182415

432

SAMPLE DATA

SW-4

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER

SW-4

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3272
Sample Matrix: WATER
Data Release Authorized By: Sohail Jahani

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

VOLATILE COMPOUNDS

000433

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/22/86
Date Analyzed: 09/22/86
Conc/Dil Factor: 1 pH: 7.8
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	1.6 JB
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE
If the result is a value greater than or equal to the detection limit, report the value.

U
Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected.The number is the minimum attainable detection limit for the sample.

J
Indicates an estimated value.This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B
This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER
Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

000434

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J.D.E.P.

SAMPLE NO.
SW-4

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/23/86
Date Analyzed: 10/09/86
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes_____ No X
Separatory Funnel Extraction: Yes X
Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U
108-95-2	Phenol	10.0 U
62-53-3	Aniline	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	10.0 U
206-44-0	Fluoranthene	10.0 U
92-87-5	Benzidine	80.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	3.4 J
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

435

SAMPLE NUMBER

SW 4

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/2/86

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No__X__

Separatory Funnel Extraction: Yes__X__

Continuous Liquid-Liquid Extraction: Yes____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.007 J
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.02 J
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

SAMPLE NUMBER

LABORATORY NAME :NANCO LABS.INC.
CASE NO: N.J. D.E.P.

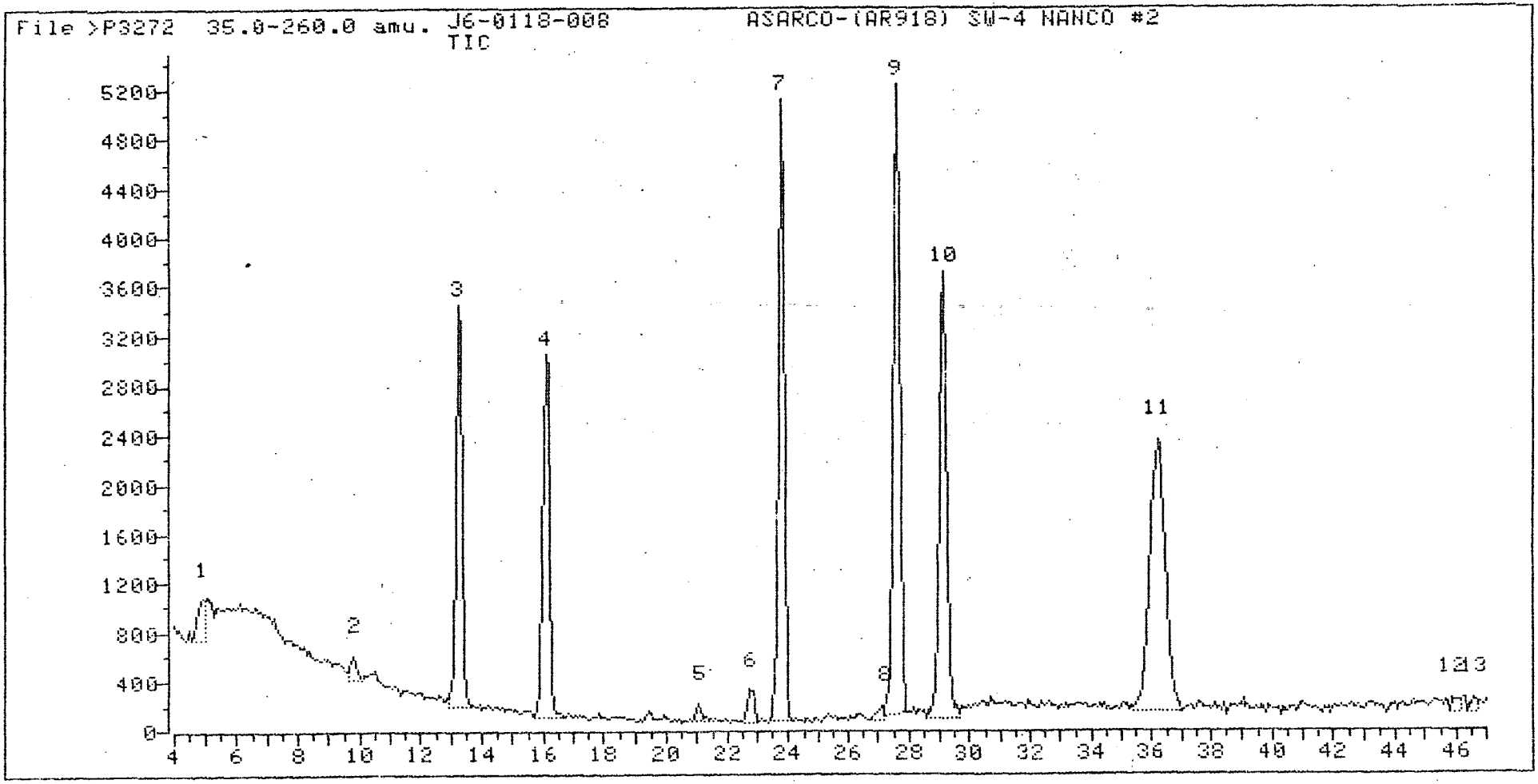
SW-4

000436

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1					
2	-----	NONE FOUND	VOA	------	---------
3					
4					
5	127184	TETRACHLOROETHENE	BNA	6.30	45.0 JB
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

IntS 10:42 9/22/90



PK#

3	BROMOCHLOROMETHANE	(IS
7	1,4-DIFLUOROBENZENE	(IS
10	CHLOROBENZENE-d5	(IS
4	1,2-DICHLOROETHANE-d4	(SR
9	TOLUENE-d8	(SR
11	4-BROMOFLUOROBENZENE	(SR

000437

QUANT REPORT

Operator ID: DALY
Output File: ^P3272::PS
Data File: >P3272::D2
Name: J6-0116-008
Misc: ASARCO-(AR918) SW-4 NANCO #2

Quant Rev: 4
Quant Time: 860922 11:31
Injected at: 860922 10:42
Dilution Factor: 1.00

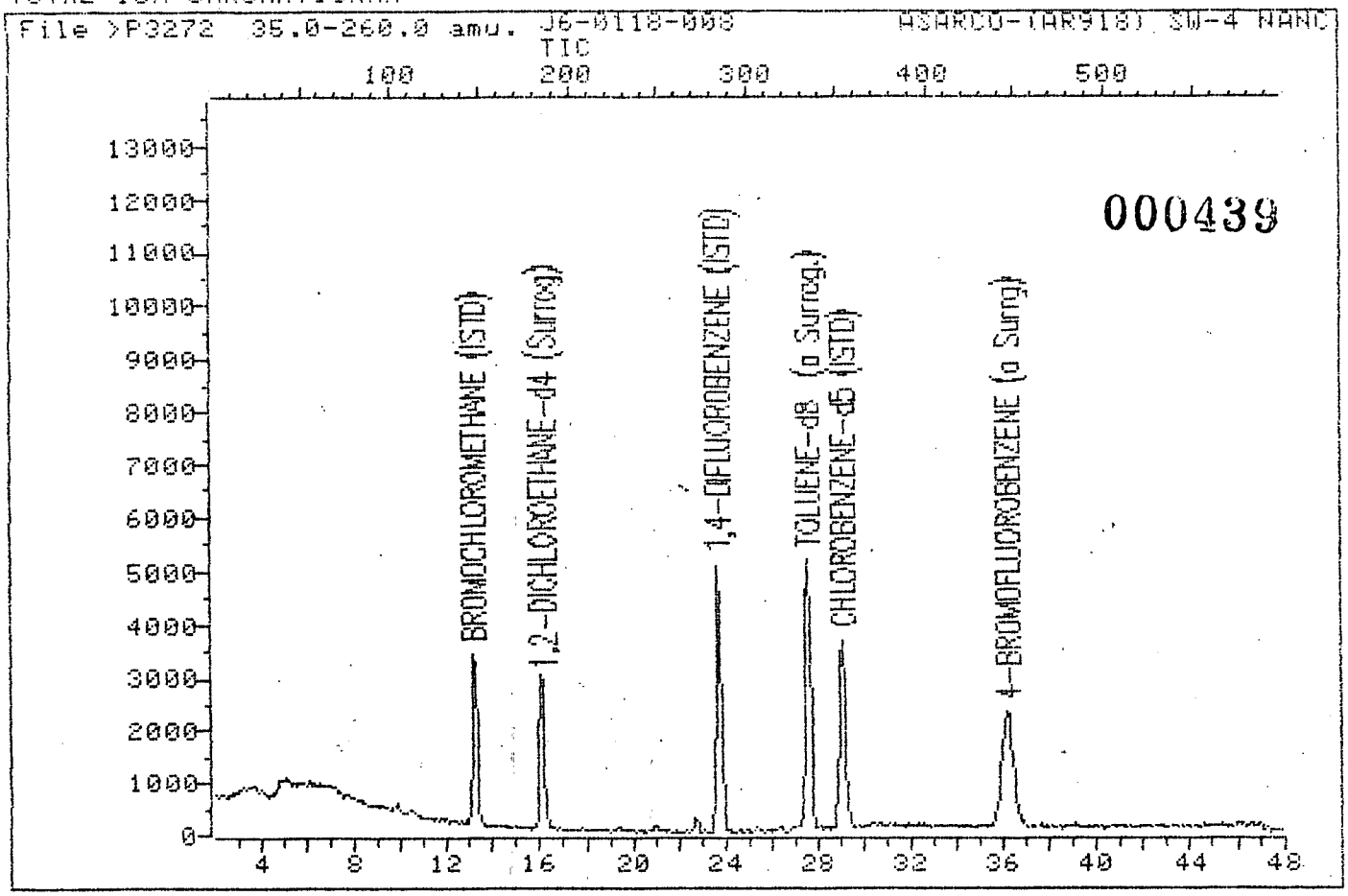
ID File: IDEPA2::NA
Title: IDEPA VOA
Last Calibration: 860922 06:51

000438

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE (ISTD)	13.21	146	6063	50.00	UG	83
14)	*1,4-DIFLUOROBENZENE (ISTD)	23.75	283	25859	50.00	UG	97
29)	*CHLOROBENZENE-d5 (ISTD)	29.13	353	18595	50.00	UG	97
39)	TOLUENE-d8 (a Surrog.)	27.59	333	24933	51.22	UG	96
40)	4-BROMOFLUOROBENZENE (a Surrg)	36.21	445	15564	48.39	UG	73
41)	*[BROMOCHLOROMETHANE (ISTD)]	13.21	146	6063	50.00	UG	83
42)	1,2-DICHLOROETHANE-d4 (Surrog)	16.13	184	14951	48.09	UG	96
61	methylene chloride	9.83	102	419	1.57		

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2

Id File: IDEPA2::NA
Title: IDEPA VOA
Last Calibration: 860922 06:51

Operator ID: DALY
Quant Time: 860922 11:31
Injected at: 860922 10:42

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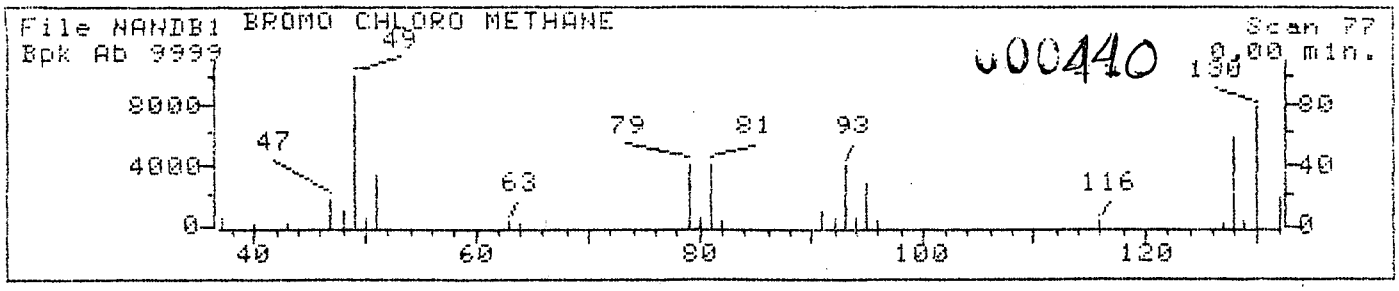

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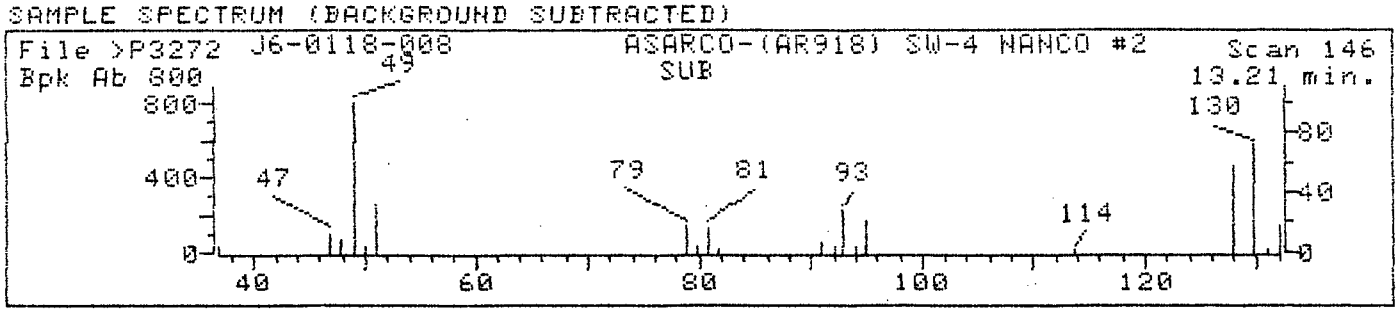

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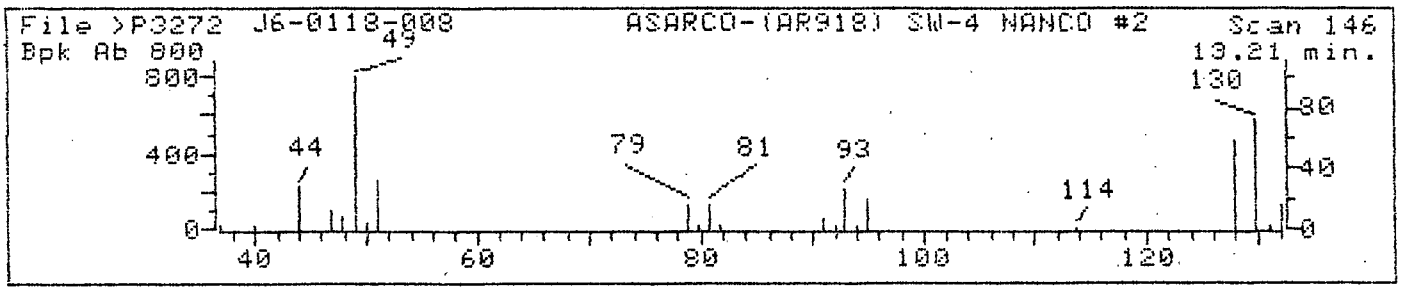
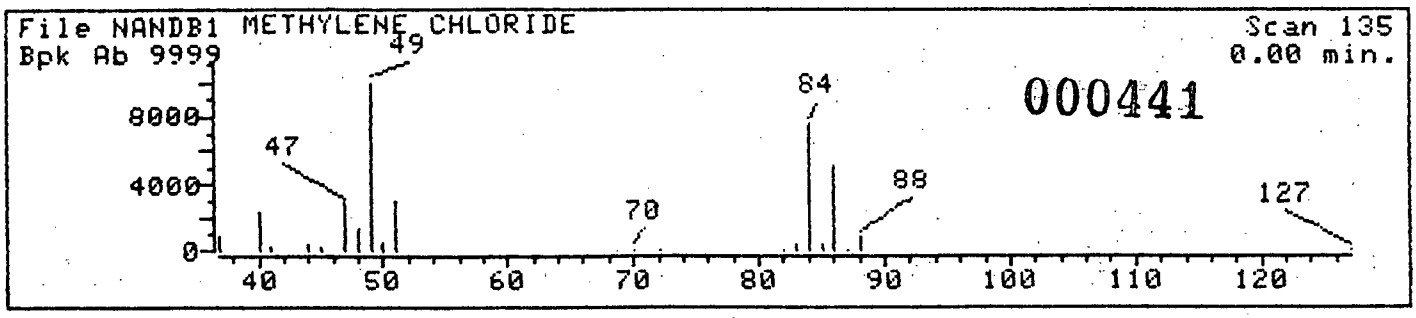
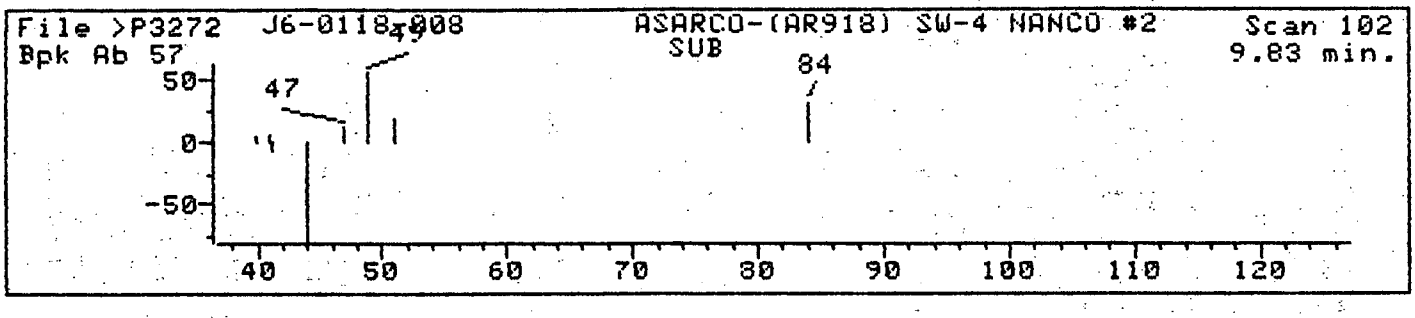
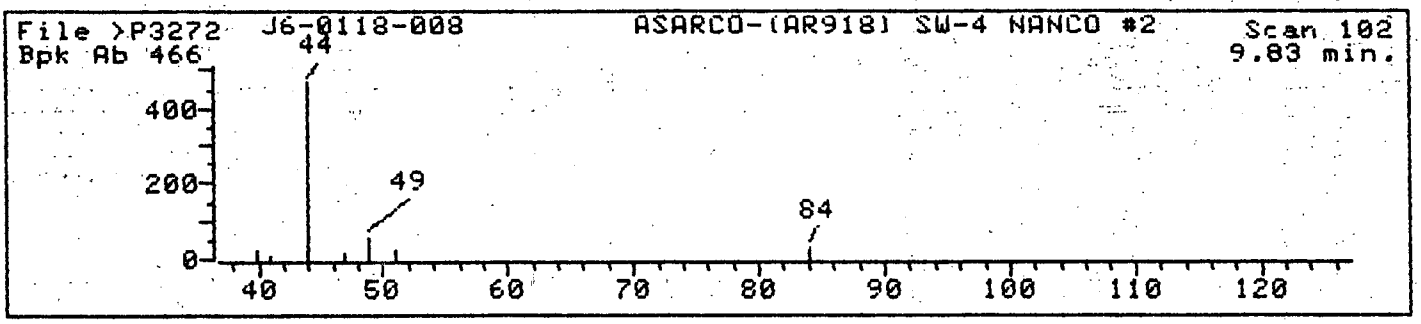


Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

Compound No: 1 (ISTD)
Compound Name: BROMOCHLOROMETHANE (ISTD)
Scan Number: 146
Retention Time: 13.21 min.
Area: 6063
Concentration: 50.00 UG
q-value: 83



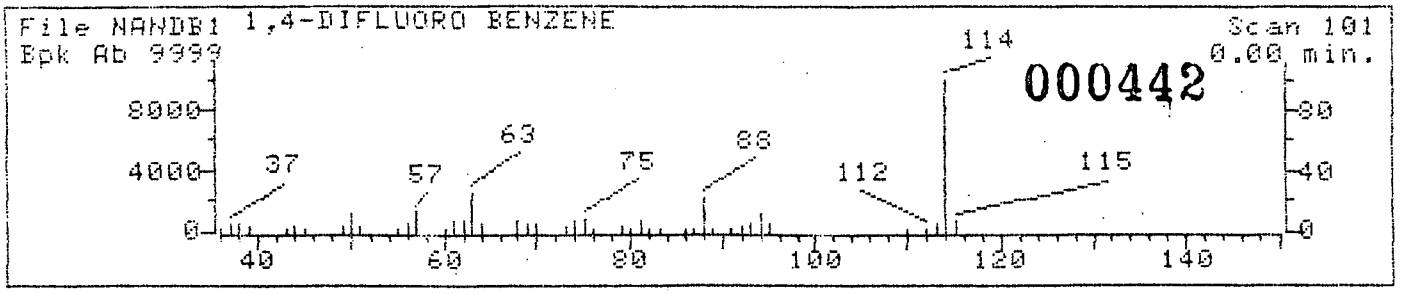




Data File: P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR-918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

Compound No: 6
Compound Name: methylene chloride
Scan Number: 102
Retention Time: 9.83
Area: 419
Concentration: 1.57

REFERENCE STANDARD SPECTRUM



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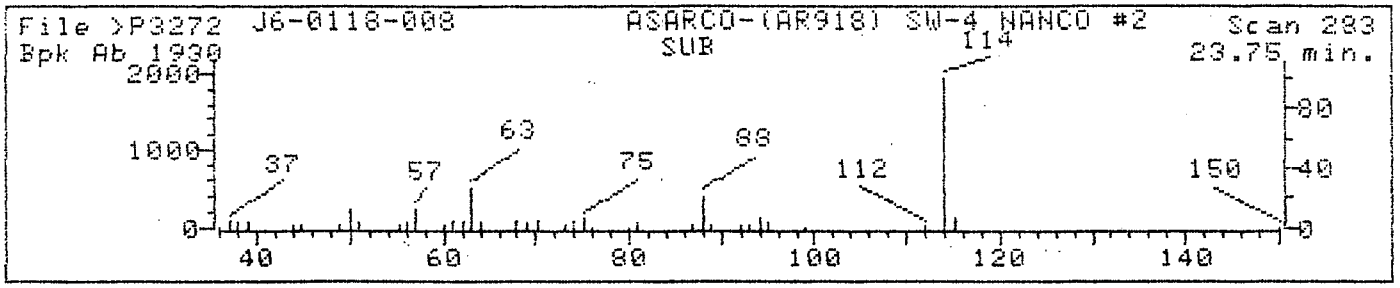

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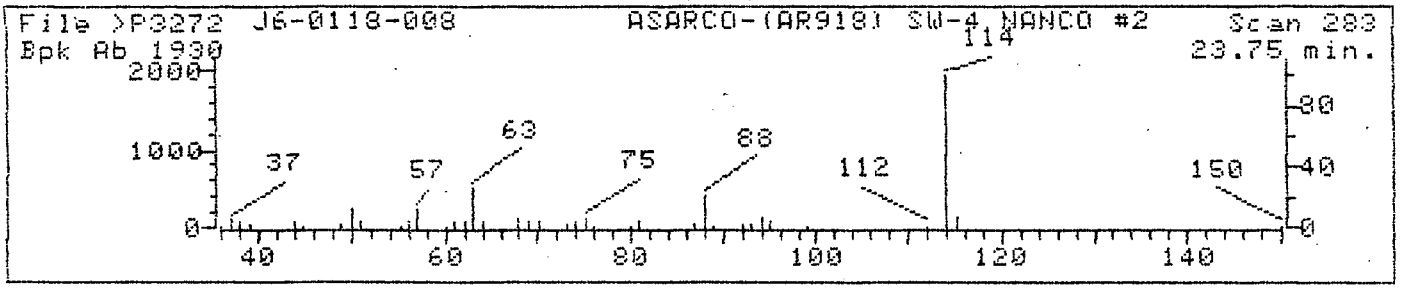


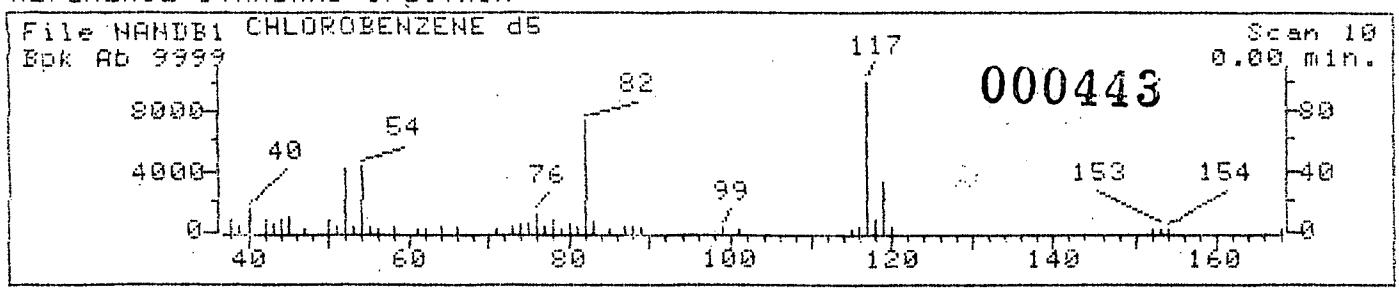
Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

Compound No: 14 (ISTD)
Compound Name: 1,4-DIFLUOROBENZENE (ISTD)
Scan Number: 283
Retention Time: 23.75 min.
Area: 25859
Concentration: 50.00 UG
q-value: 97

✓

80

REFERENCE STANDARD SPECTRUM



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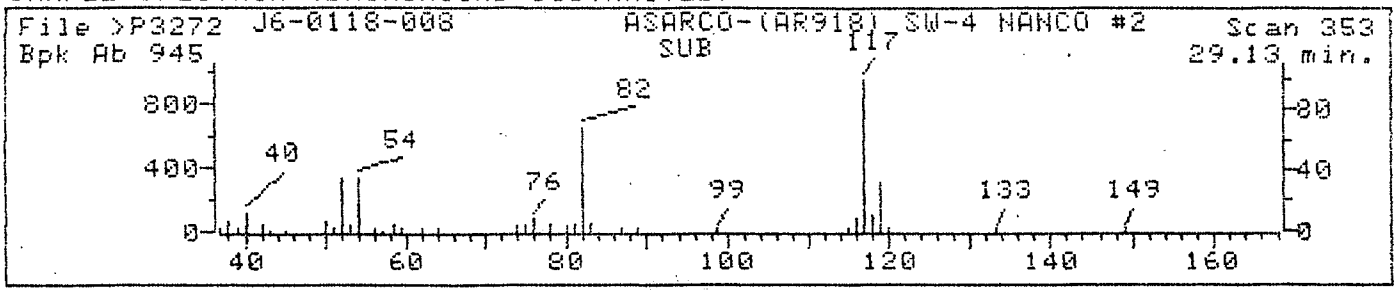

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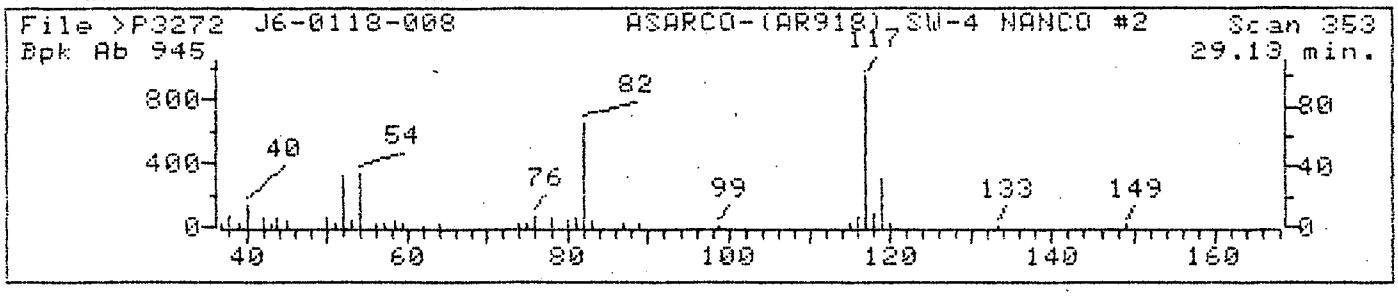
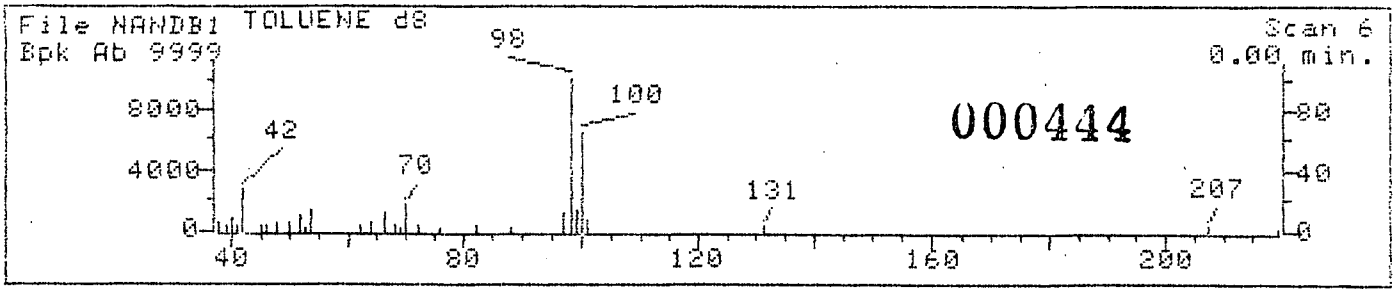


Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

Compound No: 29 (ISTD)
Compound Name: CHLOROBENZENE-d5 (ISTD)
Scan Number: 353
Retention Time: 29.13 min.
Area: 18595
Concentration: 50.00 UG
q-value: 97

J
2D

REFERENCE STANDARD SPECTRUM



000444

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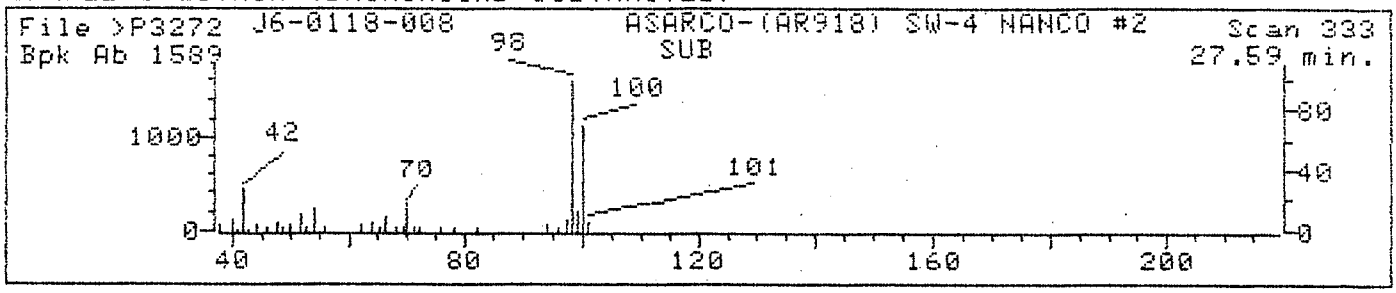

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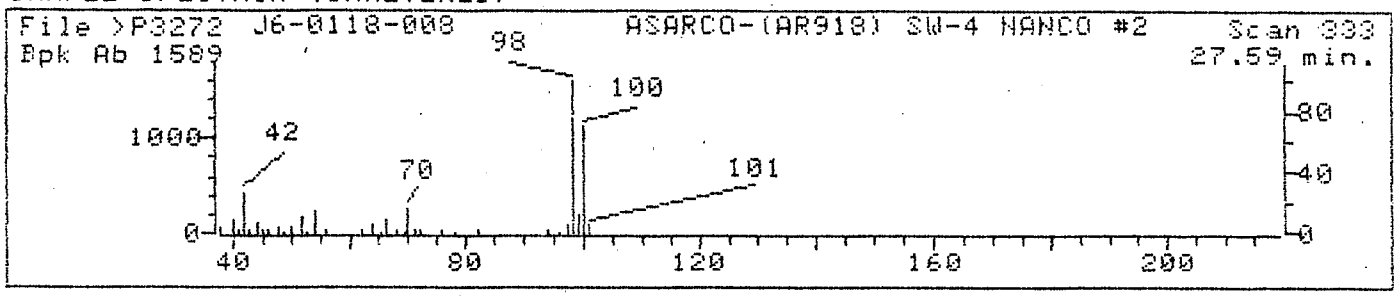
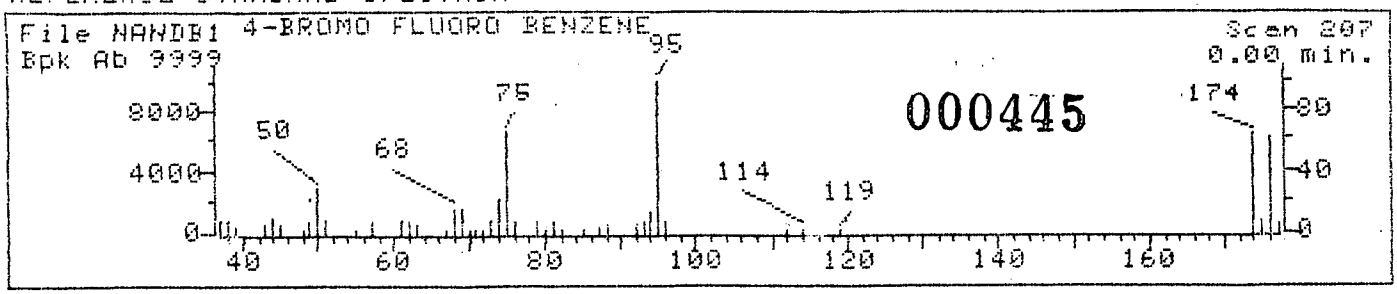


Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

Compound No: 39
Compound Name: TOLUENE-d8 (a Surrog.)
Scan Number: 333
Retention Time: 27.59 min.
Area: 24933
Concentration: 51.22 UG
q-value: 96

✓
JD

REFERENCE STANDARD SPECTRUM



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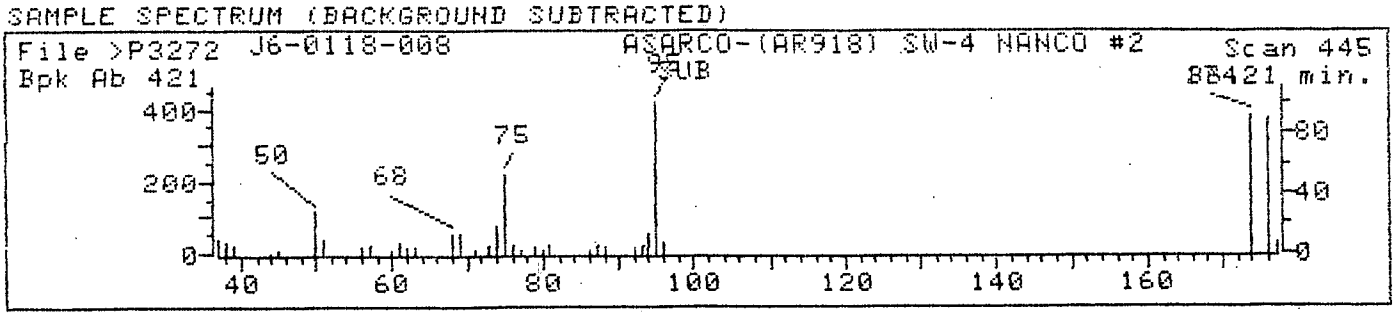
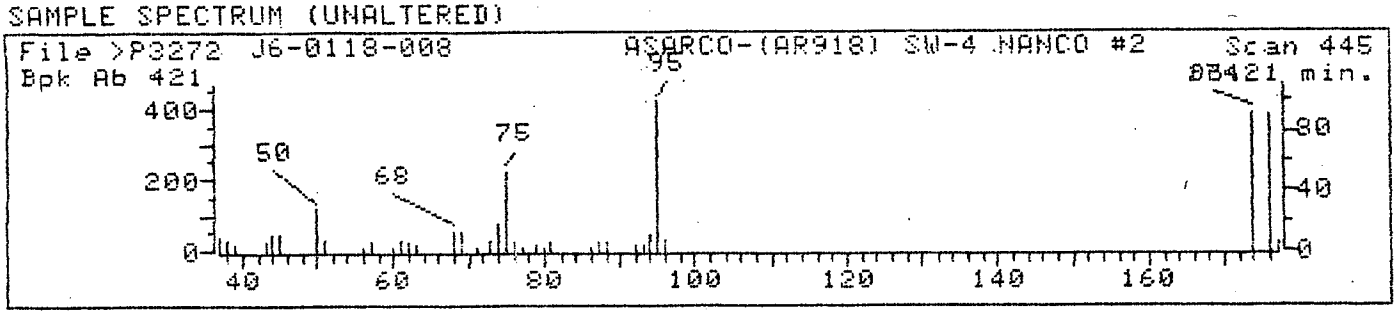


SAMPLE SPECTRUM (UNALTERED)

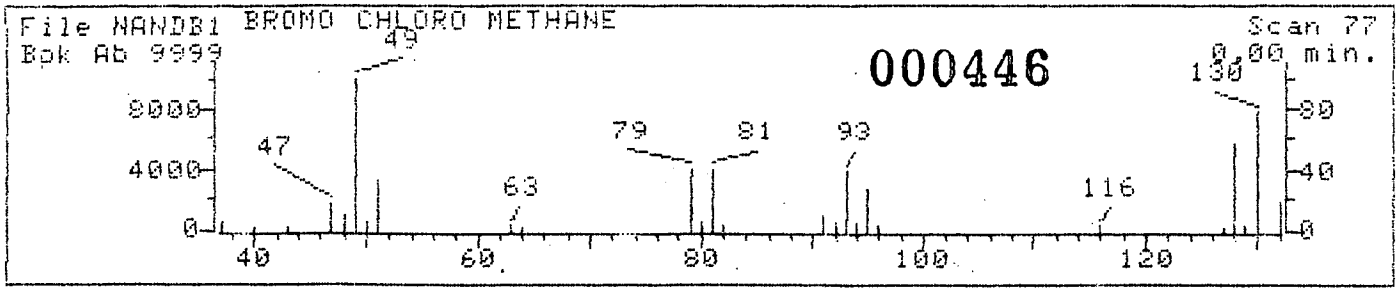


Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

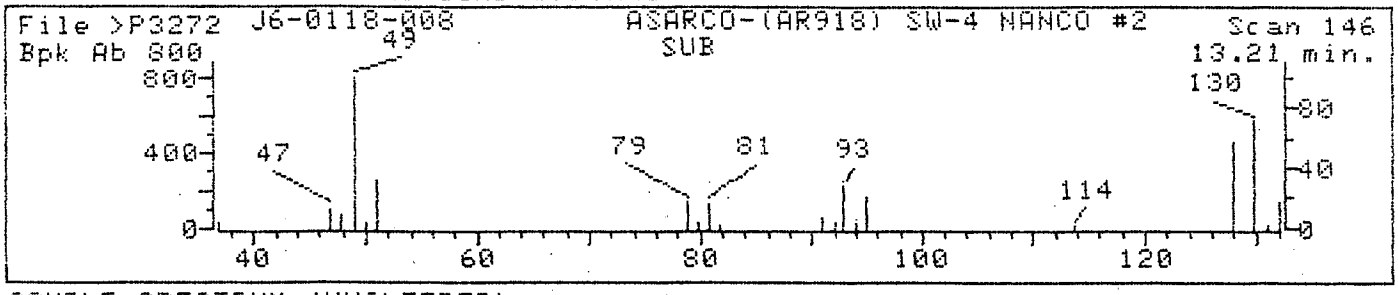
Compound No: 40
Compound Name: 4-BROMOFLUOROBENZENE (a Surrg)
Scan Number: 445
Retention Time: 36.21 min.
Area: 15564
Concentration: 48.39 UG
q-value: 73

✓
80

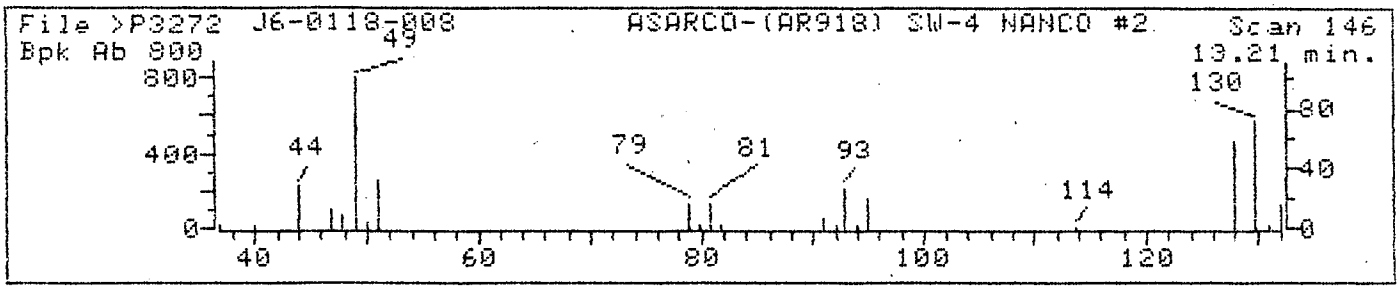
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

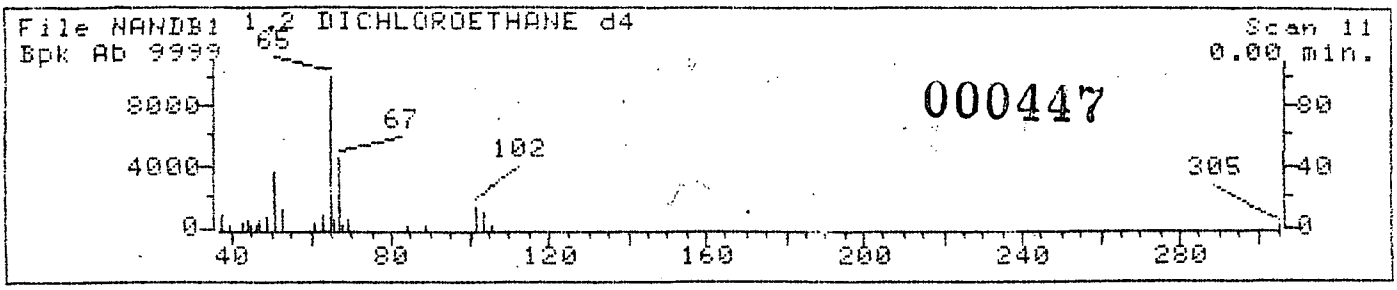


Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

Compound No: 41 (ISTD)
Compound Name: [BROMOCHLOROMETHANE (ISTD)]
Scan Number: 146
Retention Time: 13.21 min.
Area: 6063
Concentration: 50.00 UG
q-value: 83

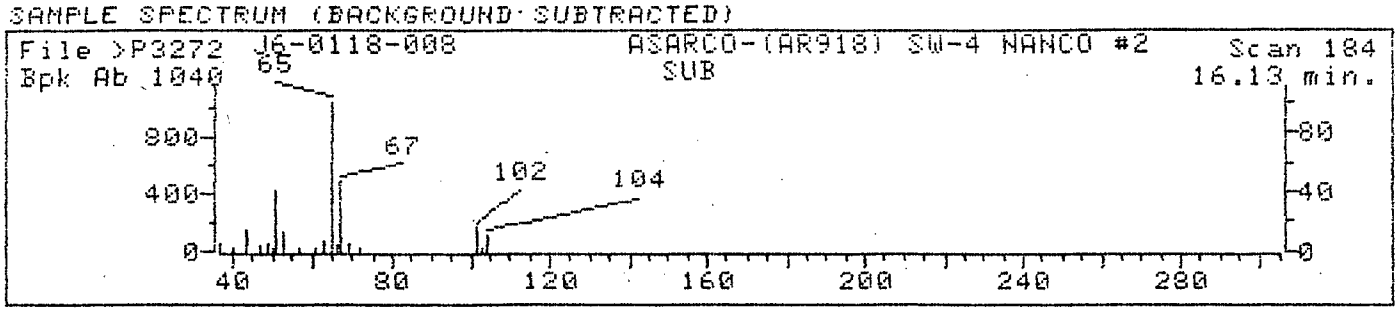
✓
JD

REFERENCE STANDARD SPECTRUM

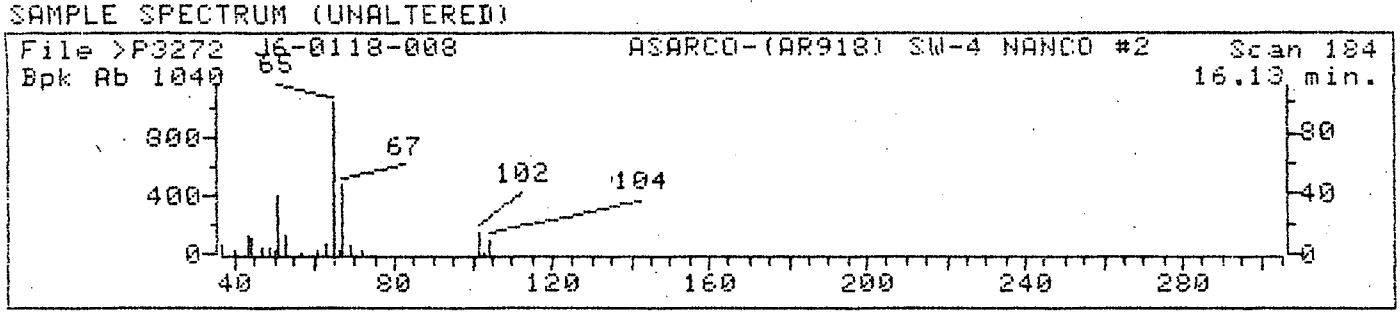


000447

SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >P3272::D2
Name: J6-0118-008
Misc: ASARCO-(AR918) SW-4 NANCO #2
Quant Time: 860922 11:31
Injected at: 860922 10:42

Compound No: 42
Compound Name: 1,2-DICHLOROETHANE-d4 (Surrog)
Scan Number: 184
Retention Time: 16.13 min.
Area: 14951
Concentration: 48.09 UG
q-value: 96

✓
JP

MS data file header from : >P3272

000448

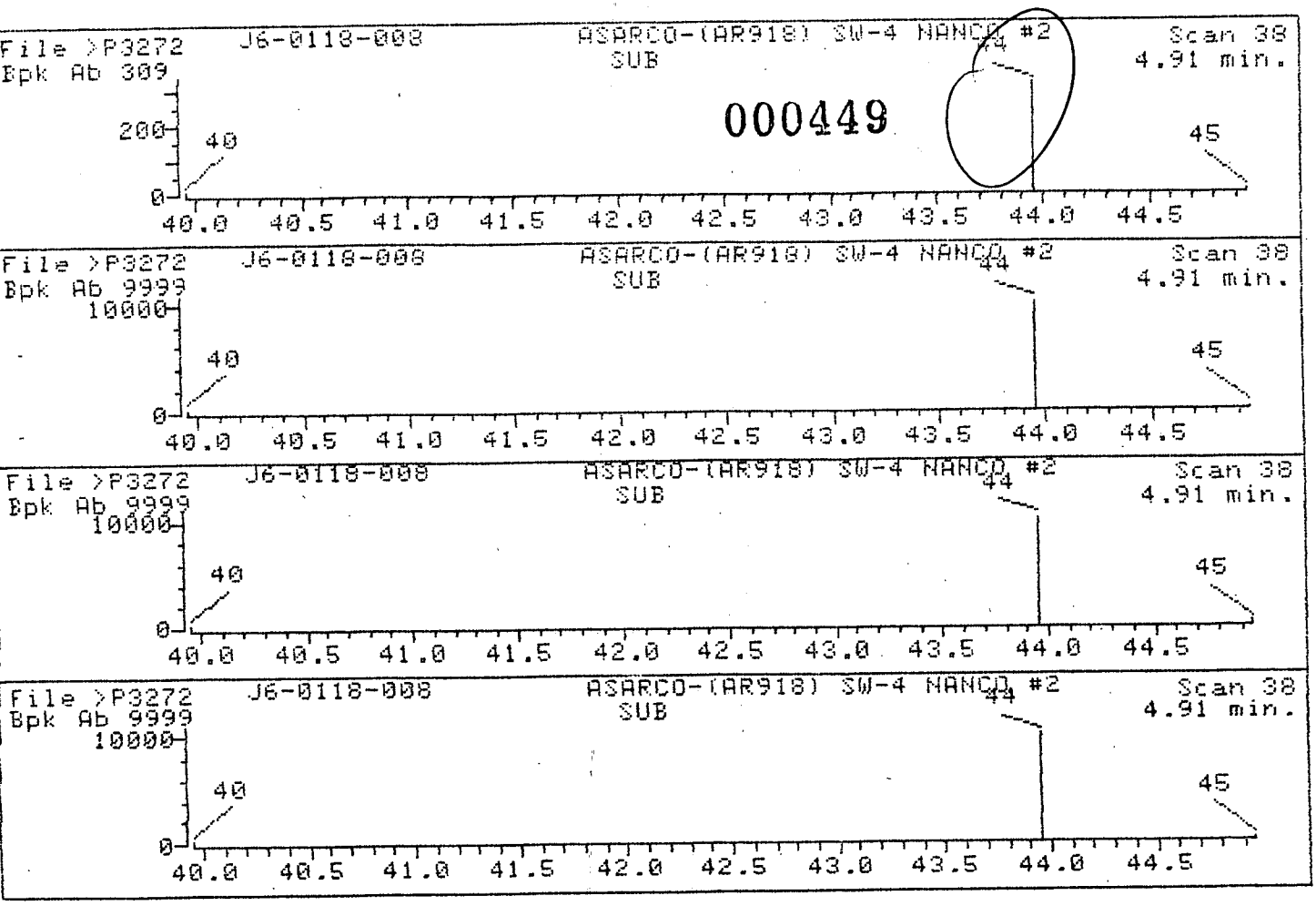
Sample: J6-0118-008 Operator: DALY MS 9/22/86 10:42
Misc : ASARCO-(AR918) SW-4 NANCO #2
Sys. #: 2 MS model: 96 SW/HW rev.: IA ALS # : 0
Method file: METH03 Tuning file: MT9002 No. of extra records: 1
Source temp.: 165 Analyzer temp.: 180 Transfer line temp. : 200

Chromatographic temperatures :	45.	220.	0.	0.	0.
Chromatographic times, min. :	4.0	22.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

>P3272 J6-0118-008 ASARCO-(AR918) SW-4 NANCO #2
- 35.0| 260.0 TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	4.905	34	38	39	317	23007	5680	7.10	1.403
2	9.827	100	102	105	186	12111	2283	2.85	.564
3	13.211	143	146	154	3260	55807	45858	57.29	11.328
4	16.056	178	183	192	2951	49230	42576	53.19	10.517
5	21.055	245	248	254	139	4872	2048	2.56	.506
6	22.747	267	270	273	264	5500	3839	4.80	.948
7	23.747	279	283	288	5043	70602	67860	84.78	16.763
8	27.207	320	328	328	121	4946	2473	3.09	.611
9	27.592	328	333	338	5111	84531	78808	98.46	19.467
10	29.130	346	353	360	3623	74964	69601	86.95	17.193
11	36.206	435	445	456	2200	93807	80043	100.00	19.772
12	45.897	570	571	574	116	4254	1855	2.32	.458
13	46.590	577	580	582	117	4873	1896	2.37	.468

Sum of corrected areas: 404820.



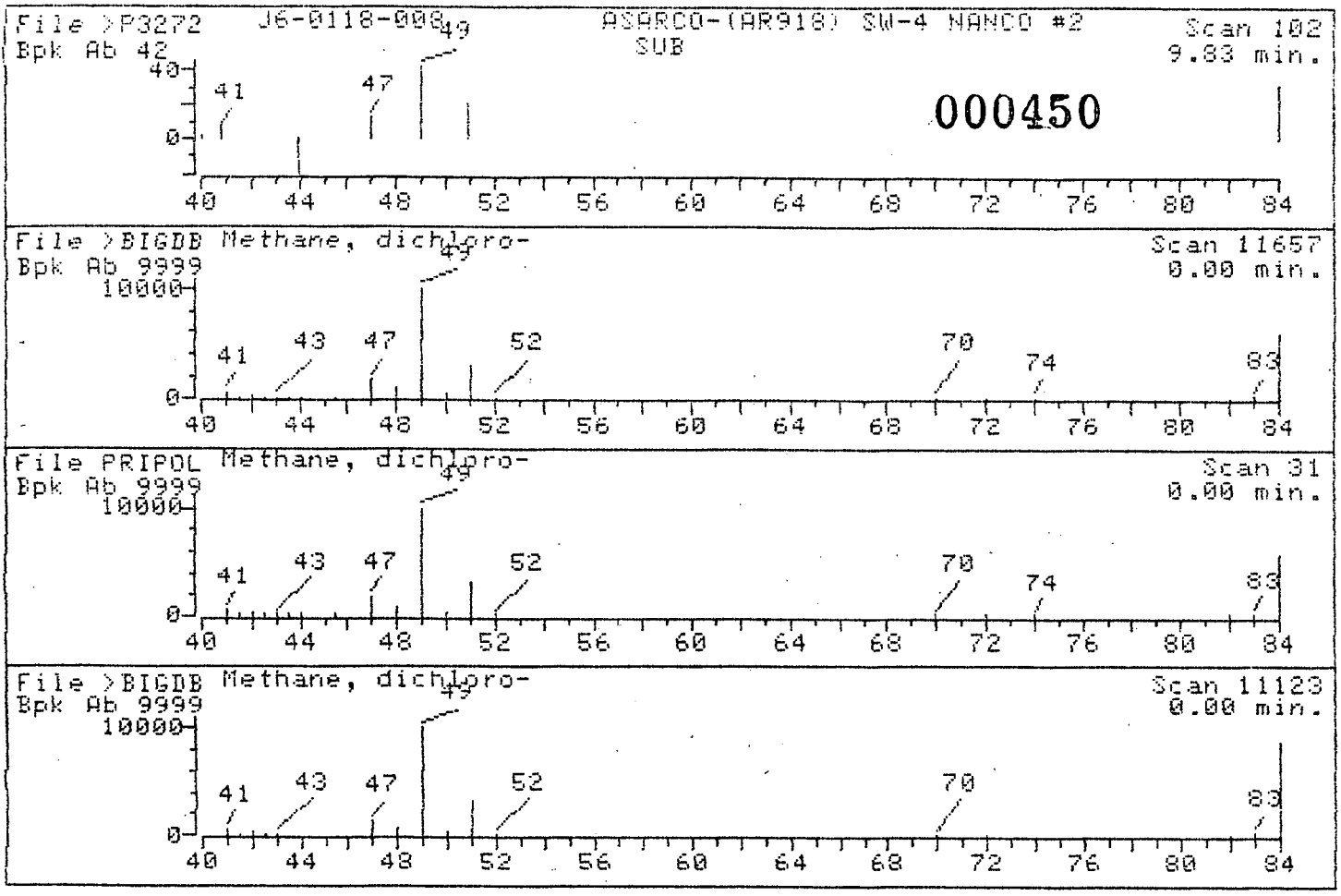
Sample file: >P3272 Spectrum #: 38

No data base entries were retrieved.

COr

X

Jos

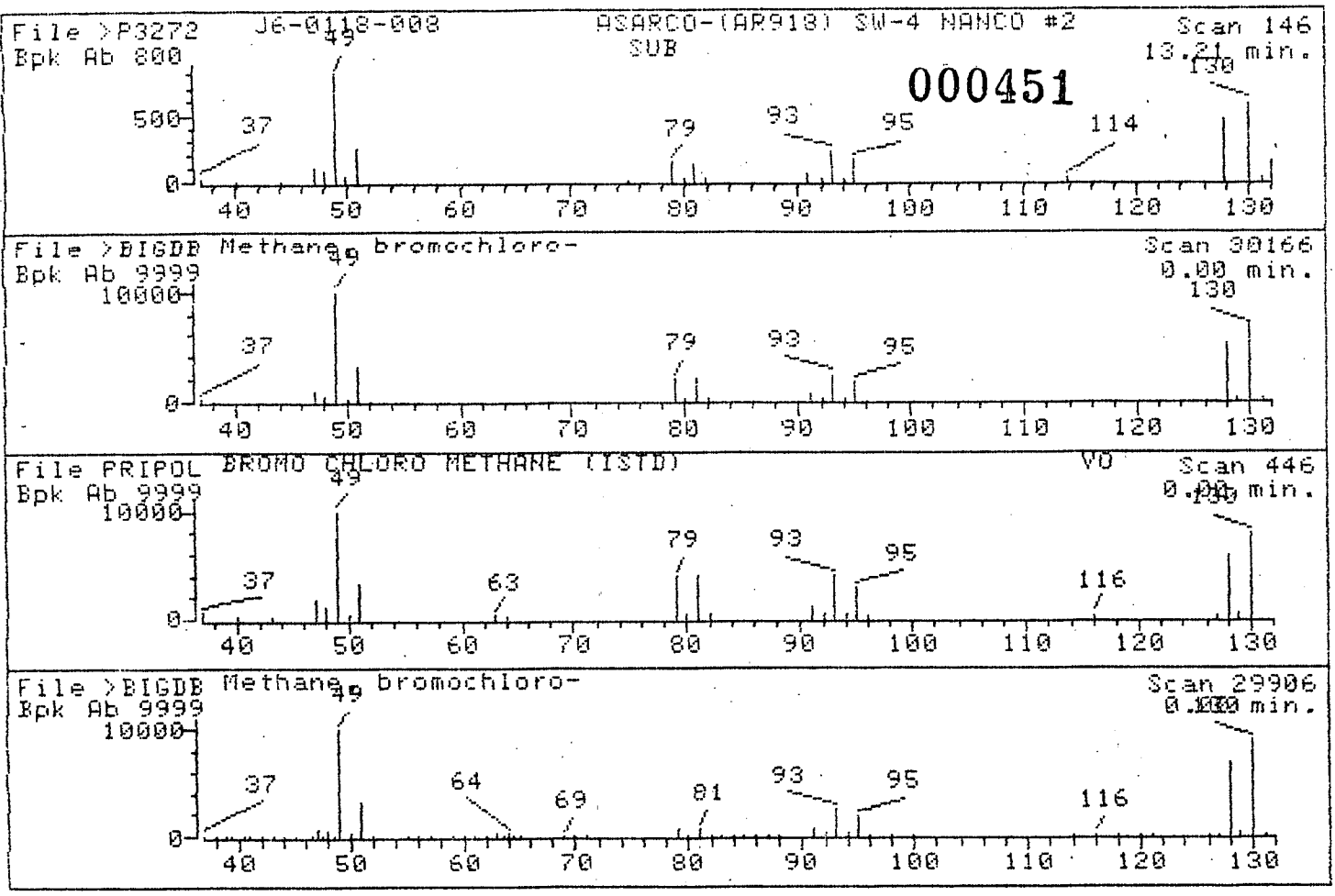


1. Methane, dichloro- 84 CH2Cl2
2. Methane, dichloro- 84 CH2Cl2
3. Methane, dichloro- 84 CH2Cl2
4. Methane, dichloro- 84 CH2Cl2

1 20 2

Sample file: >P3272 Spectrum #: 102
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

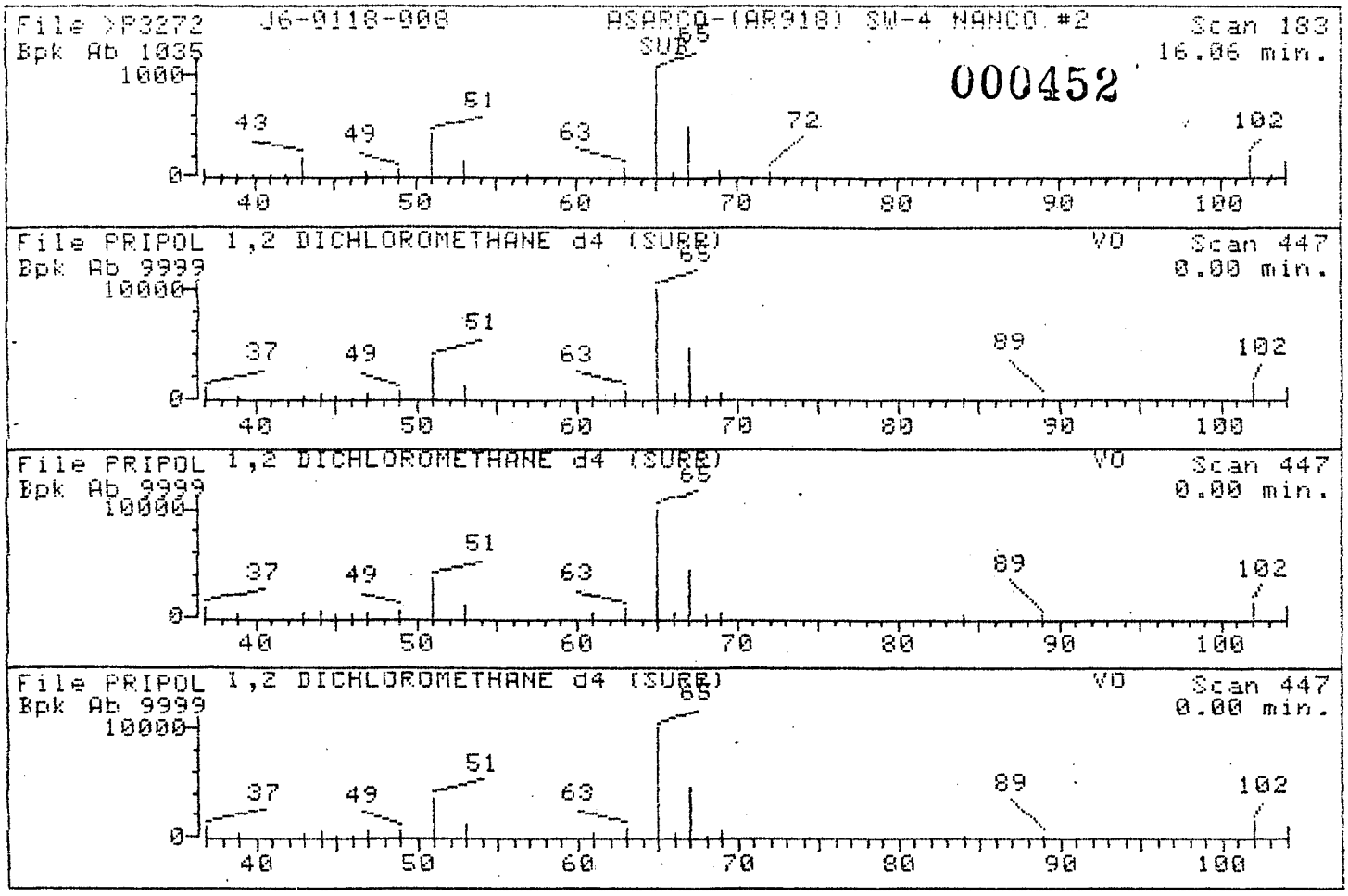
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	75092	11657	"BIGDB	29	74	3	0	100	12	30	13
2.	60*	31	112	PRIPOL	29	74	3	0	100	12	30	13
3.	52*	75092	11123	"BIGDB	22	79	3	0	88	20	20	12
4.	52*	28	110	PRIPOL	22	79	3	0	88	20	20	12



1. ~~Methane, bromochloro-~~ 128 CH2BrCl
2. BROMO CHLORO METHANE (ISTD) VO 128 CH2BrCl
   A INTERNAL STANDARD
3. ~~Methane, bromochloro-~~ 128 CH2BrCl

Sample file: >P3272 Spectrum #: 146
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*	74975	30166	"BIGDB	101	12	1	0	84	3	72	94
2.	89*	446	204	PRIPOL	90	36	2	0	68	3	66	69
3.	89*	74975	29906	"BIGDB	80	32	2	0	77	5	66	61

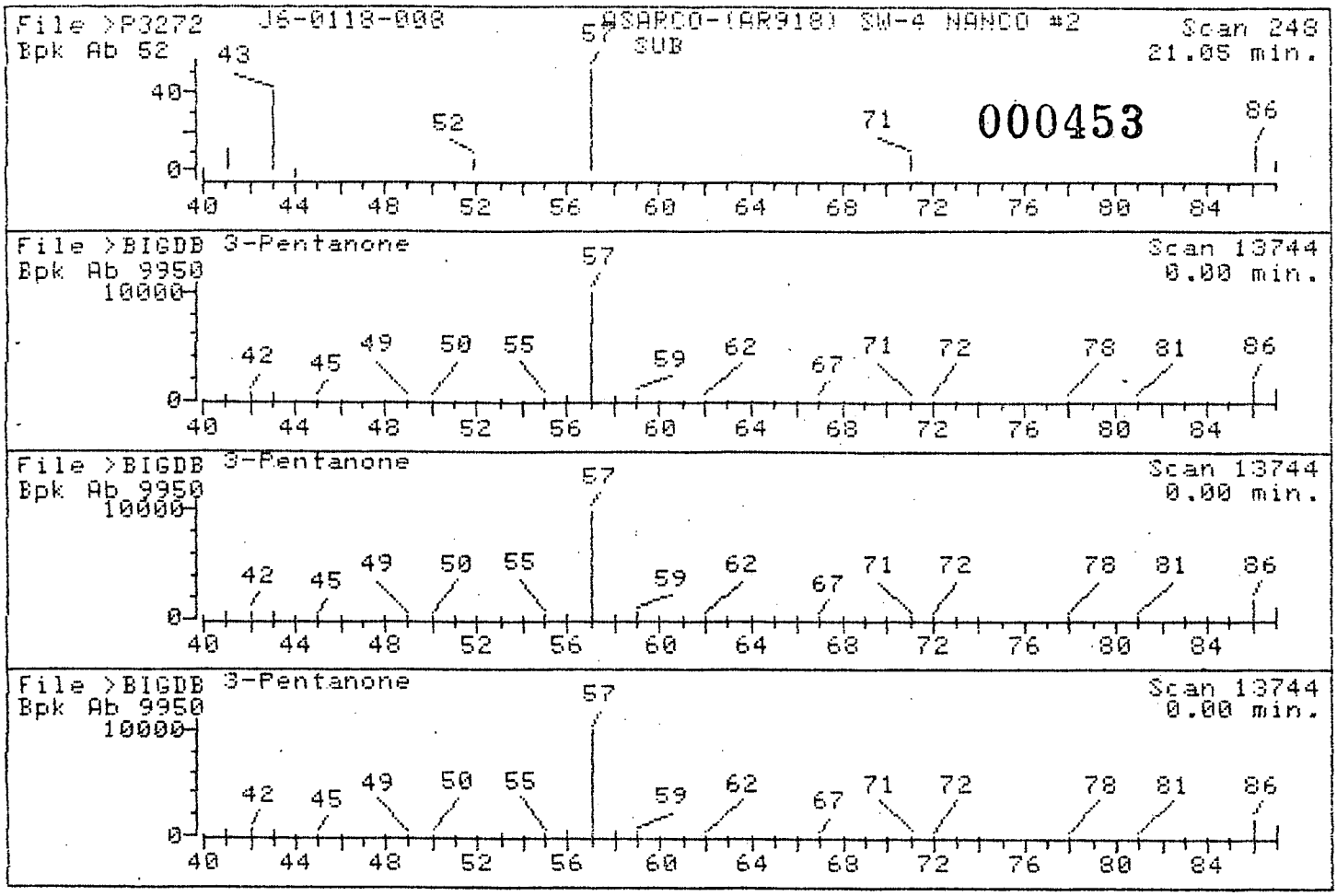


1. 1,2 DICHLOROMETHANE d4 (SURR)
LATILE SURROGATE

VO 102

Sample file: >P3272 Spectrum #: 183
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.	86*	447	64	PRIPOL	59	41	2	0	100	1	60	36



000453

>10% of IS

X

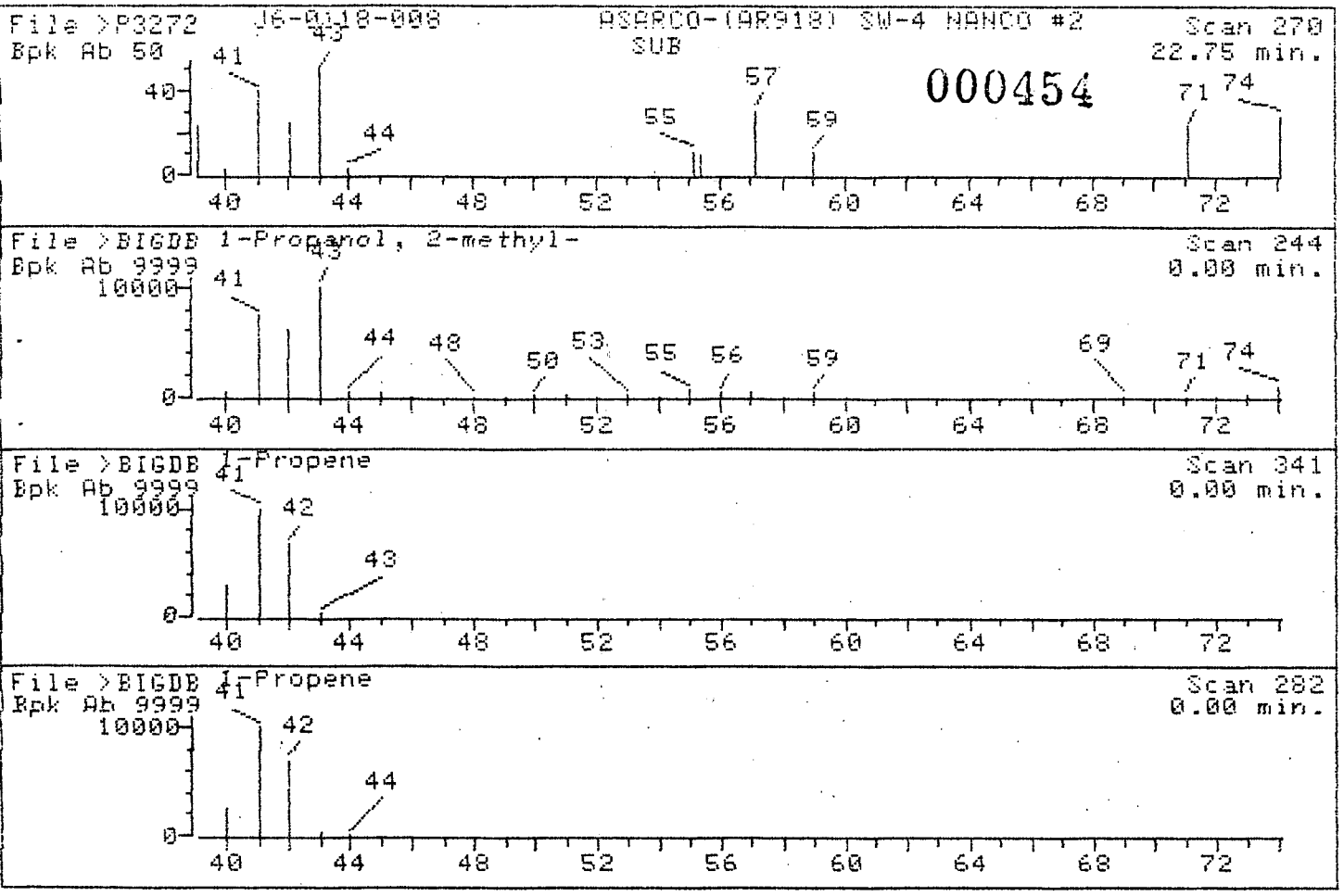
20

5

1. 3-Pentanone 86 C5H10O

Sample file: >P3272 Spectrum #: 248
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.	20*	96220	13744	"BIGDB	21	68	2	0	100	51	5	13



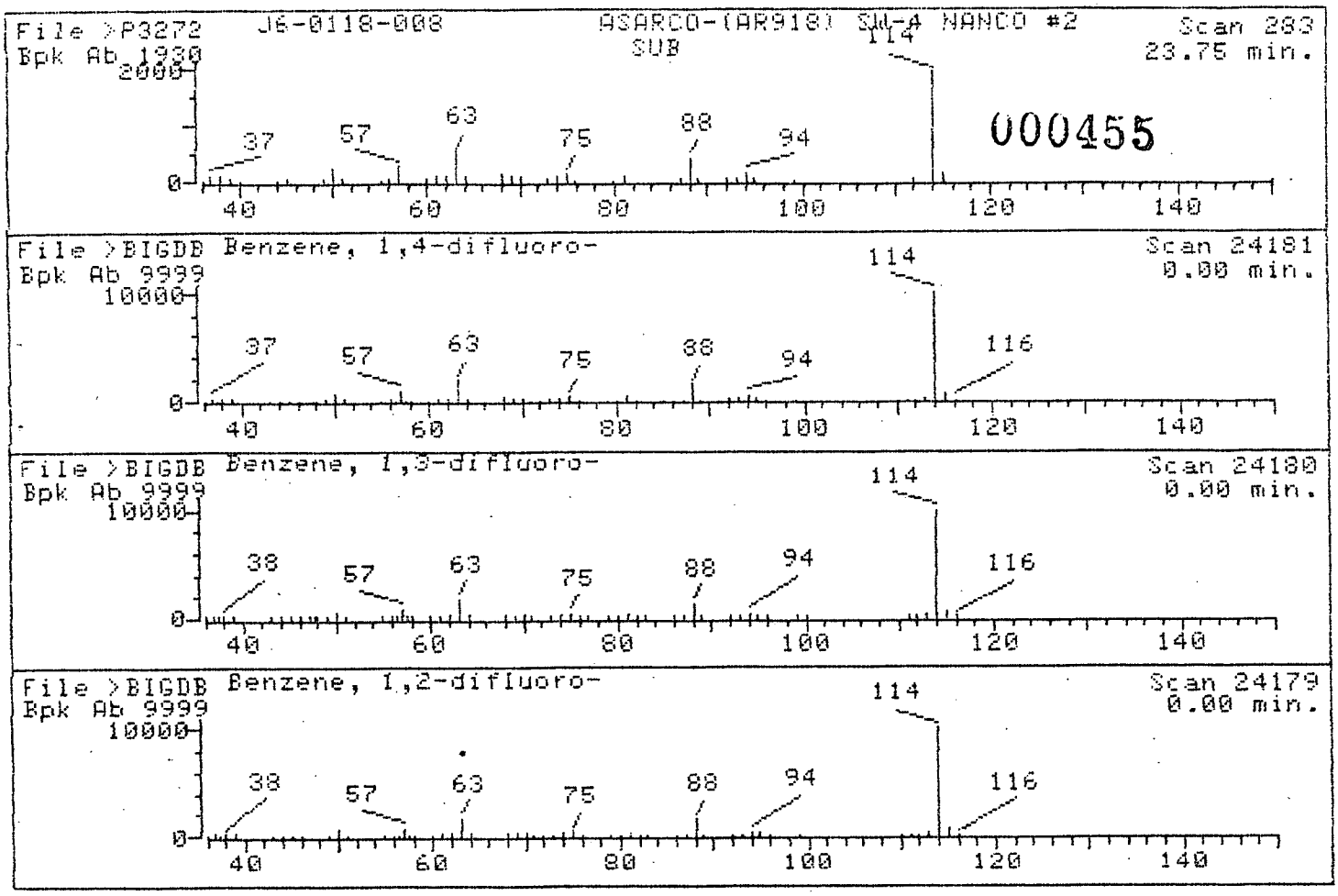
710% of IS

6

1. 1-Propanol, 2-methyl- 74 C4H10O
2. 1-Propene 42 C3H6
3. 1-Propene 42 C3H6
4. 1-Propene 42 C3H6
5. 1-Propene 42 C3H6

Sample file: >P3272 Spectrum #: 270
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.	25*	78831	244	"BIGDB	20	80	2	0	78	46	7	13
2.	15*	115071	341	"BIGDB	24	57	1	0	59	59	3	14
3.	15*	115071	282	"BIGDB	21	63	1	0	69	59	3	14
4.	15*	115071	289	"BIGDB	21	69	1	0	66	59	3	14
5.	15*	115071	304	"BIGDB	21	74	1	0	63	60	3	14



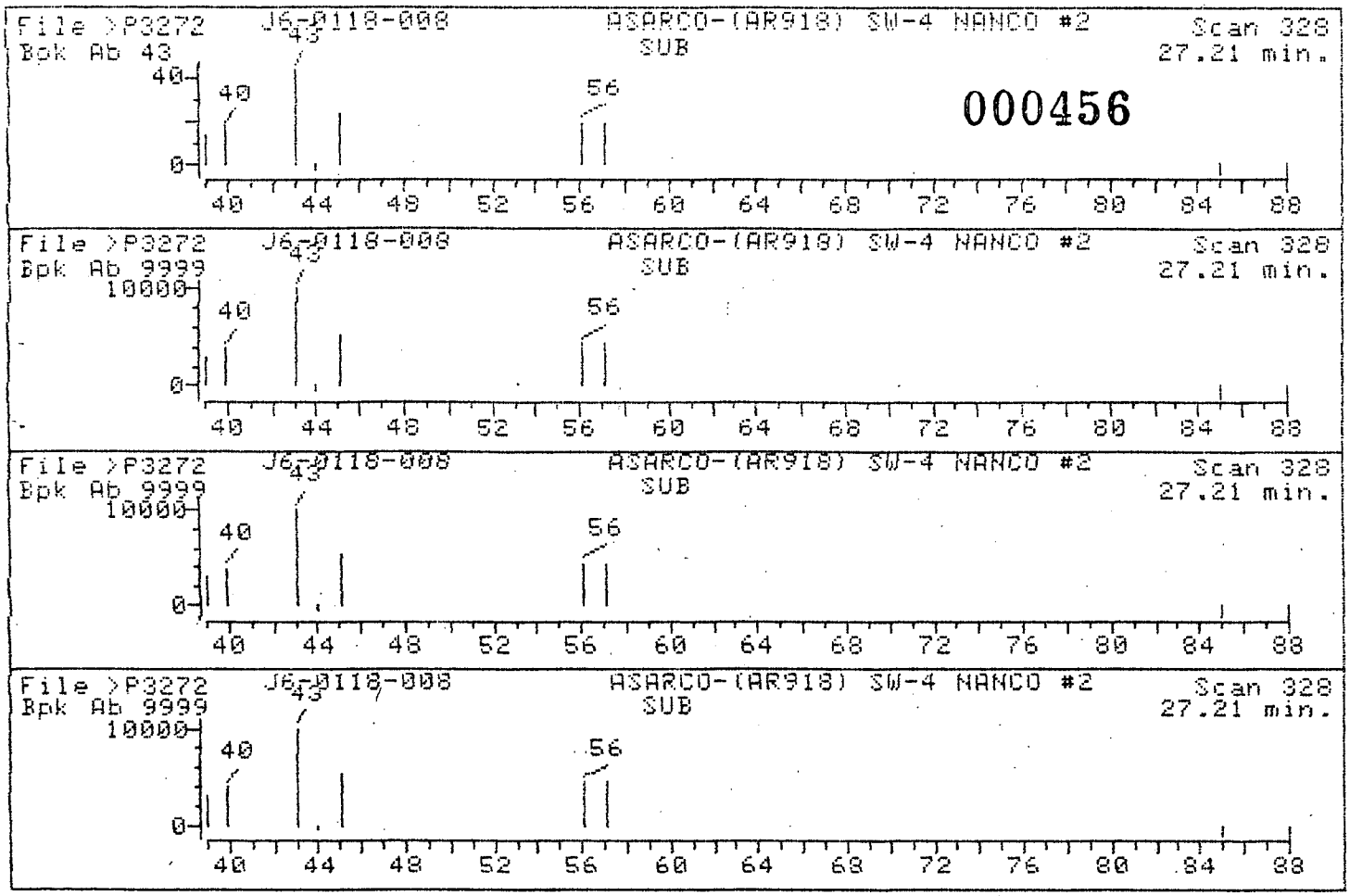
000455

7

1. Benzene, 1,4-difluoro- ISTD — 114 C6H4F2
2. Benzene, 1,3-difluoro- — 114 C6H4F2
3. Benzene, 1,2-difluoro- — 114 C6H4F2
4. Benzene, 1,4-difluoro- — 114 C6H4F2

Sample file: >P3272 Spectrum #: 283
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.	95*	540363	24181	"BIGDB	79	10	1	0	100	1	72	95
2.	84*	372189	24180	"BIGDB	62	23	1	0	100	9	55	67
3.	84*	367113	24179	"BIGDB	58	27	1	0	100	7	55	60
4.	42*	540363	24611	"BIGDB	40	41	2	0	100	26	14	19



000456

Sample file: >P3272 Spectrum #: 328

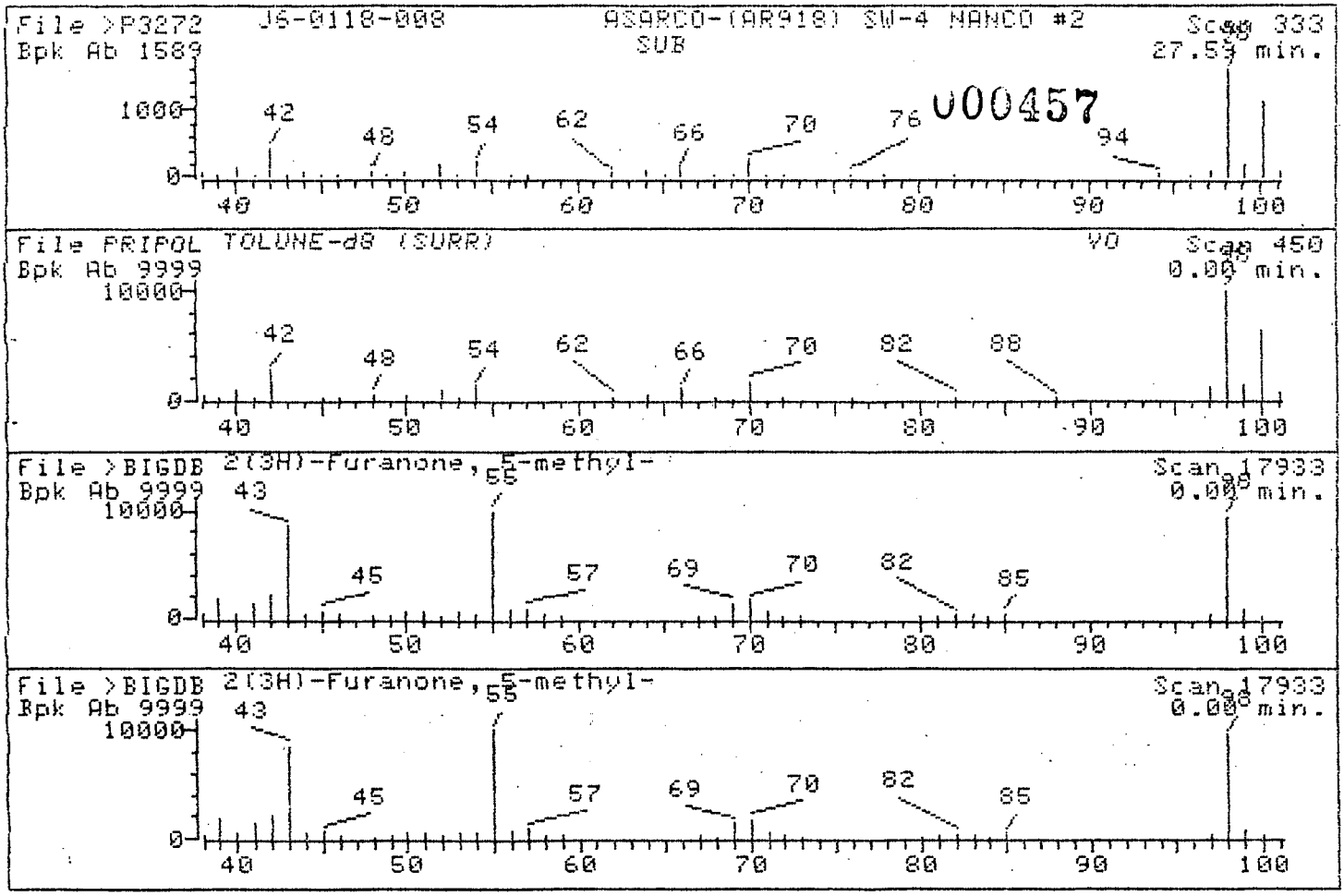
No data base entries were retrieved.

8

~10% of IS

X

gp

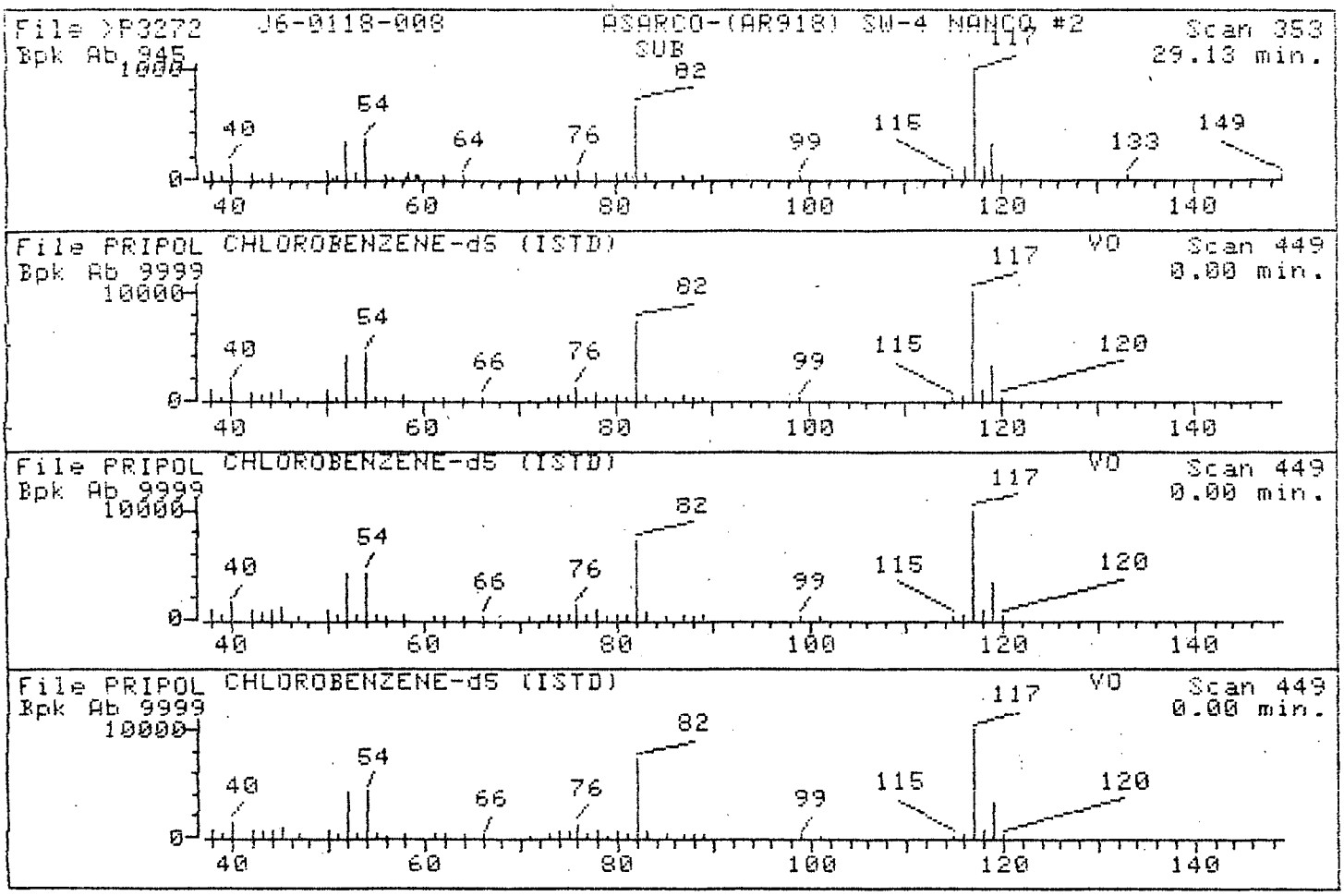


000457

1. TOLUNE-d8 (SURR) VO 96
~~LATILE SURROGATE~~
2. 2(3H)-Furanone, 5-methyl- 98 C5H6O2

Sample file: >P3272 Spectrum #: 333
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.	44	450	158	PRIPOL	73	25	2	0	83	31	16	27
2.	30*	591128	17933	"BIGDB	27	73	3	0	105	31	12	13



000458

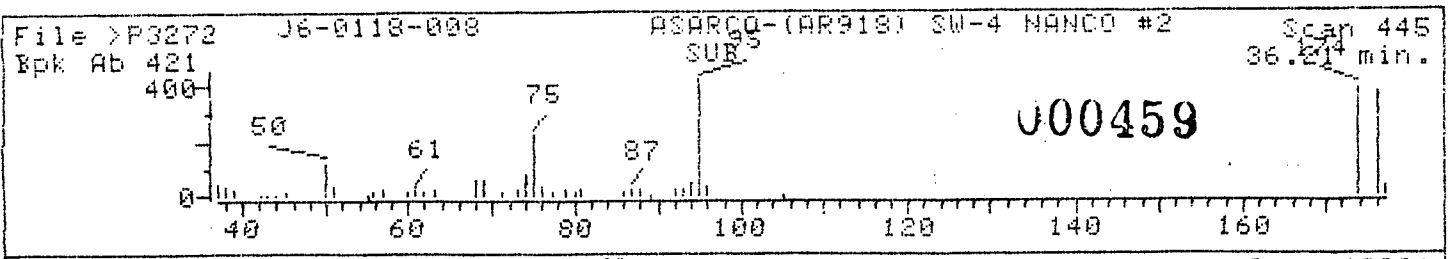
1. CHLOROBENZENE-d5 (ISTD)
A INTERNAL STANDARD

VO 117

Sample file: >P3272 Spectrum #: 353
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

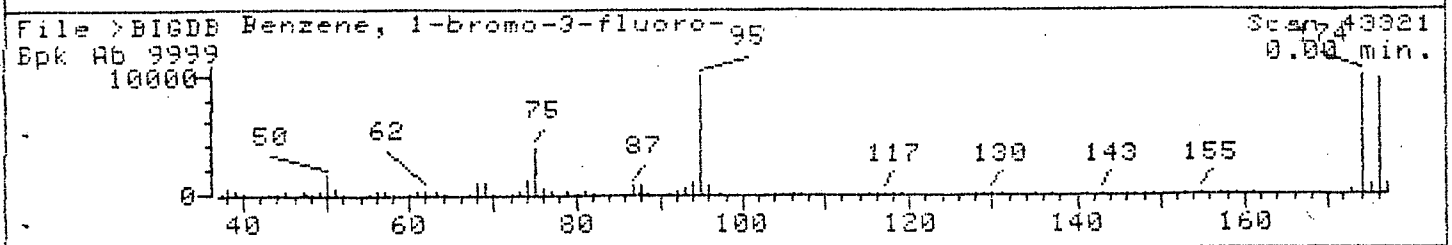
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78*	449	177	PRIPOL	32	73	3	0	95	2	55	13

File >P3272 J6-0118-008 ASARCO-(AR918) SW-4 NANCO #2 Scan 445
Bpk Ab 421 SUR 36.21 min.

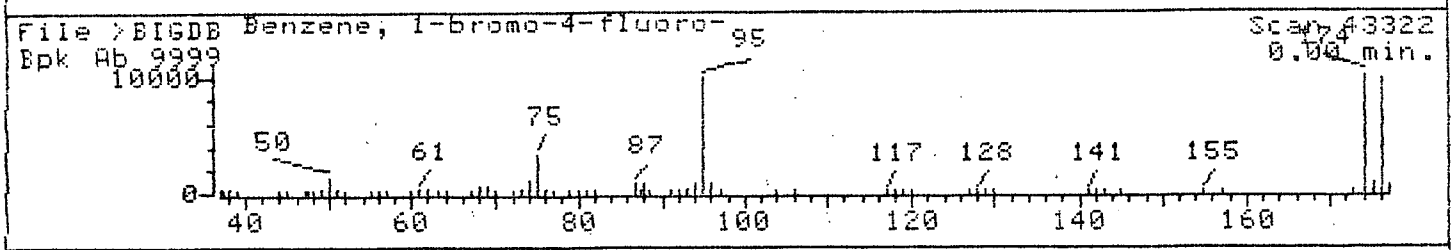


U00459

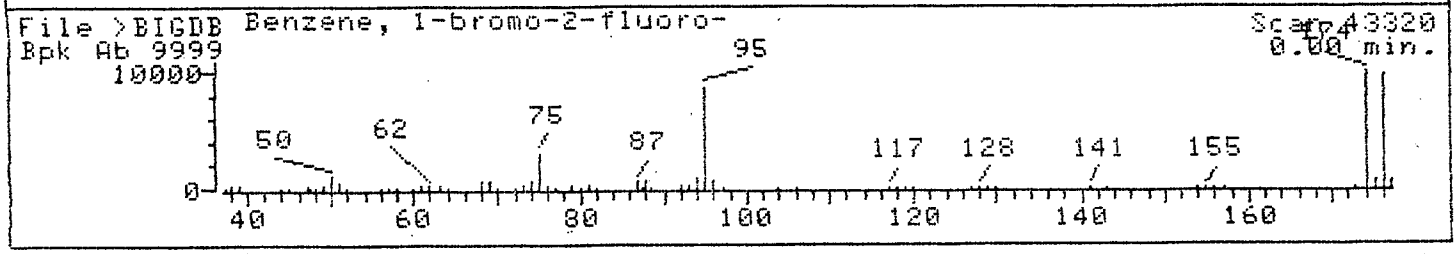
File >BIGDB Benzene, 1-bromo-3-fluoro- Scan 43321
Bpk Ab 9999 0.00 min.



File >BIGDB Benzene, 1-bromo-4-fluoro- Scan 43322
Bpk Ab 9999 0.00 min.



File >BIGDB Benzene, 1-bromo-2-fluoro- Scan 43320
Bpk Ab 9999 0.00 min.



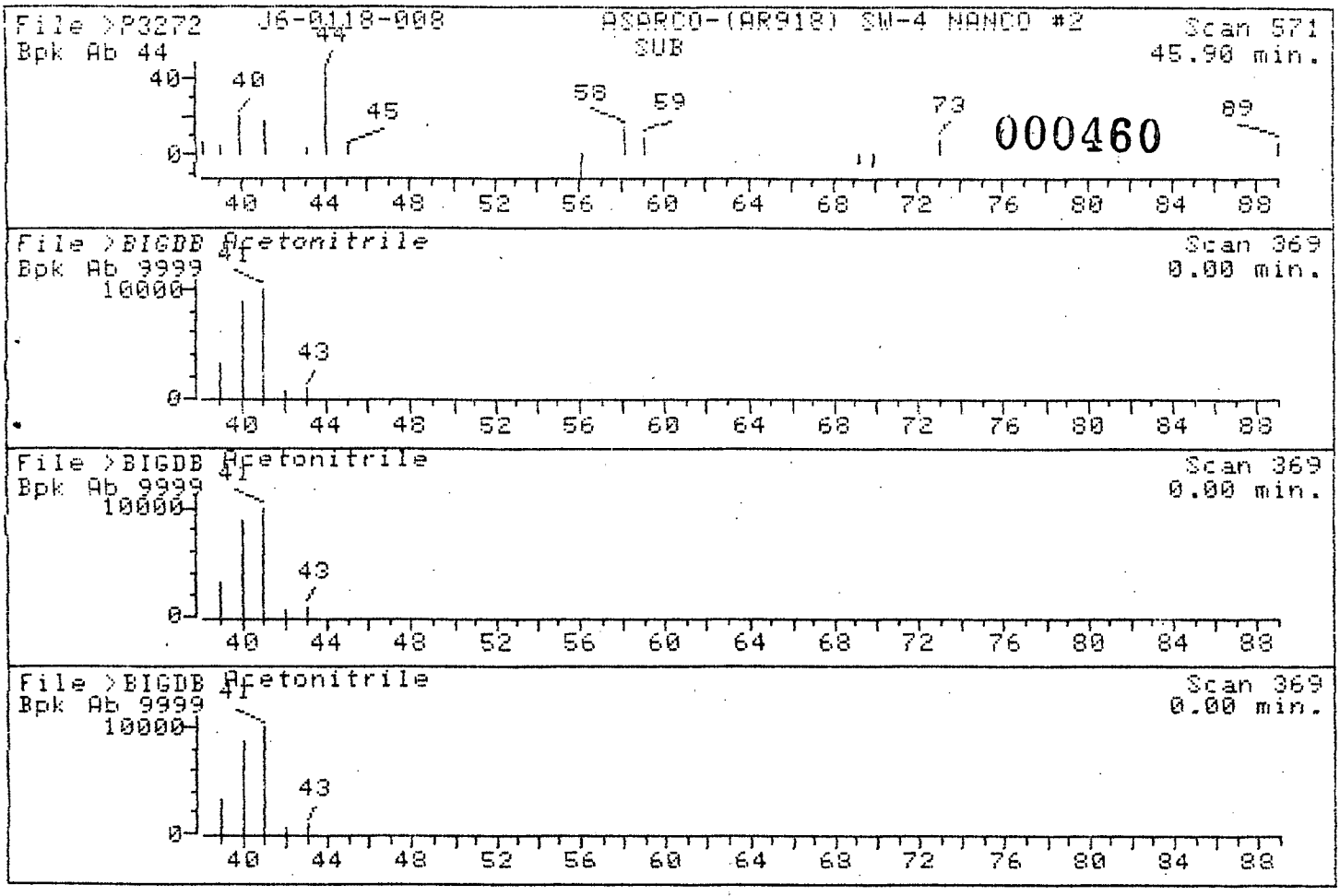
11

1. Benzene, 1-bromo-3-fluoro- 174 C6H4BrF
2. Benzene, 1-bromo-4-fluoro- 174 C6H4BrF
3. Benzene, 1-bromo-2-fluoro- 174 C6H4BrF
4. 4-BROMO FLUORO BENZENE SU 174 C6H4BrF
RROGATE COMPOUND

20

Sample file: >P3272 Spectrum #: 445
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.	86*	1073069	43321	"BIGDB	58	55	2	0	91	3	60	35
2.	70*	460004	43322	"BIGDB	48	62	2	0	91	9	42	19
3.	70*	1072851	43320	"BIGDB	42	65	2	0	91	9	42	14
4.	68*	451	144	PRIPOL	71	45	2	0	80	25	30	52



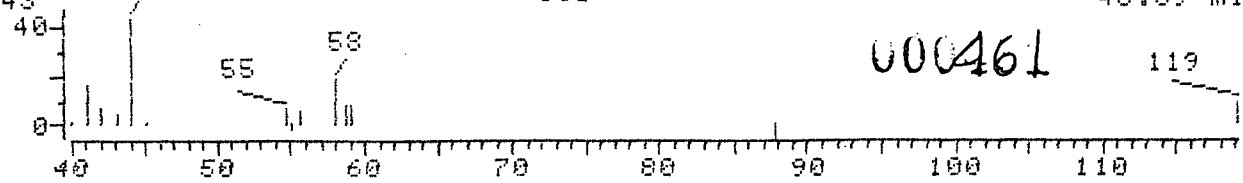
70% of IS
X 90

1. Acetonitrile 41 C2H3N 12

Sample file: >P3272 Spectrum #: 571
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

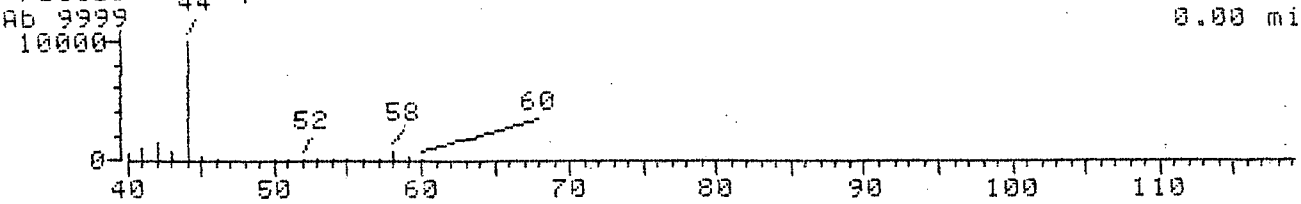
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	75058	369	"BIGDB	23	29	2	0	40	61	2	13

File >P3272 16-0118-008 ASARCO-(AR918) SW-4 NANCO #2 SUB Scan 580 46.59 min.
Bpk Ab 43

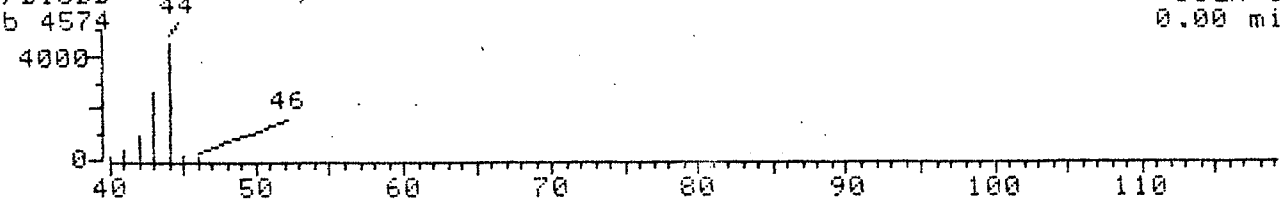


000461

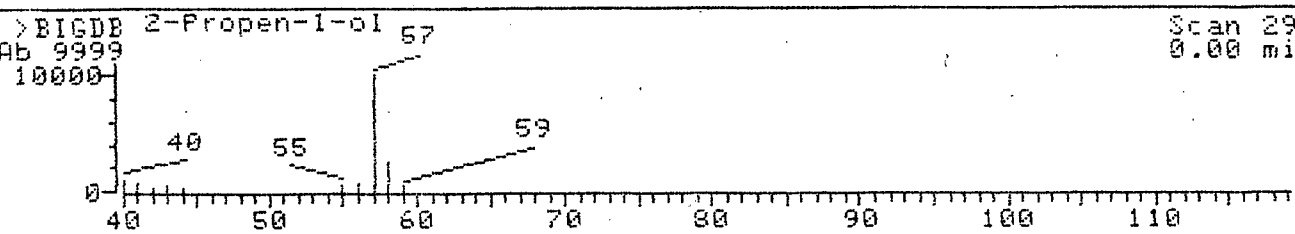
File >BIGDB 2-Propanamine Scan 563 0.00 min.
Bpk Ab 9999



File >BIGDB Acetaldehyde Scan 554 0.00 min.
Bpk Ab 4574



File >BIGDB 2-Propen-1-ol Scan 2906 0.00 min.
Bpk Ab 9999



>10% of IS

1. 2-Propanamine 59 C3H9N
2. Acetaldehyde 44 C2H4O
3. 2-Propen-1-ol 58 C3H6O
4. Methanamine, N,N-dimethyl- 59 C3H9N
5. Methanamine, N,N-dimethyl- 59 C3H9N

13

X

90

Sample file: >P3272 Spectrum #: 580
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*	75310	563	"BIGDB	25	47	0	0	74	49	7	18
2.	20*	75070	554	"BIGDB	20	44	1	0	151	54	5	14
3.	15*	107186	2906	"BIGDB	20	66	2	0	167	57	3	13
4.	11*	75503	3637	"BIGDB	22	23	1	0	38	64	2	14
5.	11*	75503	3637	"BIGDB	22	23	1	0	38	64	2	14

9/22/84 NJ DEP 008 009

Project No.
Book No. 1077

000462

>P3271 J6-0117-008 SW-3

HSL	Conc (ug/L)
Meth. Chlor.	2.3
Acetone	6

Surr	Conc (ug/L)	% Rec
tol d-8	50.71	101
BFB	46.57	93
1,2 dichlor	50.17	100

TIC none found.

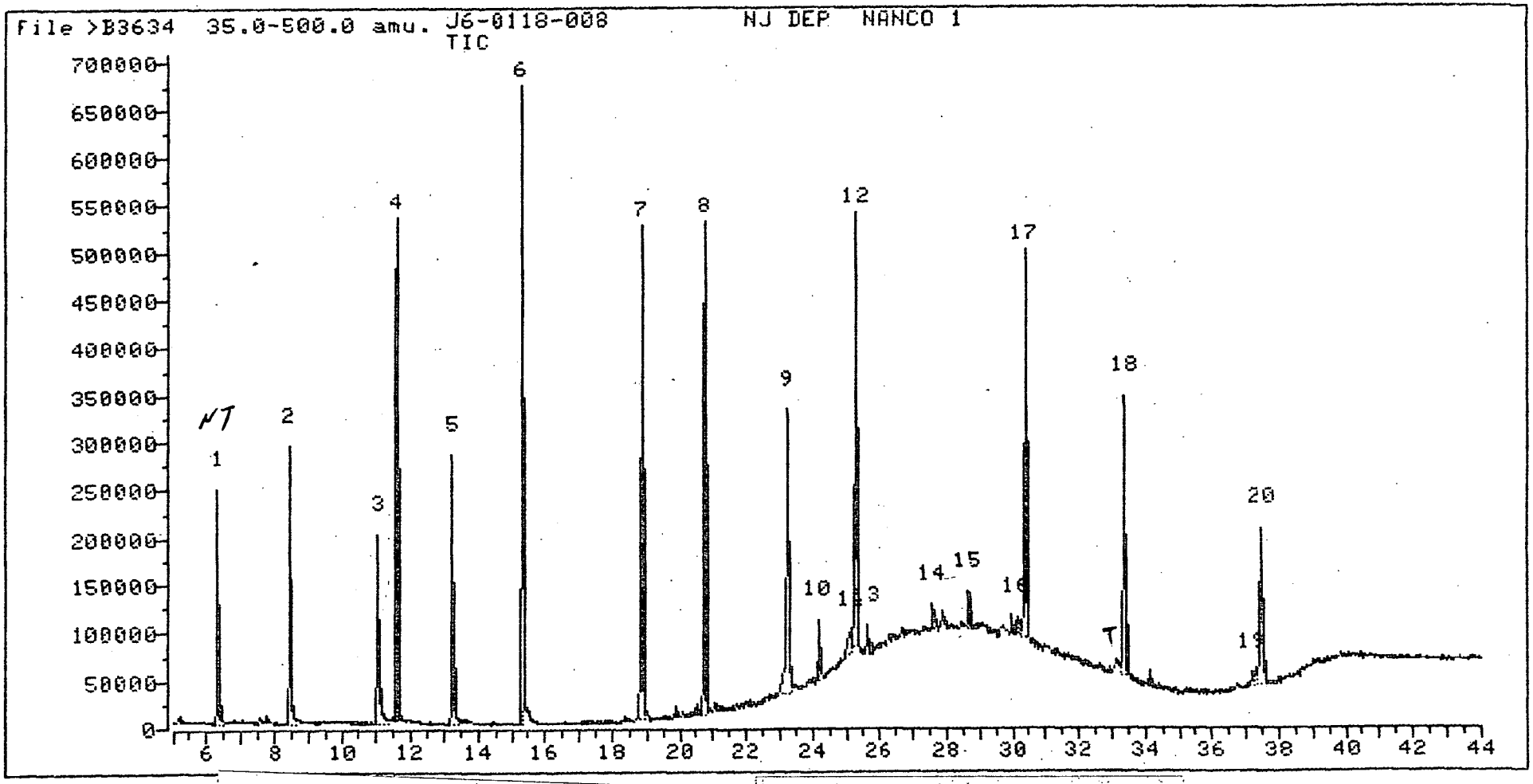
>P3272 J6-0118-008 SW-4

HSL	Conc (ug/L)
Meth. Chlor.	1.6

Surr	Conc (ug/L)	% Rec
tol d-8	51.22	102
BFB	48.39	97
1,2 dichlor	48.09	96

TIC none found

Inj. 10/9/86 02:29



PK #		
4	1,4-DICHLOROBENZENE d4	(IS)
6	NAPHTHALENE d8	(IS)
8	ACENAPHTHENE d10	(IS)
12	PHENANTHRENE d10	(IS)
18	CHRYSENE d12	(IS)
20	PERYLENE d12	(IS)

PK #		
3	PHENOL d6	(SURR)
2	2-FLUOROPHENOL	(SURR)
5	NITROBENZENE d5	(SURR)
7	2-FLUOROBIPHENYL	(SURR)
9	2,4,6-TRIBROMOPHENOL	(SURR)
17	TERPHENYL d14	(SURR)

000463

QUANT REPORT

Operator ID: JAHANI
Output File: ^B3634::AQ
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1

Quant Rev: 4
Quant Time: 861009 10:17
Injected at: 861009 02:29
Dilution Factor: 2.22

BTL#16

ID File: IDEPA1:PK:NA
Title: IDEPA BNA
Last Calibration: 861009 09:59

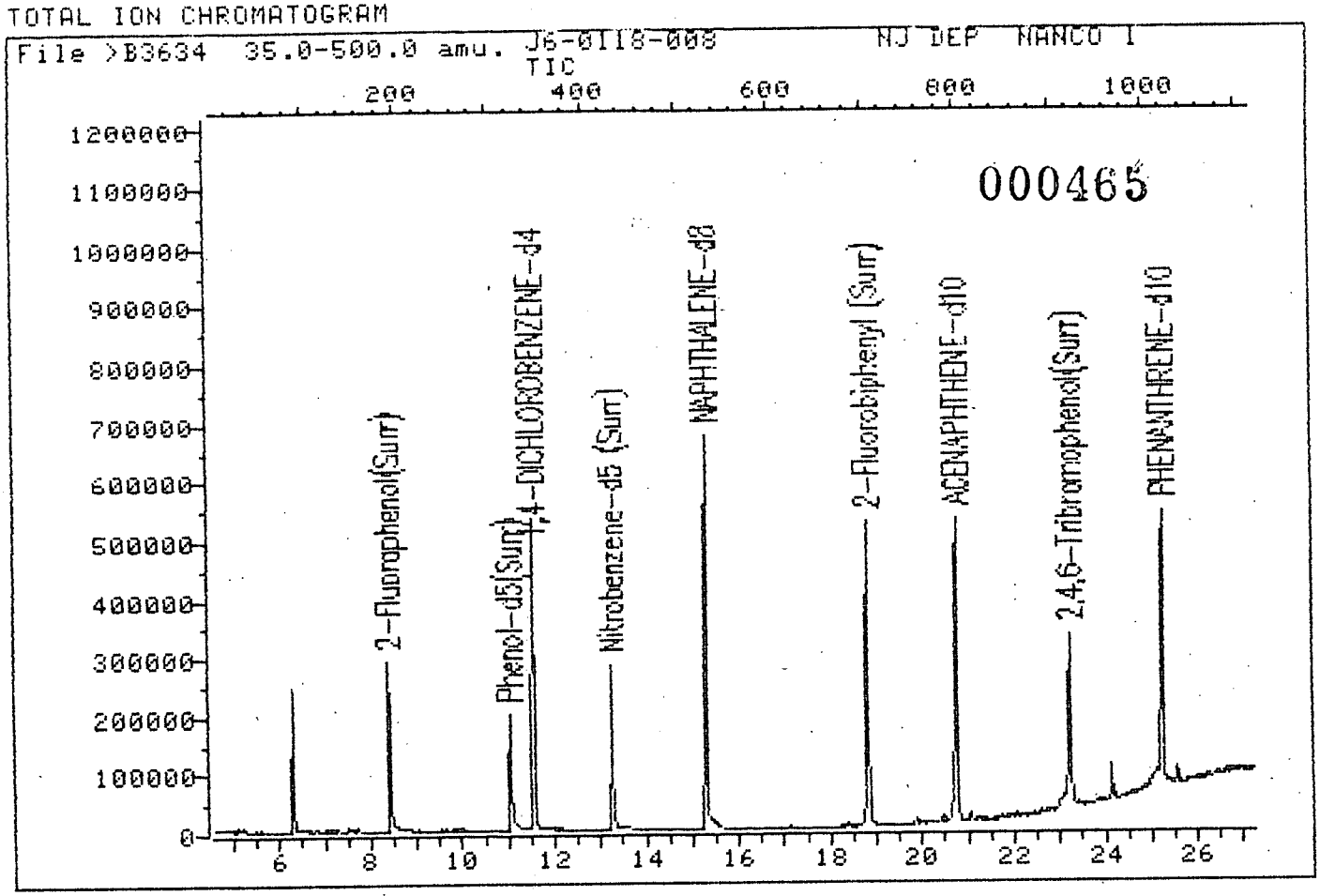
000464

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.55	344	235283	40.00	UG	94
14)	*NAPHTHALENE-d8	15.31	529	830186	40.00	UG	100
28)	*ACENAPHTHENE-d10	20.77	798	408519	40.00	UG	93
47)	*PHENANTHRENE-d10	25.26	1018	653530	40.00	UG	94
57)	*CHRYSENE-d12	33.37	1414	357209	40.00	UG	100
60)	3,3'-Dichlorobenzidine	32.96	1394	2666	3.35	UG	80
64)	*PERYLENE-d12	37.46	1614	177164	40.00	UG	100
72)	* 1,4 Dichlorobenzene(IS)	11.55	344	235283	40.00	UG	94
73)	Phenol-d5(Surr)	11.05	319	309435	65.99	UG	74
74)	2-Fluorophenol(Surr)	8.41	189	245809	64.22	UG	69
75)	*Naphthalene-d8 (IS)	15.31	529	830186	40.00	UG	99
76)	Nitrobenzene-d5 (Surr)	13.26	428	244452	63.86	UG	85
77)	*Acenaphthene-d10 (IS)	20.77	798	408519	40.00	UG	93
78)	2-Fluorobiphenyl (Surr)	18.82	702	495752	72.60	UG	99
79)	2,4,6-Tribromophenol(Surr)	23.24	919	121878	165.37	UG	93
80)	*Chrysene-d12 (IS)	33.37	1414	356079	40.00	UG	100
81)	Terphenyl-d14 (Surr)	30.34	1266	~~437172~~ 341156	~~167.60~~ 130.79	UG	98

50

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1

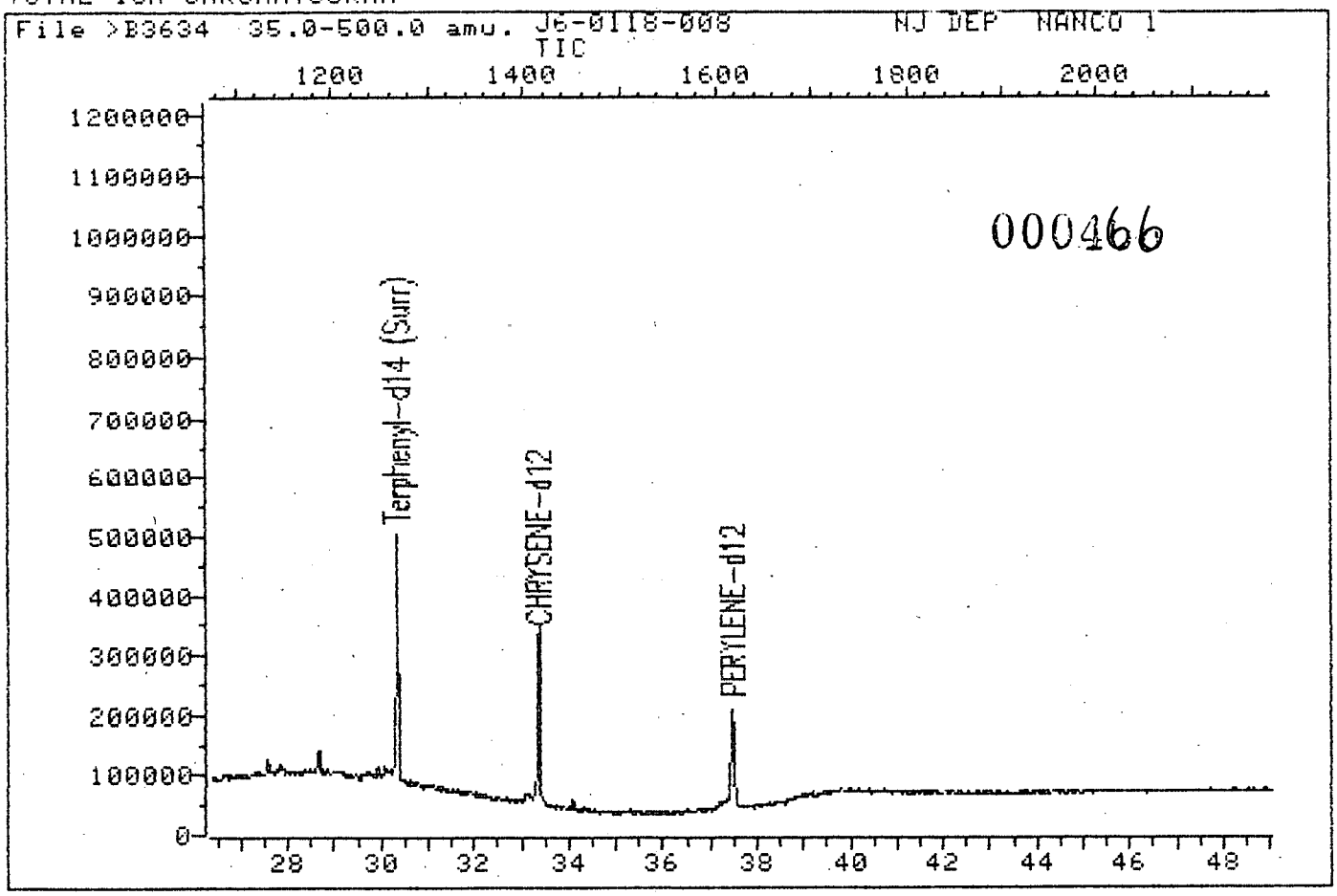
BTL#16

Id File: IDEPA1:PK:NA
Title: IDEPA BNA
Last Calibration: 861009 09:59

Operator ID: JAHANI
Quant Time: 861009 10:17
Injected at: 861009 02:29

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



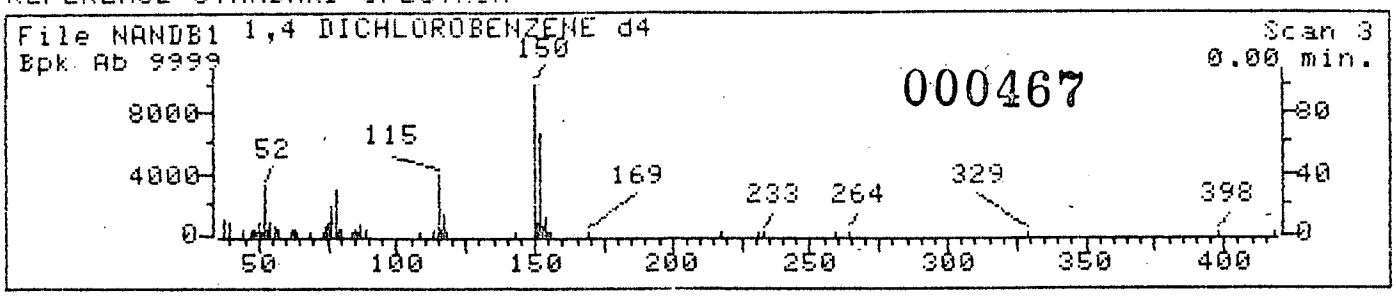
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16

Id File: IDEPA1:PK:NA
Title: IDEPA BNA
Last Calibration: 861009 09:59

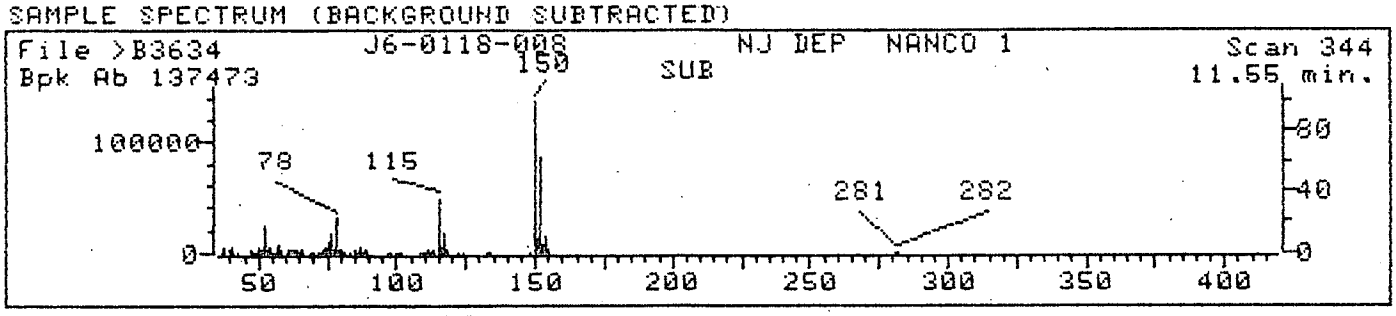
Operator ID: JAHANI
Quant Time: 861009 10:17
Injected at: 861009 02:29

TIC page 2 of 2

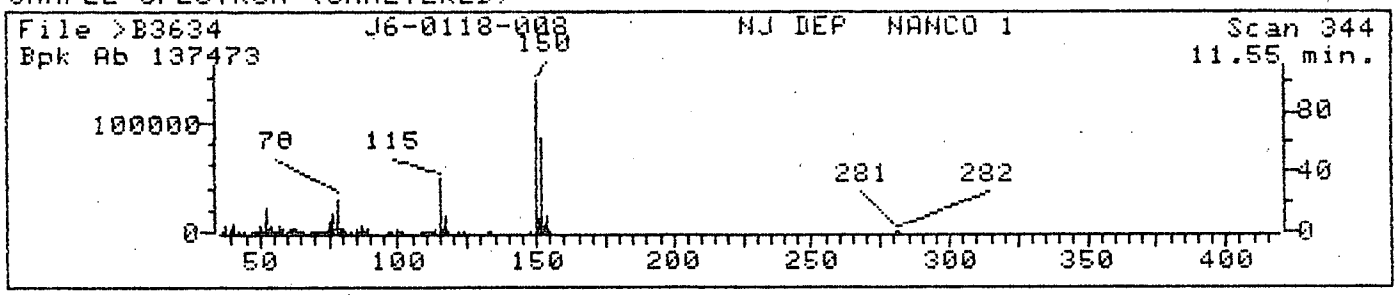
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



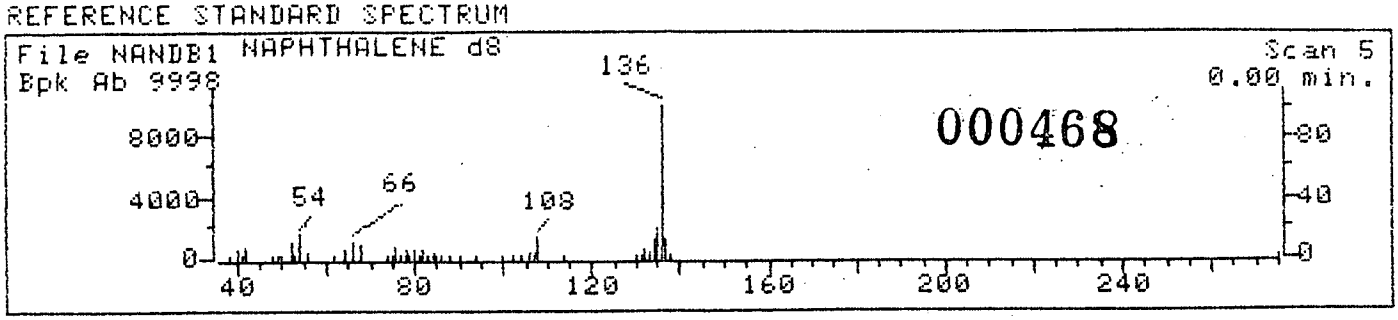
SAMPLE SPECTRUM (UNALTERED)



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 1 (ISTD)
Compound Name: 1,4-DICHLOROBENZENE-d4
Scan Number: 344
Retention Time: 11.55 min.
Area: 235283
Concentration: 40.00 UG
q-value: 94

REFERENCE STANDARD SPECTRUM



000468

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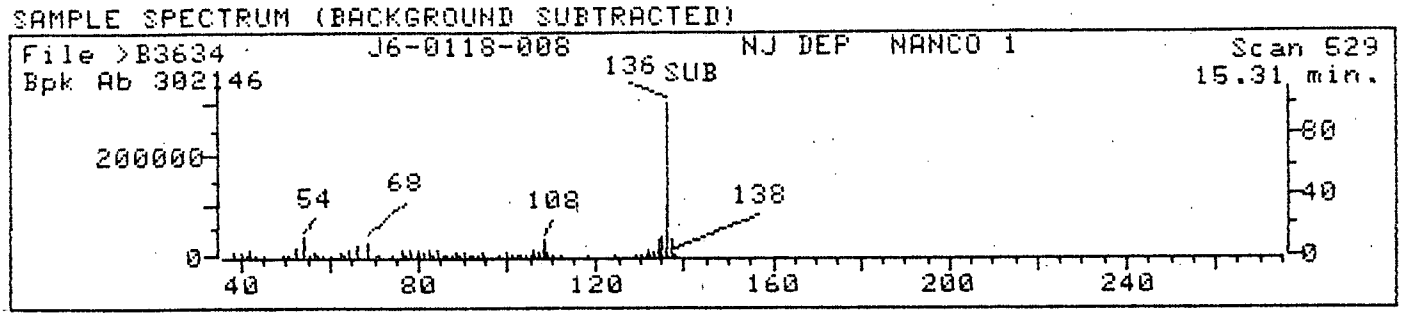
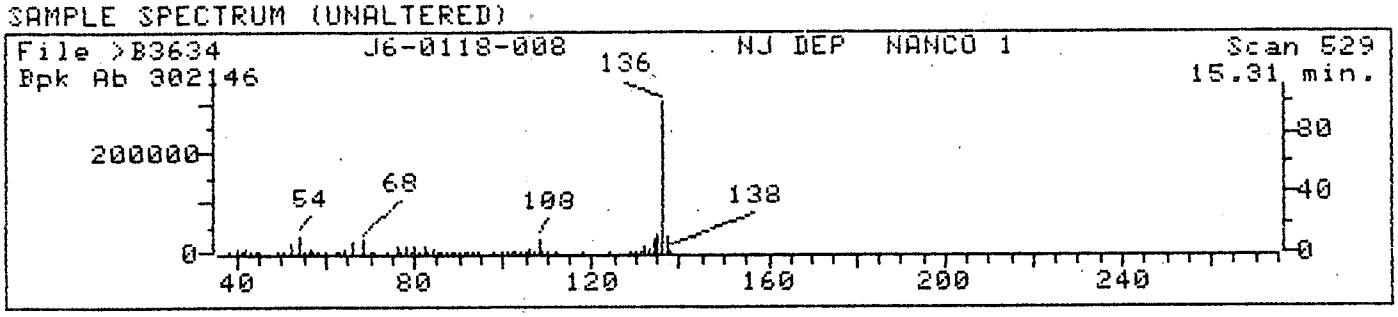


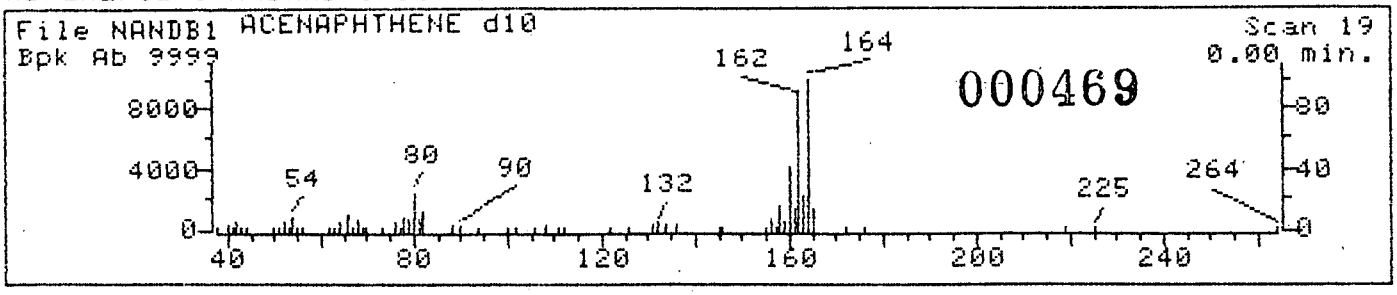
SAMPLE SPECTRUM (UNALTERED)



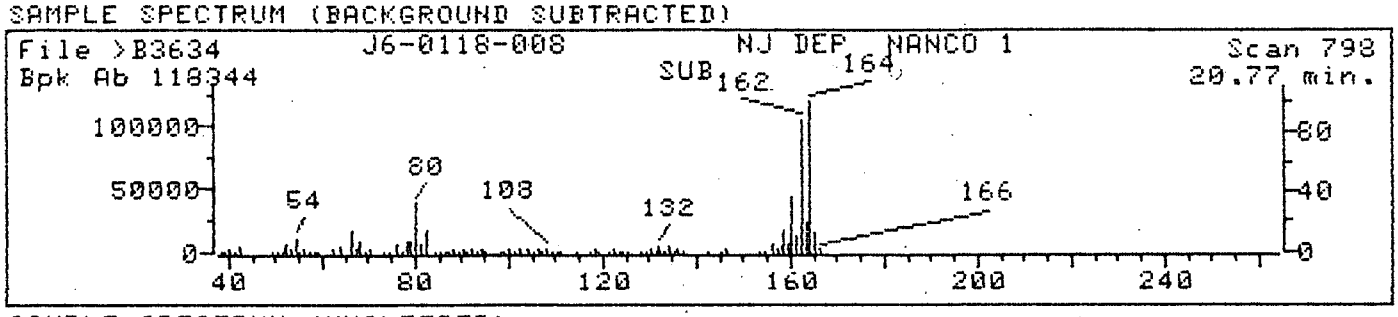
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 14 (ISTD)
Compound Name: NAPHTHALENE-d8
Scan Number: 529
Retention Time: 15.31 min.
Area: 830186
Concentration: 40.00 UG
q-value: 100

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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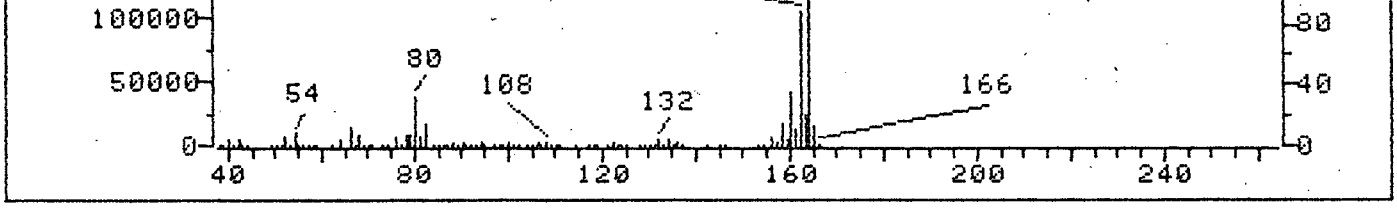
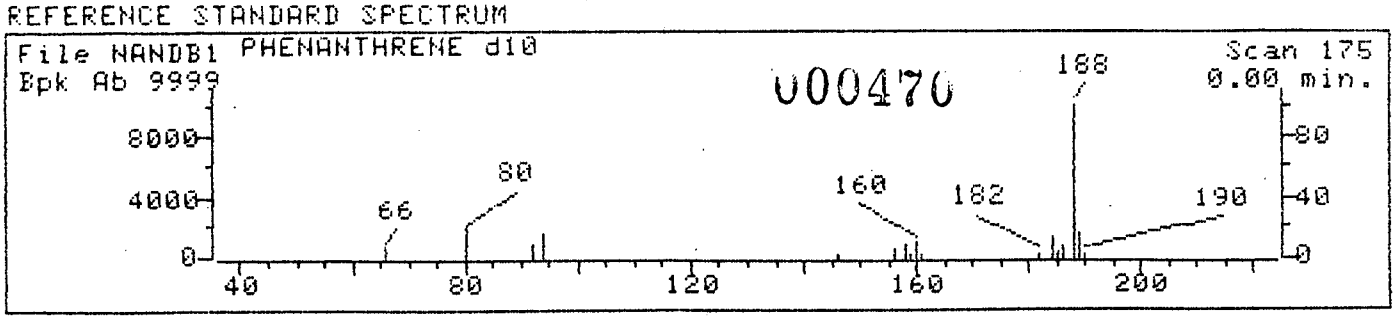


Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 28 (ISTD)
Compound Name: ACENAPHTHENE-d10
Scan Number: 798
Retention Time: 20.77 min.
Area: 408519
Concentration: 40.00 UG
q-value: 93

REFERENCE STANDARD SPECTRUM



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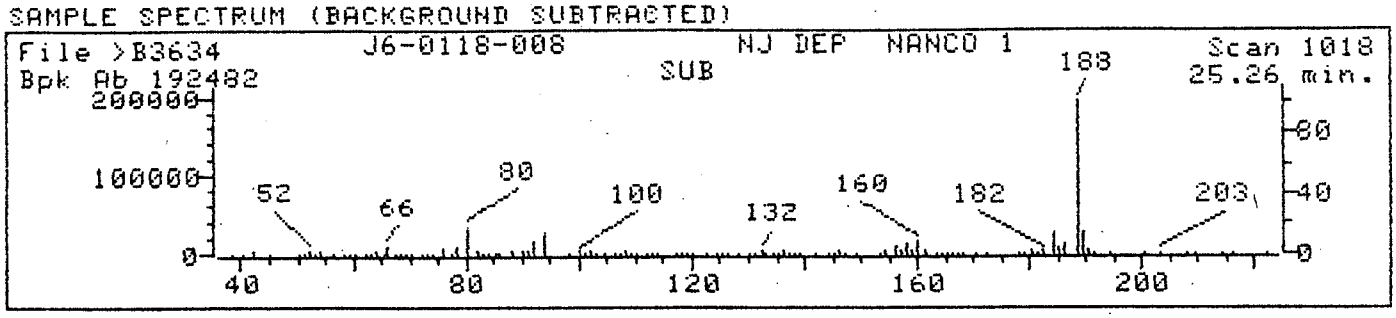
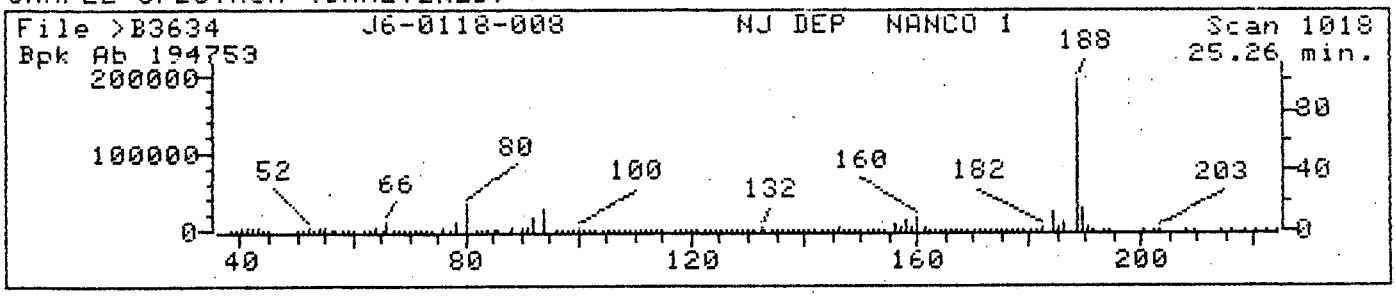


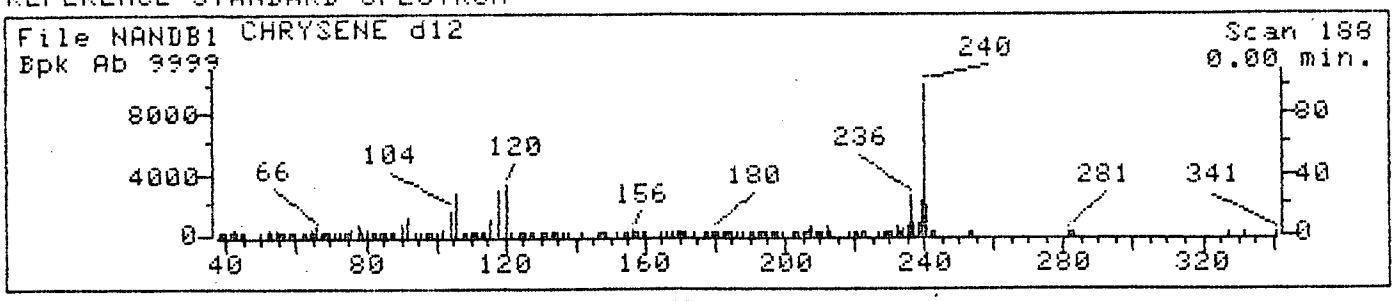
SAMPLE SPECTRUM (UNALTERED)



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 47 (ISTD)
Compound Name: PHENANTHRENE-d10
Scan Number: 1018
Retention Time: 25.26 min.
Area: 653530
Concentration: 40.00 UG
q-value: 94

REFERENCE STANDARD SPECTRUM



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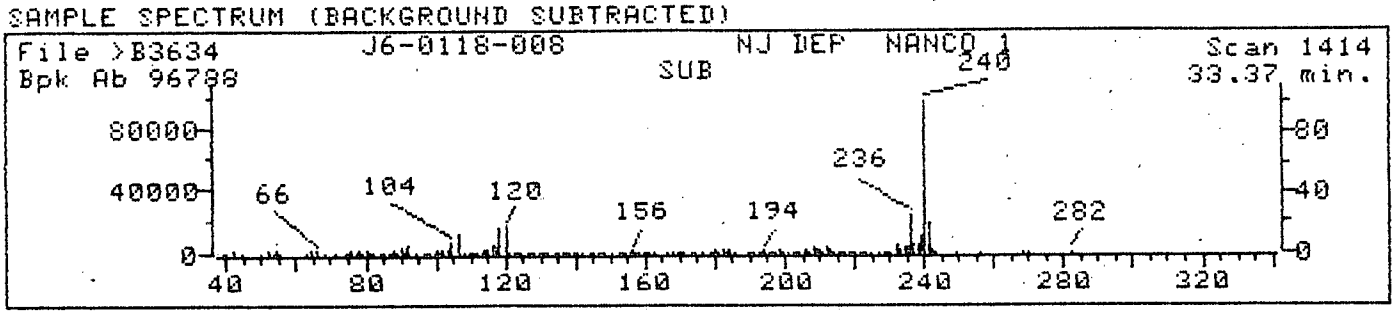

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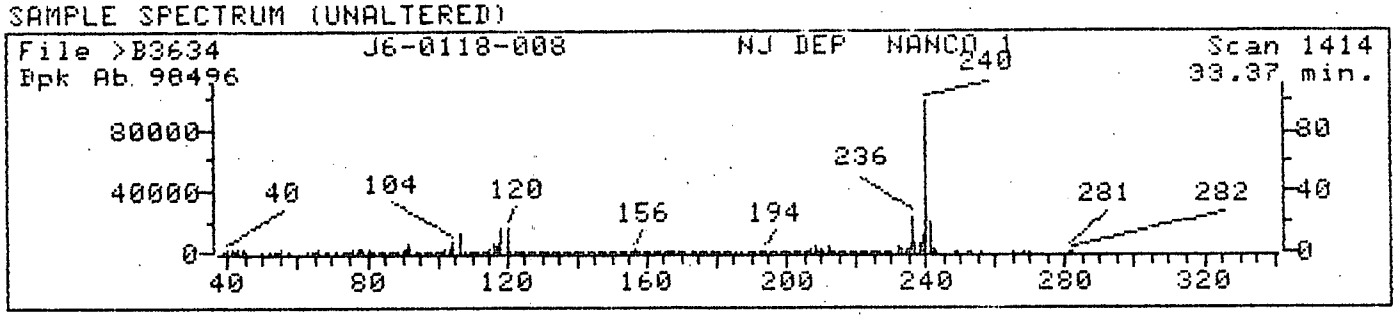
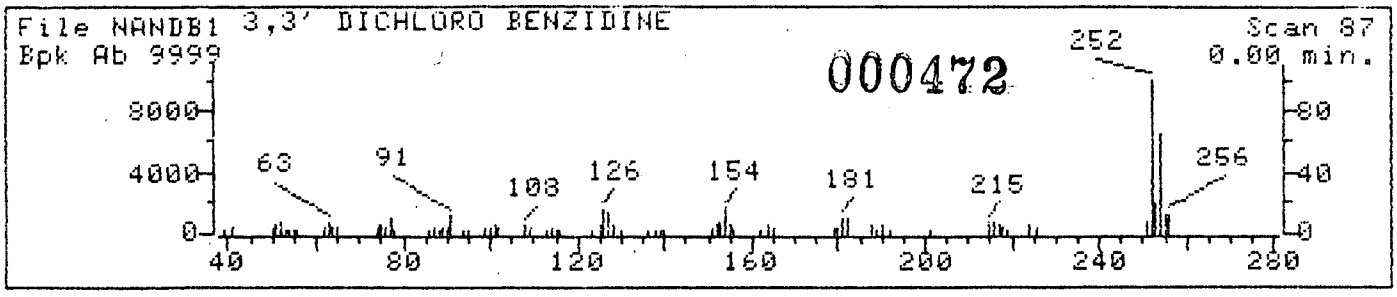


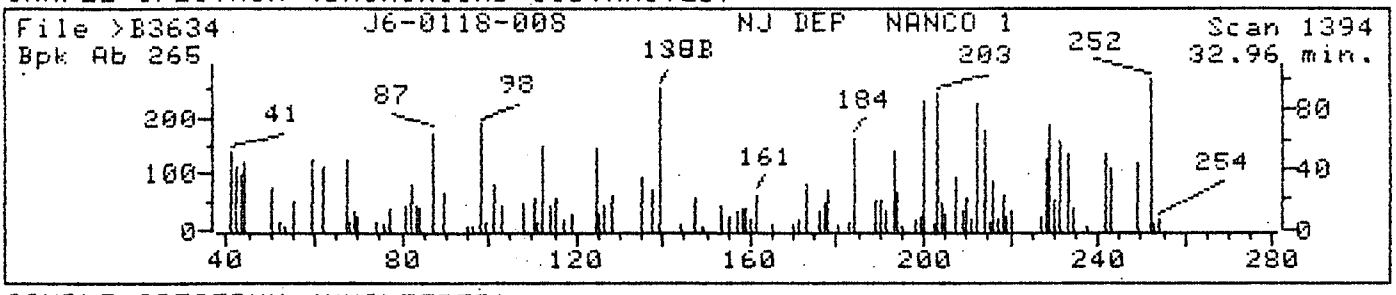
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 57 (ISTD)
Compound Name: CHRYSENE-d12
Scan Number: 1414
Retention Time: 33.37 min.
Area: 357209
Concentration: 40.00 UG
q-value: 100

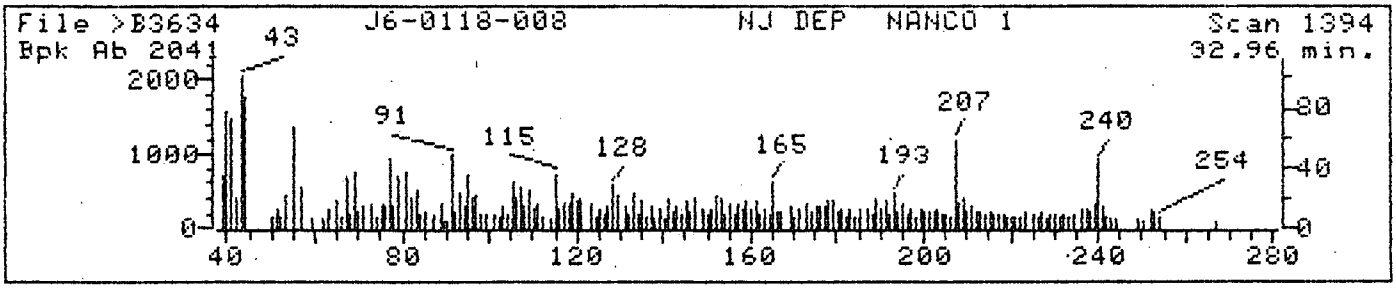
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

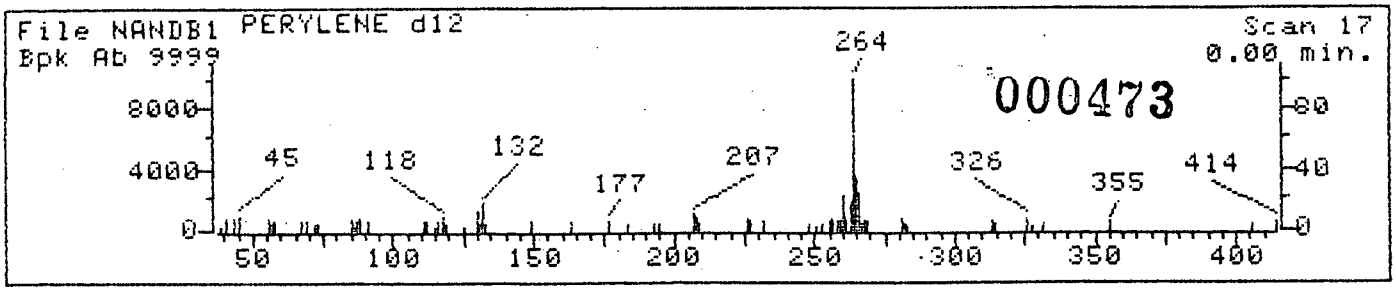


Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

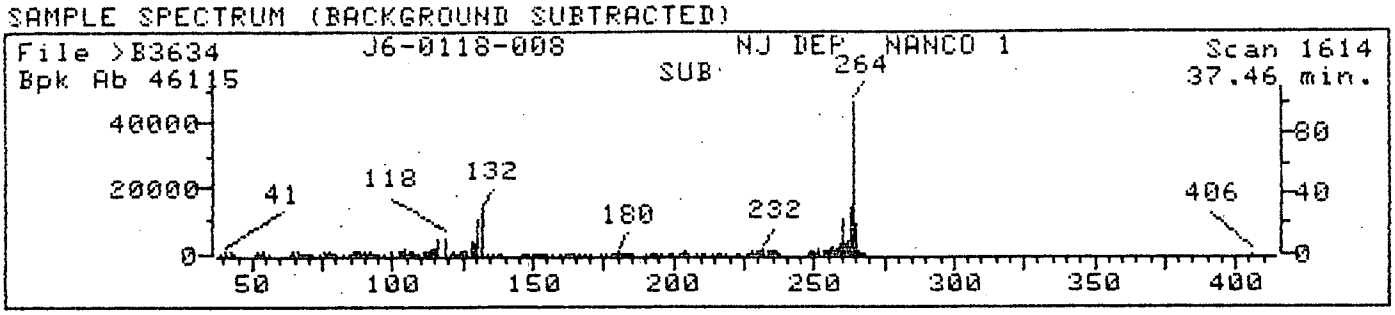
Compound No: 60
Compound Name: 3,3'-Dichlorobenzidine
Scan Number: 1394
Retention Time: 32.96 min.
Area: 2666
Concentration: 3.35 UG
q-value: 80

✓ 56

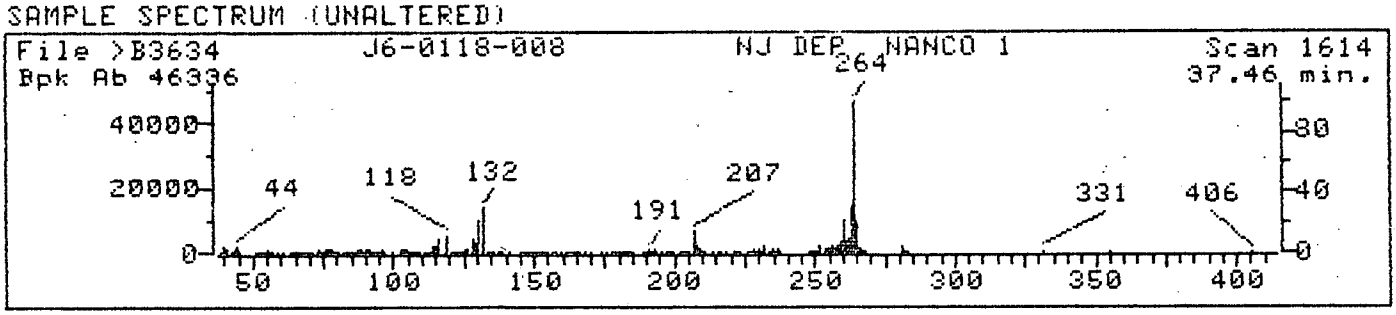
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



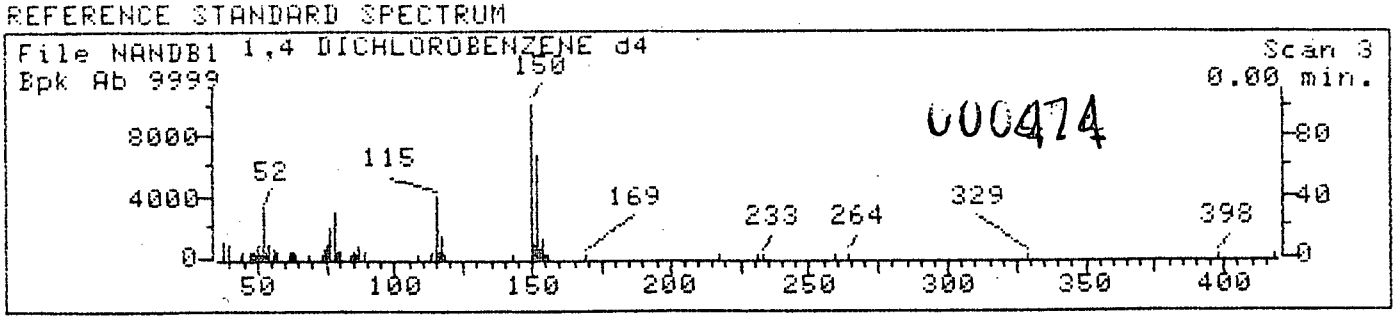
SAMPLE SPECTRUM (UNALTERED)



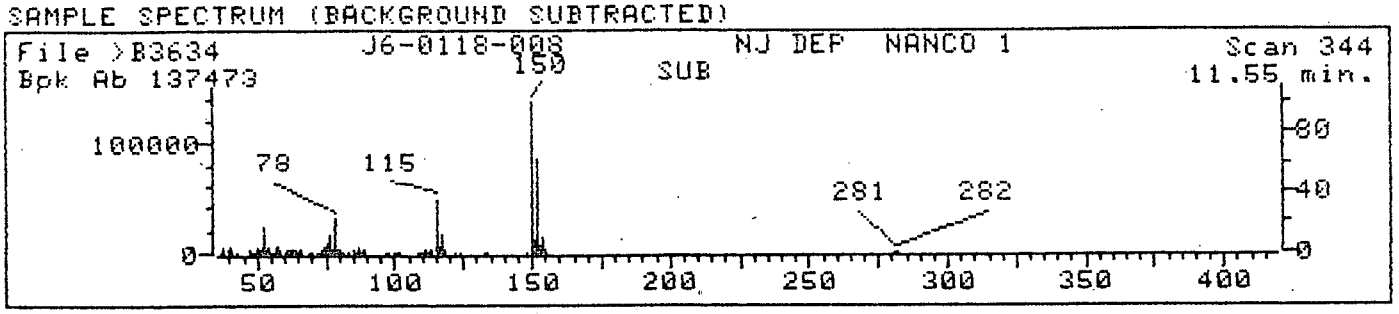
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 64 (ISTD)
Compound Name: PERYLENE-d12
Scan Number: 1614
Retention Time: 37.46 min.
Area: 177164
Concentration: 40.00 UG
q-value: 100

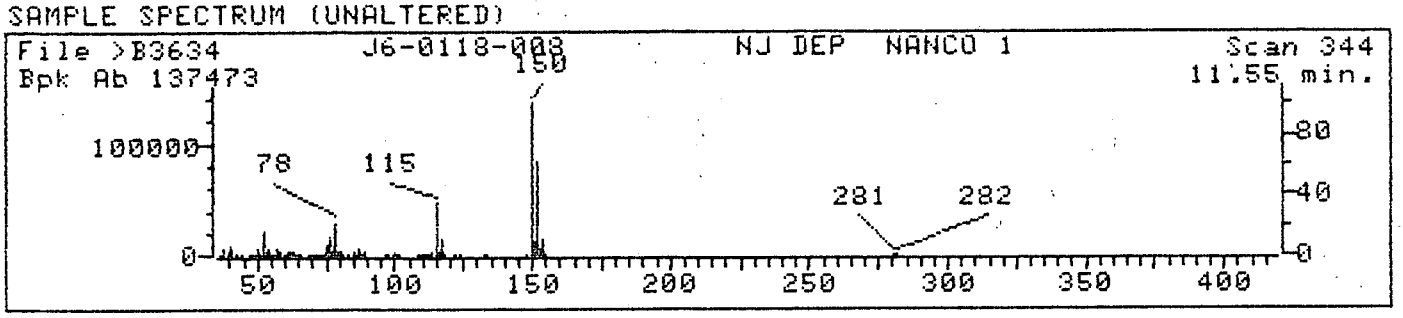
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



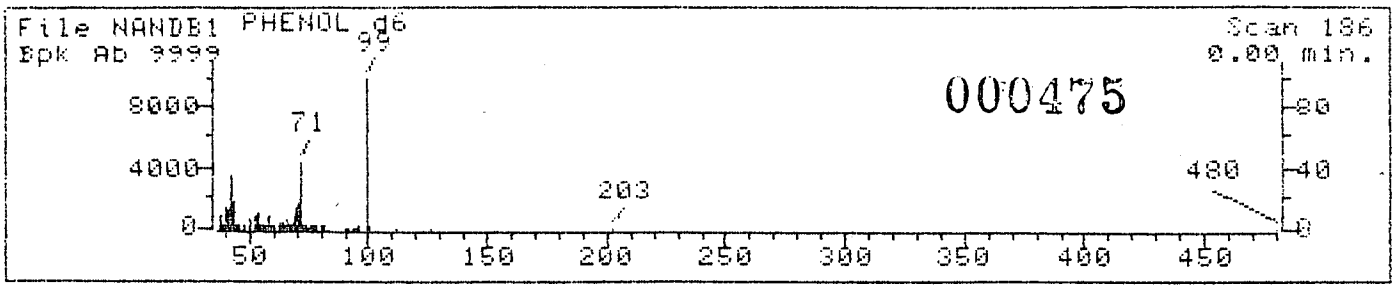
SAMPLE SPECTRUM (UNALTERED)



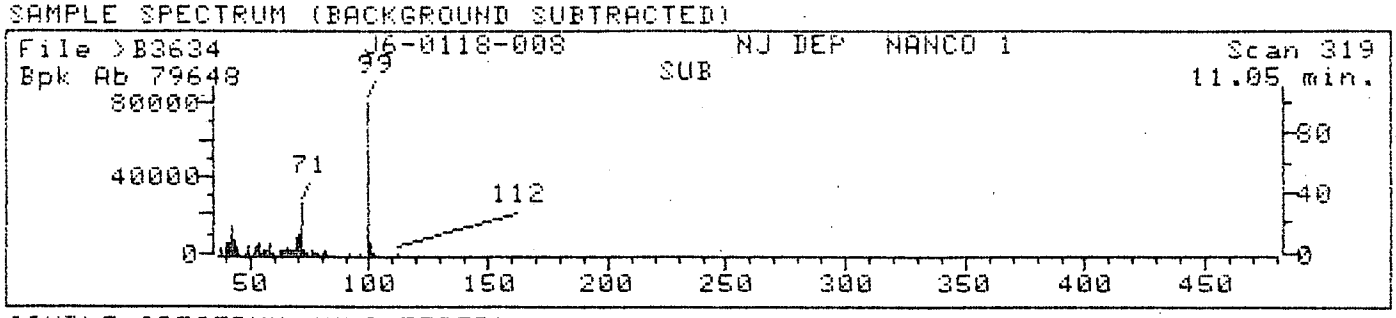
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 72 (ISTD)
Compound Name: 1,4 Dichlorobenzene(IS)
Scan Number: 344
Retention Time: 11.55 min.
Area: 235283
Concentration: 40.00 UG
q-value: 94

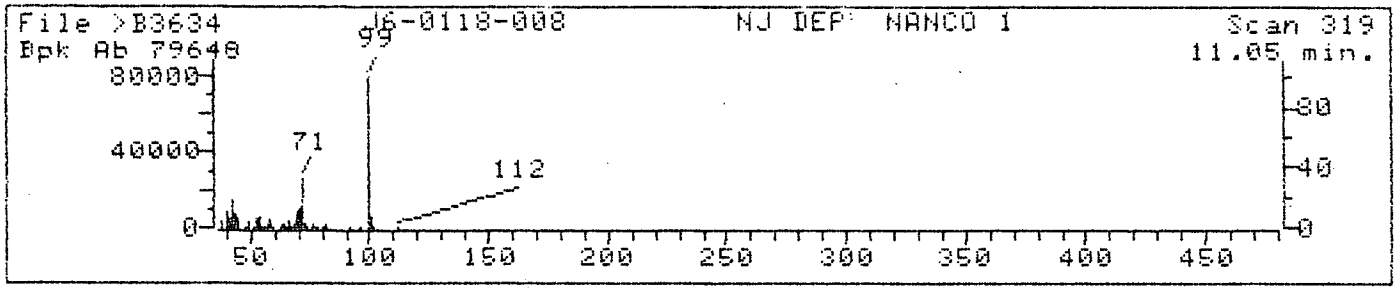
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



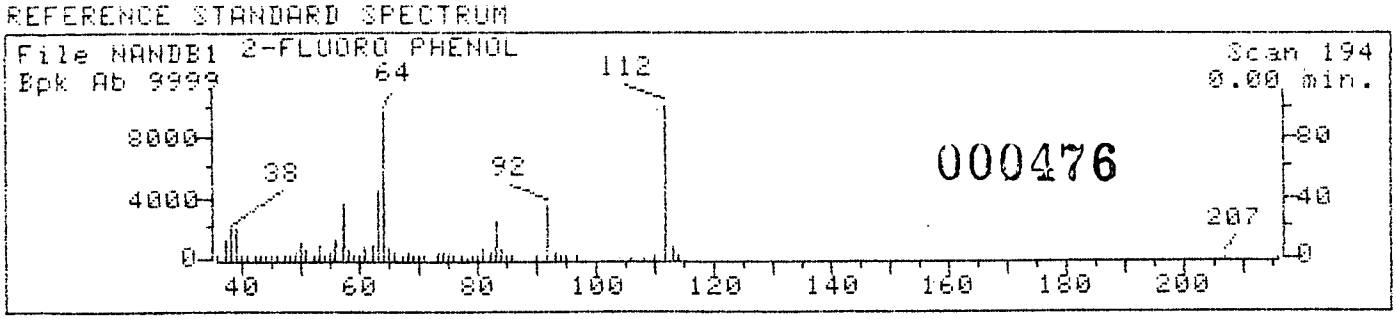
SAMPLE SPECTRUM (UNALTERED)



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 73
Compound Name: Phenol-d5(Surr)
Scan Number: 319
Retention Time: 11.05 min.
Area: 309435
Concentration: 65.99 UG
q-value: 74

REFERENCE STANDARD SPECTRUM



000476

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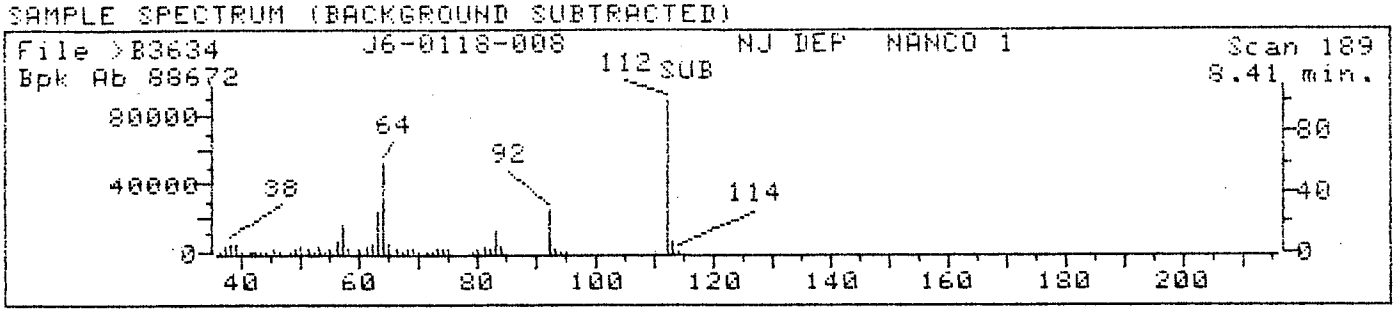
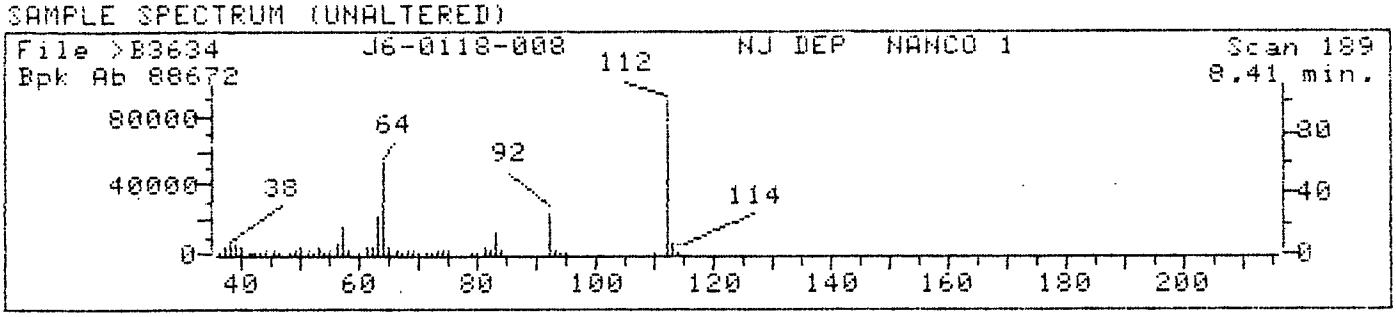


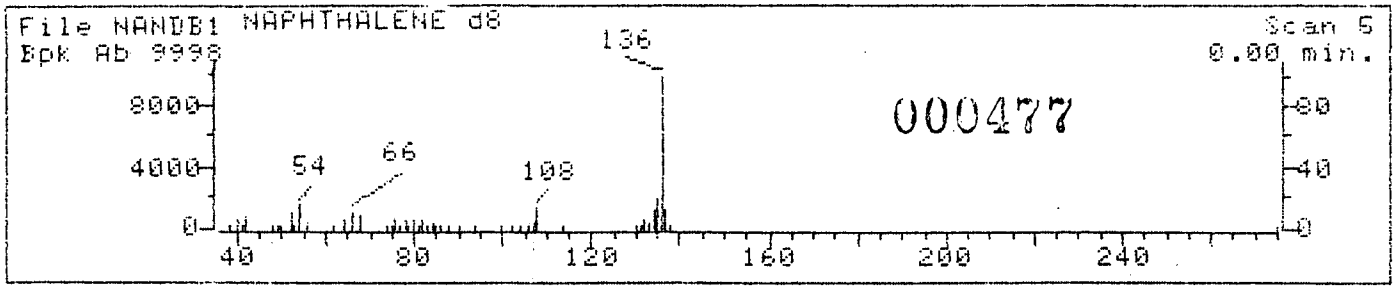
SAMPLE SPECTRUM (UNALTERED)



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 74
Compound Name: 2-Fluorophenol(Surr)
Scan Number: 189
Retention Time: 8.41 min.
Area: 245809
Concentration: 64.22 UG
q-value: 69

REFERENCE STANDARD SPECTRUM



000477

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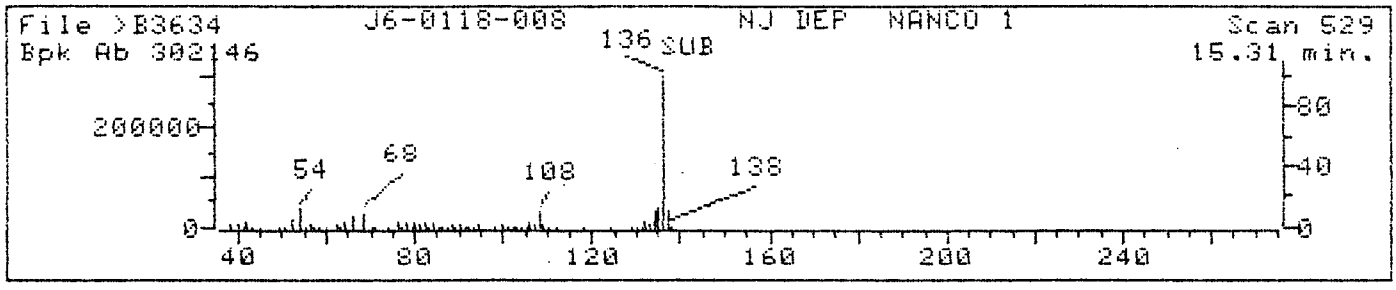
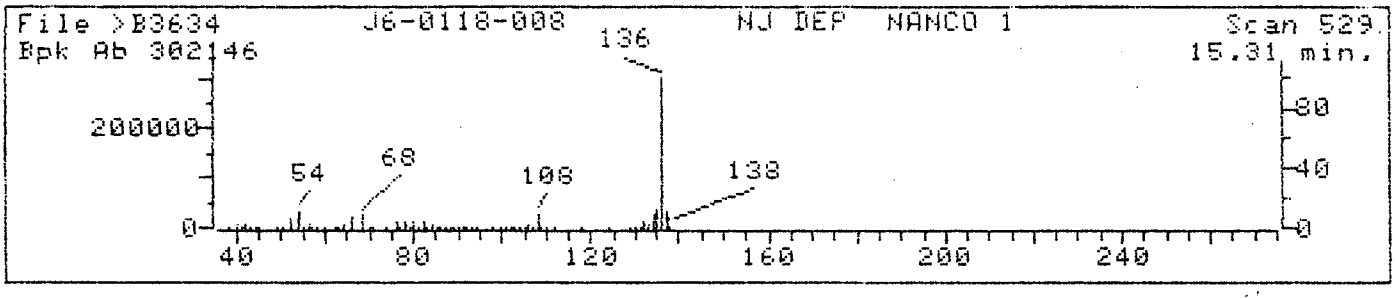


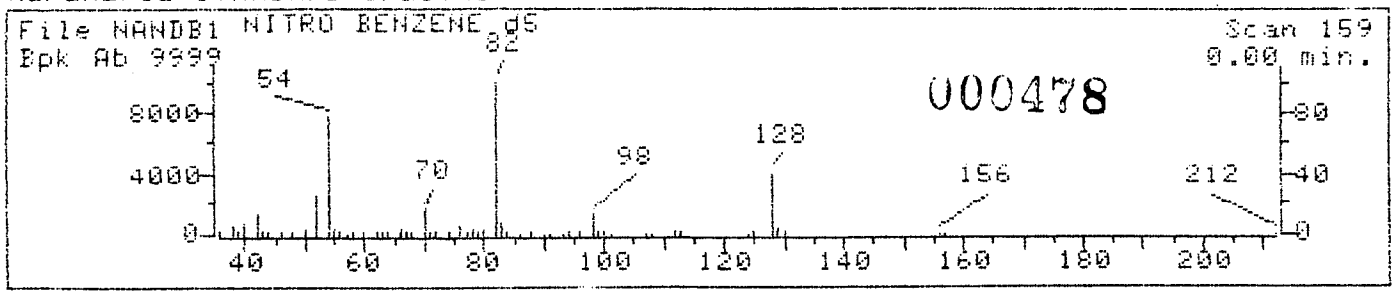
SAMPLE SPECTRUM (UNALTERED)



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 75 (ISTD)
Compound Name: Naphthalene-d8 (IS)
Scan Number: 529
Retention Time: 15.31 min.
Area: 830186
Concentration: 40.00 UG
q-value: 99

REFERENCE STANDARD SPECTRUM



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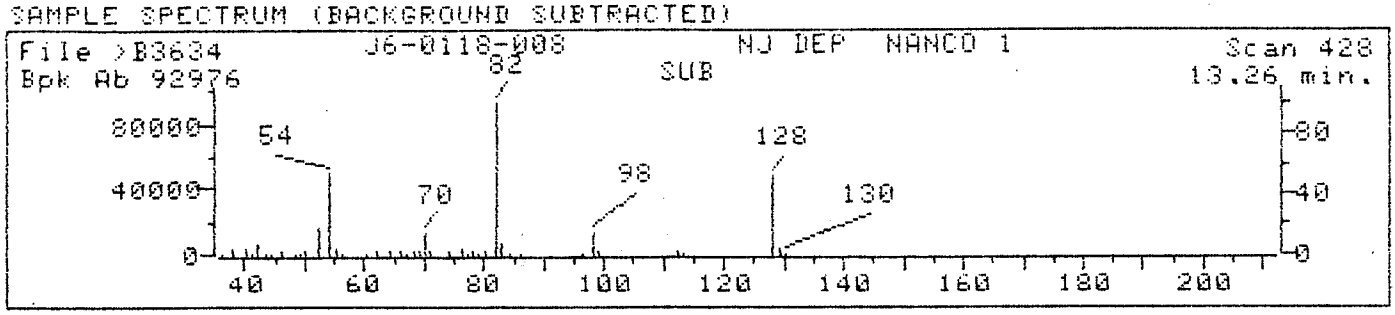
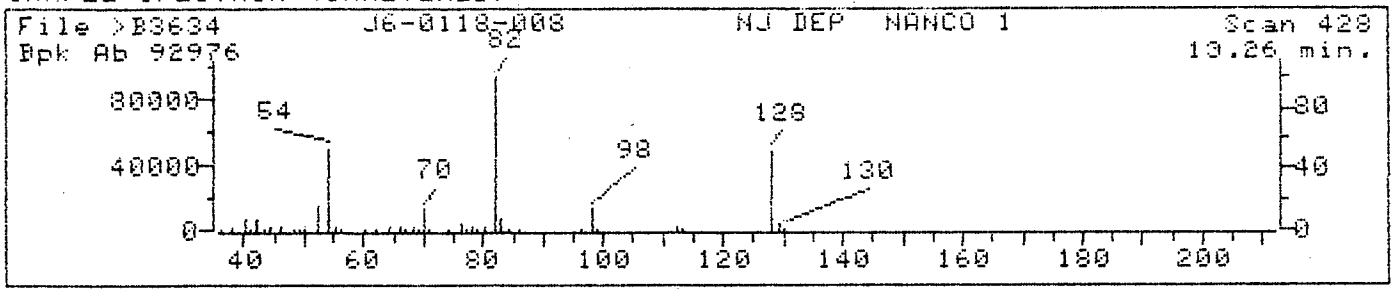


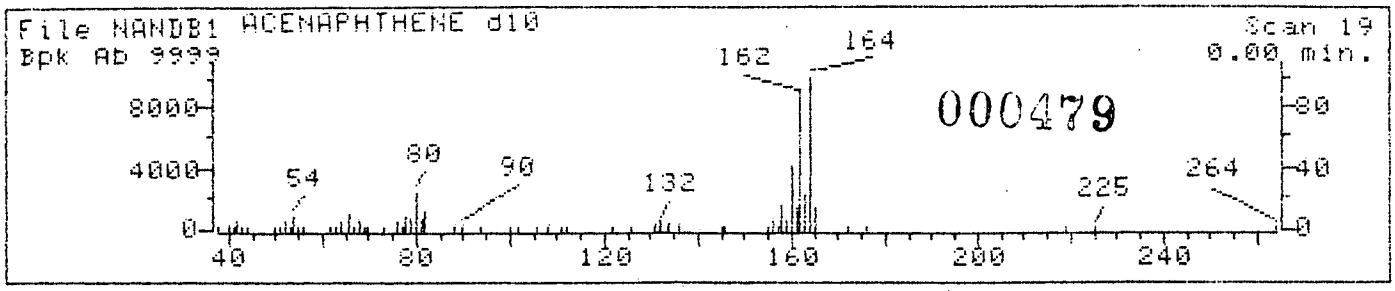
SAMPLE SPECTRUM (UNALTERED)



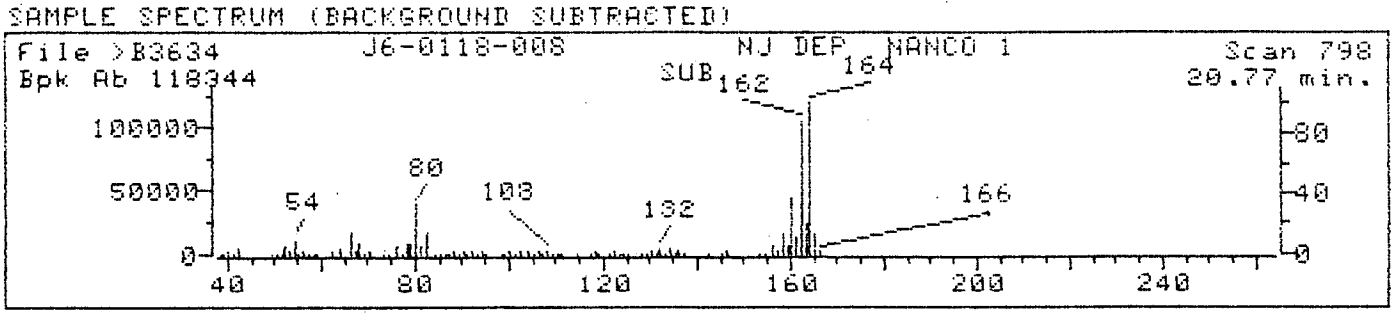
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 76
Compound Name: Nitrobenzene-d5 (Surr)
Scan Number: 428
Retention Time: 13.26 min.
Area: 244452
Concentration: 63.86 UG
q-value: 85

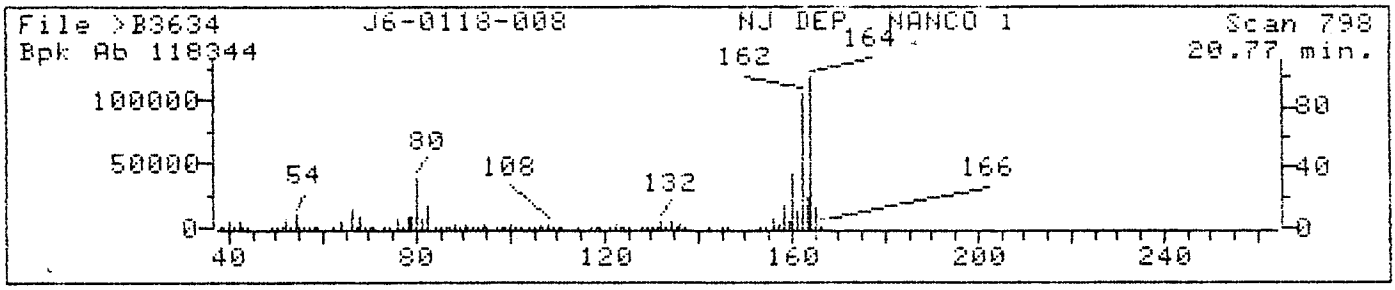
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



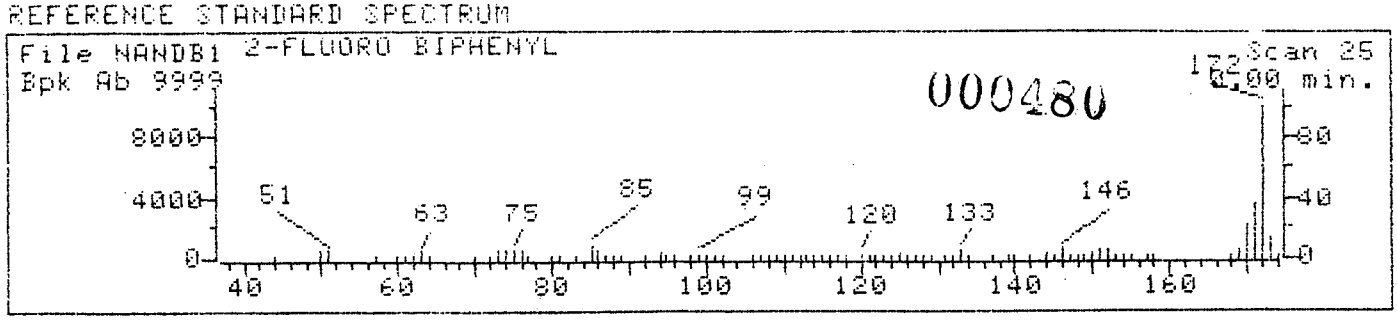
SAMPLE SPECTRUM (UNALTERED)



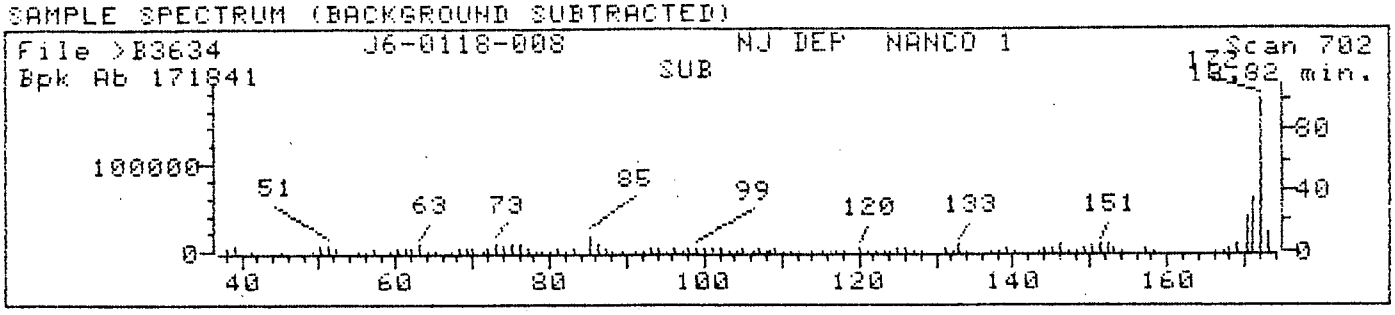
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 77 (ISTD)
Compound Name: Acenaphthene-d10 (IS)
Scan Number: 798
Retention Time: 20.77 min.
Area: 408519
Concentration: 40.00 UG
q-value: 93

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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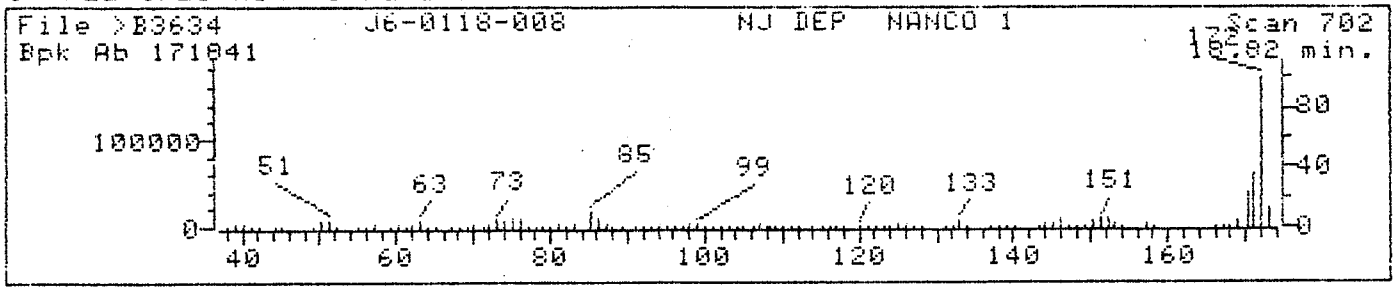
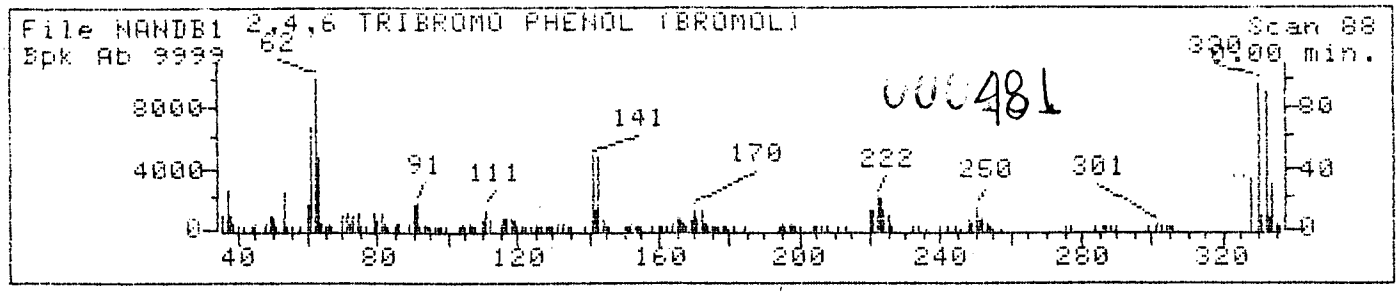


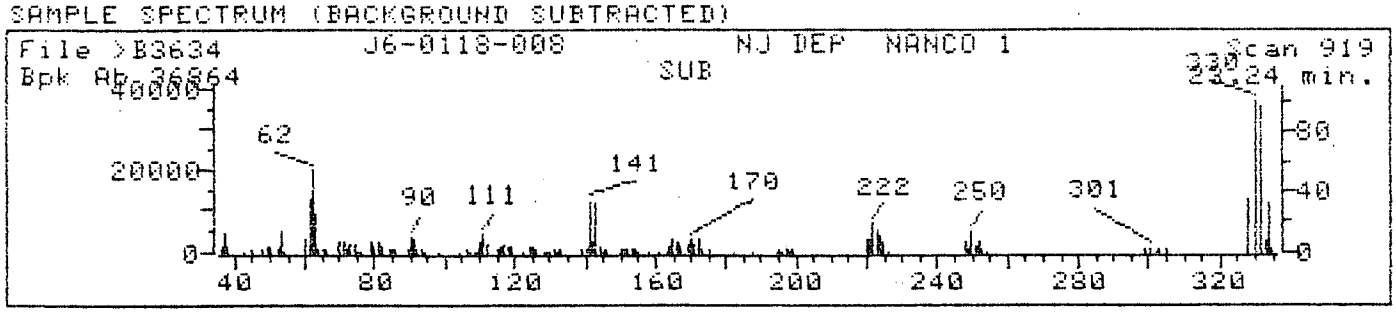
Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 78
Compound Name: 2-Fluorobiphenyl (Surr)
Scan Number: 702
Retention Time: 18.82 min.
Area: 495752
Concentration: 72.60 UG
q-value: 99

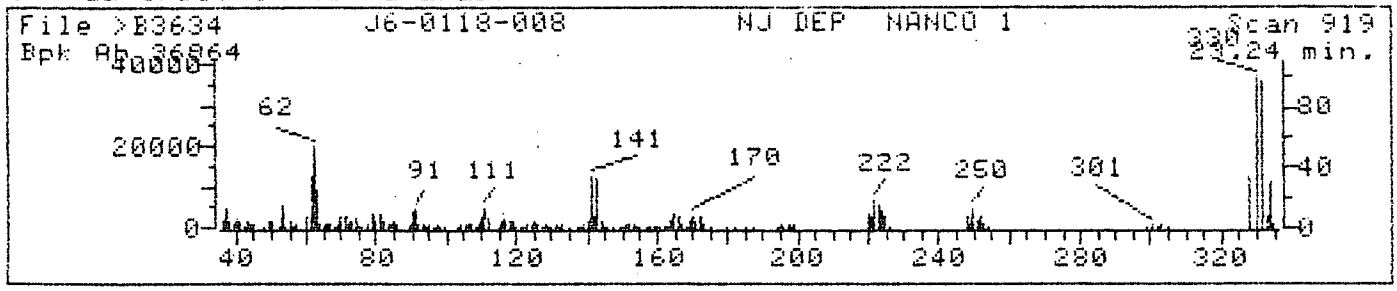
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



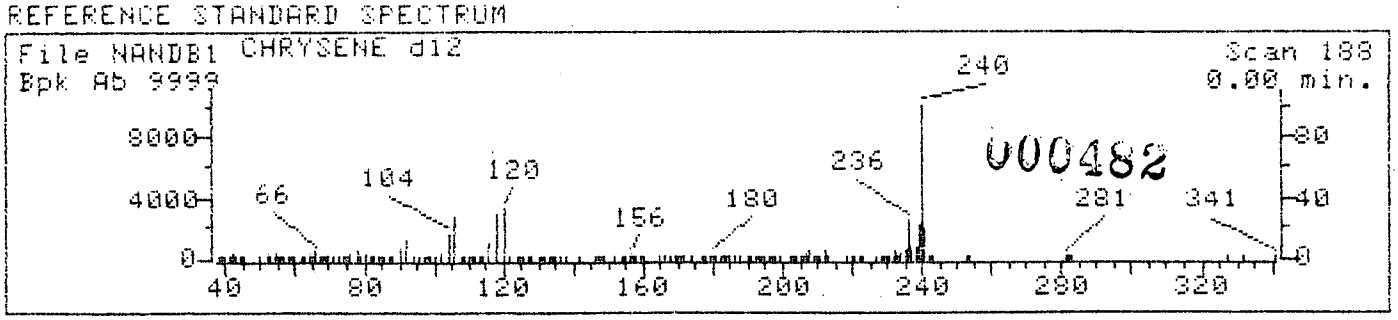
SAMPLE SPECTRUM (UNALTERED)



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

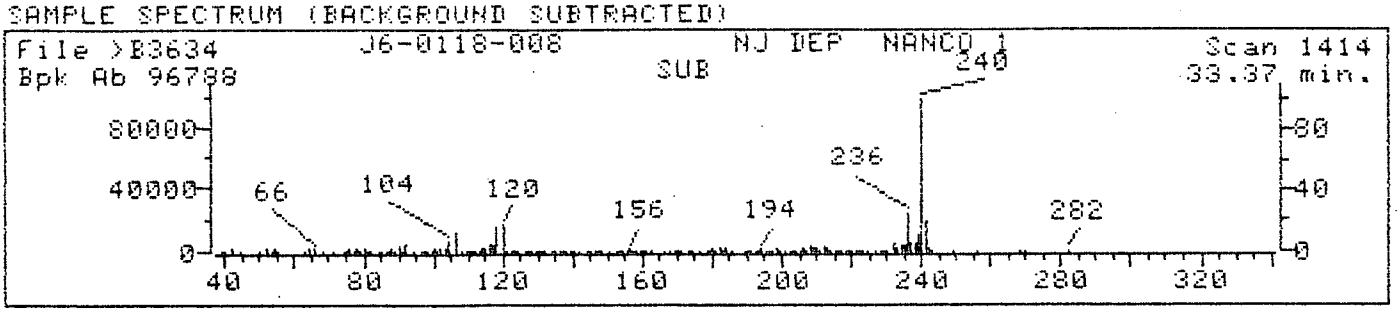
Compound No: 79
Compound Name: 2,4,6-Tribromophenol(Surr)
Scan Number: 919
Retention Time: 23.24 min.
Area: 121878
Concentration: 165.37 UG
q-value: 93

REFERENCE STANDARD SPECTRUM



000482

SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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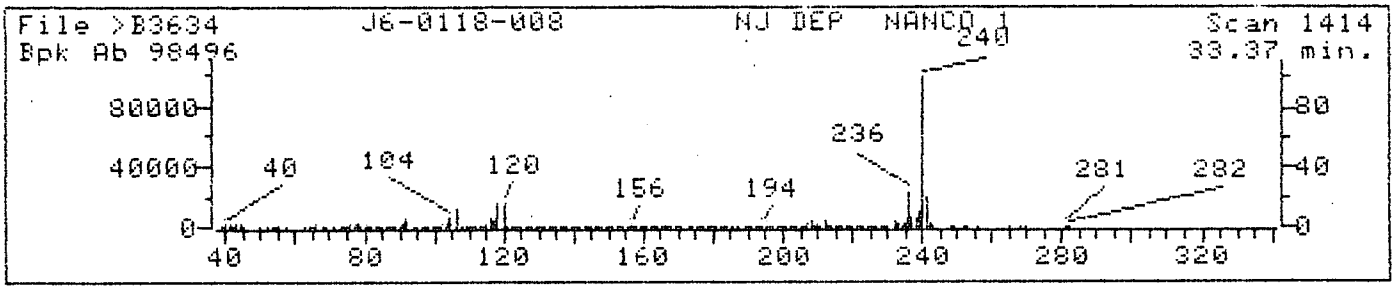
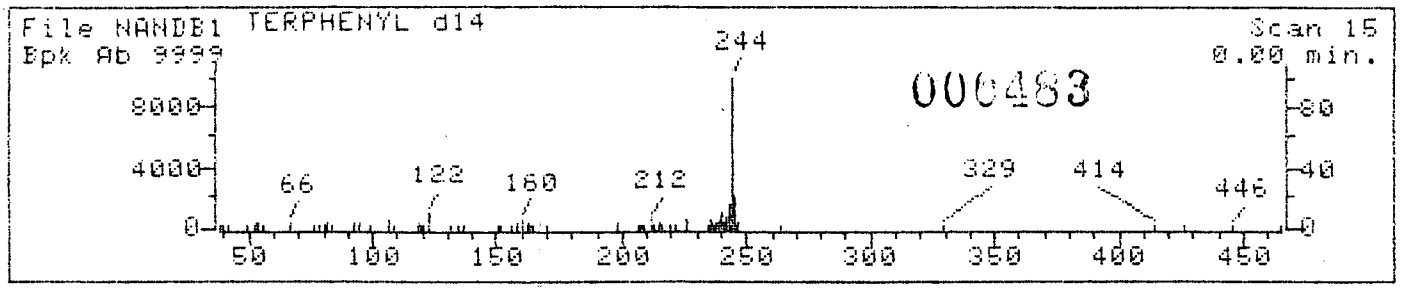


Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 80 (ISTD)
Compound Name: Chrysene-d12 (IS)
Scan Number: 1414
Retention Time: 33.37 min.
Area: 356079
Concentration: 40.00 UG
q-value: 100

REFERENCE STANDARD SPECTRUM



000483

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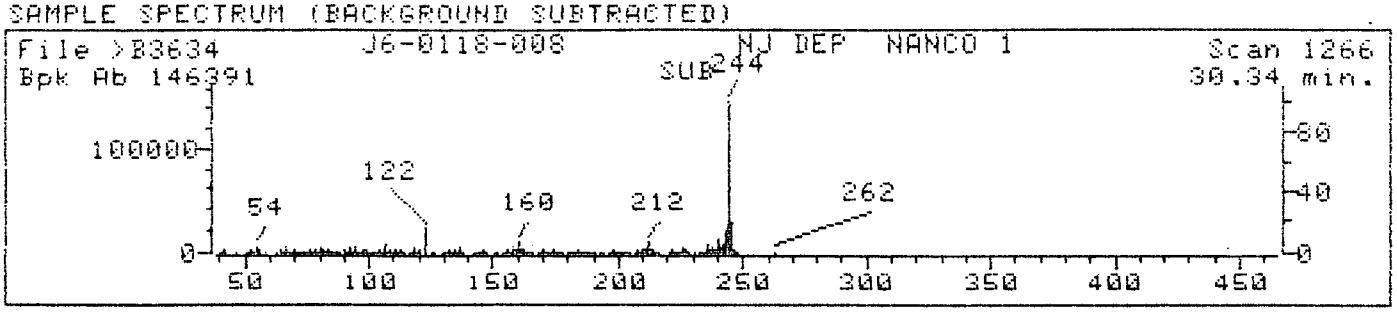
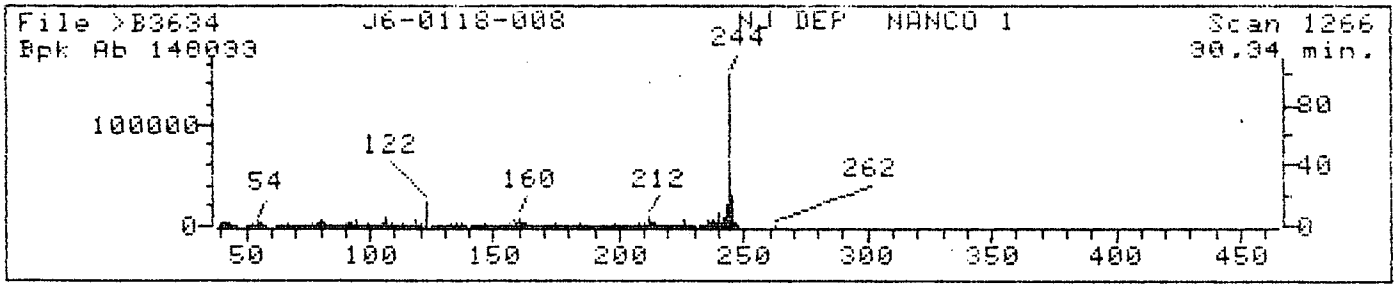


SAMPLE SPECTRUM (UNALTERED)



Data File: >B3634::D1
Name: J6-0118-008
Misc: NJ DEP NANCO 1 BTL#16
Quant Time: 861009 10:17
Injected at: 861009 02:29

Compound No: 81
Compound Name: Terphenyl-d14 (Surr)
Scan Number: 1266
Retention Time: 30.34 min.
Area: ~~437172~~ 341156 (56)
Concentration: ~~167.80~~ UG
q-value: 98 130.79

MS data file header from : >B3634

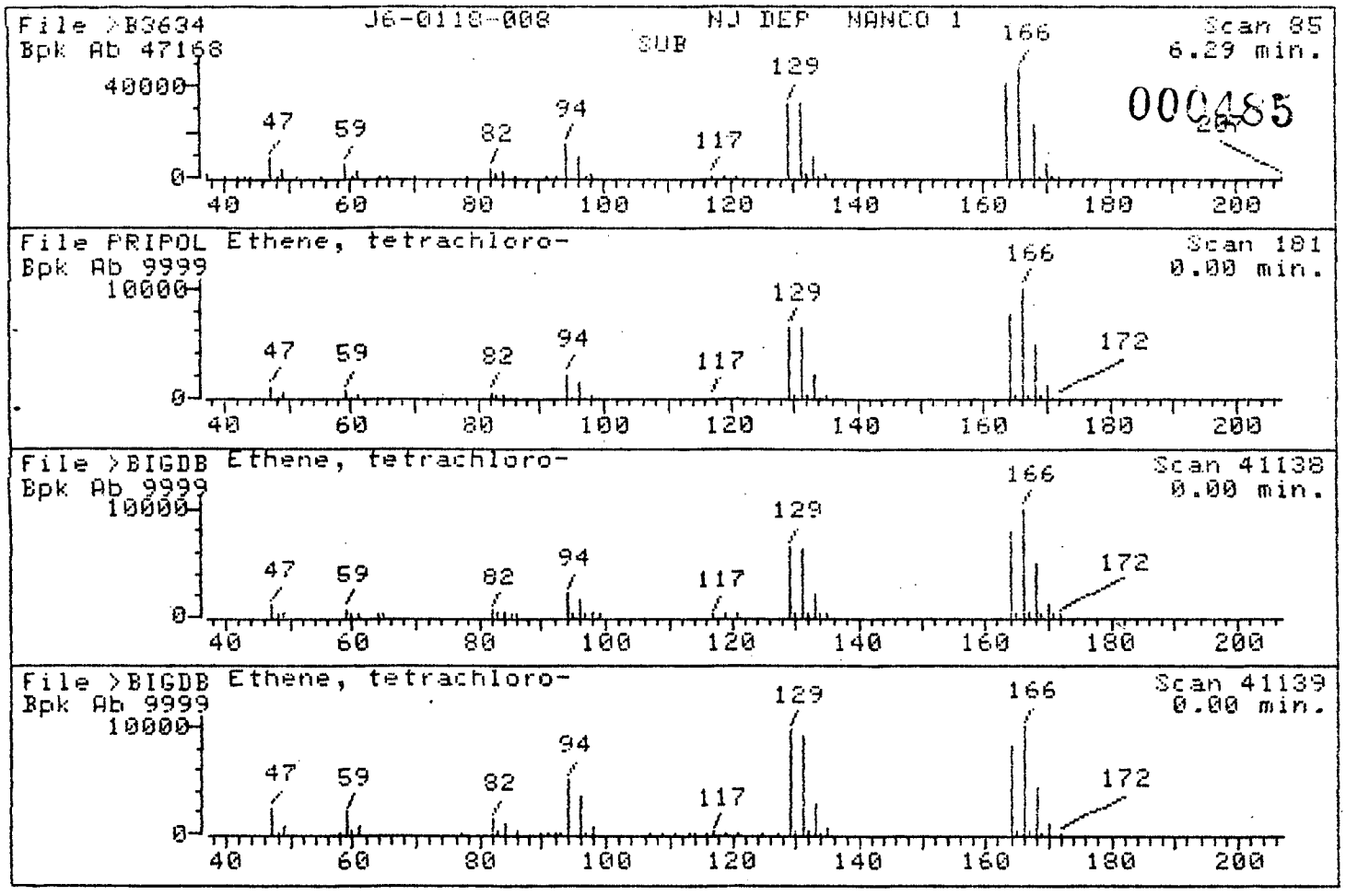
Sample: J6-0118-008 Operator: JAHANI MS 10/09/86 2:29
Misc : NJ DEP NANCO 1 BTL#16
Sys. #: 1 MS model: 96 SW/HW rev.: IA ALS # : 0
Method file: METH01 Tuning file: MT7986 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	310.	0.	0.	0.
Chromatographic times, min. :	4.0	10.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

>B3634 J6-0118-008 NJ DEP NANCO 1 000484
35.0| 500.0 TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	6.295	83	85	96	245854	799114	705880	39.27	4.323
SR 2	8.406	187	189	200	290929	886218	800560	44.54	4.903
SR 3	11.046	316	319	333	199838	869380	761947	42.39	4.666
SS 4	11.574	342	345	347	527458	1443778	1384066	77.00	8.476
SR 5	13.259	425	428	436	281692	819886	759170	42.24	4.649
IS 6	15.309	524	529	532	671720	1828485	1782677	99.18	10.917
SR 7	18.823	695	702	708	519263	1592044	1452165	80.79	8.893
IS 8	20.775	786	798	801	519584	2047242	1797487	100.00	11.008
SR 9	23.240	904	919	926	299402	2269744	1316341	73.23	8.061
10	24.138	960	963	967	61856	594065	166032	9.24	1.017
11	25.140	1003	1012	1013	25147	1141578	217319	12.09	1.331
IS 12	25.262	1013	1018	1021	456225	2324829	1489579	82.87	9.122
13	25.569	1030	1033	1036	30819	648630	90076	5.01	.552
14	27.554	1128	1130	1135	26391	985723	103608	5.76	.635
15	28.660	1181	1184	1188	38214	1021723	136273	7.58	.835
16	30.094	1251	1254	1257	17733	796635	86052	4.79	.527
SR 17	30.340	1261	1266	1269	407920	2233013	1303548	72.52	7.983
IS 18	33.393	1409	1415	1420	294825	1852010	1130522	62.89	6.923
19	37.195	1596	1601	1604	12639	502539	74631	4.15	.457
IS 20	37.460	1609	1614	1623	162798	1550581	771139	42.90	4.722

Sum of corrected areas: 16329078.

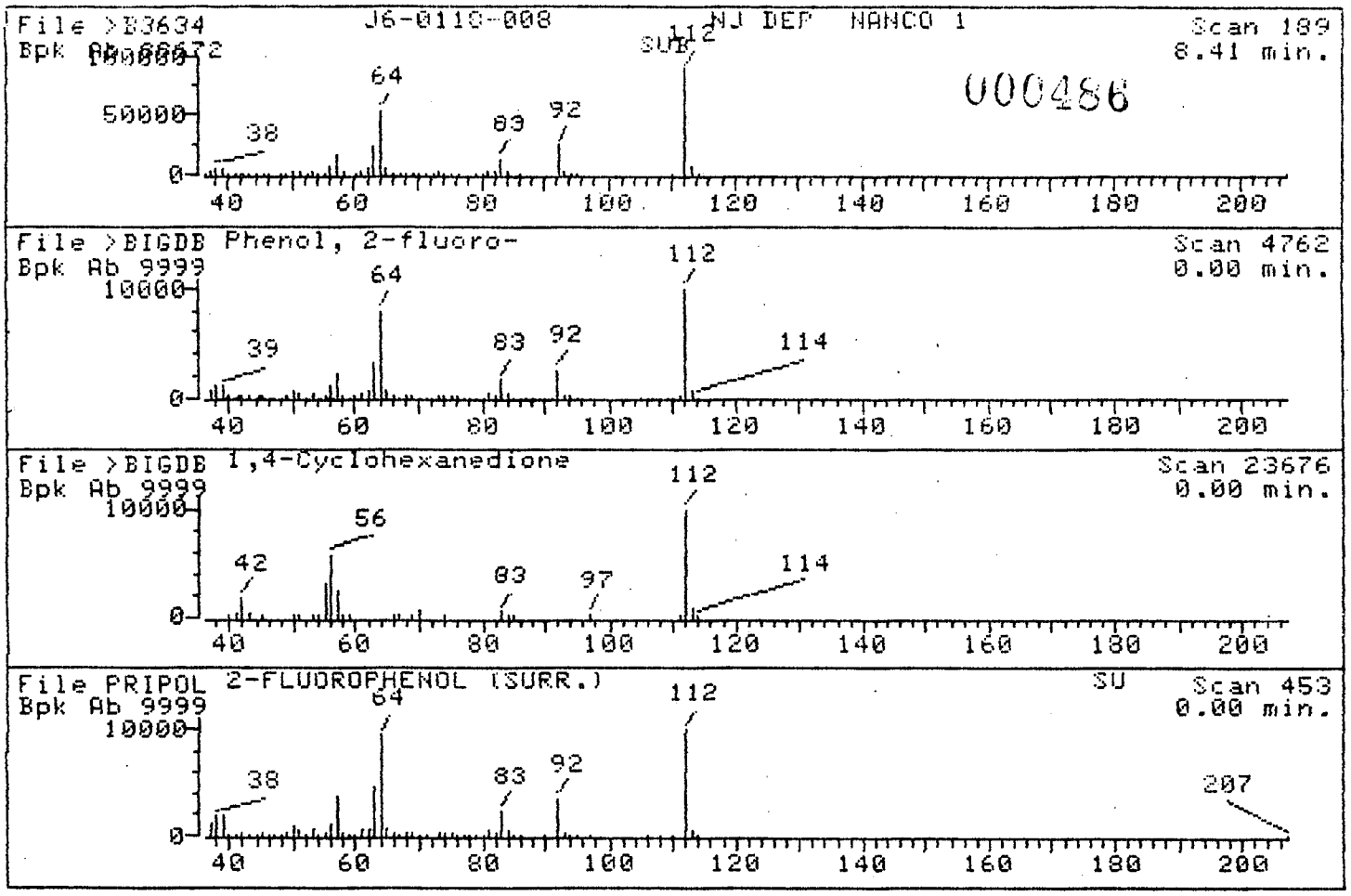


000485

1. Ethene, tetrachloro- 164 C2Cl4
2. ~~Ethene, tetrachloro-~~ 164 C2Cl4
3. Ethene, tetrachloro- 164 C2Cl4
4. Ethene, tetrachloro- 164 C2Cl4
5. Ethene, tetrachloro- 164 C2Cl4

Sample file: >B3634 Spectrum #: 85
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.	97*	181	280	PRIPOL	97	25	0	0	95	0	72	97
2.	97*	127184	41138	"BIGDB	97	25	0	0	95	0	72	97
3.	92*	127184	41139	"BIGDB	84	47	0	0	53	30	57	95
4.	92*	182	281	PRIPOL	84	47	0	0	53	30	57	95
5.	89*	180	279	PRIPOL	68	52	1	0	100	4	66	66

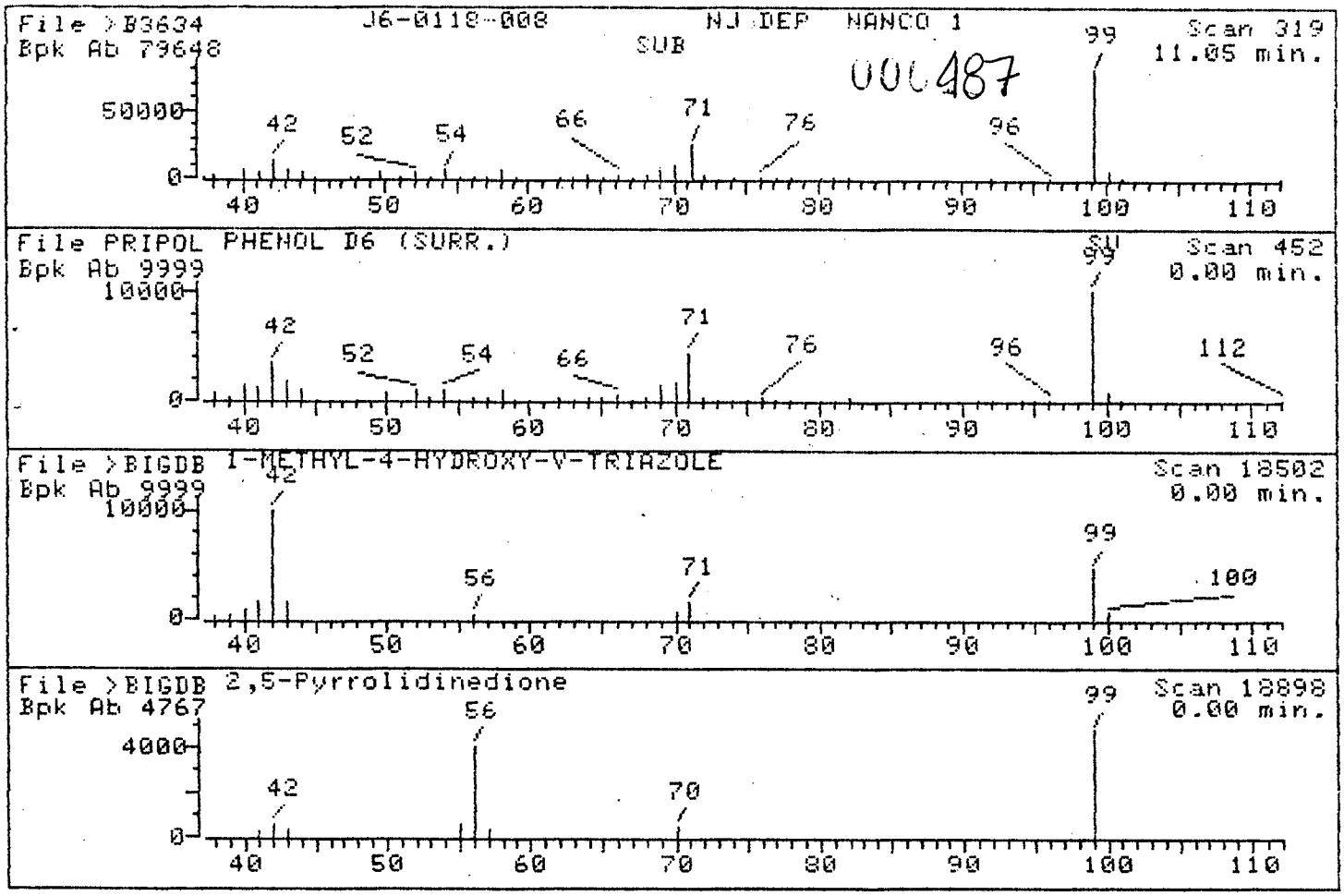


1. Phenol, 2-fluoro- 112 C6H5FO
2. 1,4-Cyclohexanedione 112 C6H8O2
3. 2-FLUOROPHENOL (SURR.) SU 112 C6.H5FO
   RROGATE COMPOUND BNA
   SURROGATE
4. Pyrazine, 1,4-dioxide 112 C4H4N2O2
5. Phenol, 4-fluoro- 112 C6H5FO

56

Sample file: >B3634 Spectrum #: 189
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*	367124	4762	"BIGDB	59	50	1	0	54	37	21	53
2.	25*	637887	23676	"BIGDB	24	64	3	0	100	47	7	12
3.	15*	453	57	PRIPOL	40	61	0	0	27	61	3	41
4.	15*	2423849	23384	"BIGDB	24	55	3	0	100	56	3	12
5.	11*	371415	23406	"BIGDB	21	69	2	0	64	62	2	13



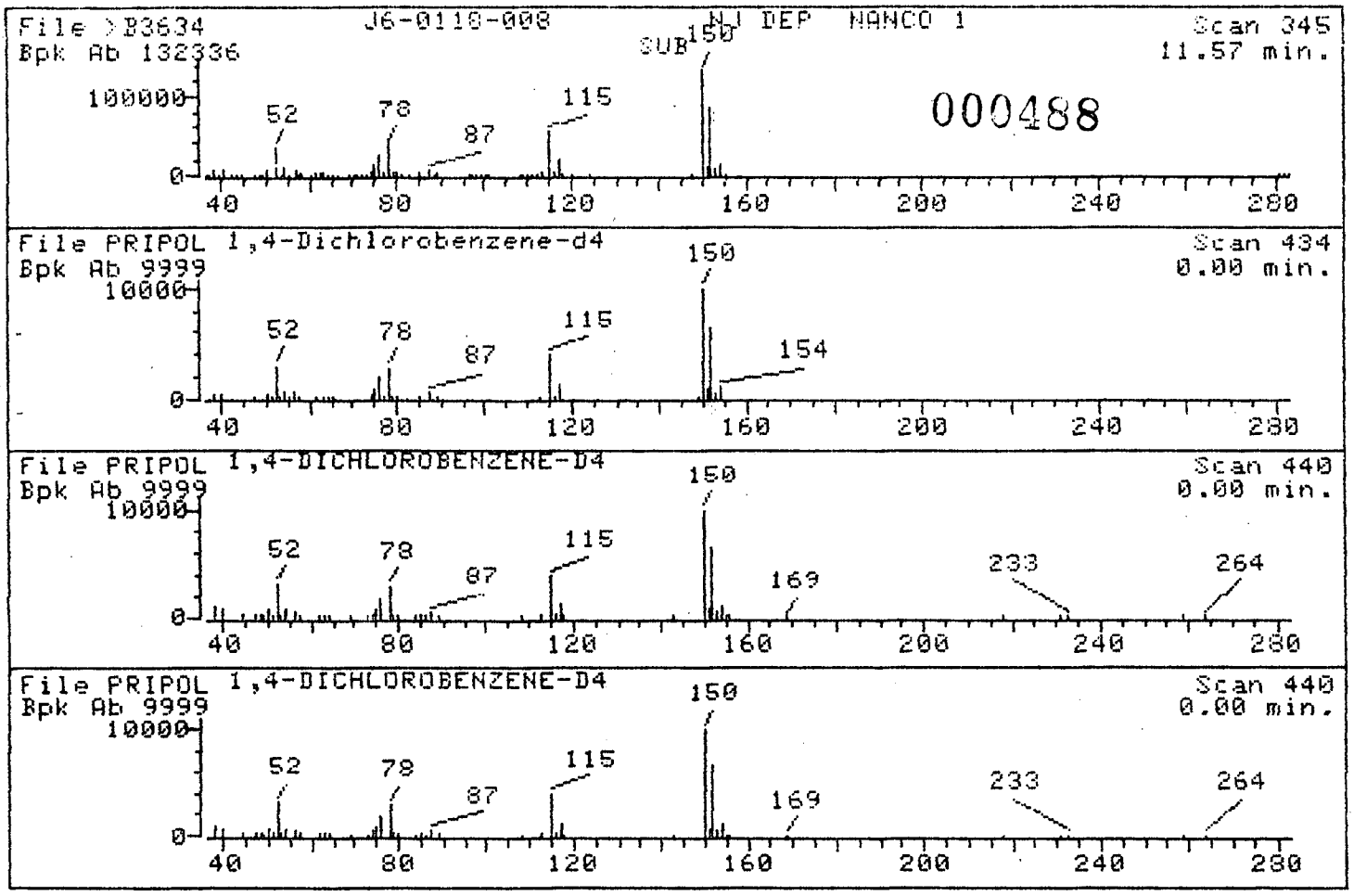
006487

✓ 56

1.	PHENOL D6 (SURR.)	SU	100 C6.D6.0
	PROGATE COMPOUND	BNA	
	SURROGATE		
2.	1-METHYL-4-HYDROXY-V-TRIAZOLE		99 C3H5N3O
3.	2,5-Pyrrolidinedione		99 C4H5NO2
4.	2,5-Pyrrolidinedione		99 C4H5NO2
5.	3,4-DIAMINO-1,2,4-TRIAZOLE		99 C2H5N5

Sample file: >B3634 Spectrum #: 319
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.	92*	452	159	PRIPOL	80	14	0	0	50	27	57	95
2.	42*	0	18502	"BIGDB	20	51	2	0	215	22	17	13
3.	32*	123568	18898	"BIGDB	30	39	2	0	100	32	12	15
4.	30*	123568	18505	"BIGDB	23	60	2	0	100	35	12	13
5.	26*	0	18500	"BIGDB	24	33	3	0	100	38	10	12



1. 1,4-Dichlorobenzene-d4 150 C6.D4.CL4

800

2. 1,4-DICHLOROBENZENE-D4 150 C6.D4.CL4

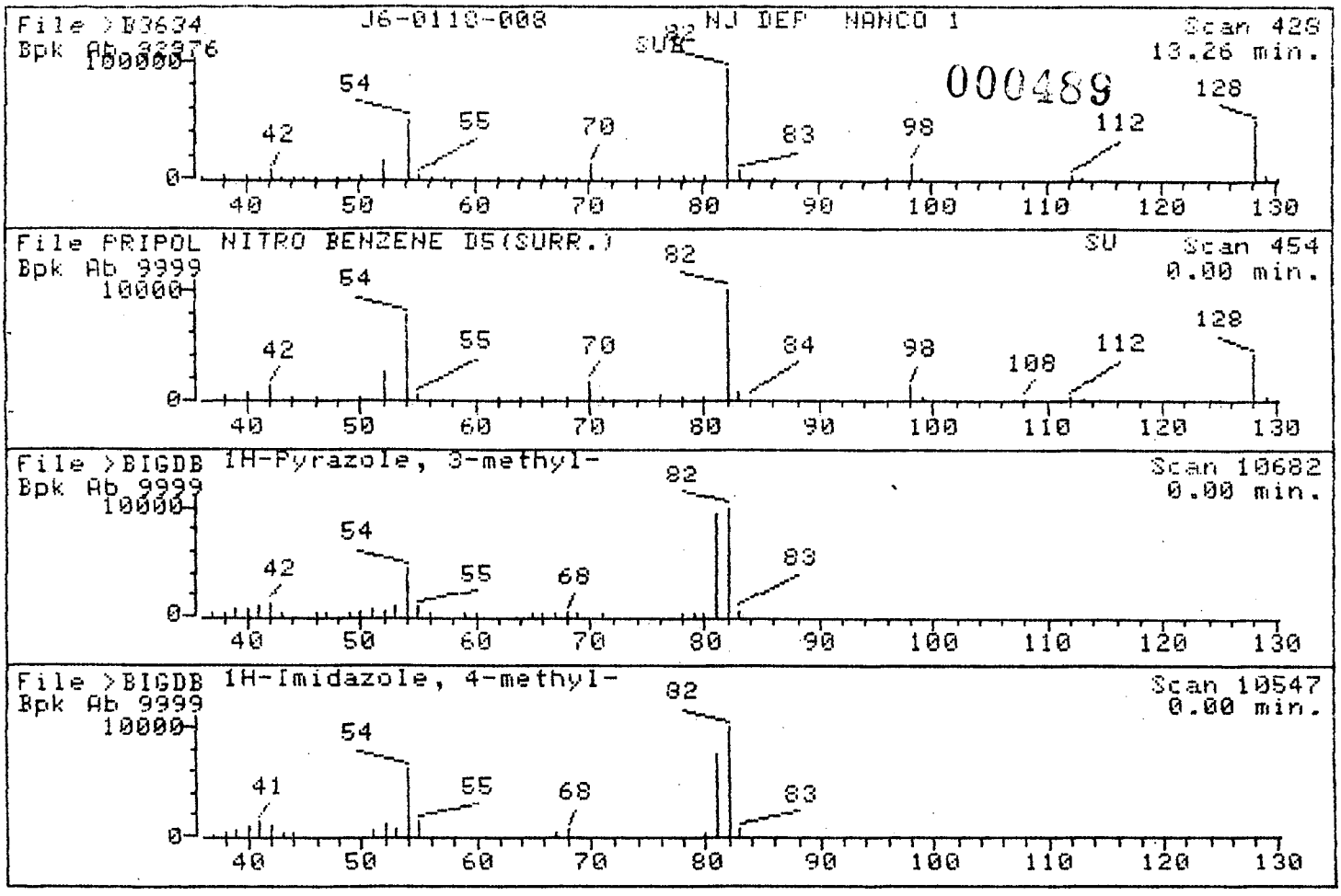
BNA

INTERNAL STD. 1

Sample file: >B3634 Spectrum #: 345

Search speed: 1 Tilting option: N No. of ion ranges searched: 40

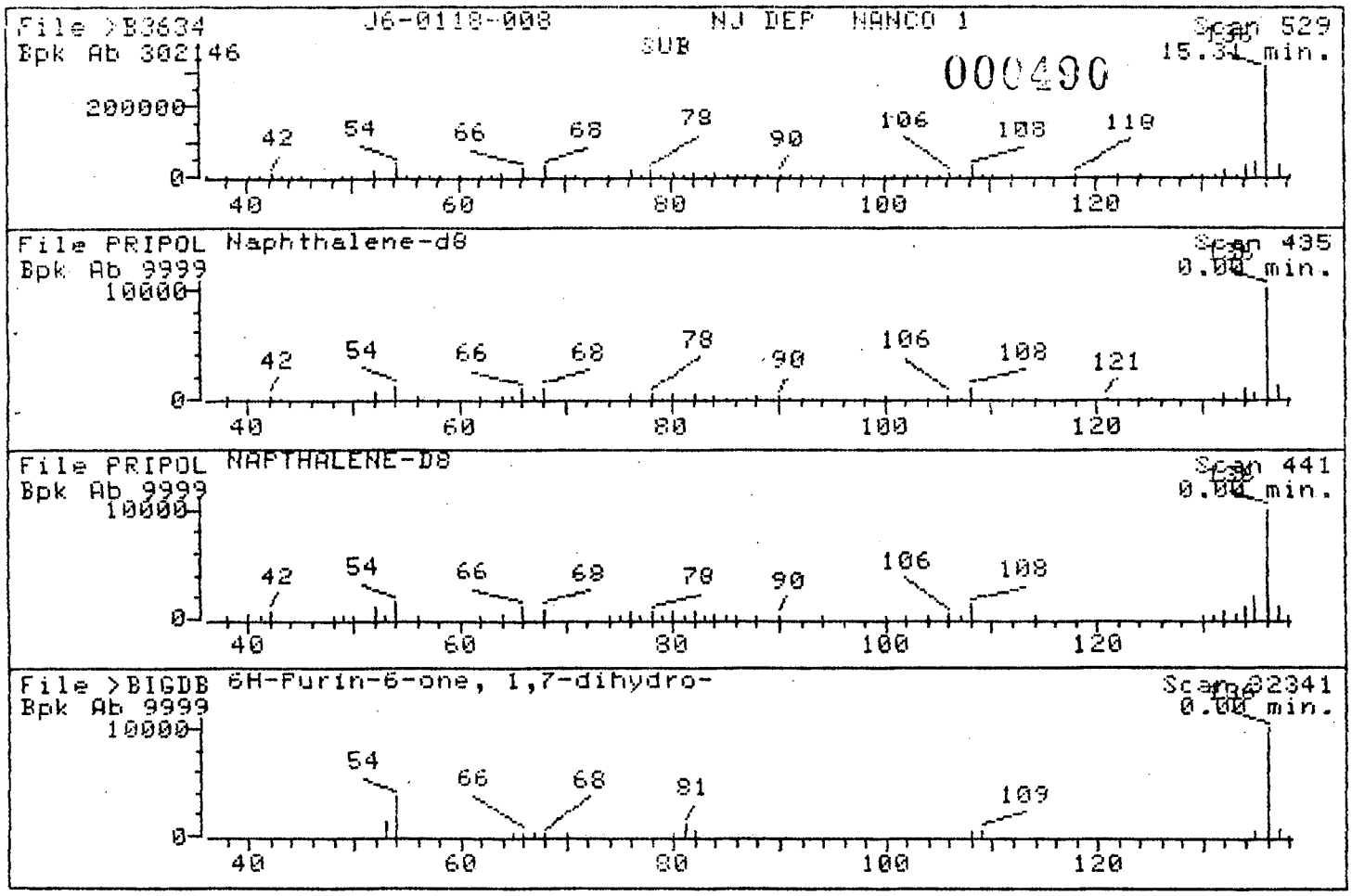
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	434	256	PRIPOL	101	6	1	0	77	6	68	96
2.	83*	440	257	PRIPOL	73	37	2	0	82	6	54	55



1. NITRO BENZENE D5(SURR.) SU 128
   RROGATE COMPOUND BNA
   SURROGATE
2. 1H-Pyrazole, 3-methyl- 82 C4H6N2
3. 1H-Imidazole, 4-methyl- 82 C4H6N2
4. 1H-Imidazole, 4-methyl- 82 C4H6N2

Sample file: >B3634 Spectrum #: 428
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.	76*	454	15	PRIPOL	64	39	0	0	51	31	32	77
2.	27*	1453583	10682	"BIGDB	31	59	3	0	100	39	10	13
3.	27*	822366	10547	"BIGDB	26	65	3	0	87	36	10	13
4.	27*	822366	10681	"BIGDB	27	69	3	0	77	36	10	13

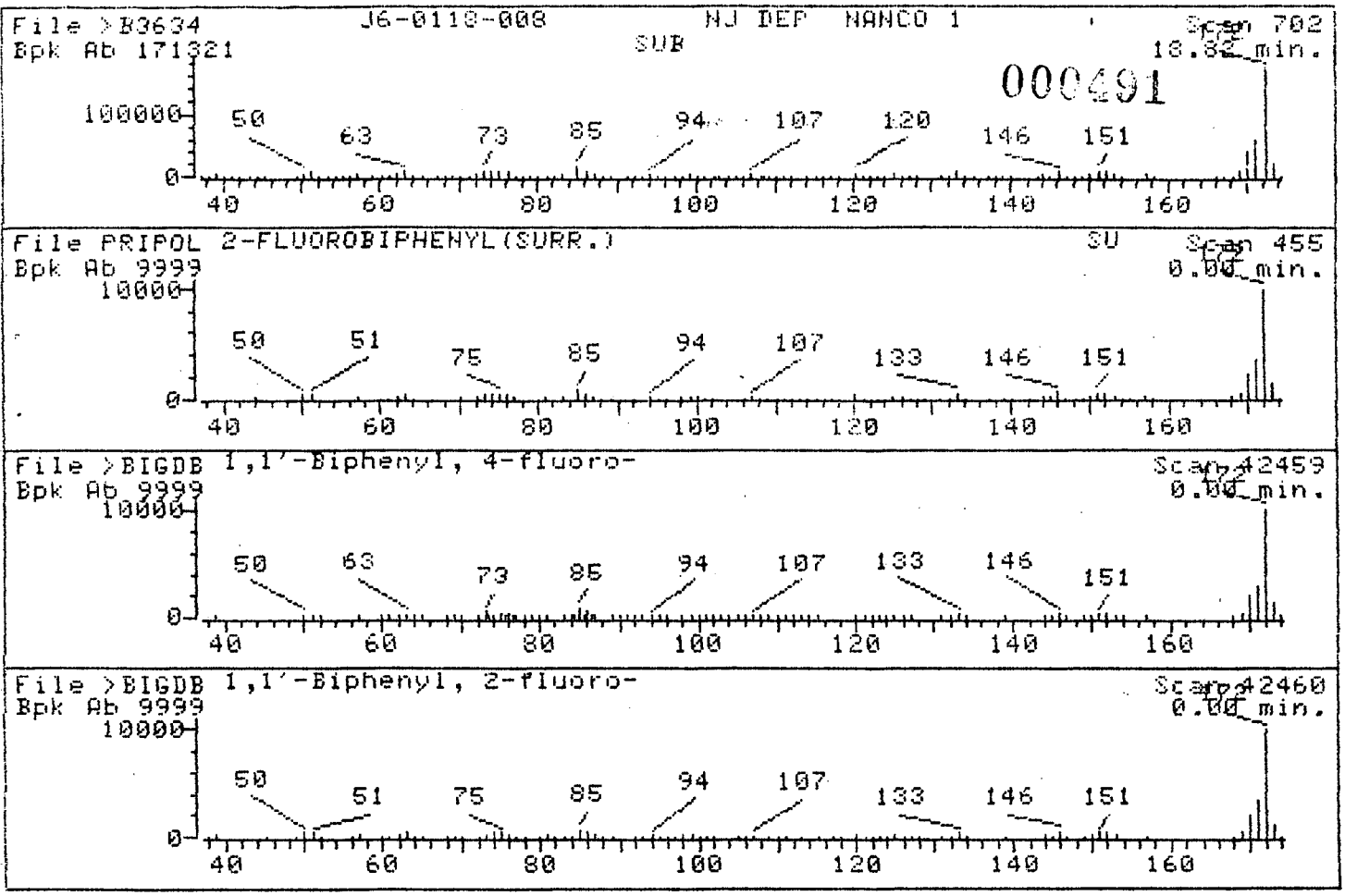


76

1.	Naphthalene-d8	136	C10.D8
			800
2.	NAPTHALENE-D8	136	C10.D8.
		BNA	
	INTERNAL STD.		1
3.	6H-Purin-6-one, 1,7-dihydro-	136	C5H4N4O
4.	6H-Purin-6-one, 1,7-dihydro-	136	C5H4N4O
5.	Benzaldehyde, 3-methoxy-	136	C8H8O2

Sample file: >B3634 Spectrum #: 529
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

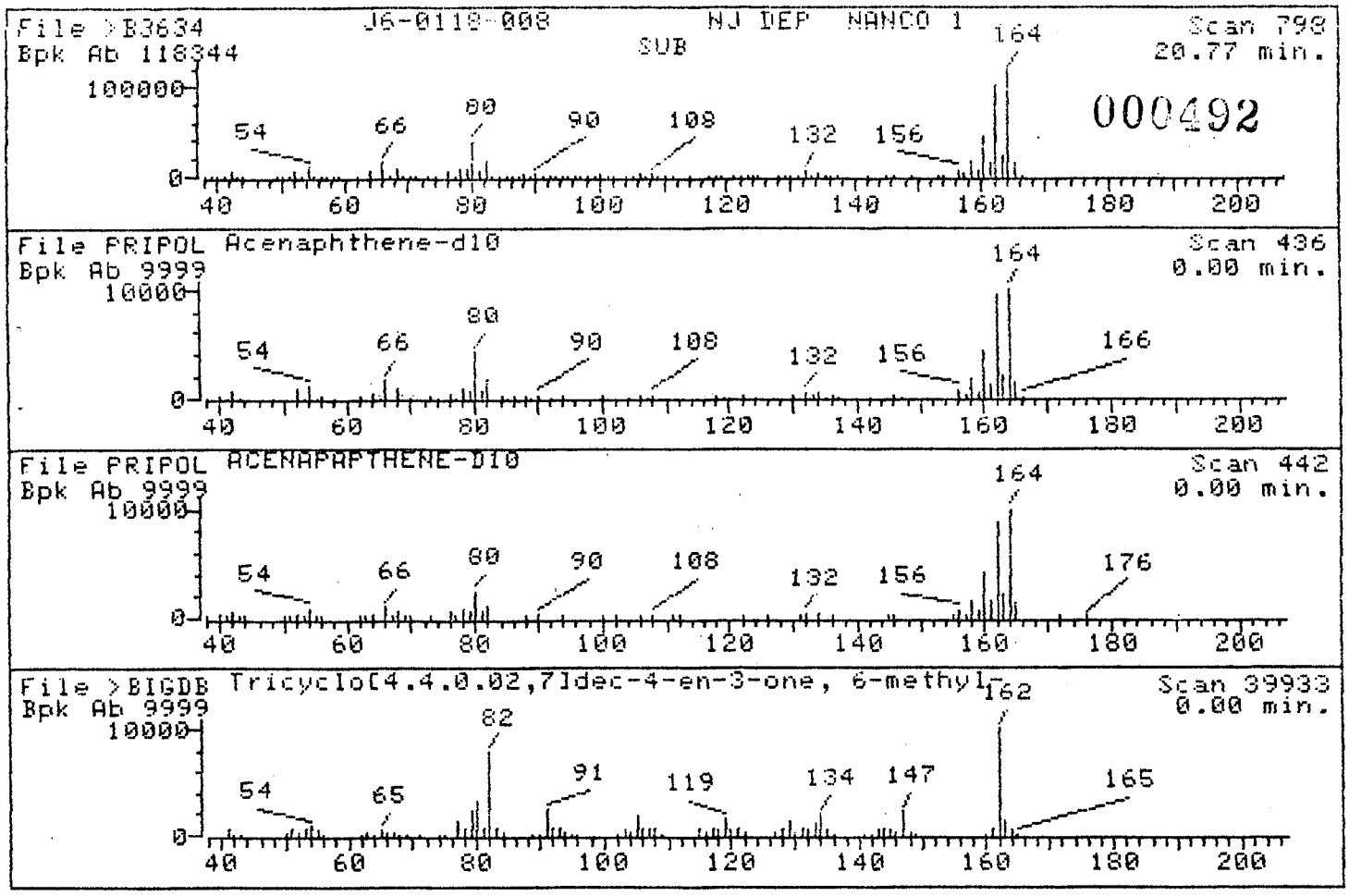
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	435	208	PRIPOL	72	21	0	0	66	33	40	89
2.	71*	441	209	PRIPOL	74	28	1	0	60	32	32	72
3.	52*	68940	32341	"BIGDB	30	55	3	0	100	20	20	13



1. 2-FLUOROBIPHENYL(SURR.) SU 172 C12H9F
   RROGATE COMPOUND BNA
   SURROGATE
2. 1,1'-Biphenyl, 4-fluoro- 172 C12H9F
3. 1,1'-Biphenyl, 2-fluoro- 172 C12H9F
4. 2-Propenenitrile, 3-[4-(dimethylamino)phenyl]- 172 C11H12N2
5. 1,3-DIMETHYL-2,4-(1H,3H)-PYRIMIDINEDITHIONE 172 C6H8N2S2

Sample file: >B3634 Spectrum #: 702
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.	97*	455	299	PRIPOL	95	9	0	0	84	6	68	97
2.	96*	324743	42459	"BIGDB	94	10	0	0	97	6	68	96
3.	96*	321608	42460	"BIGDB	89	15	0	0	92	6	68	96
4.	25*	32444636	42458	"BIGDB	26	67	3	0	100	43	8	13
5.	24*	0	42396	"BIGDB	23	92	3	0	100	45	8	12

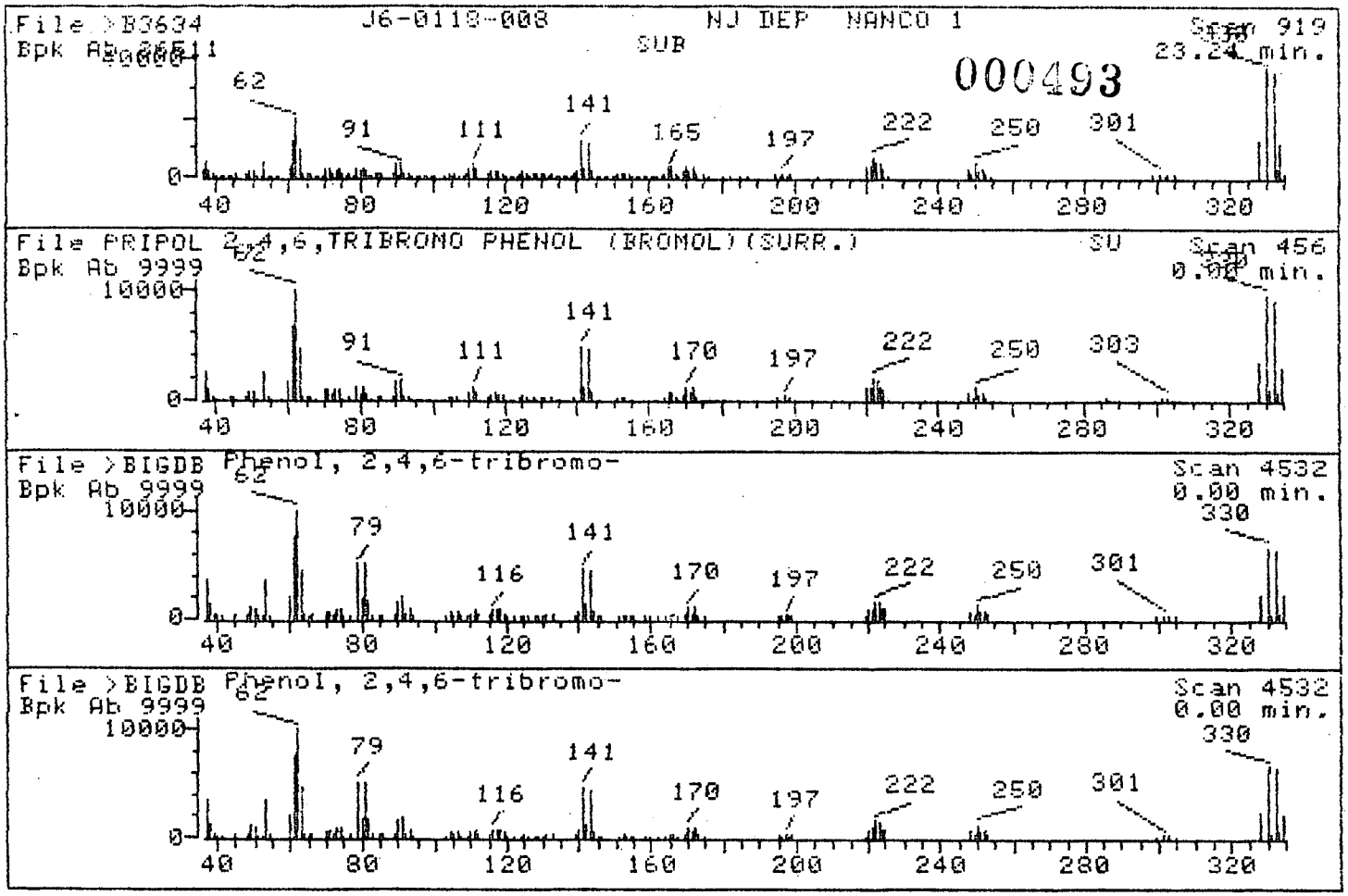


76

1.	Acenaphthene-d10	164	C12.D10
			800
2.	ACENAPAPTHENE-D10	164	C12.D10
		BNA	
	INTERNAL STD.		1
3.	Tricyclo[4.4.0.02,7]dec-4-en-3-one, 6-methyl-	162	C11H14O
4.	2H-1,5-Benzodioxepin, 3,4-dihydro-3-methylene-	162	C10H10O2
5.	2-Benzothiazolamine, 6-methyl-	164	C8H8N2S

Sample file: >B3634 Spectrum #: 798
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.	99*	436	274	PRIPOL	117	1	0	0	71	0	72	99
2.	97*	442	275	PRIPOL	106	11	0	0	79	0	72	97
3.	25*	6518509	39933	"BIGDB	31	84	3	0	88	49	7	13



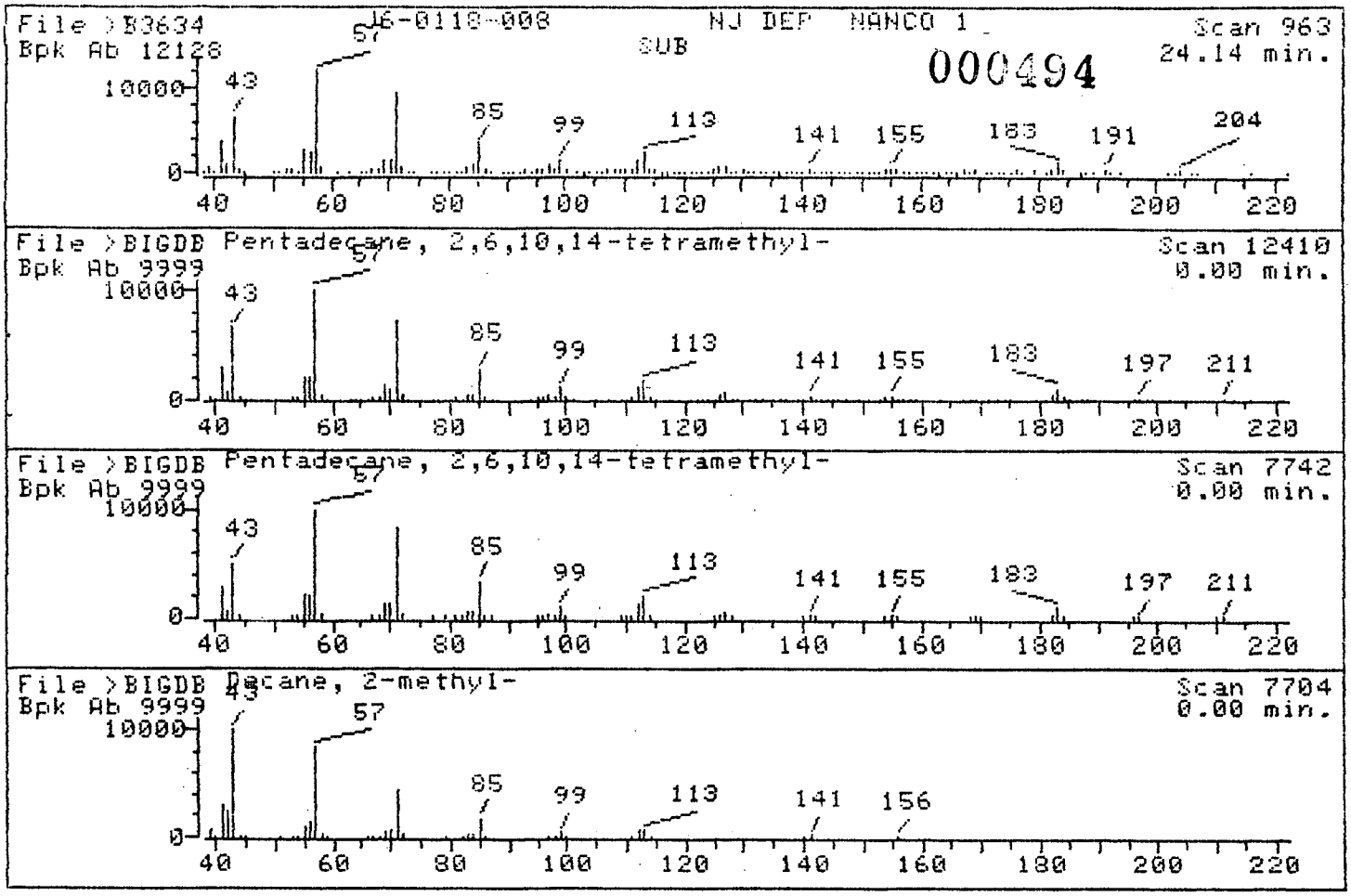
000493

/16

1. 2,4,6,TRIBROMO PHENOL (BROMOL)(SURR.) SU 328 C6.H3.BR30
   RROGATE COMPOUND BNA
   SURROGATE
2. Phenol, 2,4,6-tribromo- 328 C6H3Br3O

Sample file: >B3634 Spectrum #: 919
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.	74*	456	36	PRIPOL	158	40	0	0	51	51	35	99
2.	23*	118796	4532	"BIGDB	75	127	3	0	54	60	6	40

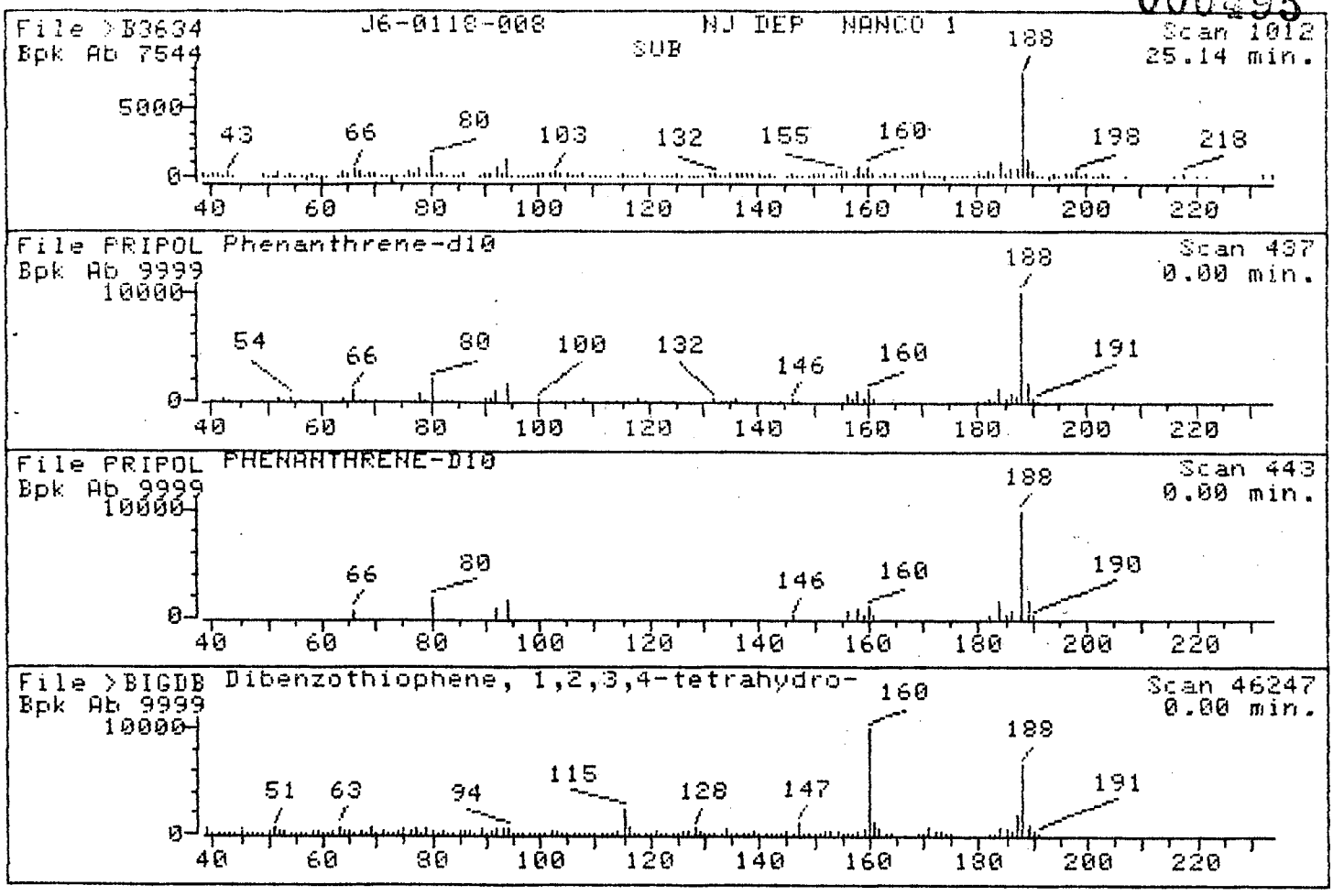


X 257.56

1. Pentadecane, 2,6,10,14-tetramethyl- 268 C19H40
2. Pentadecane, 2,6,10,14-tetramethyl- 268 C19H40
3. Decane, 2-methyl- 156 C11H24
4. Tetracosane, 2,6,10,15,19,23-hexamethyl- 422 C30H62
5. Tridecane, 5-propyl- 226 C16H34

Sample file: >B3634 Spectrum #: 963
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.	89	1921706	12410	"BIGDB	120	12	1	0	74	1	66	74
2.	89	1921706	7742	"BIGDB	117	15	1	0	79	1	66	72
3.	87*	6975980	7704	"BIGDB	62	32	2	0	119	5	63	46
4.	86	111013	12853	"BIGDB	100	50	2	0	84	1	60	33
5.	83	55045119	12353	"BIGDB	76	37	2	0	100	2	57	21



1. Phenanthrene-d10 188 C14.D10

800

2. PHENANTHRENE-D10 188 C14.D10

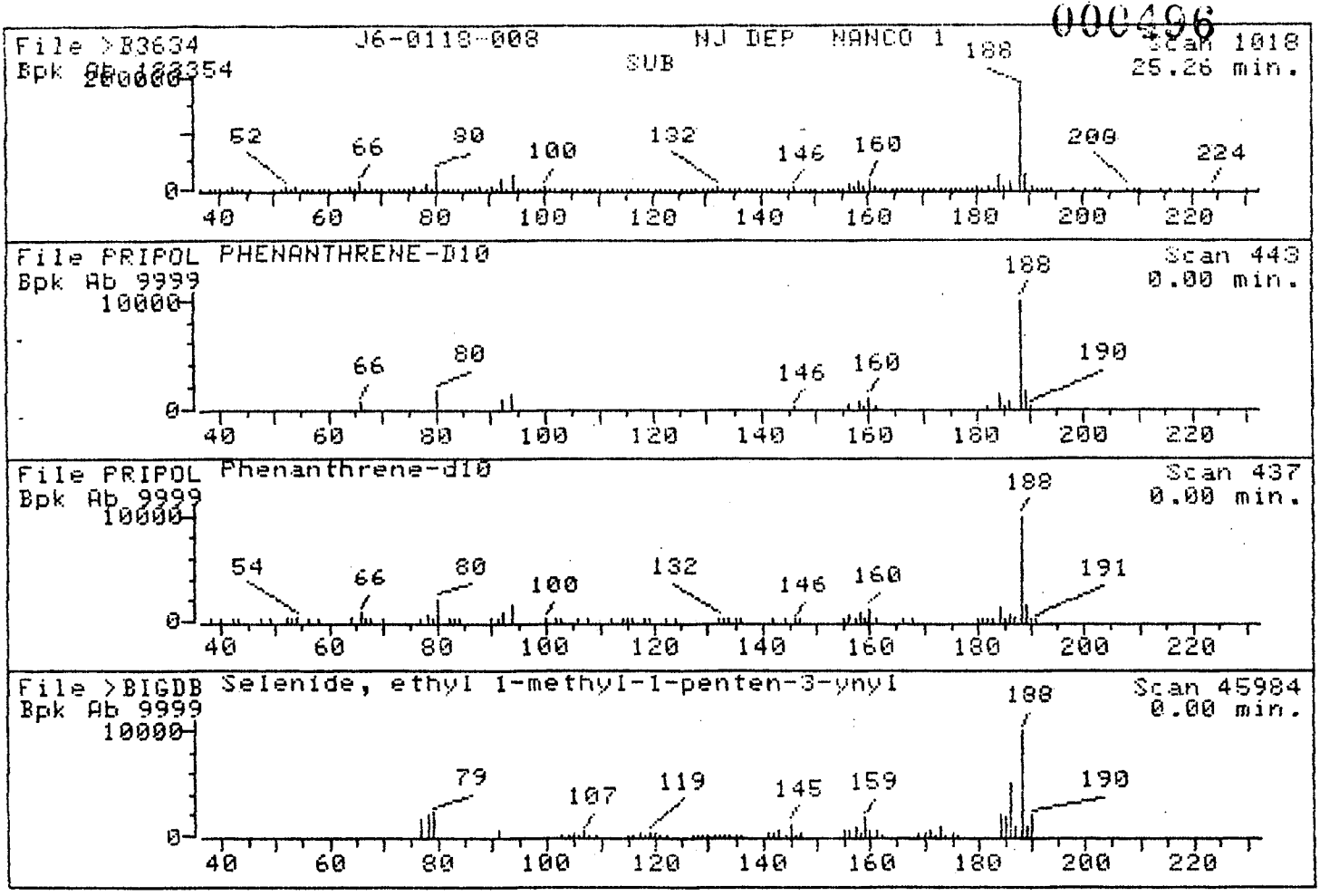
BNA

INTERNAL STD. 1

3. Dibenzothiophene, 1,2,3,4-tetrahydro- 188 C12H12S
4. Dibenzothiophene, 1,2,3,4-tetrahydro- 188 C12H12S
5. Selenide, ethyl 1-methyl-1-penten-3-ynyl 188 C8H12Se

Sample file: >B3634 Spectrum #: 1012
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

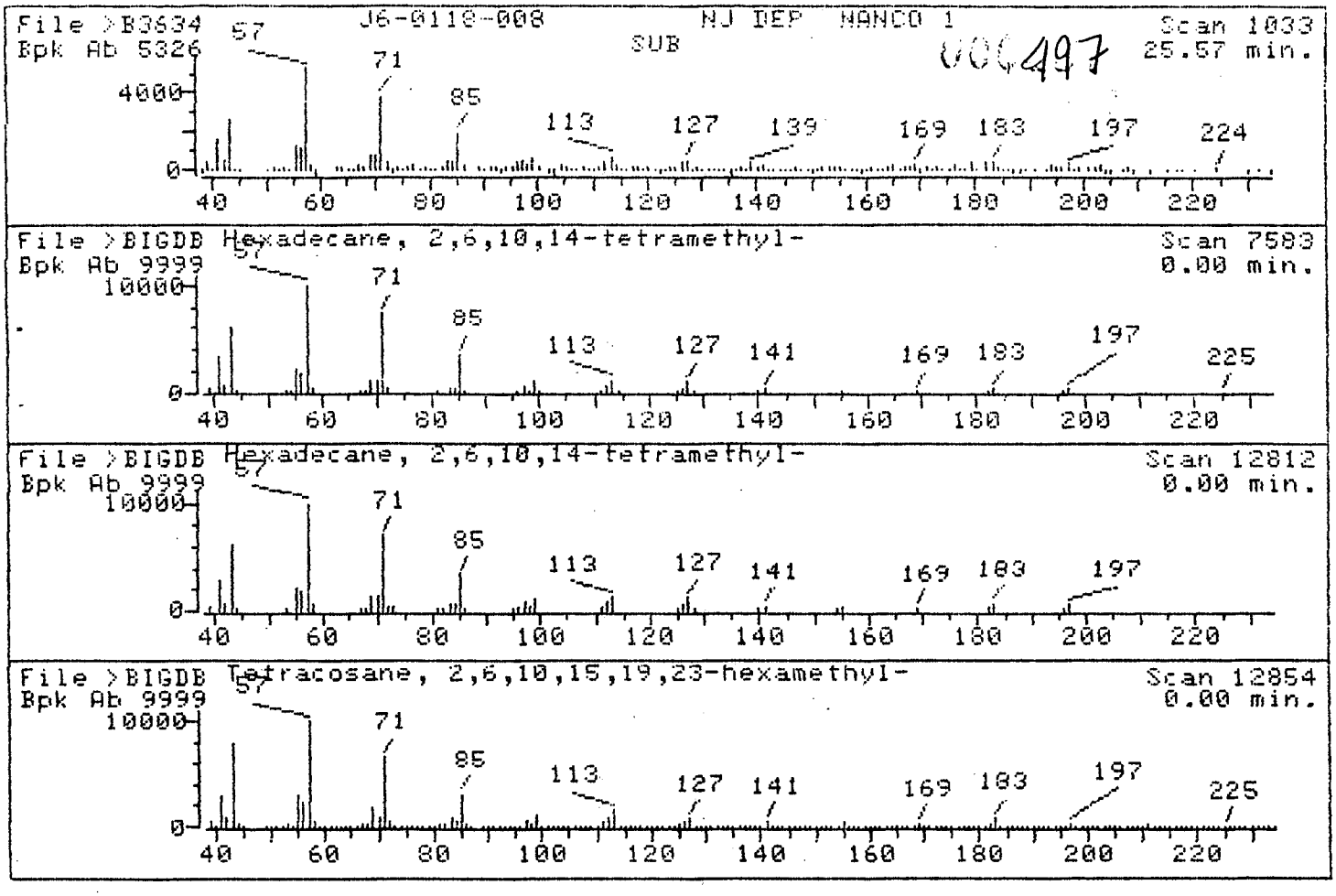
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	437	333	PRIPOL	94	20	0	0	74	3	72	96
2.	96*	443	334	PRIPOL	93	19	0	0	74	3	72	96
3.	42*	16587330	46247	"BIGDB	28	92	3	0	151	25	17	13



1.	PHENANTHRENE-D10	188	C14.D10
		BNA	
	INTERNAL STD.		1
2.	Phenanthrene-d10	188	C14.D10
			800
3.	Selenide, ethyl 1-methyl-1-penten-3-ynyl	188	C8H12Se
4.	4-HYDROXY-6-PHENYL-3-PYRIDAZONE	188	C10H8N2O2
5.	2-Quinolinecarboxaldehyde, 8-hydroxy-, oxime	188	C10H8N2O2

Sample file: >B3634 Spectrum #: 1018
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*	443	334	PRIPOL	111	1	0	0	83	0	72	99
2.	96*	437	333	PRIPOL	106	8	1	0	74	0	72	96
3.	41*	25128487	45984	"BIGDB	24	110	3	0	100	24	17	12



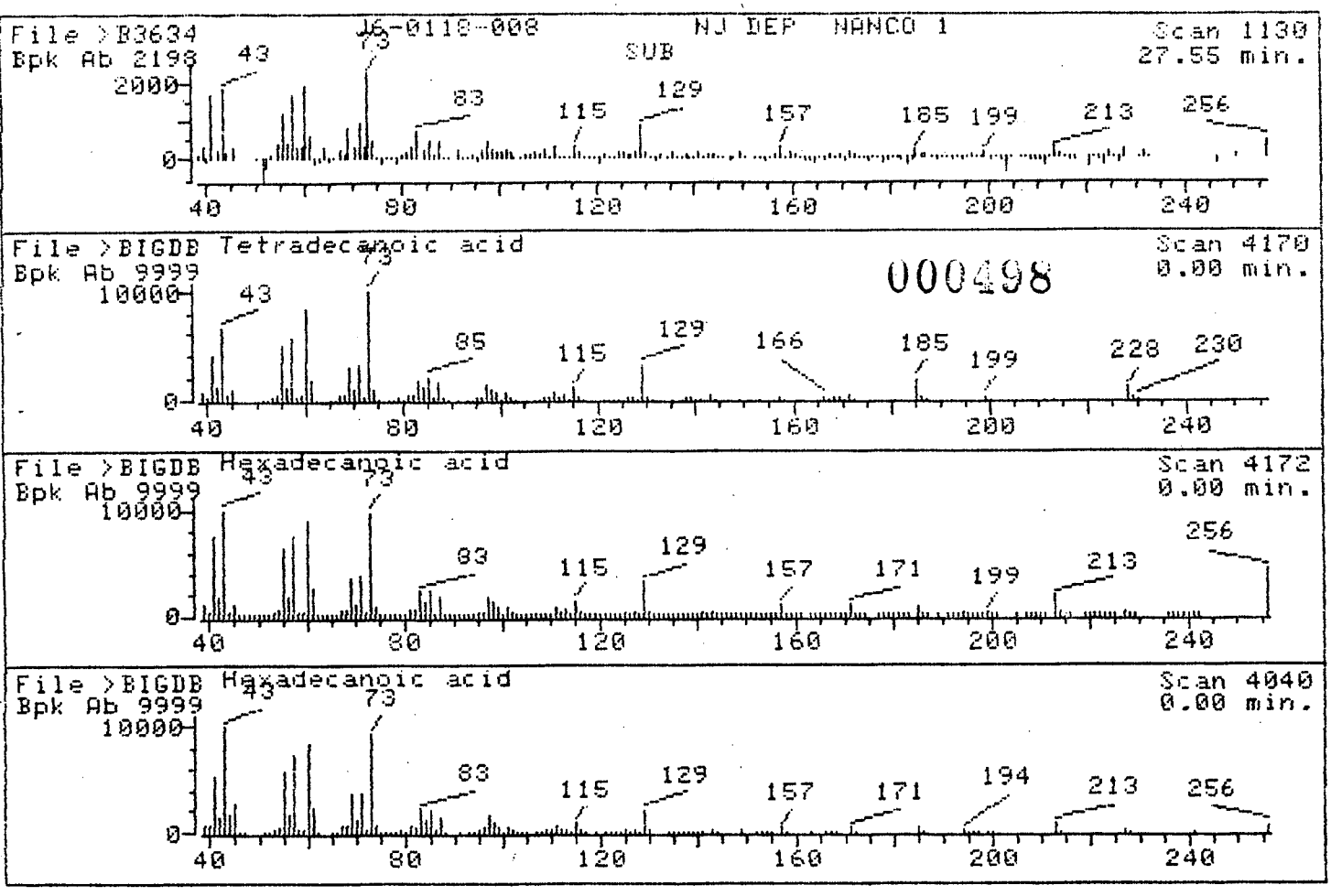
006497

X257. (50)

1. Hexadecane, 2,6,10,14-tetramethyl- 282 C20H42
2. Hexadecane, 2,6,10,14-tetramethyl- 282 C20H42
3. Tetracosane, 2,6,10,15,19,23-hexamethyl- 422 C30H62
4. Heneicosane 296 C21H44
5. Tetracosane, 2,6,10,15,19,23-hexamethyl- 422 C30H62

Sample file: >B3634 Spectrum #: 1033
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	638368	7583	"BIGDB	122	13	1	0	93	4	66	74
2.	88	638368	12812	"BIGDB	115	23	2	0	84	4	65	55
3.	87	111013	12854	"BIGDB	106	46	2	0	78	3	63	42
4.	86	629947	12818	"BIGDB	96	45	2	0	91	4	60	30
5.	86	111013	12853	"BIGDB	100	50	2	0	81	3	60	33



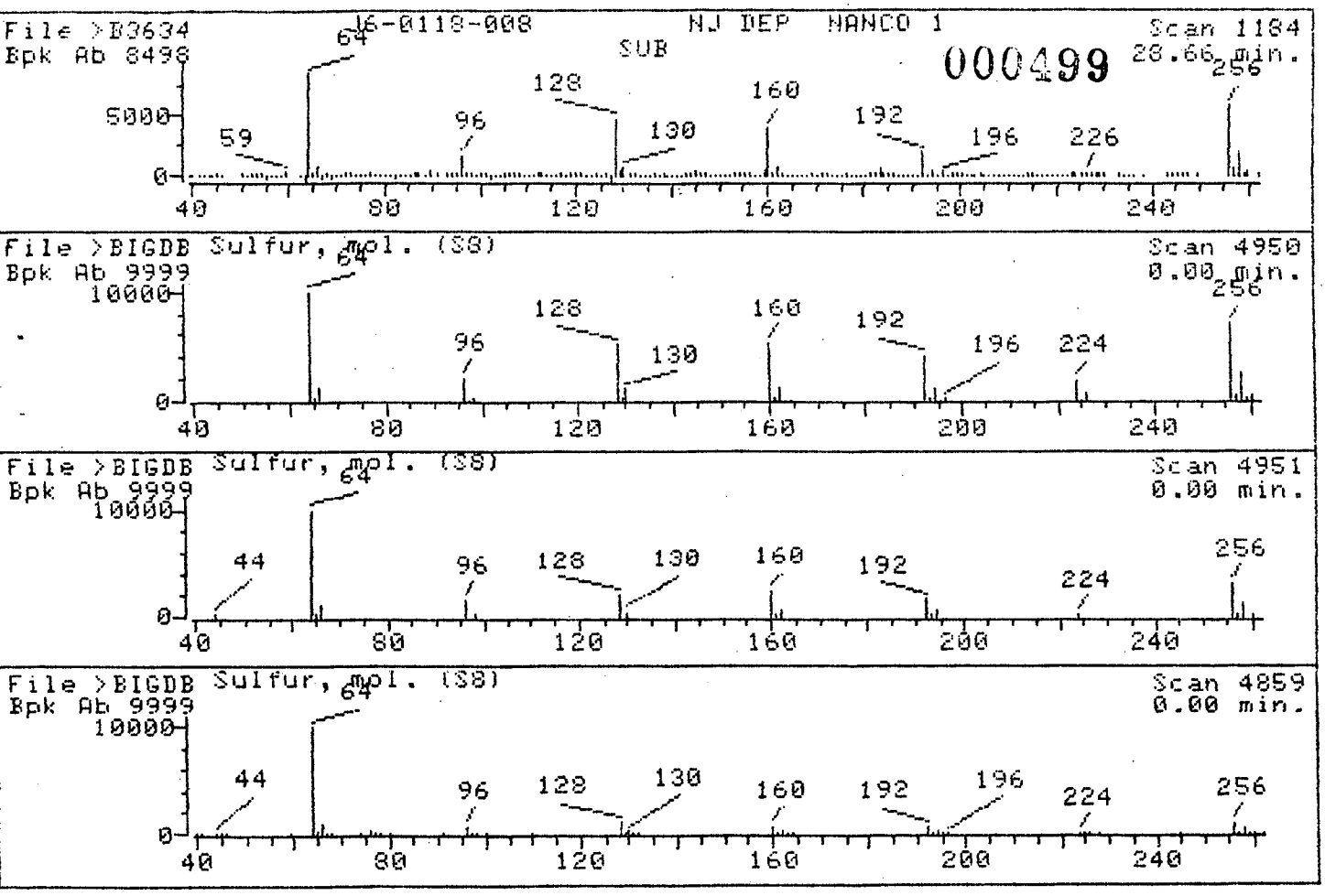
000498

C257.50

1. Tetradecanoic acid 228 C14H28O2
2. Hexadecanoic acid 256 C16H32O2
3. Hexadecanoic acid 256 C16H32O2
4. Hexadecanoic acid 256 C16H32O2
5. Tetradecanoic acid 228 C14H28O2

Sample file: >B3634 Spectrum #: 1130
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.	76	544638	4170	"BIGDB	92	50	2	0	100	10	45	27
2.	76	57103	4172	"BIGDB	99	61	3	0	84	7	45	23
3.	75*	57103	4040	"BIGDB	78	73	2	0	84	20	35	60
4.	70	57103	58376	"BIGDB	85	56	3	0	173	10	42	16
5.	70	544638	4034	"BIGDB	86	60	3	0	95	10	42	16

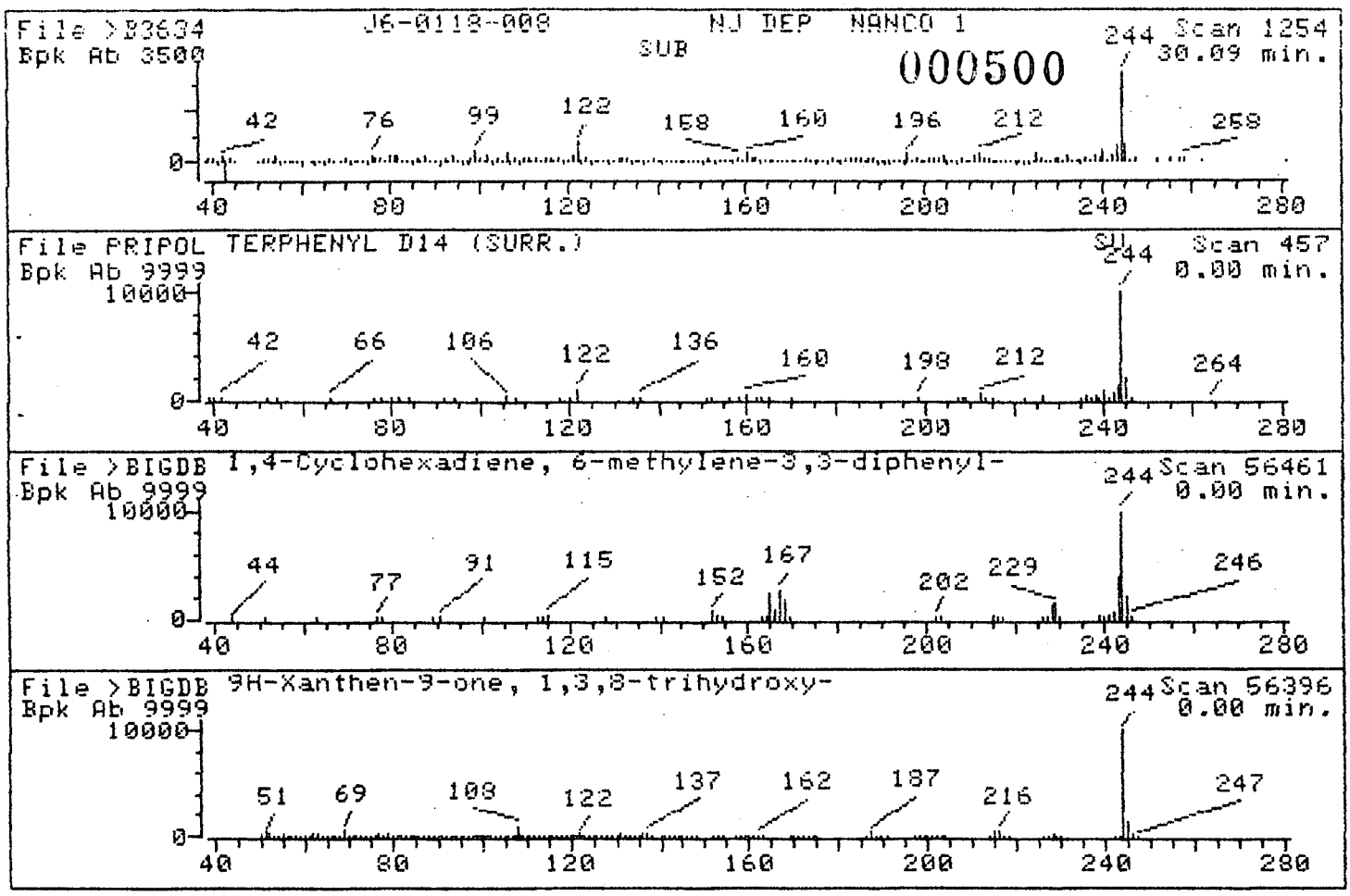


X 2257. (56)

1. Sulfur, mol. (S8) 0
2. Sulfur, mol. (S8) 0
3. Sulfur, mol. (S8) 0

Sample file: >B3634 Spectrum #: 1184
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.	81*	10544500	4950	"BIGDB	83	75	3	0	89	8	53	49
2.	31*	10544500	4951	"BIGDB	41	83	2	0	92	33	12	14
3.	20*	10544500	4859	"BIGDB	26	91	2	0	100	54	5	14

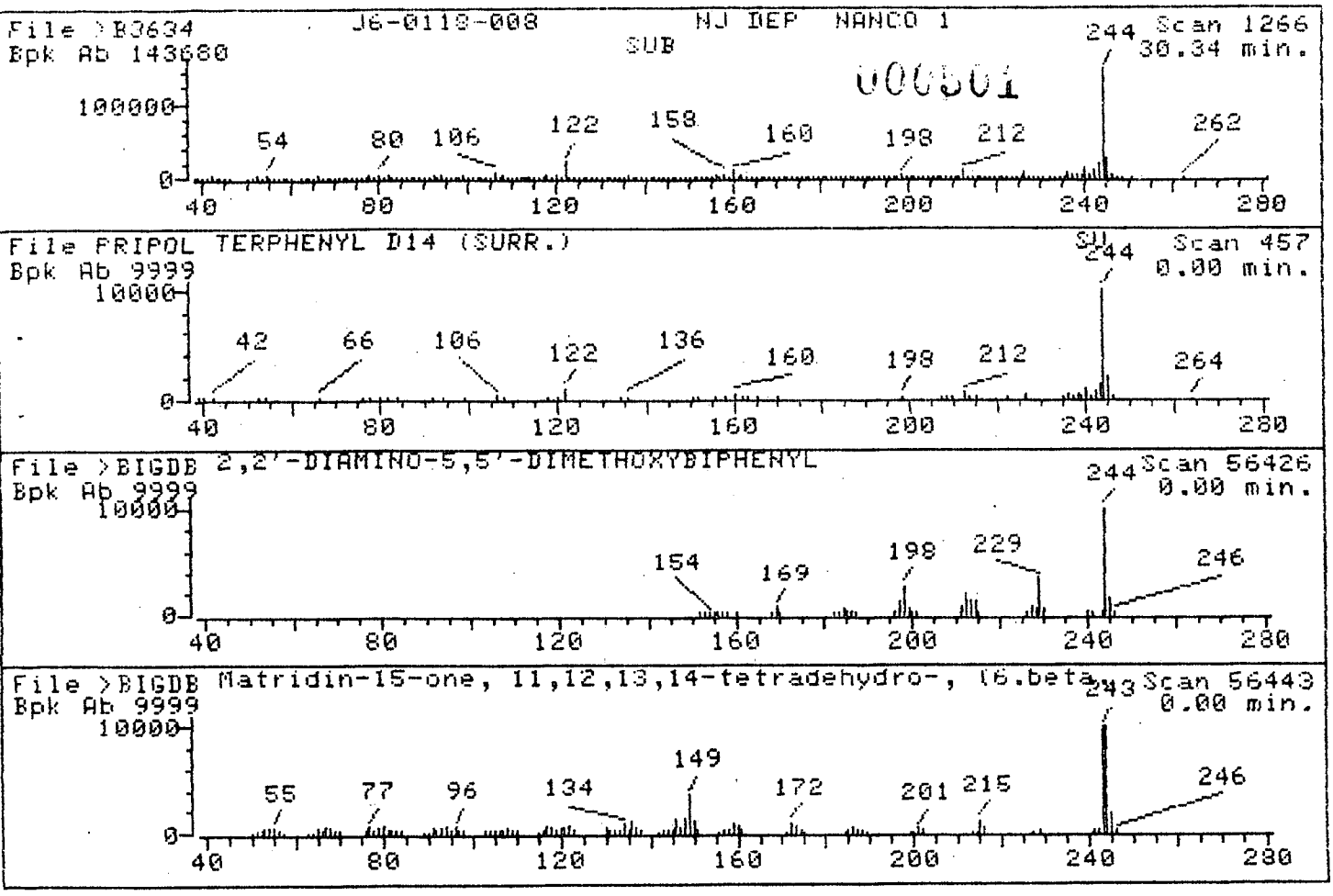


5 16

1.	TERPHENYL D14 (SURR.)	SU	244
	RROGATE COMPOUND	BNA	
	SURROGATE		
2.	1,4-Cyclohexadiene, 6-methylene-3,3-diphenyl-	244	C19H16
3.	9H-Xanthen-9-one, 1,3,8-trihydroxy-	244	C13H8O5
4.	2,4-DICHLOROBENZENEBORONATE OF 1,4-BUTANEDIOL	244	C10H11BCl2O2
5.	Ferrocene, (3-hydroxypropyl)-	244	C13H16FeO

Sample file: >B3634 Spectrum #: 1254
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.	83*	457	403	PRIPOL	91	46	2	0	87	15	51	71
2.	30*	18636594	56461	"BIGDB	32	110	3	0	100	35	12	13
3.	28*	6052933	56396	"BIGDB	34	83	2	0	100	40	10	14
4.	25*	0	56388	"BIGDB	21	22	2	0	106	43	8	13
5.	25*	12093888	56405	"BIGDB	31	92	3	0	100	42	8	13

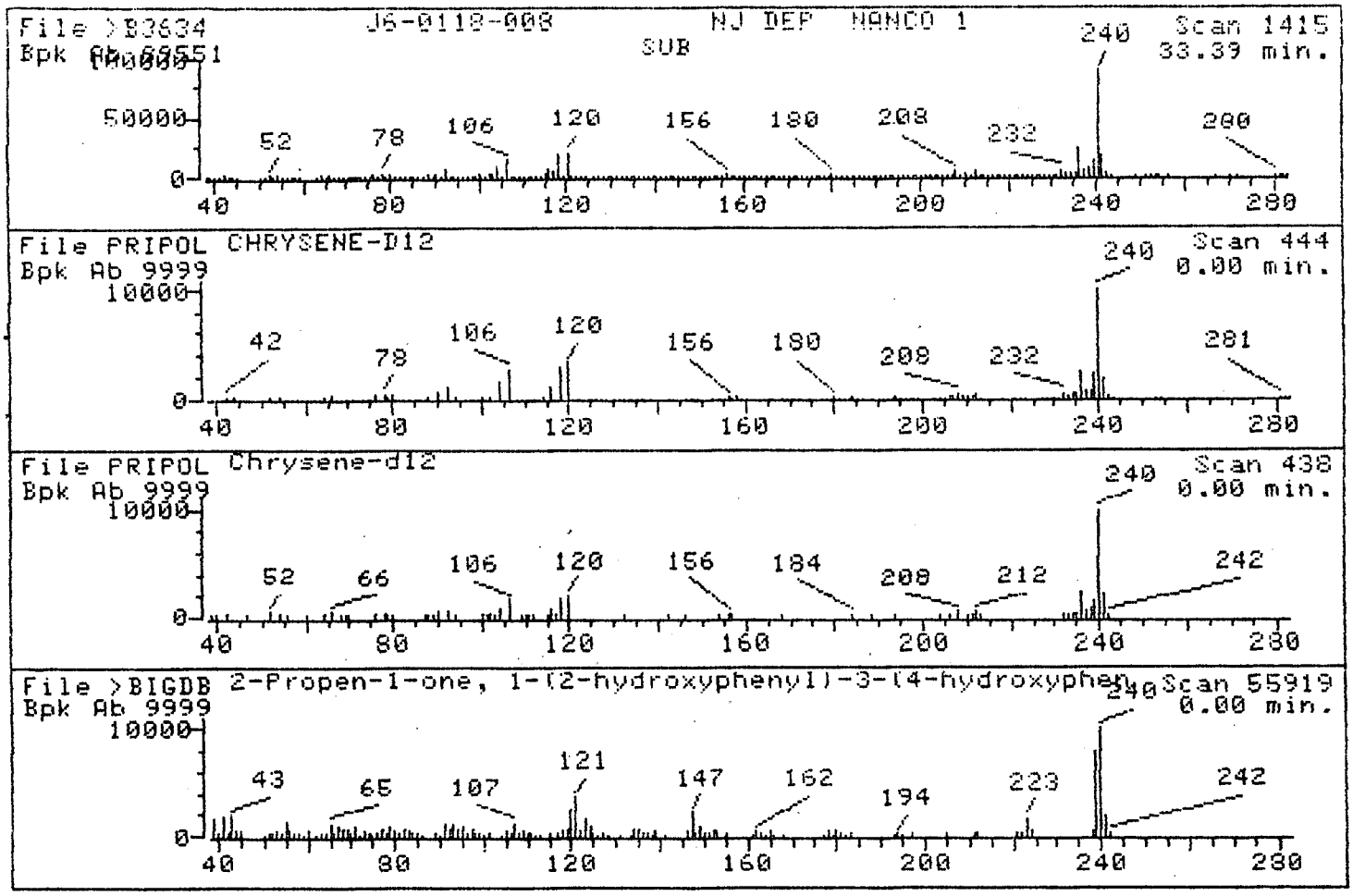


56

1. TERPHENYL D14 (SURR.) SU 244
RROGATE COMPOUND BNA
SURROGATE
2. 2,2'-DIAMINO-5,5'-DIMETHOXYBIPHENYL 244 C14H16N2O2
3. Matridin-15-one, 11,12,13,14-tetradehydro-, (6.beta. 244 C15H20N2O
4. 9H-Xanthen-9-one, 1,3,8-trihydroxy- 244 C13H8O5
5. Ferrocene, (3-hydroxypropyl)- 244 C13H16FeO

Sample file: >B3634 Spectrum #: 1266
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.	97*	457	403	PRIPOL	117	20	1	0	78	0	72	97
2.	42*	0	56426	"BIGDB	31	117	3	0	100	24	17	13
3.	41*	6838342	56443	"BIGDB	24	129	3	0	100	24	17	12
4.	37*	6052933	56396	"BIGDB	43	74	2	0	100	27	14	14
5.	36*	12093888	56405	"BIGDB	26	97	3	0	100	27	14	13



000502

1. CHRYSENE-D12 240 C18.D12

BNA

INTERNAL STD. 1

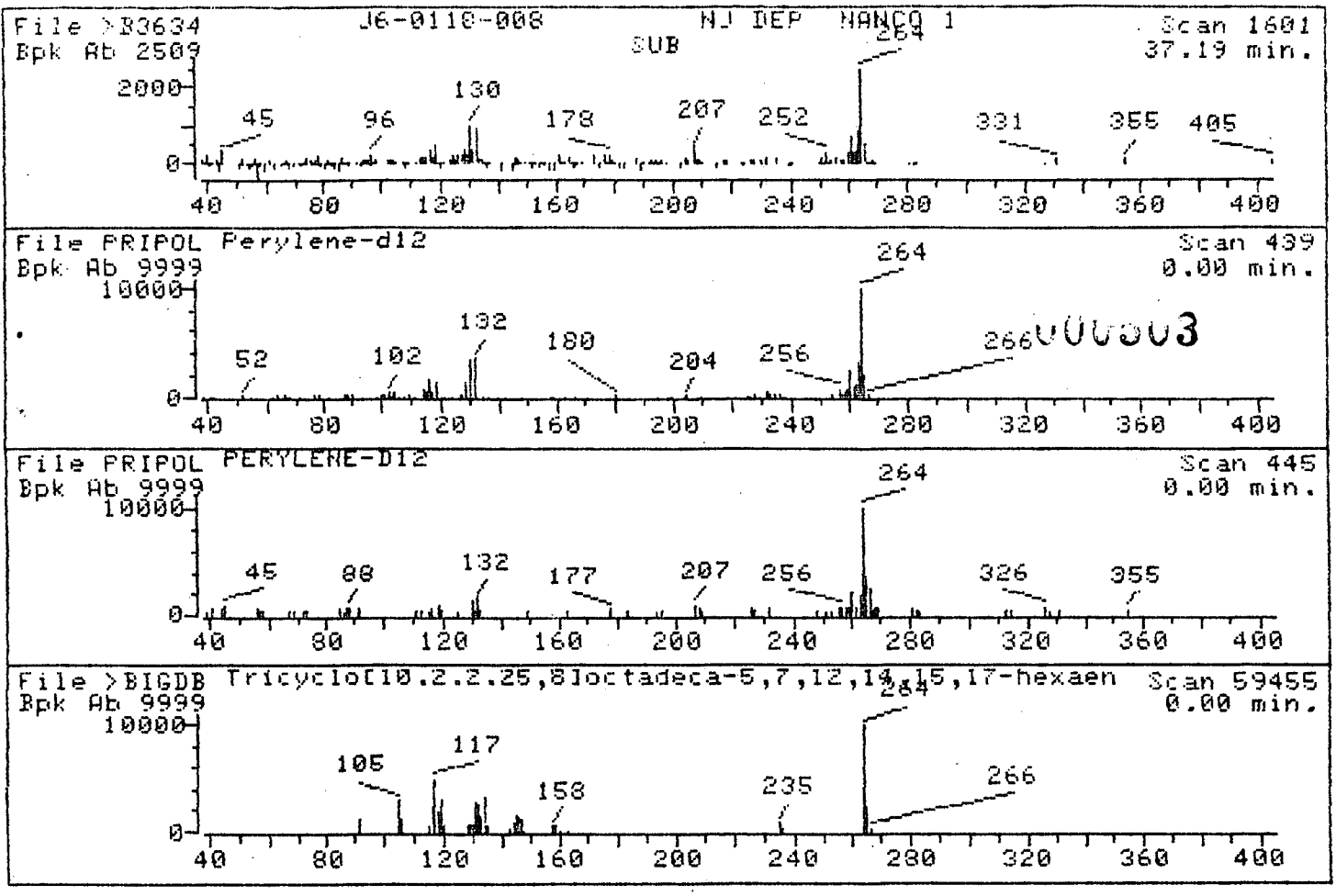
2. Chrysene-d12 240 C18.D12

800

3. 2-Propen-1-one, 1-(2-hydroxyphenyl)-3-(4-hydroxyphenyl)- 240 C15H12O3
4. Benzenamine, 4-(6-methyl-2-benzothiazolyl)- 240 C14H12N2S
5. [1]Benzothieno[4,5-b][1]benzothiophene 240 C14H8S2

Sample file: >B3634 Spectrum #: 1415
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*	444	402	PRIPOL	108	39	0	0	54	27	57	99
2.	89*	438	401	PRIPOL	83	57	0	0	55	38	47	95



000003

1. Perylene-d12 264 C20.D12

800

2. PERYLENE-D12 264 C20.D12

BNA

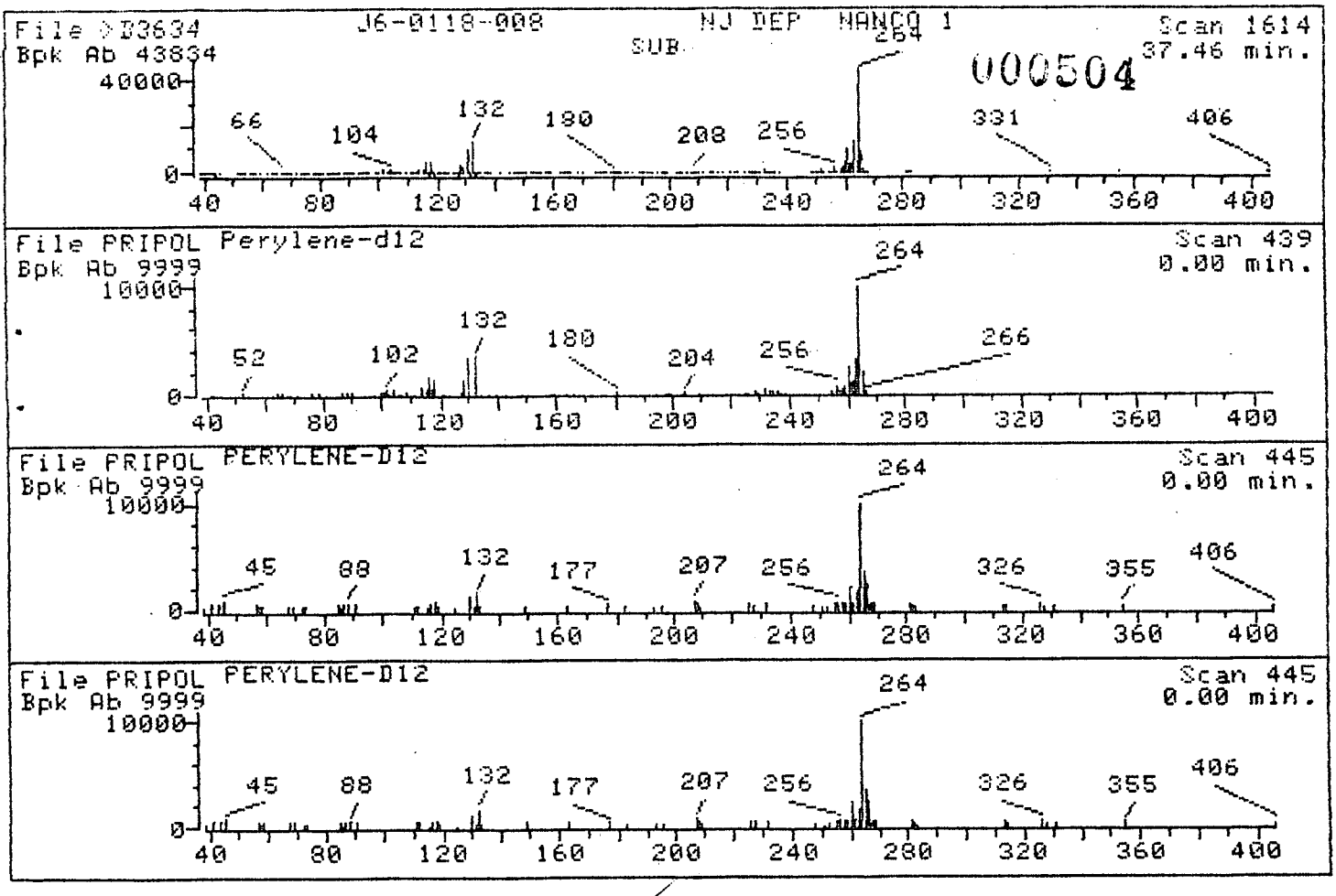
INTERNAL STD. 1

3. Tricyclo[10.2.2.25,8]octadeca-5,7,12,14,15,17-hexaen 264 C20H24
e, 6-ethyl-

4. 5-(4-DIMETHYLAMINOBENZYLIDENE)-RHODANINE 264 C12H12N2OS2

Sample file: >B3634 Spectrum #: 1601
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.	93*	439	418	PRIPOL	114	40	2	0	86	6	68	92
2.	30*	445	419	PRIPOL	38	111	3	0	100	31	12	13
3.	25*	24777386	59455	"BIGDB	26	136	3	0	100	48	7	13



000504

1. Perylene-d12 264 C20.D12

800

2. PERYLENE-D12 264 C20.D12

BNA

INTERNAL STD. 1

Sample file: >B3634 Spectrum #: 1614
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.	98*	439	418	PRIPOL	122	32	1	0	61	20	60	99
2.	41*	445	419	PRIPOL	22	127	3	0	100	23	17	12

NJDEP QC008 BNA 10/7/86 1079

>B3633 J6-0117-008 000505

bis (2Eth hex) phth 240 B ug/L
Di-noct. phth 28

SURR
phenol-d5 32 %
2Fl phenol 30
Nitro benz. 61
2Fl biph. 70
Bromol 58
Terph. 140

TICs b= 40 x 2.22 = 88.8
(127184) Ethene, tetrachloro- (6.312) cx=(579350/864303) xb= 60 JB
Unknown ester (37.722) cx=(667398/1641935) xb= 36 J
" " (37.967) cx=(417655/ ") xb= 22 J

>B3634 J6-0118-008

3,3'-Dichlorobenzidine 3.4 J ug/L

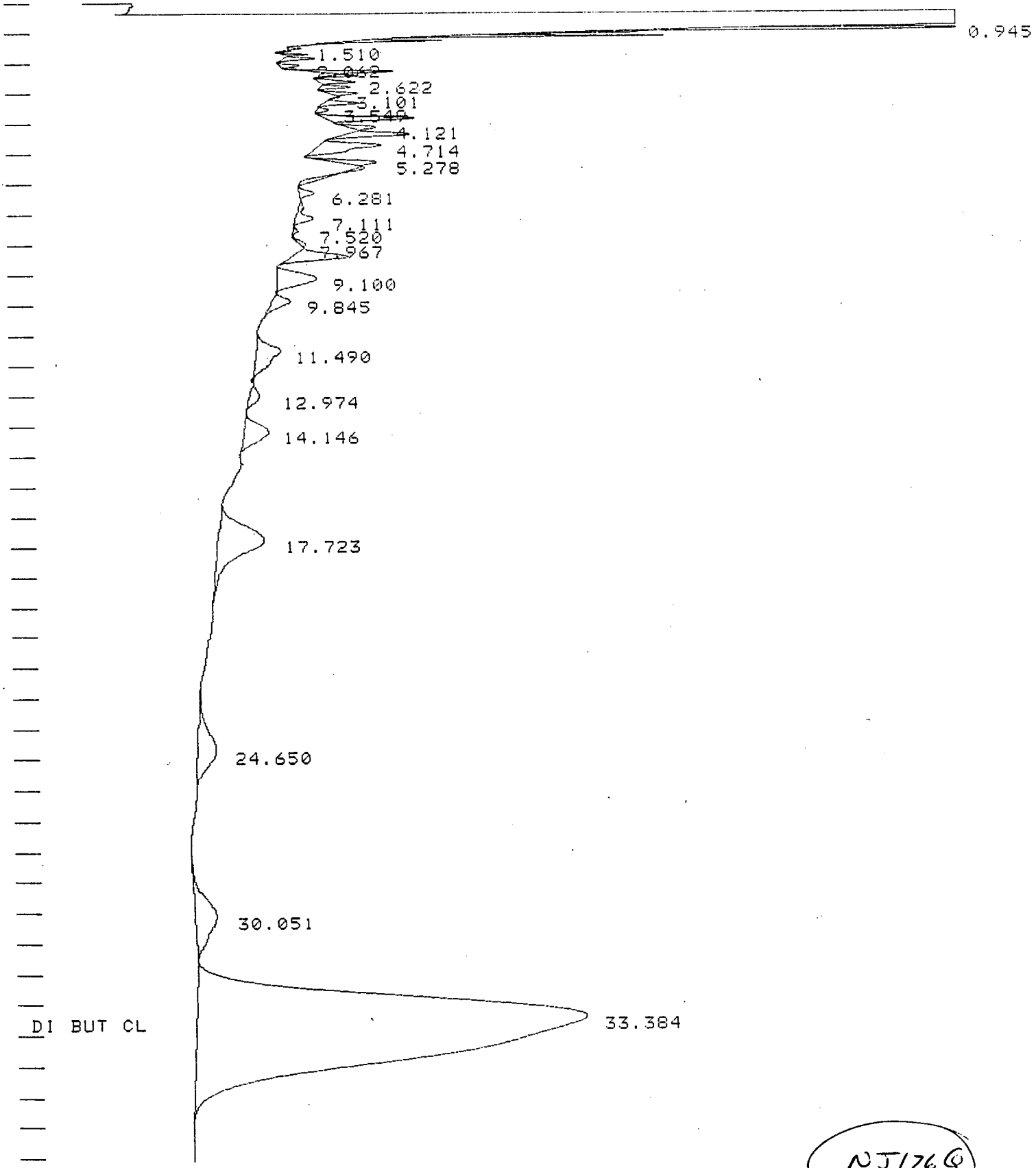
SURR
phenol-d5 33 %
2Fl phenol 32
Nitro benz 64
2Fl biph 73
Bromol 82
Terph 131

TICs b= 40 x 2.22 = 88.8
(127184) Ethene, tetrachloro- (6.295) cx=(705880/1384066) xb= 45 JB

10/21/86

000506

CHART SPEED 0.6 CM/MIN
ATTEN: 4 ZERO: 5% 1 MIN/TICK



SW 4

NJ176Q

varian /sunnyvale, calif. p/n 03-906362-00

8

SW4

(NJ1764)

TITLE: PESTICIDE & PCB ANALYSIS 1:59 2 OCT 86

000567

CHANNEL NO: 2 SAMPLE: J6-0118-008 METHOD: PEST4Q

PEAK NO	PEAK NAME	RESULT %	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		5.1202	0.945		17030	0.03	BB		2.20
2		0.2132	1.033		709	0.03	T		1.50
3		0.7661	1.145		2548	0.03	BB		2.20
4		0.3728	1.280		1240	0.04	BB		2.40
5		0.0607	1.510		202	0.05	BB		3.15
6		0.1145	1.707		381	0.05	BB		3.60
7		0.2501	1.839		832	0.05	BB		6.15
8		0.1717	2.062		571	0.06	BB		7.50
9		0.5547	2.275		1845	0.07	BB	?	5.60
10		0.1371	2.407		456	0.07	BB	?	8.75
11		0.3289	2.622		1094	0.08	BB	?	14.30
12		0.2324	2.790		773	0.08	BB	?	8.80
13		0.2477	3.000		824	0.09	BB	?	11.60
14		0.3310	3.325		1101	0.10	BB	?	10.90
15		0.1022	3.549		340	0.11	BB	?	8.70
16		1.0535	3.837		3504	0.11	BB	?	9.20
17		0.2793	4.121		929	0.12	BB	?	14.20
18		0.7796	4.353		2593	0.13	BB	?	16.50
19		1.4299	4.714		4756	0.14	BB	?	25.50
20		0.5090	5.278		1693	0.16	BB	?	14.60
21		0.2513	6.281		836	0.19	BB	?	20.50
22		0.4985	7.111		1658	0.21	BB	?	17.00
23		0.0643	7.520		214	0.22	BB	?	10.80
24		0.0836	7.967		278	0.24	BB	?	22.90
25		1.2718	8.371		4230	0.25	BB	?	15.05
26		1.5147	9.100		5038	0.27	BB		27.00
27		0.5385	9.845		1791	0.29	BB		16.95
28		1.5189	11.490		5052	0.34	BB	?	40.40
29		0.3942	12.974		1311	0.39	BB		22.95
30		1.3803	14.146		4591	0.42	BB		36.70
31		4.4109	17.723		14671	0.53	BB	?	57.95
32		2.0754	24.650		6903	0.74	BB		66.40
33		2.5583	30.051		8509	0.90	BB		97.05
34	DI BUT CL	70.3845	33.384	0.324	234103	1.00	BB		130.65
TOTALS:		99.9998		0.324	332606				

DETECTED PKS: 37 REJECTED PKS: 3

MULTIPLIER: 1.00000

NOISE: 18.2 OFFSET: -39

RACK: 8 VIAL: 3 INJ: 1

SAVED FILE: PEST4Q014

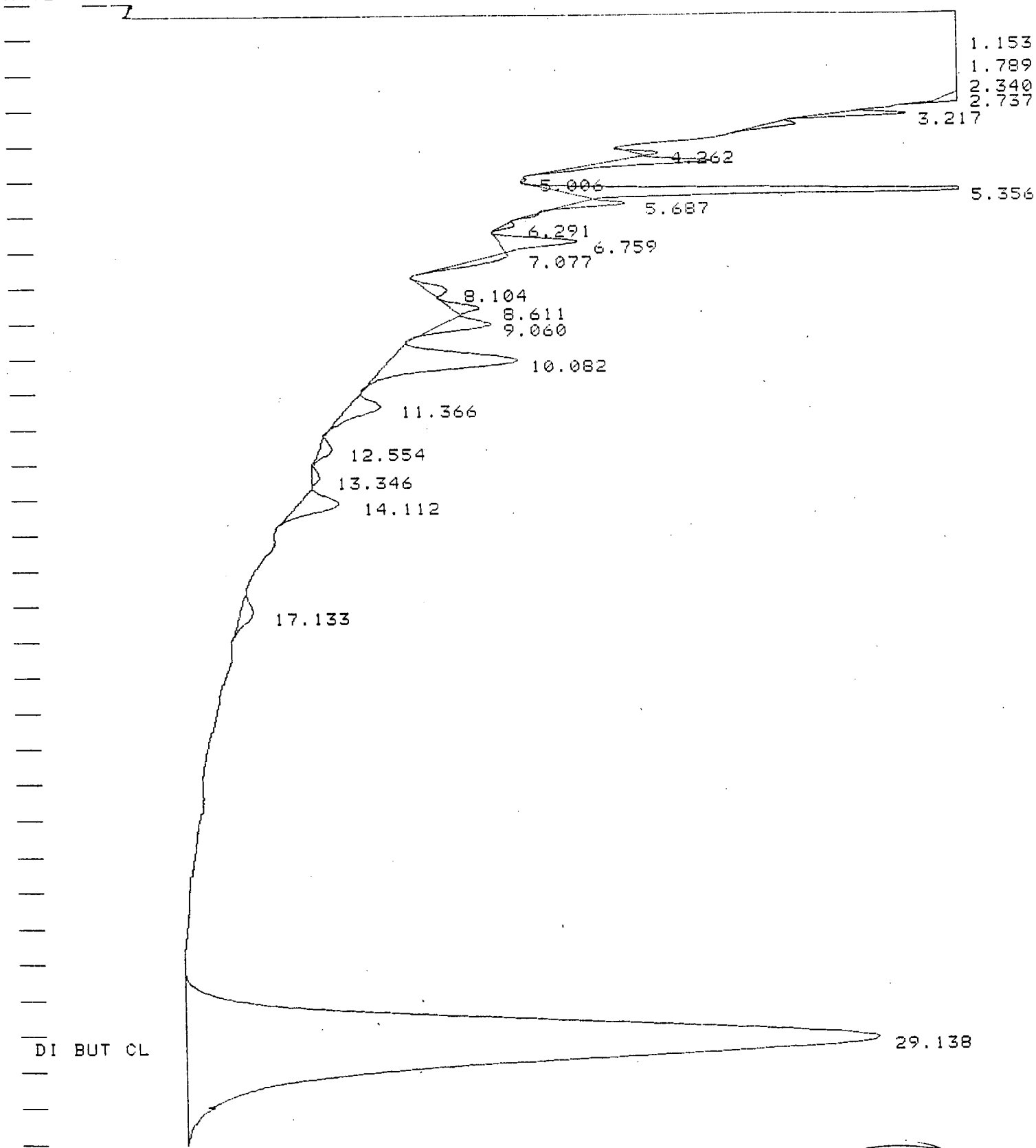
NOTES:
***** NANCO LABS, INC *****
1.95%SP2401+1.5%SP2250 ON 100/120 SUPEL.
LENGTH:2.0M; OD:1/4"; ID:2MM; GLASS
INJ @ 200°C;DET @ 250°C; ECD RANGE: 10
OVEN: 192°C ISOTHERMAL; UL INJECTED:3.0
GC: VARIAN 3700 #2; MODEL #371116-00
CARRIER GAS: 95%AR+5%ME @ 22ML/MIN
ANALYST: S. EASTER

varian /sunnyvale, calif. p/n 03-906362-00

8

000508

CHART SPEED 0.7 CM/MIN
ATTEN: 4 ZERO: 5% 1 MIN/TICK



varian /sunnyvale, calif. p/n 03-906352-00

Sw 4

NJ177C

SW 4 (NJ177C)

TITLE: PESTICIDE & PCB ANALYSIS 14:38 30 SEP 86

CHANNEL NO: 1 SAMPLE: J6-0118-008 METHOD: PEST4C

PEAK NO	PEAK NAME	RESULT %	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		5.4640	1.153		21258	0.04	BB	2.70
2		0.8230	1.426		3202	0.05	BB	2.05
3		0.5398	1.789		2100	0.06	BB	2.05
4		1.2227	2.096		4757	0.07	BB	4.35
5		0.8076	2.340		3142	0.08	BB	5.30
6		0.2475	2.499		963	0.09	BB	2.95
7		2.4781	2.737		9641	0.09	BB	5.95
8		0.7146	3.217		2780	0.11	BB	5.60
9		0.3172	3.496		1234	0.12	BB	6.05
10		0.2054	4.262		799	0.15	BB	? 7.90
11		1.3245	4.505		5153	0.15	BB	10.35
12		6.1308	5.356		23852	0.18	BB	11.05
13		0.5290	5.687		2058	0.19	BB	? 17.60
14		1.4772	6.759		5747	0.23	BB	15.95
15		0.5071	7.077		1973	0.24	BB	? 23.50
16		0.4493	8.104		1748	0.28	BB	? 21.60
17		0.4562	8.611		1775	0.30	BB	? 24.40
18		1.0608	9.060		4127	0.31	BB	? 27.30
19		4.6623	10.082		18139	0.35	BB	26.65
20		1.0711	11.366		4167	0.39	BB	19.70
21		0.3953	12.554		1538	0.43	BB	20.00
22		0.1725	13.346		671	0.46	BB	18.90
23		1.5342	14.112		5969	0.48	BB	24.25
24		0.6141	17.133		2389	0.59	BB	28.80
25	DI BUT CL	66.7960	29.138	0.138	259873	1.00	BB	? 73.40
TOTALS:		100.0000		0.138	389055			

000509

DETECTED PKS: 27 REJECTED PKS: 2

MULTIPLIER: 1.00000

NOISE: 12.1 OFFSET: -32

RACK: 3 VIAL: 4 INJ: 1

SAVED FILE: PEST4C116

ERRORS:
ADC OVERANGE

NOTES:
***** NANCO LABS, INC *****
3% SP2100 ON 100/120 SUPELCOPORT
LENGTH:2.0M; OD:1/4"; ID:2MM; GLASS
INJ @ 200°C;DET @ 250°C; ECD RANGE: 10
OVEN: 192°C ISOTHERMAL; UL INJECTED: 3.0
GC: VARIAN 3700 #2; MODEL #371116-00
CARRIER GAS: 95%AR+5%ME @ 30ML/MIN
ANALYST: S. EASTER

varian /sunnyvale, calif.p/n 03-906362-00