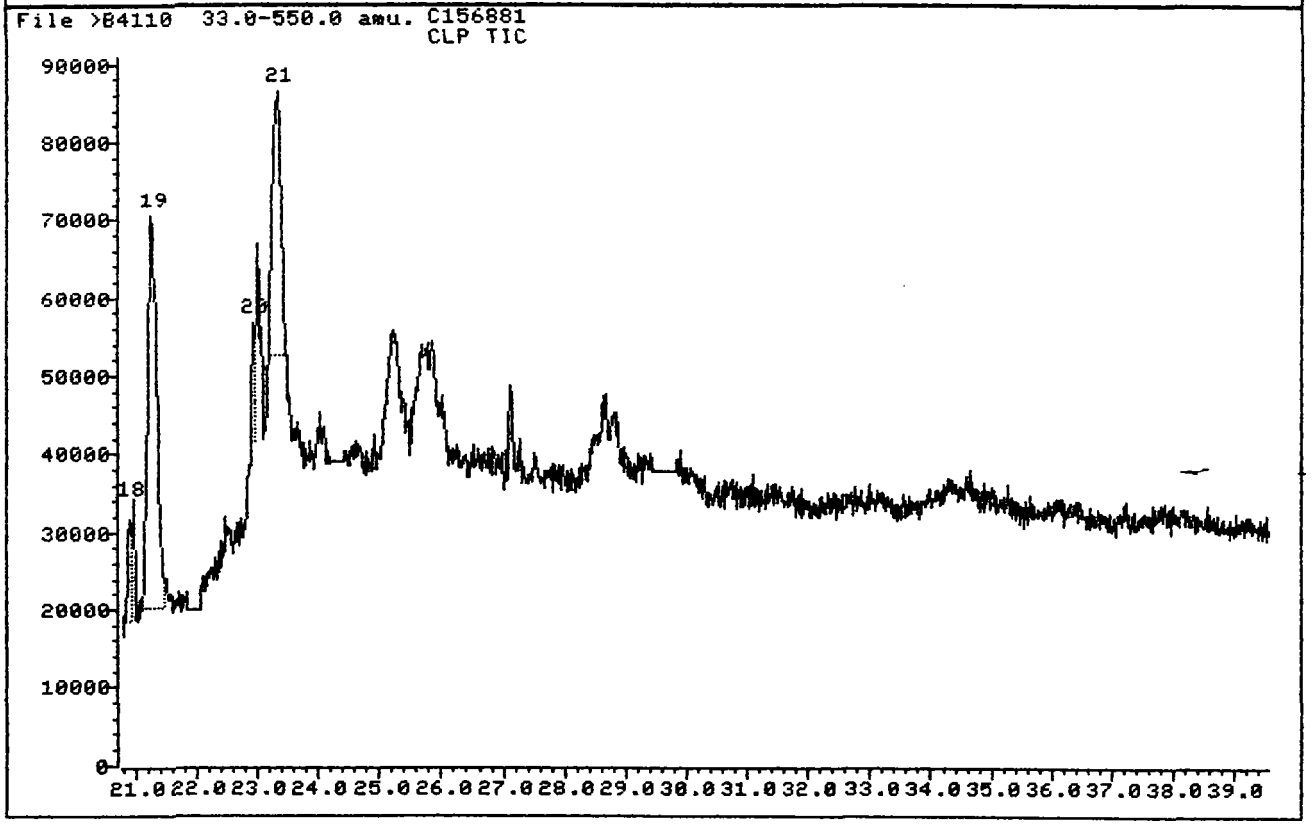
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

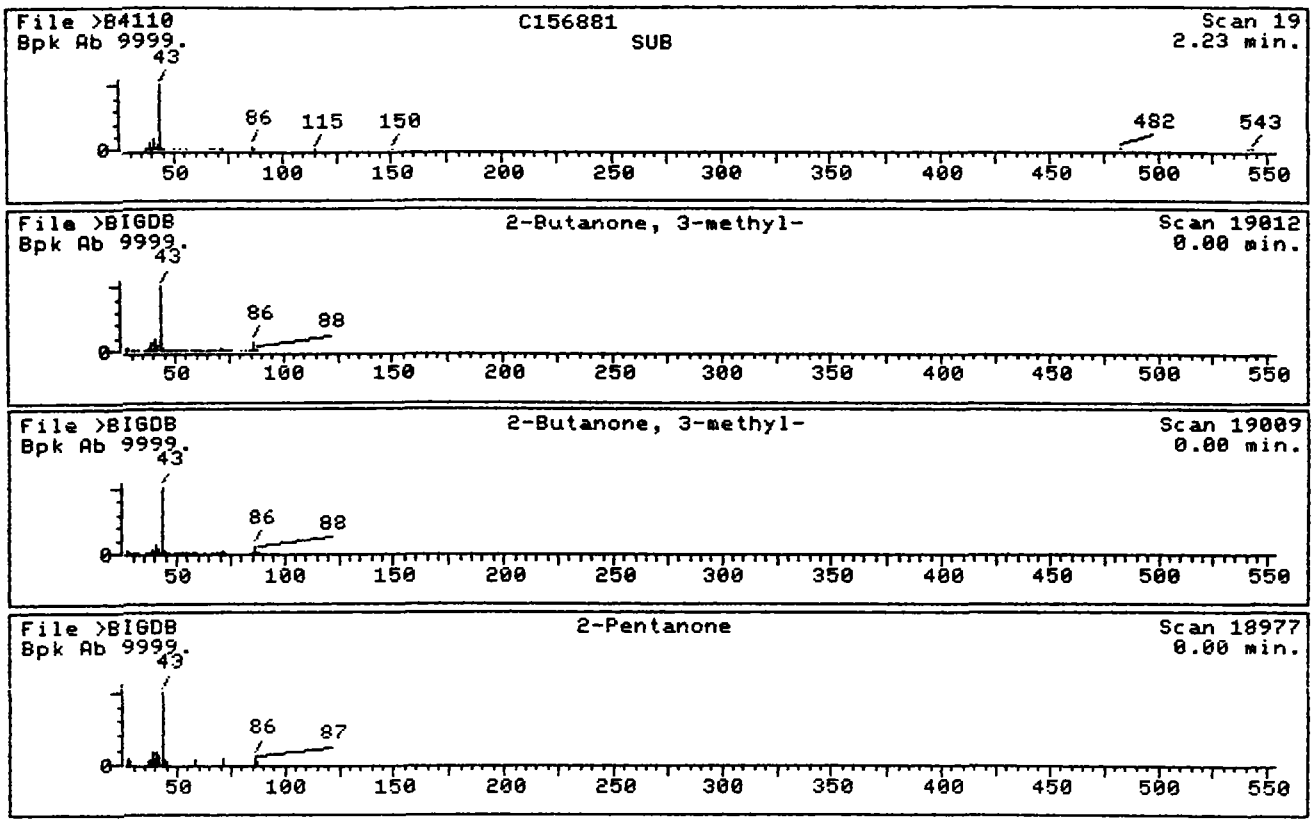
11:38 AM WED., 15 JUNE, 1994


File >B4110 33.0-550.0 amu. C156881
TIC
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0


File >B4110 33.0-550.0 amu. C156881
CLP TIC
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0


File >B4110 33.0-550.0 amu. C156881
TIC
170000
160000
150000
140000
130000
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0


File >B4110 33.0-550.0 amu. C156881
CLP TIC
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
18
19
20
21
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0



UNKNOWN #,1

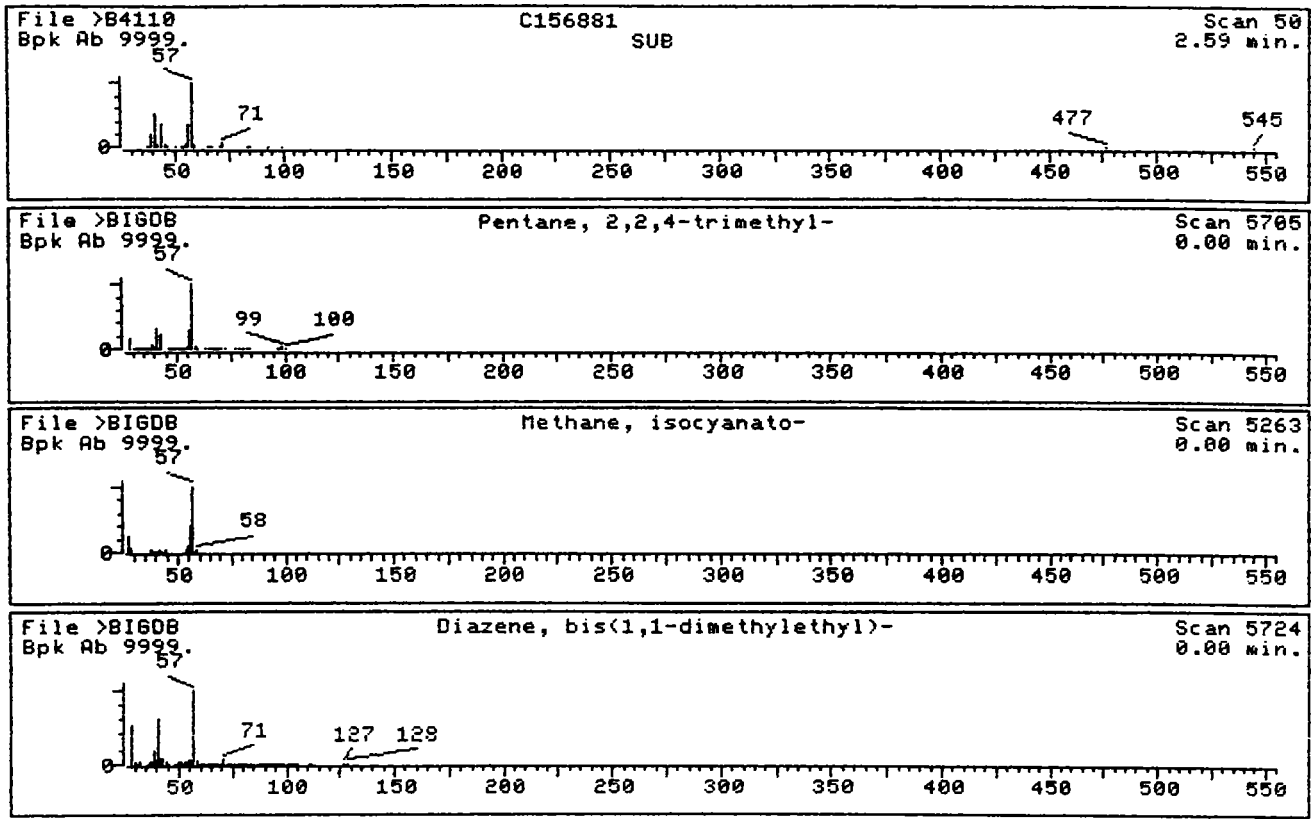
RT = 2.23 AREA = 89823.00 RESPONSE FACTOR IS 8.50 BM 6/15/94

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1. 2-Butanone, 3-methyl- 86 C5H10O
2. 2-Butanone, 3-methyl- 86 C5H10O
3. 2-Pentanone 86 C5H10O

Sample file: >B4110 Spectrum #: 19
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	563804	19012	"BIGDB	22	36	1	0	42	44	8	14
2.	26*	563804	19009	"BIGDB	25	41	1	0	58	41	8	14
3.	25*	107879	18977	"BIGDB	21	55	2	0	58	41	8	13



UNKNOWN #,2

RT = 2.59 AREA = 47906.00 RESPONSE FACTOR IS 4.50 Bm HO 6/15/94

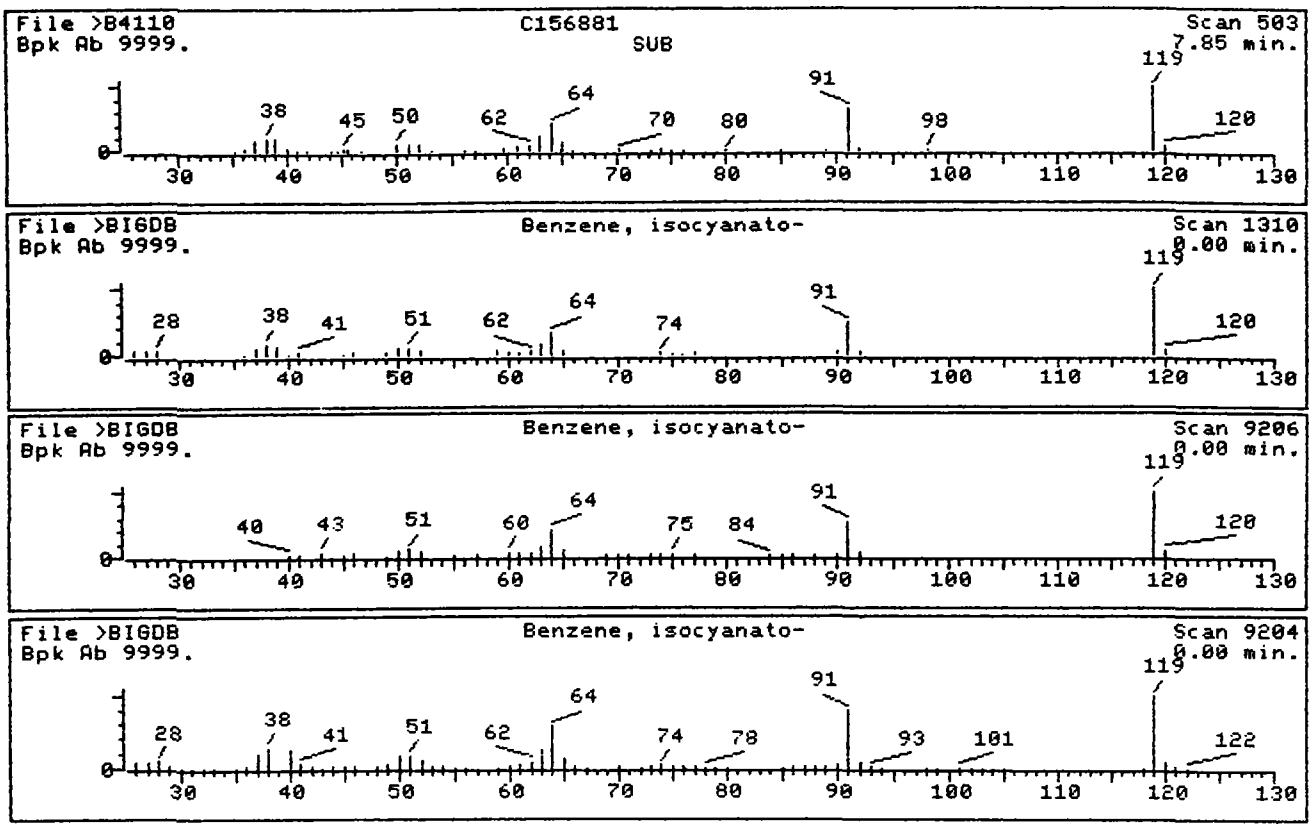
DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1.	Pentane, 2,2,4-trimethyl-	114	C8H18
2.	Methane, isocyanato-	57	C2H3NO
3.	Diazene, bis(1,1-dimethylethyl)-	142	C8H18N2
4.	Pentane, 3-methyl-	86	C6H14

Sample file: >B4110 Spectrum #: 50

Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	540841	5705	"BIGDB	37	35	1	0	100	13	30	14
2.	52*	624839	5263	"BIGDB	22	42	2	0	88	17	20	13
3.	42	927833	5724	"BIGDB	39	32	2	0	82	23	17	13
4.	35	96140	5298	"BIGDB	35	45	2	0	99	29	14	12



UNKNOWN #,3

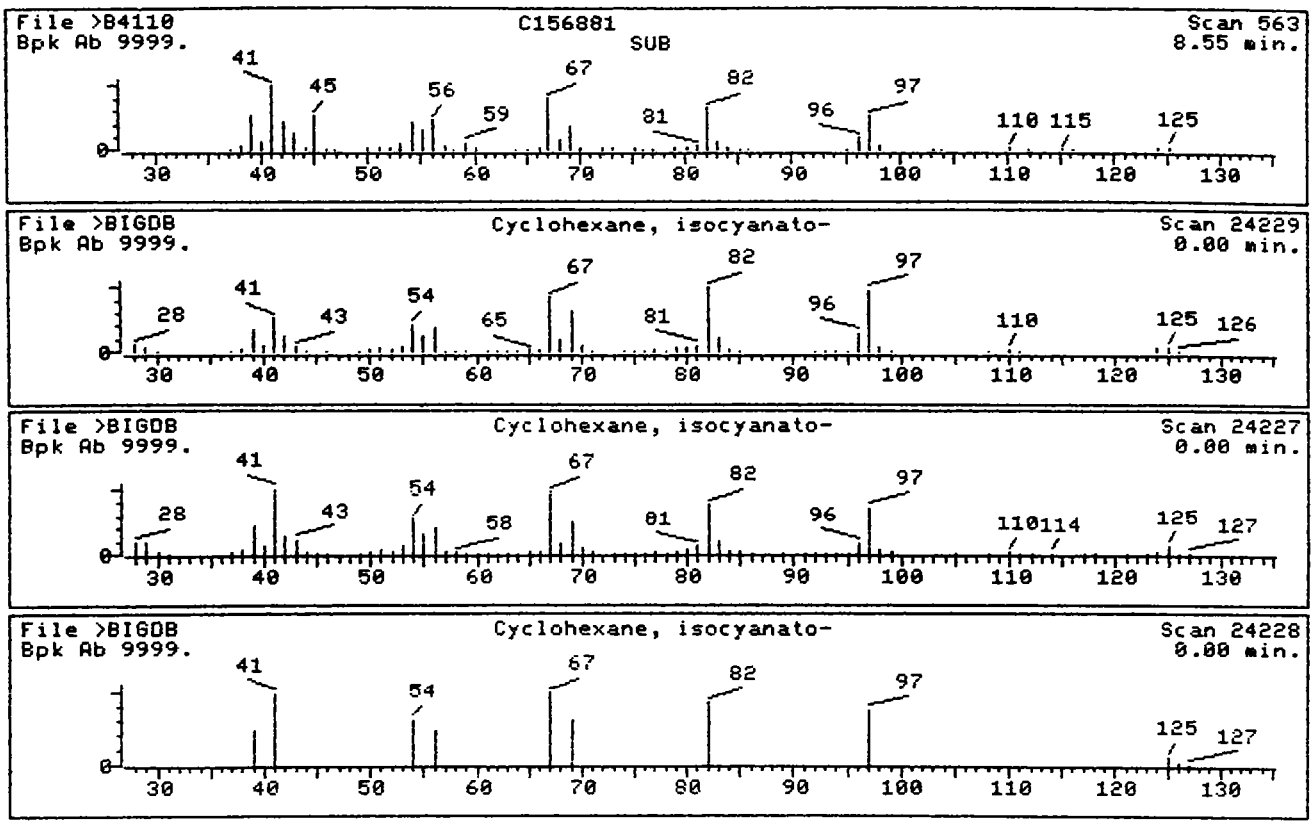
RT = 7.85 AREA = 57229.00 RESPONSE FACTOR IS 5.40 Bor HA 6/15/94

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1.	Benzene, isocyanato-	119	C7H5NO
2.	Benzene, isocyanato-	119	C7H5NO
3.	Benzene, isocyanato-	119	C7H5NO
4.	2,1-Benzisoxazole	119	C7H5NO
5.	Carbamic acid, phenyl-, methyl ester	151	C8H9NO2

Sample file: >B4110 Spectrum #: 503
Search speed: 1 Tilting option: N No. of ion ranges searched: 39

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	84*	103719	1310	"BIGDB	68	34	1	0	92	8	55	66
2.	69*	103719	9206	"BIGDB	64	41	1	0	70	31	26	63
3.	65*	103719	9204	"BIGDB	70	45	2	0	60	31	24	50
4.	60*	271589	9209	"BIGDB	51	58	3	0	91	11	30	14
5.	55	2603103	9214	"BIGDB	48	49	0	0	89	24	22	27



HO 6/15/94.

UNKNOWN #,4

RT = 8.55 AREA = 138805.0 RESPONSE FACTOR IS 13.00

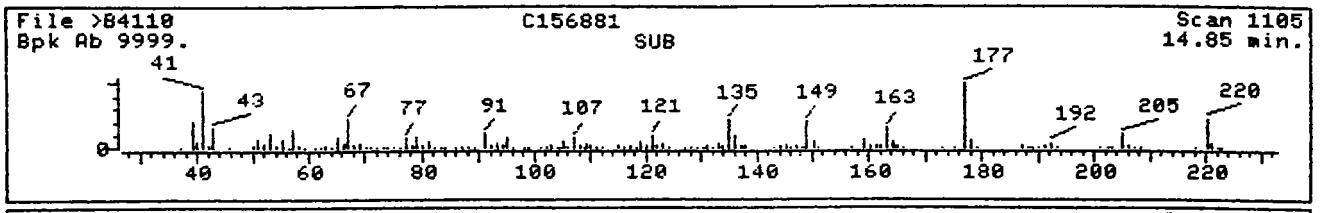
DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

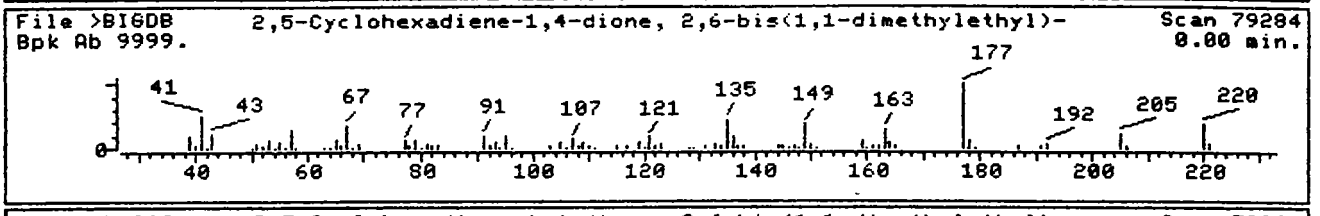
✓ 1.	Cyclohexane, isocyanato-	125	C7H11NO
2.	Cyclohexane, isocyanato-	125	C7H11NO
3.	Cyclohexane, isocyanato-	125	C7H11NO
4.	Cyclohexene	82	C6H10
5.	1,3-Isobenzofurandione, hexahydro-	154	C8H1003

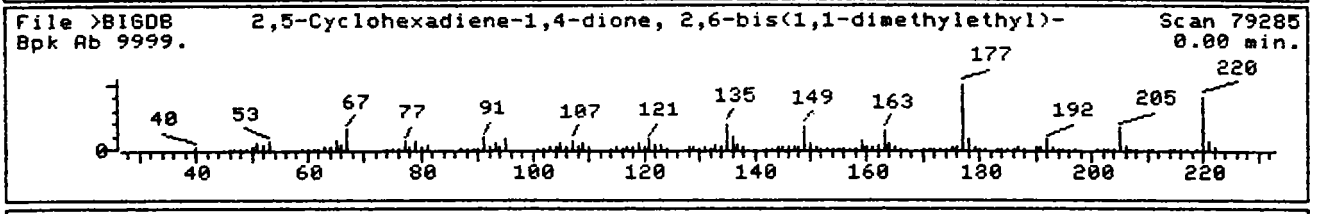
Sample file: >B4110 Spectrum #: 563

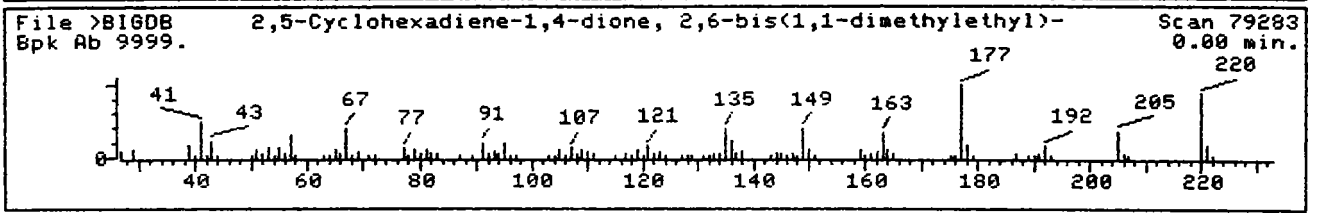
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	67*	3173533	24229	"BIGDB	71	43	1	0	52	40	28	71
2.	54	3173533	24227	"BIGDB	69	51	1	0	68	24	22	26
3.	47	3173533	24228	"BIGDB	53	27	2	0	71	21	17	18
4.	45*	110838	4797	"BIGDB	56	37	0	0	56	54	11	67
5.	30	85427	16433	"BIGDB	46	41	0	0	66	47	10	26









HO 6/15/94

UNKNOWN #,6

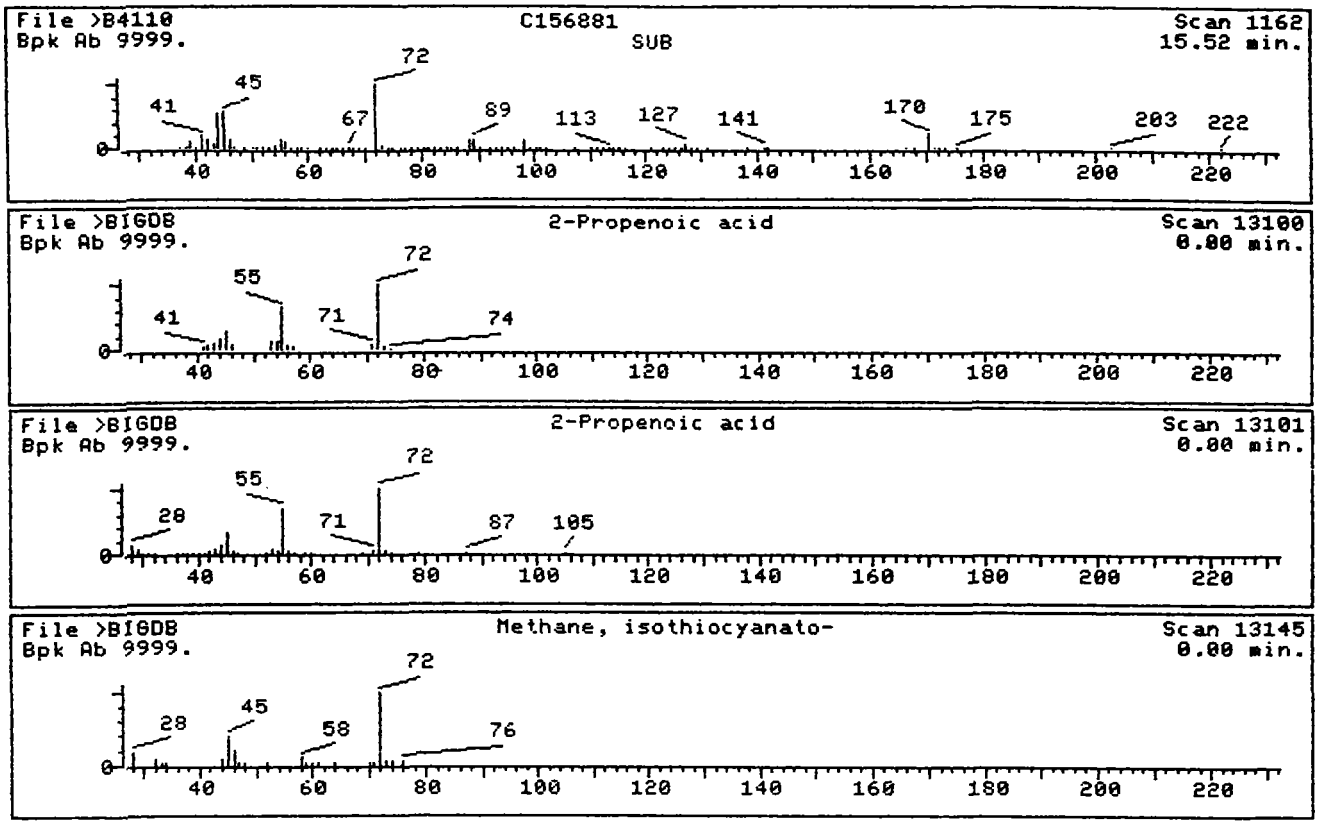
RT = 14.85 AREA = 293123.0 RESPONSE FACTOR IS 15.00

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1. 2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)- 220 C14H2002
2. 2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)- 220 C14H2002
3. 2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)- 220 C14H2002
4. 2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)- 220 C14H2002
5. .beta.-Ionone 192 C13H200

Sample file: >B4110 Spectrum #: 1105
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	99*	719222	79284	"BIGDB	154	0	0	0	91	0	72	99
2.	65*	719222	79285	"BIGDB	59	82	0	0	49	43	24	72
3.	59*	719222	79283	"BIGDB	61	103	1	0	52	38	21	57
4.	58	719222	79286	"BIGDB	105	51	3	0	100	16	25	25
5.	21*	14901076	61029	"BIGDB	54	61	2	0	100	60	5	[illegible]



no 6/15/94.

UNKNOWN #,7

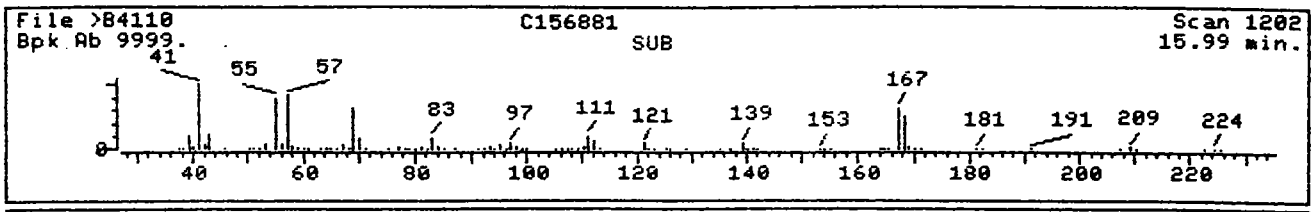
RT = 15.52 AREA = 1321479. RESPONSE FACTOR IS 67.00

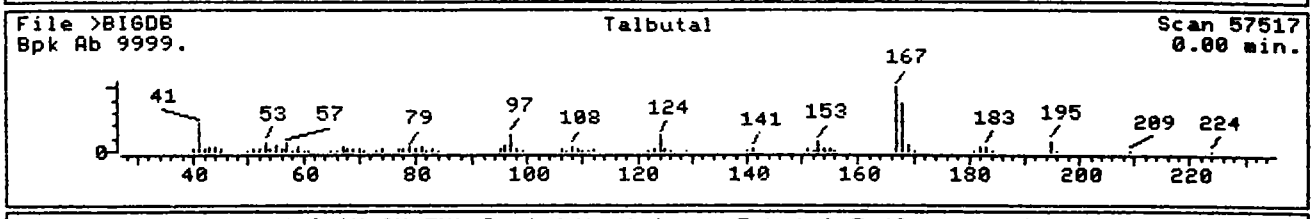
DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

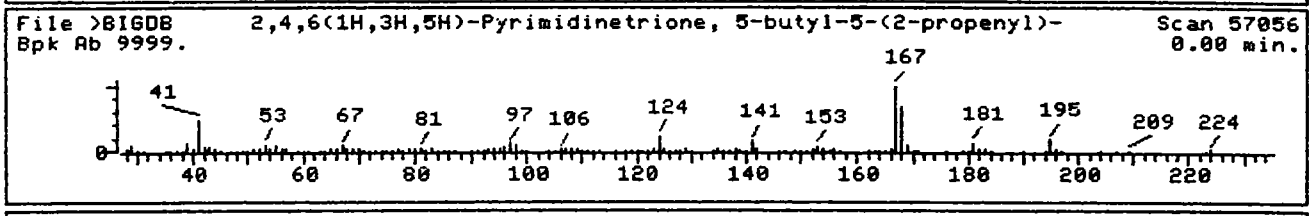
1. 2-Propenoic acid	72	C3H4O2
2. 2-Propenoic acid	72	C3H4O2
3. Methane, isothiocyanato-	73	C2H3NS
4. 1,2,4,5-D4-IMIDAZOLE	0	
5. Heptane, 1-(1-butenyloxy)-, (E)-	170	C11H22O

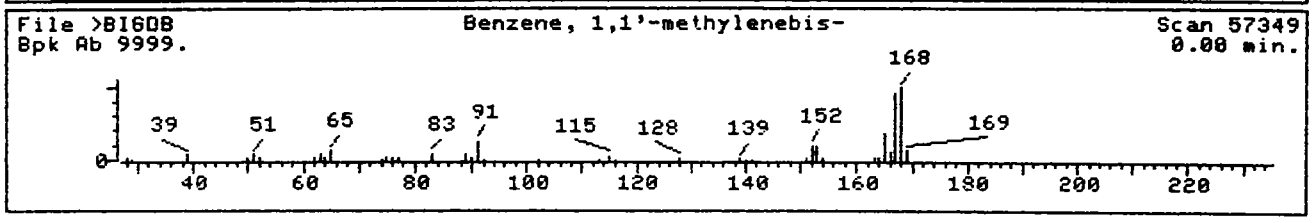
Sample file: >B4110 Spectrum #: 1162
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	79107	13100	"BIGDB	31	57	2	0	100	47	7	15
2.	25*	79107	13101	"BIGDB	22	69	2	0	100	50	7	13
3.	25*	556616	13145	"BIGDB	24	72	2	0	67	49	7	14
4.	20*	6923019	13122	"BIGDB	24	46	1	0	67	54	5	14
5.	20*	56052803	13611	"BIGDB	28	64	3	0	100	51	5	13









JLO 6/15/94

UNKNOWN #,9

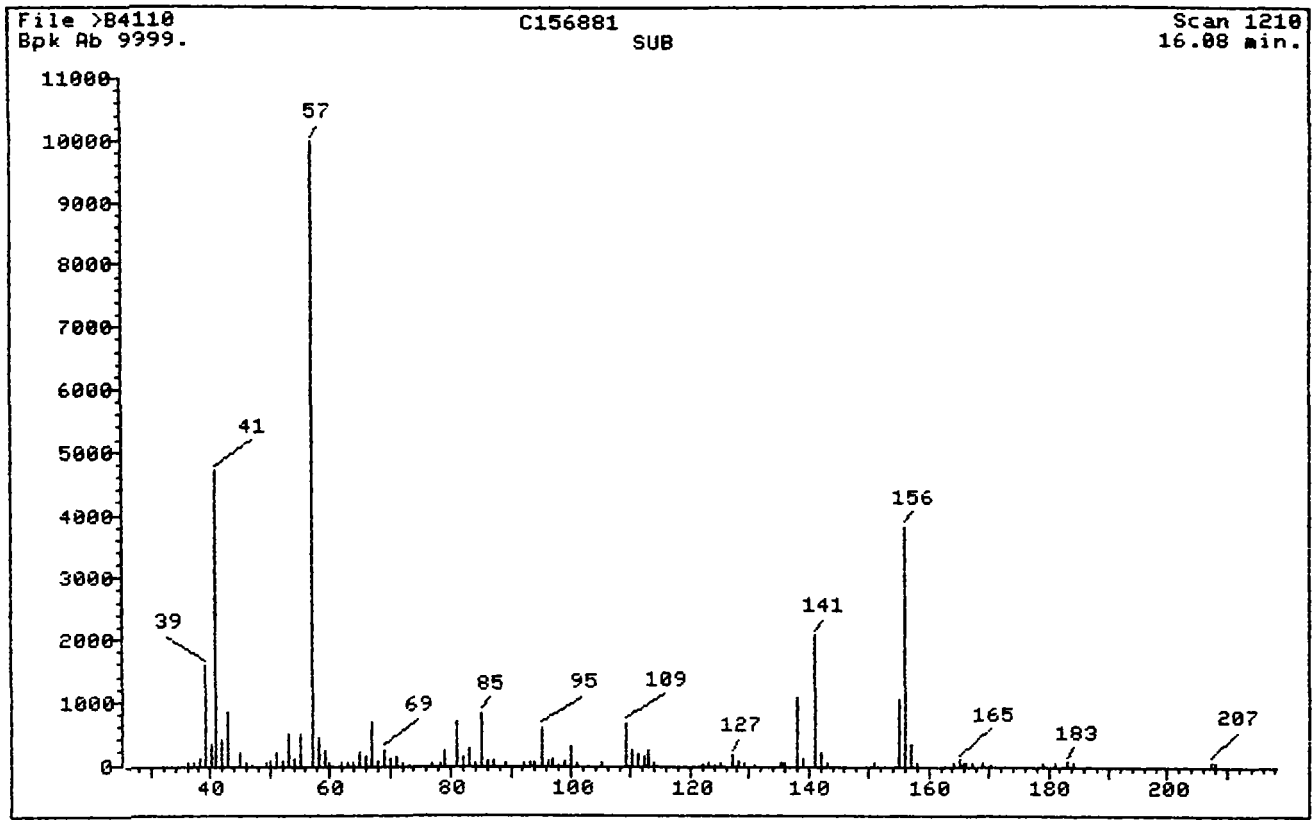
RT = 15.99 AREA = 415278.0 RESPONSE FACTOR IS 21.00

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1. Talbutal 224 C11H16N2O3
2. 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-butyl-5-(2-propenyl)- 224 C11H16N2O3
3. Benzene, 1,1'-methylenebis- 168 C13H12
4. Benzenemethanol, 3,4-dimethoxy- 168 C9H12O3
5. Sandoptal 224 C11H16N2O3

Sample file: >B4110 Spectrum #: 1202
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	115446	57517	*BIGDB	25	110	3	0	65	34	12	13
2.	27*	3146665	57056	*BIGDB	37	100	3	0	65	36	10	13
3.	24*	101815	57349	*BIGDB	23	76	3	0	50	42	8	12
4.	20*	93038	57334	*BIGDB	22	93	3	0	50	54	5	12
5.	20*	77269	57491	*BIGDB	22	113	3	0	50	54	5	12



KR 6/15/94

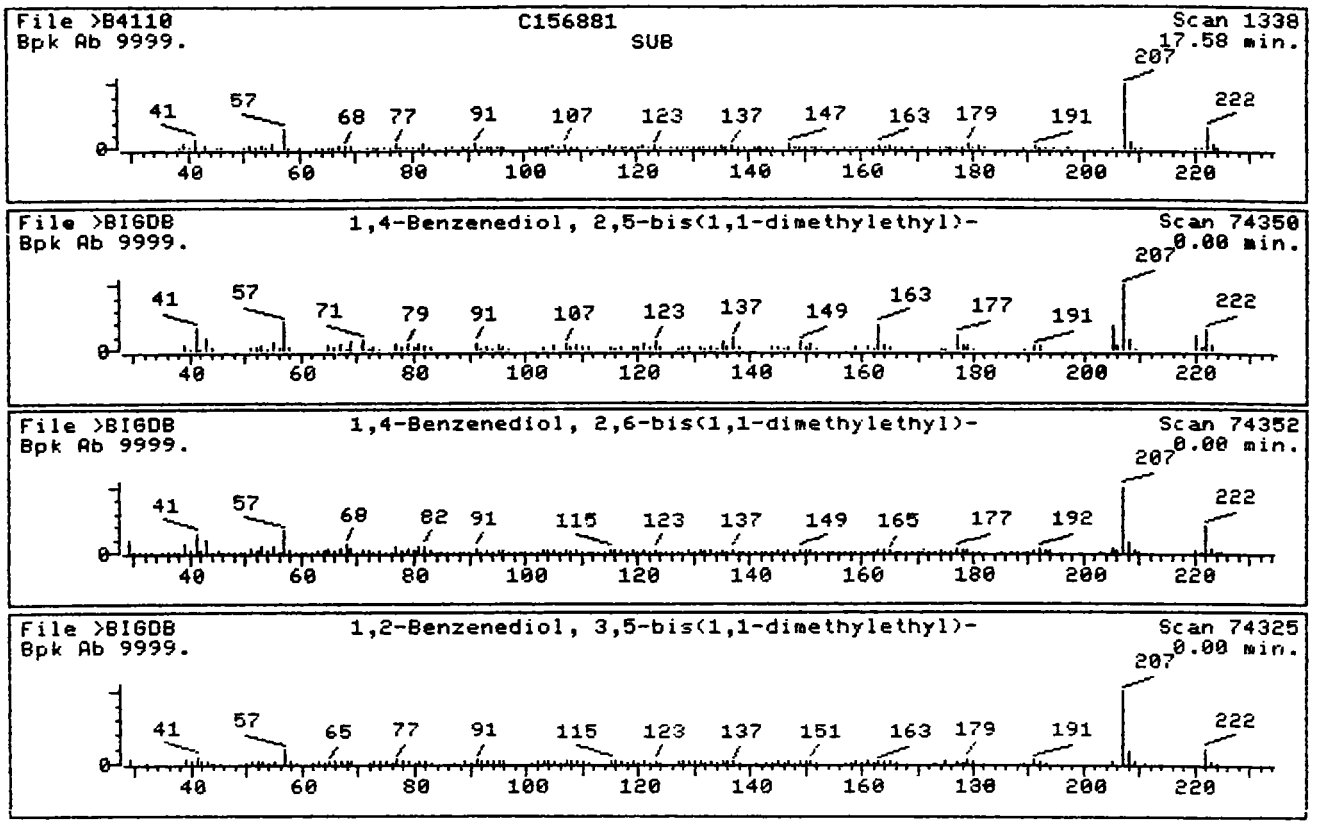
UNKNOWN #,10

RT = 16.08 AREA = 539574.0 RESPONSE FACTOR IS 28.00

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

Sample file: >B4110 Spectrum #: 1210

No data base entries were retrieved.



BOL HG 6/15/94

UNKNOWN #,13

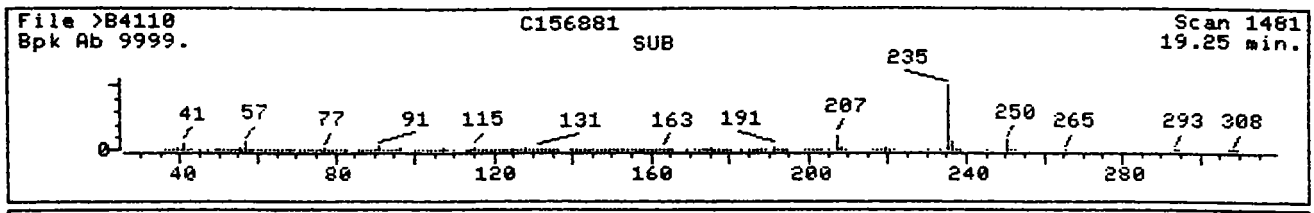
RT = 17.58 AREA = 170362.0 RESPONSE FACTOR IS 0.70

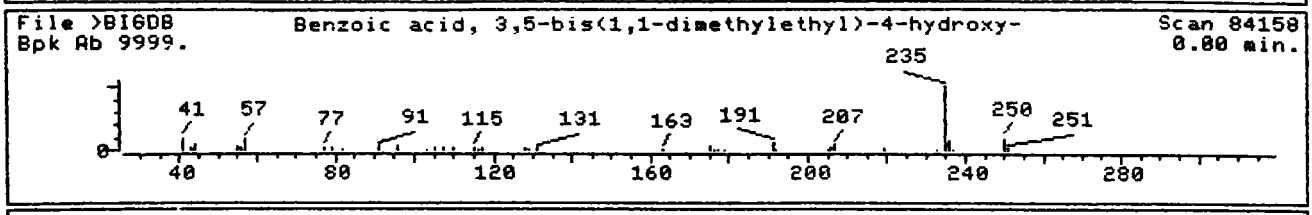
DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

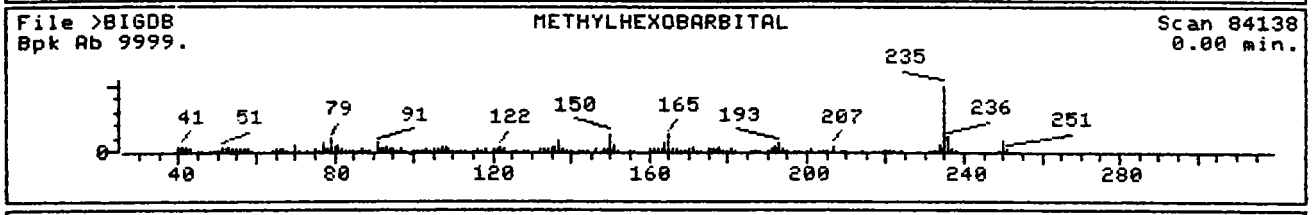
1. 1,4-Benzenediol, 2,5-bis(1,1-dimethylethyl)- 222 C14H22O2
2. 1,4-Benzenediol, 2,6-bis(1,1-dimethylethyl)- 222 C14H22O2
3. 1,2-Benzenediol, 3,5-bis(1,1-dimethylethyl)- 222 C14H22O2
4. 3,3,6,9,9,10-Hexamethyl-2,10-diazabicyclo[4.4.0]-1-decene 222 C14H26N2
5. Methanol, [4-(1,1-dimethylethyl)phenoxy]-, acetate 222 C13H18O3

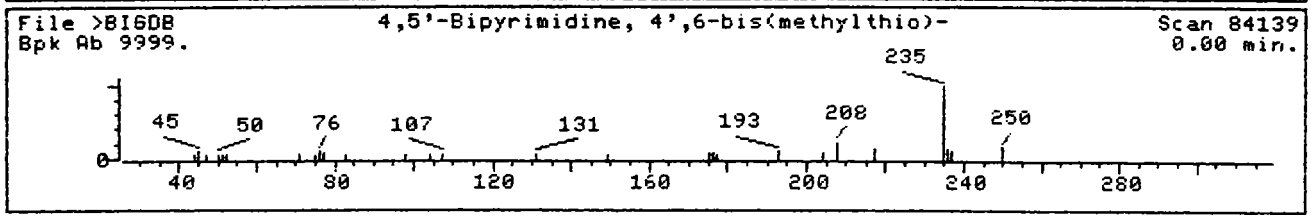
Sample file: >B4110 Spectrum #: 1338
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78*	88584	74350	"BIGDB	30	119	3	0	100	3	55	13
2.	76*	2444282	74352	"BIGDB	52	77	2	0	77	10	45	27
3.	75*	1020311	74325	"BIGDB	64	47	1	0	83	16	35	63
4.	66*	0	74348	"BIGDB	39	0	0	0	67	16	31	48
5.	63*	54889984	74333	"BIGDB	54	47	2	0	100	16	30	31









jkw 6/15/94

UNKNOWN #,15

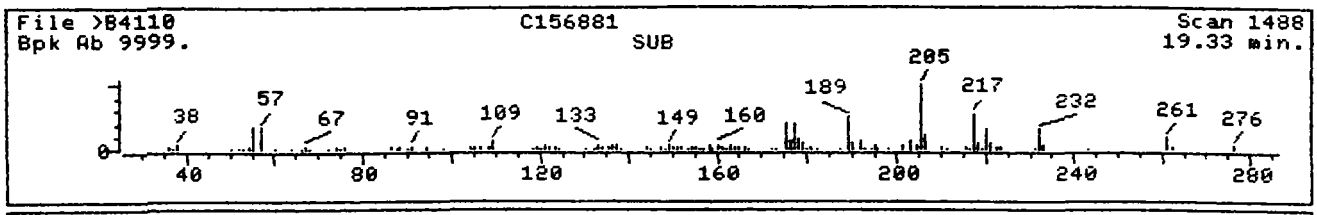
RT = 19.25 AREA = 1538279. RESPONSE FACTOR IS 88.00

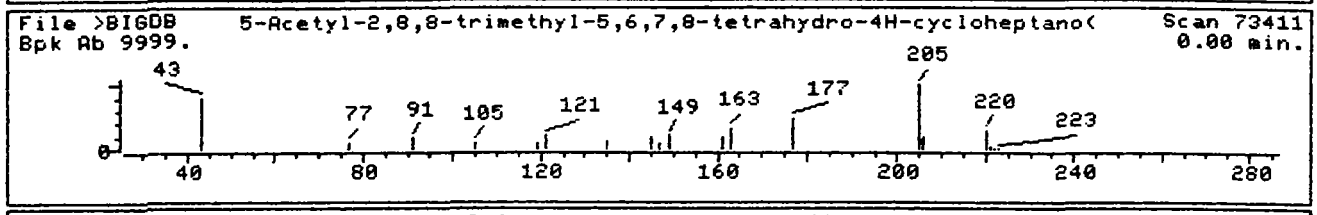
DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

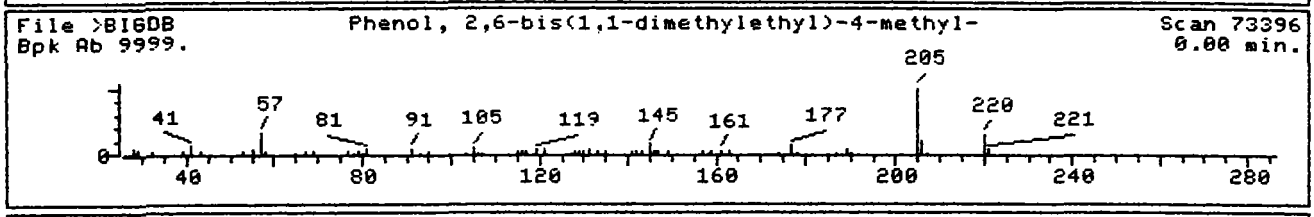
1.	Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-	250	C15H22O3
2.	METHYLHEXOBARBITAL	250	C13H18N2O3
3.	4,5'-Bipyrimidine, 4',6-bis(methylthio)-	250	C10H10N4S2
4.	[1]Benzothieno[2,3-b]quinoline	235	C15H9NS
5.	N-METHYLHEXOBARBITAL	250	C13H18N2O3

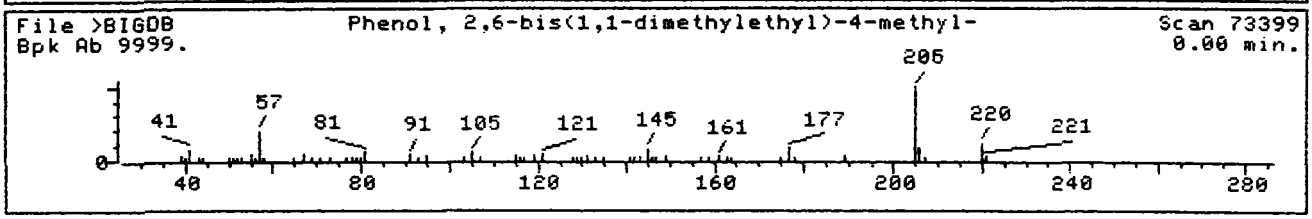
Sample file: >B4110 Spectrum #: 1481
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	66*	1421494	84158	"BIGDB	66	63	2	0	71	18	31	45
2.	52*	55334004	84138	"BIGDB	24	120	3	0	100	20	20	12
3.	42*	59549369	84139	"BIGDB	27	110	3	0	100	24	17	13
4.	37*	243470	84089	"BIGDB	29	87	2	0	83	27	14	14
5.	35*	726794	84130	"BIGDB	24	114	3	0	100	27	14	12









BOL HG 6/15/94

UNKNOWN #,16

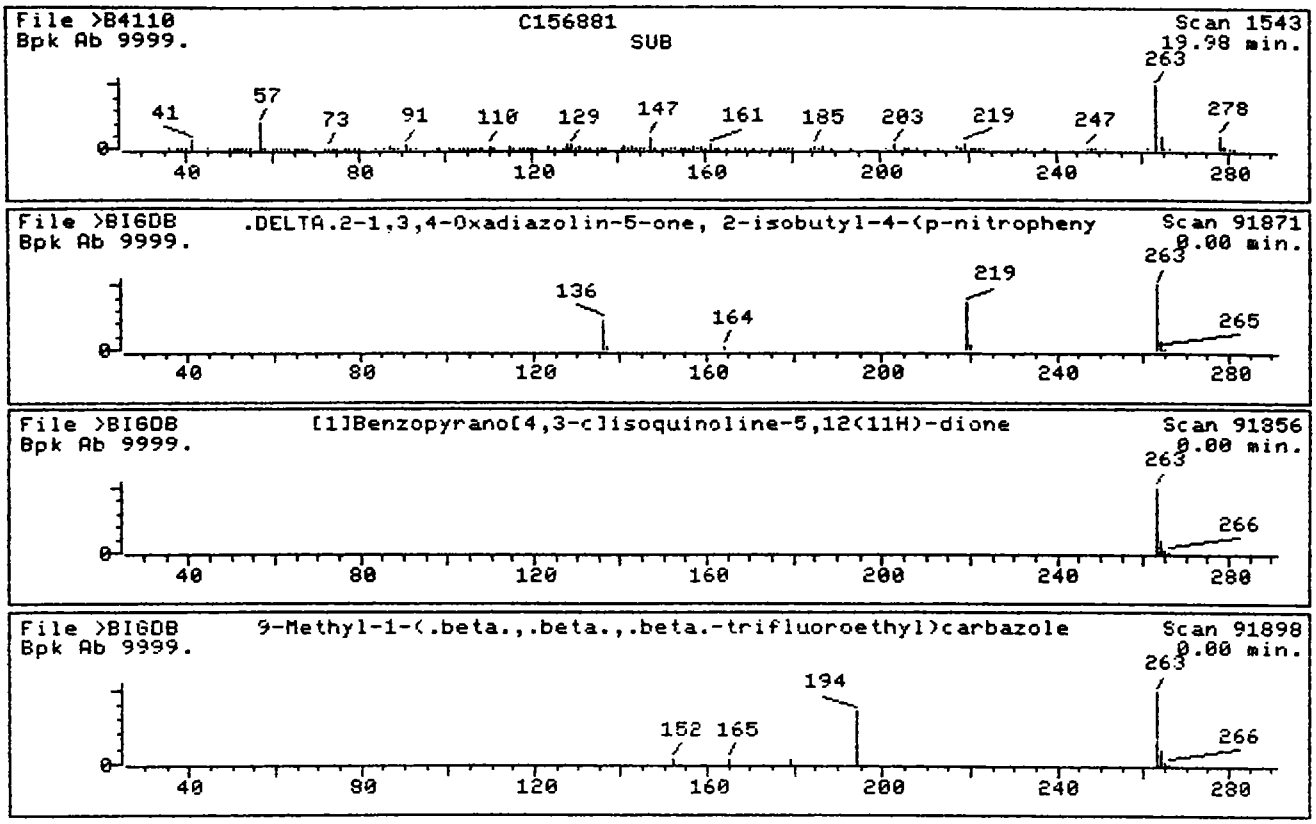
RT = 19.33 AREA = 103741.0 RESPONSE FACTOR IS 5/90

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1. 5-Acetyl-2,8,8-trimethyl-5,6,7,8-tetrahydro-4H-cyclo heptano(b)furan 220 C14H2002
2. Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 220 C15H240
3. Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 220 C15H240
4. 5,9-Methanobenzocycloocten-5(1H)-ol, 2,3,4,6,7,8,9,1 0-octahydro-2,2,4,7,7,9-hexamethyl- 276 C19H320
5. 3-Methyl-4,6-di-tert-butyl-phenol 220 C15H240

Sample file: >B4110 Spectrum #: 1488
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	71596888	73411	"BIGDB	38	104	3	0	85	49	7	13
2.	15*	128370	73396	"BIGDB	55	66	3	0	100	57	3	18
3.	15*	128370	73399	"BIGDB	31	96	3	0	100	60	3	13
4.	12*	16004845	73503	"BIGDB	49	81	2	0	100	65	2	22
5.	11*	0	73395	"BIGDB	23	39	2	0	100	61	2	13



Bm HO 6/15/94.

UNKNOWN #,17

RT = 19.98 AREA = 111612.0 RESPONSE FACTOR IS 6.40

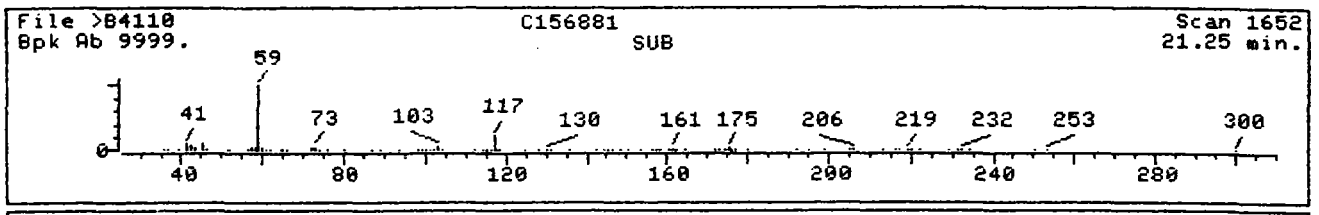
DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

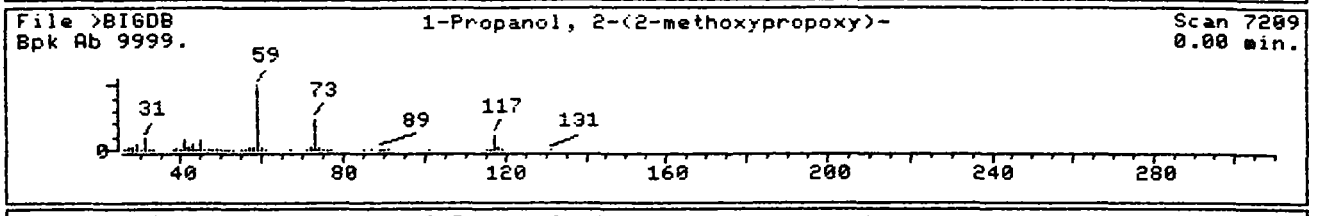
1. .DELTA.2-1,3,4-Oxadiazolin-5-one, 2-isobutyl-4-(p-nitrophenyl)- 263 C12H13N3O4
2. [1]Benzopyrano[4,3-c]isoquinoline-5,12(11H)-dione 263 C16H9NO3
3. 9-Methyl-1-(.beta.,.beta.,.beta.-trifluoroethyl)carbazole 263 C15H12F3N
4. 3-Methyl-6-cyano-7H-1,2,3,5,6,11c-hexahydro-pyrido[3,4-c]carbazole 263 C17H17N3
5. 2-Hydroxy-3-(1-oxo-1H-isoindol-3-yl)-imidazo[1,2-a]pyridine 263 C15H9N3O2

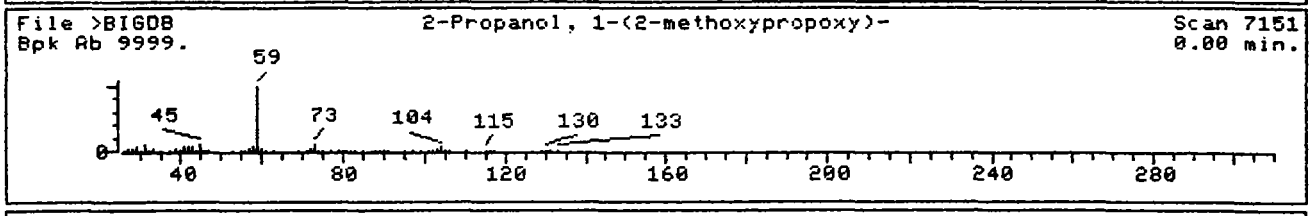
001648

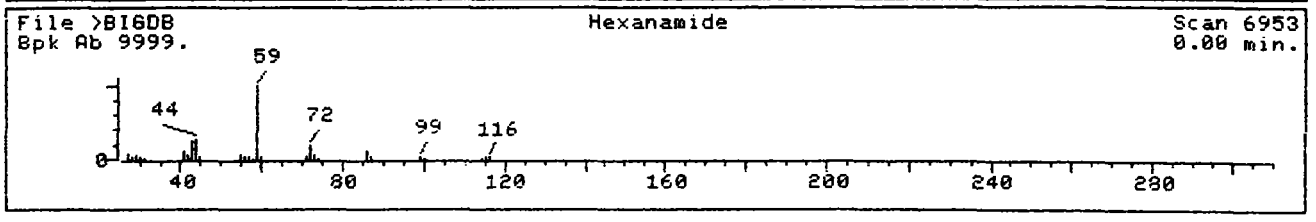
Sample file: >B4110 Spectrum #: 1543
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	35*	28741006	91871	"BIGDB	23	39	3	0	100	28	14	12
2.	34*	2288995	91856	"BIGDB	24	0	0	0	87	31	12	17
3.	31*	77436272	91898	"BIGDB	24	29	2	0	100	31	12	14
4.	31*	60900358	91888	"BIGDB	24	12	1	0	100	31	12	14
5.	29*	0	91839	"BIGDB	24	48	3	0	100	31	12	12









HR 6/15/94.

UNKNOWN #,19

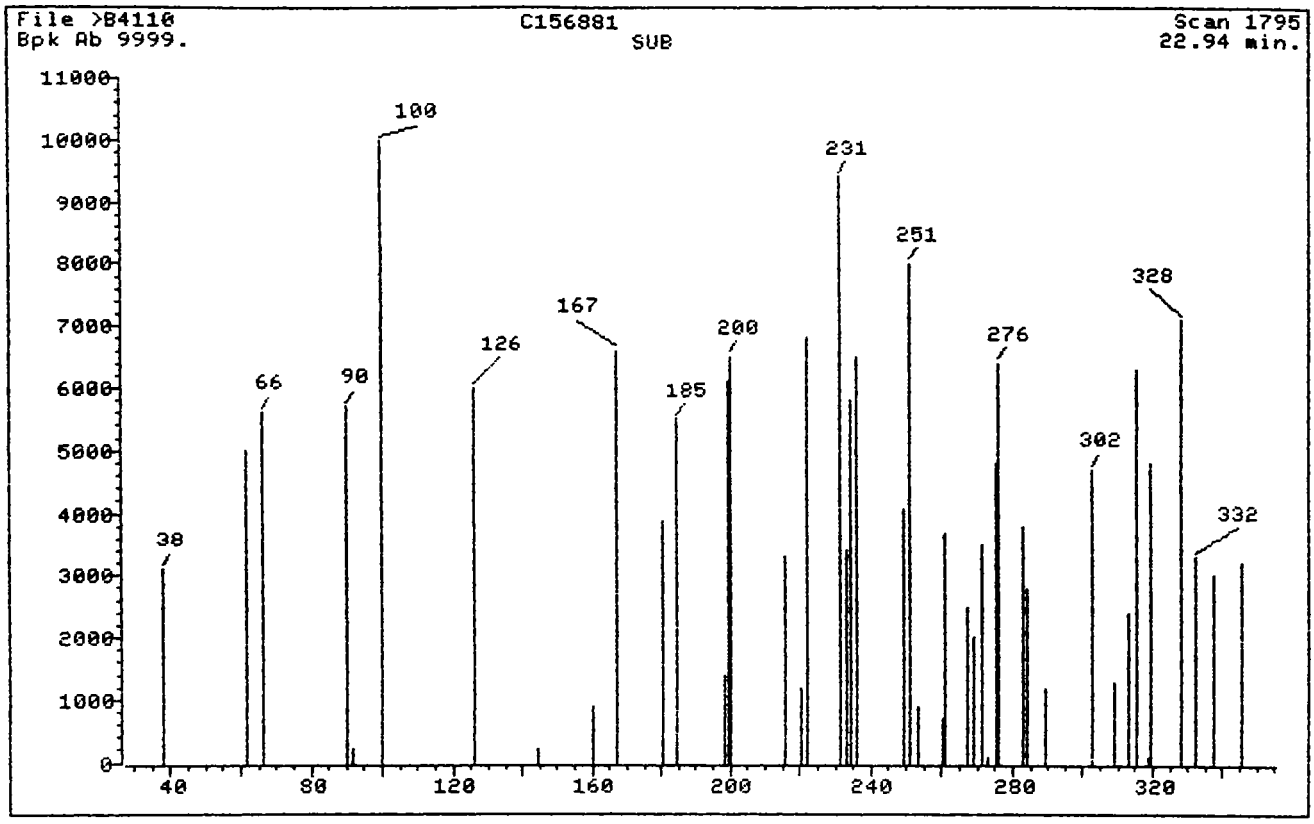
RT = 21.25 AREA = 517691.0 RESPONSE FACTOR IS 29.00

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1.	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3
2.	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3
3.	Hexanamide	115	C6H13NO
4.	Butanamide, 3-methyl-	101	C5H11NO
5.	3-Hexanol	102	C6H14O

Sample file: >B4110 Spectrum #: 1652
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	13588288	7209	"BIGDB	45	43	2	0	69	12	30	15
2.	37	13429077	7151	"BIGDB	40	44	2	0	96	28	14	14
3.	37*	628024	6953	"BIGDB	33	48	3	0	100	28	14	14
4.	37*	541468	6951	"BIGDB	32	50	3	0	100	30	14	14
5.	36*	623370	6882	"BIGDB	33	58	3	0	100	28	14	13



UNKNOWN #,20

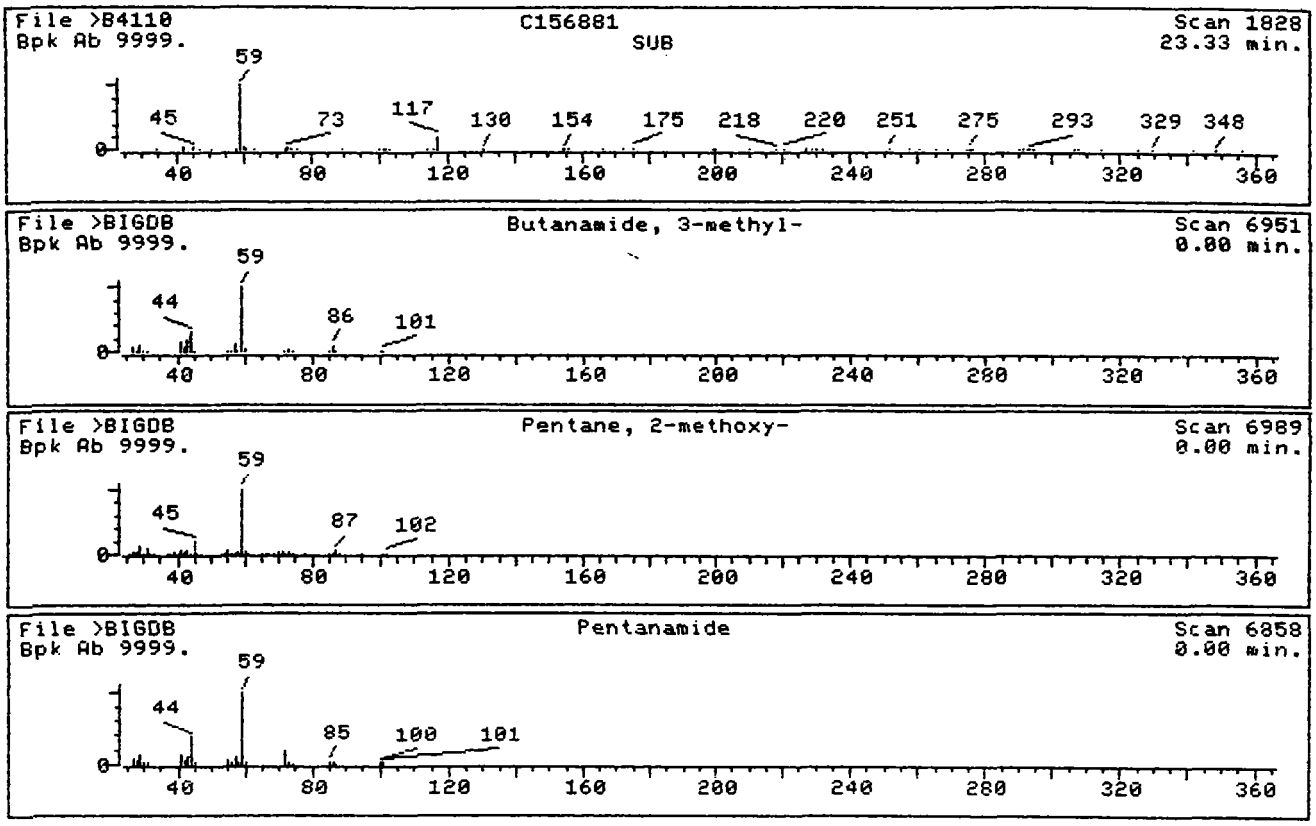
RT = 22.94 AREA = 53297.00 RESPONSE FACTOR IS 5.50

BOL HO 6/15/94

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

Sample file: >B4110 Spectrum #: 1795

No data base entries were retrieved.



fio 6/15/94

UNKNOWN #,21

RT = 23.33 AREA = 326914.0 RESPONSE FACTOR IS 34.00

DATA FILE: >B4110::D7 DATE/TIME: 5/26/94 0:33 MASS SPEC # 1

1. Butanamide, 3-methyl- 101 C5H11NO
2. Pentane, 2-methoxy- 102 C6H14O
3. Pentanamide 101 C5H11NO

Sample file: >B4110 Spectrum #: 1828
Search speed: 1 Tilting option: N No. of ion ranges searched: 38

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	541468	6951	"BIGDB	27	55	3	0	100	33	12	13
2.	30*	6795886	6989	"BIGDB	22	58	2	0	100	33	12	13
3.	29*	626971	6858	"BIGDB	22	60	3	0	100	33	12	12

HQ 5/31/94

QUANT REPORT

rator ID: HAIYAN
utput File: ^B4112::D5
Data File: >B4112::D7
Name: C156816 1:5
Misc:

Quant Rev: 7

Quant Time: 940526 15:59
Injected at: 940526 13:44
Dilution Factor: 1.00000
Instrument ID: MSD102
BTL# 2

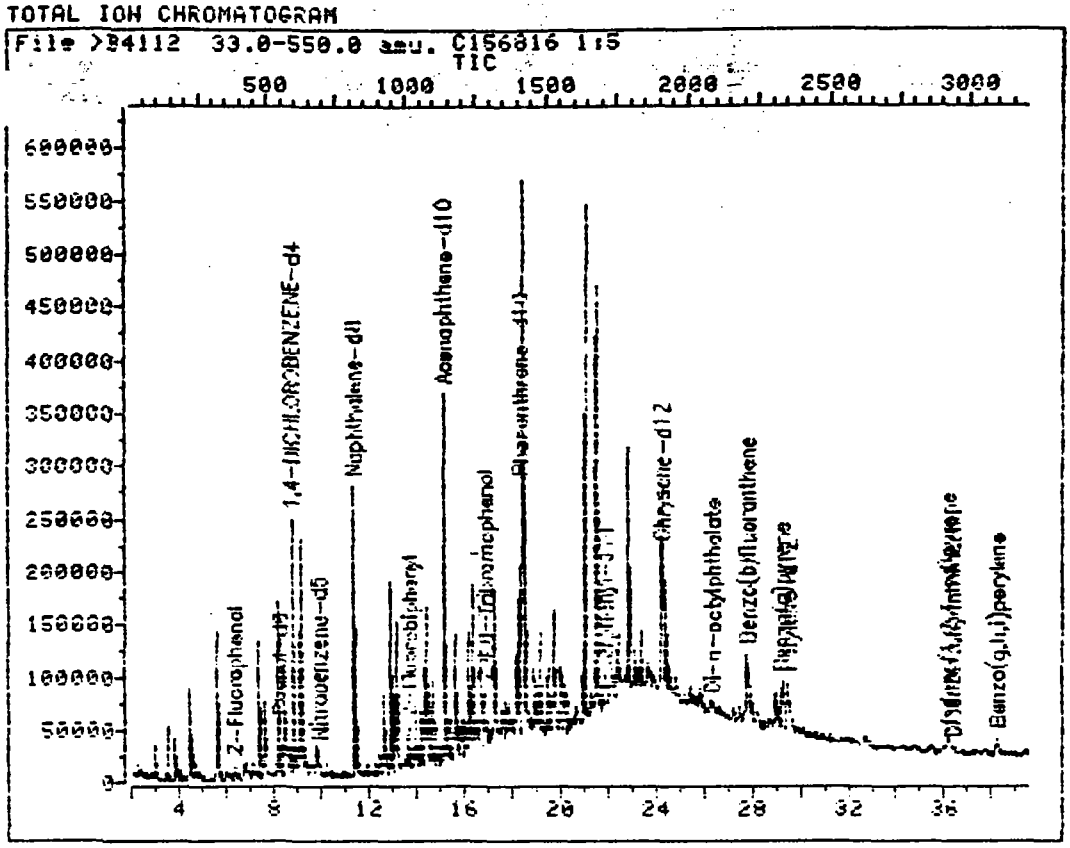
Ok

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57
Last Qcal Time: 940526 11:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	8.76	152.0	63906	40.00	UG/L	95
4)	2-Fluorophenol	6.35	112.0	10884	5.86	UG/L	78
10)	Phenol-d6	8.25	99.0	18687	7.74	UG/L	84
11)	Benzyl alcohol	9.13	108.0	83672	62.14	UG/L	100
18)	*Naphthalene-d8	11.38	136.0	258083	40.00	UG/L	97
22)	Nitrobenzene-d5	9.91	82.0	8819	3.69	UG/L	95
24)	Benzoic acid	11.12	122.0	2051	2.55	UG/L BDL	81
28)	Naphthalene	11.43	128.0	38457	7.21	UG/L	100
29)	4-Chloraniline	11.43	127.0	5508	2.05	UG/L BDL	10
32)	2-Methylnaphthalene	12.92	142.0	101691	25.41	UG/L	74
33)	*Acenaphthene-d10	15.15	164.0	156791	40.00	UG/L	100
35)	2-Fluorobiphenyl	13.71	172.0	25803	5.92	UG/L	94
36)	Acenaphthene	15.22	153.0	73761	17.43	UG/L	93
49)	Dibenzofuran	15.60	168.0	79831	10.74	UG/L	91
54)	Fluorene	16.34	166.0	94907	21.99	UG/L	100
56)	2,4,6-Tribromophenol	16.90	329.8	8739	5.50	UG/L	100
57)	*Phenanthrene-d10	18.37	188.0	242038	40.00	UG/L	100
59)	N-Nitrosodiphenylamine	16.62	169.0	7341	1.69	UG/L BDL	100
67)	Phenanthrene	18.43	178.0	571326	118.15	UG/L	90
69)	Carbazole	18.93	167.0	65234	14.27	UG/L	91
70)	Anthracene	18.53	178.0	153612	30.86	UG/L	96
73)	Di-n-butylphthalate	19.69	149.0	8540	1.36	UG/L BDL	85
74)	Fluoranthene	21.02	202.0	596368	100.77	UG/L	100
75)	*Chrysene-d12	24.23	240.0	110922	40.00	UG/L	100
77)	Pyrene	21.50	202.0	457408	111.68	UG/L	98
89)	Benzo(a)anthracene	24.21	228.0	134619 ~~94369~~	53.56 ~~37.55~~	UG/L	91
90)	Chrysene	24.29	228.0	(44762 ~~84333~~	58.83 ~~34.27~~	UG/L	100
91)	bis(2-Ethylhexyl)phthalate	24.29	149.0	59651	32.73	UG/L	93
93)	Terphenyl-d14	21.84	244.0	16826	5.03	UG/L	100
94)	*Perylene-d12	29.49	264.0	104402	40.00	UG/L	100
95)	Di-n-octylphthalate	26.35	149.0	11992	3.40	UG/L BDL	100
96)	Benzo(b)fluoranthene	27.77	252.0	171294	65.18	UG/L	95
98)	Benzo(a)pyrene	29.22	252.0	105681	43.98	UG/L	93
99)	Indeno(1,2,3-cd)pyrene	36.15	276.0	61931	33.59	UG/L	100
100)	Dibenzo(a,h)anthracene	36.35	278.0	10426 ~~5523~~	6.09 ~~3.22~~	UG/L	51
101)	Benzo(g,h,i)perylene	38.21	276.0	67044	34.76	UG/L	100

Compound is ISTD

TOTAL ION CHROMATOGRAM

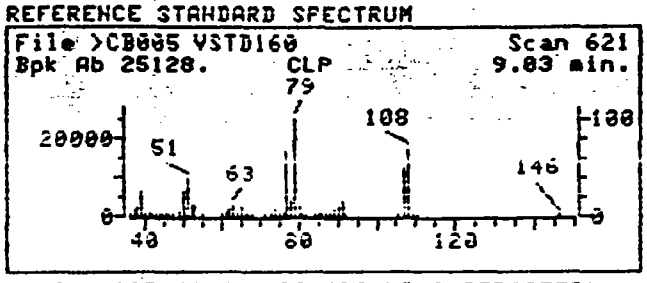


Data File: >B4112::D7 Quant Output File: ^B4112::D5
Name: C156816 1:5 Instrument ID: MSD102
Misc: BTL# 2

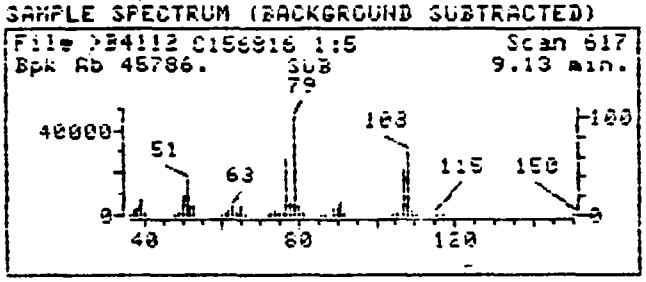
Id File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qual Time: 940526 11:23

Operator ID: HAIYAN
Quant Time : 940526 15:59
Injected at: 940526 13:44

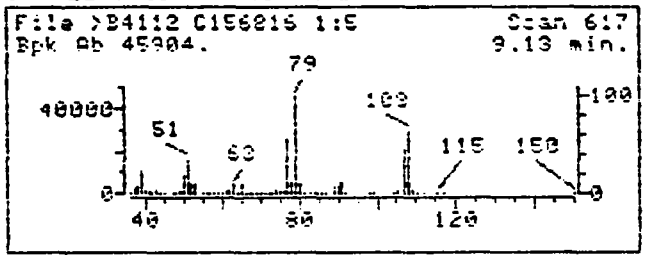
REFERENCE STANDARD SPECTRUM

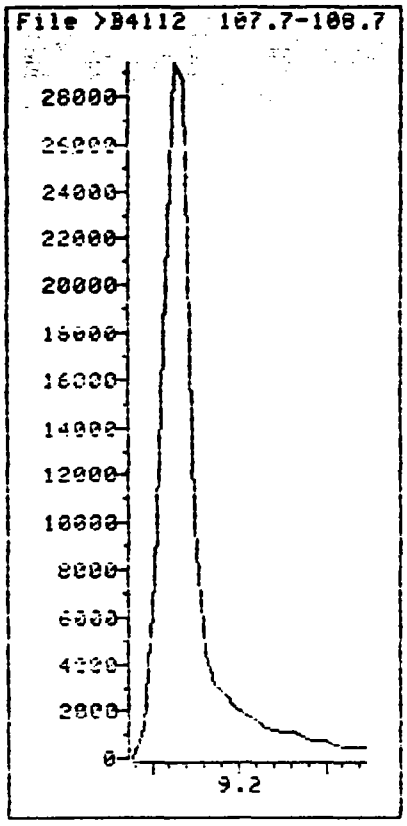


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





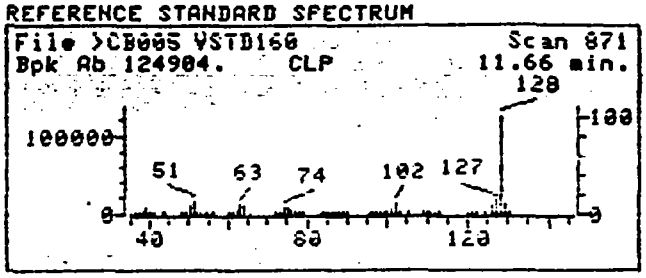
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

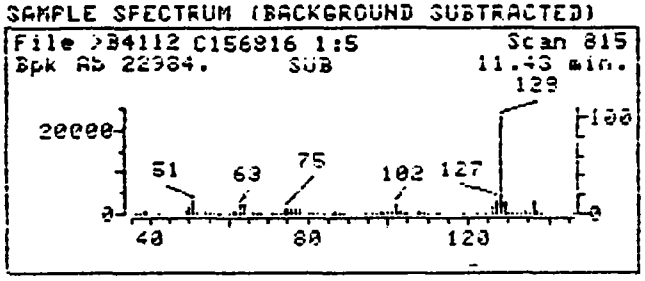
Compound No : 11
Compound Name : Benzyl alcohol
Scan Number : 617
Retention Time: 9.13 min.
Quant Ion : 108.0
Area : 83672
Concentration : 62.14 UG/L
q-value : 100

LR 5/31/94

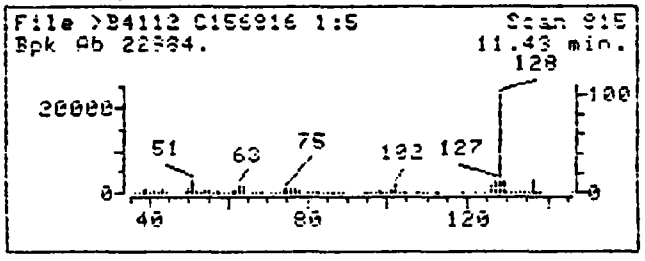
REFERENCE STANDARD SPECTRUM

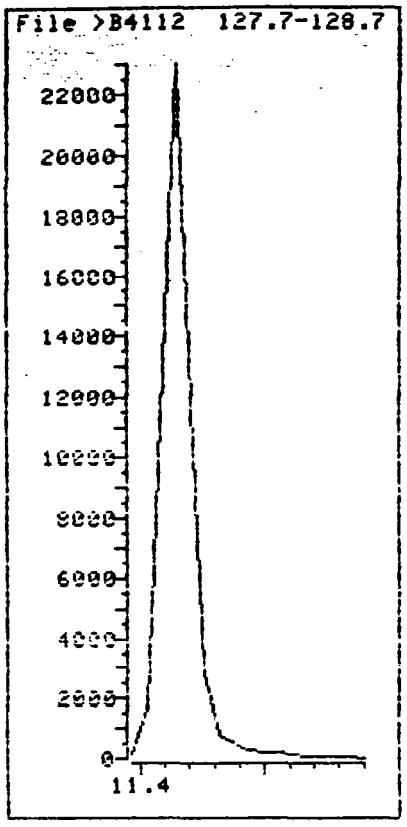


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





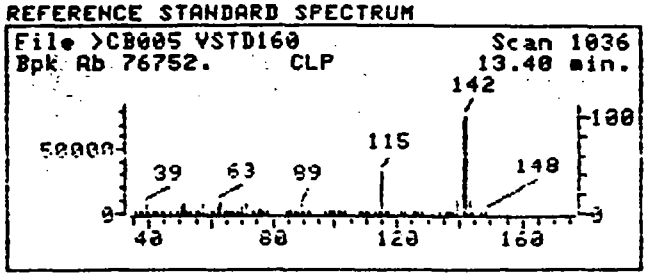
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

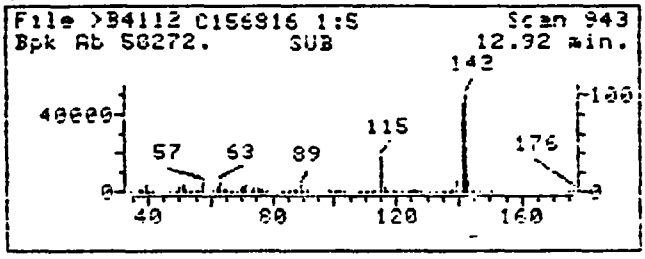
Compound No : 28
Compound Name : Naphthalene
Scan Number : 815
Retention Time: 11.43 min.
Quant Ion : 128.0
Area : 38457
Concentration : 7.21 UG/L
q-value : 100

HQ 5/31/94

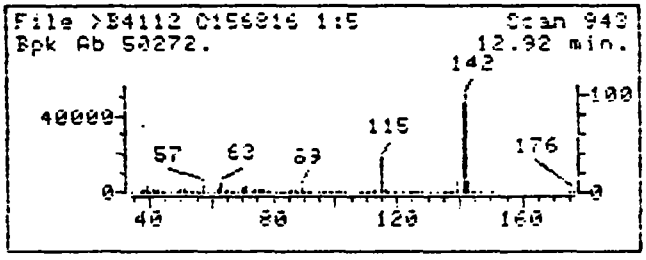
REFERENCE STANDARD SPECTRUM

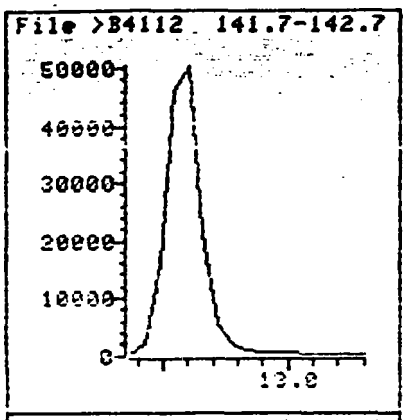


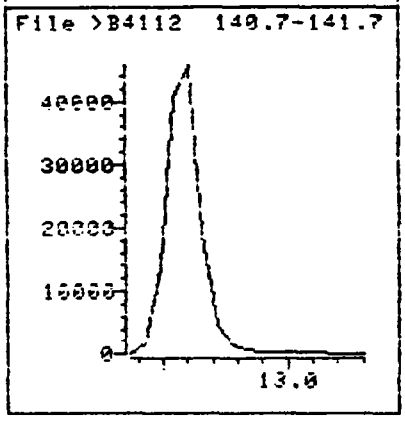
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







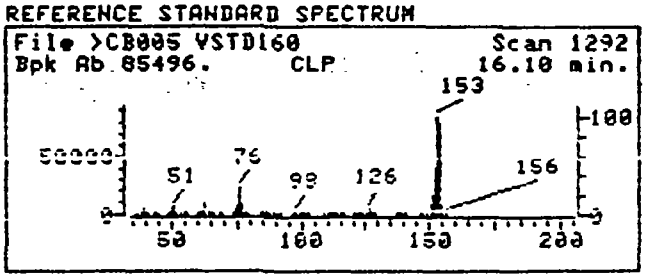
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

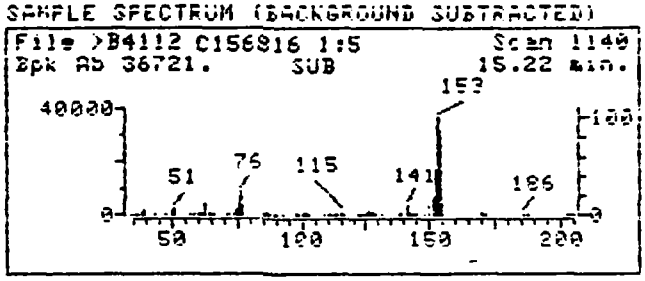
Compound No : 32
Compound Name : 2-Methylnaphthalene
Scan Number : 943
Retention Time: 12.92 min.
Quant Ion : 142.0
Area : 101691
Concentration : 25.41 UG/L
q-value : 74

HR 5/31/94

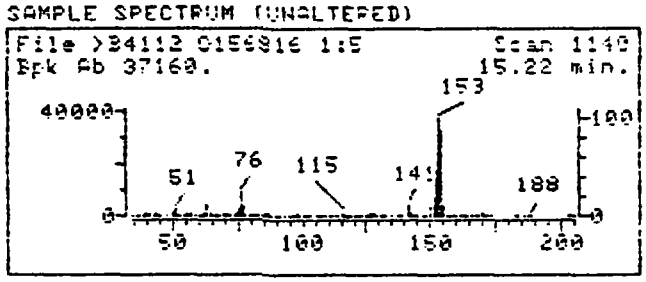
REFERENCE STANDARD SPECTRUM

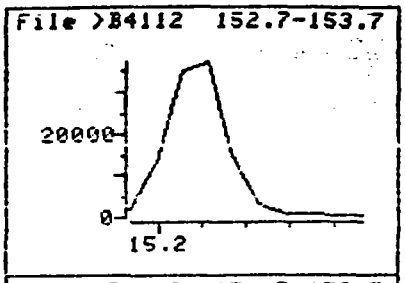


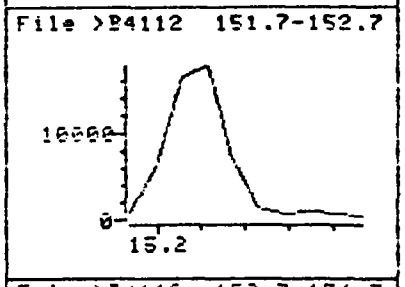
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

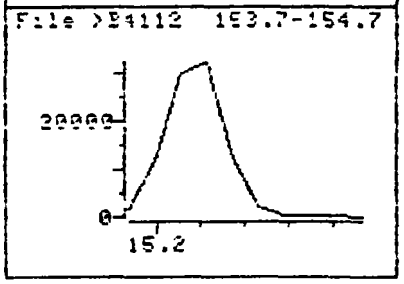


SAMPLE SPECTRUM (UNALTERED)









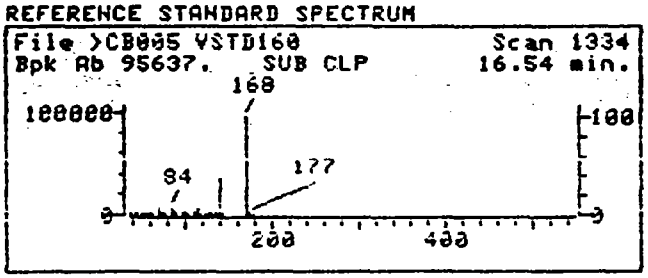
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

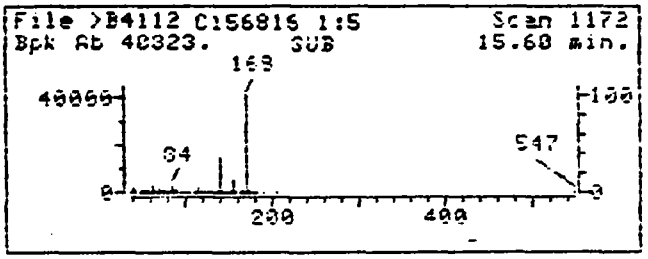
Compound No : 46
Compound Name : Acenaphthene
Scan Number : 1140
Retention Time: 15.22 min.
Quant Ion : 153.0
Area : 73761
Concentration : 17.43 UG/L
q-value : 93

HQ 5/31/94

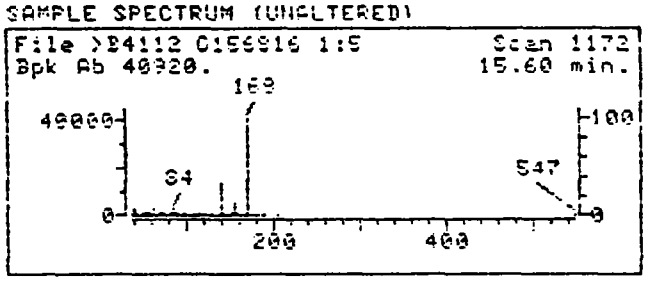
REFERENCE STANDARD SPECTRUM

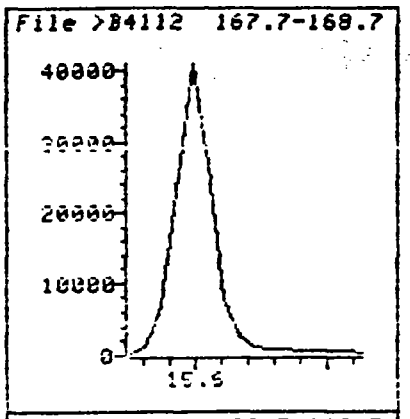


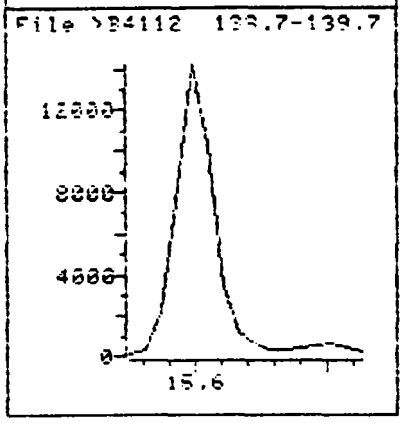
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNFILTERED)







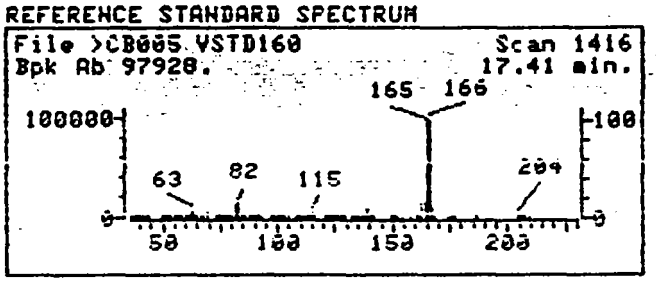
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

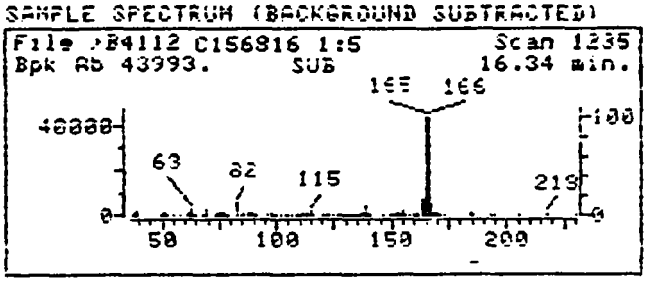
Compound No : 49
Compound Name : Dibenzofuran
Scan Number : 1172
Retention Time: 15.60 min.
Quant Ion : 168.0
Area : 79831
Concentration : 10.74 UG/L
q-value : 91

HQ 5/31/94

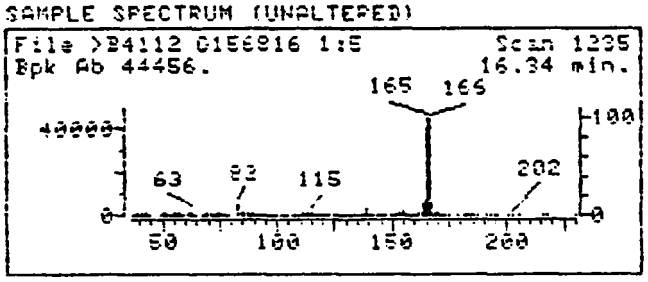
REFERENCE STANDARD SPECTRUM

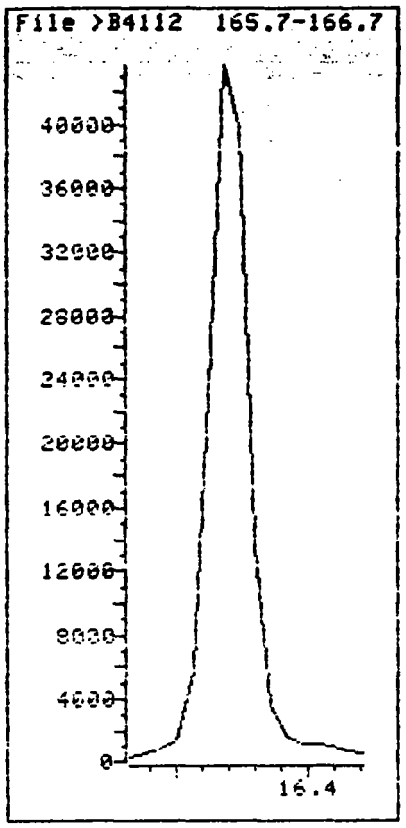


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





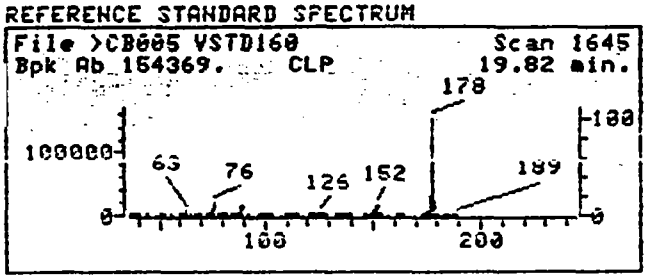
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

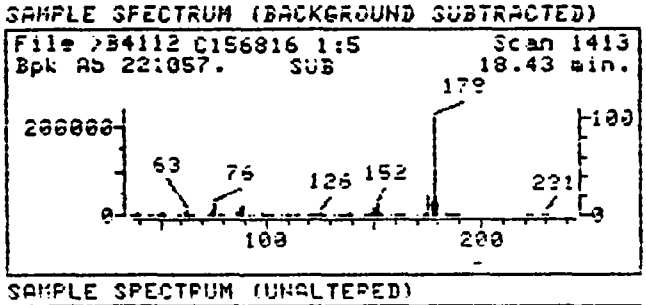
Compound No : 54
Compound Name : Fluorene
Scan Number : 1235
Retention Time: 16.34 min.
Quant Ion : 166.0
Area : 94907
Concentration : 21.99 UG/L
q-value : 100

HQ 5/31/94.

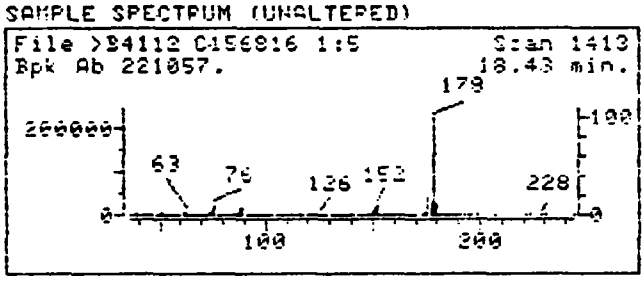
REFERENCE STANDARD SPECTRUM

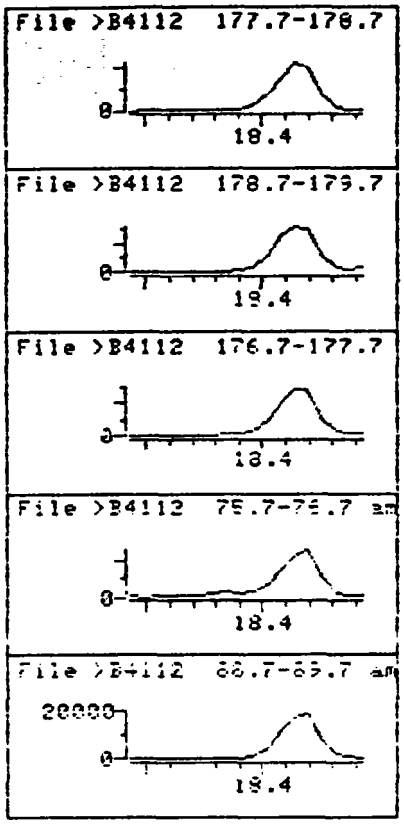


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





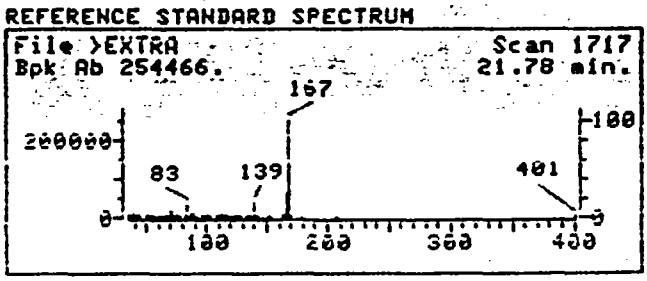
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

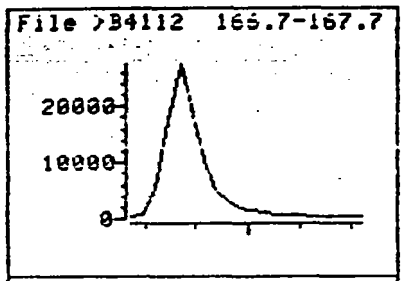
Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSU01::D6
Last Calibration: 940324 08:57

Compound No : 67
Compound Name : Phenanthrene
Scan Number : 1413
Retention Time: 18.43 min.
Quant Ion : 178.0
Area : 571326
Concentration : 118.15 UG/L
q-value : 90

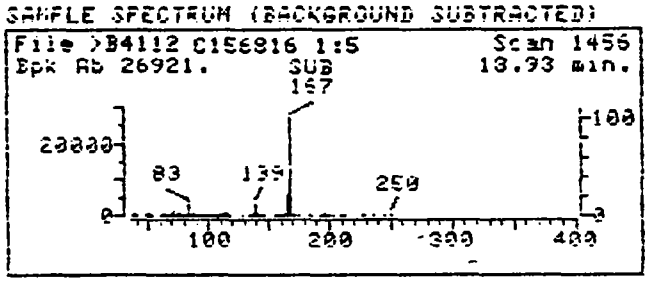
HQ 5/31/94.

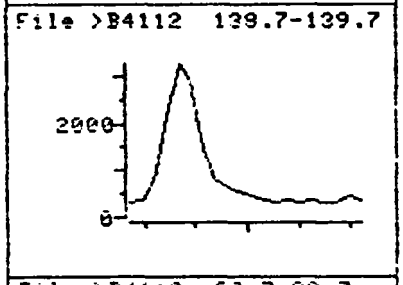
REFERENCE STANDARD SPECTRUM



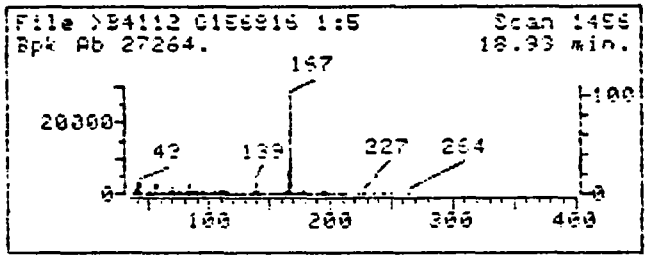


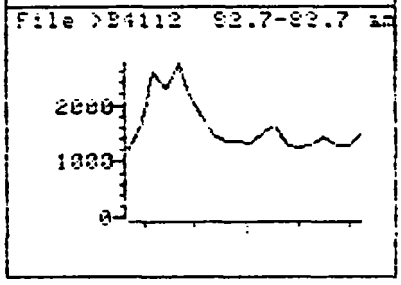
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

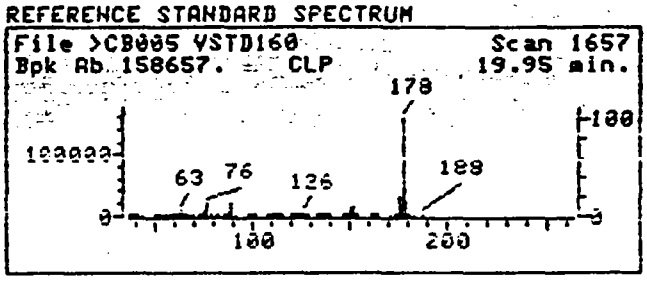
Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSU01::D6
Last Calibration: 940324 08:57

Compound No : 69
Compound Name : Carbazole
Scan Number : 1456
Retention Time: 18.93 min.
Quant Ion : 167.0
Area : 65234
Concentration : 14.27 UG/L
q-value : 91

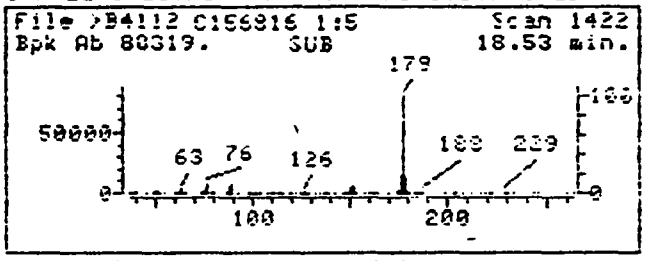
✓

HA 5/31/94.

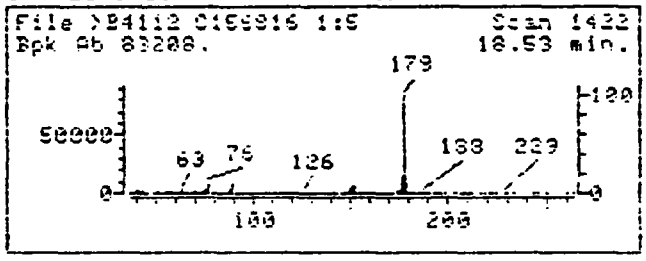
REFERENCE STANDARD SPECTRUM

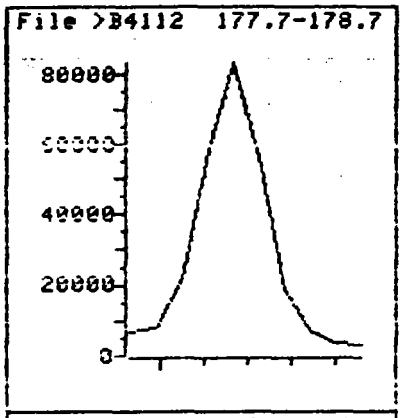


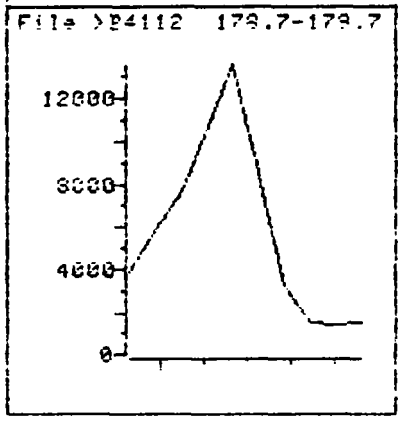
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

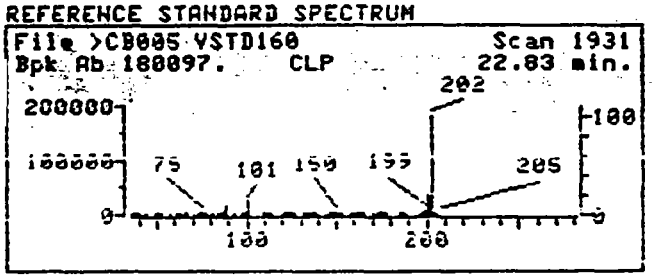
Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSU01::D6
Last Calibration: 940324 08:57

Compound No : 70
Compound Name : Anthracene
Scan Number : 1422
Retention Time: 18.53 min.
Quant Ion : 178.0
Area : 153612
Concentration : 30.86 UG/L
q-value : 96

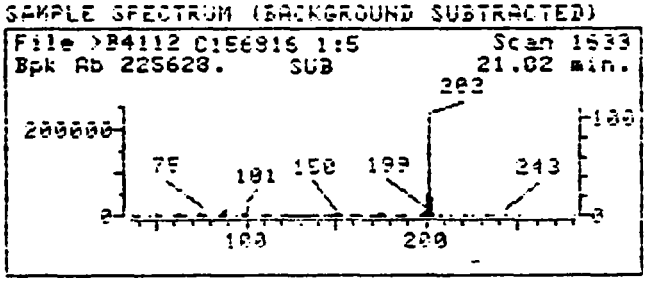
✓

HG 5/31/94

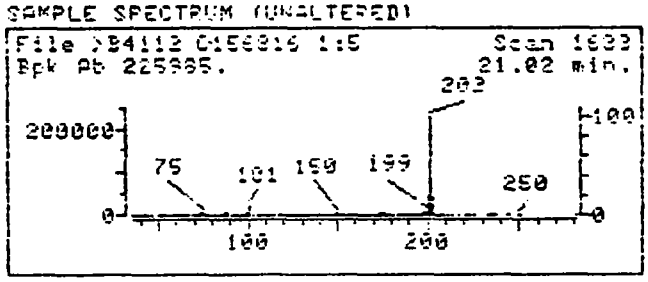
REFERENCE STANDARD SPECTRUM

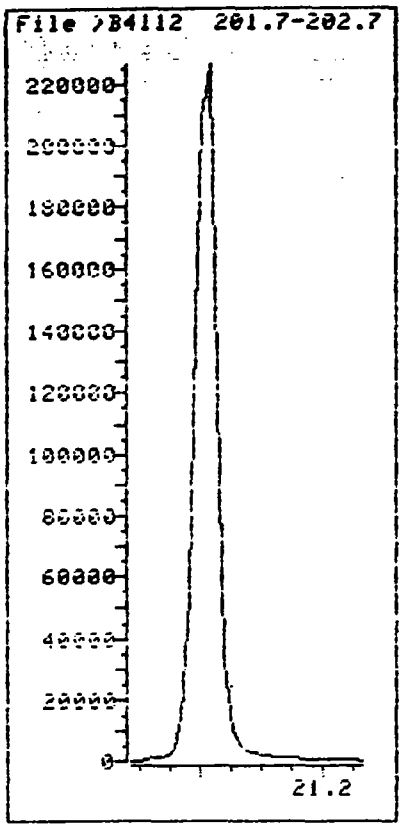


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

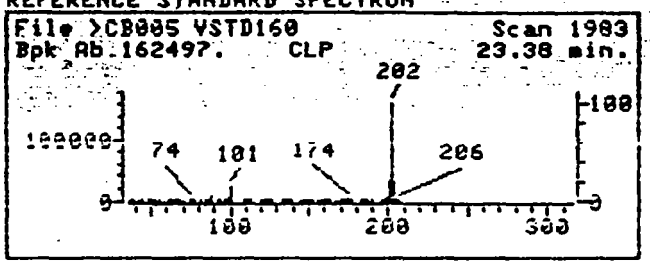
Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSU01::D6
Last Calibration: 940324 08:57

Compound No : 74
Compound Name : Fluoranthene
Scan Number : 1633
Retention Time: 21.02 min.
Quant Ion : 202.0
Area : 596368
Concentration : 100.77 UG/L
q-value : 100

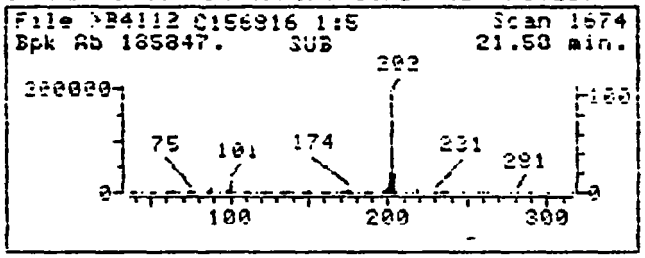
✓

HO 5/31/94

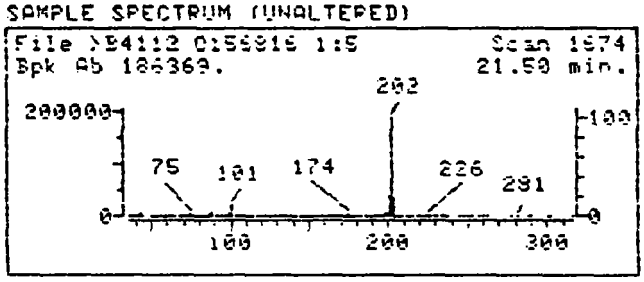
REFERENCE STANDARD SPECTRUM

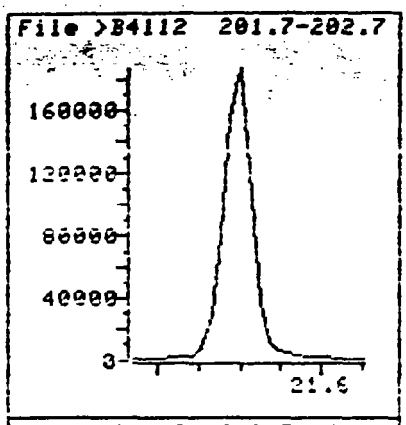


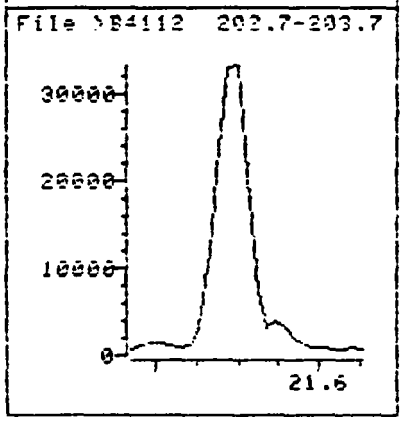
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







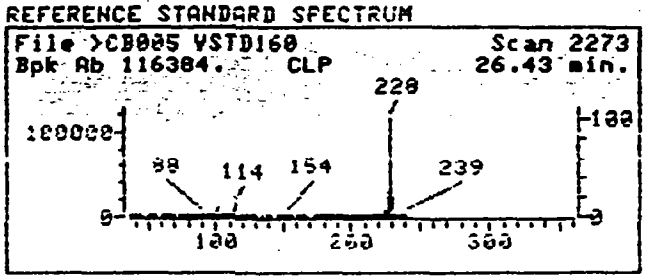
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSU01::D6
Last Calibration: 940324 09:57

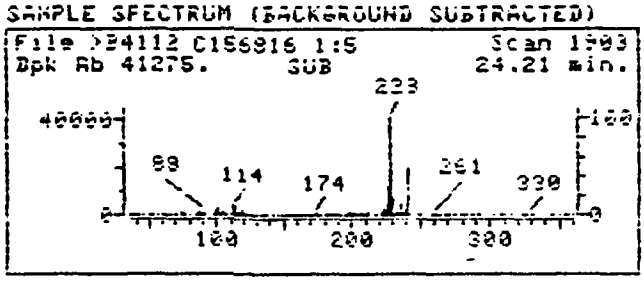
Compound No : 77
Compound Name : Pyrene
Scan Number : 1674
Retention Time: 21.50 min.
Quant Ion : 202.0
Area : 457408
Concentration : 111.68 UG/L
q-value : 98

HQ 5/31/94

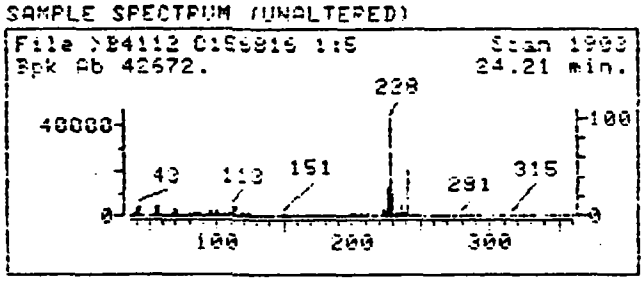
REFERENCE STANDARD SPECTRUM

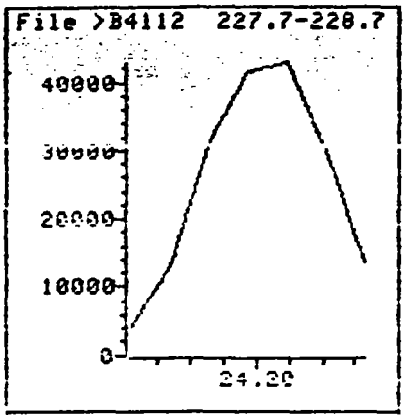


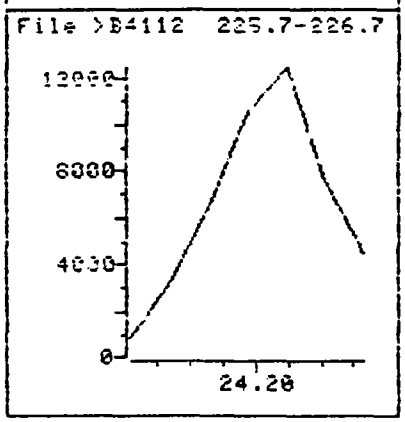
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







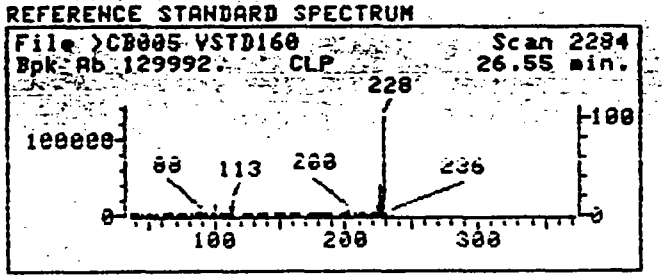
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 09:57

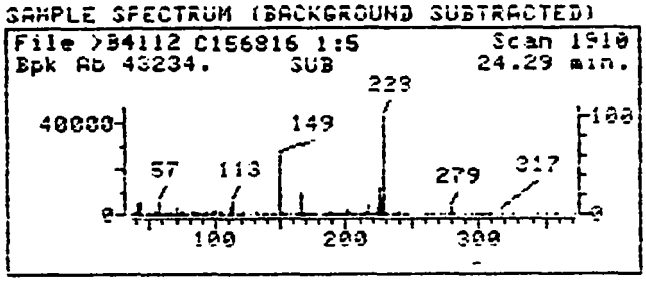
Compound No : 89
Compound Name : Benzo(a)anthracene
Scan Number : 1993
Retention Time: 24.21 min.
Quant Ion : 228.0
Area : ~~94769~~ 134619
Concentration : ~~37.55 UG/L~~
q-value : 91 53.56

HG 5/31/94.

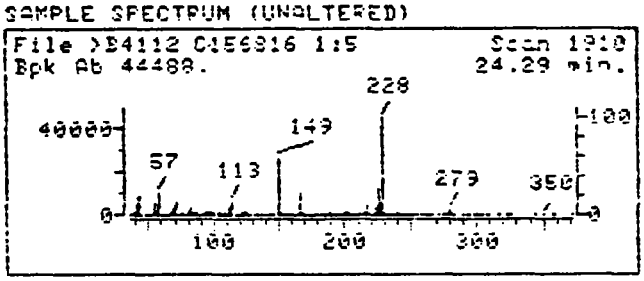
REFERENCE STANDARD SPECTRUM

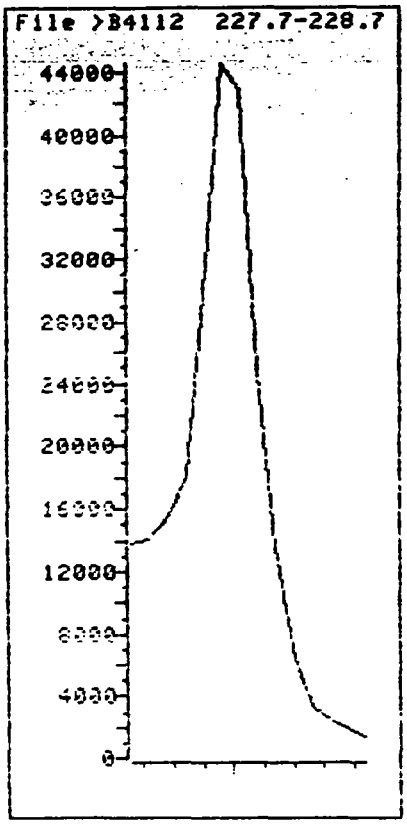


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





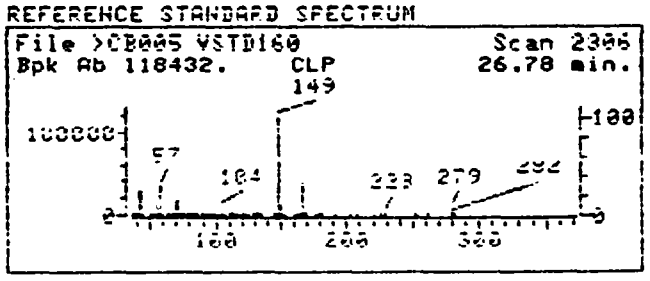
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

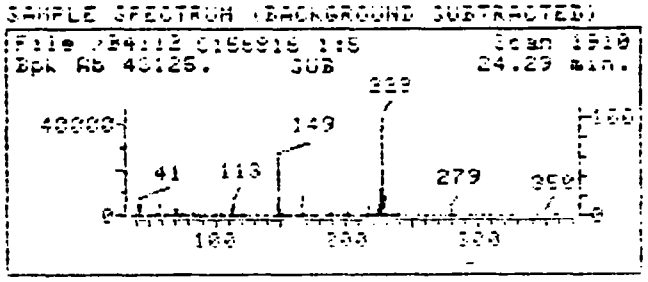
Compound No : 90
Compound Name : Chrysene
Scan Number : 1910
Retention Time: 24.29 min.
Quant Ion : 228.0
Area : ~~84333~~ 104762
Concentration : ~~34.27~~ UG/L 53.33
q-value : 100

HQ 5/31/94.

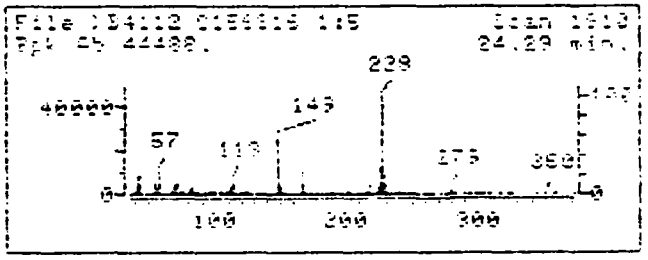
REFERENCE STANDARD SPECTRUM

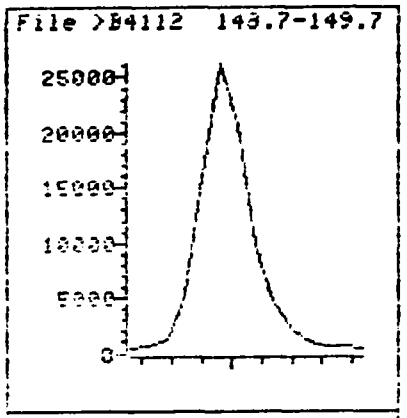


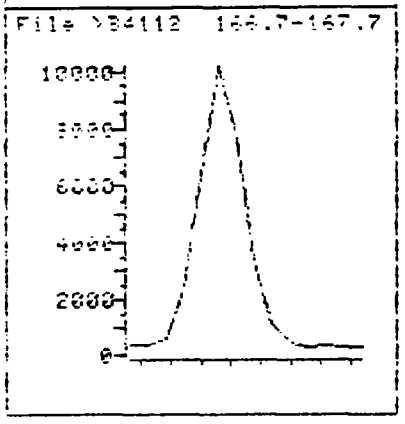
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNSUBTRACTED)







Data File: >B4112::D9
Name: C156816 1:5
Misc:
Quant Time: 940526 15:09
Injected at: 940526 13:44
Last Cal Time: 940526 11:03

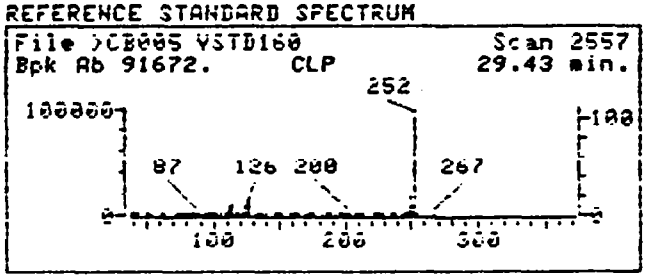
Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDBN01::D6
Last Calibration: 940324 09:57

Compound No : 91
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 1910
Retention Time: 24.29 min.
Quant Ion : 149.0
Area : 59651
Concentration : 32.73 UG/L
q-value : 93

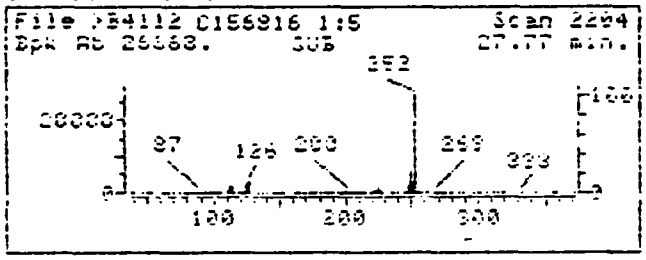
HQ 5/31/94

001307

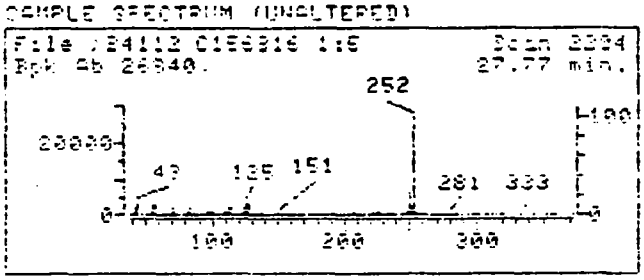
REFERENCE STANDARD SPECTRUM

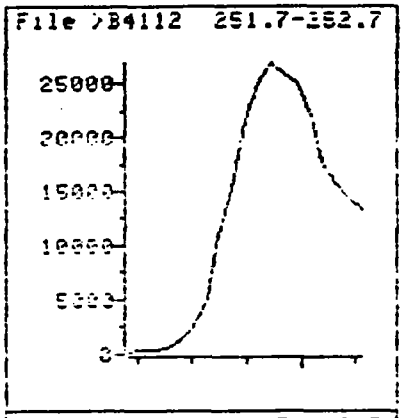


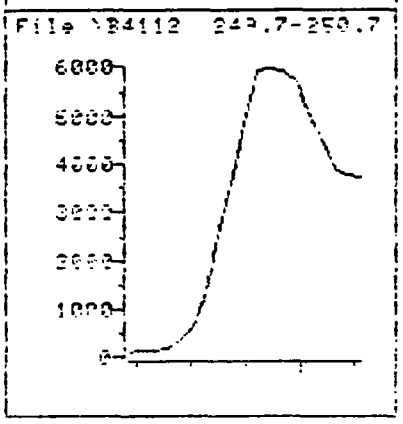
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







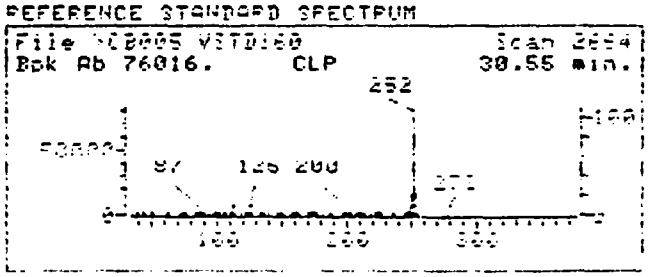
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 17:44
Last Qual Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSW01::D6
Last Calibration: 940324 09:57

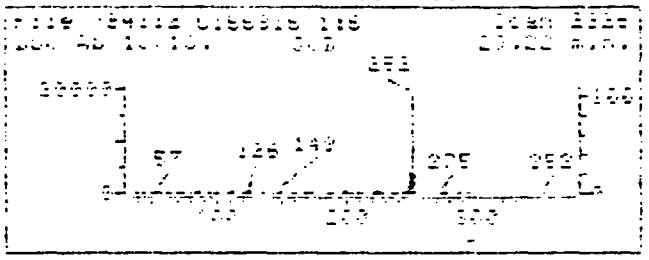
Compound No : 96
Compound Name : Benzo(b)fluoranthene
Scan Number : 2204
Retention Time: 27.77 min.
Quant Ion : 252.0
Area : ~~171294~~
Concentration : ~~45.18~~ UG/L
q-value : 95

fio 5/31/94.

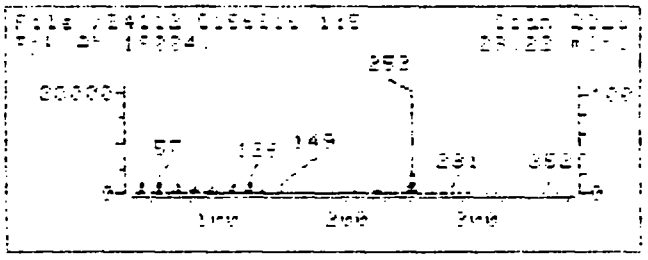
REFERENCE STANDARD SPECTRUM

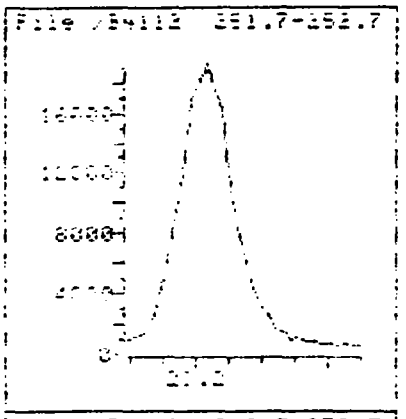


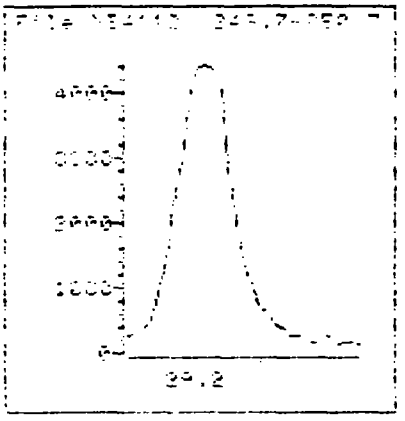
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: [illegible]
Name: [illegible]
Misc:
Quant Time: [illegible]
Injected at: [illegible]
Last Cool Time: [illegible]

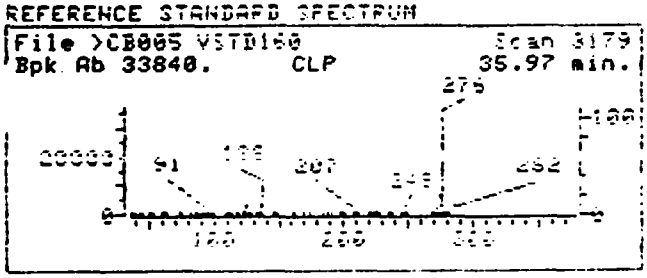
Quant Output File: [illegible]
Instrument ID: [illegible]
BTL# 2
Quant ID File: [illegible]
Last Calibration: [illegible]

Compound No : [illegible]
Compound Name : [illegible]
Scan Number : [illegible]
Retention Time: 29.22 min.
Quant Ion : 252.0
Area : 105691
Concentration : 43.99 UG/L
q-value : 93

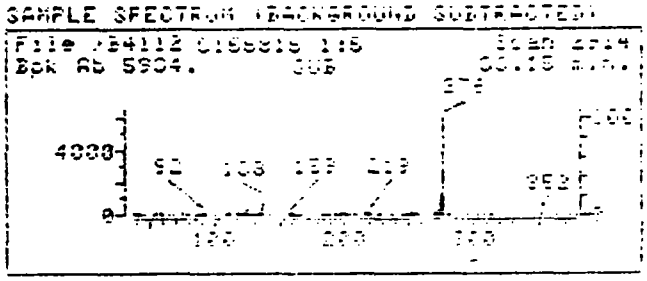
HQ 5/31/94.

001309

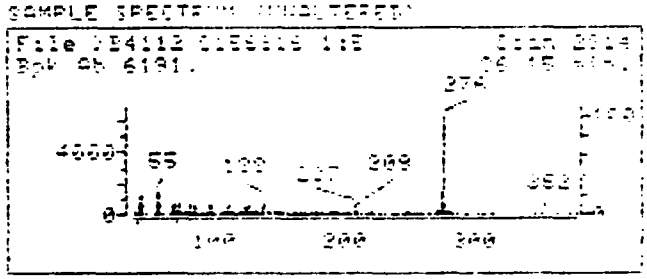
REFERENCE STANDARD SPECTRUM

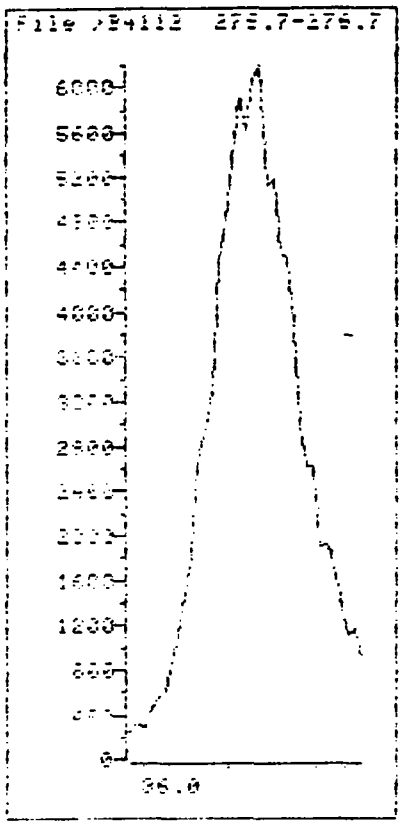


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: [illegible]
Name: [illegible]
Misc:
Quant [illegible]
Injected at: [illegible]
Last Opnl Time: [illegible]

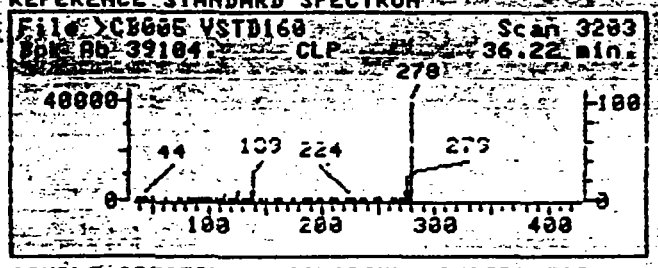
Quant Output File: [illegible]
Instrument ID: [illegible]
RTL# 2
Quant ID File: [illegible]
Last Calibration: 940324 [illegible]

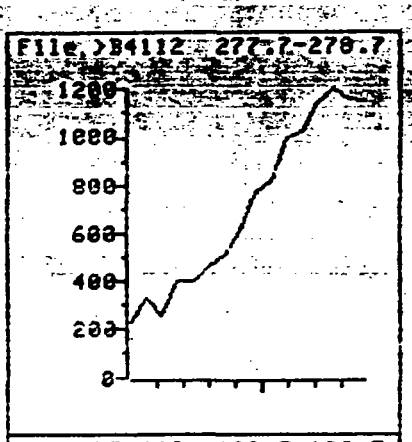
Compound No : [illegible]
Compound Name : [illegible]
Scan Number : 2914
Retention Time: 36.15 min.
Quant Ion : 276.0
Area : 61931
Concentration : 37.59 UG/L
q-value : 100

HC 5/31/94.

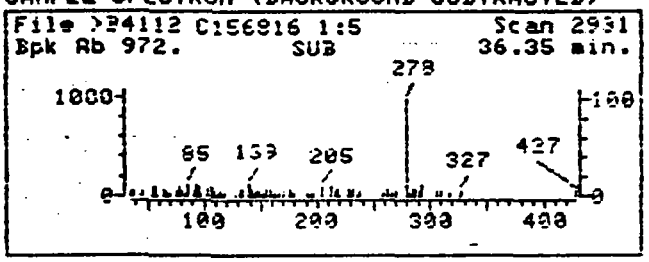
001370

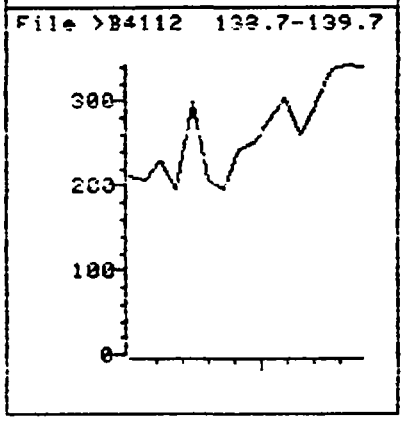
REFERENCE STANDARD SPECTRUM



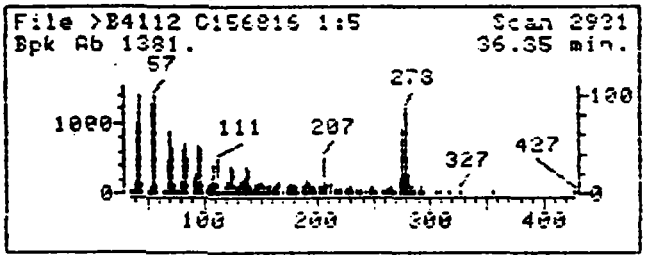


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



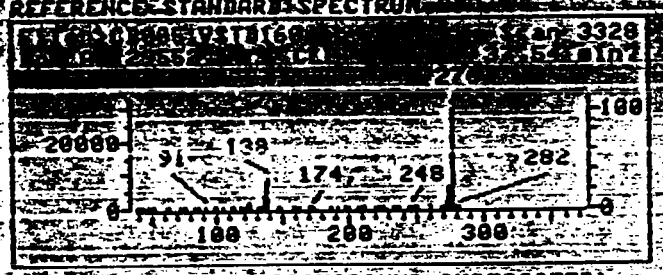
Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qual Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSU01::D6
Last Calibration: 940324 08:57

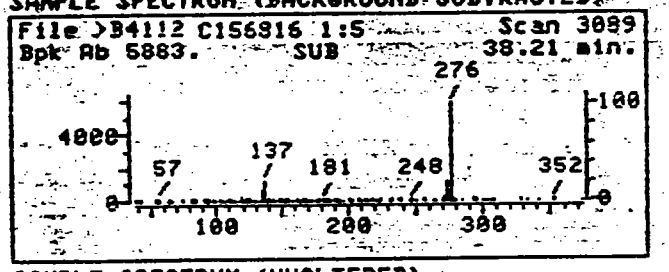
Compound No : 100
Compound Name : Dibenzo(a,h)anthracene
Scan Number : 2931
Retention Time: 36.35 min.
Quant Ion : 278.0
Area : 5523 10426.
Concentration : ~~3.22 UG/L~~
q-value : 51 6.09

HA 5/31/94

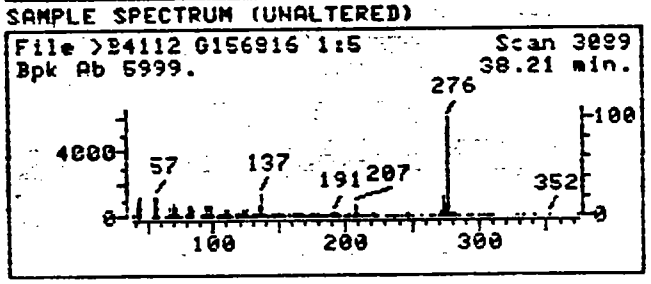
REFERENCE STANDARD SPECTRUM

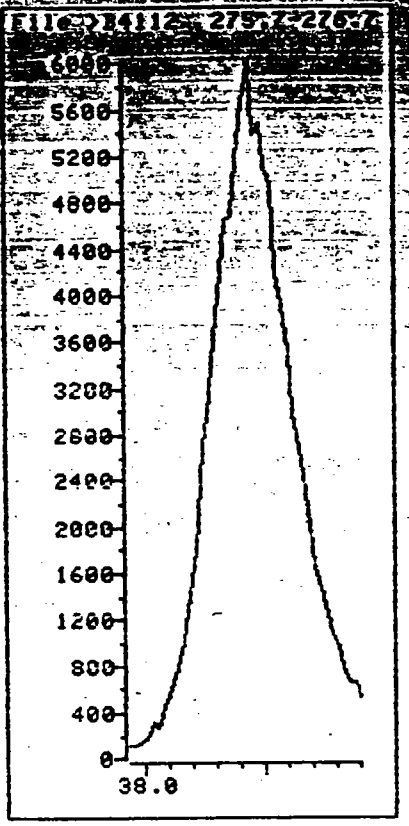


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >B4112::D7
Name: C156816 1:5
Misc:
Quant Time: 940526 15:59
Injected at: 940526 13:44
Last Qcal Time: 940526 11:23

Quant Output File: ^B4112::D5
Instrument ID: MSD102
BTL# 2
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

Compound No : 101
Compound Name : Benzo(g,h,i)perylene
Scan Number : 3089
Retention Time: 38.21 min.
Quant Ion : 276.0
Area : 67044
Concentration : 34.76 UG/L
q-value : 100

HQ 5/31/94

MS data file header from : >B4112::D7

Sample: C156816 1:5 Operator: HAIYAN REG. GRP. 5/26/94 13:44
Misc : BTL# 2
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 2 Equip ID: MSD102
Method file: BNAIM Tuning file: DFTIT No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures : 40. 280. 0. 0. 0.
Chromatographic times, min. : 3.0 14.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 12.0 0.0 0.0 .5 0.0

>B4112 C156816 1:5
33.0! 550.0 CLP TIC
Upslope: .2000 Area Reject: 13451. Max Peaks: 22 Bunch: 1 Valley >100 %
Dnslope: 0.0000 Results File IB4112 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	4.43	209	213	227	87012	256424	225054	19.07	2.676
2	5.57	307	311	325	142516	434534	400763	33.95	4.766
3	7.33	460	463	477	131584	358290	312601	26.48	3.718
4	7.61	483	487	498	70958	296045	237405*	20.11	2.823
5	8.11	522	530	533	164392	476637	424235	35.94	5.045
6	9.14	613	618	631	217154	742321	585643	49.62	6.965
7	12.92	937	943	944	180486	342306	296757	25.14	3.529
8	13.12	957	960	963	134430	337146	262870	22.27	3.126
9	14.28	1054	1059	1066	91277	428049	277844	23.54	3.304
10	14.43	1066	1072	1075	147095	459771	347118	29.41	4.128
11	15.60	1166	1172	1177	119546	510717	346941	29.39	4.126
12	16.34	1232	1235	1239	153004	485038	309932	26.26	3.686
13	17.23	1308	1311	1312	139380	367083	243716	20.65	2.898
14	18.26	1396	1399	1403	112104	452263	211830	17.95	2.519
15	18.36	1404	1407	1408	154005	389061	245091	20.76	2.915
16	18.53	1421	1422	1426	166094	450401	212369	17.99	2.526
17	21.02	1628	1633	1637	478255	1611815	1180357	100.00	14.037
18	21.50	1668	1674	1678	393806	1570031	1033410*	87.55	12.290
19	22.79	1779	1783	1787	222038	973598	437929	37.10	5.208
20	24.21	1899	1903	1904	143566	559265	246537	20.89	2.932
21	27.77	2198	2204	2211	58073	929576	343270	29.08	4.082
22	29.23	2321	2327	2336	39432	819827	227178	19.25	2.702

Sum of corrected areas: 8408850.

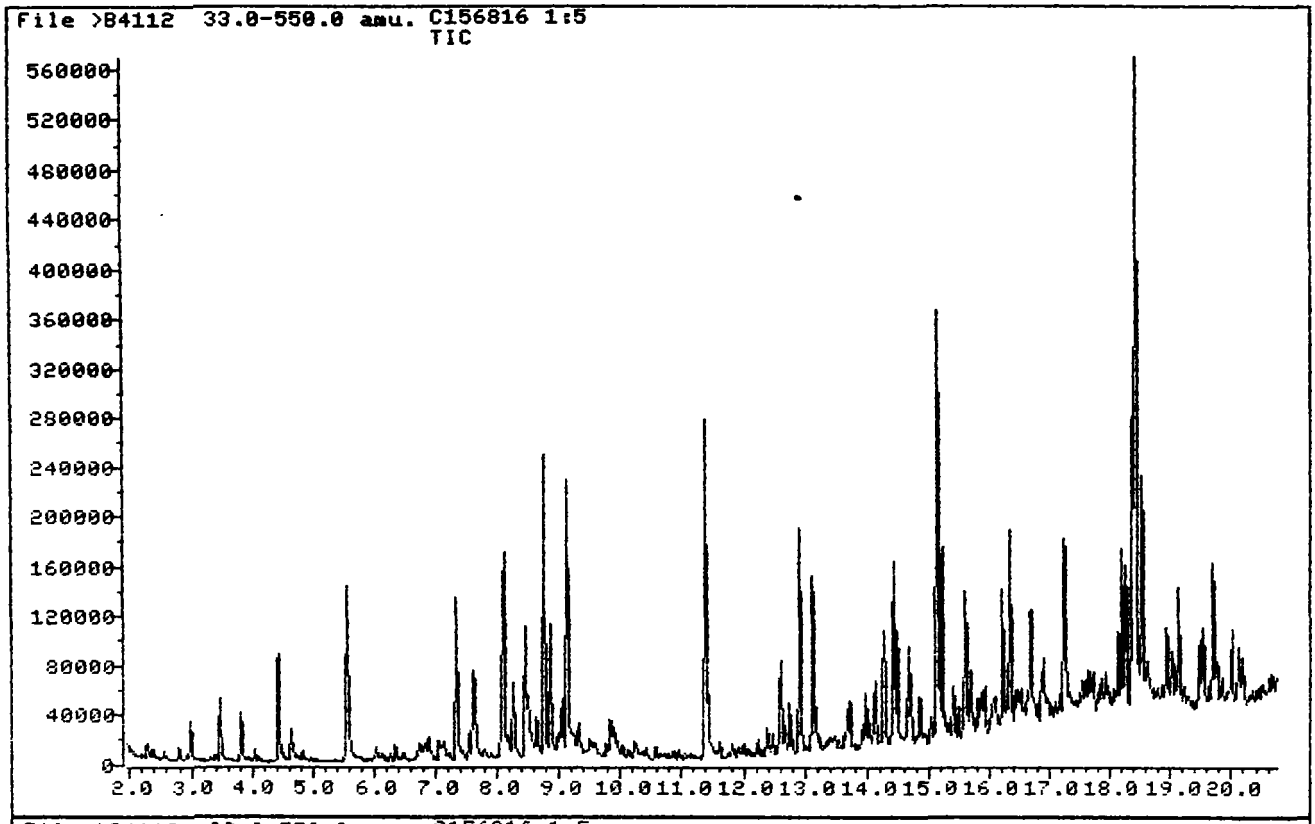
Summary of Unknowns PBM Library Search and Quantitation

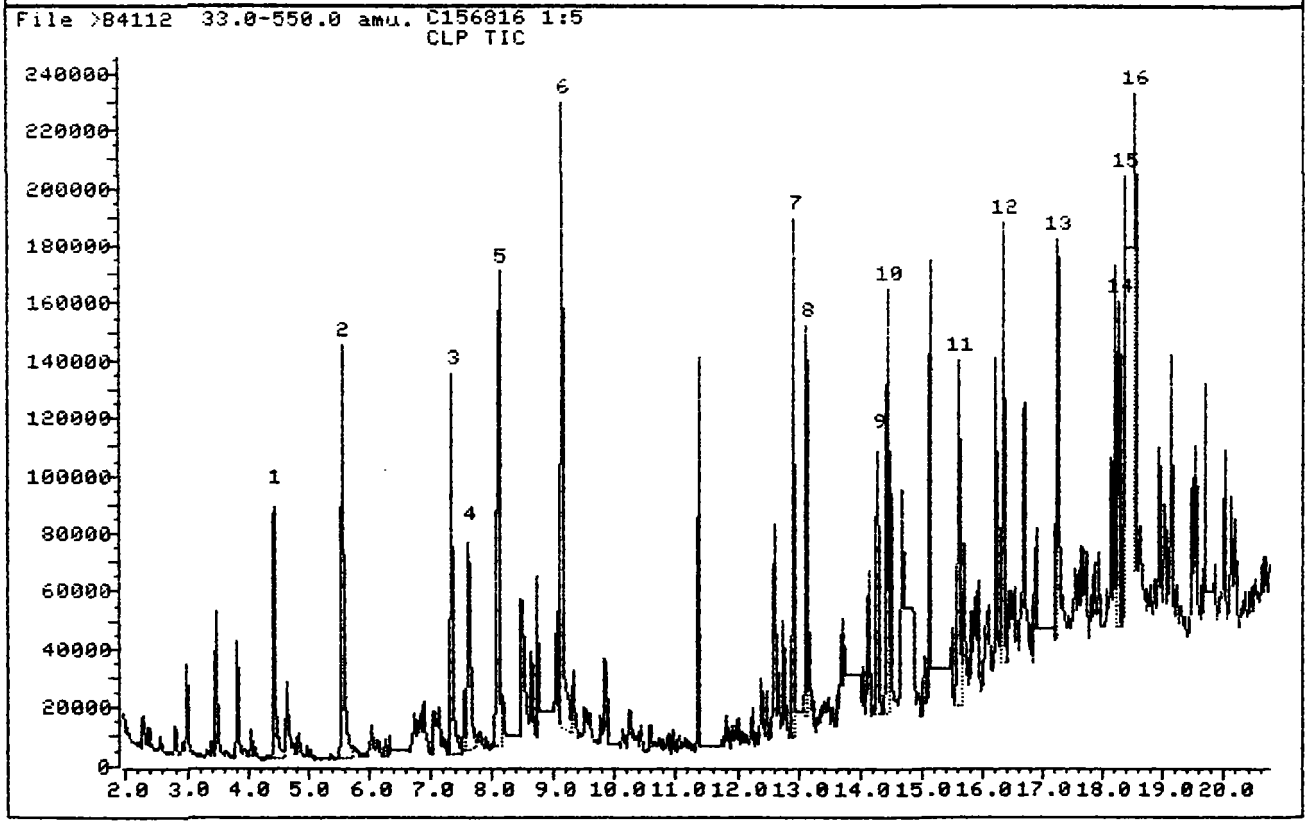
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	458794.	8.80	2.00 - 10.12
2	40.0	587533.	11.43	10.12 - 13.32
3	40.0	268643.	15.20	13.32 - 16.81
4	40.0	1250494.	18.42	16.81 - [illegible]
5	40.0	580352.	24.31	21.36 - 26.97
6	40.0	134511.	29.64	26.97 - 39.52

6/16/94

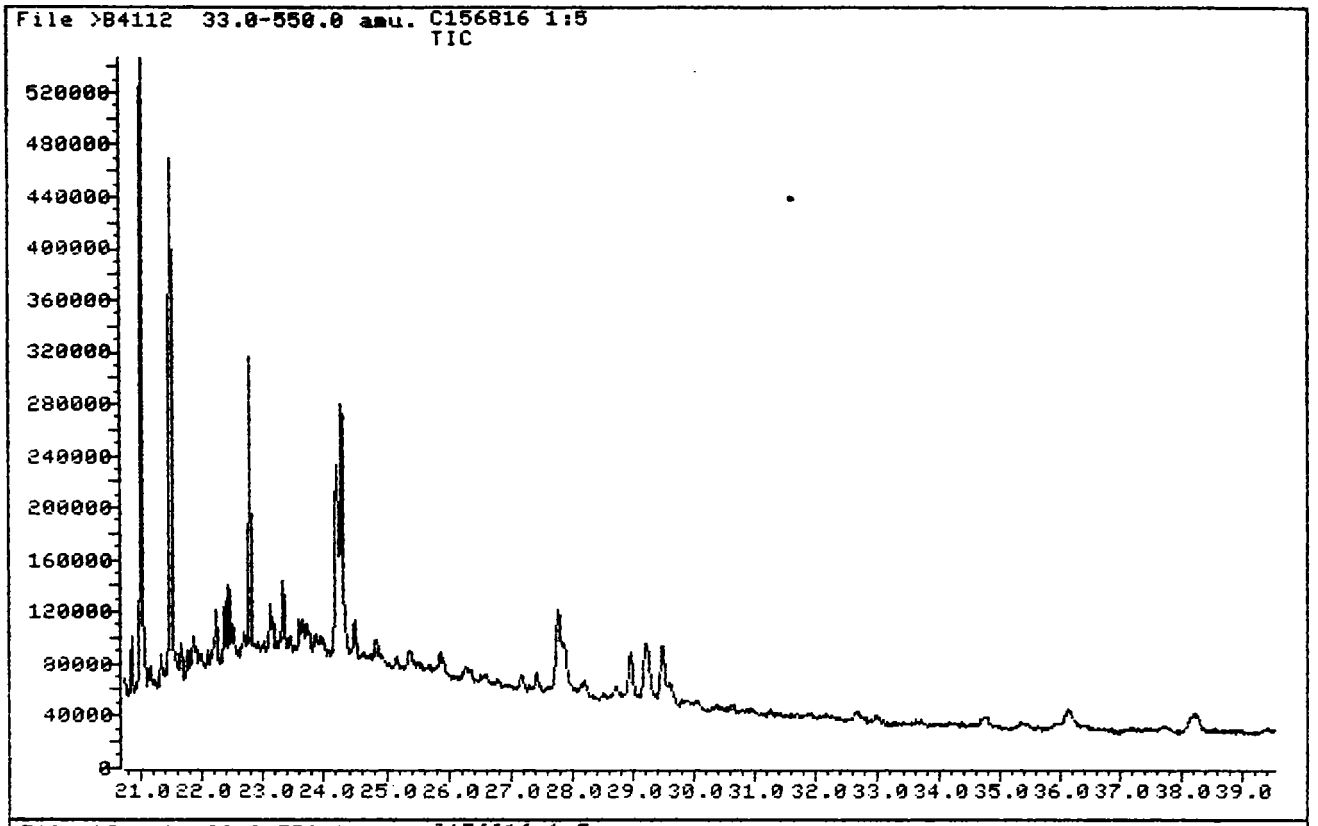
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

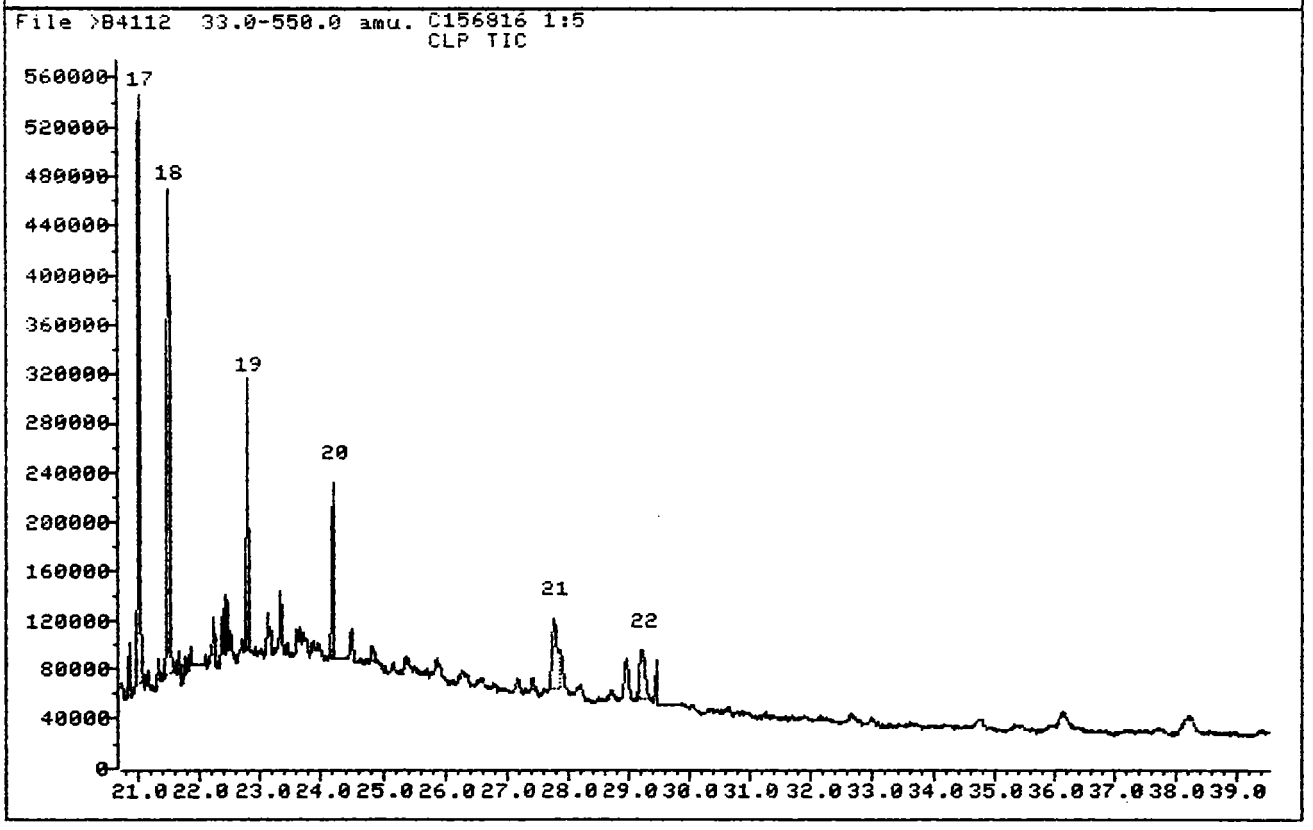
5:58 PM WED., 15 JUNE, 1994

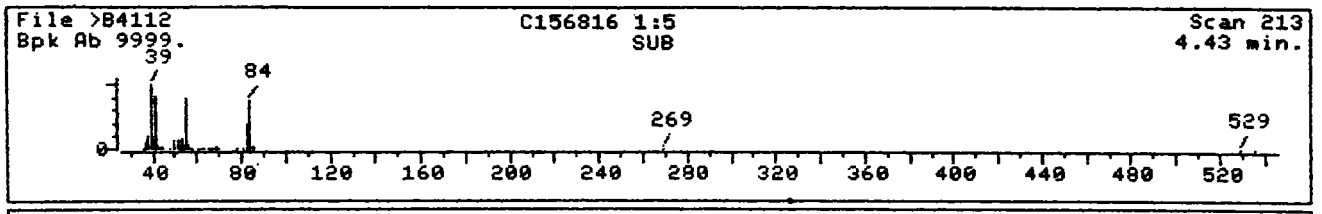

File >B4112 33.0-550.0 amu. C156816 1:5
TIC
560000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0

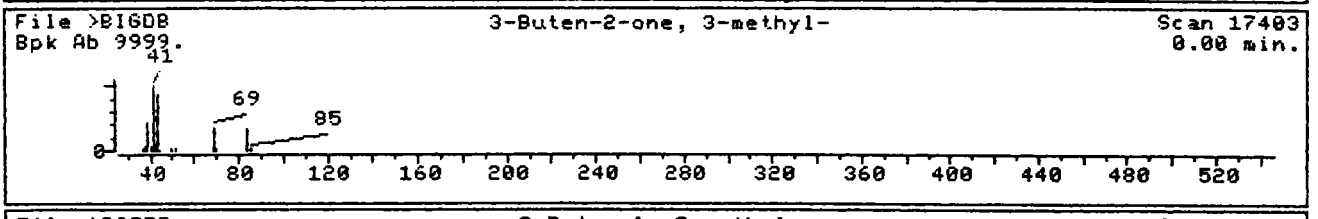

File >B4112 33.0-550.0 amu. C156816 1:5
CLP TIC
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0

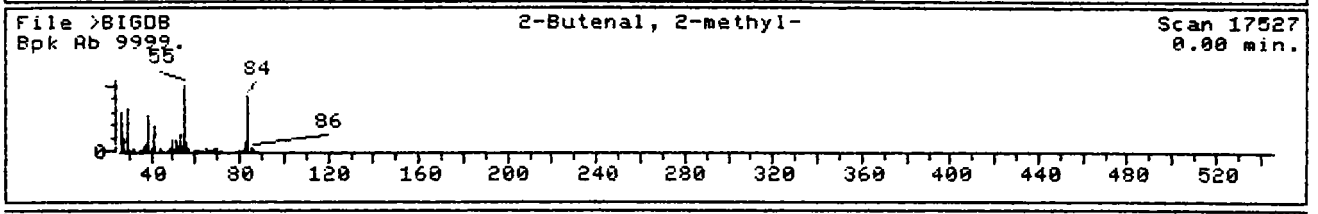
JB
6/14/97

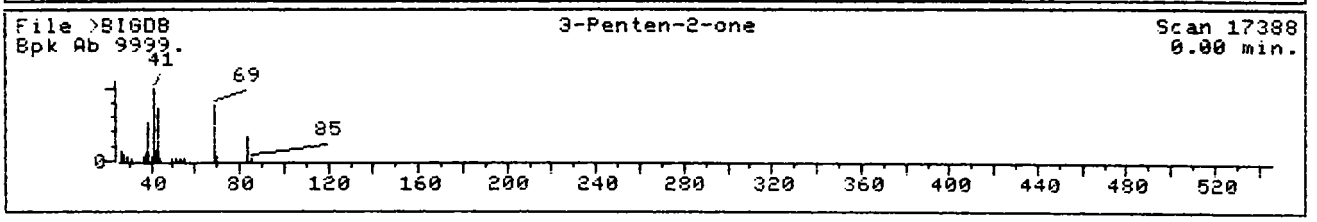

File >B4112 33.0-550.0 amu. C156816 1:5
TIC
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0


File >B4112 33.0-550.0 amu. C156816 1:5
CLP TIC
560000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
17
18
19
20
21
22
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0









UNKNOWN # 1

RT = 4.43 AREA = 225054.0 RESPONSE FACTOR IS 20.00

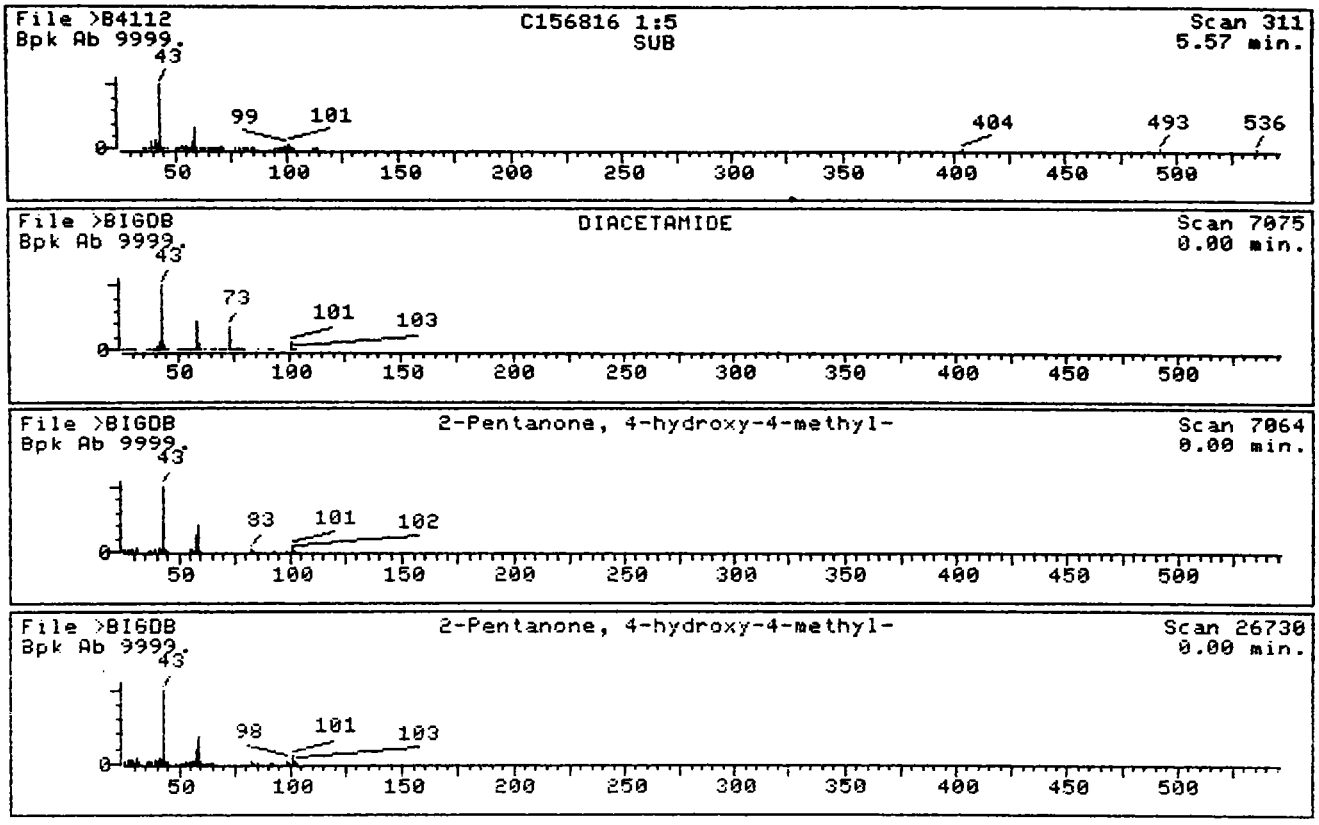
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1.	3-Buten-2-one, 3-methyl-	84 C5H8O
2.	2-Butenal, 2-methyl-	84 C5H8O
3.	3-Penten-2-one	84 C5H8O
4.	CIS-METHYL PROPENYL KETONE	84 C5H8O
5.	Furan, 2,3-dihydro-4-methyl-	84 C5H8O

Sample file: >B4112 Spectrum #: 213
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	814788	17403	"BIGDB	40	37	3	0	223	18	20	16
2.	38*	1115113	17527	"BIGDB	61	45	1	0	64	52	10	57
3.	36*	625332	17388	"BIGDB	33	63	3	0	190	26	14	13
4.	36*	0	17345	"BIGDB	33	63	3	0	190	26	14	13
5.	26*	34314835	17562	"BIGDB	38	64	2	0	75	42	8	14

JP 6/16/94



NP 6/16/97

UNKNOWN #,2

RT = 5.57 AREA = 400763.0 RESPONSE FACTOR IS 35.00

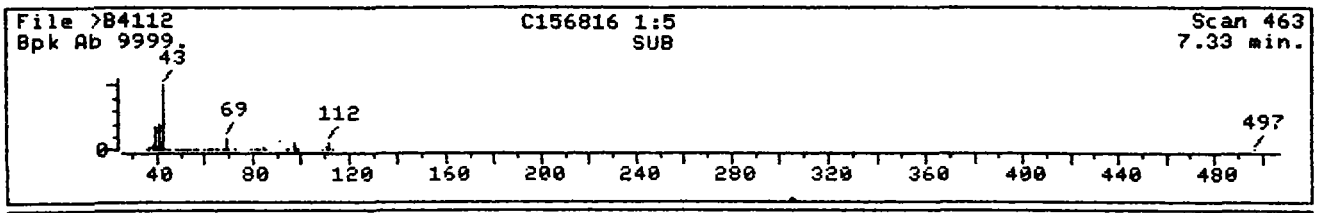
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

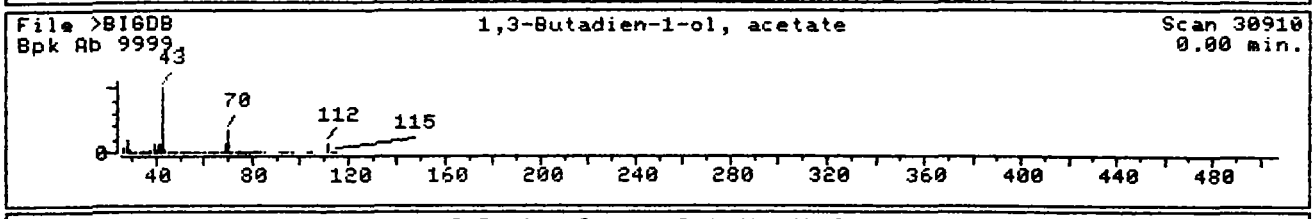
1.	DIACETAMIDE	101	C4H7NO2
2.	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2
3.	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2
4.	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2
5.	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2

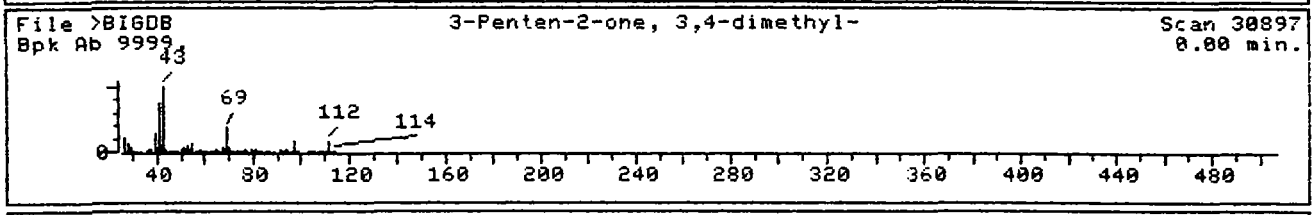
Sample file: >B4112 Spectrum #: 311

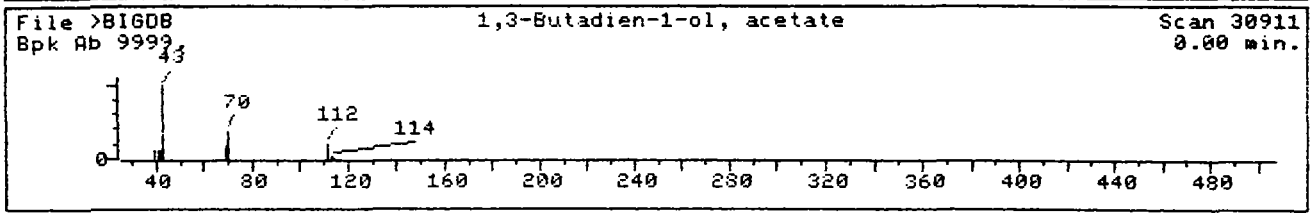
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	625774	7075	"BIGDB	25	54	2	0	70	14	30	14
2.	52	123422	7064	"BIGDB	45	30	2	0	83	20	20	15
3.	52	123422	26730	"BIGDB	47	34	2	0	87	18	20	16
4.	52	123422	7065	"BIGDB	40	39	2	0	74	16	20	14
5.	37	123422	6278	"BIGDB	38	37	1	0	100	27	14	14









6/16/94

UNKNOWN #,3

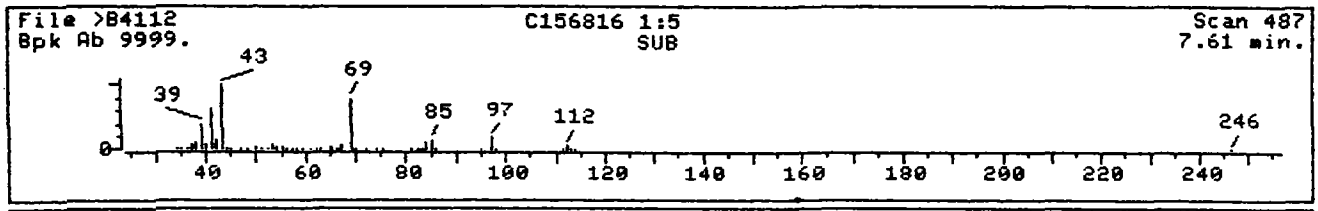
RT = 7.33 AREA = 312601.0 RESPONSE FACTOR IS 27.00

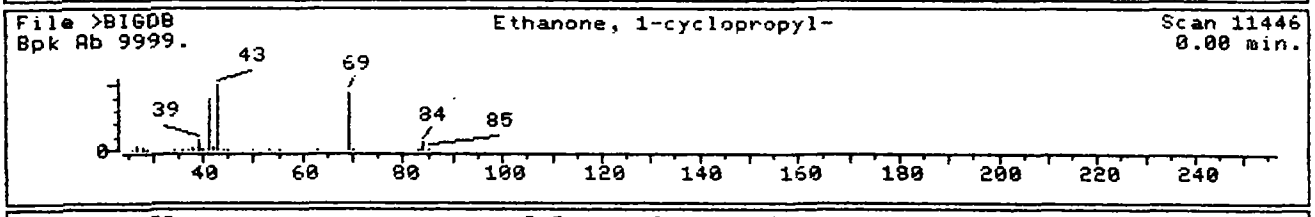
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

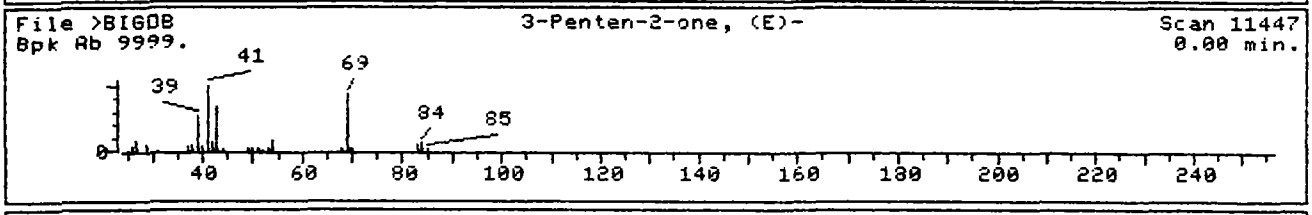
1. 1,3-Butadien-1-ol, acetate 112 C6H8O2
2. 3-Penten-2-one, 3,4-dimethyl- 112 C7H12O
3. 1,3-Butadien-1-ol, acetate 112 C6H8O2
4. 5-Hexen-2-one, 5-methyl- (8CI9CI) 112 C7H12O

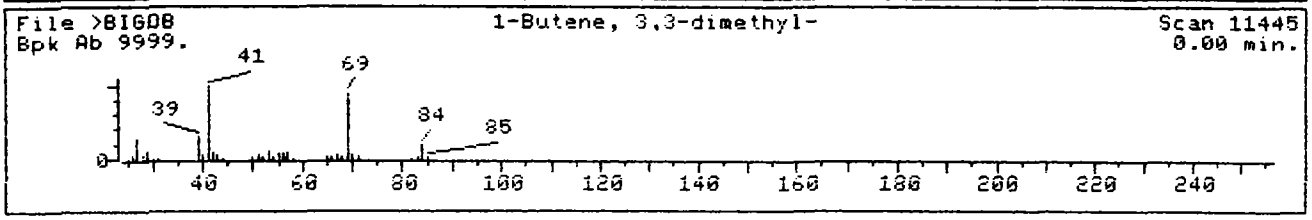
Sample file: >B4112 Spectrum #: 463
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	37*	1515760	30910	"BIGDB	24	56	2	0	85	29	14	14
2.	20*	684946	30897	"BIGDB	34	57	2	0	50	52	5	17
3.	15*	1515760	30911	"BIGDB	22	30	1	0	59	60	3	14
4.	15*	3240093	24169	"BIGDB	25	50	2	0	55	58	3	14









AB 6/17/94

UNKNOWN #4

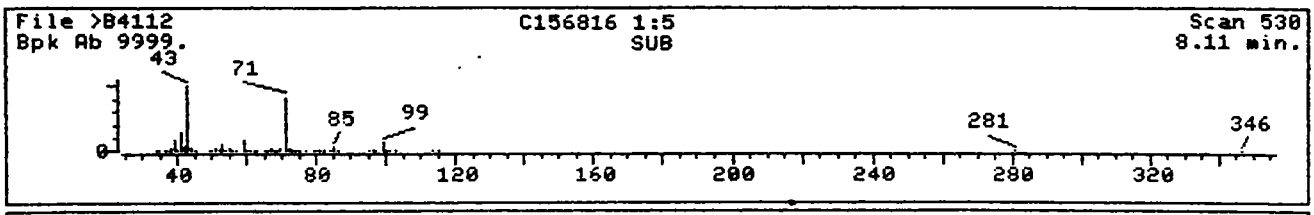
RT = 7.61 AREA = 237408.0 RESPONSE FACTOR IS 21.00

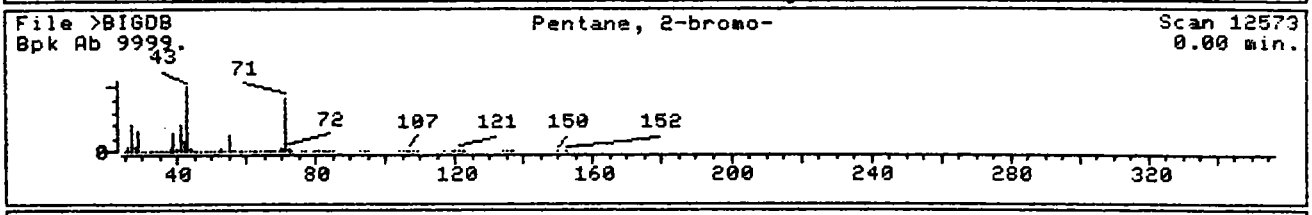
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

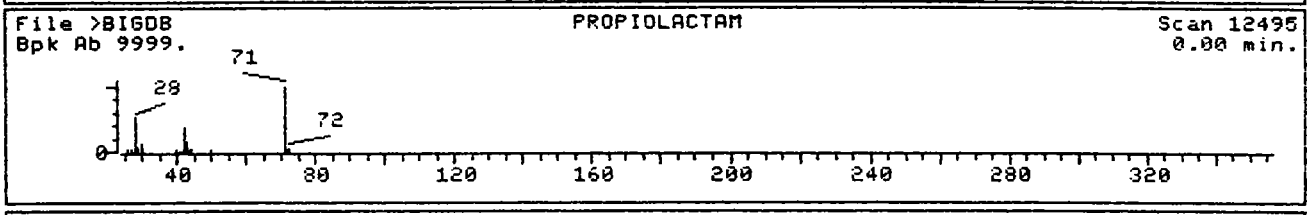
1.	Ethanone, 1-cyclopropyl-	84	C5H8O
2.	3-Penten-2-one, (E)-	84	C5H8O
3.	1-Butene, 3,3-dimethyl-	84	C6H12
4.	1H-Pyrazole, 4,5-dihydro-5-propyl-	112	C6H12N2
5.	2-Propenoic acid, 2-methyl-, ethenyl ester	112	C6H8O2

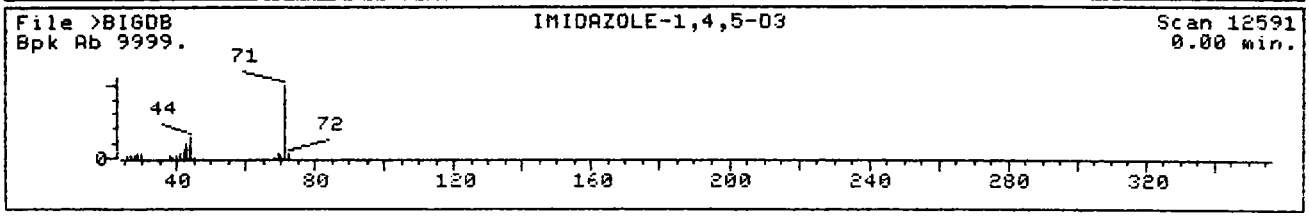
Sample file: >B4112 Spectrum #: 487
Search speed: 1 Tilting option: N No. of ion ranges searched: 38

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	62*	765435	11446	"BIGDB	37	38	0	0	78	26	25	42
2.	56*	3102338	11447	"BIGDB	52	45	2	0	63	25	22	28
3.	37*	558372	11445	"BIGDB	28	61	2	0	63	28	14	14
4.	33*	75011904	30994	"BIGDB	30	38	1	0	65	34	12	16
5.	32*	4245378	11414	"BIGDB	27	50	1	0	63	34	12	15









JP 6/16/94

UNKNOWN # 5

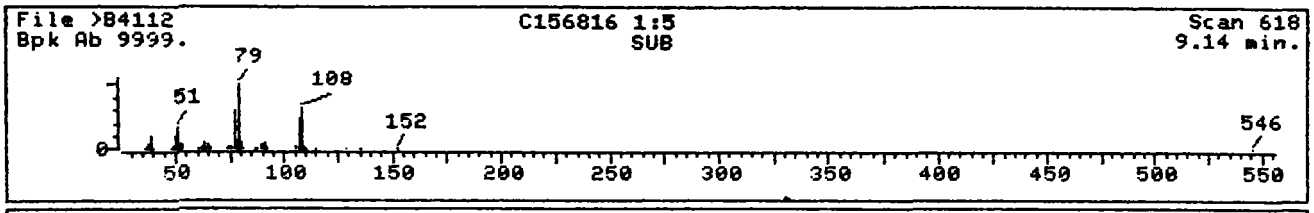
RT = 8.11 AREA = 424235.0 RESPONSE FACTOR IS 37.00

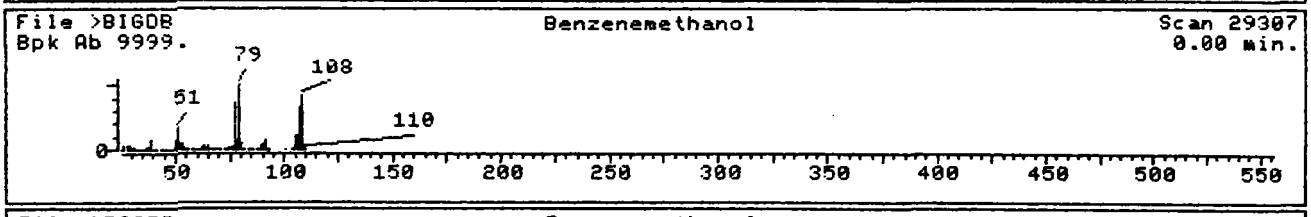
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

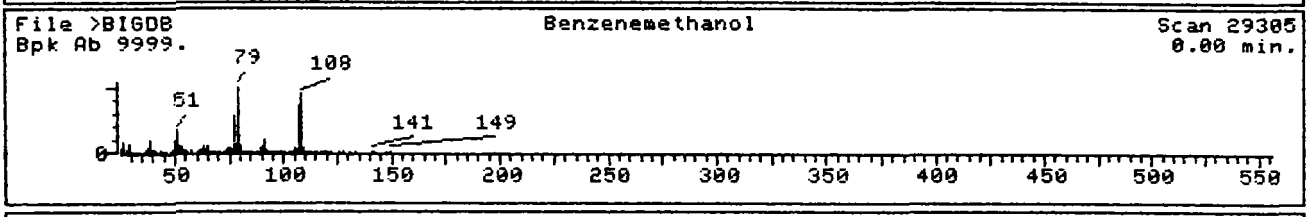
1. Pentane, 2-bromo-	150	C5H11Br
2. PROPIOLACTAM	71	C3H5NO
3. IMIDAZOLE-1,4,5-D3	0	

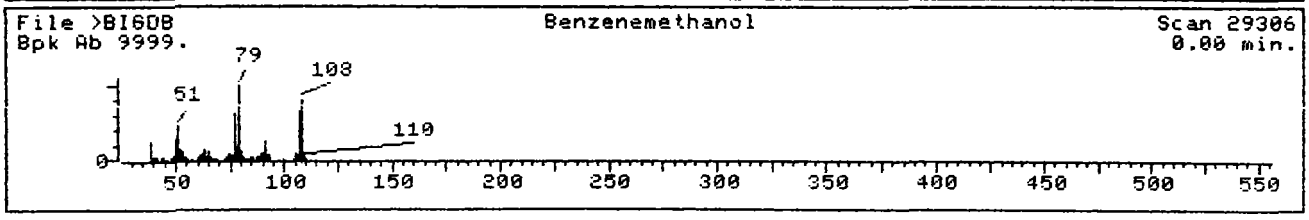
Sample file: >B4112 Spectrum #: 530
Search speed: 1 Tilting option: N No. of ion ranges searched: 38

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52	107813	12573	"BIGDB	41	47	2	0	70	19	20	13
2.	20*	0	12495	"BIGDB	20	36	1	0	68	54	5	14
3.	20*	53716577	12591	"BIGDB	21	51	2	0	82	54	5	13









UNKNOWN #,6

RT = 9.14 AREA = 585643.0 RESPONSE FACTOR IS 51.00

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

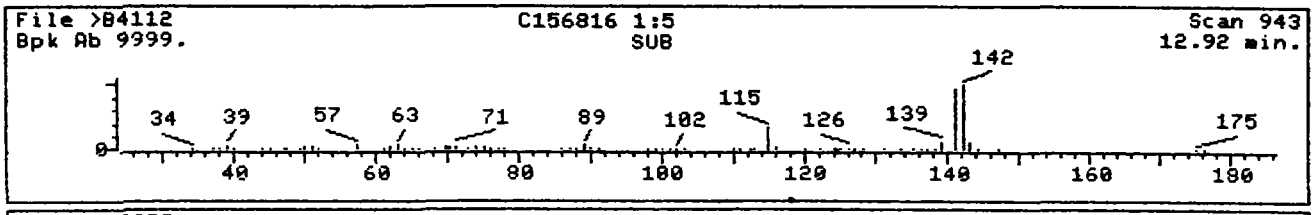
1.	Benzenemethanol	108	C7H8O
2.	Benzenemethanol	108	C7H8O
3.	Benzenemethanol	108	C7H8O
4.	Benzenemethanol	108	C7H8O
5.	Benzenemethanol	108	C7H8O

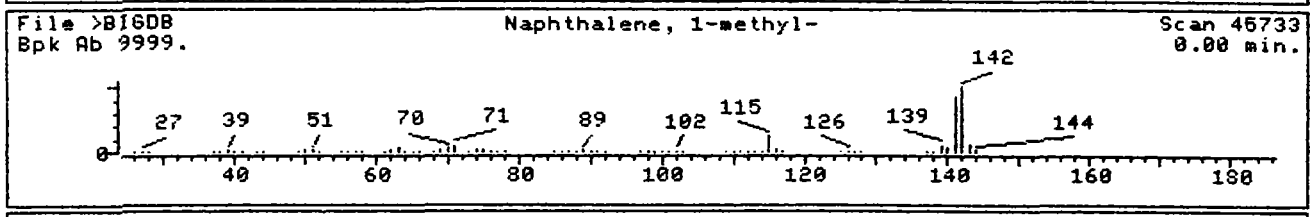
TARGET CMPD. 6/16/94

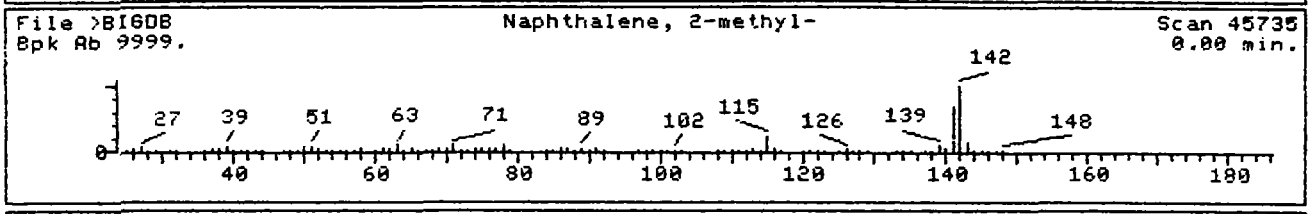
Sample file: >B4112 Spectrum #: 618

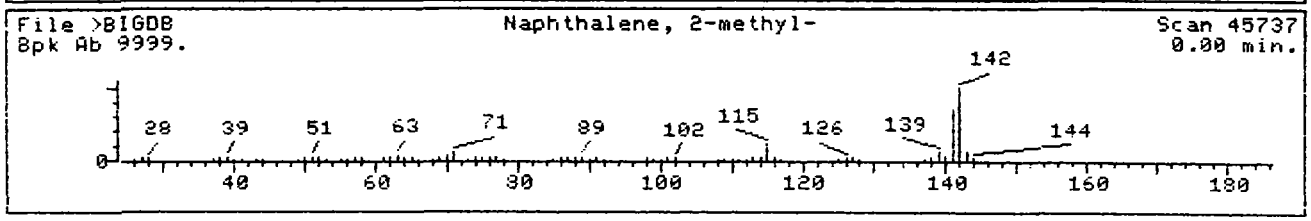
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	100516	29307	"BIGDB	88	23	0	0	66	9	68	96
2.	90*	100516	29305	"BIGDB	74	38	0	0	59	27	57	92
3.	89*	100516	29306	"BIGDB	80	32	2	0	72	4	66	61
4.	77*	100516	29311	"BIGDB	54	10	0	0	66	34	32	78
5.	71*	100516	29308	"BIGDB	69	47	1	0	58	29	29	67









UNKNOWN #,7

RT = 12.92 AREA = 296757.0 RESPONSE FACTOR IS 20.00

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

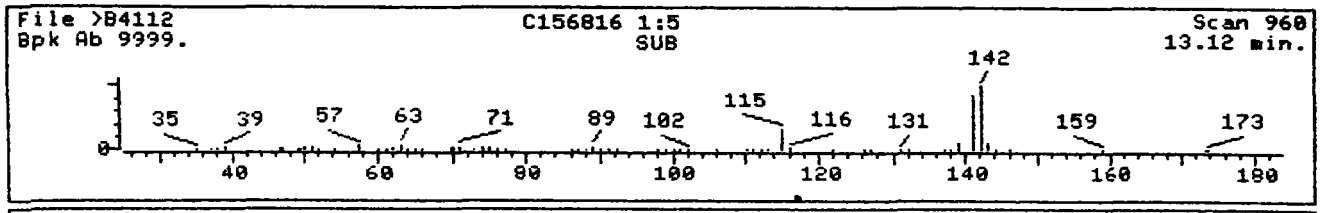
1. Naphthalene, 1-methyl- 142 C11H10
2. Naphthalene, 2-methyl- 142 C11H10
3. Naphthalene, 2-methyl- 142 C11H10
4. Naphthalene, 1-methyl- 142 C11H10
5. Naphthalene, 1-methyl- 142 C11H10

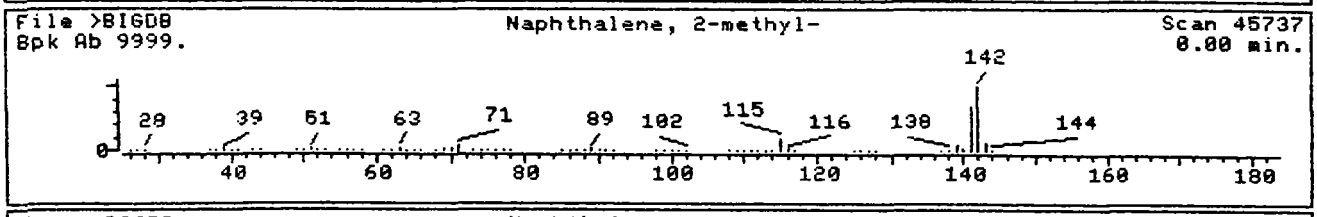
TARGET CMPD. 6/16/94

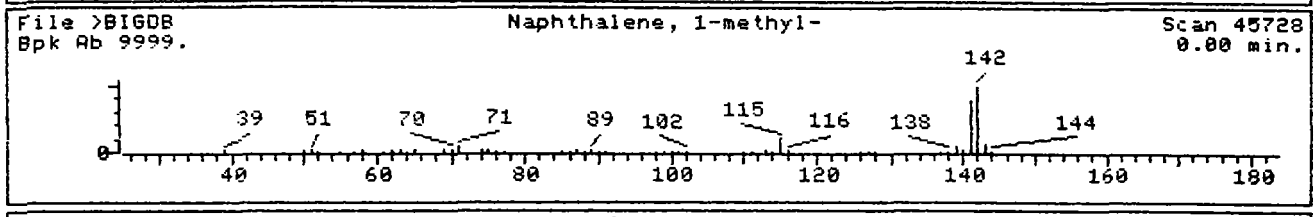
Sample file: >B4112 Spectrum #: 943

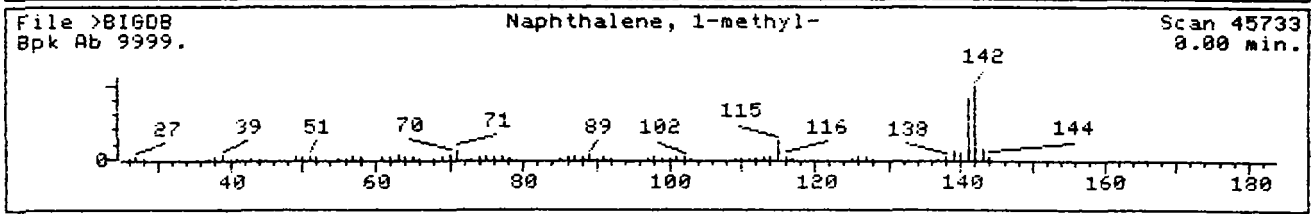
Search speed: 1 Tilting option: N No. of ion ranges searched: 38

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	90120	45733	"BIGDB	66	32	2	0	89	5	63	46
2.	87*	91576	45735	"BIGDB	65	31	2	0	100	3	63	48
3.	87*	91576	45737	"BIGDB	64	31	2	0	100	5	63	48
4.	87*	90120	45731	"BIGDB	63	33	2	0	100	4	63	44
5.	87*	90120	45728	"BIGDB	60	33	2	0	100	5	63	44









UNKNOWN #,8

RT = 13.12 AREA = 262870.0 RESPONSE FACTOR IS 18.00

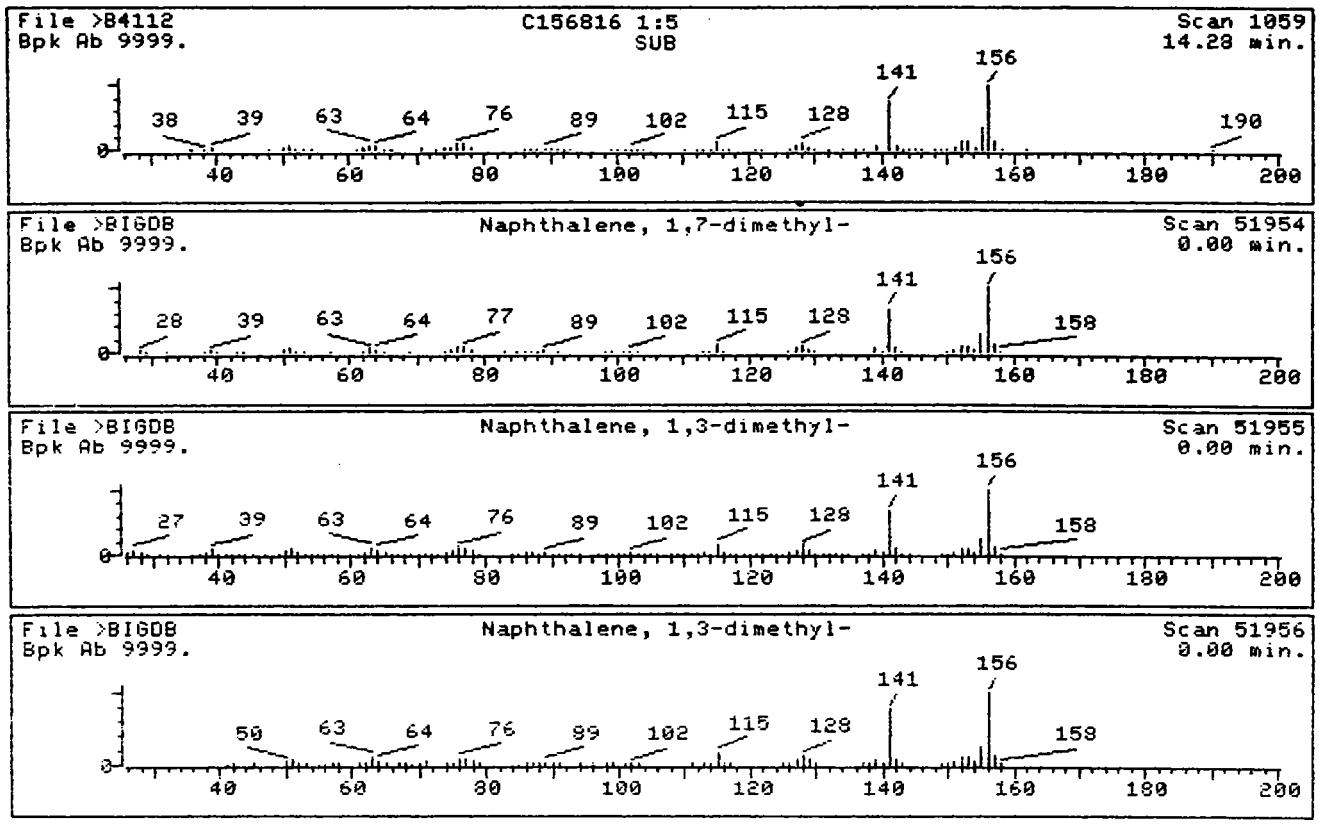
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1.	Naphthalene, 2-methyl-	142	C11H10
2.	Naphthalene, 1-methyl-	142	C11H10
3.	Naphthalene, 1-methyl-	142	C11H10
4.	Naphthalene, 1-methyl-	142	C11H10
5.	Naphthalene, 2-methyl-	142	C11H10

Sample file: >B4112 Spectrum #: 960

Search speed: 1 Tilting option: N No. of ion ranges searched: 39

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	91576	45737	"BIGDB	73	22	2	0	95	4	66	60
2.	88*	90120	45728	"BIGDB	70	23	2	0	97	3	65	59
3.	87*	90120	45733	"BIGDB	66	32	2	0	83	4	63	46
4.	87*	90120	45731	"BIGDB	63	33	2	0	97	3	63	44
5.	87*	91576	45735	"BIGDB	59	37	2	0	95	2	63	40



UNKNOWN #,9

RT = 14.28 AREA = 277844.0 RESPONSE FACTOR IS 41.00

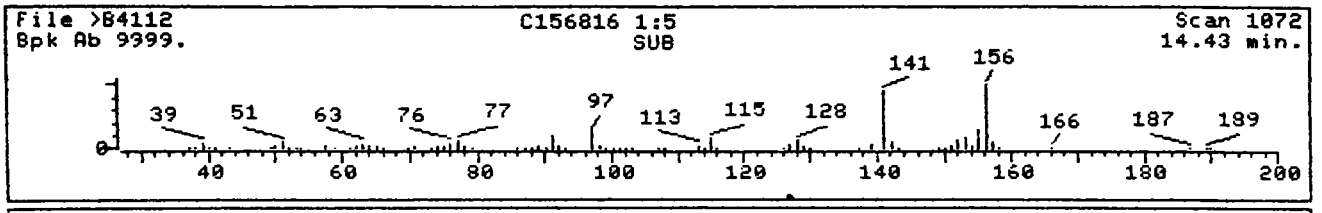
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

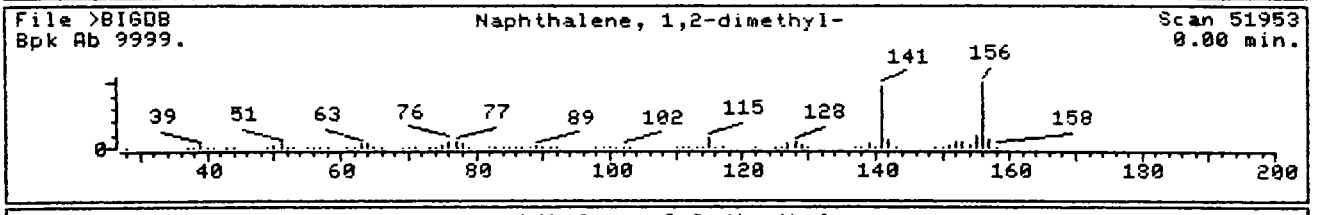
1. Naphthalene, 1,7-dimethyl- 156 C12H12
2. Naphthalene, 1,3-dimethyl- 156 C12H12
3. Naphthalene, 1,3-dimethyl- 156 C12H12
4. Naphthalene, 1,8-dimethyl- 156 C12H12
5. Naphthalene, 2,3-dimethyl- 156 C12H12

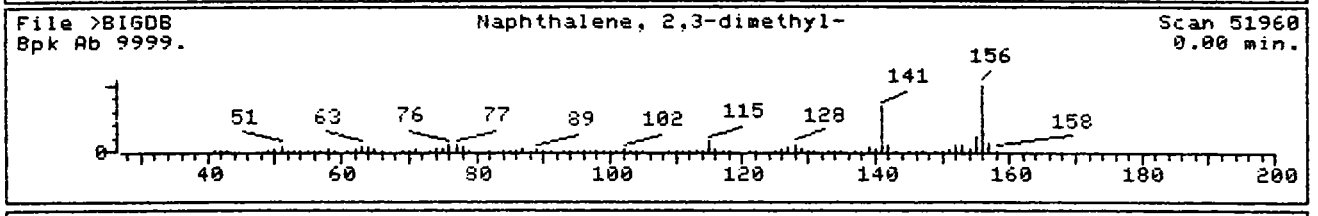
AD 6/16/97

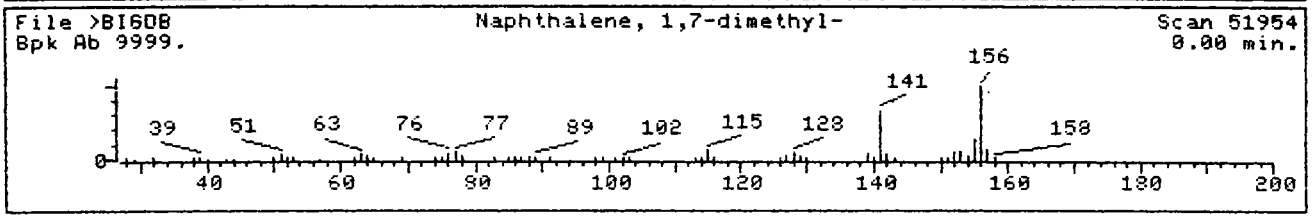
Sample file: >B4112 Spectrum #: 1059
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	99*	575371	51954	"BIGDB	108	0	0	0	100	6	68	99
2.	97*	575417	51955	"BIGDB	98	10	0	0	77	6	68	97
3.	97*	575417	51956	"BIGDB	98	11	0	0	74	10	68	97
4.	97*	569415	51948	"BIGDB	96	9	0	0	88	10	68	97
5.	97*	581408	51959	"BIGDB	95	9	0	0	90	4	72	97









UNKNOWN #,10

RT = 14.43 AREA = 347118.0 RESPONSE FACTOR IS 52.00

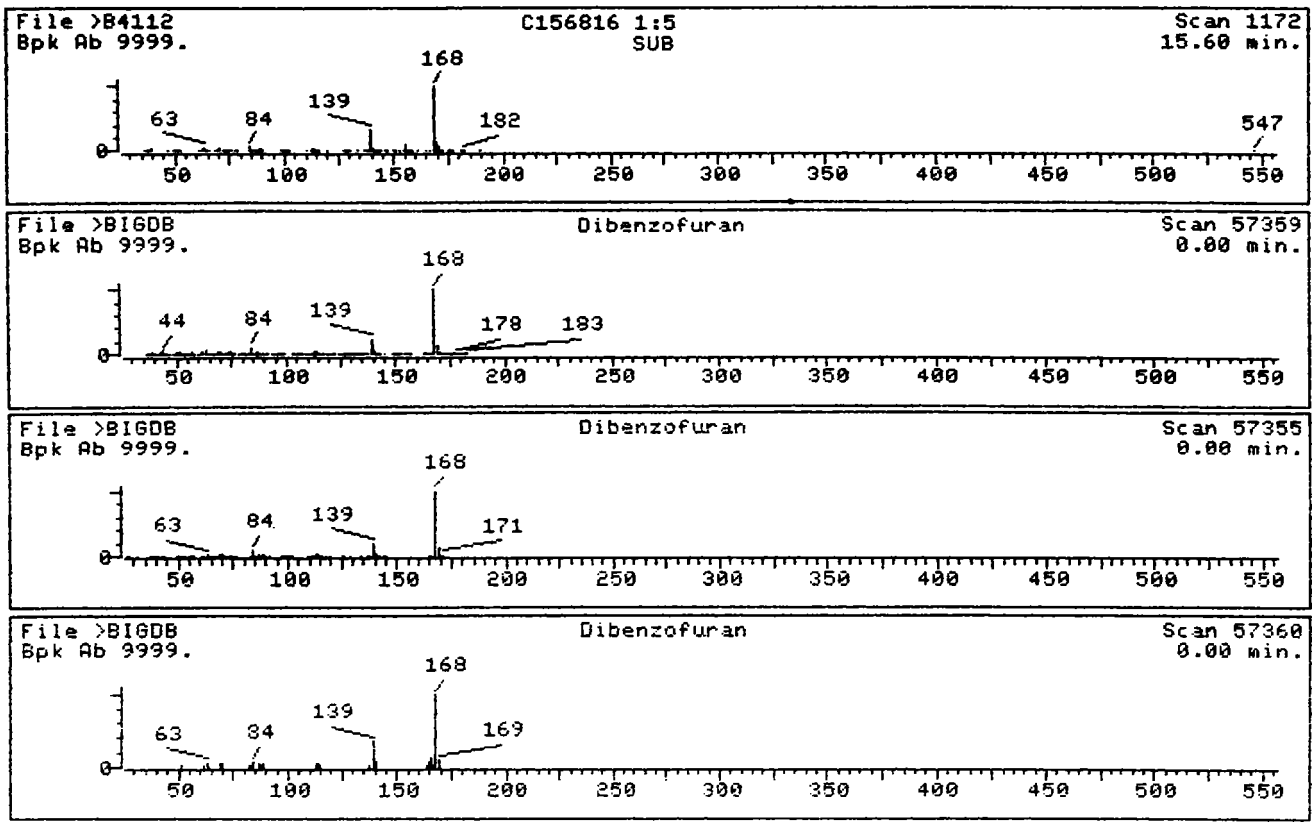
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1. Naphthalene, 1,2-dimethyl- 156 C12H12
2. Naphthalene, 2,3-dimethyl- 156 C12H12
3. Naphthalene, 1,7-dimethyl- 156 C12H12
4. Naphthalene, 2,3-dimethyl- 156 C12H12
5. Naphthalene, 1,6-dimethyl- 156 C12H12

JP
~~6/14/94~~
6/16/94

Sample file: >B4112 Spectrum #: 1072
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	573988	51953	"BIGDB	100	13	0	0	80	17	60	97
2.	96*	581408	51960	"BIGDB	95	9	0	0	90	13	64	97
3.	95*	575371	51954	"BIGDB	102	6	1	0	100	13	64	96
4.	95*	581408	51959	"BIGDB	96	8	1	0	85	13	64	96
5.	94*	575439	51957	"BIGDB	95	13	0	0	85	29	57	97



6/18/94

UNKNOWN #,11

RT = 15.60 AREA = 346941.0 RESPONSE FACTOR IS 52.00

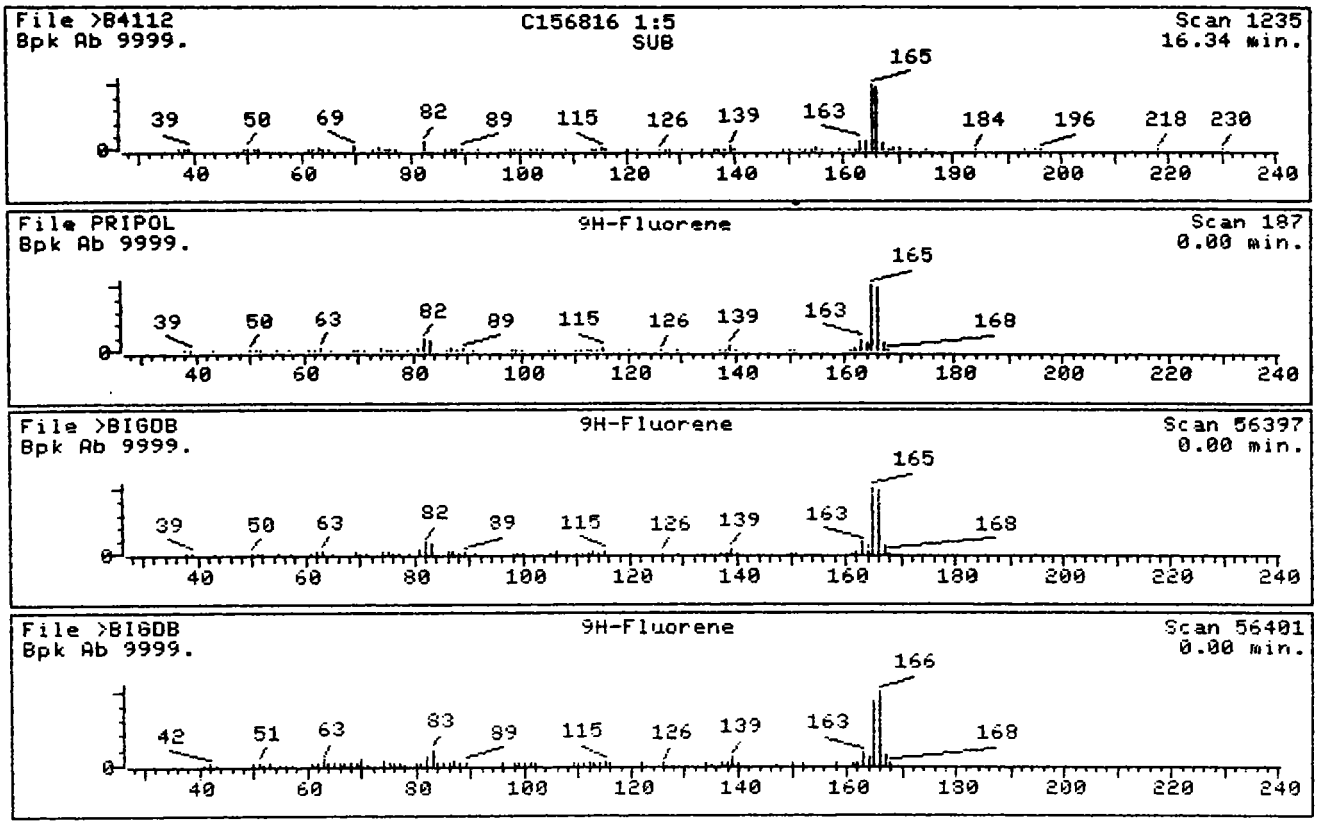
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1. Dibenzofuran 168 C12H8O
2. Dibenzofuran 168 C12H8O
3. Dibenzofuran 168 C12H8O
4. Dibenzofuran 168 C12H8O
5. 4,5,6,7,8,9-Tetrahydro-cyclooctа[d]-1,2,3-thiadiazol 168 C8H12N2S

TARGET CMD AB

Sample file: >B4112 Spectrum #: 1172
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79*	132649	57359	"BIGDB	50	40	2	0	100	10	48	31
2.	71*	132649	57355	"BIGDB	50	33	2	0	100	12	38	31
3.	60*	132649	57360	"BIGDB	25	68	2	0	98	12	30	14
4.	53*	132649	57358	"BIGDB	60	33	1	0	55	45	17	56
5.	52*	0	57448	"BIGDB	23	53	3	0	100	17	20	12



Target Compound ID 6/16/94

UNKNOWN #,12

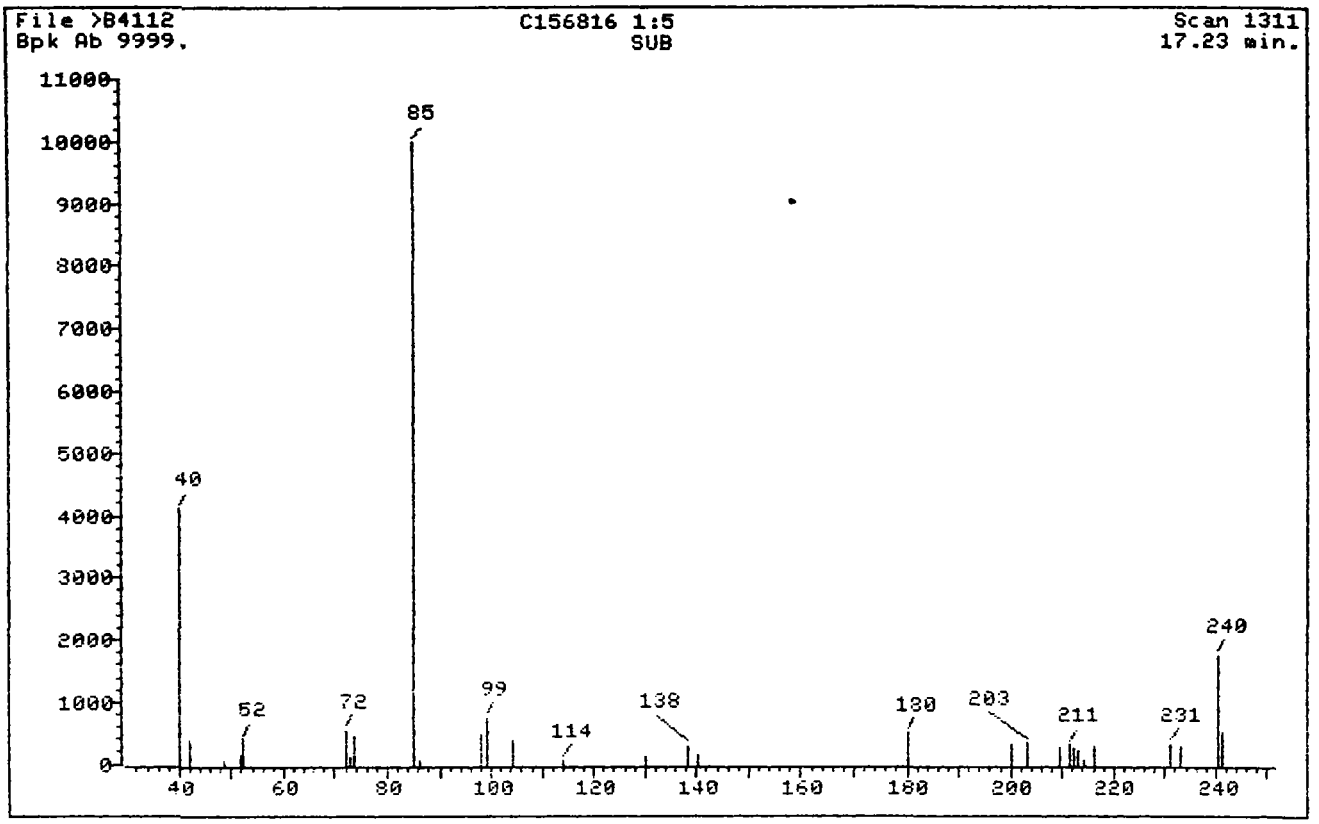
RT = 16.34 AREA = 309932.0 RESPONSE FACTOR IS 46.00

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1.	9H-Fluorene	166	C13H10
2.	9H-Fluorene	166	C13H10
3.	9H-Fluorene	166	C13H10
4.	9H-Fluorene-9-carboxylic acid	210	C14H10O2
5.	9H-Fluorene	166	C13H10

Sample file: >B4112 Spectrum #: 1235
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	88*	187	285	PRIPOL	73	25	2	0	76	5	65	55
2.	88*	86737	56397	"BIGDB	73	25	2	0	76	5	65	55
3.	86*	86737	56401	"BIGDB	53	47	1	0	80	5	60	37
4.	84	1989339	56460	"BIGDB	94	15	1	0	80	10	55	63
5.	84*	188	286	PRIPOL	68	26	1	0	86	8	55	66



UNKNOWN #,13

RT = 17.23 AREA = 243716.0 RESPONSE FACTOR IS 7.80

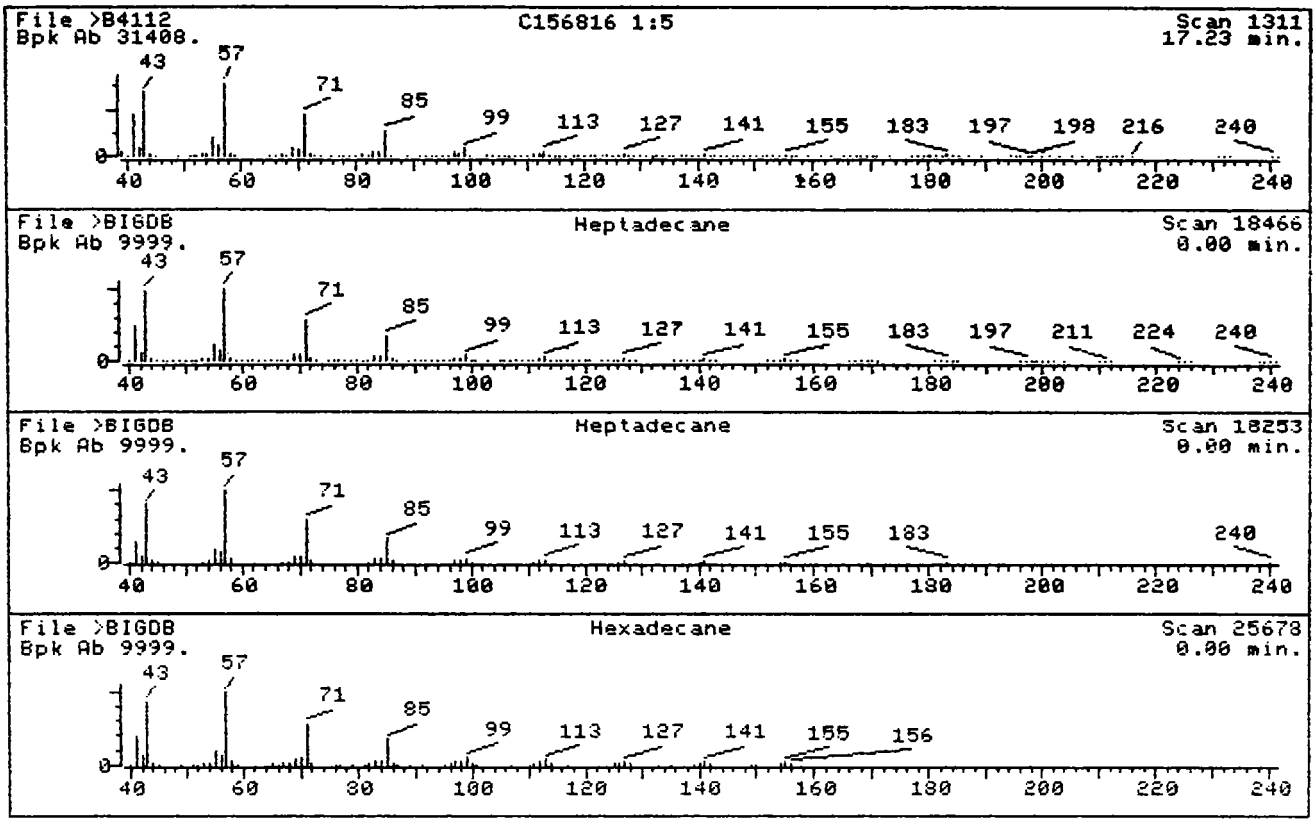
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

Sample file: >B4112 Spectrum #: 1311

No data base entries were retrieved.

See attached

6/16/94

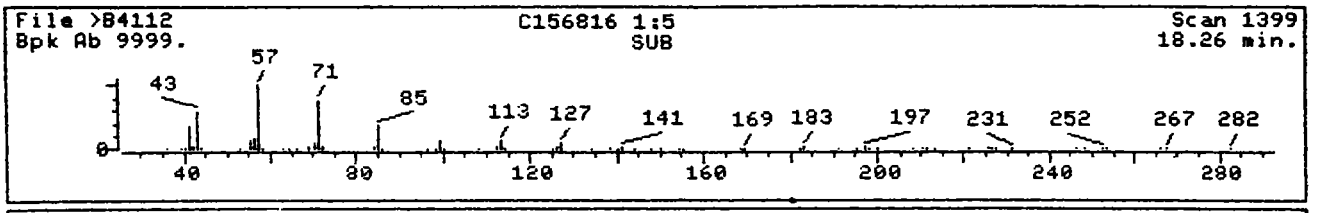


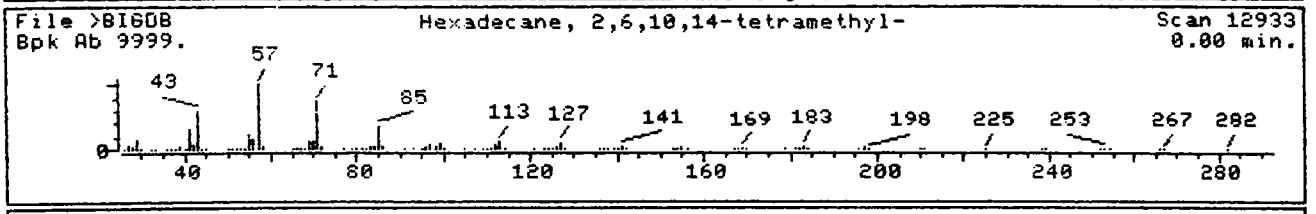
HA 6/3/94.

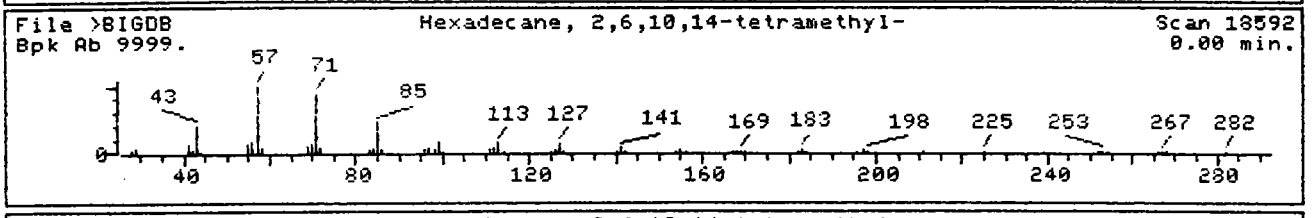
1. Heptadecane 240 C17H36
2. Heptadecane 240 C17H36
3. Hexadecane 226 C16H34
4. Pentacosane 352 C25H52

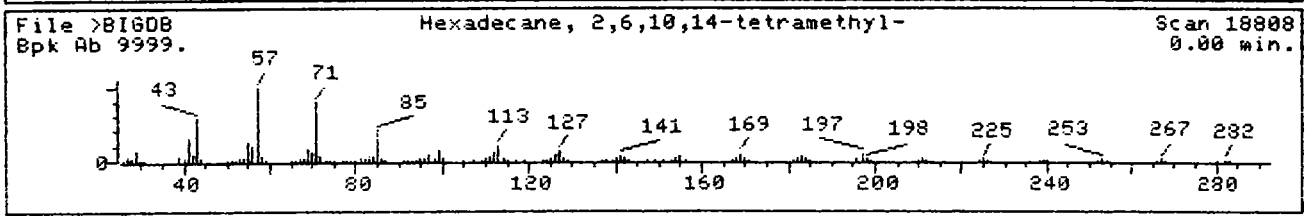
Sample file: >B4112 Spectrum #: 1311
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	99*	629787	18466	"BIGDB	109	6	0	0	91	4	72	99
2.	97*	629787	18253	"BIGDB	96	15	0	0	97	2	72	97
3.	89	544763	25678	"BIGDB	114	7	1	0	82	2	66	77
4.	89	629992	18469	"BIGDB	125	19	1	0	74	5	66	77









BDL JP 6/16/94

UNKNOWN #,14

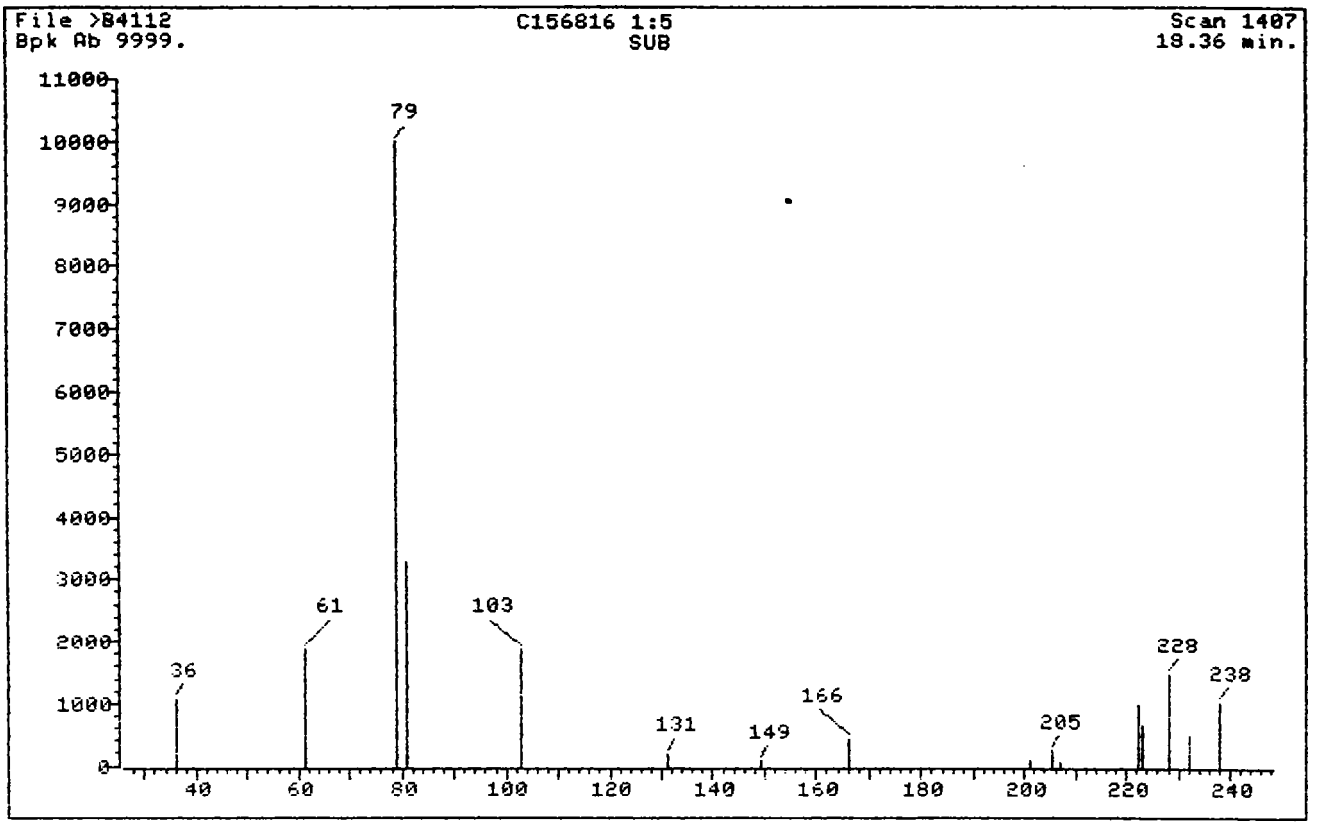
RT = 18.26 AREA = 211830.0 RESPONSE FACTOR IS 6.80

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1.	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42
2.	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42
3.	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42
4.	Docosane	310	C22H46
5.	Tetradecane, 4-ethyl-	226	C16H34

Sample file: >B4112 Spectrum #: 1399
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	638368	12933	"BIGDB	101	33	2	0	87	1	66	77
2.	89*	638368	18592	"BIGDB	91	39	2	0	80	1	66	71
3.	87*	638368	18808	"BIGDB	62	77	2	0	66	1	63	40
4.	78	629970	18589	"BIGDB	60	71	2	0	89	1	55	12
5.	78*	55045142	18810	"BIGDB	54	67	3	0	121	3	55	17



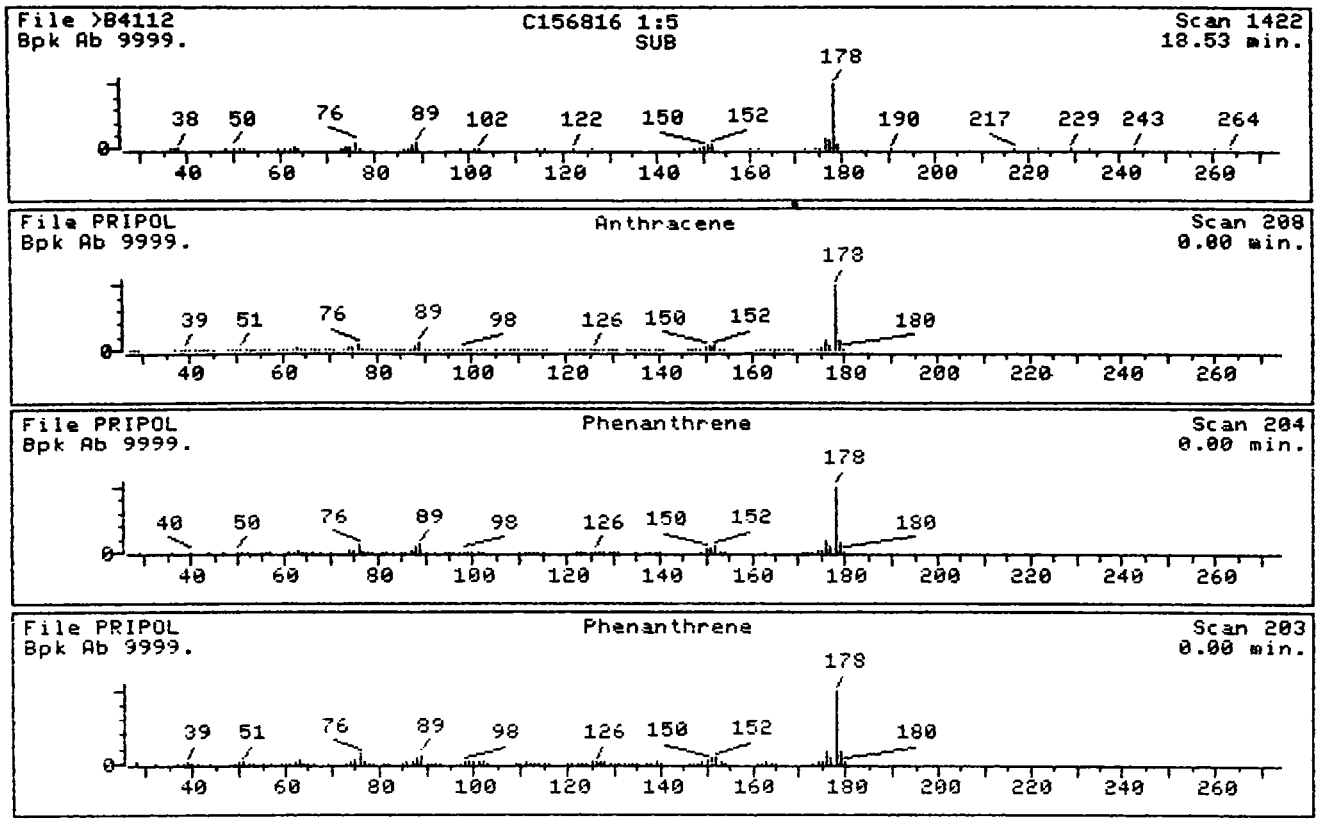
UNKNOWN #,15

RT = 18.36 AREA = 245091.0 RESPONSE FACTOR IS 7.80

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

Sample file: >B4112 Spectrum #: 1407

No data base entries were retrieved.



UNKNOWN #,16

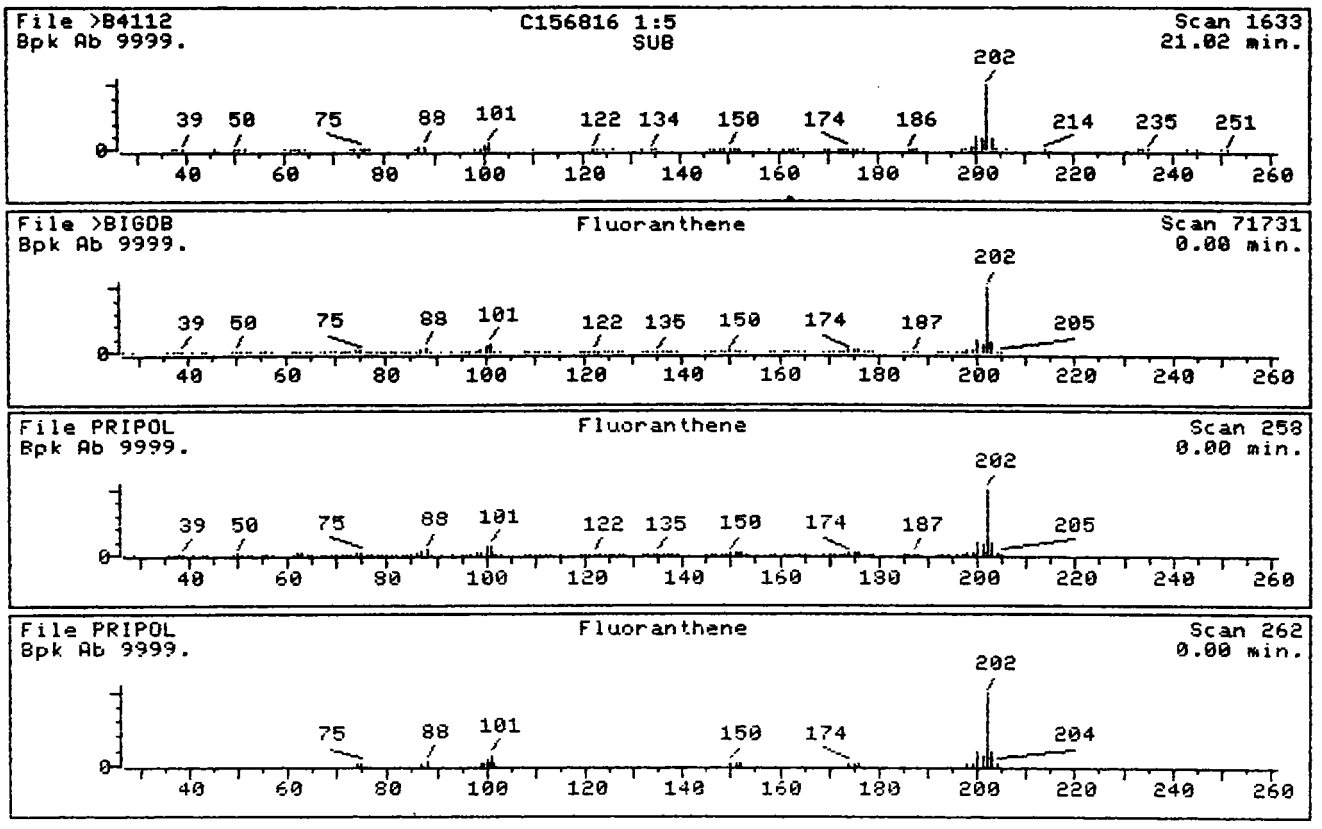
RT = 18.53 AREA = 212369.0 RESPONSE FACTOR IS 6.80

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1.	Anthracene	178 C14H10
2.	Phenanthrene	178 C14H10
3.	Phenanthrene	178 C14H10
4.	9H-Fluorene, 9-methylene-	178 C14H10
5.	Anthracene	178 C14H10

Sample file: >B4112 Spectrum #: 1422
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	88*	208	310	PRIPOL	70	30	2	0	80	0	65	50
2.	86*	204	306	PRIPOL	73	27	1	0	68	7	59	72
3.	86*	203	305	PRIPOL	58	42	2	0	87	3	60	35
4.	83*	4425825	61362	"BIGDB	75	25	2	0	74	8	54	57
5.	81*	120127	61315	"BIGDB	68	29	2	0	80	7	53	49



UNKNOWN #,17

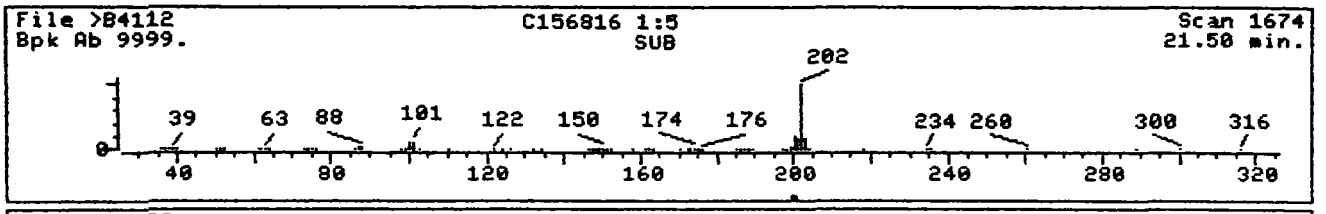
RT = 21.02 AREA = 1180357. RESPONSE FACTOR IS 38.00

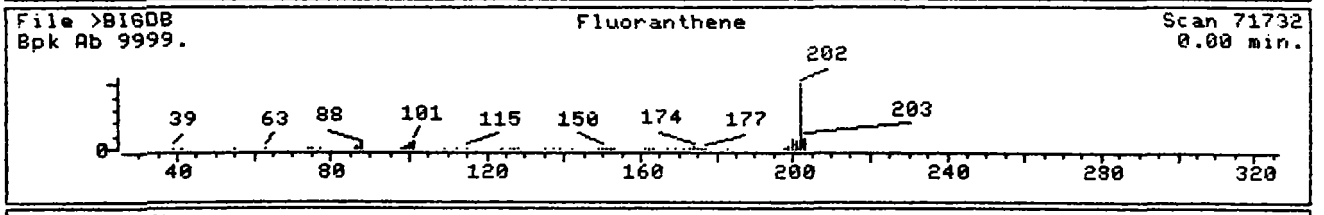
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

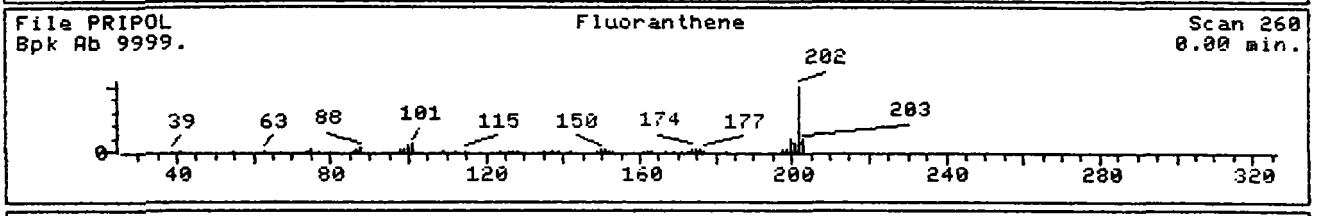
1. Fluoranthene 202 C16H10
2. Fluoranthene 202 C16H10
3. Fluoranthene 202 C16H10
4. Fluoranthene 202 C16H10
5. Fluoranthene 202 C16H10

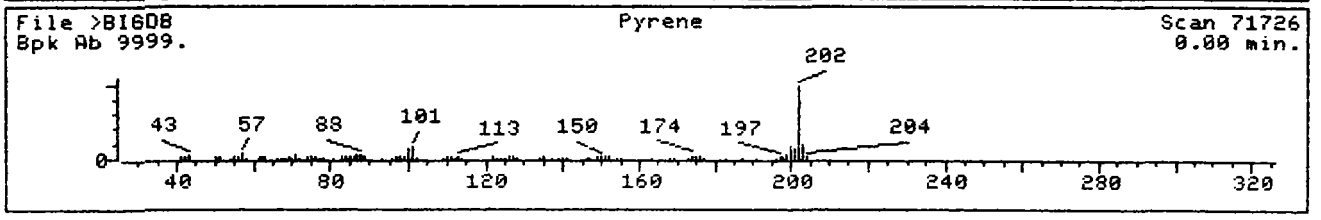
Sample file: >B4112 Spectrum #: 1633
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	206440	71731	"BIGDB	87	22	0	0	53	40	47	95
2.	89*	258	352	PRIPOL	82	30	0	0	56	37	47	94
3.	89*	262	356	PRIPOL	79	30	0	0	65	37	47	94
4.	87*	206440	71732	"BIGDB	87	18	1	0	66	15	55	86
5.	87*	260	354	PRIPOL	87	22	1	0	66	11	55	86









JN 6/16/94

UNKNOWN #,18

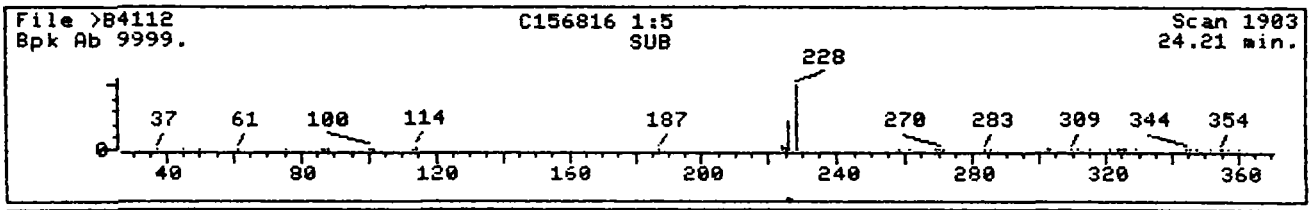
RT = 21.50 AREA = 1033410. RESPONSE FACTOR IS 71.00

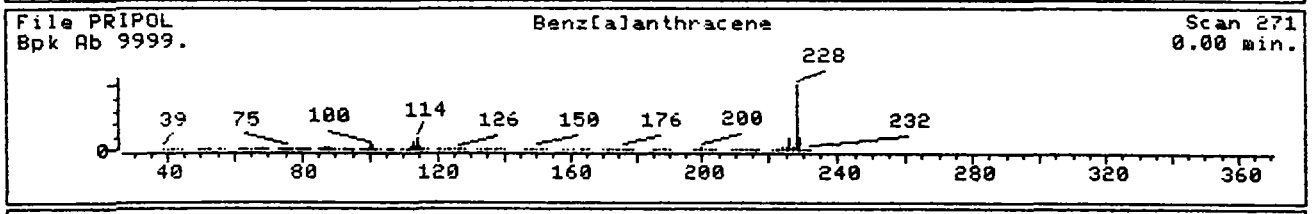
DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

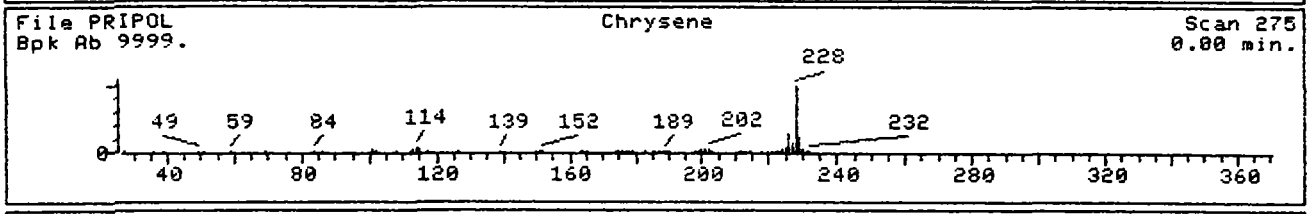
1.	Fluoranthene	202 C16H10
2.	Fluoranthene	202 C16H10
3.	Pyrene	202 C16H10
4.	Pyrene	202 C16H10
5.	Pyrene	202 C16H10

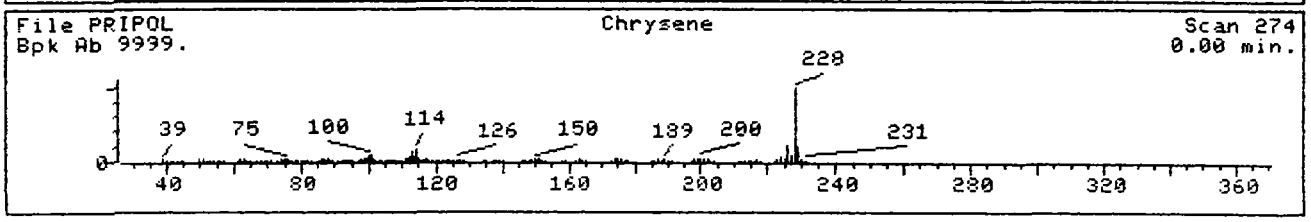
Sample file: >B4112 Spectrum #: 1674
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83*	206440	71732	"BIGDB	80	25	1	0	72	14	51	77
2.	83*	260	354	PRIPOL	76	33	1	0	72	11	51	74
3.	76*	129000	71726	"BIGDB	74	34	2	0	71	12	40	56
4.	75*	129000	71725	"BIGDB	62	28	1	0	75	20	35	60
5.	75*	250	345	PRIPOL	62	36	1	0	75	17	35	60









TARGET CMPD AB 6/14/94

UNKNOWN #,20

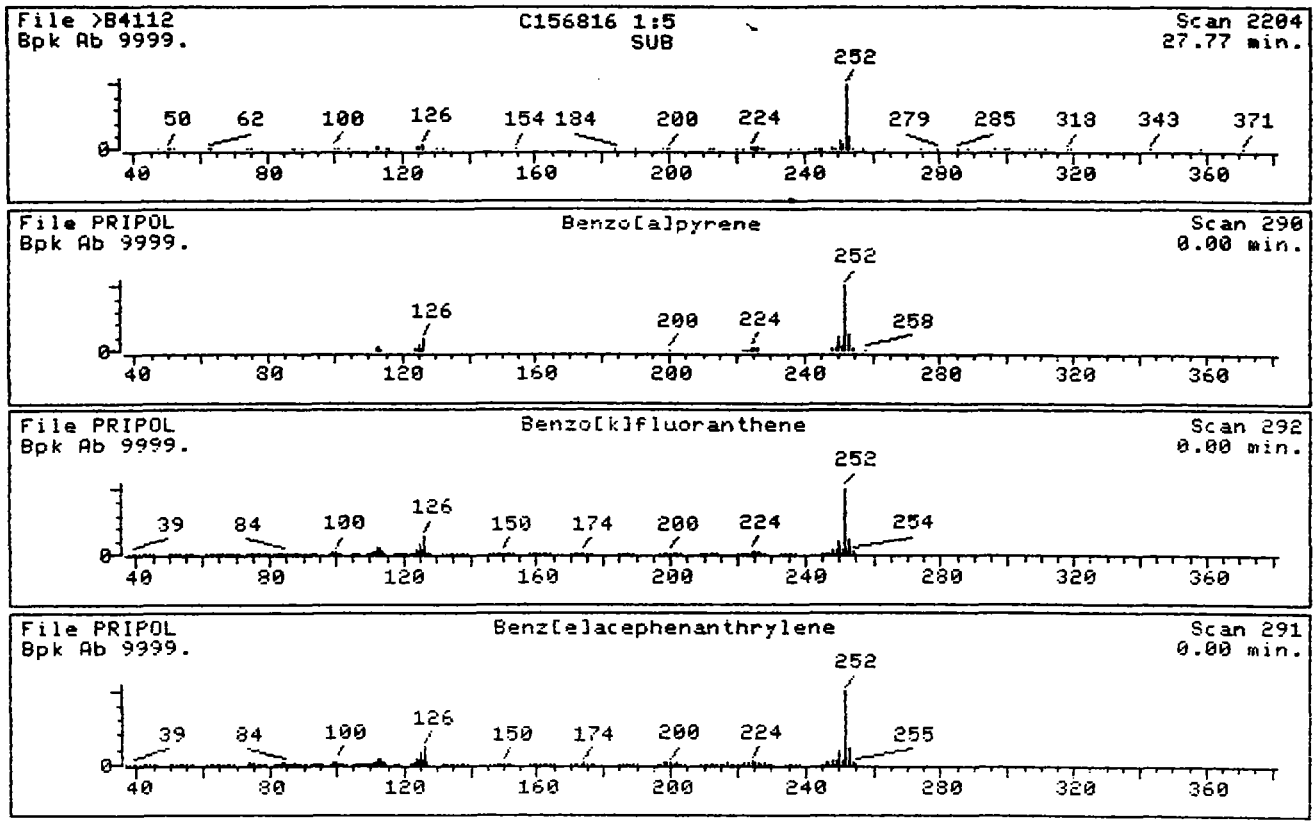
RT = 24.21 AREA = 246537.0 RESPONSE FACTOR IS 17.00

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1. Benz[a]anthracene 228 C18H12
2. Chrysene 228 C18H12
3. Chrysene 228 C18H12
4. Chrysene 228 C18H12

Sample file: >B4112 Spectrum #: 1903
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	271	374	PRIPOL	33	89	3	0	100	32	12	13
2.	30*	275	378	PRIPOL	25	85	3	0	100	32	12	13
3.	30*	274	377	PRIPOL	26	95	3	0	100	32	12	13
4.	27*	218019	81964	"BIGDB	25	81	3	0	100	38	10	13



Target Cmpd
6/16/94

UNKNOWN #,21

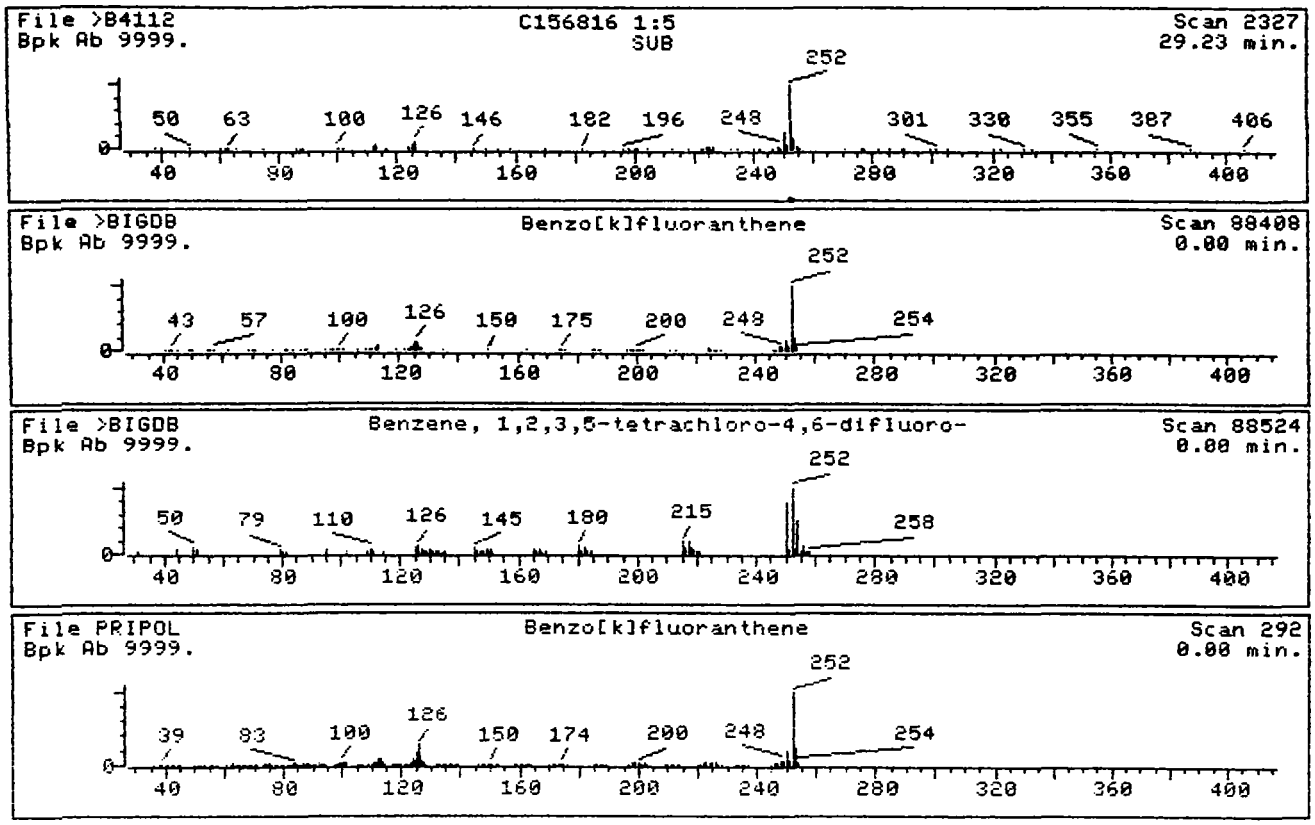
RT = 27.77 AREA = 343270.0 RESPONSE FACTOR IS 100.00

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1.	Benzo[a]pyrene	252	C20H12
2.	Benzo[k]fluoranthene	252	C20H12
3.	Benz[e]acephenanthrylene	252	C20H12
4.	Benzo[a]pyrene	252	C20H12
5.	Benzo[a]pyrene	252	C20H12

Sample file: >B4112 Spectrum #: 2204
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	290	410	PRIPOL	92	38	2	0	77	5	66	71
2.	83*	292	412	PRIPOL	70	65	2	0	81	7	54	50
3.	83*	291	411	PRIPOL	70	65	2	0	81	7	54	50
4.	81*	288	408	PRIPOL	66	67	2	0	86	7	53	45
5.	78*	289	409	PRIPOL	44	92	2	0	85	5	55	14



TMGT
CWO
6/11/94

UNKNOWN #,22

RT = 29.23 AREA = 227178.0 RESPONSE FACTOR IS 68.00

DATA FILE: >B4112::D7 DATE/TIME: 5/26/94 13:44 MASS SPEC # 1

1.	Benzo[k]fluoranthene	252	C20H12
2.	Benzene, 1,2,3,5-tetrachloro-4,6-difluoro-	250	C6C14F2
3.	Benzo[k]fluoranthene	252	C20H12
4.	1,4,6-Benzo[b]triazaphenothiazine	252	C13H8N4S
5.	Benzo[a]pyrene	252	C20H12

Sample file: >B4112 Spectrum #: 2327
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	64*	207089	88408	"BIGDB	66	57	2	0	85	24	28	45
2.	60*	1198567	88524	"BIGDB	24	128	3	0	100	13	30	12
3.	51*	292	412	PRIPOL	50	85	2	0	73	22	22	23
4.	48*	74396513	88512	"BIGDB	39	40	2	0	73	24	17	19
5.	47*	290	410	PRIPOL	70	60	1	0	65	52	11	69

HO 5/27/94

QUANT REPORT

Operator ID: HAIYAN
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Misc:

Quant Rev: 7
Quant Time: 940526 15:55
Injected at: 940524 14:39
Dilution Factor: 1.00000
Instrument ID: MSD100
STL# 3

OK

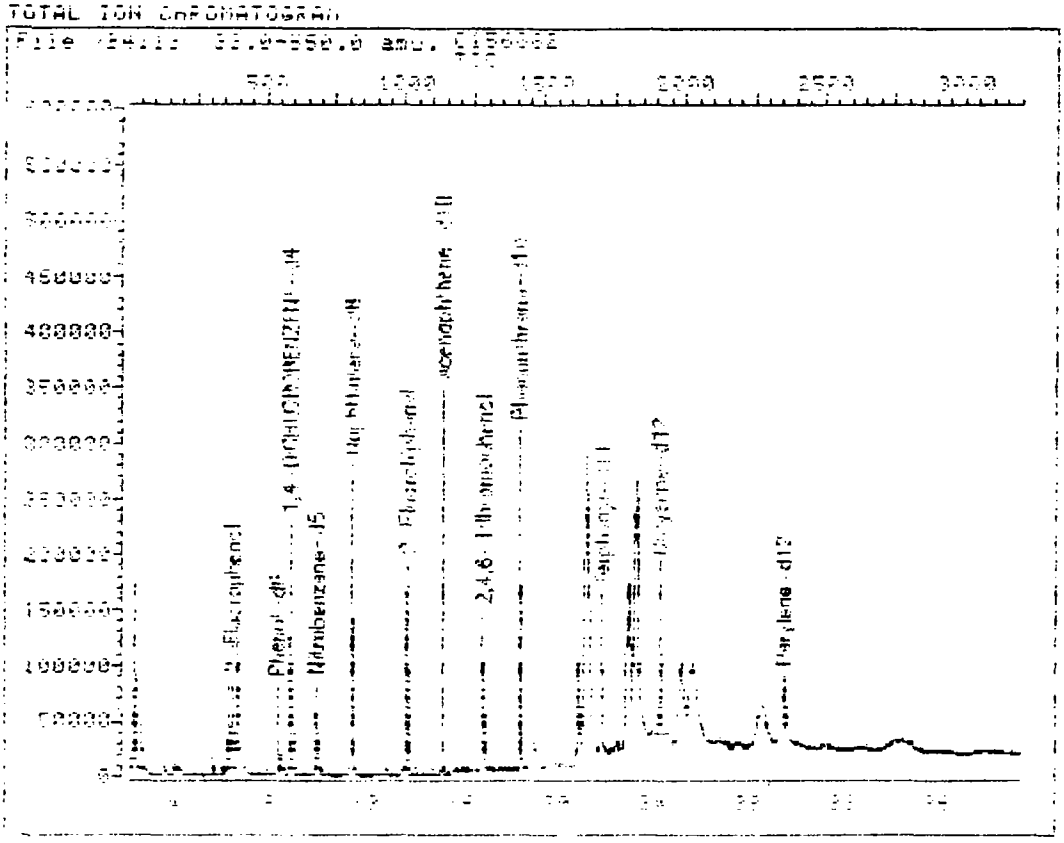
Qu File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #100
Last Calibration: 940324 09:57
Last Qual Time: 940526 11:03

	Compound	R.T.	Quan	Area	Conc	Units		Q
[illegible]	*1,4-DICHLOROBENZENE-d4	9.76	150.0	67580	40.00	UG/L		95
4)	2-Fluorophenol	6.34	112.0	59471	30.34	UG/L		95
10)	Phenol-d6	9.07	99.0	79016	31.00	UG/L		94
[illegible]	*Naphthalene-d8	11.39	136.0	273915	40.00	UG/L		94
20)	Nitrobenzene-d5	9.90	92.0	33710	21.19	UG/L		95
24)	Benzoic acid	11.19	100.0	149	1.74	UG/L	Bm	90
[illegible]	Naphthalene	11.42	100.0	3594	[illegible]	UG/L	↓	100
[illegible]	*Acenaphthene-d10	15.14	164.0	178040	40.00	UG/L		100
[illegible]	2-Fluorobiphenyl	13.70	172.0	100409	25.94	UG/L		94
[illegible]	Diethylphthalate	14.15	149.0	4094	[illegible]	UG/L	Bm	100
[illegible]	2,4,6-Tribromophenol	14.99	329.0	51409	28.45	UG/L		100
57)	*Phenanthrene-d10	18.34	198.0	309224	40.00	UG/L		100
[illegible]	Dibutylphthalate	19.48	149.0	5351	[illegible]	UG/L	Bm	93
[illegible]	*Chrysene-d12	24.27	240.0	180493	40.00	UG/L		100
[illegible]	Bis(2-Ethylhexyl)phthalate	24.70	149.0	107449	36.93	UG/L		97
[illegible]	Terphenyl-d14	21.85	244.0	113449	20.89	UG/L		100
[illegible]	*Perylene-d12	29.49	264.0	135013	40.00	UG/L		100

* Compound is ISTD

001309

TOTAL ION CHROMATOGRAM



Data File: [illegible]
Name: [illegible]
Misc:

Quant Output File: [illegible]
Instrument ID: [illegible]

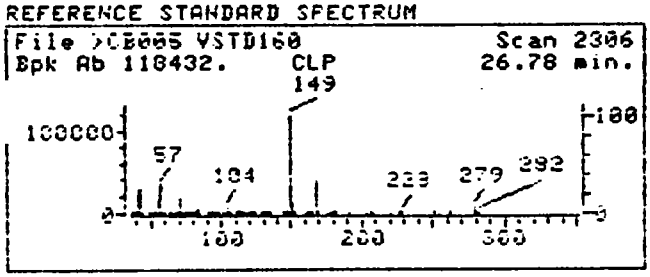
BTL# 3

Lab File: [illegible]
Table: [illegible]
Last Calibration: [illegible]

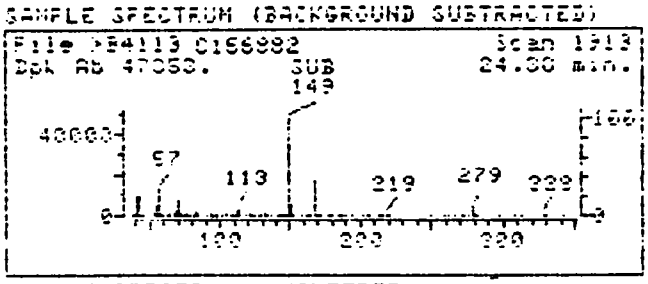
Last Oral Time: [illegible]

Operator ID: [illegible]
Quant Time: [illegible]
Injected at: [illegible]

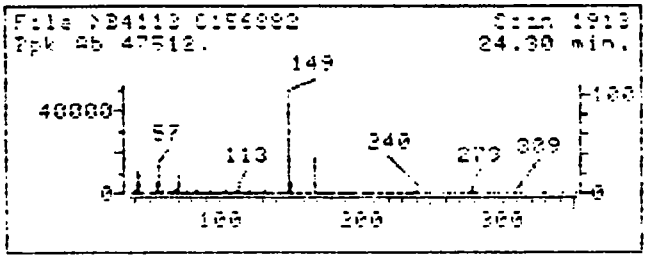
REFERENCE STANDARD SPECTRUM

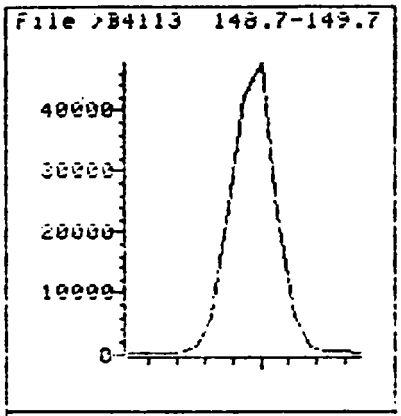


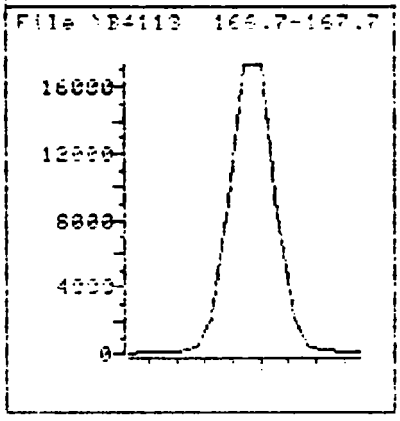
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >B4113::D7
Name: C156882
Misc:
Quant Time: 940526 15:55
Injected at: 940526 14:38
Last Ocal Time: 940526 11:23

Quant Output File: ^B4113::D5
Instrument ID: MSD102
BTL# 3
Quant ID File: IDSV01::D6
Last Calibration: 940324 08:57

Compound No : 91
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 1913
Retention Time: 24.30 min.
Quant Ion : 149.0
Area : 107448
Concentration : 36.23 UG/L
q-value : 97

HC 5/31/94.

001401

3	3.56	45	48	55	41722	108329	70983	2.36	.722
4	3.94	164	167	174	93836	74175	54589	1.82	.555
5	4.10	179	181	189	16756	67449	37734*	1.26	.384
6	5.54	304	307	316	17381	48009	46303	1.54	.471
7	6.16	355	358	368	85401	208398	188410	6.28	1.915
8	6.60	392	396	404	50840	196796	177492	5.91	1.804
9	6.87	412	414	426	17607	91872	46391	1.55	.472
10	8.40	554	558	564	16998	70887	58378	1.98	.590
11	9.01	598	603	609	34903	94640	64732	2.16	.658
12	10.49	1415	1418	1427	83174	125899	94680	2.89	.881
13	10.90	1440	1457	1467	41080	562144	404395	13.47	4.110
14	11.71	1604	1608	1611	17314	95818	40959	1.34	.415
15	12.87	1615	1622	1633	76407	499850	973640	9.11	2.791
16	13.[illegible]	1641	1650	1658	97414	[illegible]	[illegible]	97.19	29.459
17	15.44	1751	1755	1759	15714	616370	61670	2.05	.626
18	15.91	1784	1791	1797	114814	925994	577574	19.04	5.871
19	16.97	1797	1800	1810	140879	1150000	979990*	32.94	8.597
20	17.26	1810	1815	1857	996440	4073641	3000914*	100.00	30.619
21	18.14	1969	1984	1979	[illegible]	999999	1273440. / 444170	15.47	4.719
22	19.87	2121	2144	2155	14993	337794	56443	1.99	.574

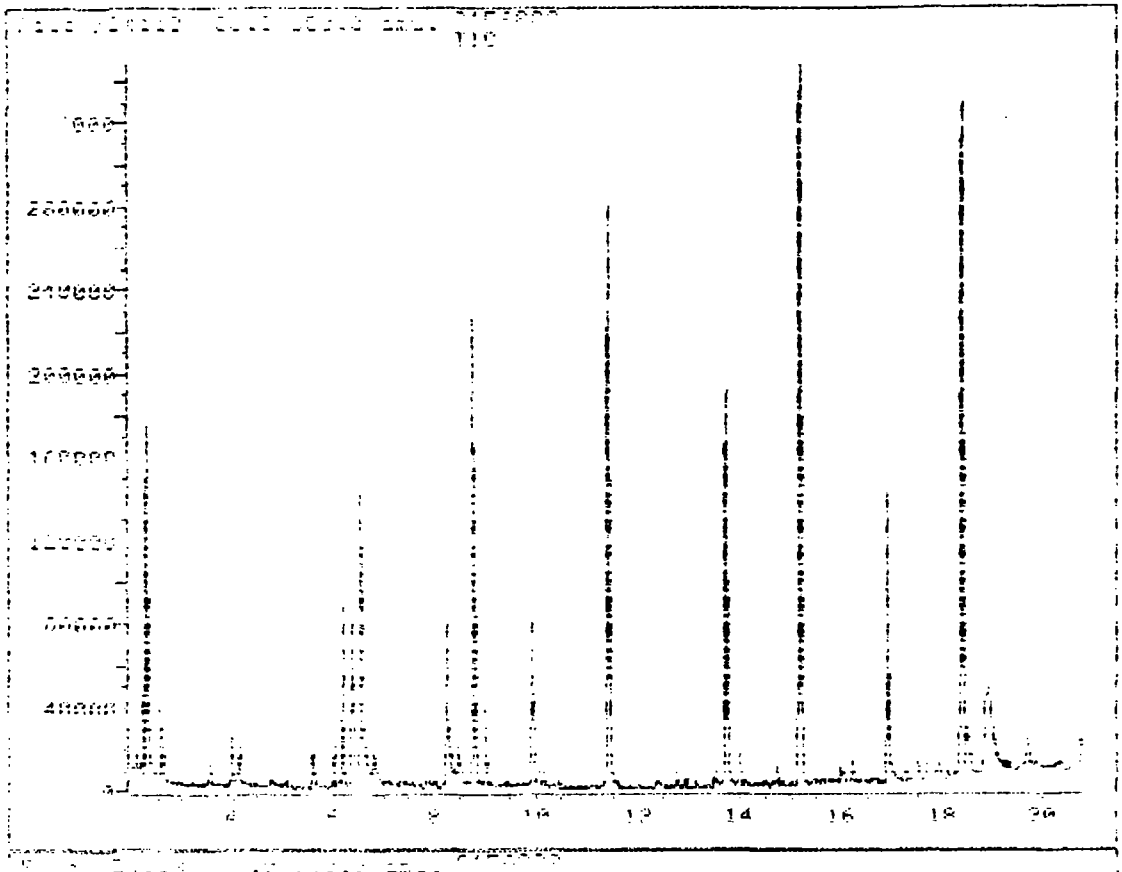
Sum of [illegible] 3037940

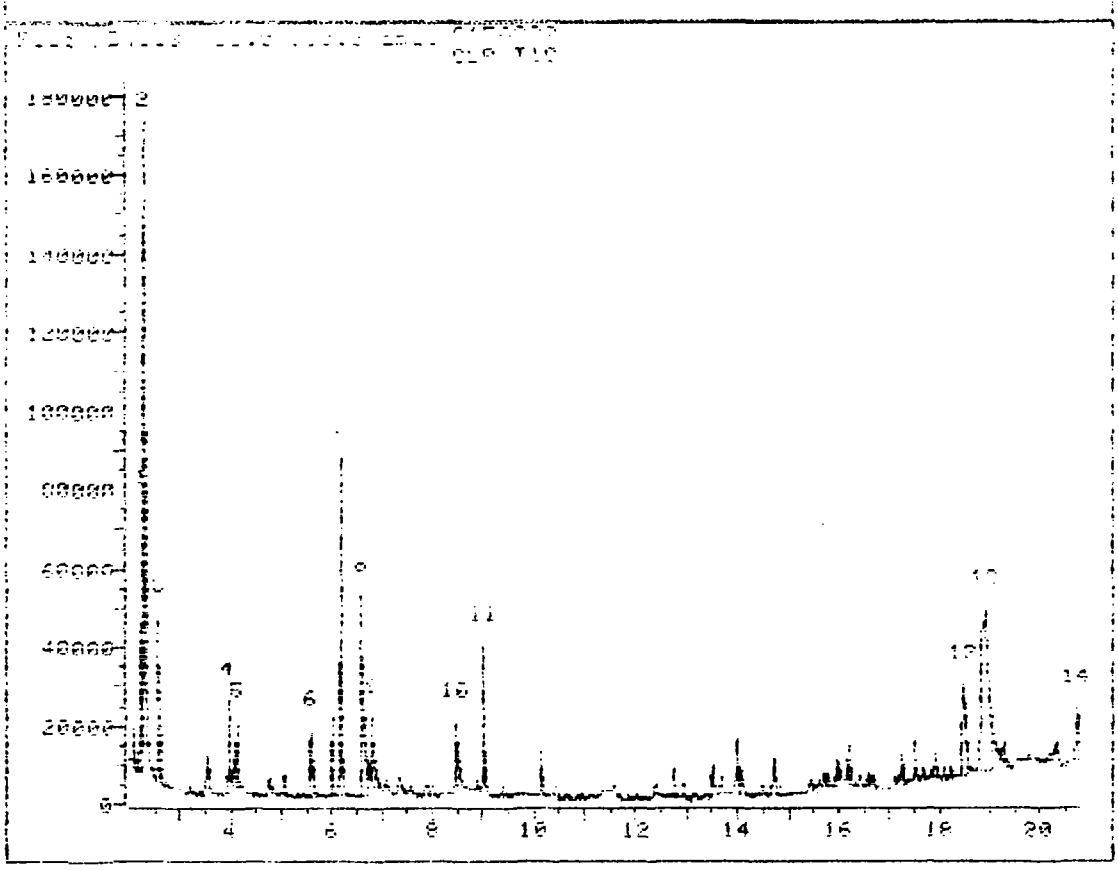
Summary of Volumes from Library, Search and Quantification

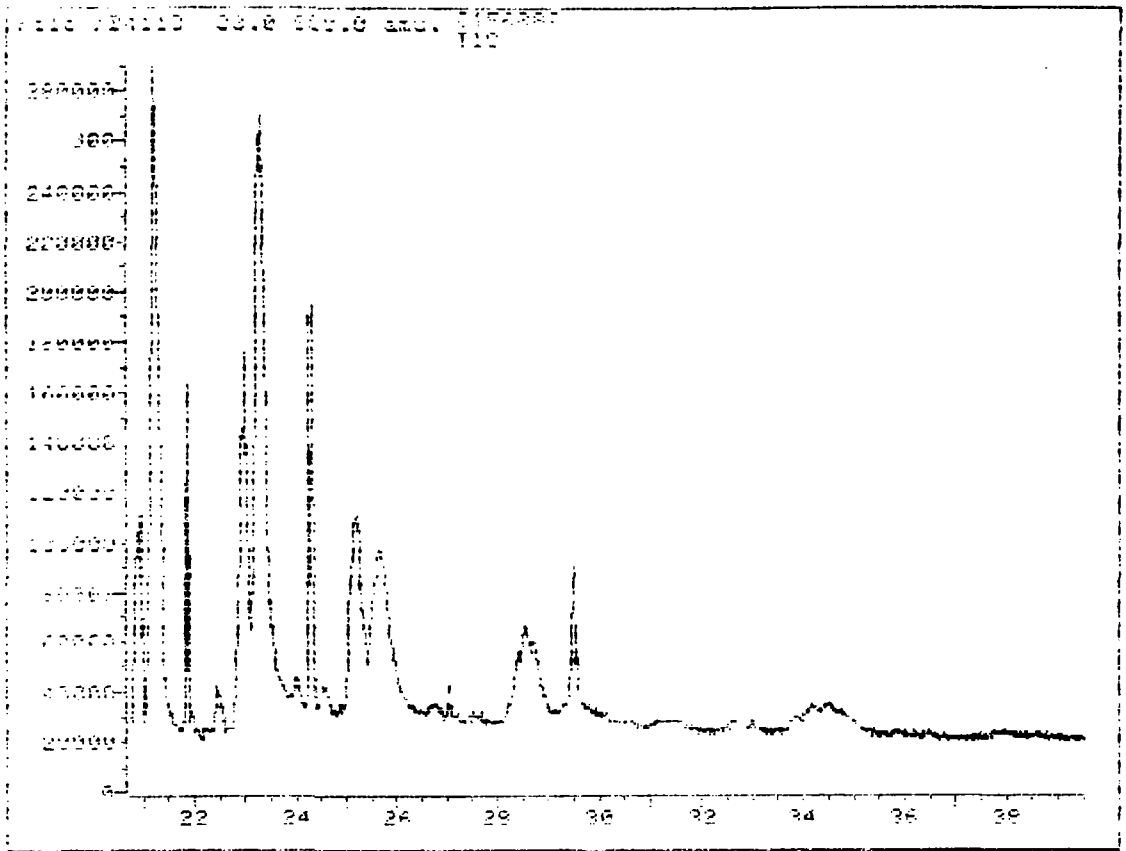
Component	Concentration	Area	Retention Time	Volume Method	Volume Manual
	20.0	27499	8.34	0.41	10.08
2	20.0	492142	11.39	10.80	12.97
3	20.0	924574	15.16	13.97	14.74
4	20.0	769101	17.34	16.71	23.23
5	20.0	499999	24.07	21.11	26.26
6	20.0	317983	29.40	27.87	30.50

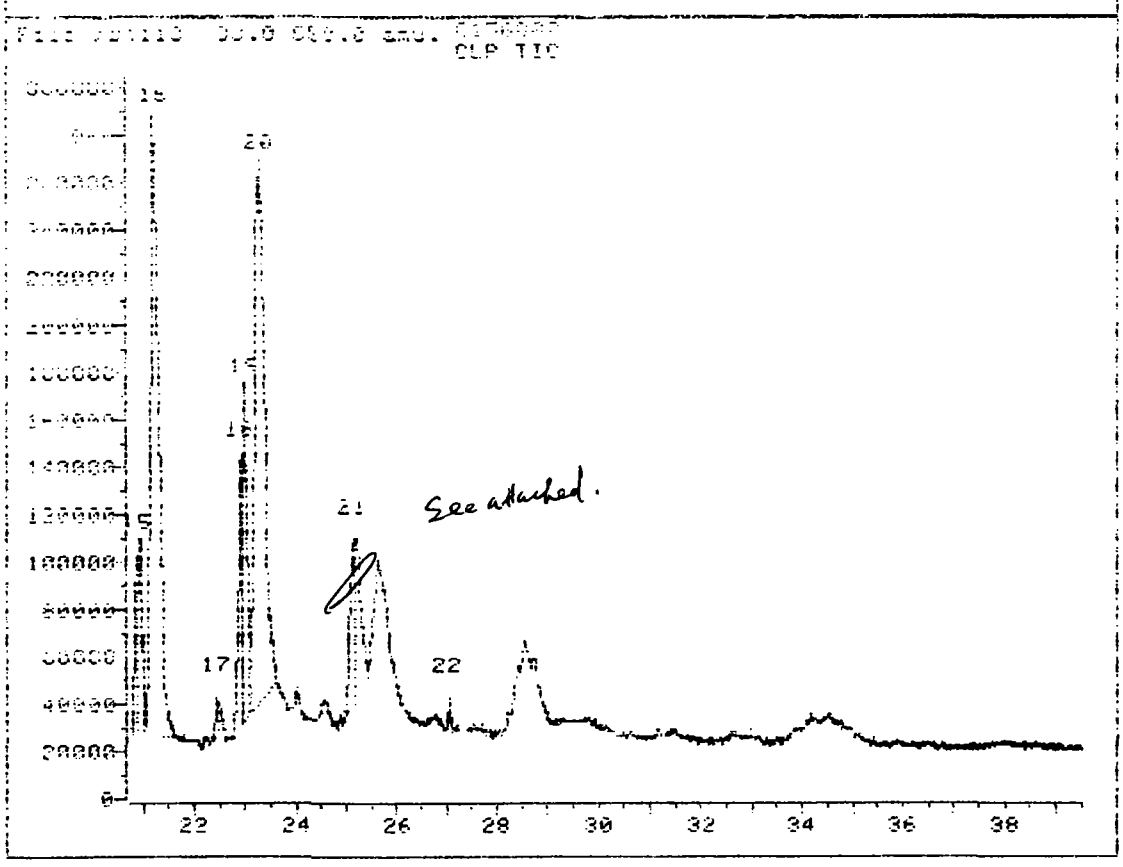
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

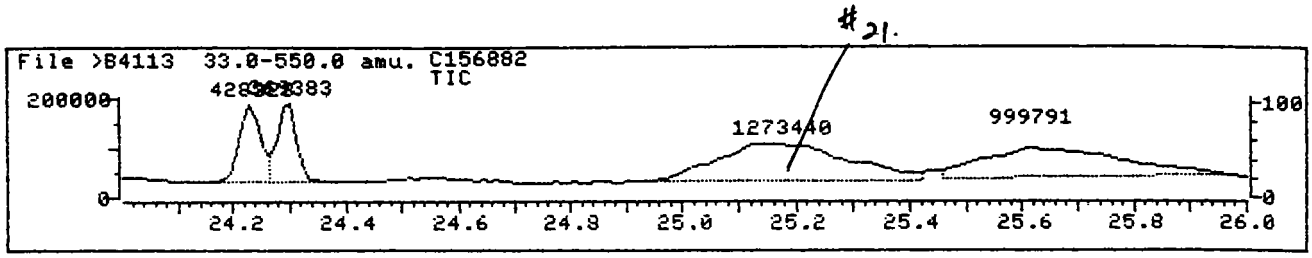
9:19 PM THU., 9 JUNE, 1994

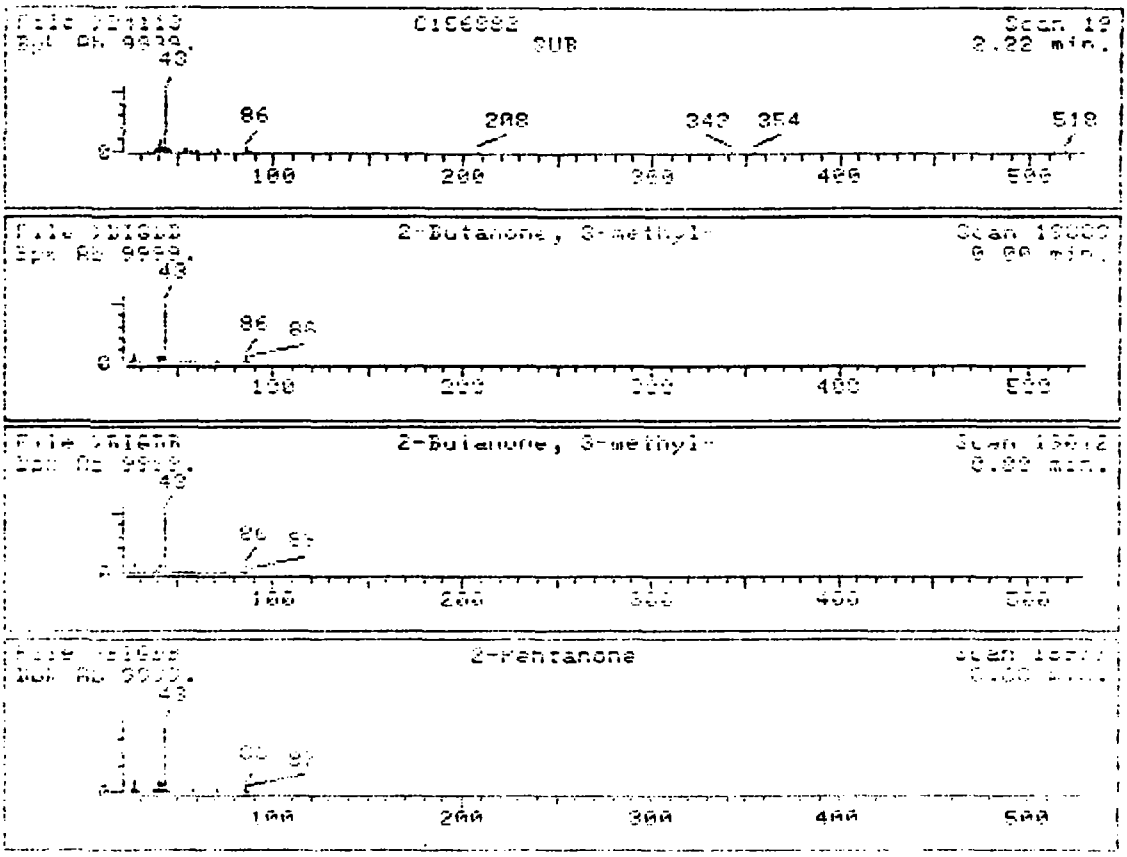

TIC
4
6
8
10
12
14
16
18
20


CLP TIC
2
4
6
9
10
11
12
13
14
4
6
8
10
12
14
16
18
20


TIC
22
24
26
28
30
32
34
36
38


CLP TIC
20
21
22
See attached.
22
24
26
28
30
32
34
36
38


#21.
File >B4113 33.0-550.0 amu. C156882
TIC
200000
0
1273440
999791
100
0
24.2
24.4
24.6
24.8
25.0
25.2
25.4
25.6
25.8
26.0



Bor HQ 6/3/94.

[illegible]

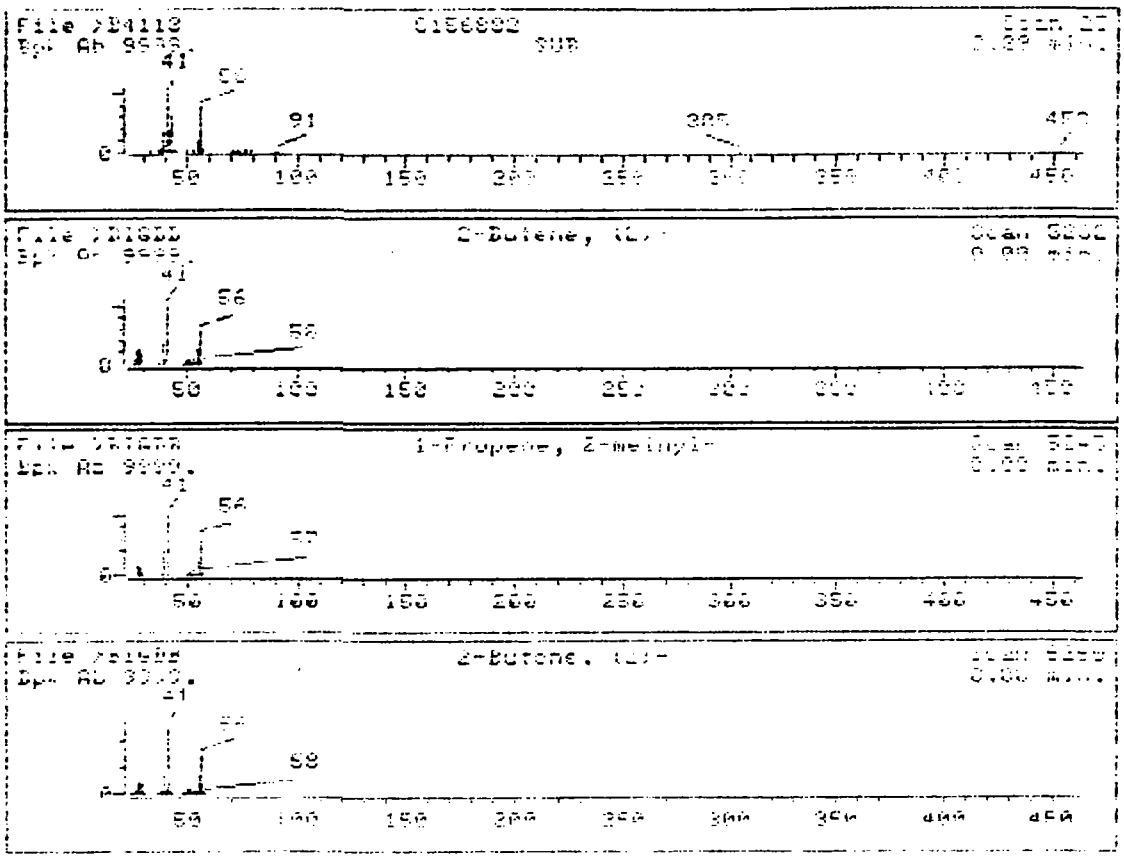
[illegible]

[illegible]

1. 2-Butanone, 3-methyl- [illegible]
2. 2-Butanone, 3-methyl- 94 [illegible]
3. 2-Pentanone [illegible]

Sample file: [illegible] Spectrum #: 19
Search speed: 1 Filling option: N No. of ion ranges searched: 39

	Prob.	CAS #	CON #	ROOT	K	DK	#CLR	TILT	%	CON	C_I	R_IU
1.	34*	563804	19009	"BIGDB	29	37	0	0	52	38	14	21
2.	26*	563804	19012	"BIGDB	21	37	1	0	39	45	9	14
3.	20*	107879	18977	"BIGDB	24	37	1	0	35	54	5	14



HQ 6/2/94.

UNKNOWN # 2

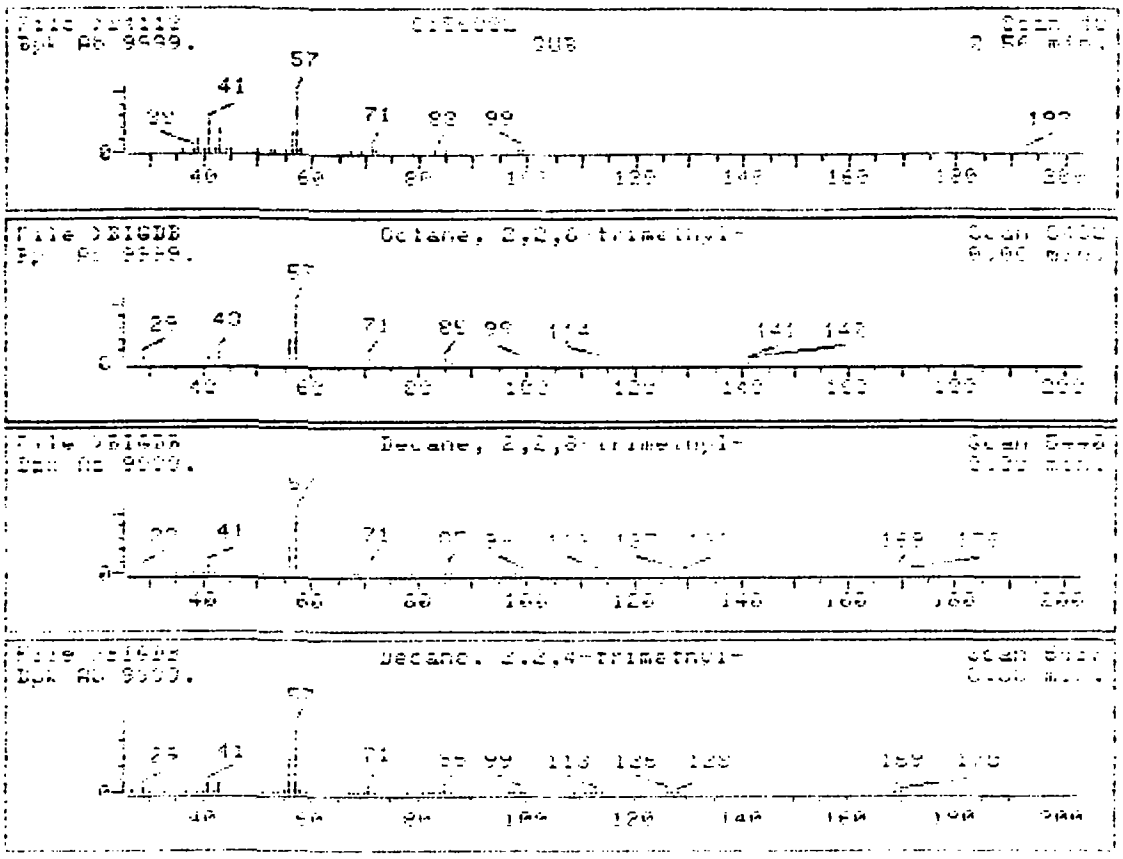
[illegible]

DATA FILE: >B4113::D2 DATE/TIME: [illegible] MASS SPEC # [illegible]

1. 2-Butene, (Z)- 56 C4H8
2. 1-Propene, 2-methyl- 56 C4H8
3. 2-Butene, (Z)- 56 C4H8
4. Cyclobutane 56 C4H8
5. 1-Propene, 2-methyl- 56 C4H8

Sample file: >B4113 Spectrum #: 25
Search speed: 1 Tilting option: N No. of ion ranges searched: 37

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	43*	624646	5252	"BIGDB	30	46	3	0	100	21	17	14
2.	42*	115117	5245	"BIGDB	25	39	3	0	100	21	17	13
3.	42*	590181	5250	"BIGDB	27	51	3	0	100	25	17	13
4.	37*	287230	5248	"BIGDB	29	55	2	0	83	27	14	14
5.	20*	115117	5244	"BIGDB	32	50	2	0	73	54	5	16



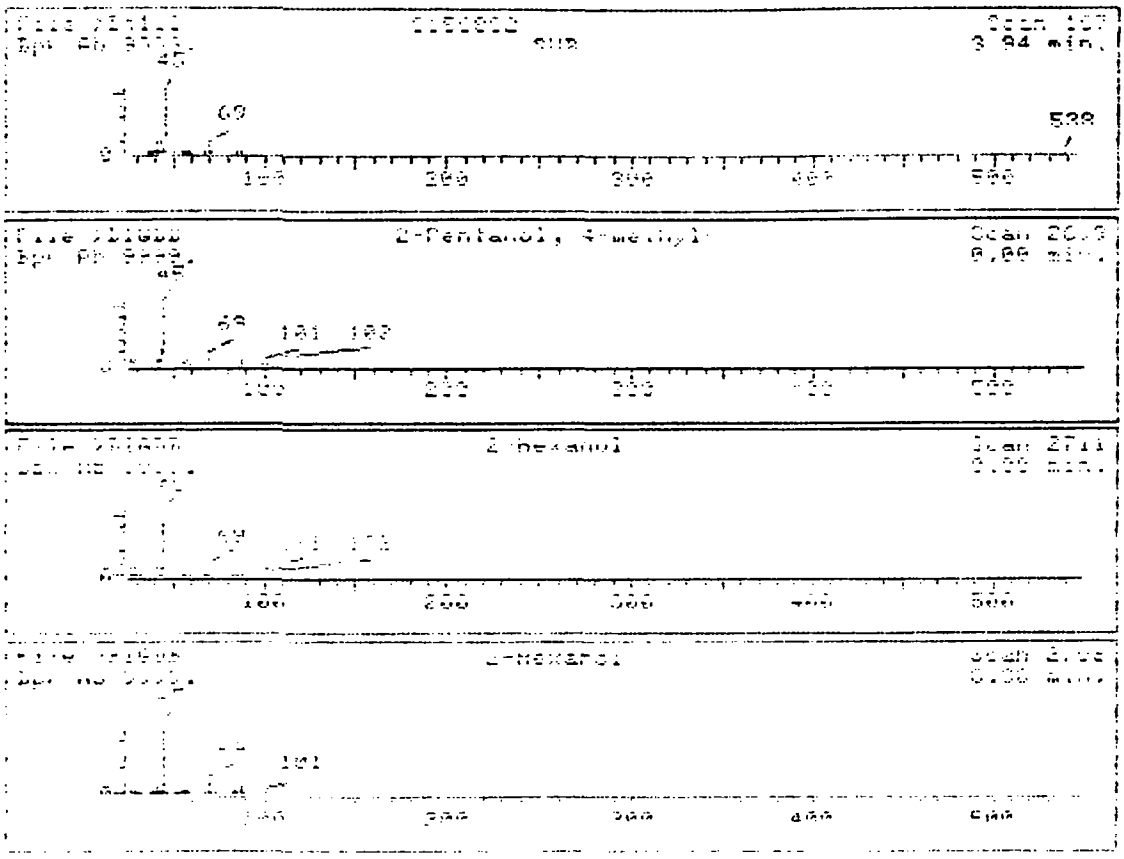
Bor HQ 6/3/94.

DATA FILE: 184113::07 DATE/TIME: 5/26/94 14:38 MASS SPEC # 1

1.	Octane, 2,2,6-trimethyl-	156 C11H24
2.	Decane, 2,2,8-trimethyl-	184 C13H28
3.	Decane, 2,2,4-trimethyl-	184 C13H28
4.	Decane, 2,2,5-trimethyl-	184 C13H28
5.	Methane, isocyanato-	57 C2H3NO

Sample file: 184113 Spectrum #: 48
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IU
1.	42	62016288	5432	"BIGDB	39	37	2	0	76	24	12	13
2.	37	62238011	5440	"BIGDB	43	43	2	0	72	30	14	14
3.	30	62237983	5437	"BIGDB	38	47	2	0	67	31	12	13
4.	29	62237961	5435	"BIGDB	38	48	2	0	71	31	12	12
.	28*	624839	5263	"BIGDB	25	39	2	0	80	40	10	14



UNKNOWN # 4

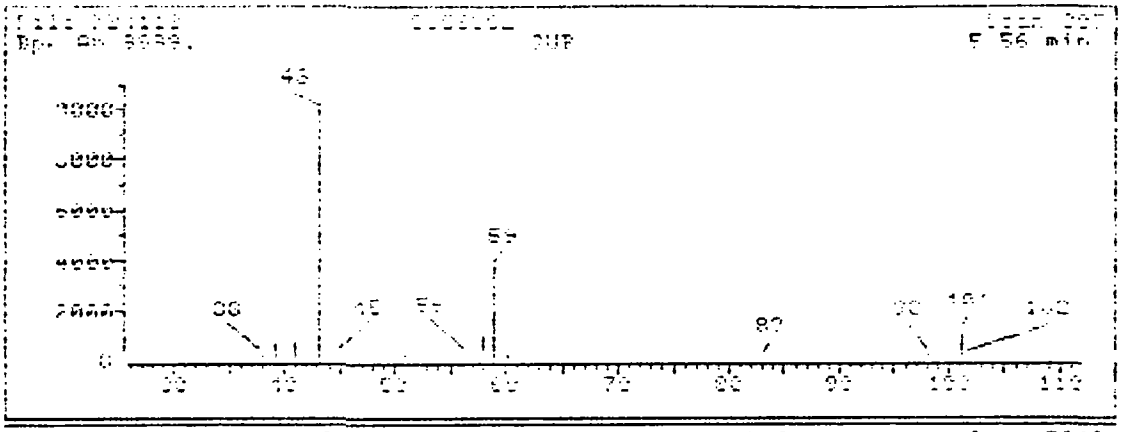
[illegible] 1302 HC 6/3/94.

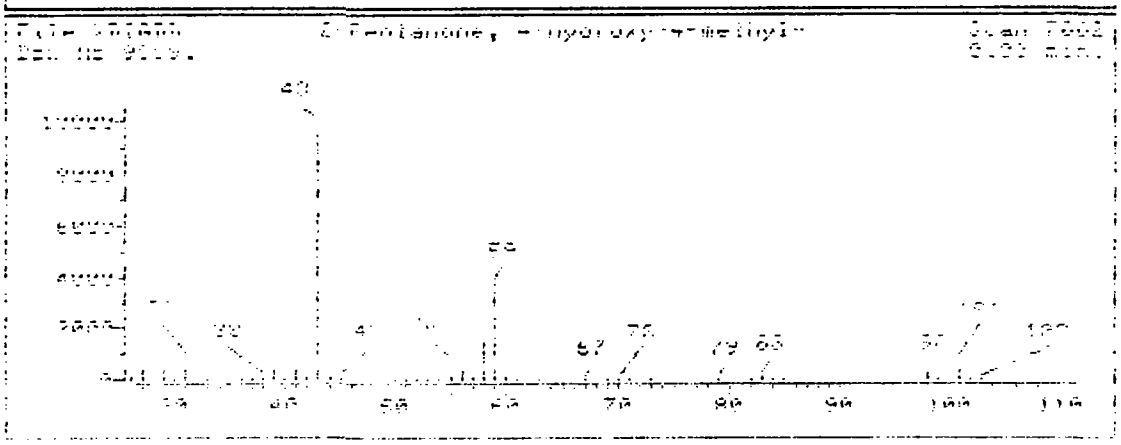
[illegible] DATE/TIME: [illegible] MASS SPEC # 1

1. [illegible] 102 C6H14O
2. 2-hexanol 102 C6H14O
3. 2-Hexanol 102 C6H14O
4. 2-Pentanol, 4-methyl- 102 C6H14O
5. 2-Hexanol 102 C6H14O

Sample file: 184117 Spectrum #: 167
Search speed: 1 Tilting option: N No. of ion ranges searched: 30

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	76	108112	2699	"BIGDB	60	21	1	0	74	8	45	27
2.	70	626937	2711	"BIGDB	40	44	2	0	90	10	42	14
3.	70	626937	2708	"BIGDB	38	43	2	0	68	10	42	13
4.	70	108112	2697	"BIGDB	53	27	2	0	81	8	42	18
5.	70	626937	2590	"BIGDB	43	32	2	0	100	10	42	14





UNKNOWN # 6

[illegible] RESPONSE FACTOR IS [illegible]

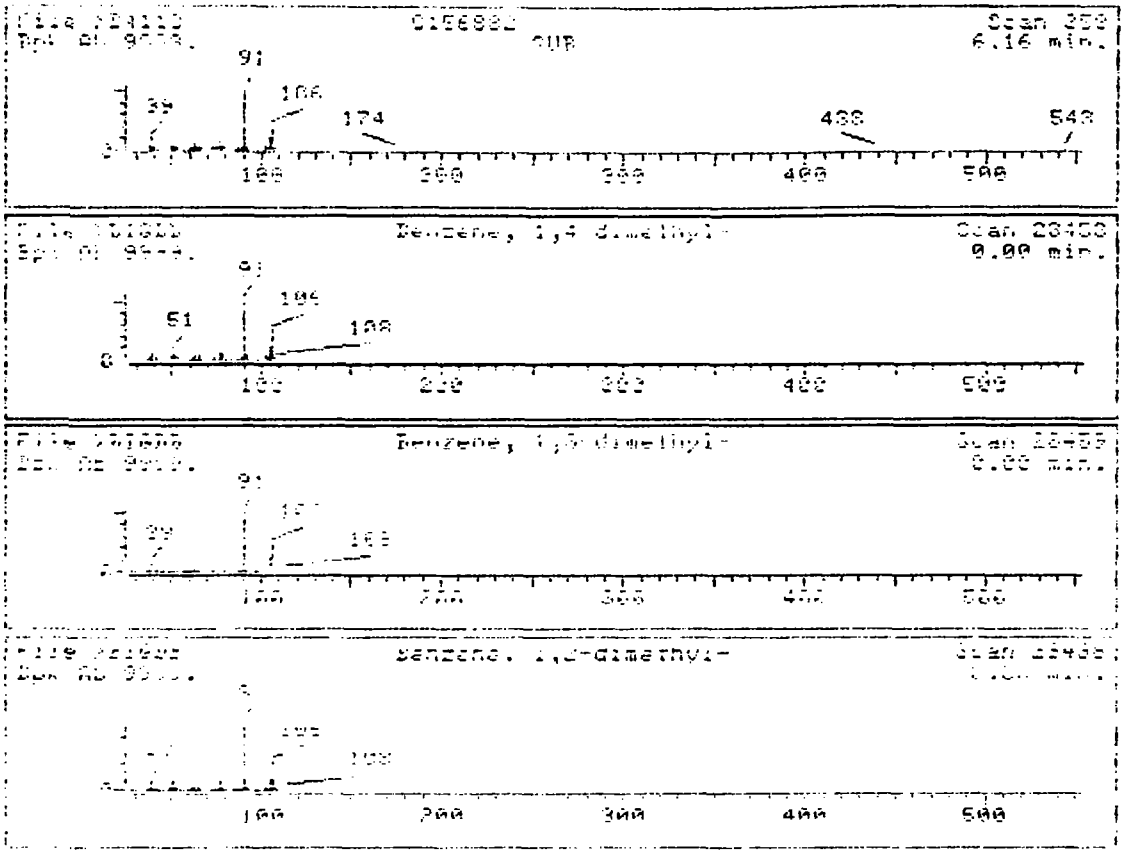
Bor HQ 6/3/94

DATA [illegible] : [illegible] DATE/TIME: [illegible] MASS SPEC # 1

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2

Sample file: [illegible] Spectrum #: [illegible]
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	OK	#CLG	TILT	%	CON	C_I	R_IU
1.	26	[illegible]	7062	"BIGDB	36	40	2	0	59	37	10	12



HO 6/3/94.

[illegible]

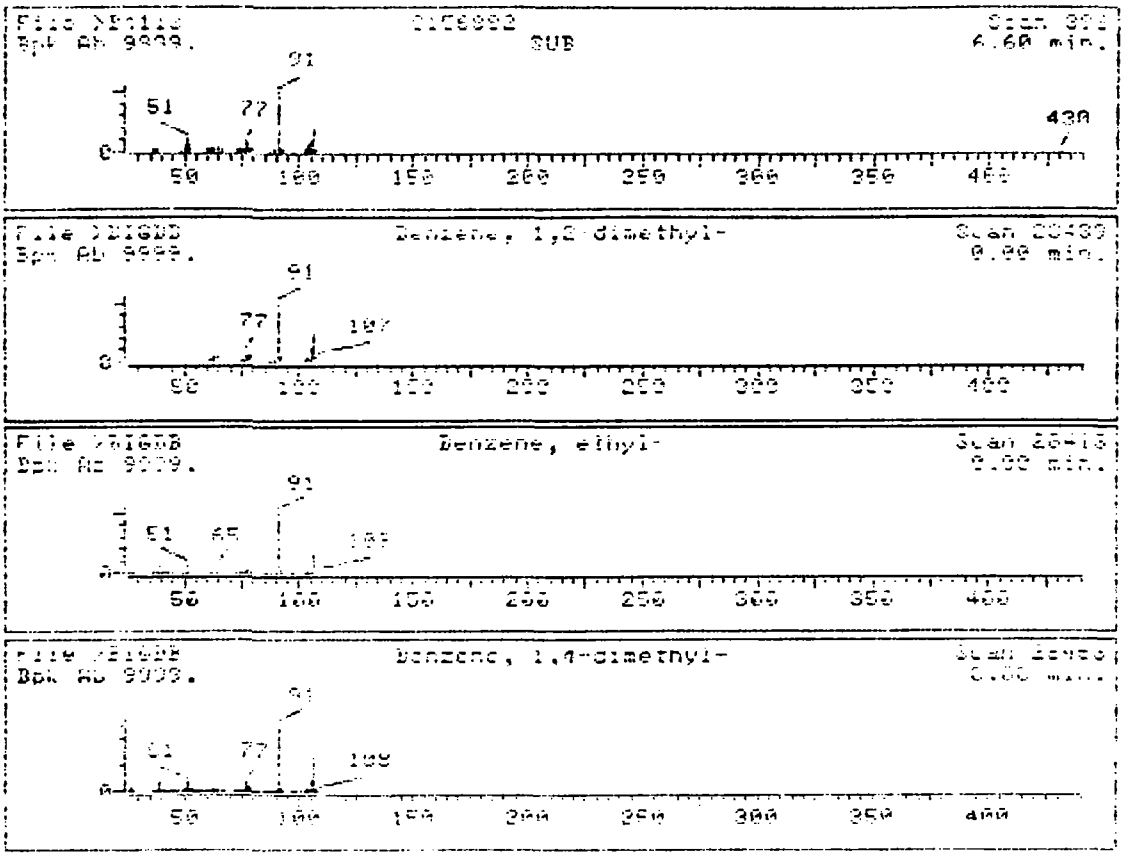
[illegible]

[illegible]

1. Benzene, 1,4-dimethyl- 106 C8H10
2. Benzene, 1,3-dimethyl- 106 C8H10
3. Benzene, 1,2-dimethyl- 106 C8H10
4. XYLENE 106 C8H10
5. Benzene, 1,2-dimethyl- 106 C8H10

Sample file: >B4113 Spectrum #: 358
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CUN #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	106423	28453	"BIGDB	90	0	0	0	86	4	72	97
2.	97*	108383	28459	"BIGDB	90	0	0	0	89	4	72	97
3.	97*	95476	28438	"BIGDB	89	0	0	0	96	4	72	97
4.	97*	1330207	28467	"BIGDB	89	1	0	0	73	5	72	97
.	97*	95476	28441	"BIGDB	66	6	0	0	74	10	68	97



HO 6/3/94.

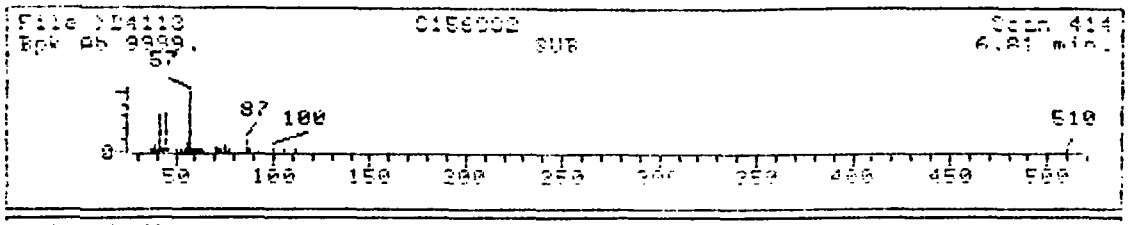
UNKNOWN # 8

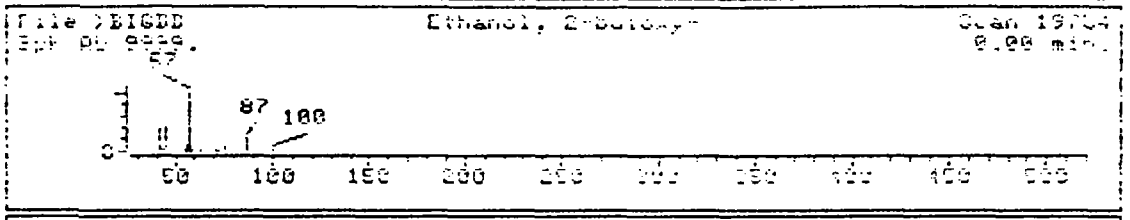
DATA FILE: [illegible] DATE/TIME: 5/26/94 14:39 MASS SPEC # 1

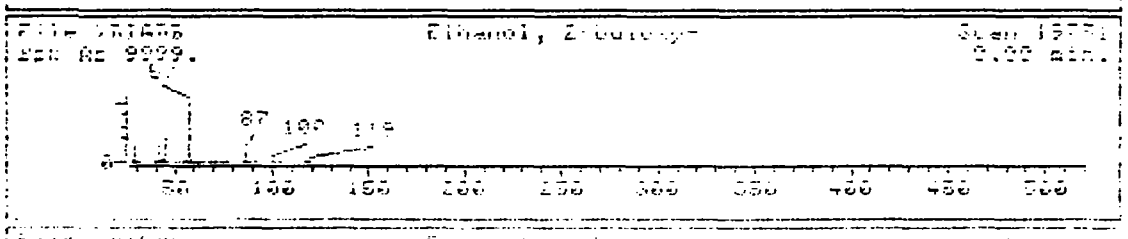
1. Benzene, 1,2-dimethyl- 106 C8H10
2. Benzene, ethyl- 106 C8H10
3. Benzene, 1,4-dimethyl- 106 C8H10
4. XYLENE 106 C8H10
5. Benzene, 1,3-dimethyl- 106 C8H10

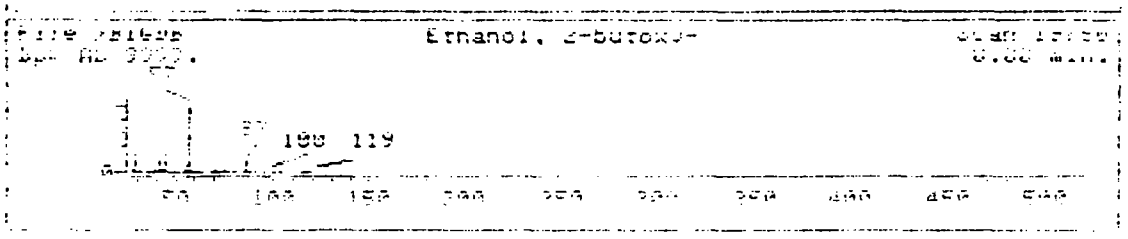
Sample file: [illegible]94113 Spectrum #: 394
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	9_IW
1.	77*	95476	28439	"BIGDB	75	21	1	0	69	23	41	73
2.	73*	100414	28413	"BIGDB	50	32	0	0	83	22	32	65
3.	73*	106423	28453	"BIGDB	50	40	0	0	71	23	32	60
4.	71*	1330207	28467	"BIGDB	55	35	0	0	70	27	29	66
5.	71*	108383	28461	"BIGDB	51	39	0	0	67	26	29	61









[illegible] # [illegible]

[illegible] 4.81 [illegible] [illegible] RESPONSE FACTOR IS [illegible]

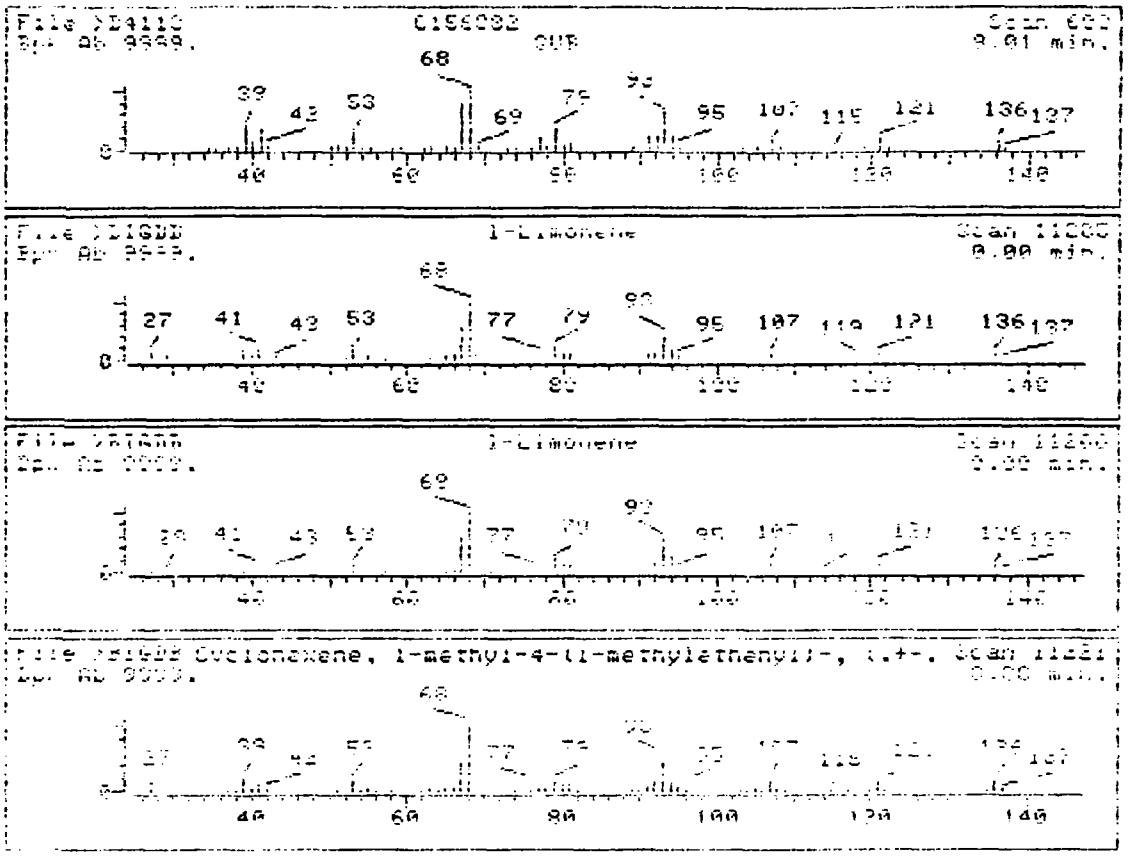
Bor HG 6/3/94.

[illegible] : [illegible] [illegible] [illegible] 14:39 [illegible] SPEC # [illegible]

1.	Ethanol, 2-butoxy-	118 C4H10O2
2.	Ethanol, 2-butoxy-	118 C4H10O2
3.	Ethanol, 2-butoxy-	118 C4H10O2
4.	Butane, 1,1'-oxybis-	130 C8H18O
5.	Butane, 1,1'-oxybis-	130 C8H18O

Sample file: >B4113 Spectrum #: 414
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IU
1.	20	111762	19754	"BIGDB	43	36	2	0	89	8	42	14
2.	52	111762	19751	"BIGDB	49	32	2	0	93	20	20	17
3.	52	111762	19750	"BIGDB	45	41	2	0	100	20	20	15
4.	27	142961	19759	"BIGDB	38	39	2	0	88	36	10	13
5.	26	142961	19939	"BIGDB	36	42	2	0	84	36	10	12



Bm HQ 6/3/94.

UNKNOWN # 11

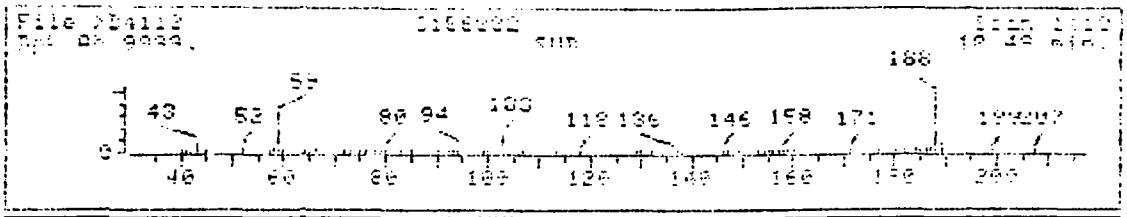
PT = 9.01 AREA = 64770.00 RESPONSE FACTOR IS 5.00

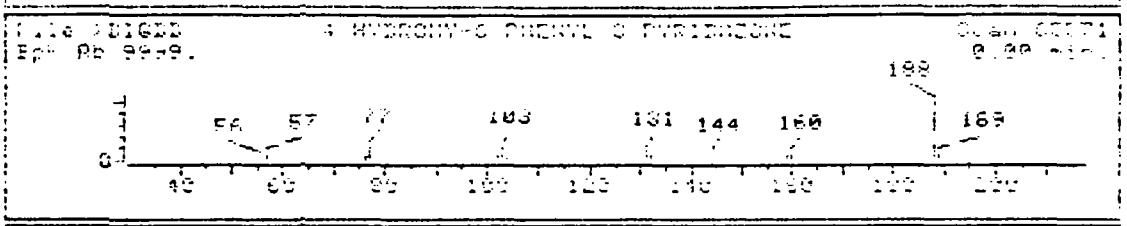
DATA FILE: >B4113::07 DATE/TIME: [illegible] MASS SPEC # 1

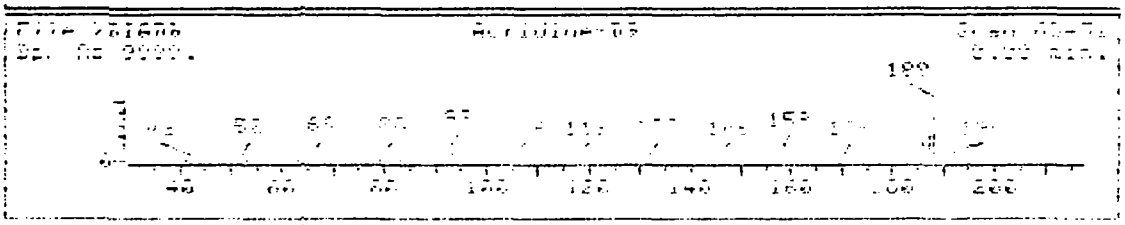
1.	1-Limonene	136 C10H16
2.	1-Limonene	136 C10H16
3.	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (.+-.)-	136 C10H16
4.	Bornylene	136 C10H16
5.	1-Limonene	136 C10H16

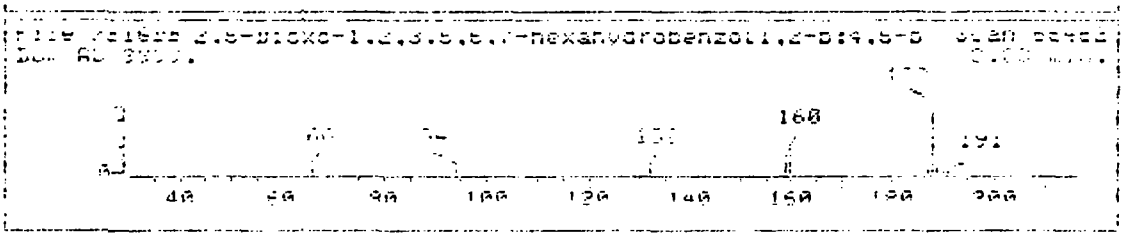
Sample file: >B4113 Spectrum #: 683
Search speed: 1 Tilting option: N No. of ion ranges searched: 38

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	94*	138863	11205	"BIGDB	92	23	1	0	100	1	72	92
2.	94*	138863	11206	"BIGDB	85	31	0	0	90	16	60	95
3.	93*	7705148	11221	"BIGDB	82	31	0	0	85	23	53	94
4.	93*	464175	11211	"BIGDB	77	38	0	0	98	16	60	93
5.	90*	138863	11203	"BIGDB	91	38	0	0	62	38	47	96









Bor HG 6/3/94.

[illegible]

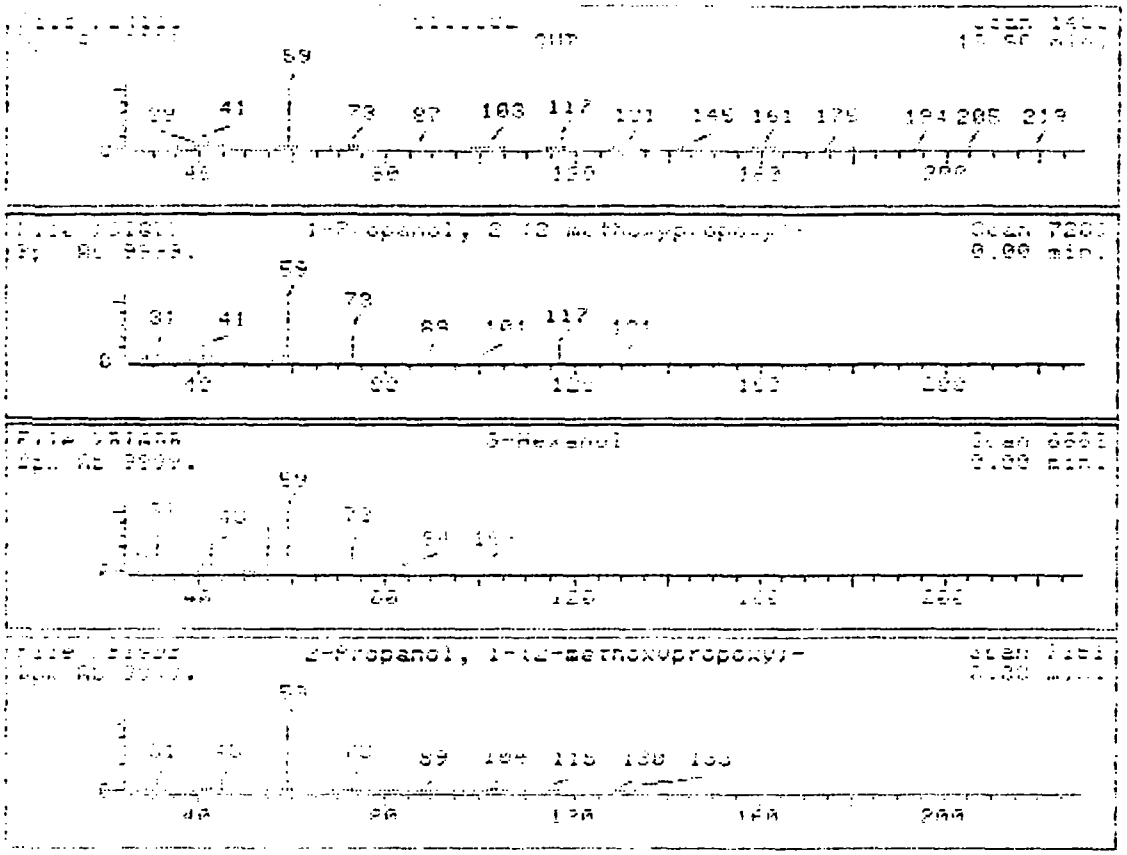
DATA FILE: 194113::[illegible] [illegible] MASS SPEC #

1.	[illegible]	[illegible]
2.	[illegible]	0
3.	[illegible]	[illegible]
4.	Acridine-D9	0
5.	[illegible]	0

Sample File: 194113 Spectrum #: [illegible]

Search Spec #: 1 [illegible] 44

	Prob.	CAS #	[illegible] #	[illegible]	[illegible]	[illegible]	[illegible]	TILT	%	[illegible]	[illegible]	[illegible]
1.	[illegible]	[illegible]	[illegible]	[illegible]	24	95	3	0	100	35	12	12
2.	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	2	0	[illegible]	40	[illegible]	[illegible]
	[illegible]	0	[illegible]	[illegible]	23	41	2	0	94	44	7	13
4.	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	2	0	[illegible]	46	7	14
5.	[illegible]	0	[illegible]	[illegible]	59	59	2	0	59	59	5	35



HR 6/3/94

UNKNOWN # 1

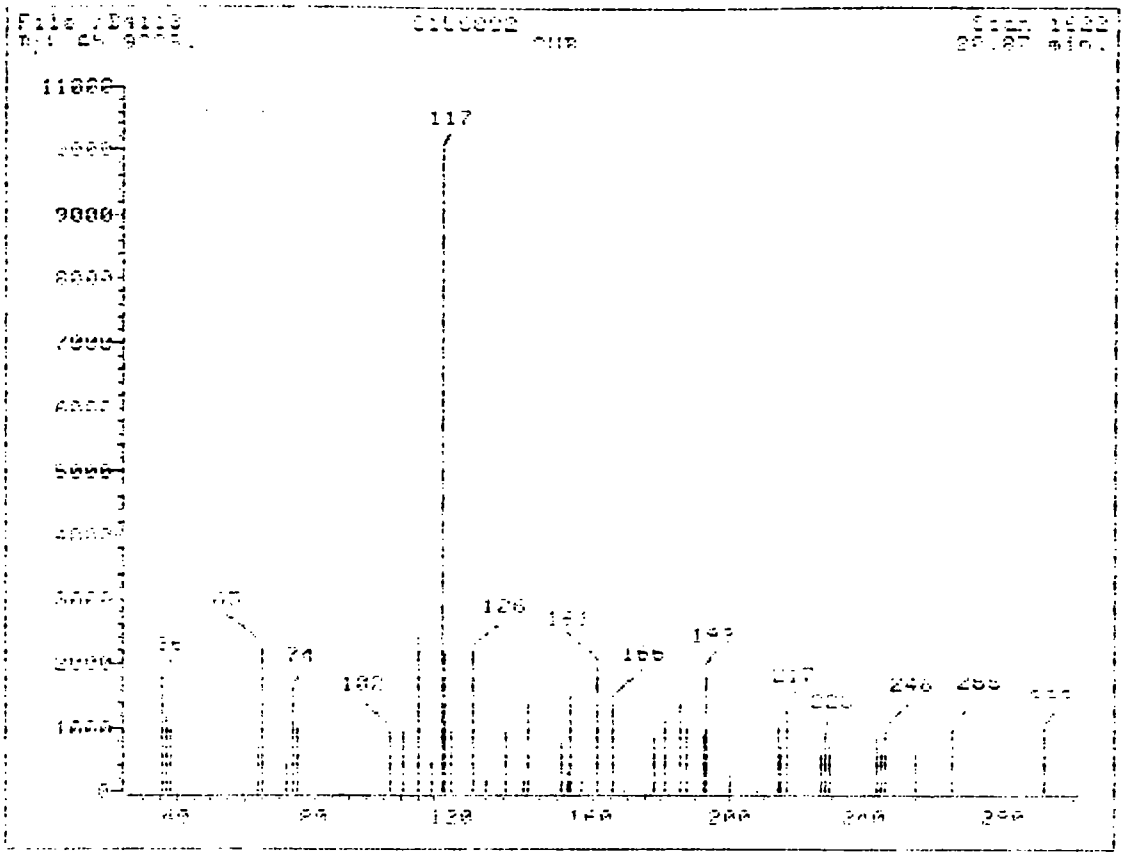
[illegible] AREA - 404[illegible] RESPONSE FACTOR IS [illegible]

DATA FILE: 184113::07 DATE/TIME: [illegible]/94 14:39 MASS SPEC # 1

1.	1-Propanol, 2-(2-methoxypropoxy)-	149 C7H16O3
2.	3-Hexanol	102 C6H14O
3.	2-Propanol, 1-(2-methoxypropoxy)-	148 C7H16O3
4.	Hexanamide	115 C6H13NO
5.	3-Pentanol, 2-methyl-	102 C6H14O

Sample File: 184113 Spectrum #: 1453
Search speed: 1 Tilting option: N No. of ion ranges searched: 39

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60	13588288	7209	"BIGDB	40	48	2	0	77	14	30	12
2.	45*	623370	6882	"BIGDB	33	58	2	0	100	23	17	16
3.	43	13429077	7151	"BIGDB	41	43	1	0	75	25	17	14
4.	43*	628024	6953	"BIGDB	33	48	3	0	100	23	17	14
5.	42*	565673	6874	"BIGDB	30	61	3	0	100	25	17	13



See attached. HG 6/3/94.

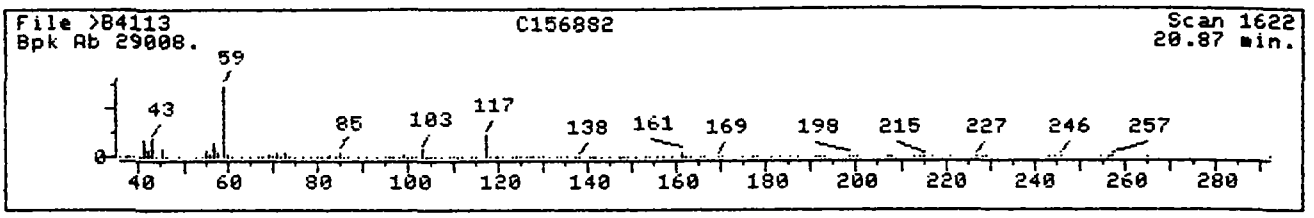
UNKNOWN # 15

[illegible] = 273542.0 RESPONSE FACTOR IS 14.00

DATA FILE: [illegible] DATE/TIME: [illegible] 14:39 MASS SPEC # 1

Sample file: 1B4113 Spectrum #: 1622

No data base entries were retrieved.

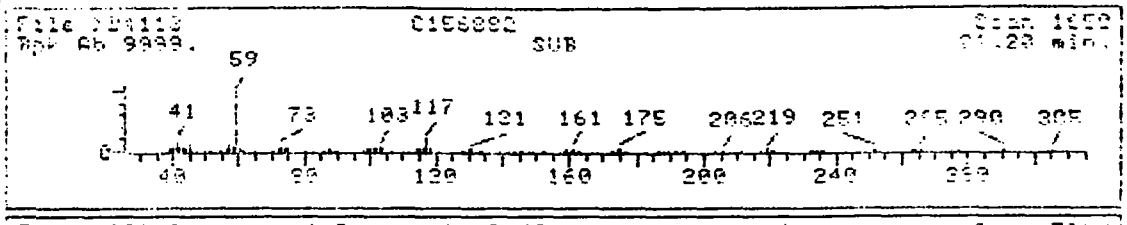


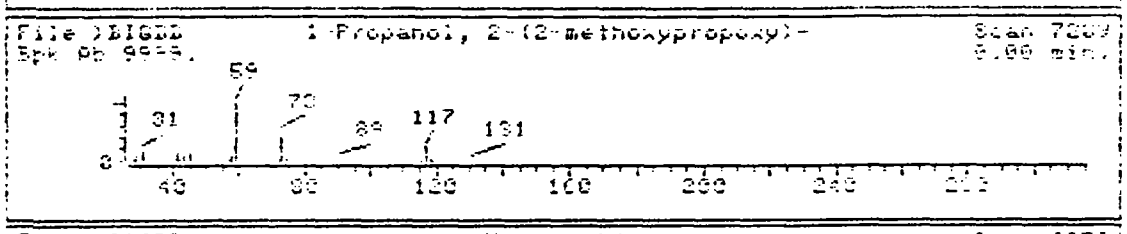
unknown . HG 6/3/94

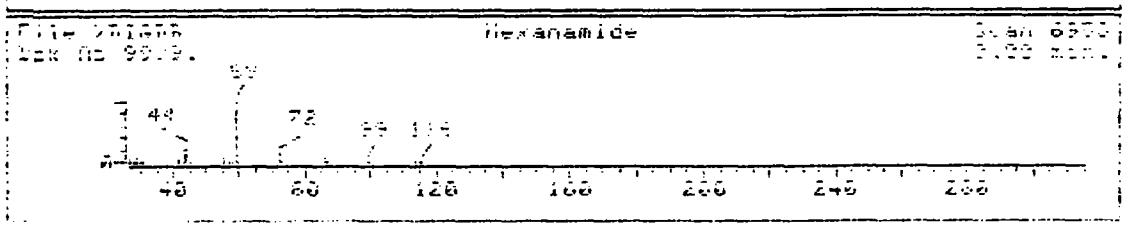
1. 2-Butanol, 3-methoxy- 104 C5H12O2
2. 1-Propanol, 2-(2-methoxypropoxy)- 148 C7H16O3
3. 2,3-Butanediol, 2,3-dimethyl- 118 C6H14O2
4. Hexanamide 115 C6H13NO

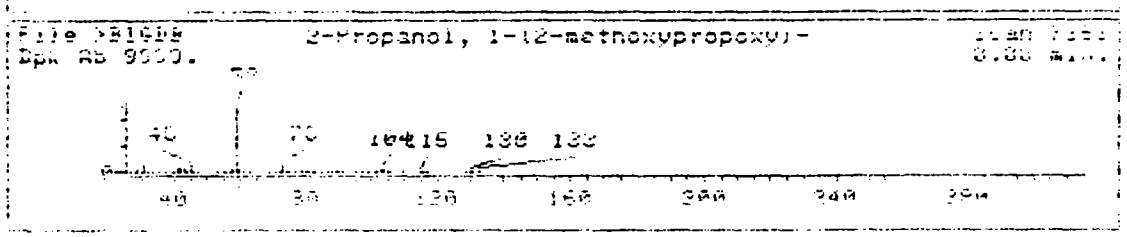
Sample file: >B4113 Spectrum #: 1622
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	53778726	6840	"BIGDB	35	49	0	0	67	38	17	36
2.	36	13588288	7209	"BIGDB	36	52	1	0	78	30	14	13
3.	33	76095	6928	"BIGDB	38	40	0	0	70	36	10	19
4.	32*	628024	6953	"BIGDB	37	44	2	0	100	38	10	18









fea 6/3/94

UNKNOWN # 16

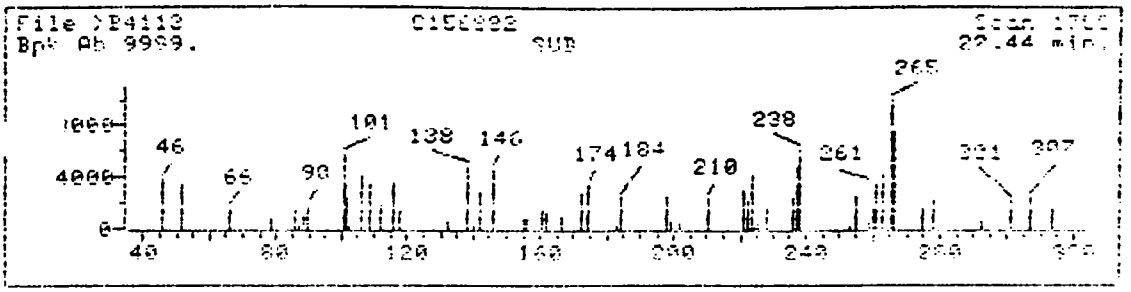
[illegible]

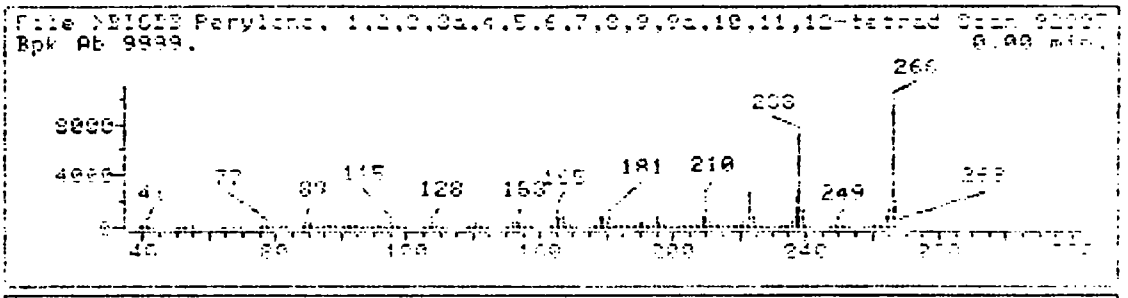
DATA FILE: >B4113::D2 DATE/TIME: 5/26/94 14:39 MASS SPEC # 1

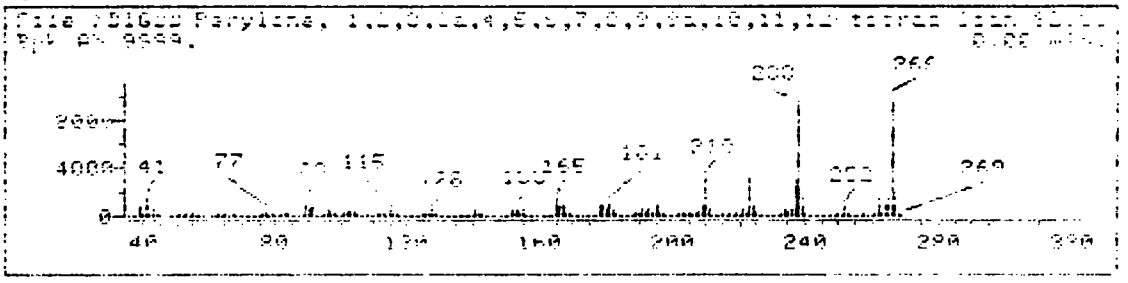
1.	1-Propanol, 2-(2-methoxypropoxy)-	148 C7H16O3
2.	Hexanamide	115 C6H13NO
3.	2-Propanol, 1-(2-methoxypropoxy)-	149 C7H16O3
4.	Pentanal, oxime	101 C5H11NO
5.	Pentanamide	101 C5H11NO

Sample file: >B4113 Spectrum #: 1650
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60	13588288	7209	"BIGDB	44	44	2	0	74	14	30	14
2.	37*	628024	6953	"BIGDB	29	52	3	0	100	30	14	14
3.	36	13429077	7151	"BIGDB	38	46	2	0	100	30	14	13
4.	36*	628795	6960	"BIGDB	28	66	3	0	100	30	14	13
5.	35*	626971	6858	"BIGDB	23	59	3	0	100	30	14	12







UNKNOWN # 1

[illegible] RESPONSE FACTOR [illegible] 5.90

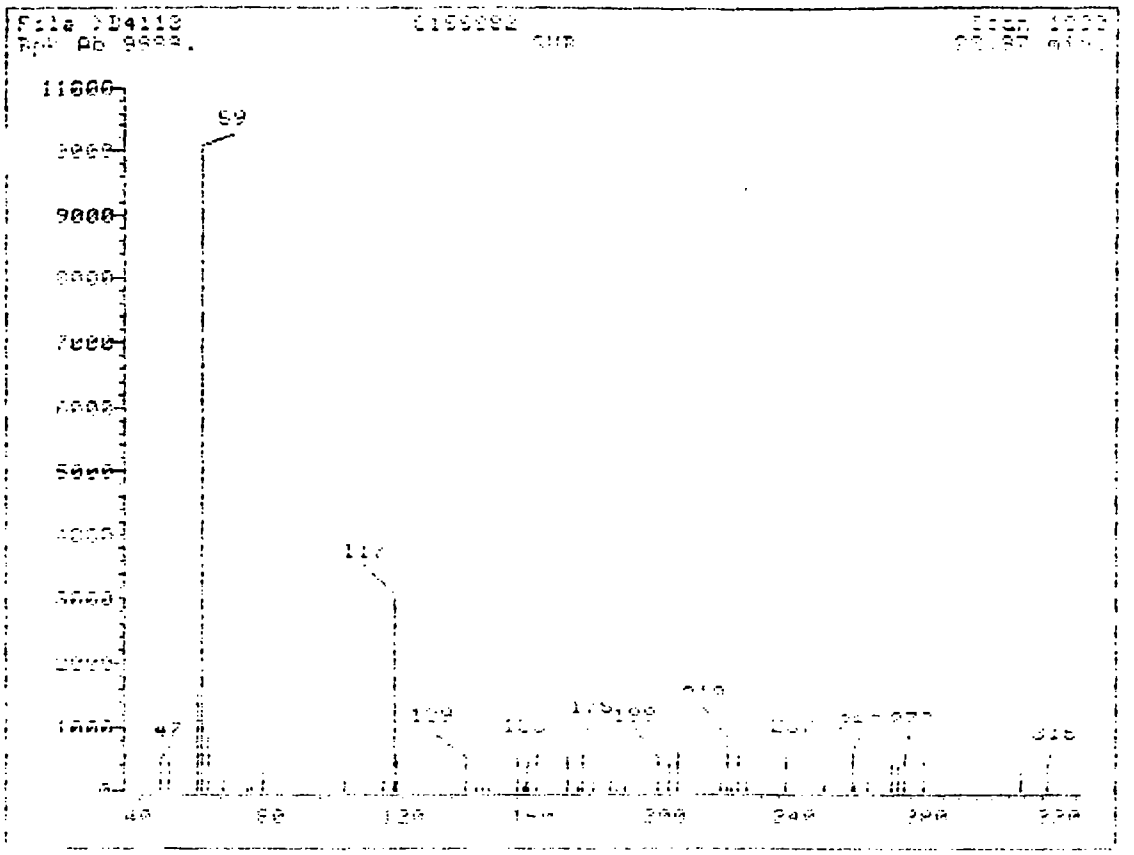
B02 HQ 6/3/94

DATA FILE: >B4113::D7 DATE/TIME: 5/26/94 14:38 MASS SPEC # 1

1. Perylene, 1,2,3,3a,4,5,6,7,8,9,9a,10,11,12-tetradeca 266 C20H26
   hydro-
2. Perylene, 1,2,3,3a,4,5,6,7,8,9,9a,10,11,12-tetradeca 266 C20H26
   hydro-

Sample file: >B4113 Spectrum #: 1755
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15*	2594867	92907	"BIGDB	30	132	3	0	73	59	3	13
2.	15*	2594867	92908	"BIGDB	31	135	3	0	65	59	3	13



See attached.

HR 6/3/94.

[illegible] # 10

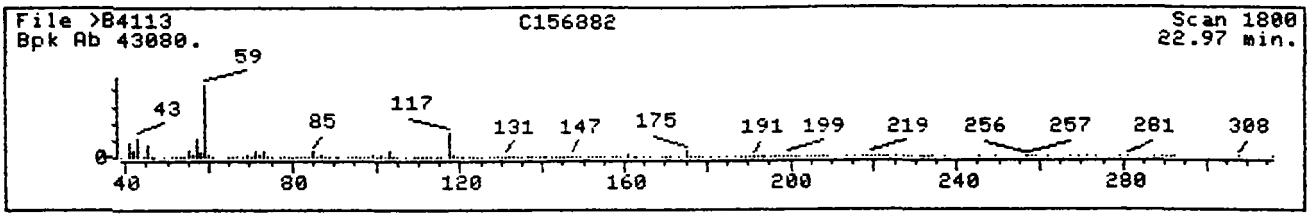
[illegible] RESPONSE FACTOR IS 90.00

[illegible] DATE/TIME: [illegible] 12:30 MASS SPEC # [illegible]

Sample File: 194117 Spectrum #: 1800

No data base entries were retrieved

001422

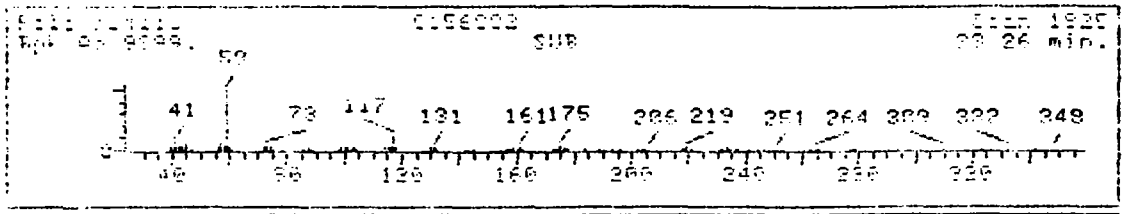


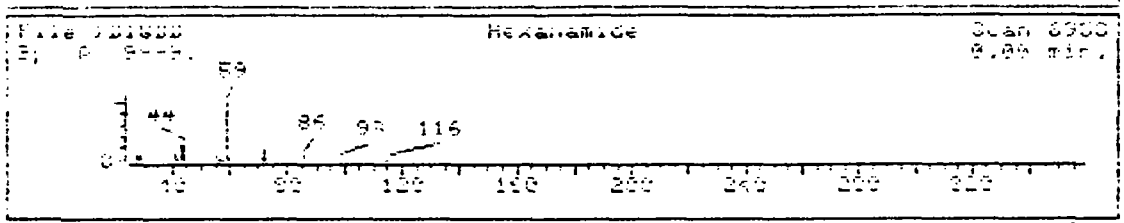
unknown HG 6/3/94

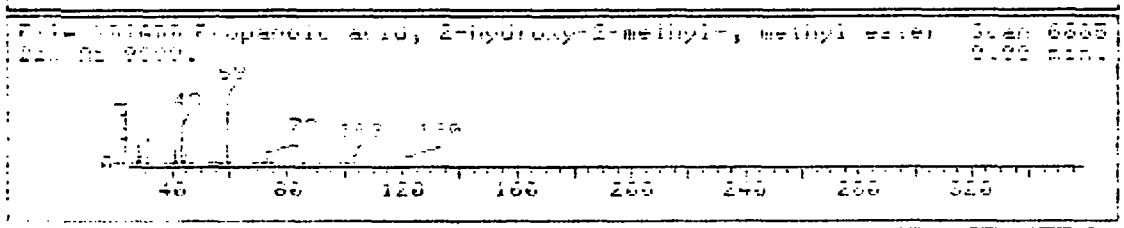
1. 2-Butanone, 3-hydroxy-3-methyl- 102 C5H10O2
2. 2-BUTANOL, 3-METHOXY- 104 C5H12O2
3. 1-Propanol, 2-(2-methoxypropoxy)- 148 C7H16O3
4. 2,3-Butanediol, 2,3-dimethyl- 118 C6H14O2

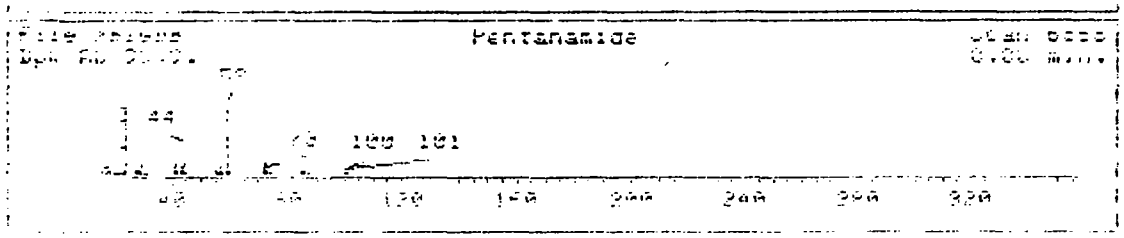
Sample file: >B4113 Spectrum #: 1800
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	57*	115220	6960	"BIGDB	39	42	0	0	69	37	19	48
2.	57*	53778726	6891	"BIGDB	40	47	0	0	77	37	19	48
3.	42	13588288	7209	"BIGDB	36	52	1	0	94	21	17	13
4.	41	76095	6932	"BIGDB	49	24	0	0	80	37	14	28









See attached.
HA 6/3/94.

UNKNOWN # 20

[illegible] = [illegible] [illegible] [illegible] 280.00

DATA FILE: >B4113::D7 DATE/TIME: 5/24/94 14:38 MASS SPEC # 1

1.	Hexanamide	115 C6H13NO
2.	Propanoic acid, 2-hydroxy-2-methyl-, methyl ester	118 C5H10O3
3.	Pentanamide	101 C5H11NO
4.	Silane, hexyl- (8CI9CI)	116 C6H16Si
5.	Butanamide, 3-methyl-	101 C5H11NO

Sample file: >B4113 Spectrum #: 1225
Search speed: 1 Tilting option: N No. of ion ranges searched: 30

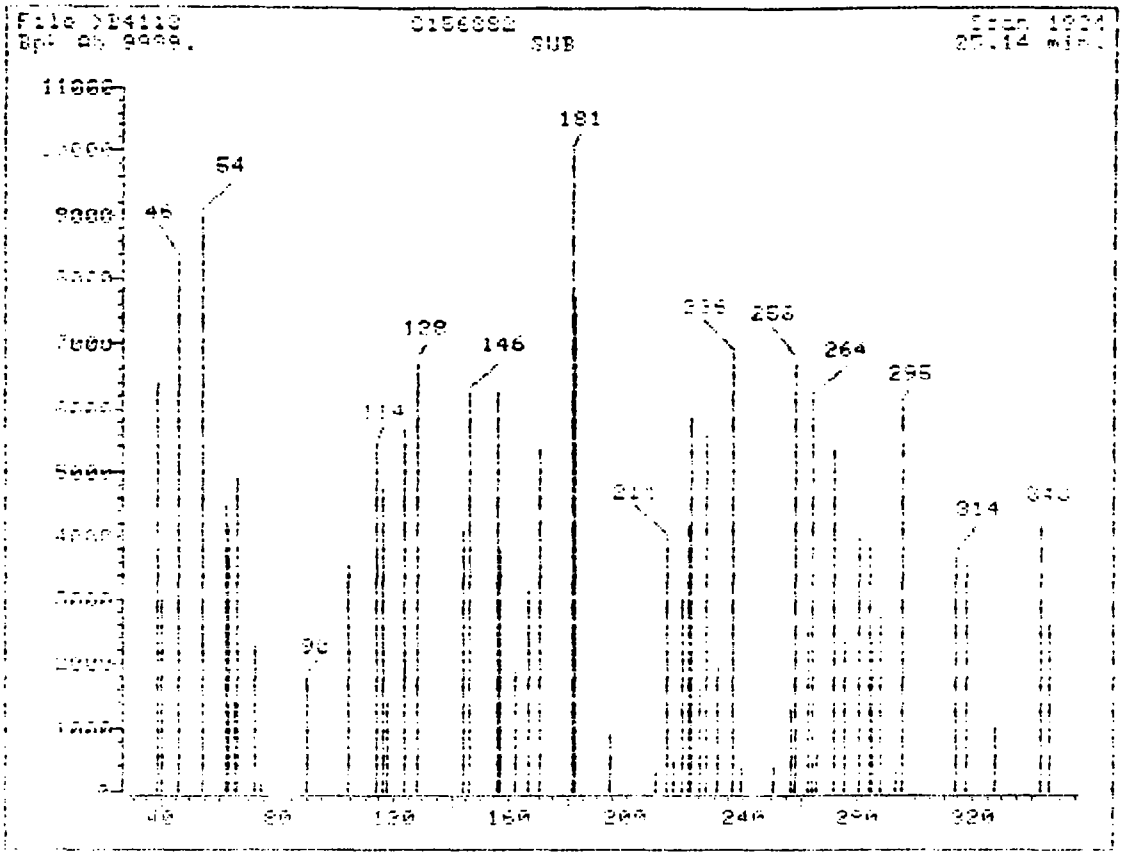
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IV
[illegible]												
[illegible]												
[illegible]												
4.	30*	1072146	7173	"BIGDB	29	61	3	0	100	34	12	13
.	29*	541468	6951	"BIGDB	23	59	3	0	100	34	12	12

unknown sa 6/3/94

1.	Pentanamide	101	C5H11NO
2.	3-Hexanol	102	C6H14O
3.	2,3-Butanediol, 2,3-dimethyl-	118	C6H14O2
4.	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3
5.	Butanamide, 3-methyl-	101	C5H11NO
6.	Hexanamide	115	C6H13NO
7.	Silane, hexyl- (8CI9CI)	116	C6H16Si
8.	Propanoic acid, 2-hydroxy-2-methyl-, methyl ester	118	C5H10O3
9.	PROPIONIC ACID, 2-ISOPROPOXY-, METHYLESTER	146	C7H14O3
10.	2-Propanol, 2-methyl-	74	C4H10O
11.	Butanamide	87	C4H9NO
12.	Pentanamide, 4-methyl-	115	C6H13NO
13.	Pentanal, oxime	101	C5H11NO
14.	Butanamide, 3-methyl-	101	C5H11NO
15.	Butane, 2-methoxy-3-methyl-	102	C6H14O
16.	2-Butanone, 3-hydroxy-3-methyl-	102	C5H10O2
17.	2-Propanol, 1-[1-methyl-2-(2-propenyloxy)ethoxy]-	174	C9H18O3

Sample file: >B4113 Spectrum #: 1825
Search speed: 1 Tilting option: N No. of ion ranges searched: 39

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	34*	626971	6858	"BIGDB	34	48	2	0	100	32	12	17
2.	33*	623370	6883	"BIGDB	32	55	2	0	100	32	12	16
3.	31	76095	6931	"BIGDB	38	39	1	0	99	32	12	14
4.	31	13429077	7151	"BIGDB	40	44	2	0	88	32	12	14
5.	31*	541468	6951	"BIGDB	35	47	3	0	100	32	12	14
6.	31*	628024	6953	"BIGDB	29	52	3	0	100	32	12	14
7.	31*	1072146	7173	"BIGDB	29	61	2	0	100	32	12	14
8.	31*	2110783	6885	"BIGDB	27	63	2	0	100	32	12	14
9.	30	0	6782	"BIGDB	36	38	1	0	91	32	12	13
10.	30	75650	6830	"BIGDB	35	38	1	0	83	32	12	13
11.	30*	541355	6855	"BIGDB	28	66	3	0	100	32	12	13
12.	29*	1119295	7055	"BIGDB	23	63	3	0	100	32	12	12
13.	29*	628795	6860	"BIGDB	23	71	3	0	100	32	12	12
14.	26*	541468	6952	"BIGDB	24	48	3	0	100	36	10	12
15.	11*	62016493	6994	"BIGDB	26	48	1	0	56	64	2	14
16.	11*	115220	6960	"BIGDB	27	54	1	0	63	64	2	15
17.	11*	55956257	7214	"BIGDB	23	55	0	0	40	64	2	16



See attached file 6/3/94.

UNKNOWN # 21

1273440

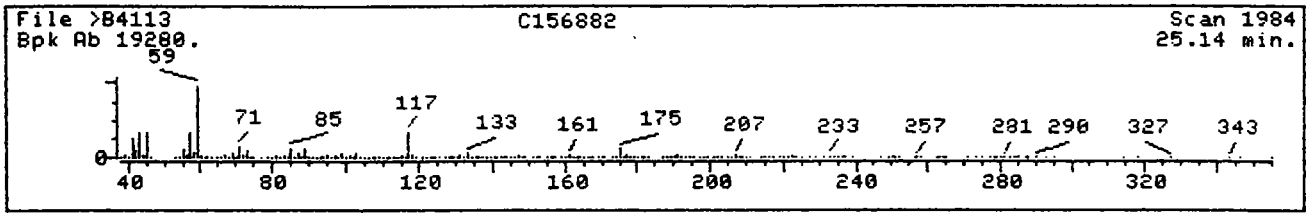
[illegible] RESPONSE FACTOR IS ~~[illegible]~~ 121.0

DATA FILE: >B4113::DP DATE/TIME: [illegible] MASS SPEC # [illegible]

Sample File: >B4113 Spectrum #: 1994

No data base entries were retrieved.

FMGR : NEW

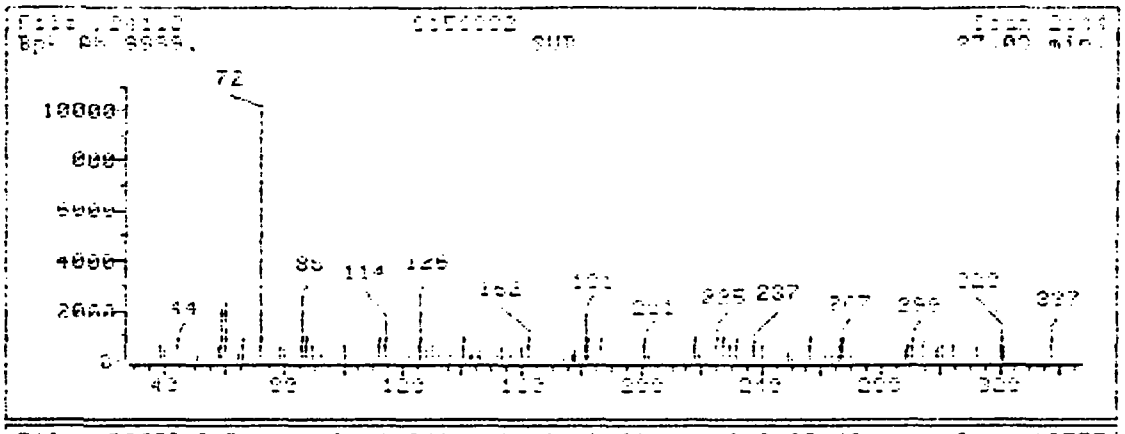


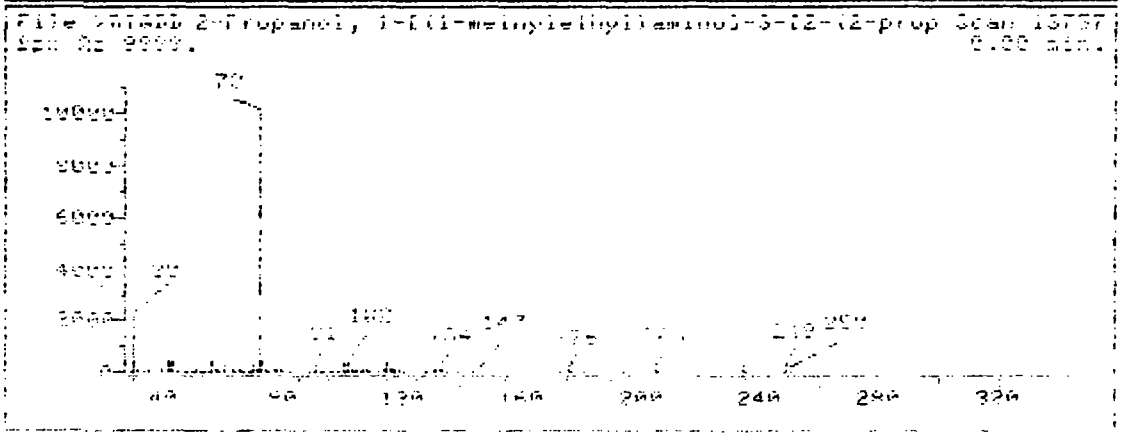
unknown jic 6/3/94

1. Ethanedioic acid, dimethyl ester	118	C4H6O4
2. Butane, 2-methoxy-3-methyl-	102	C6H14O
3. 2-Butanone, 3-hydroxy-3-methyl-	102	C5H10O2
4. 2-BUTANOL, 3-METHOXY-	104	C5H12O2
5. Pentane, 2-methoxy-	102	C6H14O
6. 3-Ethoxy-2-methyl-1-propanol	119	C6H15O2

Sample file: >B4113 Spectrum #: 1984
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	55*	553902	7215	"BIGDB	44	36	0	0	69	41	18	60
2.	47*	62016493	6994	"BIGDB	38	36	0	0	96	41	16	44
3.	41*	115220	6960	"BIGDB	35	46	0	0	85	41	14	36
4.	41*	53778726	6891	"BIGDB	33	54	0	0	100	40	17	30
5.	36*	6795886	6989	"BIGDB	32	48	0	0	78	41	12	27
6.	35*	0	7003	"BIGDB	34	14	1	0	100	34	12	18





BOL HQ 6/3/94.

Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CUN #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	26*	13655522	13757	"BIGDB	25	89	2	0	100	44	8	14

QUANT REPORT

Operator ID: HAIYAN
Output File: ^UB68F::D1
Data File: ^UB68F::D4
Name: SSTD050
Disc:

Quant Rev: 7
Quant Time: 940427 10:55
Injected at: 940427 10:14
Dilution Factor: 1.00000
Instrument ID: MSD100
STD# 1

ID File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #100
Last Calibration: 940324 08:57
Last Ocal Time: 940426 14:01

	Compound	S/N	Mass	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	8.61	152.0	70928	40.00	UG/L	99
2)	Pyridine	3.44	79.0	54002	45.17	UG/L	87
3)	2-Picoline	4.[illegible]	[illegible]	69954	46.98	UG/L	81
4)	2-Fluorophenol	6.14	112.0	80978	50.16	UG/L	73
5)	Phenol	8.04	94.0	130840M	49.74	UG/L	94
6)	bis(2-chloroethyl)ether	8.14	93.0	102571	46.64	UG/L	100
7)	2-Chlorophenol	8.03	108.0	101439	45.74	UG/L	77
8)	1,3-Dichlorobenzene	8.49	146.0	104307	49.79	UG/L	94
9)	1,4-Dichlorobenzene	8.44	146.0	107835M	53.00	UG/L	96
10)	Phenol-d5	8.03	99.0	114717	49.51	UG/L	80
11)	Benzyl alcohol	8.94	108.0	64997	57.41	UG/L	100
12)	1,2-Dichlorobenzene	8.93	146.0	97058	53.49	UG/L	80
13)	2-Methylphenol	9.04	108.0	97992	47.00	UG/L	79
14)	bis(2-chloroisopropyl)ether	9.20	45.0	293493M	41.85	UG/L	100
15)	4-Methylphenol	9.54	108.0	100774	46.87	UG/L	75
16)	N-Nitroso-di-n-propylamine	9.50	70.0	112598	46.00	UG/L	100
17)	Hexachloroethane	9.41	117.0	55952	52.80	UG/L	99
18)	*Naphthalene-d8	11.23	136.0	304654	40.00	UG/L	90
19)	Nitrobenzene	9.79	77.0	143244	47.95	UG/L	66
20)	Isophorone	10.31	82.0	279594	45.59	UG/L	94
21)	2-Nitrophenol	10.45	139.0	78039	45.88	UG/L	90
22)	Nitrobenzene-d5	9.75	82.0	144340	48.03	UG/L	90
23)	2,4-Dimethylphenol	10.63	107.0	147409	50.14	UG/L	96
24)	Benzoic acid	11.02	122.0	73353M	40.14	UG/L	86
25)	bis(2-Chloroethoxy)methane	10.79	93.0	161246	47.21	UG/L	82
26)	2,4-Dichlorophenol	10.98	162.0	115472	47.29	UG/L	92
27)	1,2,4-Trichlorobenzene	11.11	180.0	122496	49.22	UG/L	96
28)	Naphthalene	11.26	128.0	294346	51.33	UG/L	100
29)	4-Chloraniline	11.42	127.0	160167	49.11	UG/L	96
30)	Hexachlorobutadiene	11.54	225.0	81269	47.51	UG/L	99
31)	4-Chloro-3-methylphenol	12.53	107.0	145407	45.54	UG/L	100
32)	2-Methylnaphthalene	12.74	142.0	218211	49.69	UG/L	70
33)	*Acenaphthene-d10	14.95	164.0	198090	40.00	UG/L	100
34)	Hexachlorocyclopentadiene	13.07	237.0	82879	50.07	UG/L	95
35)	2-Fluorobiphenyl	13.54	172.0	271831	53.58	UG/L	97
36)	2,4,6-Trichlorophenol	13.38	196.0	112502	50.19	UG/L	93
37)	Toluenediamine	13.76	121.0	99440	63.32	UG/L	99
38)	2,4,5-Trichlorophenol	13.47	196.0	105349	47.27	UG/L	90
39)	2-Chloronaphthalene	13.76	162.0	220806	48.99	UG/L	95
40)	Dinitrobenzene	14.52	50.0	56497	40.33	UG/L	98
41)	2-Nitroaniline	14.04	65.0	142577	47.46	UG/L	88
42)	Dimethylphthalate	14.46	163.0	356683	47.65	UG/L	93
43)	Acenaphthylene	14.65	152.0	426639	54.07	UG/L	85

Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 10:55
Output File: [illegible] Injected at: 940427 10:14
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible] Instrument ID: MSD102
Year: RTL# 1

ID File: IDSV01::06
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qual Time: 940426 14:01

	Compound	R.T.	Ratio	Area	Conc	Units	q
44)	2,6-Dinitrotoluene	14.59	165.0	96108	43.11	UG/L	100
45)	3-Nitroaniline	14.93	138.0	84279	44.66	UG/L	100
46)	Acenaphthene	15.02	153.0	254162	55.09	UG/L	92
47)	2,4-Dinitrophenol	15.16	184.0	51492	38.07	UG/L	93
48)	4-Nitrophenol	15.42	109.0	32962	56.91	UG/L	95
49)	Dibenzofuran	15.39	168.0	349494	55.59	UG/L	94
50)	Tetrachlorophenol	15.40	232.0	99479	41.11	UG/L	97
51)	2,4-Dinitrotoluene	1[illegible]	165.0	109954	44.59	UG/L	74
52)	Diethylphthalate	15.94	149.0	380475	53.42	UG/L	100
53)	4-Chlorophenyl-phenylether	16.15	204.0	149232	55.42	UG/L	100
54)	Fluorene	16.13	166.0	268778	53.94	UG/L	100
55)	4-Nitroaniline	16.24	137.0	86987	39.86	UG/L	100
56)	2,4,6-Tribromophenol	16.65	329.8	87796	40.72	UG/L	100
57)	*Phenanthrene-d12	18.13	198.0	444256	40.00	UG/L	100
58)	4,6-Dinitro-2-methylphenol	16.30	198.0	85468	46.09	UG/L	100
59)	N-Nitrosodiphenylamine	16.43	169.0	214140	51.55	UG/L	100
60)	Pentadine	16.50	77.0	396299	50.28	UG/L	92
61)	4-Bromophenyl-phenylether	17.20	248.0	93159	48.81	UG/L	88
62)	alpha-BHC	17.02	181.0	66475	56.07	UG/L	90
63)	Hexachlorobenzene	17.31	283.7	141634	42.49	UG/L	90
64)	beta-BHC	17.72	181.0	49711	46.41	UG/L	90
65)	gamma-BHC (Lindane)	17.85	181.0	60045	50.08	UG/L	96
66)	Pentachlorophenol	17.76	266.0	72337	37.96	UG/L	100
67)	Phenanthrene	18.19	178.0	441232	51.99	UG/L	96
68)	delta-BHC	18.39	181.0	53466	48.46	UG/L	90
69)	Carbazole	18.69	167.0	452899	50.93	UG/L	94
70)	Anthracene	18.30	178.0	432493	48.74	UG/L	98
71)	Heptachlor	19.20	272.0	60571	44.30	UG/L	100
72)	Aldrin	19.86	66.0	81252	48.29	UG/L	100
73)	Di-n-butylphthalate	19.48	149.0	585460	46.93	UG/L	82
74)	Fluoranthene	20.74	202.0	497646	45.54	UG/L	100
75)	*Chrysene-d12	23.89	240.0	258288	40.00	UG/L	100
76)	Heptachlor epoxide	20.54	353.0	38444	39.94	UG/L	100
77)	Pyrene	21.23	202.0	432419	54.27	UG/L	98
78)	alpha-Endosulfan	21.20	195.0	13127	53.32	UG/L	79
79)	p,p'-DDE	21.48	246.0	91281	45.94	UG/L	93
80)	Dieldrin	21.66	79.0	100240	51.17	UG/L	84
81)	Endrin	22.04	263.0	22317	46.70	UG/L	100
82)	beta-Endosulfan	22.21	195.0	11918	45.44	UG/L	90
83)	p,p'-DDD	22.20	235.0	134828	46.37	UG/L	79
84)	Endrin aldehyde	23.71	67.0	39416	51.61	UG/L	68
85)	Endosulfan sulfate	22.85	272.0	25106	45.47	UG/L	87
86)	p,p'-DDT	22.83	235.0	114549	47.00	UG/L	91

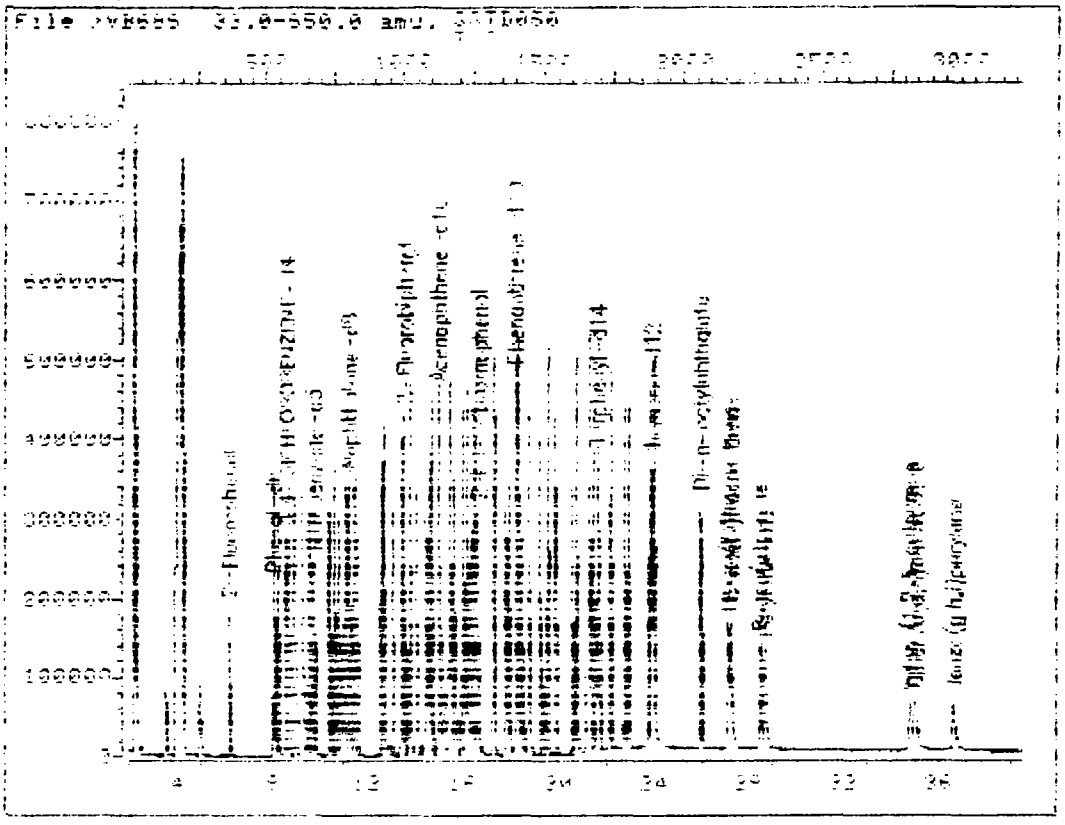
Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 10:55
Output File: [illegible]B685::D1 Injected at: 940427 10:14
Data File: [illegible]B685::D4 Dilution Factor: 1.00000
Name: [illegible] Instrument ID: [illegible]
Misc: STL# 1

ID File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qcal Time: 940426 14:01

	Compound	R.T.	Q.Ion	Area	Conc	Units	q
87)	Butylbenzylphthalate	22.49	149.0	224699	48.90	UG/L	100
88)	3,3'-Dichlorobenzidine	23.83	252.0	98785	50.14	UG/L	92
89)	Benzo(a)anthracene	23.85	228.0	304020M	50.37	UG/L	99
90)	Chrysene	23.95	228.0	302207M	51.50	UG/L	100
91)	bis(2-Ethylhexyl)phthalate	24.01	149.0	308044	61.23	UG/L	94
92)	Methoxychlor	23.75	227.0	184[illegible]	[illegible]	[illegible]	44
93)	Terphenyl-d14	21.59	244.0	[illegible]	44.[illegible]	[illegible]	[illegible]
94)	*Perylene-d12	[illegible]	[illegible]	[illegible]	4[illegible]	[illegible]	100
95)	[illegible]	[illegible]	[illegible]	49[illegible]	43.[illegible]	[illegible]	[illegible]
96)	Benzo[illegible]	27.15	252.0	259799M	44.25	UG/L	
97)	[illegible]fluoranthene	27.24	252.0	299699M	45.[illegible]	[illegible]	94
98)	Benzo(a)pyrene	28.47	252.0	270327	51.91	UG/L	99
99)	Indeno(1,2,3-cd)pyrene	34.78	276.0	189155M	55.99	UG/L	
100)	Dibenzo(a,h)anthracene	35.04	278.0	194807M	58.19	UG/L	
101)	Benzo(g,h,i)perylene	36.63	276.0	204954M	[illegible]	UG/L	

* Compound is IS/TD

TOTAL ION CHROMATOGRAM



Data File: [illegible] Quant Output File: [illegible]
Name: [illegible] Instrument ID: MSD102
Misc: BTL # 1

Id File: [illegible]
Title: [illegible] VOLATILES ID FILE - INST #102
Last Calibration: 940704 09:57 Last Cal Time: 940404 14:01

Operator ID: [illegible]
Quant Time : 940407 10:55
Injected at: 940407 10:14

QUANT REPORT

Operator ID: HAIYAN
Output File: 0CB529::D1
Data File: 0CB529::D4
Name: SSTD160
Misc:

Quant Rev: 7
Quant Time: 940427 12:01
Injected at: 940427 11:06
Dilution Factor: 1.00000
Instrument ID: MSD102
BTL# 1

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57
Last Qcal Time: 940426 14:01

	Compound	R.T.	Q ion	Area	Conc.	Units	q
1)	*1,4-DICHLOROBENZENE-d4	8.61	152.0	56544	40.00	UG/L	96
4)	2-Fluorophenol	6.15	112.0	164503	129.39	UG/L	59
5)	Phenol	8.10	94.0	269921M	128.72	UG/L	72
6)	bis(2-chloroethyl)ether	8.19	93.0	240827	137.34	UG/L	100
7)	2-Chlorophenol	8.25	128.0	223010	106.90	UG/L	83
8)	1,3-Dichlorobenzene	8.51	146.0	195903	115.04	UG/L	98
9)	1,4-Dichlorobenzene	8.66	146.0	191766M	118.23	UG/L	95
10)	Phenol-d6	8.07	99.0	228907	119.34	UG/L	73
11)	Benzyl alcohol	9.01	108.0	146415	162.21	UG/L	100
12)	1,2-Dichlorobenzene	8.95	146.0	185999	129.05	UG/L	97
13)	2-Methylphenol	9.25	108.0	166999	111.86	UG/L	75
14)	bis(2-chloroisopropyl)ether	9.22	45.0	646703M	115.67	UG/L	100
15)	4-Methylphenol	9.59	108.0	181249M	105.73	UG/L	93
16)	N-Nitroso-di-n-propylamine	9.56	70.0	191194	98.41	UG/L	100
17)	Hexachloroethane	9.63	117.0	97135	103.19	UG/L	95
18)	*Naphthalene-d8	11.23	136.0	243606	40.00	UG/L	91
19)	Nitrobenzene	9.82	77.0	302075	128.58	UG/L	67
20)	Isophorone	10.3	82.0	588963	120.84	UG/L	96
21)	2-Nitrophenol	10.49	139.0	172589	127.74	UG/L	96
22)	Nitrobenzene-d5	9.79	82.0	346163	144.99	UG/L	98
23)	2,4-Dimethylphenol	10.66	107.0	314564	134.69	UG/L	98
24)	Benzoic acid	11.16	122.0	219713M	151.35	UG/L	83
25)	bis(2-Chloroethoxy)methane	10.82	93.0	345995	127.52	UG/L	93
26)	2,4-Dichlorophenol	11.01	162.0	224433	115.68	UG/L	93
27)	1,2,4-Trichlorobenzene	11.13	180.0	208927	105.68	UG/L	96
28)	Naphthalene	11.29	128.0	547751	120.24	UG/L	100
29)	4-Chloraniline	11.45	127.0	300721	116.06	UG/L	95
30)	Hexachlorobutadiene	11.56	225.0	145255M	106.90	UG/L	89
31)	4-Chloro-3-methylphenol	12.55	107.0	304230	119.94	UG/L	100
32)	2-Methylnaphthalene	12.75	142.0	398407	114.21	UG/L	75
33)	*Acenaphthene-d10	14.95	164.0	128074	40.00	UG/L	100
34)	Hexachlorocyclopentadiene	13.07	237.0	186354	174.12	UG/L	98
35)	2-Fluorobiphenyl	13.56	172.0	489129	149.11	UG/L	93
36)	2,4,6-Trichlorophenol	13.40	196.0	223181	153.99	UG/L	87
38)	2,4,5-Trichlorophenol	13.48	196.0	237929M	165.10	UG/L	93
39)	2-Chloronaphthalene	13.77	162.0	460620	158.09	UG/L	95
41)	2-Nitroaniline	14.06	65.0	345268	177.78	UG/L	90
42)	Dimethylphthalate	14.47	163.0	732780	151.40	UG/L	93
43)	Acenaphthylene	14.66	152.0	763037	149.57	UG/L	95
44)	2,6-Dinitrotoluene	14.60	165.0	176654	136.76	UG/L	100
45)	3-Nitroaniline	14.96	138.0	189525	162.28	UG/L	100
46)	Acenaphthene	15.04	153.0	454659	152.42	UG/L	89
47)	2,4-Dinitrophenol	15.18	184.0	171569	201.37	UG/L	84

Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 12:01
Output File: 108529::D1 Injected at: 940427 11:06
Data File: 108529::D4 Dilution Factor: 1.00000
Name: SST0160 Instrument ID: MSD102
Misc: PTL# 1

ID File: 108V01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qcal Time: 940426 14:01

	Compound	R.T.	Quan	Area	Conc	Units	q
48)	4-Nitrophenol	15.44	109.0	91142	243.40	UG/L	66
49)	Dibenzofuran	15.40	168.0	636009	147.92	UG/L	96
50)	2,4-Dinitrotoluene	15.44	165.0	216494M	135.79	UG/L	68
51)	Diethylphthalate	16.00	149.0	765447	166.25	UG/L	100
52)	4-Chlorophenyl phenylether	16.17	204.0	221997	127.17	UG/L	100
54)	Fluorene	16.14	166.0	434935	134.72	UG/L	100
55)	4-Nitroaniline	16.29	168.0	197394	139.90	UG/L	100
56)	2,4,6-Tribromophenol	16.44	329.0	205129	147.16	UG/L	100
57)	*Phenanthrene-d10	16.15	199.0	329571	40.00	UG/L	100
58)	4,6-Dinitro-2-methylphenol	16.34	198.0	172202	125.62	UG/L	100
59)	N-Nitrosodiphenylamine	16.45	169.0	379379	123.12	UG/L	100
60)	Benzidine	16.51	77.0	793729	139.29	UG/L	99
61)	4-Bromophenyl-phenylether	17.01	248.0	162581	114.93	UG/L	91
62)	alpha-BHC	17.05	181.0	116729	132.73	UG/L	96
63)	Hexachlorobenzene	17.33	283.7	304519	123.13	UG/L	99
64)	beta-BHC	17.75	181.0	79931	99.34	UG/L	93
65)	gamma-BHC (Lindane)	17.87	181.0	116855	131.37	UG/L	92
66)	Pentachlorophenol	17.77	266.0	179327	126.84	UG/L	100
67)	Phenanthrene	18.20	178.0	842653	134.95	UG/L	96
68)	delta-BHC	18.40	181.0	115625	140.73	UG/L	96
69)	Carbazole	18.70	167.0	889014	134.76	UG/L	97
70)	Anthracene	18.31	178.0	827294M	125.69	UG/L	96
71)	Heptachlor	19.20	272.0	116642	114.99	UG/L	100
72)	Aldrin	19.87	66.0	150130	120.27	UG/L	100
73)	Di-n-butylphthalate	19.48	149.0	918313M	99.23	UG/L	95
74)	Fluoranthene	20.76	202.0	924597	114.06	UG/L	100
75)	*Chrysene-d12	23.90	240.0	168504	40.00	UG/L	100
76)	Heptachlor epoxide	20.53	353.0	82905	132.04	UG/L	100
77)	Pyrene	21.25	202.0	767598	147.66	UG/L	93
78)	alpha-Endosulfan	21.21	195.0	24116	150.15	UG/L	89
79)	p,p'-DDE	21.49	246.0	170496	131.53	UG/L	92
80)	Dieldrin	21.67	79.0	187171	146.46	UG/L	98
81)	Endrin	22.05	263.0	49448	158.60	UG/L	100
82)	beta-Endosulfan	22.22	195.0	22565	131.87	UG/L	96
83)	p,p'-DDD	22.20	235.0	227693	120.03	UG/L	95
84)	Endrin aldehyde	23.72	67.0	85207	171.01	UG/L	70
85)	Endosulfan sulfate	22.96	272.0	51325	142.49	UG/L	81
86)	p,p'-DDT	22.85	235.0	218106	137.19	UG/L	92
87)	Butylbenzylphthalate	22.68	149.0	476510	158.95	UG/L	100
88)	3,3'-Dichlorobenzidine	23.84	252.0	221176	172.09	UG/L	94
89)	Benzo(a)anthracene	23.88	228.0	515571	130.94	UG/L	93
90)	Chrysene	23.96	228.0	483537	126.36	UG/L	100
91)	bis(2-Ethylhexyl)phthalate	24.01	149.0	586360	178.65	UG/L	90

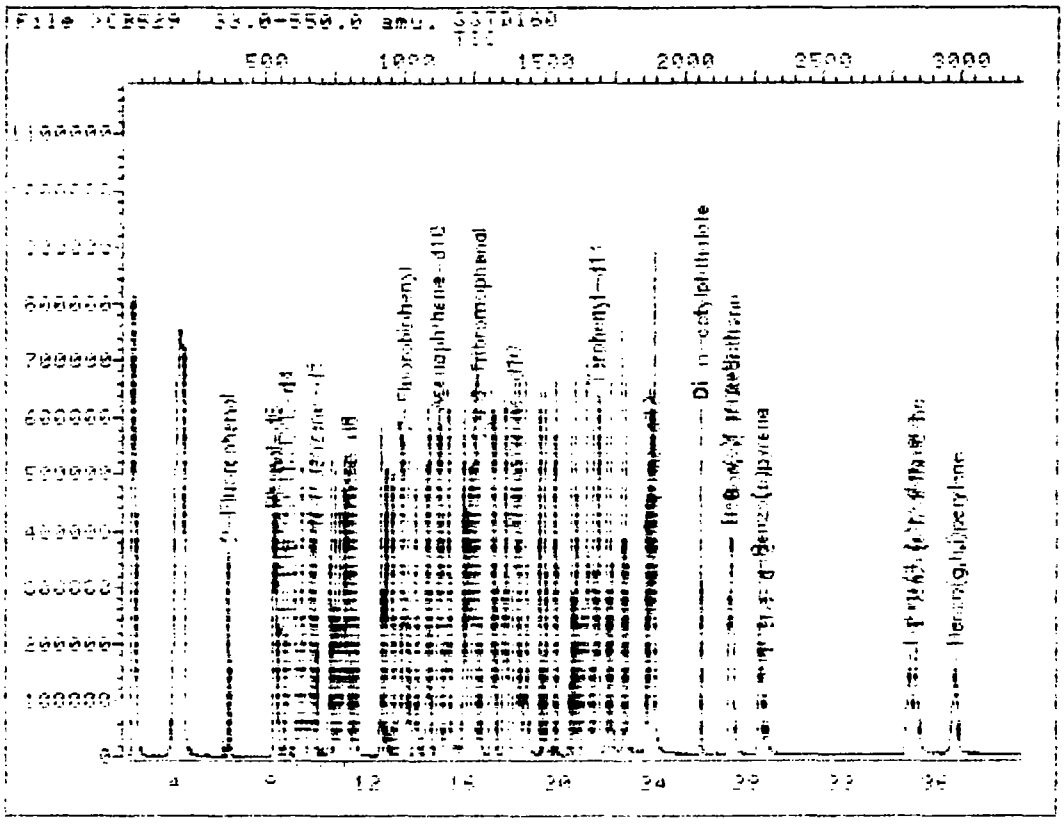
Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 12:01
Output File: [illegible]::01 Injected at: 940427 11:06
Data File: [illegible]::04 Dilution Factor: 1.00000
Name: [illegible] Instrument ID: MSD102
Misc: BTL# 1

ID File: IDSV[illegible]::06
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qcal Time: 940426 14:01

	Compound	R.T.	Q.ion	Area	Conc	Units	q
92)	Methoxychlor	23.76	227.0	434179	199.16	UG/L	44
93)	Terphenyl-d14	21.61	244.0	623497	134.94	UG/L	100
94)	*Perylene-d12	28.71	264.0	201066	40.00	UG/L	100
95)	Di-n-octylphthalate	25.94	149.0	1091936M	113.47	UG/L	
96)	Benzo(b)fluoranthene	27.19	252.0	766970M	151.49	UG/L	
97)	Benzo(k)fluoranthene	27.29	252.0	757969M	132.24	UG/L	92
98)	Benzo(a)pyrene	28.49	252.0	764077	170.36	UG/L	93
99)	Indeno(1,2,3-cd)pyrene	34.96	276.0	693419M	237.92	UG/L	
00)	Dibenzo(a,h)anthracene	35.09	278.0	631292M	230.77	UG/L	
01)	Benzo(g,h,i)perylene	31.74	276.0	709775M	241.91	UG/L	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CB529::04 Quant Output File: ^CB529::01
Name: SSTD160 Instrument ID: MS0100
Misc: RTL# 1

Id File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST #100
Last Calibration: 940304 08:57 Last Oral Time: 940406 14:01

Operator ID: HAIVAN
Quant Time : 940407 12:01
Injected at: 940407 11:06

Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 13:10
Output File: 0CB530::D3 Injected at: 940427 12:29
Data File: 0CB530::D4 Dilution Factor: 1.00000
Name: SLTD100 Instrument ID: MSD102
Misc: STL# 1

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qcal Time: 940426 14:01

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	9.42	152.0	71375	40.00	UG/L	94
4)	2-Fluorophenol	6.16	112.0	179769	110.66	UG/L	64
5)	Phenol	8.11	94.0	274256M	103.94	UG/L	74
6)	bis(2-chloroethyl)ether	8.19	93.0	247139	111.67	UG/L	100
7)	2-Chlorophenol	8.26	122.0	226179	101.40	UG/L	93
8)	1,3-Dichlorobenzene	8.50	146.0	199118	92.65	UG/L	99
9)	1,4-Dichlorobenzene	8.67	146.0	188824M	92.22	UG/L	93
10)	Phenol-d6	8.04	99.0	245779	101.51	UG/L	78
11)	Benzyl alcohol	9.02	108.0	146117	108.24	UG/L	100
12)	1,2-Dichlorobenzene	8.94	146.0	189612	104.23	UG/L	89
13)	2-Methylphenol	9.26	108.0	164359	97.28	UG/L	78
14)	bis(2-chloroisopropyl)ether	9.23	45.0	666983M	94.51	UG/L	100
15)	4-Methylphenol	9.59	108.0	182069M	94.14	UG/L	93
16)	N-Nitroso-di-n-propylamine	9.55	70.0	197641	80.59	UG/L	100
17)	Hexachloroethane	9.42	117.0	83961	78.76	UG/L	92
18)	*Naphthalene-d8	11.24	136.0	326641	40.00	UG/L	91
19)	Nitrobenzene	9.83	77.0	306683	95.77	UG/L	68
20)	Isophorone	10.37	82.0	795717	101.70	UG/L	97
21)	2-Nitrophenol	10.47	139.0	181499	100.19	UG/L	97
22)	Nitrobenzene-d5	9.79	82.0	357233	111.59	UG/L	89
23)	2,4-Dimethylphenol	10.67	107.0	324838	103.73	UG/L	96
24)	Benzoic acid	11.17	122.0	213401M	109.64	UG/L	83
25)	bis(2-Chloroethoxy)methane	10.93	93.0	358319	98.49	UG/L	96
26)	2,4-Dichlorophenol	11.02	162.0	229176	88.09	UG/L	95
27)	1,2,4-Trichlorobenzene	11.14	180.0	216669	81.73	UG/L	94
28)	Naphthalene	11.30	128.0	543487	89.01	UG/L	100
29)	4-Chloraniline	11.45	127.0	328228	94.48	UG/L	96
30)	Hexachlorobutadiene	11.56	225.0	146524M	80.42	UG/L	99
31)	4-Chloro-3-methylphenol	12.56	107.0	319608	93.98	UG/L	100
32)	2-Methylnaphthalene	12.75	142.0	407689	87.16	UG/L	73
33)	*Acenaphthene-d10	14.96	164.0	169360	40.00	UG/L	100
34)	Hexachlorocyclopentadiene	13.09	237.0	172490	121.88	UG/L	93
35)	2-Fluorobiphenyl	13.57	172.0	509927	117.55	UG/L	96
36)	2,4,6-Trichlorophenol	13.40	196.0	236382	123.34	UG/L	89
38)	2,4,5-Trichlorophenol	13.49	196.0	228857M	120.62	UG/L	87
39)	2-Chloronaphthalene	13.78	162.0	482426	125.20	UG/L	95
41)	2-Nitroaniline	14.07	65.0	351866	137.01	UG/L	87
42)	Dimethylphthalate	14.48	163.0	757311	118.33	UG/L	93
43)	Acenaphthylene	14.67	152.0	779377	115.53	UG/L	95
44)	2,6-Dinitrotoluene	14.61	165.0	196849	115.24	UG/L	100
45)	3-Nitroaniline	14.95	138.0	121997	79.00	UG/L	100
46)	Acenaphthene	15.04	153.0	460265	116.68	UG/L	89
47)	2,4-Dinitrophenol	15.19	184.0	182261M	161.77	UG/L	62

Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 13:10
Output File: [illegible] Injected at: 940427 10:29
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible] Instrument ID: MSD102
Misc: PTL# 1

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qual Time: 940426 14:01

	Compound	R.T.	Q.Ion	Area	Conc.	Units	Q
48)	4-Nitrophenol	15.45	109.0	[illegible]	170.22	UG/L	62
49)	Dibenzofuran	15.41	168.0	645671	113.54	UG/L	94
51)	2,4-Dinitrotoluene	15.[illegible]	165.0	175[illegible]	93.39	UG/L	95
52)	Diethylphthalate	16.01	149.0	804017	132.04	UG/L	100
53)	4-Chlorophenyl-phenylether	[illegible]	[illegible]	[illegible]	97.49	UG/L	100
54)	Fluorene	16.14	166.0	438995	102.85	UG/L	100
55)	4-Nitroaniline	[illegible]	[illegible]	[illegible]	108.48	UG/L	100
56)	2,4,6-Trichlorophenol	16.[illegible]	309.0	217197	117.93	UG/L	100
57)	*Benzoethylene-d10	[illegible]	[illegible]	[illegible]	40.00	UG/L	100
58)	4,6-Dinitro-2-methylphenol	16.[illegible]	199.0	195194	99.97	UG/L	100
59)	N-Nitrosodiphenylamine	16.47	169.0	403492	97.24	UG/L	100
60)	Benzidine	16.52	77.0	853472	111.21	UG/L	92
61)	4-Bromophenyl phenylether	17.23	248.0	164744	96.42	UG/L	91
62)	alpha-BHC	17.25	181.0	121122	102.27	UG/L	94
63)	Hexachlorobenzene	17.33	283.7	303896	91.25	UG/L	92
64)	beta-BHC	17.[illegible]	181.0	80643	75.37	UG/L	93
65)	gamma-BHC (Lindane)	17.99	181.0	121514	101.44	UG/L	90
66)	Pentachlorophenol	17.79	266.0	199896	104.47	UG/L	100
67)	Phenanthrene	18.21	178.0	937799	99.91	UG/L	95
68)	delta-BHC	18.41	181.0	122041	110.3[illegible]	UG/L	94
69)	Carbazole	18.70	167.0	904194	101.79	UG/L	97
70)	Anthracene	18.32	178.0	684374	77.43	UG/L	97
71)	Heptachlor	19.22	272.0	125772	92.07	UG/L	100
72)	Aldrin	19.89	66.0	155504	92.51	UG/L	100
73)	Di-n-butylphthalate	19.50	149.0	914389	73.37	UG/L	95
74)	Fluoranthene	20.75	202.0	941995	84.30	UG/L	100
75)	*Chrysene-d12	23.[illegible]	240.0	241[illegible]	40.[illegible]	UG/L	100
76)	Heptachlor epoxide	20.55	353.0	89784	99.81	UG/L	100
77)	Pyrene	21.[illegible]	202.0	765780	102.82	UG/L	92
78)	alpha-Endosulfan	21.[illegible]	195.0	25815	112.19	UG/L	95
79)	p,p'-DDE	21.[illegible]	246.0	194558	104.77	UG/L	74
80)	Dieldrin	21.68	79.0	191955	104.84	UG/L	93
81)	Endrin	22.04	263.0	49323	110.43	UG/L	100
82)	beta-Endosulfan	22.23	195.0	23600	96.27	UG/L	94
83)	p,p'-DDD	22.20	235.0	245280	90.25	UG/L	91
84)	Endrin aldehyde	23.73	67.0	87767	122.95	UG/L	71
85)	Endosulfan sulfate	22.84	272.0	54993	106.57	UG/L	74
86)	p,p'-DDT	22.84	235.0	232799	102.21	UG/L	88
87)	Butylbenzylphthalate	22.70	149.0	498301	116.02	UG/L	100
88)	3,3'-Dichlorobenzidine	23.85	252.0	235079	127.67	UG/L	99
89)	Benzo(a)anthracene	23.89	228.0	704612M	124.91	UG/L	99
90)	Chrysene	23.97	228.0	660125M	120.41	UG/L	100
91)	bis(2-Ethylhexyl)phthalate	24.02	149.0	625842	133.09	UG/L	92

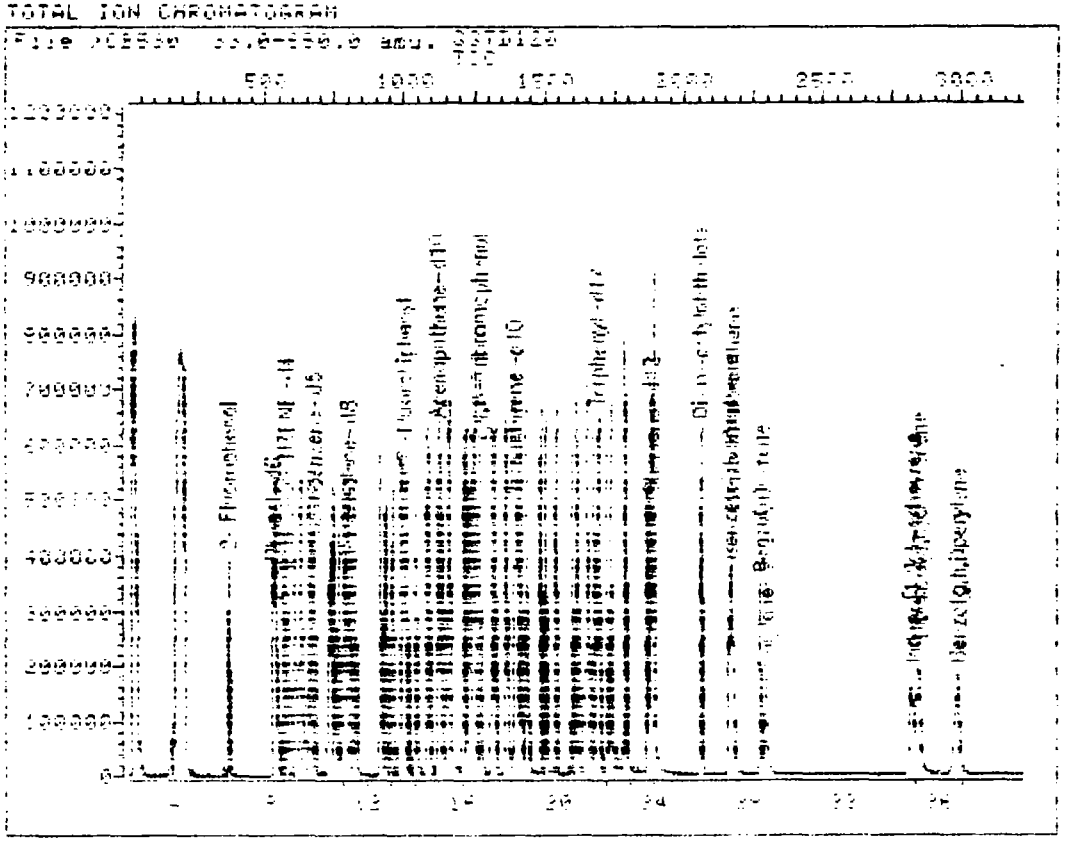
Operator ID: [illegible] Quant Rev: 7 Quant Time: 940427 13:10
Output File: [illegible]::D3 Injected at: 940427 12:29
Data File: [illegible]::D4 Dilution Factor: 1.00000
Name: [illegible] Instrument ID: M[illegible]
[illegible] BTL# 1

QC File: [illegible]::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qcal Time: 940426 14:01

	Compound	R.T.	Quan	Area	Conc	Units	q
92)	Methoxychlor	23.77	227.0	471220	150.87	UG/L	45
93)	Terphenyl-d14	21.62	244.0	660173	99.73	UG/L	100
94)	*Perylene-d12	28.73	264.0	291762	40.00	UG/L	100
95)	Di-n-octylphthalate	25.94	149.0	1150957M	82.42	UG/L	100
96)	Benzo[illegible]anthene	27.20	252.0	834285M	113.71	UG/L	
97)	Benzo[illegible]anthene	27.31	252.0	905491M	96.87	UG/L	93
98)	Benzo[illegible]pyrene	28.50	252.0	792997	120.31	UG/L	94
99)	Indeno[illegible]pyrene	34.99	276.0	715199M	169.11	UG/L	100
100)	Dibenzo[illegible]anthracene	35.13	278.0	691517M	174.21	UG/L	
101)	Benzo[illegible]perylene	34.77	276.0	747297M	175.52	UG/L	

* Compound [illegible]

TOTAL ION CHROMATOGRAM



Data File: [illegible]::D4 Quant Output File: [illegible]::D3
Name: SSTD120 Instrument ID: MSD102
Misc: STL# 1

Id File: [illegible]::D4
Title: SEMI VOLATILES ID FILE - INST #102
Last Calibration: 940424 [illegible] Last Cal Time: 940426 14:01

Operator ID: [illegible]
Quant Time : 940427 13:10
Injected at: 940427 12:29

Operator ID: [illegible] Quant Rev: 7 Quant Time: 940427 13:59
Output File: [illegible]::D3 Injected at: 940427 13:19
Data File: [illegible]::D4 Dilution Factor: 1.00000
Name: [illegible] Instrument ID: MSD102
Mode: PTL# 1

ID File: [illegible]::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qcal Time: 940426 14:01

	Compound	RT	Quan	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	8.60	152.0	63878	40.00	UG/L	97
4)	2-Fluorophenol	6.17	112.0	33540	23.07	UG/L	59
5)	Phenol	8.03	94.0	54903	23.19	UG/L	83
6)	bis(2-chloroethyl)ether	8.12	93.0	41915	21.16	UG/L	100
7)	2-Chlorophenol	8.21	128.0	49076	24.58	UG/L	95
8)	1,3-Dichlorobenzene	8.49	146.0	40385	25.16	UG/L	95
9)	1,4-Dichlorobenzene	8.64	146.0	49156	26.93	UG/L	97
10)	Phenol-d6	8.01	99.0	50929	24.39	UG/L	90
11)	Benzyl alcohol	8.94	108.0	26361	25.95	UG/L	100
12)	1,2-Dichlorobenzene	8.93	146.0	47352	22.09	UG/L	88
13)	2-Methylphenol	9.22	108.0	41966	24.90	UG/L	91
14)	bis(2-chloroisopropyl)ether	9.20	45.0	105375M	19.85	UG/L	100
15)	4-Methylphenol	9.54	108.0	49478	25.55	UG/L	91
16)	N-Nitroso-di-n-propylamine	9.47	70.0	48806	22.24	UG/L	100
17)	Hexachloroethane	9.60	117.0	24706	25.90	UG/L	97
18)	*Naphthalene-d5	11.21	136.0	283575M	40.00	UG/L	90
19)	Nitrobenzene	9.76	77.0	62440	22.46	UG/L	72
20)	Isophorone	10.29	82.0	119784	21.12	UG/L	97
21)	2-Nitrophenol	10.43	139.0	35959	22.90	UG/L	96
22)	Nitrobenzene-d5	9.73	82.0	61929	22.29	UG/L	99
23)	2,4-Dimethylphenol	10.61	107.0	66530	24.47	UG/L	99
24)	Benzoic acid	10.91	122.0	23765	14.06	UG/L	84
25)	bis(2-Chloroethoxy)methane	10.79	93.0	71964	22.78	UG/L	94
26)	2,4-Dichlorophenol	10.97	162.0	57636	25.52	UG/L	92
27)	1,2,4-Trichlorobenzene	11.10	180.0	53913	23.43	UG/L	95
28)	Naphthalene	11.25	128.0	147651	27.84	UG/L	100
29)	4-Chloraniline	11.40	127.0	72950	24.19	UG/L	95
30)	Hexachlorobutadiene	11.53	225.0	38421M	24.29	UG/L	97
31)	4-Chloro-3-methylphenol	12.52	107.0	73957	25.05	UG/L	100
32)	2-Methylnaphthalene	12.72	142.0	109158	26.89	UG/L	71
33)	*Acenaphthene-d10	14.93	164.0	190329	40.00	UG/L	100
34)	Hexachlorocyclopentadiene	13.06	237.0	34269	21.55	UG/L	93
35)	2-Fluorobiphenyl	13.53	172.0	135121	27.72	UG/L	98
36)	2,4,6-Trichlorophenol	13.37	196.0	51080	23.72	UG/L	88
38)	2,4,5-Trichlorophenol	13.47	196.0	50197	23.44	UG/L	89
39)	2-Chloronaphthalene	13.75	162.0	128039	29.57	UG/L	96
41)	2-Nitroaniline	14.02	65.0	60621	21.00	UG/L	97
42)	Dimethylphthalate	14.42	163.0	156261	21.73	UG/L	93
43)	Acenaphthylene	14.62	152.0	206306	27.21	UG/L	95
44)	2,6-Dinitrotoluene	14.55	165.0	41203	21.46	UG/L	100
45)	3-Nitroaniline	14.90	138.0	34804	20.05	UG/L	100
46)	Acenaphthene	15.00	153.0	125536	28.32	UG/L	96
47)	2,4-Dinitrophenol	15.14	184.0	15077	11.91	UG/L	88

Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 13:59
Output File: ^CBF31::C3 Injected at: 940427 13:19
Data File: ^CBF31::D4 Dilution Factor: 1.00000
Name: SSTD020 Instrument ID: MSD100
Misc: STL# 1

ID File: IDBV01::D6
Title: SEMI-VOLATILES ID FILE - INST #102
Last Calibration: 940324 09:57 Last Qcal Time: 940426 14:01

	Compound	R.T.	Quan	Area	Conc	Units	q
48)	4-Nitrophenol	15.41	109.0	139440	25.06	UG/L	94
49)	Dibenzofuran	15.38	168.0	194349	30.42	UG/L	94
51)	2,4-Dinitrotoluene	15.40	165.0	54552	23.02	UG/L	74
52)	Diethylphthalate	15.95	149.0	179051	26.17	UG/L	100
53)	4-Chlorophenyl-phenylether	16.14	204.0	78839	30.39	UG/L	100
54)	Fluorene	16.11	166.0	144762	30.18	UG/L	100
55)	4-Nitroaniline	16.21	138.0	35335	16.95	UG/L	100
56)	2,4,6-Tribromophenol	16.67	309.9	37250	17.99	UG/L	100
57)	*Phenanthrene-d10	19.12	188.0	403739	40.00	UG/L	100
58)	4,6-Dinitro-2-methylphenol	16.27	198.0	32844	18.57	UG/L	100
59)	N-Nitrosodiphenylamine	16.41	169.0	105047	26.51	UG/L	100
60)	Benzidine	16.49	77.0	198699	27.10	UG/L	94
61)	4-Bromophenyl-phenylether	17.18	248.0	49415	27.15	UG/L	95
62)	alpha-BHC	17.20	181.0	32415	28.67	UG/L	97
63)	Hexachlorobenzene	17.19	283.7	67190	21.13	UG/L	99
64)	beta-BHC	17.71	181.0	24879	24.35	UG/L	95
65)	gamma-BHC (Lindane)	17.24	181.0	22841	26.18	UG/L	91
66)	Pentachlorophenol	17.75	266.0	27544	15.15	UG/L	100
67)	Phenanthrene	18.17	178.0	228824	28.27	UG/L	96
68)	delta-BHC	18.38	181.0	25302	23.95	UG/L	90
69)	Carbazole	18.66	167.0	206505	24.35	UG/L	96
70)	Anthracene	18.27	178.0	223703	26.43	UG/L	99
71)	Heptachlor	19.19	272.0	29719	22.79	UG/L	100
72)	Aldrin	19.86	66.0	41784	26.03	UG/L	100
73)	Di-n-butylphthalate	19.46	149.0	332720	27.96	UG/L	90
74)	Fluoranthene	20.73	202.0	252699	24.25	UG/L	100
75)	*Chrysene-d12	23.86	240.0	291549	40.00	UG/L	100
76)	Heptachlor epoxide	20.52	353.0	17694	16.29	UG/L	100
77)	Pyrene	21.20	202.0	237472	26.40	UG/L	96
78)	alpha-Endosulfan	21.19	195.0	7107	25.57	UG/L	79
79)	p,p'-DDE	21.47	246.0	49639	22.13	UG/L	95
80)	Dieldrin	21.65	79.0	51149	23.17	UG/L	82
81)	Endrin	22.02	263.0	10507	19.49	UG/L	100
82)	beta-Endosulfan	22.20	195.0	7302	24.66	UG/L	95
83)	p,p'-DDD	22.20	235.0	71658	21.93	UG/L	97
84)	Endrin aldehyde	23.70	67.0	20494	23.77	UG/L	65
85)	Endosulfan sulfate	22.04	272.0	13542	21.73	UG/L	93
86)	p,p'-DDT	22.83	235.0	55693	20.24	UG/L	99
87)	Butylbenzylphthalate	22.66	149.0	121285	23.38	UG/L	100
88)	3,3'-Dichlorobenzidine	23.82	252.0	40483	18.20	UG/L	84
89)	Benzo(a)anthracene	23.84	228.0	131787	19.34	UG/L	95
90)	Chrysene	23.92	228.0	164441M	24.83	UG/L	100
91)	bis(2-Ethylhexyl)phthalate	23.99	149.0	165715	29.18	UG/L	95

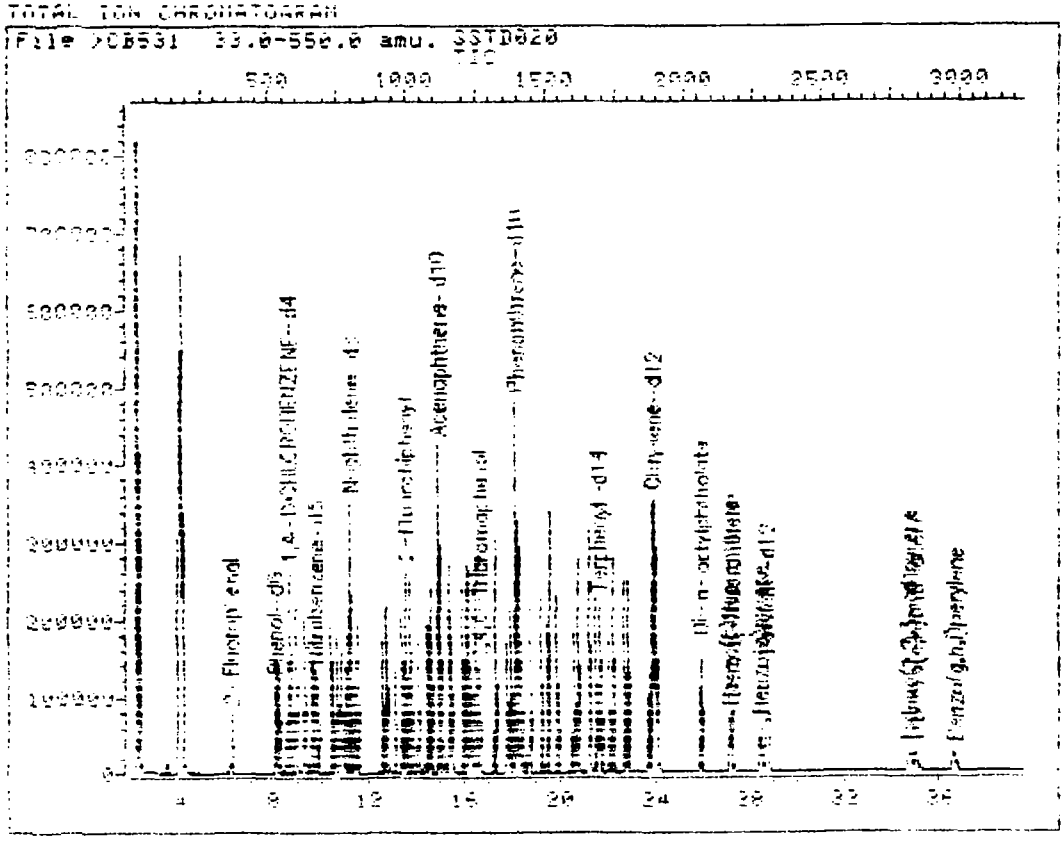
Operator ID: [illegible] Quant Pe : 7 Quant Time: 940427 13:59
Output File: [illegible] Injected at: 940427 13:19
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible] Instrument ID: [illegible]
[illegible] [illegible]

ID File: [illegible]
Title: [illegible] - VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qual Time: 940426 14:01

	Compound	R.T.	Quan	Area	Comp	Units	q
92)	Methoxychlor	23.73	227.0	94350	25.01	UG/L	45
93)	Terphenyl-d14	21.59	244.0	165593	20.71	UG/L	100
94)	*Perylene-d12	28.49	264.0	256166	40.00	UG/L	100
95)	Di-n-octylphthalate	25.91	149.0	247616M	20.20	UG/L	
96)	Benzo(b)fluoranthene	27.13	252.0	123746M	19.21	UG/L	
97)	Benzo(k)fluoranthene	27.22	252.0	118679M	16.25	UG/L	95
98)	[illegible]	28.43	252.0	113997	19.93	UG/L	99
99)	[illegible]	34.71	276.0	94451M	22.74	UG/L	
100)	[illegible]	34.[illegible]	278.0	[illegible]	23.[illegible]	UG/L	
101)	Benzo(g,h,i)perylene	34.41	276.0	92944M	24.9[illegible]	UG/L	

* Compound [illegible]

TOTAL ION CHROMATOGRAM



Data File: >CB531::D4 Quant Output File: >CB531::D3
Name: SSTD020 Instrument ID: MSD102
Misc: RT # 1

Id File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #1 [illegible]
Last Calibration: 940324 09:57 Last Dial Time: 940427 14:01

Operator ID: [illegible]
Quant Time : 940427 13:59
Injected at: 940427 13:19

Operator ID: HAIYAN Quant Run: 7 Quant Time: 940427 14:56
Output File: ^CB532::D7 Injected at: 940427 14:19
Data File: ^CB532::D4 Injection Series: 1 00000
Name: 0570999 Instrument ID: MS0100
Misc: STD 1

IS File: IDSW01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qual Time: 940426 14:01

	Compound	RT	Rspn	Area	Conc	Units	%
1)	*1,4-Dichlorobenzene-d4	9.49	150.0	59907	40.00	UG/L	97
2)	2-Fluorophenol	4.17	112.0	100274	81.35	UG/L	60
3)	Phenol	6.97	94.0	112502	77.26	UG/L	77
4)	bis(2-chloroethyl)ether	9.16	93.0	139744	75.74	UG/L	100
5)	2-Chlorophenol	9.30	128.0	179[illegible]	72.[illegible]	UG/L	97
6)	1,3-Dichlorobenzene	9.49	146.0	131197	71.10	UG/L	95
	1,4-Dichlorobenzene	9.54	146.0	[illegible]	[illegible]	UG/L	97
7)	Benzyl alcohol	9.97	108.0	168877	76.96	UG/L	77
8)	2-Methylphenol	9.[illegible]	108.0	[illegible]	[illegible]	UG/L	100
9)	1,2-Dichlorobenzene	9.97	146.0	102736	80.81	UG/L	97
10)	2-Methylphenol	9.97	108.0	[illegible]	72.70	UG/L	72
11)	bis(2-Chloroisopropyl)ether	9.99	45.0	703140M	47.37	UG/L	100
12)	4-Methylphenol	9.84	108.0	104144	70.51	UG/L	99
13)	N-Nitroso-di-n-propylamine	9.91	70.0	104774	41.33	UG/L	100
14)	Hexachloroethane	9.40	117.0	49494	79.95	UG/L	92
15)	*Naphthalene-d8	11.04	136.0	959591	40.00	UG/L	97
16)	Nitrobenzene	9.79	77.0	100570	74.74	UG/L	40
17)	Isophorone	10.31	82.0	294597	78.69	UG/L	99
18)	2-Nitrophenol	10.44	139.0	107049	74.45	UG/L	91
19)	Nitrobenzene-d5	9.7[illegible]	82.0	100416	79.87	UG/L	89
20)	2,4-Dimethylphenol	10.43	107.0	100145	77.50	UG/L	99
21)	Benzoic acid	11.05	122.0	107997M	87.00	UG/L	86
22)	bis(2-Chloroethoxy)methane	10.79	93.0	214419	74.45	UG/L	87
23)	2,4-Dichlorophenol	10.99	162.0	152704	74.19	UG/L	94
24)	1,2,4-Trichlorobenzene	11.11	180.0	151569	79.00	UG/L	94
25)	Naphthalene	11.27	128.0	374632	77.45	UG/L	100
26)	4-Chloroaniline	11.43	127.0	211479	74.96	UG/L	96
27)	Hexachlorobutadiene	11.54	225.0	101747	79.54	UG/L	99
28)	4-Chloro-3-methylphenol	12.50	107.0	226047	74.49	UG/L	100
29)	2-Methylnaphthalene	12.73	142.0	269599	79.57	UG/L	79
30)	*Acenaphthene-d10	14.95	164.0	161137	40.00	UG/L	100
31)	Hexachlorocyclopentadiene	13.04	237.0	117464	87.27	UG/L	89
32)	2-Fluorobiphenyl	13.54	172.0	741724	80.90	UG/L	98
33)	2,4,6-Trichlorophenol	13.37	196.0	144929	79.49	UG/L	89
34)	2,4,5-Trichlorophenol	13.47	196.0	147274	79.00	UG/L	94
35)	2-Chloronaphthalene	13.76	162.0	319432	94.84	UG/L	94
36)	2-Nitroaniline	14.94	65.0	224830	93.93	UG/L	96
37)	Dimethylphthalate	14.45	163.0	457074	75.04	UG/L	92
38)	Acenaphthylene	14.64	152.0	546173	85.09	UG/L	83
39)	2,6-Dinitrotoluene	14.57	165.0	122299	75.25	UG/L	100
40)	3-Nitroaniline	14.92	138.0	114133	77.68	UG/L	100
41)	Acenaphthene	15.02	153.0	321185	85.58	UG/L	90
42)	2,4-Dinitrophenol	15.16	184.0	93677	87.39	UG/L	86

Operator ID: HAIYAN Quant Rev: 7 Quant Time: 940427 14:56
Output File: [illegible] Injected at: 940427 14:15
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible] Instrument ID: [illegible]
Misc: PTL# 1

ID File: IDSW01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 09:57 Last Qual Time: 940426 14:01

	Compound	R.T.	Q.ion	Area	Conc.	Units	q
48)	4-Nitrophenol	15.41	109.0	51828	110.01	UG/L	97
49)	Dibenzofuran	15.39	168.0	452823	83.71	UG/L	93
50)	Tetrachlorophenol	15.69	232.0	3913	1.95	UG/L	93
51)	2,4-Dinitrotoluene	15.42	165.0	129490	64.55	UG/L	77
52)	Diethylphthalate	15.97	149.0	499559	84.51	UG/L	100
53)	4-Chlorophenyl-phenylether	16.16	204.0	177041	80.61	UG/L	100
54)	Fluorene	16.12	166.0	335091	82.71	UG/L	100
55)	4-Nitroaniline	16.25	138.0	128967	73.22	UG/L	100
56)	2,4,6-Tribromophenol	16.15	329.0	129407	73.79	UG/L	100
57)	*Phenanthrene-d10	18.13	192.0	373880	40.00	UG/L	100
58)	4,6-Dinitro-2-methylphenol	16.30	198.0	128928	82.62	UG/L	100
59)	N-Nitrosodiphenylamine	16.47	169.0	282231	80.74	UG/L	100
60)	Benzidine	16.50	77.0	626370	86.88	UG/L	86
61)	4-Bromophenyl-phenylether	17.20	248.0	120322	74.91	UG/L	99
62)	alpha-BHC	17.22	181.0	84039	84.23	UG/L	97
63)	Hexachlorobenzene	17.30	283.7	195215	69.59	UG/L	99
64)	beta-BHC	17.79	181.0	62086	69.10	UG/L	90
65)	gamma-BHC (Lindane)	17.87	181.0	91901	81.11	UG/L	94
66)	Pentachlorophenol	17.74	266.0	111878	69.75	UG/L	100
67)	Phenanthrene	18.19	178.0	594730	83.26	UG/L	96
68)	delta-BHC	18.39	181.0	74888	80.45	UG/L	91
69)	Carbazole	18.68	167.0	590731	78.93	UG/L	97
70)	Anthracene	18.30	178.0	550439	73.71	UG/L	98
71)	Heptachlor	19.19	272.0	85320	74.14	UG/L	100
72)	Aldrin	19.86	66.0	106465	75.19	UG/L	100
73)	Di-n-butylphthalate	19.47	149.0	686219	65.34	UG/L	84
74)	Fluoranthene	20.73	202.0	651792	70.98	UG/L	100
75)	*Chrysene-d12	23.89	240.0	210176	40.00	UG/L	100
76)	Heptachlor epoxide	20.52	353.0	56198	71.76	UG/L	100
77)	Pyrene	21.22	202.0	565544	87.22	UG/L	99
78)	alpha-Endosulfan	21.20	195.0	17060	85.16	UG/L	87
79)	p,p'-DDE	21.49	246.0	125171	77.42	UG/L	85
80)	Dieldrin	21.66	79.0	133428	83.71	UG/L	85
81)	Endrin	22.03	263.0	30102	77.41	UG/L	100
82)	beta-Endosulfan	22.21	195.0	17305	81.08	UG/L	94
83)	p,p'-DDD	22.20	235.0	177216	74.90	UG/L	89
84)	Endrin aldehyde	23.70	67.0	56126	80.31	UG/L	69
85)	Endosulfan sulfate	22.84	272.0	36210	80.60	UG/L	81
86)	p,p'-DDT	22.83	235.0	153807	77.56	UG/L	95
87)	Butylbenzylphthalate	22.68	149.0	316762	84.71	UG/L	100
88)	3,3'-Dichlorobenzidine	23.82	252.0	129508	80.79	UG/L	99
89)	Benzo(a)anthracene	23.85	228.0	425365M	86.61	UG/L	95
90)	Chrysene	23.94	228.0	459878M	96.35	UG/L	100

Operator ID: HAIYAN
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Misc:

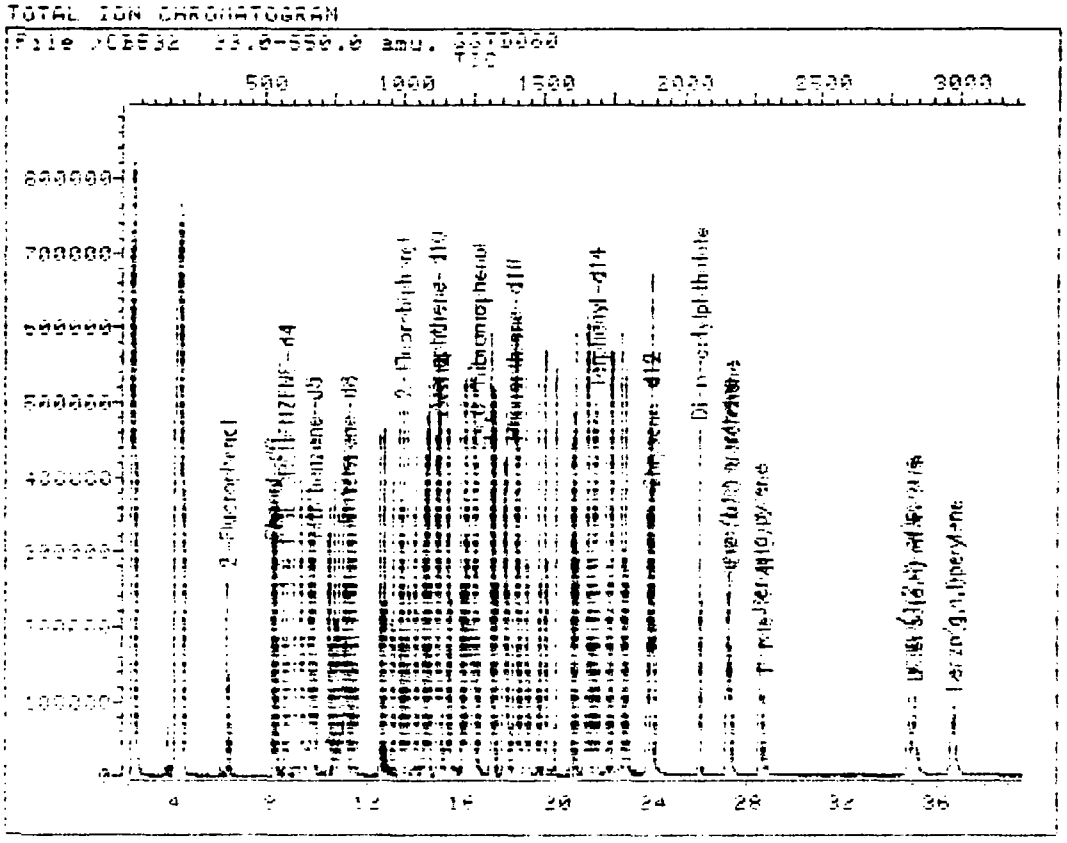
Quant Rev: 7
Quant Time: 940427 14:56
Injected at: 940427 14:15
Dilution Factor: 1.00000
Instrument ID: MSD100
STL# 1

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 09:57
Last Qcal Time: 940426 14:01

	Compound	R.T.	Q.ion	Area	Conc	Units	Q
91)	Bis(2-Ethylhexyl)phthalate	24.00	149.0	429920	105.01	UG/L	95
92)	Methoxychlor	23.74	227.0	265769	97.74	UG/L	44
93)	Terphenyl-d14	21.59	244.0	454990	79.95	UG/L	100
94)	*Perylene-d12	29.70	264.0	208229	40.00	UG/L	100
95)	[illegible]phthalate	25.90	149.0	721479M	72.40	UG/L	
96)	Benzo(b)fluoranthene	27.14	252.0	419266M	79.99	UG/L	
97)	Benzo(k)fluoranthene	27.95	252.0	419427M	79.49	UG/L	93
98)	Benzo(a)pyrene	29.44	252.0	399003	95.69	UG/L	97
99)	Indeno(1,2,3-cd)pyrene	34.75	276.0	303470M	107.99	UG/L	100
100)	Dibenzo(a,h)anthracene	35.01	279.0	303001M	106.94	UG/L	
101)	Benzo(g,h,i)perylene	36.44	276.0	347123M	114.24	UG/L	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CBE32::D4 Quant Output File: ^CBE32::D3
Name: SSTD060 Instrument ID: MSD100
Misc: BTL# 1

Id File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST #100
Last Calibration: 940424 00:57 Last Oral Time: 940426 14:01

Operator ID: HAIYAN
Quant Time : 940427 14:56
Injected at: 940427 14:15

QUANT REPORT

Operator ID: HAIYAN
Output File: [illegible]
Data File: [illegible]
Name: [illegible]
Misc:

Quant Rev: 7
Quant Time: 940525 14:15
Injected at: 940525 13:34
Dil Fac Factor: 1.00000
Instrument ID: MSD102
PTL# 1

ID File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 09:57
Last Qual Time: 940524 12:31

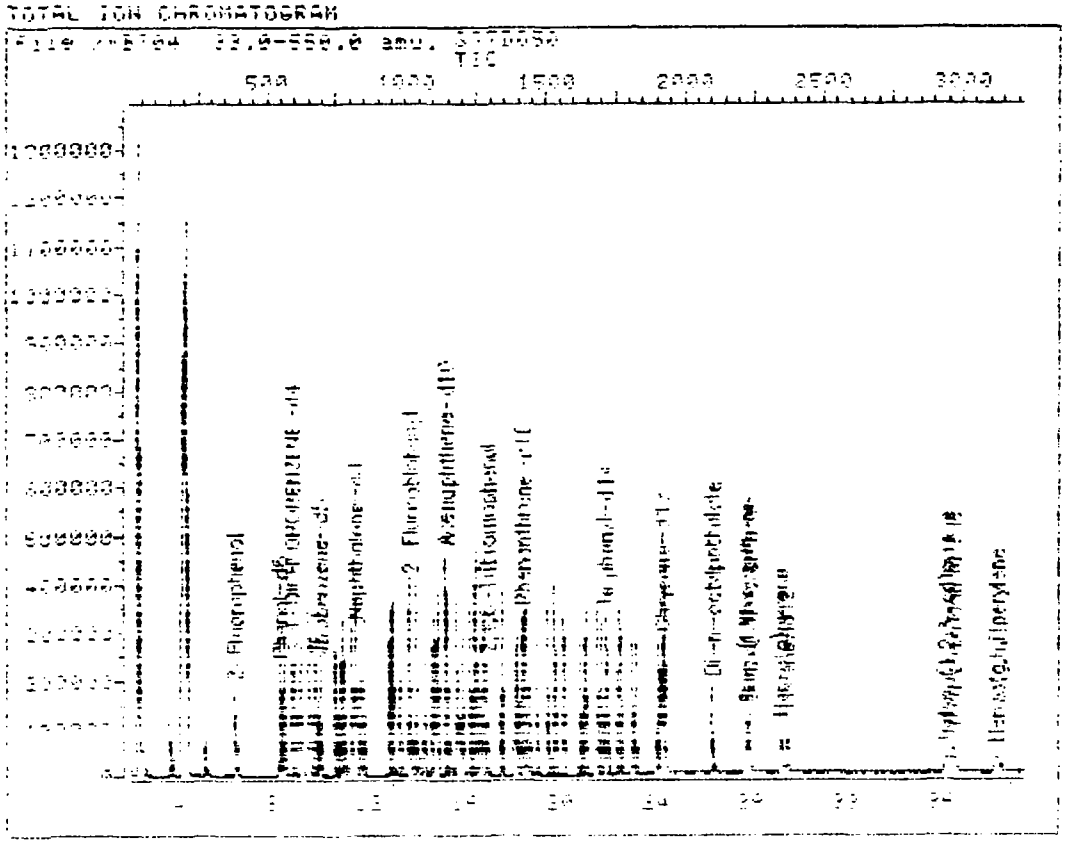
	Compound	R.T.	Quan	Area	Conc	Units	Q
1)	*1,4-DICHLOROBENZENE-d4	8.81	152.0	63045	40.00	UG/L	95
2)	Pyridine	3.65	79.0	77235	74.10	UG/L	98
3)	2-Picoline	5.08	93.0	99493	69.50	UG/L	99
4)	2-Fluorophenol	6.34	112.0	89885	70.64	UG/L	91
5)	Phenol	8.29	94.0	132549	65.25	UG/L	90
6)	bis(2-chloroethyl)ether	8.32	93.0	87990	64.64	UG/L	100
7)	2-Chlorophenol	8.43	108.0	119410	65.54	UG/L	92
8)	1,3-Dichlorobenzene	8.69	146.0	100756	60.20	UG/L	95
9)	1,4-Dichlorobenzene	8.84	146.0	101079	61.33	UG/L	98
10)	Phenol-d6	8.26	50.0	124010	69.10	UG/L	87
11)	Benzyl alcohol	9.17	108.0	65097	58.92	UG/L	100
12)	1,2-Dichlorobenzene	9.13	146.0	100097	61.07	UG/L	90
13)	2-Methylphenol	9.46	108.0	88656	65.64	UG/L	69
14)	bis(2-chloroisopropyl)ether	9.41	45.0	222704M	60.56	UG/L	100
15)	4-Methylphenol	9.78	108.0	98415	62.91	UG/L	79
16)	N-Nitroso-di-n-propylamine	9.70	70.0	91594	57.22	UG/L	100
17)	Hexachloroethane	9.91	117.0	44412	62.00	UG/L	93
18)	*Naphthalene-d8	11.44	136.0	262417	40.00	UG/L	96
19)	Nitrobenzene	10.00	77.0	113130	57.80	UG/L	73
20)	Isophorone	10.52	82.0	226384	56.30	UG/L	90
21)	2-Nitrophenol	10.66	139.0	91620	62.48	UG/L	90
22)	Nitrobenzene-d5	9.96	82.0	122416	61.09	UG/L	93
23)	2,4-Dimethylphenol	10.85	107.0	138513	63.60	UG/L	91
24)	Benzoic acid	11.26	122.0	54220M	49.34	UG/L	87
25)	bis(2-Chloroethoxy)methane	10.99	93.0	129397	59.45	UG/L	93
26)	2,4-Dichlorophenol	11.23	162.0	119436M	58.17	UG/L	91
27)	1,2,4-Trichlorobenzene	11.33	180.0	107934	55.75	UG/L	93
28)	Naphthalene	11.48	128.0	271399	60.34	UG/L	100
29)	4-Chloraniline	11.65	127.0	134320	55.79	UG/L	99
30)	Hexachlorobutadiene	11.75	225.0	74257	57.25	UG/L	99
31)	4-Chloro-3-methylphenol	12.79	107.0	140672	62.28	UG/L	100
32)	2-Methylnaphthalene	12.96	142.0	197451	58.33	UG/L	71
33)	*Acenaphthene-d10	15.20	164.0	156577	40.00	UG/L	100
34)	Hexachlorocyclopentadiene	13.29	237.0	67269	58.30	UG/L	97
35)	2-Fluorobiphenyl	13.79	172.0	212734	58.70	UG/L	93
36)	2,4,6-Trichlorophenol	13.60	196.0	109380	64.60	UG/L	91
37)	Toluenediamine	14.01	121.0	55099	68.95	UG/L	98
38)	2,4,5-Trichlorophenol	13.74	196.0	96997	58.64	UG/L	91
39)	2-Chloronaphthalene	14.01	162.0	208822	59.11	UG/L	95
40)	Dinitrobenzene	14.78	50.0	52341	64.29	UG/L	91
41)	2-Nitroaniline	14.29	65.0	102459	63.43	UG/L	94
42)	Dimethylphthalate	14.68	163.0	284869	53.42	UG/L	94
43)	Acenaphthylene	14.89	152.0	355355	61.54	UG/L	84

Operator ID: [illegible] Quant Rev: 7 Quant Time: 940525 14:15
Output File: [illegible] Injected at: 940525 13:34
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible] Instrument ID: [illegible]
Misc: PTL# 1

ID File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57 Last Qual Time: 940524 12:31

	Compound	R.T.	Q.Ion	Area	Conc.	Units	Q
44)	2,6-Dinitrotoluene	14.82	165.0	73094	56.16	UG/L	100
45)	3-Nitroaniline	15.19	138.0	59261	64.30	UG/L	100
46)	Acenaphthene	15.27	153.0	223909	58.91	UG/L	95
47)	2,4-Dinitrophenol	15.43	184.0	36144	50.85	UG/L	97
48)	4-Nitrophenol	15.73	109.0	28000	54.79	UG/L	93
49)	Dibenzofuran	15.65	169.0	336541	63.07	UG/L	90
50)	Tetrachlorophenol	15.[illegible]	232.0	97969	57.74	UG/L	90
51)	2,4-Dinitrotoluene	15.69	165.0	95014	50.48	UG/L	67
52)	Diethylphthalate	[illegible]	[illegible]	292193	52.17	UG/L	100
53)	4-Chlorophenyl-phenylether	16.41	204.0	120122	60.59	UG/L	100
54)	Fluorene	[illegible]	[illegible]	213193	61.29	UG/L	100
55)	4-Nitroaniline	16.53	138.0	64459	53.77	UG/L	100
56)	2,4,6-Tribromophenol	16.92	329.9	92129	60.27	UG/L	100
57)	*Phenanthrene-d10	18.42	188.0	307263	40.00	UG/L	100
58)	4,6-Dinitro-2-methylphenol	16.57	198.0	60794	64.18	UG/L	100
59)	N-Nitrosodiphenylamine	16.69	169.0	169329	65.18	UG/L	100
60)	Benzidine	16.75	77.0	245449	62.31	UG/L	99
61)	4-Bromophenyl-phenylether	17.46	248.0	92761	65.43	UG/L	92
62)	alpha-BHC	17.50	181.0	59445	67.67	UG/L	97
63)	Hexachlorobenzene	17.59	283.7	130712	59.79	UG/L	97
64)	beta-BHC	18.03	181.0	35565	60.45	UG/L	93
65)	gamma-BHC (Lindane)	18.14	181.0	49131	63.64	UG/L	97
66)	Pentachlorophenol	18.05	266.0	62109	60.64	UG/L	100
67)	Phenanthrene	18.48	178.0	324874	62.35	UG/L	91
68)	delta-BHC	18.70	181.0	40975	60.46	UG/L	91
69)	Carbazole	18.99	167.0	296662	59.54	UG/L	99
70)	Anthracene	18.59	178.0	329383	61.07	UG/L	99
71)	Heptachlor	19.48	272.0	57212	64.57	UG/L	100
72)	Aldrin	20.15	66.0	48167	68.78	UG/L	100
73)	Di-n-butylphthalate	19.73	149.0	405243	64.83	UG/L	84
74)	Fluoranthene	21.05	202.0	363086	61.09	UG/L	100
75)	*Chrysene-d12	24.29	240.0	204705	40.00	UG/L	100
76)	Heptachlor epoxide	20.82	353.0	36342	61.20	UG/L	100
77)	Pyrene	21.54	202.0	348235	56.95	UG/L	98
78)	alpha-Endosulfan	21.49	195.0	12739	58.86	UG/L	95
79)	p,p'-DDE	21.77	246.0	86743	58.93	UG/L	89
80)	Dieldrin	21.96	79.0	50493	56.94	UG/L	96
81)	Endrin	22.34	263.0	17386	52.24	UG/L	100
82)	beta-Endosulfan	22.53	195.0	11670	63.20	UG/L	90
83)	p,p'-DDD	22.50	235.0	134813	61.70	UG/L	88
84)	Endrin aldehyde	24.09	67.0	17293	66.17	UG/L	96
85)	Endosulfan sulfate	23.17	272.0	25316	63.53	UG/L	82
86)	p,p'-DDT	23.15	235.0	103872	63.53	UG/L	83

TOTAL ION CHROMATOGRAM



Data File: [illegible]
Name: [illegible]
Mode:

Quant Output File: [illegible]
Instrument ID: [illegible]

PTL# 1

[illegible]
[illegible]
[illegible]

Last Qual Time: [illegible]

Operator ID: [illegible]
Quant Time : [illegible] 14:15
Injected at: [illegible] 13:34

QUANT REPORT

Operator ID: [illegible]
Output File: [illegible]
[illegible]
[illegible]
[illegible]

Quant Rev: 7
Quant Time: 940526 12:03
Injected at: 940526 11:27
Dilution Factor: 1.00000
Instrument ID: [illegible]
STL# 1

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57
Last Qual Time: 940525 17:34

	Compound	R.T.	Quan	Area	Conc	Units	[illegible]
1)	*1,4-DICHLOROBENZENE-d4	9.79	152.0	66595	40.00	UG/L	96
2)	Pyridine	3.62	79.0	79334	48.64	UG/L	99
3)	2-[illegible]	5.05	97.0	94265	49.76	UG/L	94
4)	2-[illegible]rophenol	6.34	112.0	[illegible]	51.01	UG/L	[illegible]
5)	Phenol	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	bis(2-chloroethyl)ether	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7)	2-Chlorophenol	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8)	1,3-Dichlorobenzene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9)	1,4-Dichlorobenzene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10)	Phenol-d5	9.95	99.0	105943	48.05	UG/L	81
11)	Benzyl alcohol	9.14	108.0	[illegible]	[illegible]	UG/L	100
12)	1,2-Dichlorobenzene	9.11	146.0	105479	49.99	UG/L	99
13)	2-Methylphenol	9.45	108.0	93309	49.99	UG/L	99
14)	bis(2-chloroisopropyl)ether	9.39	45.0	232380M	49.41	UG/L	100
15)	4-Methylphenol	9.76	108.0	100894	49.51	UG/L	96
16)	N-Nitroso-di-n-propylamine	9.60	70.0	97294	50.29	UG/L	100
17)	[illegible]	9.79	117.0	43491	46.57	UG/L	99
18)	*Naphthalene-d8	11.40	136.0	277024	40.00	UG/L	99
19)	Nitrobenzene	9.97	77.0	116799	48.90	UG/L	76
20)	Isophorone	10.49	82.0	231431	48.40	UG/L	91
21)	2-Nitrophenol	10.63	139.0	93556	49.49	UG/L	92
22)	Nitrobenzene-d5	9.94	82.0	128236	49.61	UG/L	92
23)	2,4-Dimethylphenol	10.93	107.0	143454	49.05	UG/L	93
24)	Benzoic acid	11.23	122.0	43246M	37.79	UG/L	88
25)	bis(2-Chloroethoxy)methane	10.97	93.0	139942	51.22	UG/L	93
26)	2,4-Dichlorophenol	11.20	162.0	126609M	50.63	UG/L	90
27)	1,2,4-Trichlorobenzene	11.30	180.0	113979	50.02	UG/L	94
28)	Naphthalene	11.45	128.0	286072	49.92	UG/L	100
29)	4-Chloraniline	11.62	127.0	144356	50.90	UG/L	93
30)	Hexachlorobutadiene	11.72	225.0	75618	48.23	UG/L	89
31)	4-Chloro-3-methylphenol	12.76	107.0	144279	48.58	UG/L	100
32)	2-Methylnaphthalene	12.94	142.0	214765	51.52	UG/L	75
33)	*Acenaphthene-d10	15.17	164.0	158711	40.00	UG/L	100
34)	Hexachlorocyclopentadiene	13.25	237.0	65987	48.39	UG/L	90
35)	2-Fluorobiphenyl	13.74	172.0	220573	51.15	UG/L	95
36)	2,4,6-Trichlorophenol	13.60	196.0	113170	51.04	UG/L	92
37)	Toluenediamine	13.97	121.0	52622	47.11	UG/L	93
38)	2,4,5-Trichlorophenol	13.72	196.0	91196	46.38	UG/L	91
39)	2-Chloronaphthalene	13.97	162.0	218272	51.56	UG/L	95
40)	Dinitrobenzene	14.75	50.0	51522	48.56	UG/L	89
41)	2-Nitroaniline	14.27	65.0	101826	49.02	UG/L	93
42)	Dimethylphthalate	14.65	163.0	308093	53.35	UG/L	94
43)	Acenaphthylene	14.86	152.0	364953	50.66	UG/L	84

Operator ID: HAIYAN Quant Run: 7 Quant Time: 940526 12:07
Output File: MU8705:07 Injected at: 940524 11:27
Data File: MU8705:07 Dilution Factor: 1.00000
Type: SAMPLE Instrument ID: MSD102
Vial: PTL# 1

ID File: IDSM01::Ge
Title: SEMI-VOLATILES ID FILE - INST #102
Last Calibration: 940324 09:57 Last Cal' Time: 940525 17:34

	Compound	RT	RI	Area	Conc	Units	Q
44)	2,6-Dinitrotoluene	14.79	145.0	73747	49.37	UG/L	100
45)	3-Nitroaniline	15.14	139.0	61047	51.00	UG/L	100
46)	Acenaphthene	15.24	153.0	914193	51.79	UG/L	95
47)	2,4-Dinitrophenol	15.40	184.0	30999	54.44	UG/L	99
48)	4-Nitrophenol	15.59	139.0	78591	51.99	UG/L	99
49)	Dibenzofuran	15.40	168.0	774167	55.14	UG/L	99
50)	Pentachlorophenol	15.95	239.0	83996	47.11	UG/L	93
51)	2,4-Dinitrotoluene	15.44	165.0	100017	57.07	UG/L	44
52)	Diethylphthalate	16.39	149.0	993096	51.14	UG/L	100
53)	4-Chlorophenyl-phenylether	16.39	204.0	199004	57.04	UG/L	100
54)	Fluorene	16.75	166.0	919446	50.55	UG/L	100
55)	4-Nitroaniline	16.50	138.0	64474	49.49	UG/L	100
56)	2,4,6-Tribromophenol	16.90	329.0	90414	48.30	UG/L	100
57)	*Phenanthrene-d10	18.38	188.0	736965	40.00	UG/L	100
58)	4,6-Dinitro-2-methylphenol	16.54	198.0	46795	49.97	UG/L	100
59)	N-Nitrosodiphenylamine	16.64	169.0	199617	51.99	UG/L	100
60)	Pentachlorophenol	16.73	77.0	874159	22.11	UG/L	97
61)	4-Bromophenyl-phenylether	17.47	248.0	87794	47.33	UG/L	99
62)	alpha-BHC	17.14	181.0	47731	49.87	UG/L	98
63)	Hexachlorobenzene	17.66	283.0	176749	47.47	UG/L	99
64)	beta-BHC	18.02	181.0	77992	48.63	UG/L	93
65)	gamma-BHC (Lindane)	18.10	181.0	47380	45.14	UG/L	95
66)	Pentachlorophenol	18.03	266.0	49147	76.50	UG/L	100
67)	Phenanthrene	18.44	178.0	334499	47.24	UG/L	91
68)	delta-BHC	18.49	181.0	47966	49.20	UG/L	94
69)	Carbazole	18.94	167.0	314455	50.62	UG/L	99
70)	Anthracene	18.55	178.0	344546	49.11	UG/L	98
71)	Heptachlor	19.45	272.0	54934	45.55	UG/L	100
72)	Aldrin	20.11	66.0	47443	45.16	UG/L	100
73)	Di-n-butylphthalate	19.70	149.0	437091	49.02	UG/L	97
74)	Fluoranthene	21.02	202.0	409621	51.73	UG/L	100
75)	*Chrysene-d12	24.25	240.0	285528	40.00	UG/L	100
76)	Heptachlor epoxide	20.79	353.0	35671	48.98	UG/L	100
77)	Pyrene	21.51	202.0	379440	54.26	UG/L	99
78)	alpha-Endosulfan	21.47	195.0	13426	52.49	UG/L	96
79)	p,p'-DDE	21.74	246.0	90761	53.25	UG/L	99
80)	Dieldrin	21.92	79.0	54271	53.53	UG/L	90
81)	Endrin	22.31	263.0	21167	60.62	UG/L	100
82)	beta-Endosulfan	22.50	195.0	11979	51.12	UG/L	95
83)	p,p'-DDD	22.48	235.0	139611	51.57	UG/L	83
84)	Endrin aldehyde	24.05	67.0	18041	51.95	UG/L	99
85)	Endosulfan sulfate	23.13	272.0	25553	50.27	UG/L	93
86)	p,p'-DDT	23.11	235.0	108351	51.95	UG/L	85

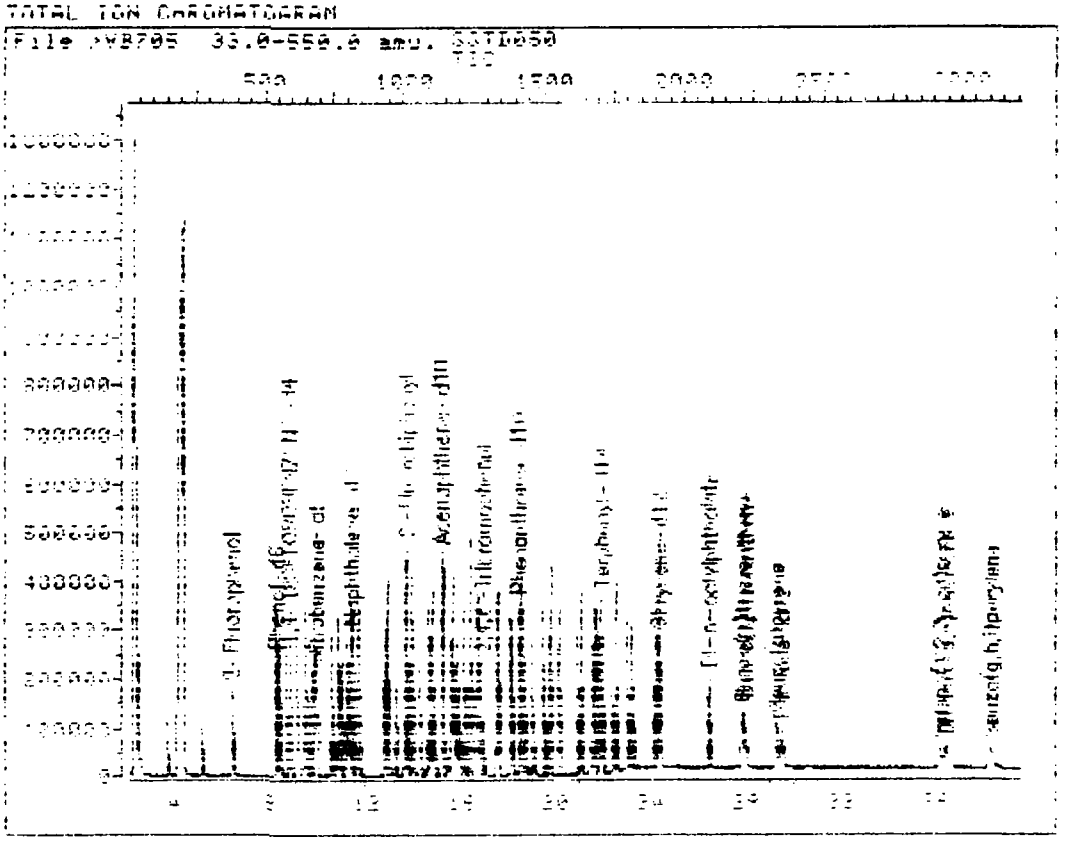
Operator ID: HAIYAN Quant Rev: 2 Quant Time: 940526 12:03
Output File: [illegible] Injected at: 940526 11:23
Data File: [illegible] Dilution Factor: 1.00000
Date: 940520 Instrument ID: [illegible]
Time: STD # 1

J File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 09:57 Last Qual Time: 940525 17:34

	Compound	R.T.	Conc.	Area	Resp.	Width	Q
[illegible]	Butylbenzylphthalate	[illegible]	[illegible]	157443	54.15	[illegible]	100
[illegible]	3,3'-Dichlorobenzidine	24.19	250.0	90745	47.76	[illegible]	92
[illegible]	Benzo(a)anthracene	24.00	200.0	330957	47.44	[illegible]	96
[illegible]	Chrysene	24.31	200.0	337070M	48.24	[illegible]	100
[illegible]	bis(2-Ethylhexyl)phthalate	24.31	100.0	149840	57.50	[illegible]	90
[illegible]	Methylchrysene	24.[illegible]	[illegible]	154450	59.79	[illegible]	44
[illegible]	Triphenylene	24.94	200.0	700740	54.33	[illegible]	100
[illegible]	*Benzo[illegible]	24.[illegible]	[illegible]	197445	49.[illegible]	[illegible]	100
[illegible]	[illegible]phthalate	24.37	100.0	310000	53.01	[illegible]	100
[illegible]	Benzo[illegible]chrysene	27.00	250.0	370070	60.00	[illegible]	97
[illegible]	Benzo(b)chrysene	27.00	250.0	374045M	61.00	[illegible]	99
[illegible]	Perylene	29.00	250.0	211094	60.00	[illegible]	91
[illegible]	Indeno(1,2,3-cd)pyrene	34.17	274.0	141371M	44.79	[illegible]	100
[illegible]	Dibenzo(a,h)anthracene	34.40	270.0	150400	47.07	[illegible]	97
[illegible]	Benzo(g,h,i)perylene	38.00	274.0	169463M	49.41	[illegible]	[illegible]

* Compound [illegible] INTD

TOTAL ION CHROMATOGRAM



Data File: [illegible] Quant Output File: [illegible]
Name: SSTD050 Instrument ID: MSD102
Misc: RTL# 1

Id File: [illegible]
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940724 [illegible] Last Cal Time: 940525 13:34

Operator ID: HAIYAN
Quant Time : 940526 12:03
Injected at: 940526 11:23

MQ 5/26/94

QUANT REPORT

Operator ID: RAIYAN Quant Rev: 7 Quant Time: 940525 15:09
Input File: ^84098::07 Injected at: 940525 14:48
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible] Instrument ID: MS0100
Vial: [illegible] BTL# 1

ok

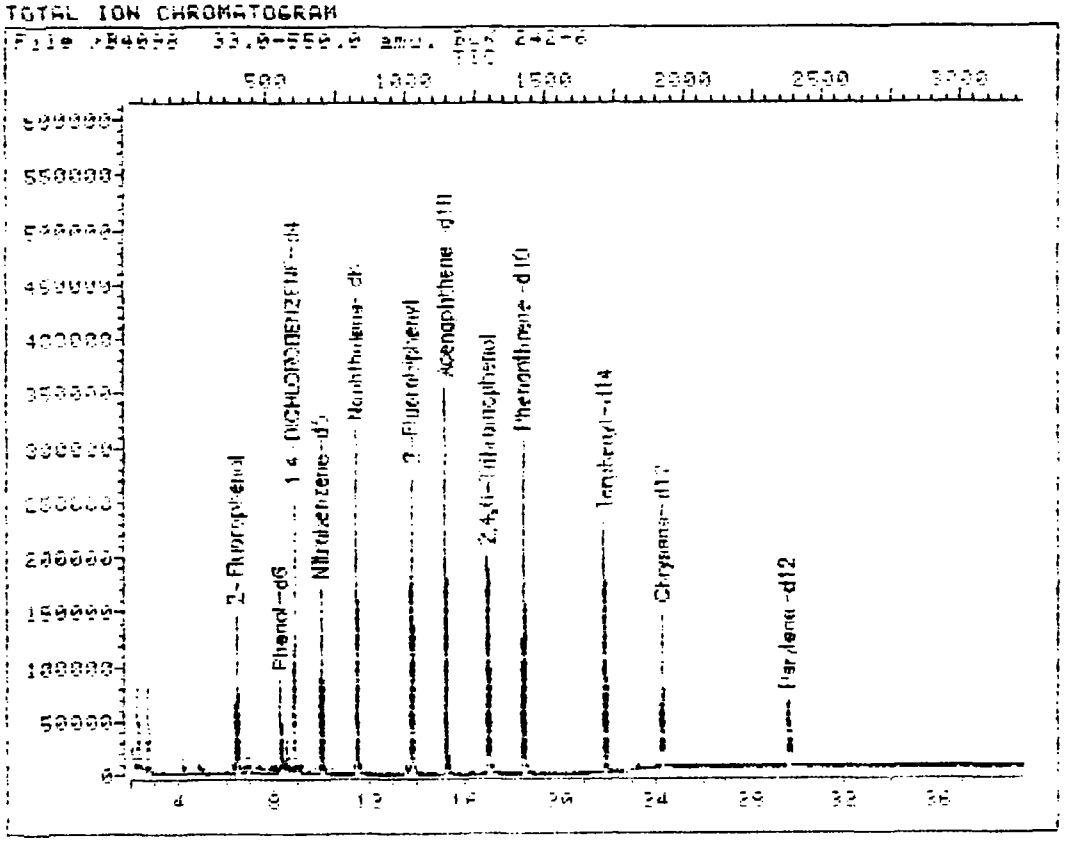
ID File: ICSM11::06
Title: SEMI-VOLATILES ID FILE - INST. #100
Last Calibration: 940324 09:57 Last Cral Time: 940525 13:34

	Compound	R.T.	Conc	Area	Conc	Units	S
[illegible]	*1,4-DICHLOROBENZENE-d4	9.80	102.0	70409	40.00	UG/L	96
43	2-Fluorophenol	6.36	110.0	81480	40.59	UG/L	84
10[illegible]	Phenol-d6	8.04	99.0	94708	39.59	UG/L	93
1[illegible]	*Naphthalene-d8	11.43	136.0	299097	40.00	UG/L	94
02[illegible]	Nitrobenzene-d5	9.94	82.0	89779	37.19	UG/L	92
[illegible]	*Acenaphthene-d10	15.00	164.0	193791	40.00	UG/L	100
[illegible]	2-Fluorobiphenyl	13.77	170.0	199499	39.97	UG/L	97
[illegible]	2,4,6-Tribromophenol	14.97	330.0	81904	47.72	UG/L	100
[illegible]	*Phenanthrene-d10	18.40	188.0	309495	40.00	UG/L	100
[illegible]	Dimethyl phthalate	19.77	163.0	7131	[illegible]	UG/L	99
[illegible]	*Chrysene-d12	24.09	240.0	179943	40.00	UG/L	100
[illegible]	Terphenyl-d14	21.99	244.0	204735	47.12	UG/L	100
2[illegible]	*Perylene-d12	29.54	244.0	147944	40.00	UG/L	100

Bor

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B4098::D7
Name: BLK 242-6
Misc:

Quant Output File: ^B4098::D3
Instrument ID: MSD102
BTL# 1

Id File: IDBW01::D6
Title: SEMI-VOLATILES ID FILE - INST #102
Last Calibration: 940324 09:57
Last Qual Time: 940525 13:34

Operator ID: HAIYAN
Quant Time : 940525 15:29
Injected at: 940525 14:48

MS data file header from : >B4098::D7

Sample: BLK ~~242-6~~ 246-2 Operator: HAIYAN REG. GRP. 5/25/94 14:48
Misc : BTL# 1
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 1 Equip ID: MSD102
Method file: BNA1M Tuning file: DFT1T No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	0.	0.	0.
Chromatographic times, min. :	3.0	14.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	.5	0.0

>B4098 BLK 242-6
33.0! 550.0 CLP TIC
Upslope: .2000 Area Reject: 38483. Max Peaks: 14 Bunch: 1 Valley >100 %
Dnslope: 0.0000 Results File IB4098 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	2.26	24	26	29	85572	138117	112649	13.34	2.523
2	2.62	53	57	61	80544	162155	134481	15.92	3.012
3	6.85	418	421	427	27979	67698	51856	6.14	1.162
4	8.26	539	542	544	85077	160644	150348	17.80	3.368
5	8.52	564	565	570	27283	70372	41116	4.87	.921
6	8.80	587	589	594	251190	471396	450129	53.30	10.083
7	9.94	686	687	696	169648	273969	262117	31.04	5.871
8	11.43	811	815	829	314394	683671	675025	79.93	15.121
9	13.77	1012	1016	1028	273354	631686	601512	71.22	13.474
10	15.20	1134	1139	1154	354492	855673	844540	100.00	18.918
11	16.99	1292	1293	1309	31386	123425	110020	13.03	2.464
12	18.42	1414	1416	1424	303958	670714	658584	77.98	14.752
13	24.33	1923	1924	1932	22438	95731	57055	6.76	1.278
14	29.58	2370	2374	2388	61479	417189	314871	37.28	7.053

Sum of corrected areas: 4464303.

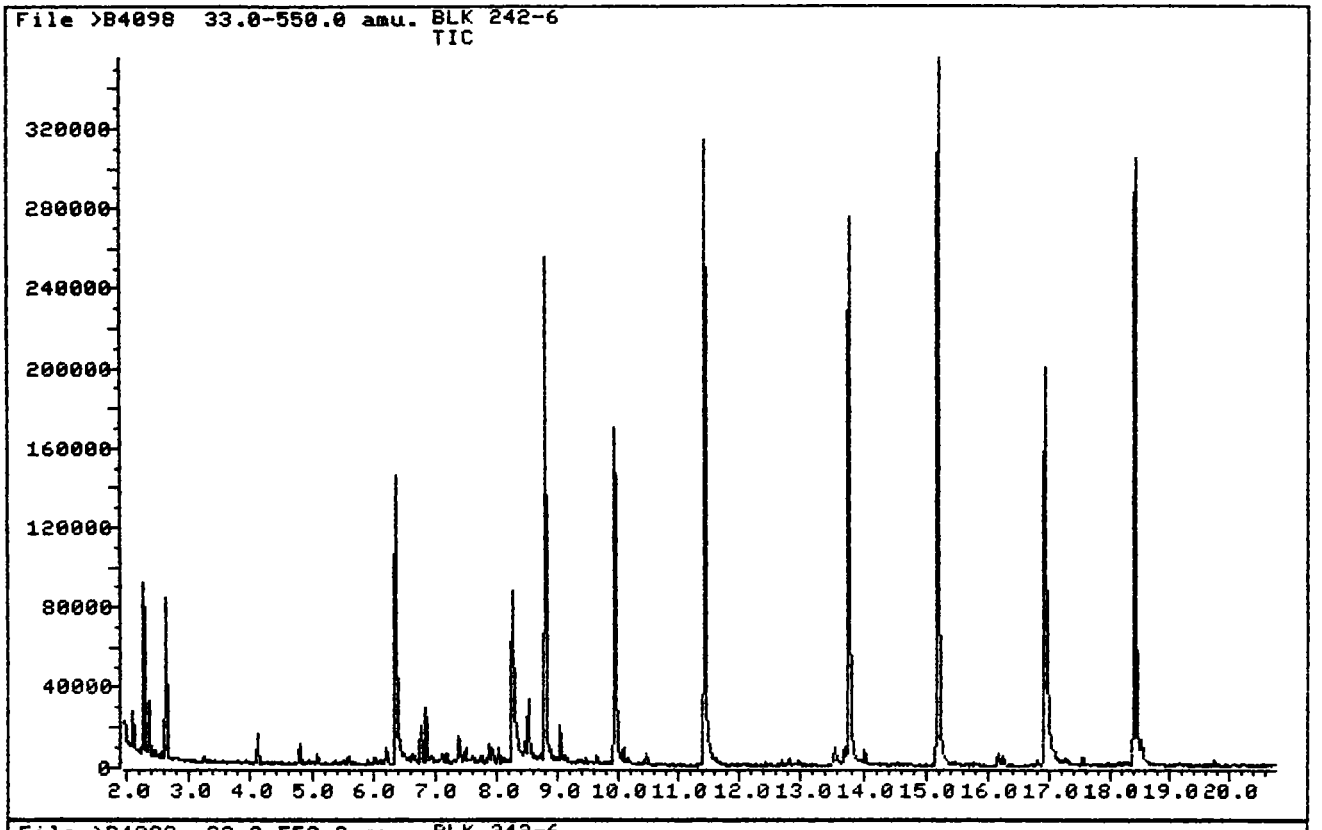
Summary of Unknowns PBM Library Search and Quantitation

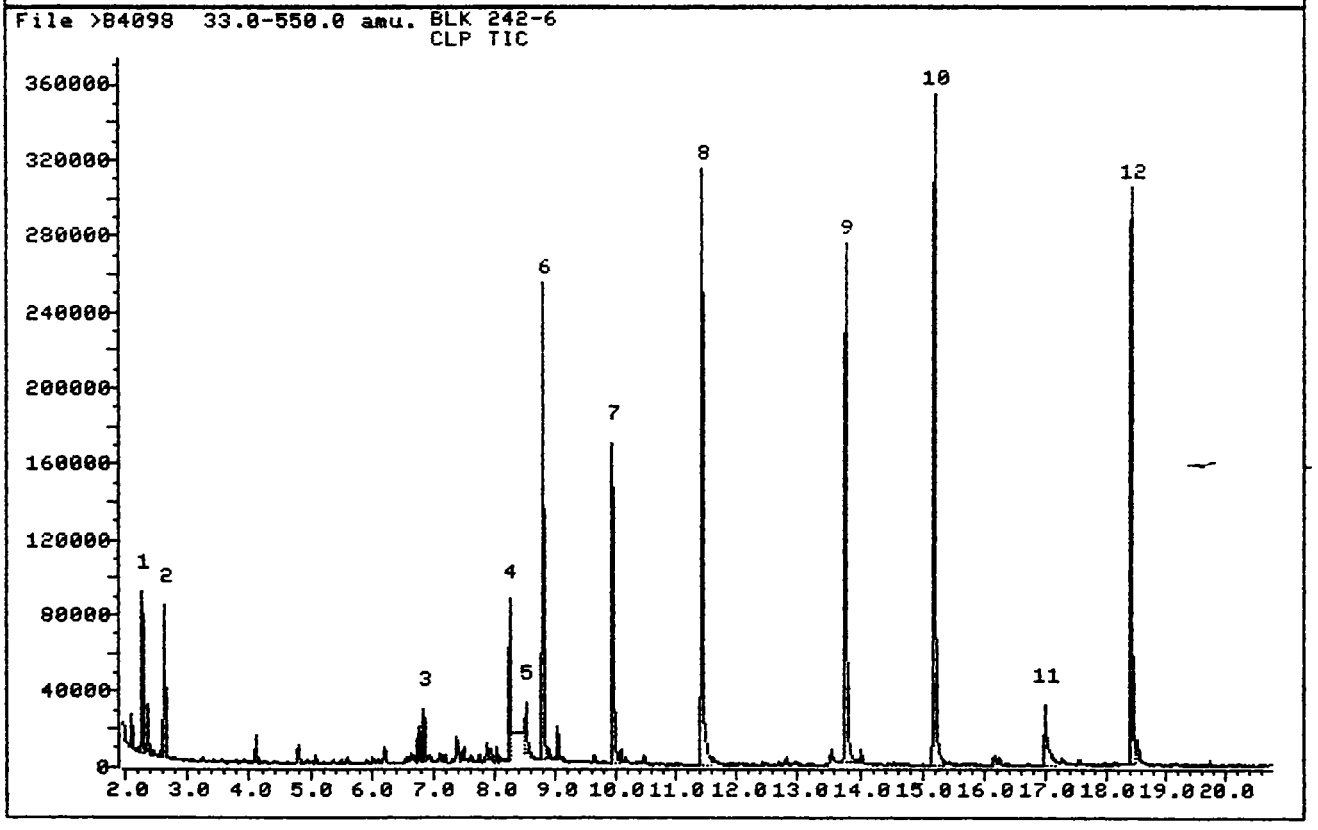
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	464706.	8.73	1.99 - 10.04
2	40.0	655584.	11.34	10.04 - 13.22
3	40.0	839483.	15.09	13.22 - 16.70
4	40.0	770515.	18.31	16.70 - 21.21
5	40.0	453412.	24.11	21.21 - 26.67
6	40.0	384827.	29.22	26.67 - 39.54

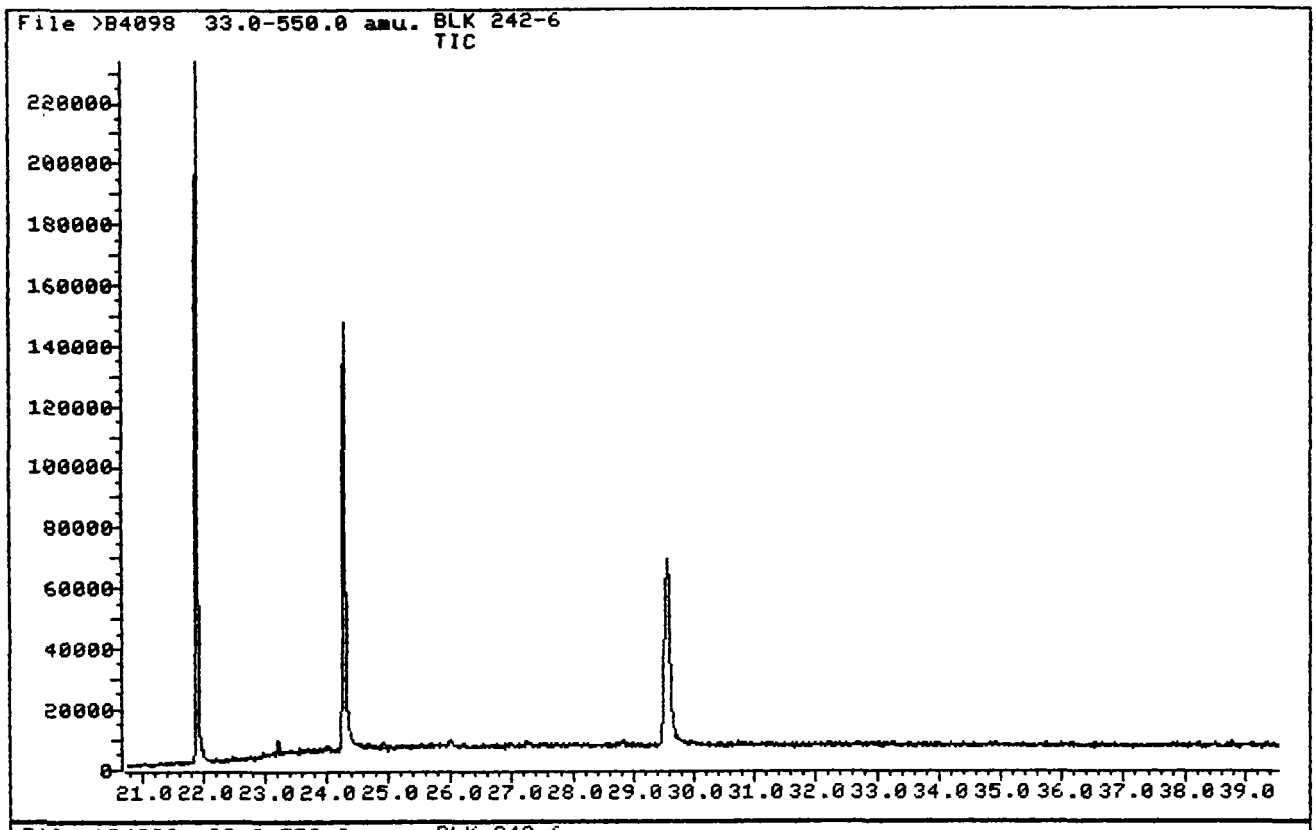
$$\text{Response Factor} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

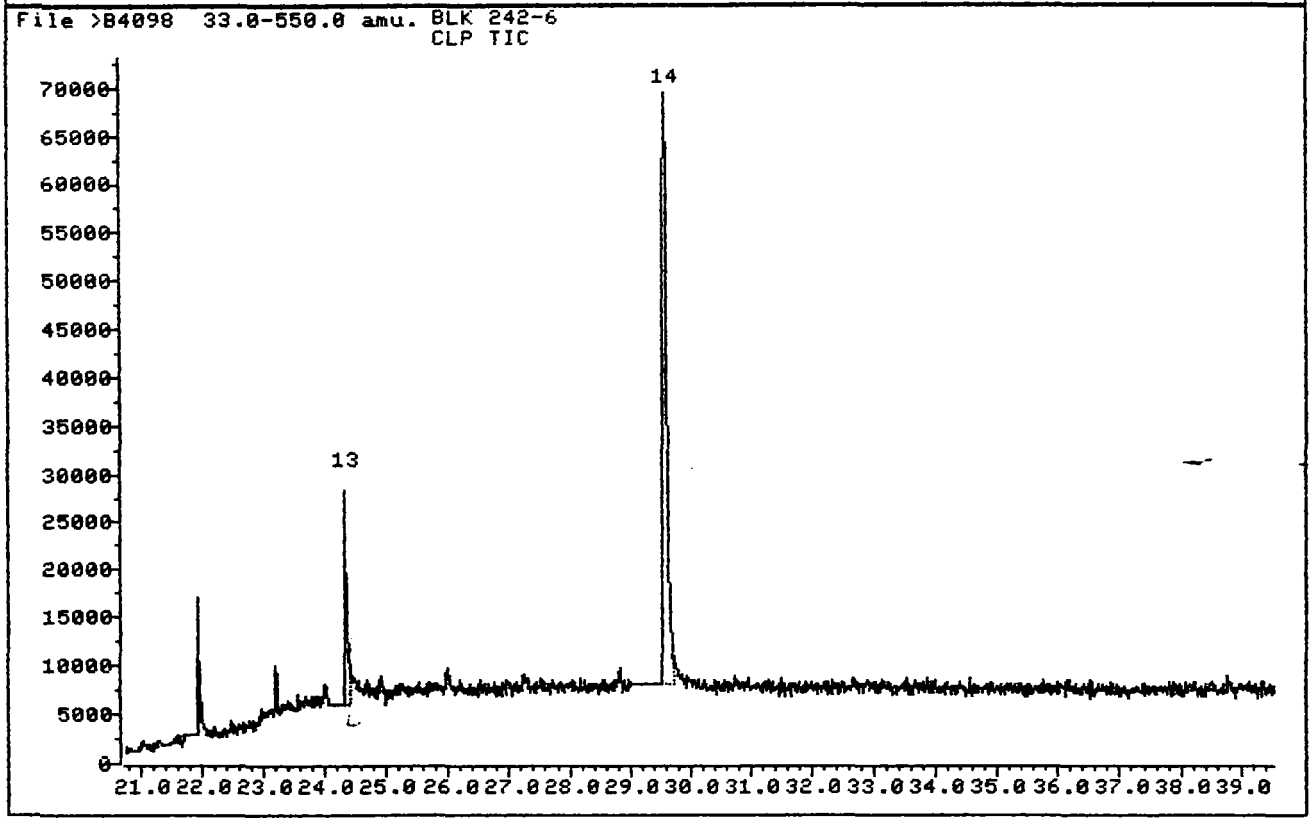
001458

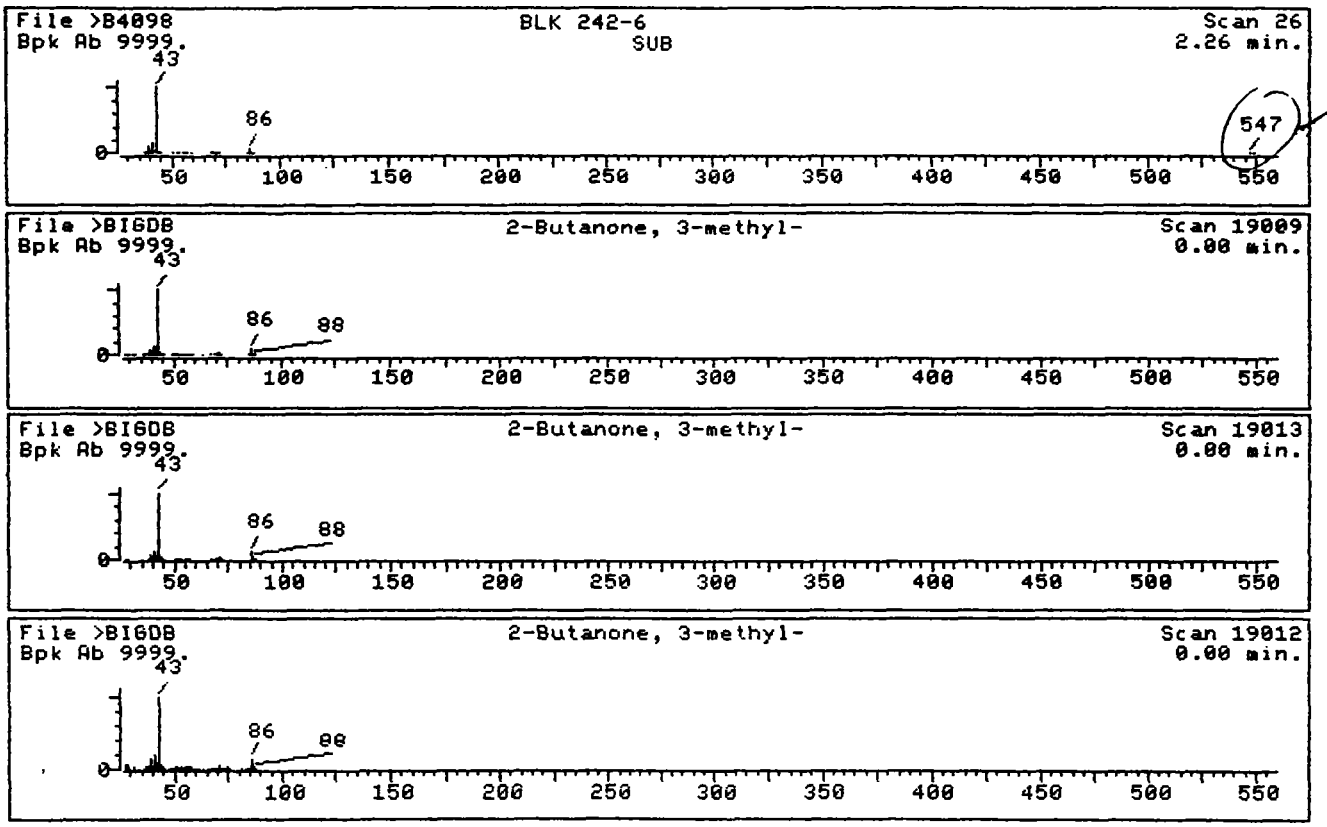
10:11 PM WED., 1 JUNE, 1994


File >B4098 33.0-550.0 amu. BLK 242-6
TIC
320000
280000
240000
200000
160000
120000
80000
40000
0
2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0


File >B4098 33.0-550.0 amu. BLK 242-6
CLP TIC
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
1
2
3
4
5
6
7
8
9
10
11
12
2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0


File >B4098 33.0-550.0 amu. BLK 242-6
TIC
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0


File >B4098 33.0-550.0 amu. BLK 242-6
CLP TIC
14
13
70000
65000
60000
55000
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0



HC 6/2/94

UNKNOWN #,1

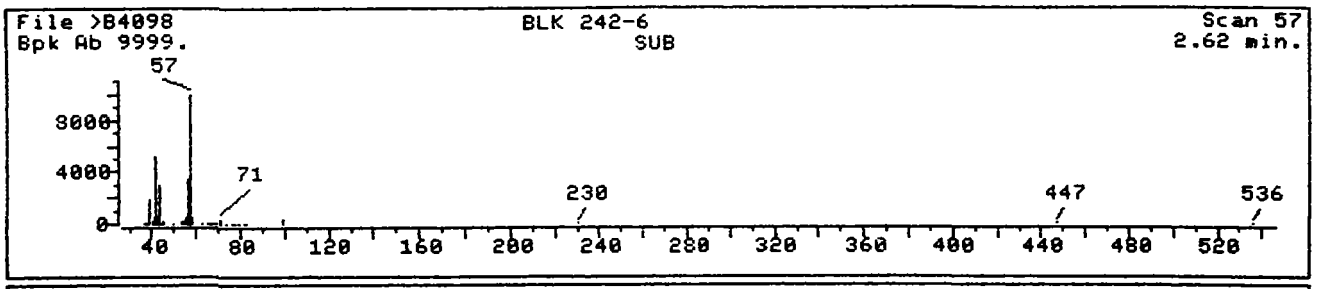
RT = 2.26 AREA 112649.0 RESPONSE FACTOR IS 9.70

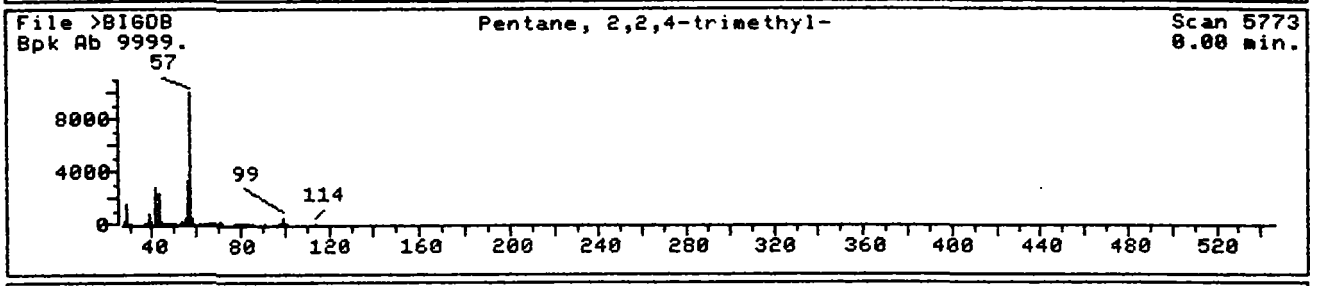
DATA FILE: >B4098::D7 DATE/TIME: 5/25/94 14:48 MASS SPEC # 1

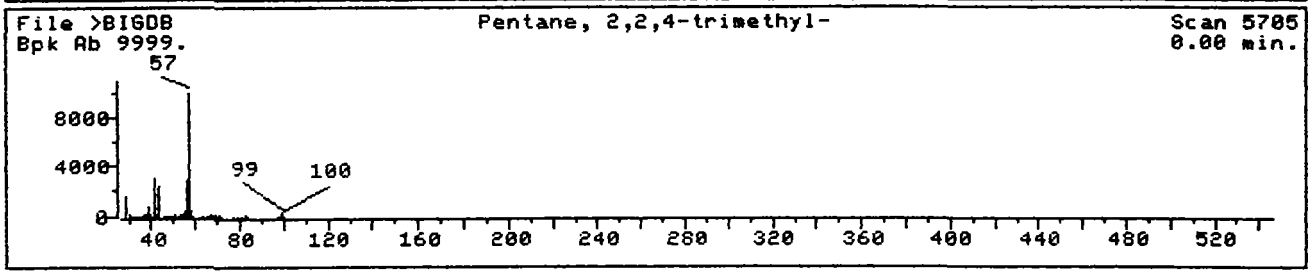
1. 2-Butanone, 3-methyl- 86 C5H10O
2. 2-Butanone, 3-methyl- 86 C5H10O
3. 2-Butanone, 3-methyl- 86 C5H10O

Sample file: >B4098 Spectrum #: 26
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	27*	563804	19009	"BIGDB	27	39	1	0	63	45	8	15
2.	26*	563804	19013	"BIGDB	22	41	1	0	55	42	8	14
3.	26*	563804	19012	"BIGDB	25	48	1	0	50	42	8	14







HO 6/2/94 ~~See attached~~ RQ

UNKNOWN #,2

RT = 2.62 AREA = 134481.0 RESPONSE FACTOR IS 12.00

DATA FILE: >B4098::D7 DATE/TIME: 5/25/94 14:48 MASS SPEC # 1

1. Pentane, 2,2,4-trimethyl- 114 C8H18
2. Pentane, 2,2,4-trimethyl- 114 C8H18

Sample file: >B4098 Spectrum #: 57
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	540841	5773	"BIGDB	35	39	2	0	100	14	30	12
2.	60	540841	5705	"BIGDB	40	32	1	0	100	12	30	14

HC 5/23/94.

FMGR : QREP,"B4059,,QQ

QUANT REPORT

Operator ID: SUSIN
Output File: ^B4059::D2
Data File: >B4059::D7
Name: C156542 MS
Misc:

Quant Rev: 7
Quant Time: 940519 15:43
Injected at: 940519 14:49
Dilution Factor: 1.00000
Instrument ID: MSD102
BTL# 2

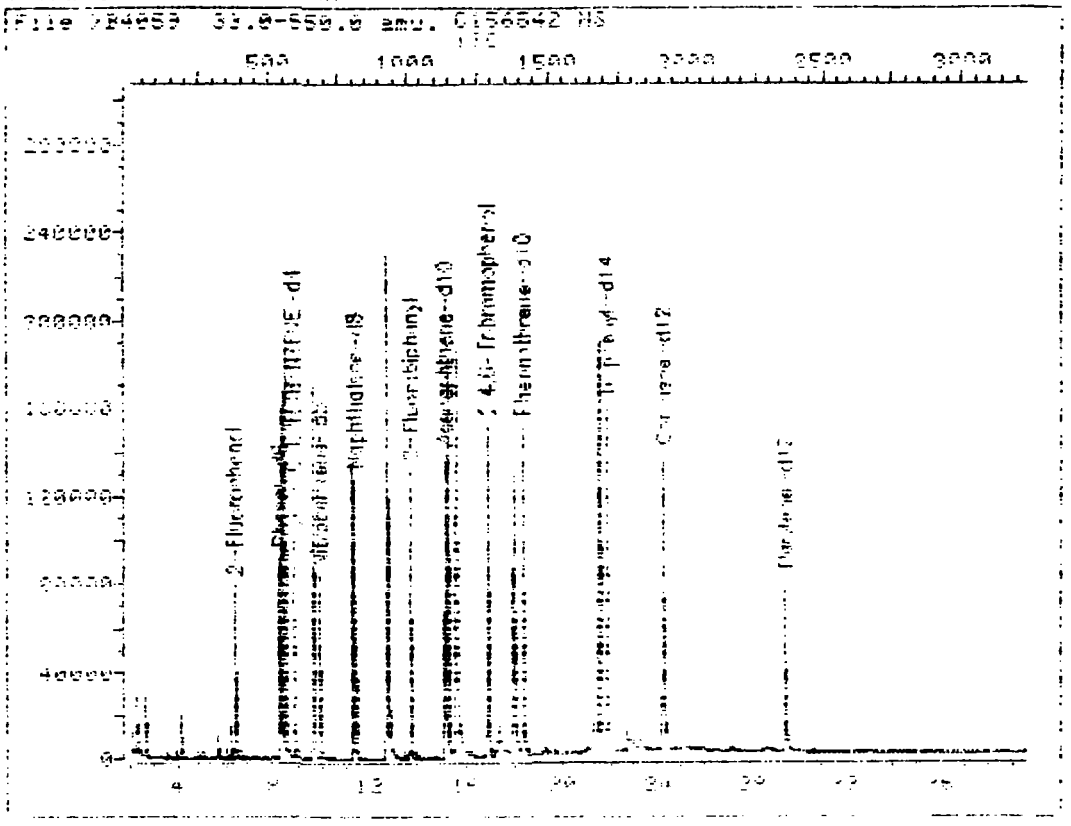
OK/

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57
Last Qcal Date: 940519 12:40

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	8.77	152.0	20991	40.00	UG/L	91
4)	2-Fluorophenol	6.32	112.0	32387	59.56	UG/L	63
5)	Phenol	8.26	94.0	85035	95.97	UG/L	92
7)	2-Chlorophenol	8.39	128.0	71981	108.54	UG/L	84
8)	1,3-Dichlorobenzene	8.81	146.0	40935	~~71.20 UG~~/L	bad r.t.	98
9)	1,4-Dichlorobenzene	8.81	146.0	40935	74.04	UG/L	98
10)	Phenol-d6	8.23	99.0	50140	63.75	UG/L	81
16)	N-Nitroso-di-n-propylamine	9.65	70.0	66151	79.80	UG/L	100
18)	*Naphthalene-d8	11.39	136.0	94268	40.00	UG/L	86
22)	Nitrobenzene-d5	9.91	82.0	48808	47.30	UG/L	82
27)	1,2,4-Trichlorobenzene	11.29	180.0	43471	68.29	UG/L	99
31)	4-Chloro-3-methylphenol	12.74	107.0	140328	132.41	UG/L	100
33)	*Acenaphthene-d10	15.16	164.0	62548	40.00	UG/L	100
35)	2-Fluorobiphenyl	13.73	172.0	73319	46.01	UG/L	98
46)	Acenaphthene	15.23	153.0	103473	64.07	UG/L	93
48)	4-Nitrophenol	15.67	109.0	17338M	46.67	UG/L	79
51)	2,4-Dinitrotoluene	15.63	165.0	74247	78.71	UG/L	88
56)	2,4,6-Tribromophenol	16.88	329.8	55489	67.36	UG/L	100
57)	*Phenanthrene-d10	18.37	188.0	129382	40.00	UG/L	100
66)	Pentachlorophenol	17.99	266.0	52700	90.27	UG/L	100
75)	*Chrysene-d12	24.20	240.0	156689	40.00	UG/L	100
77)	Pyrene	21.48	202.0	272830M	73.97	UG/L	98
91)	bis(2-Ethylhexyl)phthalate	24.30	149.0	9258	~~4.45~~	UG/L BOL	99
93)	Terphenyl-d14	21.84	244.0	154455	46.00	UG/L	100
94)	*Perylene-d12	29.40	264.0	176106	40.00	UG/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B4059::D2 Quant Output File: ^B4059::D2

Name: C156542 MS Instrument ID: MS0100

Trac: RU # 2

Q File: [illegible]

Title: SEMI-VOLATILES [illegible]

Last Cal Verification: 940304 09:52 Last Oral Time: 940619 12:40

Operator ID: [illegible]

Quant Time : 940619 15:43

Injected at: 940619 14:49

FMGR : QREP,^B4060,,QQ

HB 5/23/94.

QUANT REPORT

Operator ID: HAIYAN
Output File: ^B4060::D2
Data File: >B4060::D7
Name: C156542 MSD
Misc:

Quant Rev: 7
Quant Time: 940519 16:31
Injected at: 940519 15:51
Dilution Factor: 1.00000
Instrument ID: MSD102
BTL# 3

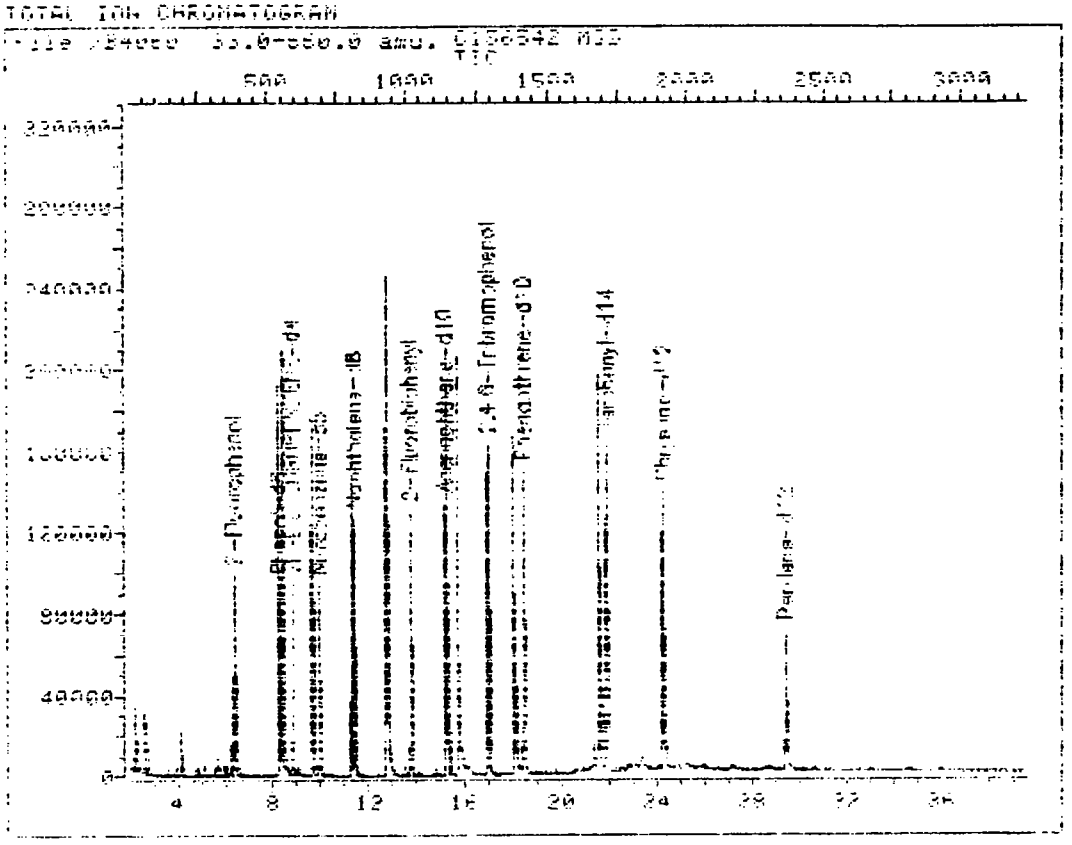
ok /

ID File: IDSV01::D6
Title: SEMI-VOLATILES ID FILE - INST. #102
Last Calibration: 940324 08:57
Last Qcal Date: 940519 12:40

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	8.77	152.0	20287	40.00	UG/L	97
4)	2-Fluorophenol	6.32	112.0	39500	75.17	UG/L	63
5)	Phenol	8.26	94.0	94818	110.73	UG/L	79
7)	2-Chlorophenol	8.40	128.0	85172	132.88	UG/L	79
8)	1,3-Dichlorobenzene	8.80	146.0	43459	~~79.21~~	UG/L pal 2/95	
9)	1,4-Dichlorobenzene	8.80	146.0	43459	81.33	UG/L	95
10)	Phenol-d6	8.22	99.0	54064	71.13	UG/L	77
16)	N-Nitroso-di-n-propylamine	9.65	70.0	75888	94.73	UG/L	100
18)	*Naphthalene-d8	11.39	136.0	94185	40.00	UG/L	86
22)	Nitrobenzene-d5	9.92	82.0	50459	48.94	UG/L	80
27)	1,2,4-Trichlorobenzene	11.29	180.0	44217	69.52	UG/L	95
31)	4-Chloro-3-methylphenol	12.75	107.0	143547	135.56	UG/L	100
33)	*Acenaphthene-d10	15.15	164.0	63479	40.00	UG/L	100
35)	2-Fluorobiphenyl	13.72	172.0	75458	45.66	UG/L	97
46)	Acenaphthene	15.23	153.0	109747	66.96	UG/L	95
48)	4-Nitrophenol	15.66	109.0	29359M	77.87	UG/L	75
51)	2,4-Dinitrotoluene	15.64	165.0	70516	73.66	UG/L	99
56)	2,4,6-Tribromophenol	16.88	329.8	60788	72.71	UG/L	100
57)	*Phenanthrene-d10	18.37	188.0	131617	40.00	UG/L	100
66)	Pentachlorophenol	17.99	266.0	70648	118.96	UG/L	100
75)	*Chrysene-d12	24.20	240.0	159981	40.00	UG/L	100
77)	Pyrene	21.48	202.0	279017	74.09	UG/L	99
91)	bis(2-Ethylhexyl)phthalate	24.30	149.0	10969	5.15	UG/L	94
93)	Terphenyl-d14	21.84	244.0	153509	44.78	UG/L	100
94)	*Perylene-d12	29.40	264.0	160019	40.00	UG/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: [illegible]
Name: [illegible]
Misc:

Quant Output File: [illegible]
Instrument ID: [illegible]

RTL # 3

[illegible]
Title: SEMI-VOLATILES ID FILE - [illegible]
Last Calibration: 940324 [illegible]
Last Qual Time: 940519 [illegible]

Operator ID: [illegible]
Quant Time : 940519 14:31
Injected at: 940519 15:51

001406

HTC
Semi-Volatiles

This package contains all of the data associated with the semi-volatiles analyses of soil samples C156680 - 689, C156710 - 719, C156765 - 769, and C156812 - 816.

Only 10g of sample was extracted for samples C156715, C156717, C156718, C156719, C156766, C156767, and C156768 due to their wet sample matrices. Sample C156685, C156712, C156713, and C157816 would only concentrate down to 2 mLs, instead of the normal final volume of 1 mL. Samples C156685, C156686, C156687, C156688, C156710, C156711, C156712, C156713, and C156767 had to be reanalyzed and reported at 1:5 dilutions due to low internal standard area counts from matrix interferences.

The matrix spike and matrix spike duplicate were performed on sample C156716.

Susan J. Bussey

Susan J Bussey

Semi-Volatiles Group Leader

recycled paper

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

b me: _____ Contract: _____

o Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

vel: (low/med) _____

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	BLK 245-2	65	111	88	84	61	73		0
02	C156680	67	116	96	85	66	101		0
03	C156681	68	113	93	89	68	93		0
04	C156682	70	114	87	76	97	89		0
05	C156683	64	102	86	89	72	83		0
06	C156684	72	113	78	69	88	93		0
07	C156685 1:5	D	D	D	D	D	D		
08	C156686 1:5	76	*145	100	108	53	101		1
09	C156687 1:5	87	*159	111	*122	68	116		2
10	C156688 1:5	81	*120	113	105	62	113		1
11	C156689	70	113	86	100	69	73		0
12	C156710 1:5	81	*142	107	108	64	103		1
13	C156711 1:5	78	*148	103	113	62	82		1
14	BLK 245-3	44	64	75	53	61	50		0
15	C156712 1:5	D	D	D	D	D	D		
16	C156713 1:5	D	D	D	D	D	D		
17	C156714	77	101	93	104	87	58		0
18	C156715	68	82	81	68	95	59		0
19	C156719	72	85	101	93	103	55		0
20	C156718	58	80	91	108	83	58		0
21	C156717	87	86	99	71	101	55		0
22	BLK 247-2	71	92	98	95	105	65		0
23	C156716	61	98	106	81	97	49		0
24	C156716 MS	65	103	115	98	96	60		0
25	C156716 MSD	63	96	91	111	92	54		0
26	C156767 1:5	D	D	D	D	D	D		
27	C156765	77	115	104	87	*126	68		1
28	C156766	74	*124	122	108	*154	59		2
29	C156768	87	*132	106	80	*122	47		1
30	C156769	81	116	103	80	88	53		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d6	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

ıb me: _____ Contract: _____

ɔ Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

ɜvel: (low/med) _____

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	C156812	62	87	100	64	85	71	/	0
02	C156813	54	79	91	44	69	64	/	0
03	C156814	62	95	108	65	87	70	/	0
04	C156815	59	100	88	64	79	76	/	0
05	C156816 1:5	74	118	101	77	59	55	/	0
06	~~C15~~ 1:5								
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d6	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

lame: Heritage Laboratories, Inc. Contract: _____

Lab Code: EMSIN Case No.: _____ SAS No.: _____ SDG No.: _____

Analyst: HA 2443 Sample No.: C156716 MS File: B4092 Date/Time: 052494/18:10 V8393 #6
Level : (low/med) low MSD File: B4093 Date/Time: 052494/18:59 V8393 #7

QC#: Q926601 COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	6670	0	4400	66.0	26- 90
2-Chlorophenol	6670	0	4800	72.0	25-102
1,4-Dichlorobenzene	3330	0	2030	61.0	28-104
N-Nitroso-di-n-prop.	3330	0	2930	88.0	41-126
1,2,4-Trichlorobenze	3330	0	2200	66.1	38-107
4-Chloro-3-methylphe	6670	0	3970	59.5	26-103
Acenaphthene	3330	0	2370	71.2	31-137
4-Nitrophenol	6670	0	3900	58.5	11-114
2,4-Dinitrotoluene	3330	0	1530	45.9	28- 89
Pentachlorophenol	6670	0	5230	78.4	17-109
Pyrene	3330	0	3100	93.1	35-142

QC#: Q926602 MPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	6670	4630	69.4	5.0	35	26- 90
2-Chlorophenol	6670	5030	75.4	4.6	50	25-102
1,4-Dichlorobenzene	3330	2200	66.1	8.0	27	28-104
N-Nitroso-di-n-prop.	3330	3200	96.1	8.8	38	41-126
1,2,4-Trichlorobenze	3330	2230	67.0	1.4	23	38-107
4-Chloro-3-methylphe	6670	4300	64.5	8.1	33	26-103
Acenaphthene	3330	2600	78.1	9.2	19	31-137
4-Nitrophenol	6670	4500	67.5	14.3	50	11-114
2,4-Dinitrotoluene	3330	1700	51.1	10.7	47	28- 89
Pentachlorophenol	6670	5570	83.5	6.3	47	17-109
Pyrene	3330	3900	117.1	22.8	36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS:

METHOD BLANK SUMMARY

Case No. _____ Laboratory Name _____

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
Blk 245-2 (D2825)	5/18/94	BNA	Soil		#123		—	—	ug/kg	
Blk 245-3 (B4076)	5/20/94	BNA	Soil		#102		—	—	ug/kg	
Blk 267-2 (B4087)	5/24/94	BNA	Soil		#102		—	—	ug/kg	

Comments:

FORM IV

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: TB510 DFTPP Injection Date: 5/18/94

Instrument ID: 102 DFTPP Injection Time: 10:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.60
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	~~66~~ 65.66
70	Less than 2.0% of mass 69	.39 (.60)1
127	40.0 - 60.0% of mass 198	40.31
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.16
275	10.0 - 30.0% of mass 198	20.60
365	Greater than 1.00% of mass 198	2.53
441	Present, but less than mass 443	9.67 (79.32)
442	Greater than 40.0% of mass 198	64.97
443	17.0 - 23.0% of mass 442	12.19 (18.77)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	C156509 MS	~~B4054~~ JB	B4054	5/18/94	20:10
02	C156509 MSD	~~B4055~~ ↓	B4055	↓	21:00
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: TB698 DFTPP Injection Date: 4/27/94.

Instrument ID: #102 DFTPP Injection Time: 9:49.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.44
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	68.36
70	Less than 2.0% of mass 69	0.23 (0.34)1
127	40.0 - 60.0% of mass 198	40.74
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.72
275	10.0 - 30.0% of mass 198	20.98
365	Greater than 1.00% of mass 198	1.72
441	Present, but less than mass 443	8.35 (73.86)
442	Greater than 40.0% of mass 198	59.21
443	17.0 - 23.0% of mass 442	11.28 (19.06)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050		VB685	4/27/94	10:14
02	SSTD160		CB529	↓	11:06
03	SSTD120		CB530	↓	12:29
04	SSTD020		CB531	↓	13:19
05	SSTD080		CB532	↓	14:15
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SEMI-VOLATILE ORGANIC GC/MS TUNING and MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHENE (DFTPP)

LAB NAME: EMS LABS, Darien

LAB FILE NO.: TD501.

INSTRUMENT ID: #123

MATRIX (soil/water): _____

DFTPP INJECTION DATE: 5/16/94.

DFTPP INJECTION TIME: 9:39.

COLUMN: DB-5 CAP

/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	58.38
68	Less than 2.0 % of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	88.01
70	Less than 2.0 % of mass 69	0.00 (0.00) 1
27	40.0 - 60.0 % of mass 198	45.10
97	Less than 1.0 % of mass 198	0.00
.98	Base peak, 100 % relative abundance	100.00
.99	5.0 - 9.0 % of mass 198	6.50
275	10.0 - 30.0 % of mass 198	14.37
365	Greater than 1.00 % of mass 198	1.09
1	Present, but less than mass 443	7.03 (21.94)
442	Greater than 40.0 % of mass 198	47.88
443	17.0 - 23.9 % of mass 442	9.25 (19.33) 2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS

	LAB - SAMPLE NO.	Client SAMPLE NO.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
1.	SSTD050.		VD506	5/16/94	10:06
2.	SSTD020		CD311.	↓	12:02
3.	SSTD120		CD312		12:54
4.	SSTD080		CD313		14:01
5.	SSTD160		CD314		14:53
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

SEMI-VOLATILE ORGANIC GC/MS TUNING and MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHENE (DFTPP)

LAB NAME: EMS LABS, Darien

LAB FILE NO.: TD503.

INSTRUMENT ID: #123.

MATRIX (soil/water): _____

DFTPP INJECTION DATE: 5/18/94

DFTPP INJECTION TIME: 15:00

COLUMN: DB-5 CAP

/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	54.85
68	Less than 2.0 % of mass 69	0.39 (0.49) 1
69	Mass 69 relative abundance	78.37
70	Less than 2.0 % of mass 69	0.32 (.41) 1
27	40.0 - 60.0 % of mass 198	40.64
97	Less than 1.0 % of mass 198	0.00
.98	Base peak, 100 % relative abundance	100.00
.99	5.0 - 9.0 % of mass 198	6.63
:75	10.0 - 30.0 % of mass 198	18.05
'65	Greater than 1.00 % of mass 198	2.46
1	Present, but less than mass 443	8.19 (75.18)
442	Greater than 40.0 % of mass 198	54.89
443	17.0 - 23.9 % of mass 442	10.90 (19.85) 2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS

LAB SAMPLE NO.	Client SAMPLE NO.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
1. SSTB050		VD508	5/18/94	15:24
2. Blk 245-2		D2825		16:19
3. C156680		D2826		17:09
4. C156681		D2827		17:59
5. C156682		D2828		18:49
6. C156683		D2829		19:39
7. C156684		D2830		20:30
8. C156685 1:5		D2831		21:20
9. C156686 1:5		D2832		22:11
10. C156687 1:5		D2833		23:02
11. C156688 1:5		D2834		23:53
12. C156689		D2835	5/19/94	0:44
13. C156710 1:5		D2836		1:35
14. C156711 1:5		D2837		2:25
15.				
16.				
17.				
18.				
19.				
20.				

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

___ Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: TB512 DFTPP Injection Date: 5/20/94

Instrument ID: #102 DFTPP Injection Time: 14:26.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.23
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	56.91
70	Less than 2.0% of mass 69	0.50 (0.00)1
127	40.0 - 60.0% of mass 198	40.99
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	8.52
275	10.0 - 30.0% of mass 198	24.20
365	Greater than 1.00% of mass 198	3.32
441	Present, but less than mass 443	13.05 (84.63)
442	Greater than 40.0% of mass 198	76.73
443	17.0 - 23.0% of mass 442	15.42 (20.09)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050		VB700	5/20/94	15:57
02	Blk 245-3		B4076		17:30
03	C156712 1:5		B4077		18:19
04	C156713 1:5		B4078		19:08
05	C156714		B4079		19:57
06	C156715		B4080		20:47
07	C156719		B4082		22:25
08	C156718		B4083		23:14
09	C156717		B4084	5/21/94	0:03
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page __ of __

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: TB515 DFTPP Injection Date: 5/24/94.

Instrument ID: #102 DFTPP Injection Time: 11:07.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.32
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	59.67
70	Less than 2.0% of mass 69	.35 (.59)1
127	40.0 - 60.0% of mass 198	43.18
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.13
275	10.0 - 30.0% of mass 198	19.03
365	Greater than 1.00% of mass 198	1.81
441	Present, but less than mass 443	7.63 (93.48)
442	Greater than 40.0% of mass 198	42.98
443	17.0 - 23.0% of mass 442	8.16 (18.99)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050		VB703	5/24/94	12:31.
02	BLK247-2.		B4087		13:25
03	C156716		B4091		17:22
04	C156716 MS		B4092		18:10
05	C156716 MSD		B4093		18:59.
06	C156767 1:5		B4094		19:48
07	C156765		B4095		20:37.
08	C156766		B4096		21:26
09	C156768		B4097		22:14
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: TB516 DFTPP Injection Date: 5/25/94

Instrument ID: #102 DFTPP Injection Time: 11:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.05
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	56.25
70	Less than 2.0% of mass 69	0.16 (0.29)1
127	40.0 - 60.0% of mass 198	44.24
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.17
275	10.0 - 30.0% of mass 198	19.52
365	Greater than 1.00% of mass 198	2.22
441	Present, but less than mass 443	9.35 (87.61)
442	Greater than 40.0% of mass 198	61.39
443	17.0 - 23.0% of mass 442	10.68 (17.39)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050		VB704	5/25/94	13:34
02	BLK246-2		B4098		14:48
03	C156769		B4102		18:03
04	C156812		B4103		18:52
05	C156813		B4104		19:41
06	C156814		B4105		20:30
07	C156815		B4106		21:18
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page __ of __

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: 7B517 DFTPP Injection Date: 5/26/94

Instrument ID: #102 DFTPP Injection Time: 10:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.65
68	Less than 2.0% of mass 69	0.00 (0.00)1
69	Mass 69 relative abundance	59.17
70	Less than 2.0% of mass 69	0.00 (0.00)1
127	40.0 - 60.0% of mass 198	43.03
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.51
275	10.0 - 30.0% of mass 198	19.77
365	Greater than 1.00% of mass 198	1.91
441	Present, but less than mass 443	9.18 (99.25)
442	Greater than 40.0% of mass 198	46.40
443	17.0 - 23.0% of mass 442	9.25 (19.92)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050		VB705	5/26/94	11:23
02	BLK249-3		B4111	↓	12:56
03	C156816 1:5		B4112	↓	13:44
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page ___ of ___

Initial Calibration Data
MSL Compounds

Case No: _____ Instrument ID: _____

Contractor: _____ Calibration Date: 04/27/94

Contract No: _____

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	XC8531	XU8605	XC8532	XC8530	XC8529				
	RF	RF	RF	RF	RF				
Compound	20.00	50.00	80.00	120.00	160.00	$\overline{RF}$	% RSD	CCC	SPCC
Pyridine	-	.63165	-	-	-	.63165	-		
2-Picoline	-	.78901	-	-	-	.78901	-		
2-Fluorophenol	1.05019	.91335	.92569	.83955	.73617	.88299	12.969		
Phenol	1.71900	1.47575	1.43608	1.28362	1.19341	1.42157	14.187	*	
bis(2-chloroethyl)ether	1.31235	1.15690	1.17451	1.15418	1.06478	1.17254	7.590		
2-Chlorophenol	1.53655	1.14413	1.16992	1.05629	.98600	1.17858	18.071		
1,3-Dichlorobenzene	1.51492	1.19904	1.11561	.92991	.86615	1.12513	22.776		
1,4-Dichlorobenzene	1.53906	1.21628	1.12509	.88184	.84786	1.12202	25.037	*	
Phenol-d6	1.65403	1.31646	1.28825	1.14703	1.01207	1.28373	18.699		
Benzyl alcohol	.82535	.73310	.72320	.68239	.64735	.72228	9.274		
1,2-Dichlorobenzene	1.48258	1.09472	1.05666	.88552	.82236	1.06837	24.153		
2-Methylphenol	1.31394	.99247	.98041	.76758	.73787	.95846	24.082		
bis(2-chloroisopropyl)ether	3.92545	3.31832	3.33046	3.11492	2.85929	3.30809	11.805		
4-Methylphenol	1.54914	1.13663	1.06877	.85029	.80136	1.08124	27.507		
N-Nitroso-di-n-propylamine	1.52818	1.26988	1.05361	.92302	.84533	1.12399	24.671		**
Hexachloroethane	.77354	.63108	.59033	.39211	.38525	.55446	29.928		
Nitrobenzene	.44039	.37526	.36647	.31297	.31513	.36204	14.445		
Isophorone	.84481	.72941	.70604	.61202	.60432	.75532	12.497		
2-Nitrophenol	.25291	.20359	.20702	.18521	.17712	.20517	14.356	*	
Nitrobenzene-d5	.43677	.37655	.39138	.36455	.35525	.38490	8.313		
2,4-Dimethylphenol	.46922	.38456	.37156	.33149	.32282	.37593	15.506		
Benzoic acid	.16761	.19136	.24730	.21777	.22548	.20990	14.752		
bis(2-Chloroethoxy)methane	.50755	.42066	.41459	.36566	.35508	.41271	14.637		
2,4-Dichlorophenol	.40650	.30124	.29544	.23307	.23032	.29347	24.321	*	
1,2,4-Trichlorobenzene	.38024	.31957	.29305	.22111	.21441	.28567	24.373		
Naphthalene	1.04135	.76799	.72418	.55483	.56213	.73008	27.160		
4-Chloraniline	.51450	.41794	.40928	.33495	.30861	.39704	20.327		
Hexachlorobutadiene	.27098	.21201	.19677	.14953	.14907	.19567	25.058	*	
4-Chloro-3-methylphenol	.52160	.37934	.38879	.32616	.31222	.38762	21.433	*	
2-Methylnaphthalene	.76987	.56927	.51933	.41604	.40886	.53668	27.422		
Hexachlorocyclopentadiene	.36010	.33471	.36440	.33949	.36376	.35251	4.047		**
2-Fluorobiphenyl	1.41987	1.09791	1.06035	1.00364	.95478	1.10729	16.530		

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HCL Compounds

Case No: _____ Instrument ID: _____

Contractor: _____ Calibration Date: 04/27/94

Contract No: _____

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	XC8531	XW8605	XC8532	XC8530	XC8529				
	RF	RF	RF	RF	RF	$\overline{RF}$	% RSD	CCC	SPCC
Compound	20.00	50.00	80.00	120.00	160.00				
2,4,6-Trichlorophenol	.53675	.45435	.44070	.46525	.43565	.46024	8.475	*	
Toluenediamine	-	.40160	-	-	-	.40160	-		
2,4,5-Trichlorophenol	.52740	.42546	.44445	.45240	.46444	.46285	8.305		
2-Chloronaphthalene	1.34545	.89174	.98000	.94951	.89913	1.01470	18.621		
Dinitrobenzene	-	.22017	-	-	-	.22017	-		
2-Nitroaniline	.63701	.57581	.63558	.69254	.67396	.64298	6.963		
Dimethylphthalate	1.64201	1.44049	1.41820	1.49054	1.43030	1.48434	6.220		
Acenaphthylene	2.16789	1.72301	1.69475	1.53397	1.48945	1.72181	15.611		
2,6-Dinitrotoluene	.43297	.34703	.37940	.30744	.34403	.37951	9.454		
3-Nitroaniline	.36572	.34037	.35415	.24011	.36995	.33406	16.093		
Acenaphthene	1.31915	1.02645	.99662	.90509	.88749	1.02712	16.891	*	
2,4-Dinitrophenol	.15943	.20795	.29060	.35872	.33490	.27014	31.416		**
4-Nitrophenol	.14653	.13312	.16082	.16589	.17791	.15885	11.892		**
Dibenzofuran	2.04224	1.49299	1.40509	1.27081	1.24149	1.49052	21.791		
Tetrachlorophenol	-	.39052	.01103	-	-	.20510	133.266		
2,4-Dinitrotoluene	.57324	.44406	.40191	.34603	.42260	.43754	19.235		
Diethylphthalate	1.88149	1.53641	1.51900	1.50246	1.49415	1.60272	9.929		
4-Chlorophenyl-phenylether	.82845	.60511	.54835	.44296	.43334	.57104	28.896		
Fluorene	1.52118	1.08540	1.04225	.86401	.84800	1.07234	25.364		
4-Nitroaniline	.37130	.35129	.40320	.39834	.38529	.38190	5.537		
2,4,6-Tribromophenol	.39145	.35457	.40154	.42747	.40041	.39509	6.665		
4,6-Dinitro-2-methylphenol	.15502	.15391	.17241	.13909	.13100	.15030	10.622		
N-Nitrosodiphenylamine	.49581	.38562	.37743	.30305	.28770	.36994	22.360	*	
Benzidine	.93704	.69562	.83759	.64102	.60209	.74203	18.968		
4-Bromophenyl-phenylether	.23323	.16776	.16091	.12375	.12333	.16179	27.756		
alpha-BHC	.15300	.11971	.11230	.09097	.08955	.11292	23.120		
Hexachlorobenzene	.31713	.25505	.26106	.22924	.23100	.25849	13.851		
beta-BHC	.11743	.08952	.08329	.06057	.05907	.08214	28.952		
gamma-BHC (Lindane)	.14132	.10013	.10953	.09127	.08864	.10778	19.501		
Pentachlorophenol	.13000	.13026	.14961	.14930	.13603	.13906	7.068	*	
Phenanthrene	1.00003	.79455	.79533	.62924	.64451	.78973	22.959		
delta-BHC	.11942	.09564	.10020	.09166	.08771	.09914	12.410		

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID:

Contractor: Calibration Date: 04/27/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	X0B531	X0B605	X0B532	X0B530	X0B529				
	RF	RF	RF	RF	RF				
Compound	20.00	50.00	80.00	120.00	160.00	$\overline{RF}$	% RSD	CCC	SPCC
Carbazole	.97460	.81556	.78999	.67910	.67437	.78674	15.616		
Anthracene	1.05586	.77800	.73610	.51551	.62755	.74276	27.285		
Heptachlor	.14027	.10907	.11410	.09446	.08940	.10928	18.506		
Aldrin	.19722	.14632	.14237	.11679	.11388	.14332	23.364		
Di-n-butylphthalate	1.57040	1.05427	.91767	.68677	.69660	.88514	36.745		
Fluoranthene	1.19271	.88614	.87164	.70750	.70136	.87387	22.858	*	
Heptachlor epoxide	.12137	.11907	.13369	.12397	.12300	.12422	4.516		
Pyrene	1.62892	1.33934	1.34541	1.05738	1.13884	1.30198	17.029		
alpha-Endosulfan	.04875	.04066	.04059	.03564	.03578	.04028	13.236		
p,p'-DDE	.34050	.28273	.29778	.26864	.25296	.28852	11.600		
Dieldrin	.35085	.31040	.31742	.26505	.27770	.30430	11.175		
Endrin	.07207	.06912	.07161	.06810	.07336	.07085	3.069		
beta-Endosulfan	.05008	.03691	.04117	.03259	.03340	.03885	18.361		
p,p'-DDD	.49153	.41761	.42159	.33868	.33788	.40144	16.131		
Endrin aldehyde	.14058	.12288	.13352	.12119	.12642	.12876	6.378		
Endosulfan sulfate	.08289	.07776	.08614	.07593	.07615	.08170	9.162		
p,p'-DDT	.38202	.35479	.36598	.32144	.32359	.34955	7.587		
Butylbenzylphthalate	.93195	.69596	.75356	.68885	.70697	.73530	8.119		
3,3'-Dichlorobenzidine	.27768	.30597	.30809	.32459	.32015	.30890	6.475		
Benzo(a)anthracene	.90399	.94165	1.01193	.97292	.76492	.91900	10.325		
Chrysene	1.12797	.93603	1.09403	.91149	.71740	.95738	17.157		
bis(2-Ethylhexyl)phthalate	1.13671	.95412	1.02276	.86415	.86995	.96954	11.765		
Methoxychlor	.64719	.57149	.63225	.55065	.54417	.62915	5.240		
Terphenyl-d14	1.13599	.97276	1.08241	.91156	.92503	1.08552	9.856		
Di-n-octylphthalate	1.93325	1.68436	1.73242	1.31404	1.35768	1.60451	16.361	*	
Benzo(b)fluoranthene	.96614	.89019	1.00435	.95316	.95351	.95347	4.309		
Benzo(k)fluoranthene	.92657	1.02688	1.00760	.92049	.94244	.96400	5.081		
Benzo(a)pyrene	.88917	.92625	.95569	.89455	.95083	.92314	3.323	*	
Indeno(1,2,3-cd)pyrene	.65935	.64013	.77711	.81710	.86219	.75277	12.669		
Dibenzo(a,h)anthracene	.63219	.63323	.72762	.79005	.78492	.71360	10.903		
Benzo(g,h,i)perylene	.72565	.70193	.83352	.85376	.88251	.79948	10.078		

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: #123

Contractor: Calibration Date: 05/16/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>CD311	>UD506	>CD313	>CD312	>CD314					
	RF	RF	RF	RF	RF					
Compound	20.00	50.00	80.00	120.00	160.00	$\overline{RF}$	% RSD	CCC	SPCC	
Pyridine	-	.76313	-	-	-	.76313	-			(Conc=,50.0,,,)
2-Picoline	-	.89838	-	-	-	.89838	-			(Conc=,50.0,,,)
2-Fluorophenol	1.22755	1.16436	1.02898	1.19527	.98030	1.11929	9.684			(Conc=20.0,50.0,80.0,120.0,160.0)
Phenol	2.18408	2.05857	1.82212	1.43194	1.19321	1.73799	24.058	*		
bis(2-chloroethyl)ether	1.49760	1.48608	1.33531	1.39553	1.20651	1.38421	8.649			
2-Chlorophenol	1.57665	1.42902	1.22580	1.09014	.94447	1.25321	20.273			
1,3-Dichlorobenzene	1.54173	1.41584	1.21237	1.02907	.87882	1.21557	22.329			
1,4-Dichlorobenzene	1.59605	1.37163	1.12395	1.06909	.93063	1.21827	21.722	*		
Phenol-d6	1.63183	1.80791	1.50489	1.42023	1.19563	1.51210	15.170			(Conc=20.0,50.0,80.0,120.0,160.0)
Benzyl alcohol	.96696	.89023	.80635	.80771	.79570	.85339	8.667			
1,2-Dichlorobenzene	1.62549	1.50751	1.29412	1.08246	.92121	1.28616	22.631			
2-Methylphenol	.96696	1.38065	1.43541	1.32131	1.14653	1.25017	15.352			
bis(2-chloroisopropyl)ether	3.91187	3.30248	3.74782	3.59506	3.40190	3.59183	6.912			
4-Methylphenol	1.42431	1.41652	1.28103	1.21519	1.07123	1.28166	11.522			
N-Nitroso-di-n-propylamine	1.60210	1.56002	1.39283	1.10174	.83520	1.29838	25.041		**	
Hexachloroethane	.91840	.82726	.68079	.56876	.38716	.67647	31.060			
Nitrobenzene	.47646	.47729	.39535	.44132	.32085	.42225	15.592			
Isophorone	.97783	.99456	.98718	1.00664	.95457	.98416	1.993			
2-Nitrophenol	.26916	.28254	.24503	.22085	.20675	.24487	12.977	*		
Nitrobenzene-d5	.45674	.46201	.44576	.44070	.38949	.43894	6.587			
2,4-Dimethylphenol	.47661	.48198	.39259	.39438	.33734	.41658	14.811			
Benzoic acid	.08333	.20059	.18957	.21479	.24671	.18700	33.049			
bis(2-Chloroethoxy)methane	.61127	.54593	.53649	.47235	.41384	.51598	14.611			
2,4-Dichlorophenol	.38133	.37407	.30141	.25184	.19922	.30157	25.987	*		
1,2,4-Trichlorobenzene	.39594	.36250	.29406	.26234	.21211	.30539	24.363			
Naphthalene	1.07922	.87816	.80735	.66846	.54778	.79620	25.507			
4-Chloraniline	.47998	.50103	.43147	.42946	.35558	.43950	12.786			
Hexachlorobutadiene	.26970	.24799	.19544	.16962	.14169	.20489	26.039	*		
4-Chloro-3-methylphenol	.47615	.47886	.42162	.35929	.29970	.40712	19.006	*		
2-Methylnaphthalene	1.09806	1.01877	.83075	.68869	.57475	.84221	26.005			
Hexachlorocyclopentadiene	.38185	.40630	.35191	.34710	.28344	.35412	13.050		**	
2-Fluorobiphenyl	1.39048	.98797	.78229	.60950	.51478	.85700	40.660			

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: #123

Contractor: Calibration Date: 05/16/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>CD311	>00506	>CD313	>CD312	>CD314					
	RF	RF	RF	RF	RF					
Compound	20.00	50.00	80.00	120.00	160.00	$\overline{RF}$	% RSD	CCC	SPCC	
2,4,6-Trichlorophenol	.56395	.49609	.40325	.37130	.34744	.43641	20.839	*		
Toluenediamine	-	.26949	-	-	-	.26949	-			(Conc=,50.0,,,)
2,4,5-Trichlorophenol	.53814	.44812	.34342	.25923	.19755	.35729	38.650			
2-Chloronaphthalene	1.34870	1.09601	.96358	.81155	.66616	.97720	26.905			
Dinitrobenzene	-	.50699	-	-	-	.50699	-			(Conc=,50.0,,,)
2-Nitroaniline	.63059	.64362	.58459	.62498	.57178	.61111	5.096			
Dimethylphthalate	1.68032	1.44826	1.37595	1.30765	1.25355	1.41315	11.767			
Acenaphthylene	2.22877	1.66628	1.16054	1.02108	.86451	1.38824	40.184			
2,6-Dinitrotoluene	.40250	.30876	.24824	.20393	.19488	.27166	31.627			
3-Nitroaniline	.39066	.47354	.36058	.34020	.26624	.36624	20.623			
Acenaphthene	1.36238	1.06284	.80528	.83416	.70262	.95345	27.664	*		
2,4-Dinitrophenol	.10838	.25743	.27868	.28680	.29319	.24490	31.645		**	
4-Nitrophenol	.11252	.21568	.18926	.20752	.21550	.18810	23.178		**	
Dibenzofuran	2.07436	1.78916	1.38610	1.20830	1.06097	1.50378	27.903			
Tetrachlorophenol	-	.43079	-	-	-	.43079	-			(Conc=,50.0,,,)
2,4-Dinitrotoluene	.57633	.61375	.56235	.53537	.48140	.55384	8.917			
Diethylphthalate	1.91866	1.68044	1.55644	1.39761	1.19987	1.55060	17.625			
4-Chlorophenyl-phenylether	.80481	.62612	.55645	.49367	.40201	.57661	26.344			
Fluorene	1.57337	1.20847	1.03140	.92676	.72429	1.09286	29.348			
4-Nitroaniline	.41978	.47337	.39929	.39358	.34303	.40581	11.620			
2,4,6-Tribromophenol	.42198	.38176	.35827	.34632	.28731	.35913	13.772			(Conc=20.0,50.0,80.0,120.0,160.0)
4,6-Dinitro-2-methylphenol	.15310	.19099	.17824	.16582	.15984	.16960	8.914			
N-Nitrosodiphenylamine	.47749	.39697	.34545	.29639	.27945	.35915	22.410	*		
Benzidine	1.06332	1.00571	.90928	.84521	.69279	.90326	16.026			
4-Bromophenyl-phenylether	.25199	.16876	.11737	.08907	.09265	.14397	47.415			
alpha-BHC	.16699	.12868	.09253	.08938	.08034	.11159	32.295			
Hexachlorobenzene	.40410	.32309	.27536	.24308	.22280	.29369	24.658			
beta-BHC	.12573	.11316	.09622	.08008	.07509	.09805	21.919			
gamma-BHC (Lindane)	.14832	.12982	.10642	.09908	.08595	.11392	21.922			
Pentachlorophenol	.08006	.14571	.13751	.12795	.11884	.12201	20.925	*		
Phenanthrene	1.10028	.87674	.74599	.61547	.55394	.77848	28.088			
delta-BHC	.12431	.11874	.09919	.09069	.08704	.10399	16.074			

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: #123

Contractor: Calibration Date: 05/16/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>CD311	>VD506	>CD313	>CD312	>CD314				
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RF}$	% RSD	CCC	SPCC
Carbazole	.98534	.91151	.75723	.69612	.63097	.79623	18.618		
Anthracene	1.11077	.89381	.74014	.65335	.56119	.79185	27.317		
Heptachlor	.18299	.14640	.12527	.10983	.09964	.13283	24.935		
Aldrin	.22822	.18223	.16347	.14414	.13283	.17018	22.049		
Di-n-butylphthalate	1.73566	1.57041	1.20169	.94483	.87426	1.26537	29.937		
Fluoranthene	1.19323	1.06690	.83921	.71210	.63817	.88992	26.406	*	
Heptachlor epoxide	.16888	.15510	.16095	.19794	.21262	.17910	13.926		
Pyrene	1.70013	1.50174	1.32939	1.46910	1.51099	1.50227	8.819		
alpha-Endosulfan	.05628	.04527	.03808	.04272	.04269	.04501	15.138		
Dieldrin	.42081	.34207	.32758	.36507	.33685	.35848	10.457		
p,p'-DDE	.37856	.36893	.35654	.43015	.43481	.39380	9.193		
Endrin	.10427	.10734	.10539	.13147	.13592	.11688	13.237		
beta-Endosulfan	.06525	.06820	.06442	.07415	.07297	.06900	6.399		
p,p'-DDD	.51341	.66828	.56959	.74353	.73312	.66559	11.288		
Endrin aldehyde	.17944	.18833	.19510	.21429	.24329	.20409	12.439		
Endosulfan sulfate	.13973	.14431	.13835	.15031	.16468	.14748	7.250		
p,p'-DDT	.57728	.60426	.56321	.65112	.62994	.60516	5.995		
Butylbenzylphthalate	.98052	1.12328	1.02264	1.15989	1.32245	1.12176	11.919		
3,3'-Dichlorobenzidine	.37088	.43914	.37481	.40072	.43618	.40434	8.042		
Benzo(a)anthracene	1.34768	1.26978	1.14416	1.19572	1.26865	1.24520	6.261		
Chrysene	1.18383	1.40855	1.34185	1.45445	1.51506	1.38075	9.199		
bis(2-Ethylhexyl)phthalate	1.33160	1.44110	1.29719	1.47203	1.52767	1.41392	6.844		
Methoxychlor	.81017	.83458	.73060	.77904	.75830	.78254	5.257		
Terphenyl-d14	1.22438	1.13174	.99591	1.08538	1.01320	1.09012	8.528		
Di-n-octylphthalate	1.97986	1.79971	1.71526	1.65207	1.20952	1.67128	17.114	*	
Benzo(b)fluoranthene	1.10452	1.09327	1.03339	1.06318	1.09920	1.07871	2.778		
Benzo(k)fluoranthene	1.12507	1.01565	1.01545	.99097	.70352	.97013	16.269		
Benzo(a)pyrene	1.00921	1.04017	.98409	.99187	.91562	.98819	4.649	*	
Indeno(1,2,3-cd)pyrene	.74332	.92818	.88693	.86345	.89676	.86373	8.244		
Dibenzo(a,h)anthracene	.71693	.83078	.80200	.79222	.78177	.78474	5.361		
Benzo(g,h,i)perylene	.80029	.95817	.90497	.87655	.91596	.89119	6.583		

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/18/94

Contractor: Time: 15:24

Contract No: Laboratory ID:)V0508

Instrument ID: #123 Initial Calibration Date: 05/16/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Pyridine	.76313	.62104	18.62			(Conc=50.00)
2-Picoline	.89838	.71253	20.69			(Conc=50.00)
2-Fluorophenol	1.11929	.95792	14.42			(Conc=50.00)
Phenol	1.73799	1.44392	16.92	*		
bis(2-chloroethyl)ether	1.38421	1.05189	24.01			
2-Chlorophenol	1.25321	1.03193	17.66			
1,3-Dichlorobenzene	1.21557	1.02209	15.92			
1,4-Dichlorobenzene	1.21827	1.10383	9.39	*		
Phenol-d6	1.51210	1.10260	27.08			(Conc=50.00)
Benzyl alcohol	.85339	.72543	14.99			
1,2-Dichlorobenzene	1.28616	1.15346	10.32			
2-Methylphenol	1.25017	1.07636	13.90			
bis(2-chloroisopropyl)ether	3.59183	2.88160	19.77			
4-Methylphenol	1.28166	1.12464	12.25			
N-Nitroso-di-n-propylamine	1.29838	1.22222	5.87		**	
Hexachloroethane	.67647	.63351	6.35			
Nitrobenzene	.42225	.40378	4.38			
Isophorone	.98416	.84580	14.06			
2-Nitrophenol	.24487	.21556	11.97	*		
Nitrobenzene-d5	.43894	.38871	11.44			
2,4-Dimethylphenol	.41658	.39064	6.23			
Benzoic acid	.18700	.18934	1.25			
bis(2-Chloroethoxy)methane	.51598	.42994	16.68			
2,4-Dichlorophenol	.30157	.31747	5.27	*		
1,2,4-Trichlorobenzene	.30539	.31781	4.07			
Naphthalene	.79620	.74639	6.26			
4-Chloraniline	.43950	.41449	5.69			
Hexachlorobutadiene	.20489	.23489	14.64	*		
4-Chloro-3-methylphenol	.40712	.37325	8.32	*		
2-Methylnaphthalene	.84221	.81044	3.77			
Hexachlorocyclopentadiene	.35412	.37301	5.33		**	
2-Fluorobiphenyl	.85700	.81005	5.48			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/18/94

Contractor: Time: 15:24

Contract No: Laboratory ID: >VD508

Instrument ID: M123 Initial Calibration Date: 05/16/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
2,4,6-Trichlorophenol	.43641	.44066	.97	*		
Toluenediamine	.26949	.24535	8.96			(Conc=50.00)
2,4,5-Trichlorophenol	.35729	.40885	14.43			
2-Chloronaphthalene	.97720	.94694	3.10			
Dinitrobenzene	.50699	.49092	3.17			(Conc=50.00)
2-Nitroaniline	.61111	.60785	.53			
Dimethylphthalate	1.41315	1.35764	3.93			
Acenaphthylene	1.38824	1.36630	1.58			
2,6-Dinitrotoluene	.27166	.22639	16.66			
3-Nitroaniline	.36624	.34300	6.35			
Acenaphthene	.95345	.88425	7.26	*		
2,4-Dinitrophenol	.24490	.28666	17.05		**	
4-Nitrophenol	.18810	.27712	47.33		**	
Dibenzofuran	1.50378	1.55058	3.11			
Tetrachlorophenol	.43079	.44476	3.24			(Conc=50.00)
2,4-Dinitrotoluene	.55384	.58054	4.82			
Diethylphthalate	1.55060	1.60757	3.67			
4-Chlorophenyl-phenylether	.57661	.62140	7.77			
Fluorene	1.09286	1.12016	2.50			
4-Nitroaniline	.40581	.42492	4.71			
2,4,6-Tribromophenol	.35913	.45937	27.91			(Conc=50.00)
4,6-Dinitro-2-methylphenol	.16960	.15492	8.66			
N-Nitrosodiphenylamine	.35915	.31093	13.42	*		
Benzidine	.90326	.81001	10.32			
4-Bromophenyl-phenylether	.14397	.13737	4.58			
alpha-BHC	.11159	.10278	7.89			
Hexachlorobenzene	.29369	.29585	.74			
beta-BHC	.09805	.09863	.58			
gamma-BHC (Lindane)	.11392	.12076	6.00			
Pentachlorophenol	.12201	.14881	21.96	*		
Phenanthrene	.77848	.73581	5.48			
delta-BHC	.10399	.11220	7.89			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/18/94

Contractor: Time: 15:24

Contract No: Laboratory ID: >V0508

Instrument ID: #123 Initial Calibration Date: 05/16/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Carbazole	.79623	.70242	11.78		
Anthracene	.79185	.71252	10.02		
Heptachlor	.13283	.14179	6.75		
Aldrin	.17018	.15876	6.71		
Di-n-butylphthalate	1.26537	1.15155	8.99		
Fluoranthene	.88992	.92082	3.47	*	
Heptachlor epoxide	.17910	.18735	4.61		
Pyrene	1.50227	1.28688	14.34		
alpha-Endosulfan	.04501	.04202	6.64		
Dieldrin	.35848	.26900	24.96		
p,p'-DDE	.39380	.38790	1.50		
Endrin	.11688	.11786	.84		
beta-Endosulfan	.06900	.06655	3.55		
p,p'-DDD	.66559	.62626	5.91		
Endrin aldehyde	.20409	.13555	33.58		
Endosulfan sulfate	.14748	.14483	1.80		
p,p'-DDT	.60516	.56468	6.69		
Butylbenzylphthalate	1.12176	.90791	19.06		
3,3'-Dichlorobenzidine	.40434	.33244	17.78		
Benzo(a)anthracene	1.24520	1.11420	10.52		
Chrysene	1.38075	1.11934	18.93		
bis(2-Ethylhexyl)phthalate	1.41392	1.12947	20.12		
Methoxychlor	.78254	.07634	90.24		
Terphenyl-d14	1.09012	.90488	16.99		
Di-n-octylphthalate	1.67128	1.30209	22.09	*	
Benzo(b)fluoranthene	1.07871	.83010	23.05		
Benzo(k)fluoranthene	.97013	.82889	14.56		
Benzo(a)pyrene	.98819	.78775	20.28	*	
Indeno(1,2,3-cd)pyrene	.86373	.68339	20.88		
Dibenzo(a,h)anthracene	.78474	.64160	18.24		
Benzo(g,h,i)perylene	.89119	.66568	25.30		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/20/94

Contractor: Time: 15:57

Contract No: Laboratory ID: >VB700

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Pyridine	.63165	1.03614	64.04			(Conc=50.00)
2-Picoline	.78901	1.17994	49.55			(Conc=50.00)
2-Fluorophenol	.89299	1.21942	36.55			
Phenol	1.42157	1.75683	23.58	*		
bis(2-chloroethyl)ether	1.17254	1.28605	9.68			
2-Chlorophenol	1.17858	1.47757	25.37			
1,3-Dichlorobenzene	1.12513	1.42729	26.86			
1,4-Dichlorobenzene	1.12202	1.34460	19.84	*		
Phenol-d6	1.28373	1.62955	26.94			
Benzyl alcohol	.72228	.87190	20.72			
1,2-Dichlorobenzene	1.06837	1.36708	27.96			
2-Methylphenol	.95846	1.25120	30.54			
bis(2-chloroisopropyl)ether	3.30809	3.17762	3.94			
4-Methylphenol	1.08124	1.37280	26.97			
N-Nitroso-di-n-propylamine	1.12399	1.37669	22.48		**	
Hexachloroethane	.55446	.64664	16.63			
Nitrobenzene	.36204	.42080	16.23			
Isophorone	.75532	.82735	9.54			
2-Nitrophenol	.20517	.24692	20.35	*		
Nitrobenzene-d5	.38490	.43326	12.56			
2,4-Dimethylphenol	.37593	.46089	22.60			
Benzoic acid	.20990	.23309	11.05			
bis(2-Chloroethoxy)methane	.41271	.46204	11.95			
2,4-Dichlorophenol	.29347	.34222	16.61	*		
1,2,4-Trichlorobenzene	.28567	.32250	12.89			
Naphthalene	.73008	.93499	28.07			
4-Chloraniline	.39704	.46973	18.31			
Hexachlorobutadiene	.19567	.19470	.50	*		
4-Chloro-3-methylphenol	.38762	.45087	16.32	*		
2-Methylnaphthalene	.53668	.66383	23.69			
Hexachlorocyclopentadiene	.35251	.29840	15.35		**	
2-Fluorobiphenyl	1.10729	1.21912	10.10			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/20/94

Contractor: Time: 15:57

Contract No: Laboratory ID: >VB700

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.46834	.52104	11.25	*	
Toluenediamine	.40160	.35612	11.32		
2,4,5-Trichlorophenol	.46285	.49086	6.05		
2-Chloronaphthalene	1.01478	1.13789	12.13		
Dinitrobenzene	.22817	.26719	17.10		
2-Nitroaniline	.64298	.64673	.58		
Dimethylphthalate	1.48434	1.58056	6.48		
Acenaphthylene	1.72181	1.87278	8.77		
2,6-Dinitrotoluene	.37851	.42206	11.51		
3-Nitroaniline	.33406	.37441	12.08		
Acenaphthene	1.02712	1.19578	16.42	*	
2,4-Dinitrophenol	.27014	.19775	26.80		**
4-Nitrophenol	.15685	.19608	25.01		**
Dibenzofuran	1.49052	1.77493	19.08		
Tetrachlorophenol	.20518	.40869	99.19		
2,4-Dinitrotoluene	.43754	.56807	29.83		
Diethylphthalate	1.60272	1.66089	3.63		
4-Chlorophenyl-phenylether	.57184	.67583	18.19		
Fluorene	1.07234	1.23233	14.92		
4-Nitroaniline	.38190	.41145	7.74		
2,4,6-Tribromophenol	.39509	.44781	13.34		
4,6-Dinitro-2-methylphenol	.15030	.16696	11.08		
N-Nitrosodiphenylamine	.36994	.42919	16.02	*	
Benzidine	.74283	.78956	6.29		
4-Bromophenyl-phenylether	.16179	.21435	32.48		
alpha-BHC	.11292	.12754	12.95		
Hexachlorobenzene	.25849	.32190	24.53		
beta-BHC	.08214	.10928	33.04		
gamma-BHC (Lindane)	.10778	.13015	20.76		
Pentachlorophenol	.13906	.14921	7.30	*	
Phenanthrene	.78873	.92610	17.42		
delta-BHC	.09914	.11502	16.01		

RF - Response factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/20/94

Contractor: Time: 15:57

Contract No: Laboratory ID: >VB700

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Carbazole	.78674	.87006	10.59		
Anthracene	.74276	.90858	22.32		
Heptachlor	.10928	.13107	19.95		
Aldrin	.14332	.16172	12.84		
Di-n-butylphthalate	.98514	1.19851	21.66		
Fluoranthene	.87387	1.07334	22.83	*	
Heptachlor epoxide	.12422	.15992	28.73		
Pyrene	1.30198	1.54297	18.51		
alpha-Endosulfan	.04028	.04990	23.87		
p,p'-DDE	.28852	.32706	13.36		
Dieldrin	.30430	.29077	4.45		
Endrin	.07085	.08620	21.66		
beta-Endosulfan	.03885	.04638	19.40		
p,p'-DDD	.40144	.47071	17.26		
Endrin aldehyde	.12876	.09622	25.27		
Endosulfan sulfate	.08178	.09231	12.89		
p,p'-DDT	.34955	.41844	19.71		
Butylbenzylphthalate	.73530	.64461	12.33		
3,3'-Dichlorobenzidine	.30890	.36722	18.88		
Benzo(a)anthracene	.91908	.90434	1.60		
Chrysene	.95738	.83924	12.34		
bis(2-Ethylhexyl)phthalate	.96954	.76976	20.61		
Methoxychlor	.62915	.62588	.52		
Terphenyl-d14	1.00552	1.16966	16.32		
Di-n-octylphthalate	1.60451	1.49488	6.83	*	
Benzo(b)fluoranthene	.95347	1.06574	11.78		
Benzo(k)fluoranthene	.96480	1.13161	17.29		
Benzo(a)pyrene	.92314	1.00522	8.89	*	
Indeno(1,2,3-cd)pyrene	.75277	.77909	3.50		
Dibenzo(a,h)anthracene	.71360	.77866	9.12		
Benzo(g,h,i)perylene	.79948	.80268	.40		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/24/94

Contractor: Time: 12:31

Contract No: Laboratory ID: >VB703

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Pyridine	.63165	.66095	4.64			(Conc=50.00)
2-Picoline	.78901	.81852	3.74			(Conc=50.00)
2-Fluorophenol	.89299	.80710	9.62			
Phenol	1.42157	1.28854	9.36	*		
bis(2-chloroethyl)ether	1.17254	.86348	26.36			
2-Chlorophenol	1.17858	1.15565	1.95			
1,3-Dichlorobenzene	1.12513	1.06101	5.70			
1,4-Dichlorobenzene	1.12202	1.04529	6.84	*		
Phenol-d6	1.28373	1.13683	11.44			
Benzyl alcohol	.72228	.70081	2.97			
1,2-Dichlorobenzene	1.06837	1.03957	2.70			
2-Methylphenol	.95846	.85664	10.62			
bis(2-chloroisopropyl)ether	3.30809	2.33240	29.49			
4-Methylphenol	1.08124	.99375	8.09			
N-Nitroso-di-n-propylamine	1.12399	1.01534	9.67		**	
Hexachloroethane	.55446	.45432	18.06			
Nitrobenzene	.36204	.29834	17.60			
Isophorone	.75532	.61299	18.84			
2-Nitrophenol	.20517	.19914	2.94	*		
Nitrobenzene-d5	.38490	.30546	20.64			
2,4-Dimethylphenol	.37593	.33199	11.69			
Benzoic acid	.20990	.16745	20.23			
bis(2-Chloroethoxy)methane	.41271	.33176	19.61			
2,4-Dichlorophenol	.29347	.31034	5.75	*		
1,2,4-Trichlorobenzene	.28567	.29509	3.29			
Naphthalene	.73008	.68540	6.12			
4-Chloraniline	.39704	.36704	7.56			
Hexachlorobutadiene	.19567	.19770	1.04	*		
4-Chloro-3-methylphenol	.38762	.34431	11.17	*		
2-Methylnaphthalene	.53668	.51599	3.85			
Hexachlorocyclopentadiene	.35251	.29468	16.41		**	
2-Fluorobiphenyl	1.10729	.92587	16.38			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/24/94

Contractor: Time: 12:31

Contract No: Laboratory ID:)VB703

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.46834	.43251	7.65	*	
Toluenediamine	.40160	.20406	49.19		
2,4,5-Trichlorophenol	.46285	.41550	10.23		
2-Chloronaphthalene	1.01478	.90246	11.07		
Dinitrobenzene	.22817	.20800	8.84		
2-Nitroaniline	.64298	.41266	35.82		
Dimethylphthalate	1.48434	1.36230	8.22		
Acenaphthylene	1.72181	1.47505	14.33		
2,6-Dinitrotoluene	.37851	.33335	11.93		
3-Nitroaniline	.33406	.23545	29.52		
Acenaphthene	1.02712	.88610	13.73	*	
2,4-Dinitrophenol	.27014	.17460	35.37		**
4-Nitrophenol	.15685	.13631	13.10		**
Dibenzofuran	1.49052	1.36321	8.54		
Tetrachlorophenol	.20518	.38864	89.42		
2,4-Dinitrotoluene	.43754	.47891	9.45		
Diethylphthalate	1.60272	1.24150	22.53		
4-Chlorophenyl-phenylether	.57184	.50644	11.44		
Fluorene	1.07234	.88864	17.13		
4-Nitroaniline	.38190	.30627	19.80		
2,4,6-Tribromophenol	.39509	.34814	11.88		
4,6-Dinitro-2-methylphenol	.15030	.12724	15.34		
N-Nitrosodiphenylamine	.36994	.33621	9.12	*	
Benzidine	.74283	.51285	30.96		
4-Bromophenyl-phenylether	.16179	.18457	14.08		
alpha-BHC	.11292	.11436	1.27		
Hexachlorobenzene	.25849	.28465	10.12		
beta-BHC	.08214	.07660	6.75		
gamma-BHC (Lindane)	.10778	.09846	8.64		
Pentachlorophenol	.13906	.13332	4.12	*	
Phenanthrene	.78873	.67826	14.01		
delta-BHC	.09914	.08822	11.01		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/24/94

Contractor: Time: 12:51

Contract No: Laboratory ID:)UB703

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Carbazole	.78674	.62682	20.33		
Anthracene	.74276	.70006	5.75		
Heptachlor	.10928	.11542	5.62		
Aldrin	.14332	.09117	36.39		
Di-n-butylphthalate	.98514	.81369	17.40		
fluoranthene	.87387	.77375	11.46	*	
Heptachlor epoxide	.12422	.11603	6.60		
Pyrene	1.30198	1.19486	8.23		
alpha-Endosulfan	.04028	.04229	4.99		
p,p'-DDE	.28852	.28765	.30		
Dieldrin	.30430	.17329	43.05		
Endrin	.07085	.06503	8.23		
beta-Endosulfan	.03885	.03608	7.12		
p,p'-DDD	.40144	.42692	6.35		
Endrin aldehyde	.12876	.05106	60.34		
Endosulfan sulfate	.08178	.07787	4.78		
p,p'-DDT	.34955	.31951	8.60		
Butylbenzylphthalate	.73530	.47934	34.81		
3,3'-Dichlorobenzidine	.30890	.27664	10.44		
Benzo(a)anthracene	.91908	.69096	24.82		
Chrysene	.95738	.73114	23.63		
bis(2-Ethylhexyl)phthalate	.96954	.50720	47.69		
Methoxychlor	.62915	.45631	27.47		
Terphenyl-d14	1.00552	.98190	2.35		
Di-n-octylphthalate	1.60451	1.26606	21.09	*	
Benzo(b)fluoranthene	.95347	.81619	14.40		
Benzo(k)fluoranthene	.96480	.97030	.57		
Benzo(a)pyrene	.92314	.77357	16.20	*	
Indeno(1,2,3-cd)pyrene	.75277	.53910	28.38		
Dibenzo(a,h)anthracene	.71360	.54587	23.50		
Benzo(g,h,i)perylene	.79948	.56040	29.90		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/25/94

Contractor: Time: 13:34

Contract No: Laboratory ID: >U8704

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Pyridine	.63165	.97975	55.11			(Conc=50.00)
2-Picoline	.78901	1.13778	44.20			(Conc=50.00)
2-Fluorophenol	.89299	1.14022	27.69			
Phenol	1.42157	1.68167	18.30	*		
bis(2-chloroethyl)ether	1.17254	1.11608	4.82			
2-Chlorophenol	1.17858	1.51478	28.53			
1,3-Dichlorobenzene	1.12513	1.27812	13.60			
1,4-Dichlorobenzene	1.12202	1.28222	14.28	*		
Phenol-d6	1.28373	1.57318	22.55			
Benzyl alcohol	.72228	.82578	14.33			
1,2-Dichlorobenzene	1.06837	1.26976	18.85			
2-Methylphenol	.95846	1.12463	17.34			
bis(2-chloroisopropyl)ether	3.30809	2.82507	14.60			
4-Methylphenol	1.08124	1.24843	15.46			
N-Nitroso-di-n-propylamine	1.12399	1.16190	3.37		**	
Hexachloroethane	.55446	.56338	1.61			
Nitrobenzene	.36204	.34490	4.74			
Isophorone	.75532	.69017	8.63			
2-Nitrophenol	.20517	.24883	21.28	*		
Nitrobenzene-d5	.38490	.37320	3.04			
2,4-Dimethylphenol	.37593	.42227	12.33			
Benzoic acid	.20990	.16530	21.25			
bis(2-Chloroethoxy)methane	.41271	.39448	4.42			
2,4-Dichlorophenol	.29347	.36107	23.03	*		
1,2,4-Trichlorobenzene	.28567	.32905	15.18			
Naphthalene	.73008	.82739	13.33			
4-Chloraniline	.39704	.40949	3.14			
Hexachlorobutadiene	.19567	.22638	15.70	*		
4-Chloro-3-methylphenol	.38762	.42886	10.64	*		
2-Methylnaphthalene	.53668	.60195	12.16			
Hexachlorocyclopentadiene	.35251	.34370	2.50		**	
2-Fluorobiphenyl	1.10729	1.08692	1.84			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/25/94

Contractor: Time: 13:34

Contract No: Laboratory ID: >VB704

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.46834	.55887	19.33	*	
Toluenediamine	.40160	.28152	29.90		
2,4,5-Trichlorophenol	.46285	.49559	7.07		
2-Chloronaphthalene	1.01478	1.06694	5.14		
Dinitrobenzene	.22817	.26743	17.21		
2-Nitroaniline	.64298	.52349	18.58		
Dimethylphthalate	1.48434	1.45548	1.94		
Acenaphthylene	1.72181	1.81562	5.45		
2,6-Dinitrotoluene	.37851	.37443	1.08		
3-Nitroaniline	.33406	.30278	9.36		
Acenaphthene	1.02712	1.04224	1.47	*	
2,4-Dinitrophenol	.27014	.18467	31.64		**
4-Nitrophenol	.15685	.14827	5.47		**
Dibenzofuran	1.49052	1.71949	15.36		
Tetrachlorophenol	.20518	.44895	118.81		
2,4-Dinitrotoluene	.43754	.48546	10.95		
Diethylphthalate	1.60272	1.44437	9.88		
4-Chlorophenyl-phenylether	.57184	.61374	7.33		
Fluorene	1.07234	1.08922	1.57		
4-Nitroaniline	.38190	.32934	13.76		
2,4,6-Tribromophenol	.39509	.41962	6.21		
4,6-Dinitro-2-methylphenol	.15030	.16332	8.66		
N-Nitrosodiphenylamine	.36994	.43827	18.47	*	
Benzidine	.74283	.63911	13.96		
4-Bromophenyl-phenylether	.16179	.24152	49.27		
alpha-BHC	.11292	.15477	37.06		
Hexachlorobenzene	.25849	.34033	31.66		
beta-BHC	.08214	.09260	12.74		
gamma-BHC (Lindane)	.10778	.12532	16.27		
Pentachlorophenol	.13906	.16171	16.29	*	
Phenanthrene	.78873	.84585	7.24		
delta-BHC	.09914	.10668	7.61		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/25/94

Contractor: Time: 13:34

Contract No: Laboratory ID: >VB704

Instrument ID: Initial Calibration Date: 04/27/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Carbazole	.78674	.74636	5.13		
Anthracene	.74276	.85499	15.11		
Heptachlor	.10928	.14896	36.31		
Aldrin	.14332	.12541	12.50		
Di-n-butylphthalate	.98514	1.05510	7.10		
Fluoranthene	.87387	.94534	8.18	*	
Heptachlor epoxide	.12422	.14203	14.33		
Pyrene	1.30198	1.36092	4.53		
alpha-Endosulfan	.04028	.04978	23.59		
p,p'-DDE	.28852	.33900	17.50		
Dieldrin	.30430	.19733	35.15		
Endrin	.07085	.06795	4.11		
beta-Endosulfan	.03885	.04561	17.40		
p,p'-DDD	.40144	.52686	31.24		
Endrin aldehyde	.12876	.06758	47.51		
Endosulfan sulfate	.08178	.09894	20.99		
p,p'-DDT	.34955	.40594	16.13		
Butylbenzylphthalate	.73530	.55153	24.99		
3,3'-Dichlorobenzidine	.30890	.37646	21.87		
Benzo(a)anthracene	.91908	.95121	3.50		
Chrysene	.95738	.90073	5.92		
bis(2-Ethylhexyl)phthalate	.96954	.61423	36.65		
Methoxychlor	.62915	.58269	7.38		
Terphenyl-d14	1.00552	1.10956	10.35		
Di-n-octylphthalate	1.60451	1.25633	21.70	*	
Benzo(b)fluoranthene	.95347	.96282	.98		
Benzo(k)fluoranthene	.96480	.99593	3.23		
Benzo(a)pyrene	.92314	.91694	.67	*	
Indeno(1,2,3-cd)pyrene	.75277	.76146	1.15		
Dibenzo(a,h)anthracene	.71360	.69470	2.65		
Benzo(g,h,i)perylene	.79948	.74789	6.45		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/26/94

Contractor: Time: 11:23

Contract No: Laboratory ID: >VB705

Instrument ID: #123 Initial Calibration Date: 05/26/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Pyridine	.56397	.85092	50.88			(Conc=56.00)
2-Picoline	.71729	1.02945	43.52			(Conc=55.00)
2-Fluorophenol	.89299	1.16329	30.27			(Conc=50.00)
Phenol	1.42157	1.70667	20.06	*		
bis(2-chloroethyl)ether	1.17254	1.10975	5.35			
2-Chlorophenol	1.17858	1.53633	30.35			
1,3-Dichlorobenzene	1.12513	1.31558	16.93			
1,4-Dichlorobenzene	1.12202	1.27778	13.88	*		
Phenol-d6	1.28373	1.51198	17.78			(Conc=50.00)
Benzyl alcohol	.72228	.84278	16.68			
1,2-Dichlorobenzene	1.06837	1.26703	18.59			
2-Methylphenol	.95846	1.12186	17.05			
bis(2-chloroisopropyl)ether	3.30809	2.79156	15.61			
4-Methylphenol	1.08124	1.21119	12.02			
N-Nitroso-di-n-propylamine	1.12399	1.16866	3.97		**	
Hexachloroethane	.55446	.52474	5.36			
Nitrobenzene	.36204	.33729	6.84			
Isophorone	.75532	.66833	11.52			
2-Nitrophenol	.20517	.24130	17.61	*		
Nitrobenzene-d5	.38490	.37032	3.79			
2,4-Dimethylphenol	.37593	.41427	10.20			
Benzoic acid	.20990	.12489	40.50			
bis(2-Chloroethoxy)methane	.41271	.40413	2.08			
2,4-Dichlorophenol	.29347	.36563	24.59	*		
1,2,4-Trichlorobenzene	.28567	.32915	15.22			
Naphthalene	.73008	.82613	13.16			
4-Chloraniline	.39704	.41688	5.00			
Hexachlorobutadiene	.19567	.21837	11.60	*		
4-Chloro-3-methylphenol	.38762	.41665	7.49	*		
2-Methylnaphthalene	.53668	.62021	15.56			
Hexachlorocyclopentadiene	.35251	.33259	5.65		**	
2-Fluorobiphenyl	1.10729	1.11182	.41			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/26/94

Contractor: Time: 11:23

Contract No: Laboratory ID: >VB705

Instrument ID: #123 Initial Calibration Date: 05/26/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC				
2,4,6-Trichlorophenol	.46834	.57045	21.80	*					
Toluenediamine	.37886	.25023	33.95			(Conc=53.00)			
2,4,5-Trichlorophenol	.46285	.45968	.68						
2-Chloronaphthalene	1.01478	1.10022	8.42						
Dinitrobenzene	.23767	.27052	13.82			(Conc=48.00)			
2-Nitroaniline	.64298	.51327	20.17						
Dimethylphthalate	1.48434	1.55298	4.62						
Acenaphthylene	1.72181	1.83959	6.84						
2,6-Dinitrotoluene	.37851	.36971	2.32						
3-Nitroaniline	.33406	.30882	7.56						
Acenaphthene	1.02712	1.07961	5.11	*					
2,4-Dinitrophenol	.27014	.20106	25.57		**				
4-Nitrophenol	.15685	.15415	1.73		**				
Dibenzofuran	1.49052	1.89611	27.21						
Tetrachlorophenol	.19751	.40677	105.94			(Conc=52.00)			
2,4-Dinitrotoluene	.43754	.51524	17.76						
Diethylphthalate	1.60272	1.47733	7.82						
4-Chlorophenyl-phenylether	.57184	.65127	13.89						
Fluorene	1.07234	1.10110	2.68						
4-Nitroaniline	.38190	.32600	14.64						
2,4,6-Tribromophenol	.39509	.40534	2.59			(Conc=50.00)			
4,6-Dinitro-2-methylphenol	.15030	.15948	6.11						
N-Nitrosodiphenylamine	.36994	.45512	23.03	*					
Benzidine	.74283	.56385	24.09						
4-Bromophenyl-phenylether	.16179	.23345	44.29						
alpha-BHC	.11292	.15128	33.97			Hexachlorobenzene	.25849	.32314	25.01
beta-BHC	.08214	.09006	9.65						
gamma-BHC (Lindane)	.10778	.11312	4.96						
Pentachlorophenol	.13906	.11806	15.10	*					
Phenanthrene	.78873	.79913	1.32						
delta-BHC	.09914	.10497	5.88						

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 05/26/94

Contractor: Time: 11:23

Contract No: Laboratory ID: >VB705

Instrument ID: #123 Initial Calibration Date: 05/26/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Carbazole	.78674	.75557	3.96		
Anthracene	.74276	.82268	10.76		
Heptachlor	.10928	.13570	24.18		
Aldrin	.14332	.11327	20.96		
Di-n-butylphthalate	.98514	1.03450	5.01		
Fluoranthene	.87387	.97801	11.92	*	
Heptachlor epoxide	.12422	.13885	11.77		
Pyrene	1.30198	1.47694	13.44		
alpha-Endosulfan	.04028	.05226	29.73		
Dieldrin	.30430	.21125	30.58		
p,p'-DDE	.28852	.36106	25.14		
Endrin	.07085	.08238	16.26		
beta-Endosulfan	.03885	.04663	20.03		
p,p'-DDD	.40144	.54342	35.37		
Endrin aldehyde	.12876	.07022	45.46		
Endosulfan sulfate	.08178	.09946	21.63		
p,p'-DDT	.34955	.42175	20.65		
Butylbenzylphthalate	.73530	.59734	18.76		
3,3'-Dichlorobenzidine	.30890	.35952	16.39		
Benzo(a)anthracene	.91908	.90638	1.38		
Chrysene	.95738	.88739	7.31		
bis(2-Ethylhexyl)phthalate	.96954	.65728	32.21		
Methoxychlor	.62915	.60975	3.08		
Terphenyl-d14	1.00552	1.20574	19.91		
Di-n-octylphthalate	1.60451	1.35203	15.74	*	
Benzo(b)fluoranthene	.95347	1.00685	5.60		
Benzo(k)fluoranthene	.96480	1.02154	5.88		
Benzo(a)pyrene	.92314	.92058	.28	*	
Indeno(1,2,3-cd)pyrene	.75277	.70635	6.17		
Dibenzo(a,h)anthracene	.71360	.65625	8.04		
Benzo(g,h,i)perylene	.79948	.73902	7.56		

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)