U.S. Environmental Protection Agency Region V

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Lab Data Reference Sheet

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 9-10-86

SUBJECT: Precision and Accuracy of Analyses for Data Set SF 3413
Site: AMERICAN CHEMICAL SERVICE

FROM: Steve Parker,
CRL QC Coordinator

TO: Data User: _____

The Region V Central Regional Laboratory has completed its analyses of 7 (number) WATER (matrix type) samples for the parameters listed on the attached sheet. The discrete values reported on the result forms should be considered to be of the precision and accuracy levels listed.

PRECISION is a measure of reproducibility or the closeness with which individual measurements of the same property, under similar conditions agree with each other. It is expressed as the relative percent difference (RPD) or the absolute concentration difference (R') between duplicate analyses. The limit acceptable at the time of analysis is stated. QC data within these limits indicate that the analysis was in control for that set of data.

ACCURACY is a measure of the closeness of an individual measurement to the expected value. It can be expressed as percent recovery of a known spike or standard concentration, or as percent bias which is the deviation from the true value. The limits applicable at the time of analysis are stated. A 95% confidence interval means that 95% of the time, percent recovery will fall between those limts.

Attachment

TRANSMITTED BY
SEP 11 1986
U.S. EPA CENTRAL
REGIONAL LAB

PRECISION AND ACCURACY STATEMENT

Data Set: SF 3413 Matrix: WATER

Site Name: AMERICAN CHEMICAL SERVICE

	PRECISION			ACCURACY		
Parameter	RPD R'	Limit	Method of Quality Control	% Recovery % Bias	Limit	Method of Quality Control
ABN ACID FRACTION	1-12%	≤ 35%	SURROGATE SPIKES	36-101	10-107%	SURROGATE SPIKES
ABN BASE NEUTRAL	4-15%	"	"	45-107	25-122%	"

COMMENT:

QC FLAGS:

American Chemical Service
IND-016-360-165
ACTIVITY#C41100

SUPERFUND

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH WMD: SHE-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215822	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
865[redacted]01S01	5-61563-64-67-68-74+76	✓			
865[redacted]01D01	5-61571-72	✓			
865[redacted]01R01	5-61587-88	✓			
865[redacted]01S02	5-61555-56	✓			
865[redacted]01S03	5-61611-12	✓			
865[redacted]01S04	5-61593-94	✓			
865[redacted]01S05	5-61603-04	✓			
86S501S01	5-61565+69+77		✓		
86S501D01	5-61573		✓		
86S501R01	5-61589		✓		
86S501S02	5-61557		✓		
86S501S03	5-61613		✓		
86S501S04	5-61591		✓		
86S501S05	5-61605		✓		
			SK 8-27-86		
			JF 9/2/86		
			9/10/86		

FSF Sample to CRL

SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S01 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE

STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S01

ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	51	SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
SLC - SUSPECTED LABORATORY CONTAMINANT
SFC - SUSPECTED FIELD CONTAMINANT

* THESE TWO PARAMETERS ARE REPORTED AS A TOTAL.
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VALUES IN PARENTHESES ARE ESTIMATES. ACTUAL VALUES ARE BEING DETERMINED AT THIS TIME.

SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501D01 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501D01 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE		26 SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
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U.S. EPA - REGION V, CENTRAL REGIONAL LABORATORY
536 SOUTH CLARK STREET, CHICAGO, ILLINOIS 60605

SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE

STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501R01

ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501R01 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	19	SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
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SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE

STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S02

ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S02 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE		39 SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
SLC - SUSPECTED LABORATORY CONTAMINANT
SFC - SUSPECTED FIELD CONTAMINANT

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U.S. EPA - REGION V, CENTRAL REGIONAL LABORATORY
536 SOUTH CLARK STREET, CHICAGO, ILLINOIS 60605

SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE — STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S03 — ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S03 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	32	SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
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536 SOUTH CLARK STREET, CHICAGO, ILLINOIS 60605

SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE — STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S04 — ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S04 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE		28 SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
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U.S. EPA - REGION V, CENTRAL REGIONAL LABORATORY
536 SOUTH CLARK STREET, CHICAGO, ILLINOIS 60605

SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S05 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: 86S501S05 ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	65	SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
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QUALITY CONTROL SHEET
TOXIC ORGANICS SECTION: BASE/NEUTRAL/ACIDIC

STUDY NAME Am. Chem. Service

STUDY NUMBER SF-3413

DATE 8-21-86

ACTIVITY NUMBER C41100

ANALYST S. Kim

FRN	SAMPLE NUMBER	MATRIX	AMOUNT	DILUTIONS	FINAL VOL. (AFT. DILU	INTERNAL STDS. (b.p. areas) Conc.: ug/ml				
						[redacted]	[redacted]	[redacted]	D4-1,4-Cl_2B	D10-Phen	D_{12}-Peryl
LS221	L36 Blank	W			1ml				121699	243808	30977
LS223	Tox Std								163803	1P3628	17367
LS225	Mat Std								152141	302035	54272
LS235	868501501								119812	214824	21080
236	" D01								119521	217316	22190
237	" R01								100596	219091	33433
238	" S02								117439	215939	21576
239	" S03								102401	210444	45239
240	" S04								110281	261192	22723
241	" S05								132809	227921	22322

MS Conditions

Mass Range: 45 to 445

Scan cycle:

High Voltage:

Operator: L.J. SCHMIDT

COMMENTS:

SEMIVOLATILES ORGANIC ANALYSIS DATA SHEET

STUDY NAME: AM. CHEM. SERVICE STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: LAB BLANK ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
1.	111-44-4	BIS(2-CHLOROETHYL)ETHER	1.5	U
2.	108-95-2	PHENOL	2.0	U
3.	95-57-8	2-CHLOROPHENOL	2.0	U
4.	541-73-1	1,3-DICHLOROBENZENE	2.0	U
5.	106-46-7	1,4-DICHLOROBENZENE	2.0	U
6.	95-50-1	1,2-DICHLOROBENZENE	2.5	U
7.	100-51-6	BENZYL ALCOHOL	2.0	U
8.	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2.5	U
9.	95-48-7	2-METHYLPHENOL	1.0	U
10.	67-72-1	HEXACHLOROETHANE	2.0	U
11.	621-64-7	N-NITROSODIPROPYLAMINE	1.5	U
12.	98-95-3	NITROBENZENE	2.5	U
13.	106-44-5	4-METHYLPHENOL	1.0	U
14.	78-59-1	ISOPHORONE	2.5	U
15.	88-75-5	2-NITROPHENOL	2.0	U
16.	105-67-9	2,4-DIMETHYLPHENOL	2.0	U
17.	111-91-1	BIS(2-CHLOROETHOXY)METHANE	2.5	U
18.	120-83-2	2,4-DICHLOROPHENOL	2.0	U
19.	120-82-1	1,2,4-TRICHLOROBENZENE	2.0	U
20.	91-20-3	NAPHTHALENE	2.0	U
21.	106-47-8	4-CHLOROANILINE	2.0	U
22.	87-68-3	HEXACHLOROBUTADIENE	2.5	U
23.	65-85-0	BENZOIC ACID	(30)	U
24.	91-57-6	2-METHYLNAPHTHALENE	2.0	U
25.	59-50-7	4-CHLORO-3-CRESOL	1.5	U
26.	77-47-4	HEXACHLOROCYCLOPENTADIENE	2.0	U
27.	88-06-2	2,4,6-TRICHLOROPHENOL	1.5	U
28.	95-95-4	2,4,5-TRICHLOROPHENOL	1.5	U
29.	91-58-7	2-CHLORONAPHTHALENE	1.5	U
30.	208-96-8	ACENAPHTHYLENE	1.5	U
31.	131-11-3	DIMETHYL PHTHALATE	1.5	U
32.	606-20-2	2,6-DINITROTOLUENE	1.0	U
33.	83-32-9	ACENAPHTHENE	1.5	U
34.	99-09-2	3-NITROANILINE	2.5	U
35.	132-64-9	DIBENZOFURAN	1.0	U

STUDY NAME: AM. CHEM. SERVICE

STUDY NUMBER: SF-3413

LAB SAMPLE I.D. NO: LAB BLANK

ACTIVITY CODE: C41100

	CAS #	COMPOUND	CONCENTRATION (UG/L)	
36.	51-28-5	2,4-DINITROPHENOL	(15)	U
37.	121-14-2	2,4-DINITROTOLUENE	1.0	U
38.	86-73-7	FLUORENE	1.0	U
39.	100-02-7	4-NITROPHENOL	1.5	U
40.	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1.0	U
41.	84-66-2	DIETHYL PHTHALATE	1.0	U
42.	534-52-1	4,6-DINITRO-2-METHYLPHENOL	(15)	U
43.	86-30-6	N-NITROSODIPHENYLAMINE *	1.5	U
	122-39-4	DIPHENYLAMINE *		
44.	100-01-6	4-NITROANILINE	3.0	U
45.	101-55-3	4-BROMOPHENYLPHENYL ETHER	1.5	U
46.	118-74-1	HEXACHLOROBENZENE	1.5	U
47.	87-86-5	PENTACHLOROPHENOL	2.0	U
48.	85-01-8	PHENANTHRENE	1.0	U
49.	120-12-7	ANTHRACENE	2.5	U
50.	84-74-2	DI-N-BUTYL PHTHALATE	2.0	U
51.	206-44-0	FLUORANTHENE	1.5	U
52.	129-00-0	PYRENE	1.5	U
53.	85-68-7	BUTYLBENZYL PHTHALATE	3.5	U
54.	218-01-9	CHRYSENE **	1.5	U
55.	56-55-3	BENZO(A)ANTHRACENE **		
56.	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	28	SLC
57.	117-84-0	DI-N-OCTYL PHTHALATE	1.5	U
58.	205-99-2	BENZO(B)FLUORANTHENE ***	1.5	U
59.	207-08-9	BENZO(K)FLUORANTHENE ***		
60.	50-32-8	BENZO(A)PYRENE	2.0	U
61.	193-39-5	INDENO(1,2,3-CD)PYRENE	3.5	U
62.	53-70-3	DIBENZO(A,H)ANTHRACENE	2.5	U
63.	191-24-2	BENZO(GHI)PERYLENE	4.0	U
64.	88-74-4	2-NITROANILINE	1.0	U

CODES: U --- COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
SLC - SUSPECTED LABORATORY CONTAMINANT
SFC - SUSPECTED FIELD CONTAMINANT

* THESE TWO PARAMETERS ARE REPORTED AS A TOTAL.
** THESE TWO PARAMETERS ARE REPORTED AS A TOTAL.
*** THESE TWO PARAMETERS ARE REPORTED AS A TOTAL.

VALUES IN PARENTHESES ARE ESTIMATES. ACTUAL VALUES ARE BEING DETERMINED AT THIS TIME.

QUALITY CONTROL SHEET
TOXIC ORGANICS SECTION: BASE/NEUTRAL/ACIDIC

STUDY NAME Am. Chem. Service ACTIVITY NUMBER C41100 DATE 8-21-86

STUDY NUMBER SF-3413 MATRIX Water ANALYST S. Ka

SURROGATE SPIKE PERCENT RECOVERY

FRN	SAMPLE NUMBER	D5-PHENOL	2-Fluoro-PHENOL	2,4,6-TRIPHENOL	D5-NITRO-BENZENE	2-FLUORO BIPHENYL	D-14-TERPHENY
45221	Lab Blank	55	36	89	47	79	101
235	86S501501	56	42	99	65	91	91
236	" D01	59	48	99	61	88	79
237	" R01	58	38	94	50	93	110
238	" S02	50	39	91	60	87	82
239	" S03	52	38	95	46	85	116
240	" S04	55	47	101	45	85	107
241	" S05	41	32	69	48	91	84

SF-3413: AM. CHEM. SERVICE
8-29-86

CRL SAMPLE NUMBER LAB BLANK

(UNITS ARE UG/L)

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONCENTRATION
PROPANOIC ACID, 2-METHYL-, 1-(1,1-DIMETHYLETHYL)-2-METHYL-1,3-PROPANEDIYL ESTER	8
7-OXABICYCLO[4.1.0]HEPTANE	4.2
2-CYCLOHEXEN-1-ONE	1.6

QUANT REPORT

Operator ID: LARRY
Output File: ^LS223::AQ
Data File: >LS223::D5
Name: TOXSTD 50PPM
Misc: 8-21-86

Quant Rev: 4
Quant Time: 860828 12:49
Injected at: 860821 10:12
Dilution Factor: 1.00

BTL# 3

ID File: GASK11::D2
Title: COPY FROM GASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.17	305	163803	50.60	PPB	03
2)	PHENOL	8.35	338	307505	50.00	PPB	100
3)	BIS(2-CHLOROETHYL)ETHER	8.54	351	301772	50.00	PPB	100
4)	2-CHLOROPHENOL	8.54	351	75356	50.00	PPB	00
5)	1,3-DICHLOROBENZENE	0.23	300	251003	50.00	PPB	06
6)	1,4-DICHLOROBENZENE	0.23	300	251003	50.00	PPB	07
7)	1,2-DICHLOROBENZENE	0.04	410	237032	50.00	PPB	06
8)	BENZYL ALCOHOL	10.66	400	96666	50.00	PPB	100
9)	2-METHYLPHENOL	10.66	400	222751	50.00	PPB	04
10)	BIS(2-CHLOROISOPROPYL)ETHER	10.66	400	63885	50.00	PPB	03
11)	HEXACHLOROETHANE	11.20	537	08834	50.00	PPB	00
12)	4-METHYL PHENOL	11.30	550	286651	50.00	PPB	05
13)	N-NITROSODIPROPYL AMINE	11.38	540	153576	50.00	PPB	02
14)	*D10-PHENANTHRENE	25.66	1546	183628	50.10	PPB	07

[illegible]	[illegible]	11.81	570	210003	50.00	PPB	87
16)	ISOPHORONE	12.06	660	457453	50.00	PPB	94
17)	2-NITROPHENOL	13.27	681	127005	50.00	PPB	74
18)	2,4-DIMETHYL PHENOL	13.81	710	187416	50.00	PPB	87
19)	BIS(2-CHLOROETHOXY)METHANE	14.27	751	320650	50.00	PPB	98
20)	2,4-DICHLOROPHENOL	14.47	765	165812	50.00	PPB	93
21)	BENZOIC ACID	14.78	787	60031	636.08	PPB	100
22)	1,2,4-TRICHLOROBENZENE	14.76	785	178482	50.00	PPB	93
23)	NAPHTHALENE	15.00	802	687646	50.00	PPB	98
24)	4-CHLOROANILINE	15.57	842	248565	50.00	PPB	95
25)	HEXACHLOROBUTADIENE	15.03	867	87715	50.00	PPB	80
26)	4-CHLORO-3-METHYLPHENOL	17.82	999	146005	50.00	PPB	83
27)	2-METHYLNAPHTHALENE	17.03	1007	402523	50.00	PPB	92
28)	HEXACHLOROCYCLOPENTADIENE	18.70	1067	83243	50.00	PPB	94
29)	2,4,6-TRICHLOROPHENOL	19.31	1103	86774	50.00	PPB	88
30)	2,4,5-TRICHLOROPHENOL	19.31	1103	86814	50.00	PPB	95
31)	2-CHLORONAPHTHALENE	19.65	1127	314080	50.00	PPB	96
32)	2-NITROANILINE	20.26	1169	95229	50.00	PPB	85
33)	ACENAPHTHYLENE	21.00	1221	420191	50.00	PPB	97
34)	DIMETHYLPHTHALATE	21.03	1223	244211	50.00	PPB	95
35)	2,6-DINITROTOLUENE	21.22	1236	61206	50.00	PPB	87
36)	ACENAPHTHENE	21.60	1263	285850	50.00	PPB	94
37)	3-NITROANILINE	21.58	1261	56102	50.00	PPB	90
38)	2,4-DINITROPHENOL	21.88	1282	15048	50.00	PPB	100
39)	DIBENZOFURAN	22.08	1296	346300	50.00	PPB	99
40)	2,4-DINITROTOLUENE	22.33	1314	50339	50.00	PPB	86
41)	4-NITROPHENOL	22.00	1297	95583	50.00	PPB	100
42)	FLUORENE	23.00	1367	249910	50.00	PPB	97
43)	DIETHYLPHTHALATE	23.15	1371	197261	50.00	PPB	92
44)	4-NITROANILINE	23.41	1389	26298	50.00	PPB	100
45)	2-METHYL-4,6-DINITROPHENOL	23.50	1395	19185	50.00	PPB	95
46)	4-[illegible]-CHLOROPHENYL PHENYL ETHER	23.17	1372	114139	50.00	PPB	99

	Compound	R.T.	Scan#	Area	Conc	Units	q
47)	DIPHENYLAMINE	23.57	1400	6200	50.00	PPB	90
48)	4-BROMOPHENYLPHENYL ETHER	24.52	1466	51579	50.00	PPB	90
49)	HEXACHLOROBENZENE	24.85	1489	52503	50.00	PPB	93
50)	PENTACHLOROPHENOL	25.38	1526	21739	50.00	PPB	94
51)	PHENANTHRENE	25.72	1550	217264	50.00	PPB	97
52)	ANTHRACENE	25.72	1550	217264	50.00	PPB	93
53)	DI-N-BUTYLPHTHALATE	27.50	1674	181276	50.00	PPB	98
54)	FLUORANTHENE	28.87	1770	132287	50.00	PPB	96
55)	PYRENE	28.87	1770	132287	50.00	PPB	96
56)	*D12-PERYLENE	30.26	2494	17367	50.00	PPB	100
57)	BUTYL BENZYL PHTHALATE	31.32	1941	36274	50.00	PPB	100
58)	BENZO(A)ANTHRACENE	32.76	2041	57682	50.00	PPB	95
59)	CHRYSENE	32.76	2041	57682	50.00	PPB	94
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.17	2070	42735	50.00	PPB	100
61)	DI-N-OCTYLPHTHALATE	35.66	2243	65830	50.00	PPB	93
62)	BENZO(B)FLUORANTHENE	37.19	2350	52802	50.00	PPB	92
63)	BENZO(K)FLUORANTHENE	37.19	2350	52802	50.00	PPB	74
64)	BENZO(A)PYRENE	38.04	2472	54158	50.00	PPB	98
65)	INDENO[1,2,3-CD]PYRENE	47.54	3071	68676	50.00	PPB	92
66)	DIBENZO(A,H)ANTHRACENE	47.88	3095	25153	50.00	PPB	100
67)	BENZO(GHI)PERYLENE	49.08	3241	28600	50.00	PPB	91

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY Quant Rev: 4 Quant T: [illegible]

Output File: ^LS221::AQ Injected at: 860821 17:03
Data File: >LS221::D5 Dilution Factor: 1.00
Name: SF-3414 LAB BLANK
Misc: 8-21-86 1000,1:50 BTL# 1

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.13	303	121600	50.60	PPB	94
2)	[redacted]	8.28	334	4565	1.00	PPB	100
14)	*D10-PHENANTHRENE	25.63	1547	243808	50.10	PPB	97
23)	[redacted]	14.03	700	1047	.06	PPB	90
35)	[redacted]	21.47	1256	26370	16.22	PPB	66
54)	[redacted]	20.41	1811	834	.24	PPB	92
56)	*D12-PERYLENE	30.25	2407	30926	50.00	PPB	100
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.14	2071	43230	28.41	PPB	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY Quant Rev: 4 Quant Time: 860828 14:38
Output File: ^LS235::AQ Injected at: 860822 08:04
Data File: >LS235::D6 Dilution Factor: 1.00
Name: SF-3413 86S501S01
Misc: 8-21-86 2278,1:100 BTL#15

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.00	301	110812	50.60	PPB	95
2)	[redacted]	8.26	333	8741	1.94	PPB	100
14)	*D10-PHENANTHRENE	25.62	1546	214824	50.10	PPB	96
53)	[redacted]	27.44	1673	648	.15	PPB	87
56)	*D12-PERYLENE	30.24	2406	21130	50.00	PPB	100
57)	[redacted]	32.21	2006	644	.73	PPB	100
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.14	2071	122107	117.37	PPB	100

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* Compound is ISTD

QUANT REPORT

Operator ID: LARRY Quant Rev: 4 Quant Time: 860828 14:43
Output File: ^LS236::AQ Injected at: 860822 09:08
Data File: >LS236::D6 Dilution Factor: 1.00
Name: SF-3413 86S501D01
Misc: 8-21-86 2305,1:100 BTL#16

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q

1)	*D4-1,4-DICHLOROBENZENE	9.11	300	110521	50.00	PPB	97
2)	[redacted]	8.27	332	13515	3.01	PPB	100
14)	*D10-PHENANTHRENE	25.63	1545	217316	50.10	PPB	97
35)	[redacted]	21.45	1253	26651	18.40	PPB	65
56)	*D12-PERYLENE	30.25	2405	22203	50.00	PPB	100
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.14	2060	68000	62.81	PPB	100

* Compound is ISTD

26

QUANT REPORT

Operator ID: LARRY
Output File: ^LS237::AQ
Data File: >LS237::D6
Name: SF-3413 86S501R01
Misc: 8-21-86 2238,1:100

Quant Rev: 4 Quant Time: 860828 14:50
Injected at: 860822 10:13
Dilution Factor: 1.00

BTL#17

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.00	300	100501	50.60	PPB	97
2)	[redacted]	8.27	333	6780	1.80	PPB	100
14)	*D10-PHENANTHRENE	25.62	1544	210001	50.10	PPB	96
16)	[redacted]	12.78	648	1040	.10	PPB	95
17)	[redacted]	13.17	675	1030	.34	PPB	99
19)	[redacted]	15.10	810	2031	.38	PPB	74
21)	[redacted]	14.31	755	922	7.03	PPB	100
23)	[redacted]	14.86	703	3687	.22	PPB	97
27)	[redacted]	17.85	1002	886	.00	PPB	94
35)	[redacted]	21.44	1253	22887	15.67	PPB	64
43)	[redacted]	23.00	1368	5004	1.06	PPB	88
53)	[redacted]	27.45	1672	9327	2.16	PPB	96
56)	*D12-PERYLENE	30.25	2405	33433	50.00	PPB	100
57)	[redacted]	31.20	1040	630	.45	PPB	100
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.14	2060	60407	42.24	PPB	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS238::AQ
Data File: >LS238::D6
Name: SF-3413 86S501S02
Misc: 8-21-86 2334,1:100

Quant Rev: 4 Quant Time: 860828 14:57
Injected at: 860822 11:17
Dilution Factor: 1.00

BTL#18

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	302	117430	50.60	PPB	94
2)	[redacted]	8.28	334	4200	.05	PPB	100
14)	*D10-PHENANTHRENE	25.62	1546	215030	50.10	PPB	96
23)	[redacted]	14.86	704	1270	.08	PPB	95
56)	*D12-PERYLENE	30.25	2407	21576	50.00	PPB	100
57)	[redacted]	32.21	2006	533	.50	PPB	100

60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.15	2072	08000	01.35 PPB	100

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* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS230::AQ
Data File: >LS230::D6
Name: SF-3413 86S501S03
Misc: 8-21-86 2337,1:100

Quant Rev: 1 Quant Time: 860828 15:02
Injected at: 860822 12:22
Dilution Factor: 1.00

BTL#10

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.10	301	102401	50.60	PPB	03
2)	[redacted]	8.28	334	5482	1.43	PPB	100
14)	*D10-PHENANTHRENE	25.62	1546	250444	50.10	PPB	07
23)	[redacted]	14.85	703	1070	.06	PPB	81
53)	[redacted]	27.44	1673	1138	.23	PPB	03
56)	*D12-PERYLENE	30.27	2408	45230	50.00	PPB	100
57)	[redacted]	32.23	2007	754	.40	PPB	100
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.15	2071	165570	~~74~~.37	PPB	100

* Compound is ISTD

32

QUANT REPORT

Operator ID: LARRY
Output File: ^LS240::AQ
Data File: >LS240::D6
Name: SF-3413 86S501S04
Misc: 8-21-86 2240,1:100

Quant Rev: 1 Quant Time: 860828 15:07
Injected at: 860822 13:26
Dilution Factor: 1.00

BTL#20

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.10	301	110281	50.60	PPB	07
2)	[redacted]	8.28	334	5024	1.43	PPB	100
14)	*D10-PHENANTHRENE	25.63	1546	266102	50.10	PPB	07
23)	[redacted]	14.85	703	1100	.06	PPB	75
35)	[redacted]	21.45	1254	25741	14.51	PPB	61
56)	*D12-PERYLENE	30.26	2407	21464	50.00	PPB	100
57)	[redacted]	31.20	1041	718	.80	PPB	100
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.15	2071	65828	~~62~~.32	PPB	100

* Compound is ISTD

27

QUANT REPORT

Operator ID: LARRY
Quant Rev: 1 Quant Time: 860828 15:11

Data File: >LS241::D8
Name: SF-3413 86S501S05
Misc: 8-21-86 2341,1:100

Injected at: 860822 11:30
Dilution Factor: 1.00

BTL#21

ID File: QASK11::D2
Title: COPY FROM QASK2: T2 IS 280
Last Calibration: 860828 12:48

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	392	132909	50.60	PPB	94
2)	[redacted]	8.28	334	3063	.61	PPB	100
14)	*D10-PHENANTHRENE	25.62	1546	227071	50.10	PPB	96
56)	*D12-PERYLENE	30.27	2408	22386	50.00	PPB	100
57)	[redacted]	32.22	2007	686	.73	PPB	100
60)	BIS(2-ETHYLHEXYL)PHTHALATE	33.16	2072	166358	451.00	PPB	100

* Compound is ISTD

65

Form # 4

ENVIRONMENTAL PROTECTION AGENCY, REGION V BASIC DATA FORM:

Group #: _____ Data Set: SF-3413 SF-3414 SF-3421 Sample Type: WATER

ISTD-Conc.:

Sample #	Sample Amount (ml)	Final Volume	Solvent Extract. CH_2Cl_2	Dilution with Hexane 1 st.	2 nd.	3 rd.	Vol. Conc. Extr.	Volume to Pest.	Toxic
86FB08 R13	2,317		12x60				1ml	—	1ml
86FB08 #91	2,348		↓				↓	—	↓
86FL08 R12	2,310							—	
86FL08 #85	2,358							—	
86FL08 #86	2,350							—	
86FL08 #80	2,300							—	
86FL08 D86	2,290		↓					—	
MAT SPK #87	1000		6x60					—	
MAT SPK DUP #87	1000		↓					—	
METHOD BLANK	1000		↓					—	
86SS01 #01	2,278		12x60					—	
86SS01 D01	2,395		↓					—	
86SS01 R01	2,238							—	
86SS01 #02	2,334		↓				↓	—	↓

Date Extracted: 8/13/86 - 8/14/86 Chemist: S. ROSSBACH K Gunter Toxic Ext. Received by

Gen. Org. Ext. " "

Analytical Condition:

GC Conditions:

Column 1) 3%-2100 on Supercoport 10 x 1/8" /1.95%

2) 1.5% SP-2250/ SP-2401 "

T1 _____ Hold _____ Min.

T2 _____ _____ Min.

Rate: _____ C

Carrier Gas: _____; Flow rate: _____

GC Operator & Date: _____

MS Conditions:

Mass Range: _____ to _____

Scan Cycle: _____

High Voltage: _____

Confirmation: _____

Operator & Date: _____

Sample Clean-up and Remarks: ADD MATRIX SPIKE 1:30 DILUTION 4/16/86 0.5 ml ADDED; B/N MATRIX SPIKING SOLUTION • 10/1/85 0.5 ml ADDED; 6 SURROGATES 6/16/86 100 µl ADDED TO SAMPLES; 50 µl ADDED TO METHOD BLANK, MAT SPK + DUP.

PAGE # 2

Form # 4

ENVIRONMENTAL PROTECTION AGENCY, REGION V BASIC DATA FORM:

Group #: _____ Data Set: SF-3413 SF-3414 SF-3421 Sample Type: WATER

ISTD-Conc.:

Sample #	Sample Amount (ml)	Final Volume	Solvent Extract. CH_2Cl_2	Dilution with Hexane 1 st.	2 nd.	3 rd.	Vol. Conc. Extr.	Volume to Pest.	Toxic
865501 \$03	2,337		12X60				1ml	—	1ml
865501 \$04	2,240		↓				↓	—	↓
865501 \$05	2344		↓				↓	—	↓

Date Extracted: 8/13/86 8/14/86 Chemist: S. ROSBACH K Gunter Toxic Ext. Received by Gen. Org. Ext. " "

Analytical Condition:

GC Conditions:

Column 1) 3%-2100 on Supercoport 10 x 1/8" 1.95%
2) 1.5% SP-2250/ SP-2401 "

T1 _____ Hold _____ Min.

T2 _____ _____ Min.

Rate: _____ C

Carrier Gas: _____; Flow rate: _____

GC Operator & Date: _____

MS Conditions:

Mass Range: _____ to _____

Scan Cycle: _____

High Voltage: _____

Confirmation: _____

Operator & Date: _____

Sample Clean-up and Remarks:

Matrix Spike Percent Recovery
BNA Organic Analysis

Study name N. W. Berrien Study Number SF-3421

Compounds	Sample #	Sample #	RPD
	86FL08S87MS	86FL08S87MSD	
Phenol	37	38	3
2-Chlorophenol	83	87	5
1,4-Dichlorobenzene	83	83	0
Benzyl Alcohol	27	18	40
N-Nitrosodipropylamine	87	87	0
1,2,4-Trichlorobenzene	84	84	0
4-Chloroaniline	80	82	2
p-chloro-m-cresol	87	89	2
Acenaphthene	101	105	4
Dibenzofuran	100	104	4
2,4-Dinitrotoluene	97	98	1
4-Nitrophenol	64	64	0
Pentachlorophenol	84	90	7
Di-n-butylphthalate	93	92	1
Pyrene	85	84	1

* Original data are in the folder of data set SF-3421

GC/MS TUNING AND MASS CALIBRATION

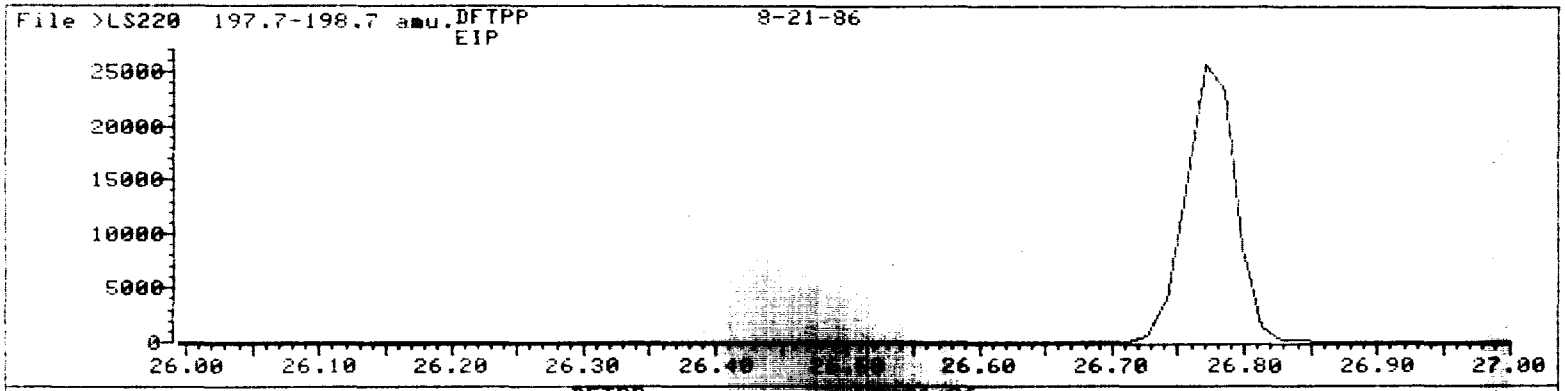
Decafluorotriphenylphosphine (DFTPP)

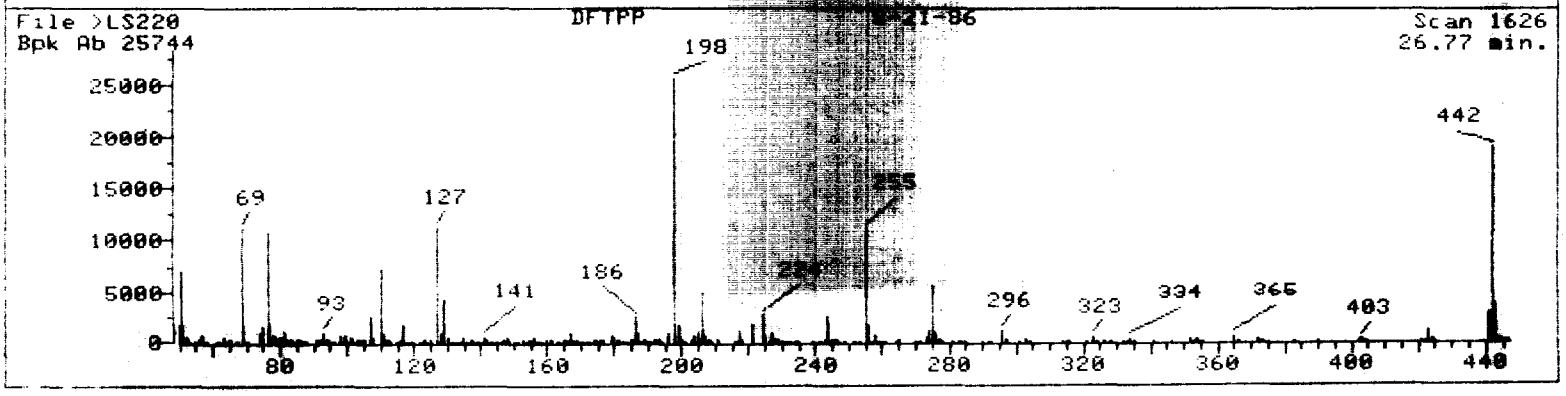
USEPA REGION 5: CENTRAL REGIONAL LAB. Data Set No. SF-3413

Instrument ID #1 Date / Time 8/21/86 9:16

Lab ID >LS220::D5 Data Release Authorized By: _____.

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	27.40 BAD
68	less than 2.0% of mass 69	0.00 OK (0.00) #1
69	mass 69 relative abundance	43.26
70	less than 2.0% of mass 69	.21 OK (.4848) #1
127	40.0 - 60.0% of mass 198	43.50 OK
197	less than 1.0% of mass 198	0.00 OK
198	base peak, 100% relative abundance	100.00 OK
199	5.0 - 9.0% of mass 198	6.60 OK
275	10.0 - 30.0% of mass 198	21.47 OK
365	greater than 1.00% of mass 198	1.92 OK
441	present, but less than mass 443	11.09 OK
442	greater than 40.0% of mass 198	74.05 OK
443	17.0 - 23.0% of mass 442	14.41 OK (19.47) #2





QUALITY CONTROL SHEET
TOXIC ORGANIC SECTION: BASE/NEUTRAL/ACIDIC

STUDY NAME Stm. Chem. Service ACTIVITY NUMBER C41100 ANALYST S. Kan

STUDY NUMBER SF-3413

SUMMARY: BLANKS DATA

#	FRN	DATE	BLANK TYPE	COMPOUNDS DETECTED	ESTIMATED CONCENTRATION (µg/l)	STD USED
1.	LS221	8/21/86	L26	Propanoic Acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,3-propanediyl ester	8	Dexophenothrem
				7-Oxabicyclo [4.1.0] heptane	4.2	"
				2-Cyclohexen-1-one	1.6	"
2.						
3.						
4.						

QUANT REPORT

Operator ID: LARRY
Output File: ^LS221::AQ
Data File: >LS221::D5
Name: SF-3414 LAB BLANK
Misc: 8-21-86 1000,1:50

Quant Rev: 4 Quant Time: 860826 15:36
Injected at: 860821 17:03
Dilution Factor: 1.00

BTL# 1

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.14	394	196110	50.60	% REC.	97
2)	2-FLUOROPHENOL	5.45	136	318228	55.00	% REC.	100
3)	D5-PHENOL	8.24	331	174814	36.18	% REC.	100
4)	D5-NITROBENZENE	11.69	572	270492	89.47	% REC.	99
5)	*D10-PHENANTHRENE	25.63	1547	243808	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.41	1112	242959	47.06	% REC.	94
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	192781	78.80	% REC.	100
8)	D14-TERPHENYL	29.88	1844	58378	101.06	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS222::AQ
Data File: >LS222::D5
Name: TOXSTD 25PPB
Misc: 8-21-86

Quant Rev: 4 Quant Time: 860826 15:38
Injected at: 860821 18:08
Dilution Factor: 1.00

BTL# 2

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	392	244851	50.60	% REC.	98
2)	2-FLUOROPHENOL	5.46	137	742436	102.77	% REC.	100
3)	D5-PHENOL	8.27	333	601250	99.67	% REC.	100
4)	D5-NITROBENZENE	11.66	570	378948	100.39	% REC.	99
5)	*D10-PHENANTHRENE	25.62	1545	214519	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.40	1111	351881	77.46	% REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.82	1419	202979	94.30	% REC.	100
8)	D14-TERPHENYL	29.87	1842	45823	90.16	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS223::AQ
Data File: >LS223::D5
Name: TOXSTD 50PPM
Misc: 8-21-86

Quant Rev: 4
Quant Time: 860826 15:39
Injected at: 860821 19:12
Dilution Factor: 1.00

BTL# 3

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.17	395	288292	50.60	% REC.	97
2)	2-FLUOROPHENOL	5.49	138	850631	100.00	% REC.	100
3)	D5-PHENOL	8.32	336	710291	100.00	% REC.	100
4)	D5-NITROBENZENE	11.73	574	444458	100.00	% REC.	94
5)	*D10-PHENANTHRENE	25.66	1546	183628	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.45	1113	388840	100.00	% REC.	96
7)	2,4,6-TRIBROMOPHENOL	23.87	1421	184259	100.00	% REC.	100
8)	D14-TERPHENYL	29.92	1843	43506	100.00	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS224::AQ
Data File: >LS224::D5
Name: TOXSTD 100PPM
Misc: 8-21-86

Quant Rev: 4
Quant Time: 860826 15:40
Injected at: 860821 20:16
Dilution Factor: 1.00

BTL# 4

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.15	395	239814	50.60	% REC.	97
2)	2-FLUOROPHENOL	5.46	137	767250	108.43	% REC.	100
3)	D5-PHENOL	8.31	336	628454	106.36	% REC.	100
4)	D5-NITROBENZENE	11.72	574	371025	100.35	% REC.	96

5) *D10-PHENANTHRENE	25.63	1545	158594	50.10	% REC.	99
6) 2-FLUOROBIPHENYL	19.42	1112	297114	88.47	% REC.	96
7) 2,4,6-TRIBROMOPHENOL	23.84	1420	151915	95.46	% REC.	100
8) D14-TERPHENYL	29.88	1841	46545	123.87	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS225::AQ
Data File: >LS225::D5
Name: MATSTD
Misc: 8-21-86

Quant Rev: 4
Quant Time: 860826 15:41
Injected at: 860821 21:21
Dilution Factor: 1.00

BTL# 5

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *D4-1,4-DICHLOROBENZENE	9.14	394	250060	50.60	% REC.	98
2) 2-FLUOROPHENOL	5.46	137	758516	102.80	% REC.	100
3) D5-PHENOL	8.26	333	633951	102.90	% REC.	100
4) D5-NITROBENZENE	11.68	572	405336	105.14	% REC.	98
5) *D10-PHENANTHRENE	25.64	1547	307035	50.10	% REC.	99
6) 2-FLUOROBIPHENYL	19.41	1112	387494	59.60	% REC.	97
7) 2,4,6-TRIBROMOPHENOL	23.83	1421	287161	93.21	% REC.	100
8) D14-TERPHENYL	29.89	1844	86132	118.40	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS226::AQ
Data File: >LS226::D5
Name: SF-3414 86FB08R13
Misc: 8-21-86 2317,1:100

Quant Rev: 4
Quant Time: 860826 15:42
Injected at: 860821 22:25
Dilution Factor: 1.00

BTL# 6

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *D4-1,4-DICHLOROBENZENE	9.11	392	177507	50.60	% REC.	98
2) 2-FLUOROPHENOL	5.44	136	538081	102.74	% REC.	100
3) D5-PHENOL	8.24	331	307445	70.30	% REC.	100
4) D5-NITROBENZENE	11.69	572	567210	207.27	% REC.	97
5) *D10-PHENANTHRENE	25.61	1545	239366	50.10	% REC.	98
6) 2-FLUOROBIPHENYL	19.40	1111	559538	110.39	% REC.	94
7) 2,4,6-TRIBROMOPHENOL	23.84	1421	388865	161.90	% REC.	100
8) D14-TERPHENYL	29.88	1843	105758	186.48	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS227::AQ
Data File: >LS227::D5
Name: SF-3414 86FB08S91
Misc: 8-21-86 2348,1:100

Quant Rev: 4
Quant Time: 860826 15:42
Injected at: 860821 23:29
Dilution Factor: 1.00
BTL# 7

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	392	186904	50.60	% REC.	95
2)	2-FLUOROPHENOL	5.46	137	674687	122.34	% REC.	100
3)	D5-PHENOL	8.25	332	420371	91.29	% REC.	100
4)	D5-NITROBENZENE	11.67	571	598579	207.73	% REC.	96
5)	*D10-PHENANTHRENE	25.62	1546	184068	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.41	1112	617493	158.42	% REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	365982	198.15	% REC.	100
8)	D14-TERPHENYL	29.89	1844	78487	179.97	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS228::AQ
Data File: >LS228::D5
Name: SF-3421 86FL08R12
Misc: 8-21-86 2310,1:100

Quant Rev: 4
Quant Time: 860826 15:43
Injected at: 860822 00:34
Dilution Factor: 1.00
BTL# 8

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.09	391	187174	50.60	% REC.	99
2)	2-FLUOROPHENOL	5.46	137	535329	96.93	% REC.	100
3)	D5-PHENOL	8.24	331	289617	62.80	% REC.	100
4)	D5-NITROBENZENE	11.63	568	520987	180.54	% REC.	95
5)	*D10-PHENANTHRENE	25.61	1545	231995	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.38	1110	559495	113.89	% REC.	96
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	393533	169.05	% REC.	100
8)	D14-TERPHENYL	29.88	1844	93221	169.60	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS229::AQ
Data File: >LS229::D5
Name: SF-3421 86FL08S85
Misc: 08-21-86 2358,1:100

Quant Rev: 4
Quant Time: 860826 15:44
Injected at: 860822 01:38
Dilution Factor: 1.00
BTL# 9

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.09	391	178053	50.60	% REC.	99
2)	2-FLUOROPHENOL	5.47	138	544660	103.67	% REC.	100
3)	D5-PHENOL	8.25	332	301022	68.62	% REC.	100
4)	D5-NITROBENZENE	11.63	568	531541	193.64	% REC.	99
5)	*D10-PHENANTHRENE	25.62	1546	198927	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.38	1110	556923	132.21	% REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	346000	173.34	% REC.	100
8)	D14-TERPHENYL	29.88	1844	85346	181.08	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS230::AQ
Data File: >LS230::D5
Name: SF-3421 86FL08S86
Misc: 8-21-86 2350,1:100

Quant Rev: 4 Quant Time: 860826 15:44
Injected at: 860822 02:42
Dilution Factor: 1.00

BTL#10

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.10	391	186390	50.60	% REC.	97
2)	2-FLUOROPHENOL	5.47	138	546476	99.37	% REC.	100
3)	D5-PHENOL	8.25	332	306524	66.75	% REC.	100
4)	D5-NITROBENZENE	11.61	567	545027	189.67	% REC.	95
5)	*D10-PHENANTHRENE	25.61	1545	223645	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.37	1109	547094	115.52	% REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.82	1420	355413	158.37	% REC.	100
8)	D14-TERPHENYL	29.87	1843	98605	186.09	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS231::AQ
Data File: >LS231::D5
Name: SF-3421 86FL08S87
Misc: 8-21-86 2300,1:100

Quant Rev: 4 Quant Time: 860826 15:45
Injected at: 860822 03:47
Dilution Factor: 1.00

BTL#11

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.10	391	169683	50.60	% REC.	98
2)	2-FLUOROPHENOL	5.46	137	511037	102.07	% REC.	100
3)	D5-PHENOL	8.25	332	297939	71.27	% REC.	100
4)	D5-NITROBENZENE	11.63	568	573626	219.28	% REC.	99
5)	*D10-PHENANTHRENE	25.62	1546	257653	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.38	1110	608681	111.56	% REC.	96
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	416245	161.00	% REC.	100

8)	D14-TERPHENYL	29.85	1844	112439	184.19	% REC.

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS232::AQ
Data File: >LS232::D5
Name: SF-3421 86FL08D86
Misc: 8-21-86 2290,1:100

Quant Rev: 4 Quant Time: 860826 15:46
Injected at: 860822 04:51
Dilution Factor: 1.00

BTL#12

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.10	391	169673	50.60	% REC.	97
2)	2-FLUOROPHENOL	5.46	137	496125	99.10	% REC.	100
3)	D5-PHENOL	8.24	331	272855	65.27	% REC.	100
4)	D5-NITROBENZENE	11.61	567	486896	186.13	% REC.	98
5)	*D10-PHENANTHRENE	25.61	1545	215038	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.37	1109	462708	101.62	% REC.	96
7)	2,4,6-TRIBROMOPHENOL	23.82	1420	349691	162.06	% REC.	100
8)	D14-TERPHENYL	29.89	1844	94813	186.10	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS233::AQ
Data File: >LS233::D6
Name: SF-3421 86FL08S87MS
Misc: 8-21-86 1000,1:50

Quant Rev: 4 Quant Time: 860826 15:46
Injected at: 860822 05:55
Dilution Factor: 1.00

BTL#13

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.09	391	198833	50.60	% REC.	97
2)	2-FLUOROPHENOL	5.46	137	333078	56.77	% REC.	100
3)	D5-PHENOL	8.24	331	177475	36.23	% REC.	100
4)	D5-NITROBENZENE	11.59	565	272966	89.05	% REC.	99
5)	*D10-PHENANTHRENE	25.61	1545	218913	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.37	1109	272008	58.68	% REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.80	1419	190983	86.94	% REC.	100
8)	D14-TERPHENYL	29.88	1843	44615	86.02	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS234::AQ

Quant Rev: 4 Quant Time: 860826 15:47
Injected at: 860822 07:00

Data File: >LS234::D6 Dilution Factor: 1.00
Name: SF-3421 86FL08S87MSD
Misc: 8-21-86 1000,1:50 BTL#14

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	392	192674	50.60	% REC.	99
2)	2-FLUOROPHENOL	5.46	137	325225	57.21	% REC.	100
3)	D5-PHENOL	8.24	331	178730	37.65	% REC.	100
4)	D5-NITROBENZENE	11.61	567	268612	90.43	% REC.	99
5)	*D10-PHENANTHRENE	25.62	1546	206882	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.38	1110	271851	62.05	% REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.80	1419	183727	88.50	% REC.	100
8)	D14-TERPHENYL	29.89	1844	44019	89.81	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY Quant Rev: 4 Quant Time: 860826 15:48
Output File: ^LS235::AQ Injected at: 860822 08:04
Data File: >LS235::D6 Dilution Factor: 1.00
Name: SF-3413 86S501S01
Misc: 8-21-86 2278,1:100 BTL#15

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.09	391	186275	50.60	% REC.	99
2)	2-FLUOROPHENOL	5.46	137	613730	111.66	% REC.	100
3)	D5-PHENOL	8.24	331	383695	83.60	% REC.	100
4)	D5-NITROBENZENE	11.63	568	566399	197.23	% REC.	95
5)	*D10-PHENANTHRENE	25.62	1546	214824	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.39	1111	591573	130.04	% REC.	94
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	390236	181.03	% REC.	100
8)	D14-TERPHENYL	29.89	1844	92618	181.97	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY Quant Rev: 4 Quant Time: 860826 15:48
Output File: ^LS236::AQ Injected at: 860822 09:08
Data File: >LS236::D6 Dilution Factor: 1.00
Name: SF-3413 86S501D01
Misc: 8-21-86 2395,1:100 BTL#16

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q

1)	*D4-1,4-DICHLOROBENZENE	9.11	390	188076	50.60 % REC.	[illegible]
2)	2-FLUOROPHENOL	5.47	136	654116	117.87 % REC.	100
3)	D5-PHENOL	8.25	330	441049	95.18 % REC.	100
4)	D5-NITROBENZENE	11.65	568	576533	198.83 % REC.	97
5)	*D10-PHENANTHRENE	25.63	1545	217316	50.10 % REC.	98
6)	2-FLUOROBIPHENYL	19.41	1110	561996	122.13 % REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.84	1420	384647	176.39 % REC.	100
8)	D14-TERPHENYL	29.90	1843	81414	158.12 % REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS237::AQ
Data File: >LS237::D6
Name: SF-3413 86S501R01
Misc: 8-21-86 2238,1:100

Quant Rev: 4 Quant Time: 860826 15:49
Injected at: 860822 10:13
Dilution Factor: 1.00

BTL#17

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.09	390	156463	50.60	% REC.	95
2)	2-FLUOROPHENOL	5.47	137	535117	115.91	% REC.	100
3)	D5-PHENOL	8.24	331	289562	75.11	% REC.	100
4)	D5-NITROBENZENE	11.62	567	454413	188.38	% REC.	98
5)	*D10-PHENANTHRENE	25.62	1544	219091	50.10	% REC.	97
6)	2-FLUOROBIPHENYL	19.38	1109	461365	99.45	% REC.	95
7)	2,4,6-TRIBROMOPHENOL	23.84	1420	408831	185.96	% REC.	100
8)	D14-TERPHENYL	29.88	1842	114467	220.52	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS238::AQ
Data File: >LS238::D6
Name: SF-3413 86S501S02
Misc: 8-21-86 2334,1:100

Quant Rev: 4 Quant Time: 860826 15:50
Injected at: 860822 11:17
Dilution Factor: 1.00

BTL#18

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	392	188426	50.60	% REC.	98
2)	2-FLUOROPHENOL	5.46	137	552559	99.39	% REC.	100
3)	D5-PHENOL	8.25	332	359188	77.37	% REC.	100
4)	D5-NITROBENZENE	11.63	568	530646	182.67	% REC.	98
5)	*D10-PHENANTHRENE	25.62	1546	215939	50.10	% REC.	99
6)	2-FLUOROBIPHENYL	19.39	1111	547429	119.72	% REC.	96
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	376104	173.57	% REC.	100
8)	D14-TERPHENYL	29.88	1844	83773	163.74	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS239::AQ
Data File: >LS239::D6
Name: SF-3413 86S501S03
Misc: 8-21-86 2337,1:100

Quant Rev: 4 Quant Time: 860826 15:50
Injected at: 860822 12:22
Dilution Factor: 1.00

BTL#19

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.10	391	161408	50.60	% REC.	98
2)	2-FLUOROPHENOL	5.46	137	493393	103.60	% REC.	100
3)	D5-PHENOL	8.24	331	304344	76.53	% REC.	100
4)	D5-NITROBENZENE	11.61	567	473762	190.39	% REC.	98
5)	*D10-PHENANTHRENE	25.62	1546	250444	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.38	1110	484221	91.31	% REC.	96
7)	2,4,6-TRIBROMOPHENOL	23.83	1421	428755	170.61	% REC.	100
8)	D14-TERPHENYL	29.89	1844	137142	231.13	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS240::AQ
Data File: >LS240::D6
Name: SF-3413 86S501S04
Misc: 8-21-86 2240,1:100

Quant Rev: 4 Quant Time: 860826 15:51
Injected at: 860822 13:26
Dilution Factor: 1.00

BTL#20

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.10	391	167189	50.60	% REC.	96
2)	2-FLUOROPHENOL	5.46	137	546244	110.73	% REC.	100
3)	D5-PHENOL	8.26	332	384969	93.46	% REC.	100
4)	D5-NITROBENZENE	11.63	568	520886	202.09	% REC.	96
5)	*D10-PHENANTHRENE	25.63	1546	266192	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.39	1110	502867	89.21	% REC.	96
7)	2,4,6-TRIBROMOPHENOL	23.84	1421	451563	169.06	% REC.	100
8)	D14-TERPHENYL	29.90	1844	136178	215.92	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS241::AQ
Data File: >LS241::D6
Name: SF-3413 86S501S05
Misc: 8-21-86 2344,1:100

Quant Rev: 4 Quant Time: 860826 15:51
Injected at: 860822 14:30
Dilution Factor: 1.00

BTL#21

ID File: QASK13::D2
Title: SURROGATE SPIKE % RECOVERY
Last Calibration: 860826 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	392	210554	50.60	% REC.	98
2)	2-FLUOROPHENOL	5.46	137	507832	81.74	% REC.	100
3)	D5-PHENOL	8.25	332	330354	63.68	% REC.	100
4)	D5-NITROBENZENE	11.64	569	447347	137.81	% REC.	98
5)	*D10-PHENANTHRENE	25.62	1546	227971	50.10	% REC.	98
6)	2-FLUOROBIPHENYL	19.40	1111	461378	95.58	% REC.	93
7)	2,4,6-TRIBROMOPHENOL	23.85	1422	414040	181.00	% REC.	100
8)	D14-TERPHENYL	29.89	1844	90644	167.82	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS225::AQ
Data File: >LS225::D5
Name: MATSTD
Misc: 8-21-86

Quant Rev: 4
Quant Time: 860826 15:19
Injected at: 860821 21:21
Dilution Factor: 1.00

BTL# 5

ID File: QASK12::D2
Title: COPIED FROM QASK4: T2 IS 280
Last Calibration: 860826 15:18

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.14	394	250060	50.60	% REC.	98
2)	PHENOL	8.31	336	162260	100.00	% REC.	100
3)	2-CHLOROPHENOL	8.51	350	230366	100.00	% REC.	94
4)	1,4-DICHLOROBENZENE	9.19	398	123052	100.00	% REC.	98
5)	BENZYL ALCOHOL	9.95	451	37120	100.00	% REC.	100
6)	N-NITROSODIPROPYL AMINE	11.30	545	130599	100.00	% REC.	93
7)	1,2,4-TRICHLOROBENZENE	14.70	783	108444	100.00	% REC.	98
8)	4-CHLOROANILINE	15.52	840	141792	100.00	% REC.	100
9)	4-CHLORO-3-METHYLPHENOL	17.78	998	70735	100.00	% REC.	100
10)	*D10-PHENANTHRENE	25.64	1547	307035	50.10	% REC.	99
11)	ACENAPHTHENE	21.55	1262	149445	100.00	% REC.	91
12)	DIBENZOFURAN	22.04	1296	236380	100.00	% REC.	100
13)	2,4-DINITROTOLUENE	22.30	1314	108308	100.00	% REC.	86
14)	4-NITROPHENOL	22.23	1309	109354	100.00	% REC.	100
15)	PENTACHLOROPHENOL	25.34	1526	44304	100.00	% REC.	100
16)	DI-N-BUTYLPHTHALATE	27.46	1674	207497	100.00	% REC.	98
17)	PYRENE	29.40	1810	125159	100.00	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS233::AQ
Data File: >LS233::D6
Name: SF-3421 86FL08S87MS
Misc: 8-21-86 1000,1:50

Quant Rev: 4
Quant Time: 860826 15:21
Injected at: 860822 05:55
Dilution Factor: 1.00

BTL#13

ID File: QASK12::D2
Title: COPIED FROM QASK4: T2 IS 280
Last Calibration: 860826 15:18

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.09	391	198833	50.60	% REC.	97
2)	PHENOL	8.28	334	48065	37.25	% REC.	100
3)	2-CHLOROPHENOL	8.48	348	152403	83.20	% REC.	95
4)	1,4-DICHLOROBENZENE	9.15	395	81594	83.39	% REC.	97
5)	BENZYL ALCOHOL	9.90	447	7969	27.00	% REC.	100
6)	N-NITROSODIPROPYL AMINE	11.20	538	90193	86.85	% REC.	91
7)	1,2,4-TRICHLOROBENZENE	14.62	777	72424	83.99	% REC.	98
8)	4-CHLOROANILINE	15.45	835	89700	79.56	% REC.	100
9)	4-CHLORO-3-METHYLPHENOL	17.74	995	48788	86.74	% REC.	100
10)	*D10-PHENANTHRENE	25.61	1545	218913	50.10	% REC.	98
11)	ACENAPHTHENE	21.53	1260	107368	100.77	% REC.	94
12)	DIBENZOFURAN	22.01	1294	168506	99.98	% REC.	100

13)	2,4-DINITROTOLUENE	22.2[illegible]	[illegible]	[illegible]	[illegible]	% REC.	[illegible]
14)	4-NITROPHENOL	22.01	1294	49674	63.71	% REC.	100
15)	PENTACHLOROPHENOL	25.32	1525	26439	83.70	% REC.	100
16)	DI-N-BUTYLPHTHALATE	27.44	673	137771	93.12	% REC.	99
17)	PYRENE	29.30	709	75953	85.11	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY Quant Rev: 4 Quant Time: 860826 15:22
Output File: ^LS234::AQ Injected at: 860822 07:00
Data File: >LS234::D6 Dilution Factor: 1.00
Name: SF-3421 86FL08S87MSD
Misc: 8-21-86 1000,1:50 BTL#14

ID File: QASK12::D2
Title: COPIED FROM QASK4: T2 IS 280
Last Calibration: 860826 15:18

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	9.11	392	192674	50.60	% REC.	99
2)	PHENOL	8.28	334	47999	38.39	% REC.	100
3)	2-CHLOROPHENOL	8.49	349	153554	86.51	% REC.	95
4)	1,4-DICHLOROBENZENE	9.17	396	78494	82.79	% REC.	98
5)	BENZYL ALCOHOL	9.94	450	5062	17.70	% REC.	100
6)	N-NITROSODIPROPYL AMINE	11.23	540	88014	87.46	% REC.	92
7)	1,2,4-TRICHLOROBENZENE	14.65	779	70412	84.27	% REC.	97
8)	4-CHLOROANILINE	15.48	837	89283	81.72	% REC.	100
9)	4-CHLORO-3-METHYLPHENOL	17.75	996	48284	88.59	% REC.	100
10)	*D10-PHENANTHRENE	25.62	1546	206882	50.10	% REC.	98
11)	ACENAPHTHENE	21.54	1261	105933	105.20	% REC.	92
12)	DIBENZOFURAN	22.01	1294	166042	104.25	% REC.	100
13)	2,4-DINITROTOLUENE	22.29	1313	71662	98.20	% REC.	92
14)	4-NITROPHENOL	22.03	1295	47143	63.08	% REC.	100
15)	PENTACHLOROPHENOL	25.32	1525	26862	89.08	% REC.	100
16)	DI-N-BUTYLPHTHALATE	27.46	1674	128097	91.62	% REC.	98
17)	PYRENE	29.40	1810	70502	83.60	% REC.	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS235::AQ
Data File: >LS235::D6
Name: SF-3413 86S501S01
Misc: 8-21-86 2278,1:100

Quant Rev: 1
Quant Time: 860827 11:15
Injected at: 860822 08:01
Dilution Factor: 1.00

BTL#15

ID File: QAISTD::D2
Title: INTERNAL STANDARDS AREA COUNTS
Last Calibration: 860601 14:09

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *D4-1,4-DICHLOROBENZENE	9.09	301	119812	50.60	COUNTS	100
2) *D10-PHENANTHRENE	25.62	1546	214824	50.10	COUNTS	100
3) *D12-PERYLENE	30.24	2406	21080	50.00	COUNTS	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS236::AQ
Data File: >LS236::D6
Name: SF-3413 86S501D01
Misc: 8-21-86 2305,1:100

Quant Rev: 1
Quant Time: 860827 11:15
Injected at: 860822 09:08
Dilution Factor: 1.00

BTL#16

ID File: QAISTD::D2
Title: INTERNAL STANDARDS AREA COUNTS
Last Calibration: 860601 14:09

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *D4-1,4-DICHLOROBENZENE	9.11	300	119521	50.60	COUNTS	100
2) *D10-PHENANTHRENE	25.63	1545	217316	50.10	COUNTS	100
3) *D12-PERYLENE	30.25	2405	22100	50.00	COUNTS	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS237::AQ
Data File: >LS237::D6
Name: SF-3413 86S501R01
Misc: 8-21-86 2238,1:100

Quant Rev: 1
Quant Time: 860827 11:46
Injected at: 860822 10:13
Dilution Factor: 1.00

BTL#17

ID File: QAISTD::D2

ID File: QAISTD::D2
Title: INTERNAL STANDARDS AREA COUNTS
Last Calibration: 860604 14:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.00	300	100506	50.60	COUNTS	100
2)	*D10-PHENANTHRENE	25.62	1544	210001	50.10	COUNTS	100
3)	*D12-PERYLENE	30.25	2405	33433	50.00	COUNTS	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS238::AQ
Data File: >LS238::D6
Name: SF-3413 86S501S02
Misc: 8-21-86 2331,1:100

Quant Rev: 4 Quant Time: 860827 11:46
Injected at: 860822 11:17
Dilution Factor: 1.00

BTL#18

ID File: QAISTD::D2
Title: INTERNAL STANDARDS AREA COUNTS
Last Calibration: 860604 14:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.11	302	117430	50.60	COUNTS	100
2)	*D10-PHENANTHRENE	25.62	1546	215030	50.10	COUNTS	100
3)	*D12-PERYLENE	30.25	2407	21576	50.00	COUNTS	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS239::AQ
Data File: >LS239::D6
Name: SF-3413 86S501S03
Misc: 8-21-86 2337,1:100

Quant Rev: 4 Quant Time: 860827 11:46
Injected at: 860822 12:22
Dilution Factor: 1.00

BTL#19

ID File: QAISTD::D2
Title: INTERNAL STANDARDS AREA COUNTS
Last Calibration: 860604 14:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.10	301	102401	50.60	COUNTS	100
2)	*D10-PHENANTHRENE	25.62	1546	250414	50.10	COUNTS	100
3)	*D12-PERYLENE	30.27	2408	45230	50.00	COUNTS	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY
Output File: ^LS240::AQ
Data File: >LS240::D6
Name: SF-3413 86S501S04

Quant Rev: 4 Quant Time: 860827 11:47
Injected at: 860822 13:26
Dilution Factor: 1.00

Misc: 8-21-86 2240,1:100 BTL#20

ID File: QAISTD::D2
Title: INTERNAL STANDARDS AREA COUNTS
Last Calibration: 860604 14:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.10	301	110281	50.60	COUNTS	100
2)	*D10-PHENANTHRENE	25.63	1546	266102	50.10	COUNTS	100
3)	*D12-PERYLENE	30.26	2407	22723	50.00	COUNTS	100

* Compound is ISTD

QUANT REPORT

Operator ID: LARRY Quant Rev: 4 Quant Time: 860827 11:47
Output File: ^LS241::AQ Injected at: 860822 14:30
Data File: >LS241::D6 Dilution Factor: 1.00
Name: SF-3113 86S501S05
Misc: 8-21-86 2344,1:100 BTL#21

ID File: QAISTD::D2
Title: INTERNAL STANDARDS AREA COUNTS
Last Calibration: 860604 14:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4-1,4-DICHLOROBENZENE	0.11	302	132000	50.60	COUNTS	100
2)	*D10-PHENANTHRENE	25.62	1546	227071	50.10	COUNTS	100
3)	*D12-PERYLENE	30.27	2408	22322	50.00	COUNTS	100

* Compound is ISTD

CENTRAL REGIONAL LABORATORY
U.S. ENVIRONMENTAL PROTECTION AGENCY
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312/353-8370

B/N/A ORGANIC ANALYSIS SHEET

Study Name: Am. Chem Service Study Number: SF-3413

Lab Sample I.D. No.: Lab Blank Activity Number: C41100

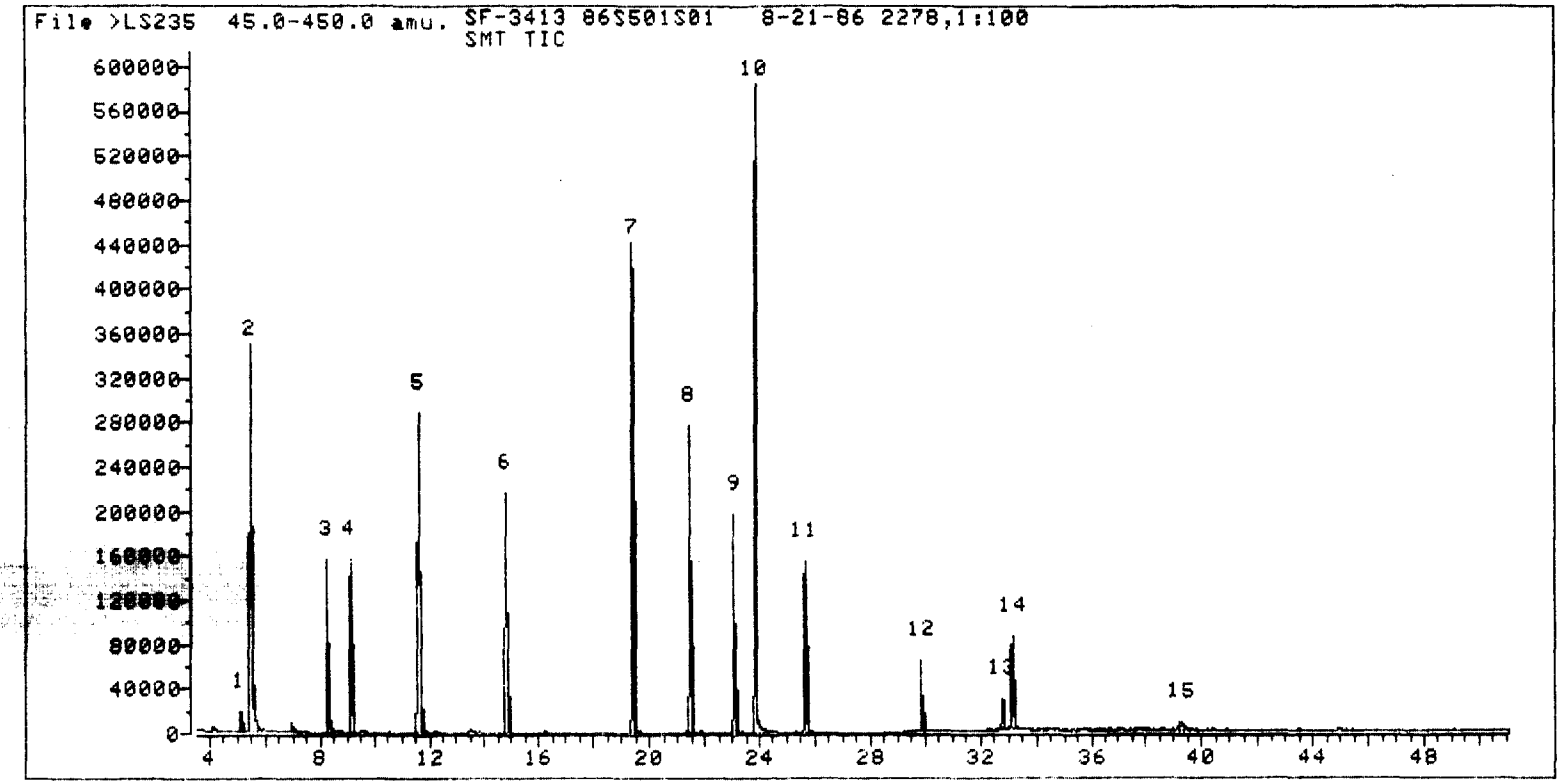
TENTATIVELY IDENTIFIED COMPOUNDS ISTD: 678880		ESTIMATED CONCENTRATION (µg/l)
1. Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,3-propanediyl ester	708793	8
2. 7-Oxabicyclo[4.1.0]heptane	4763.0	4.2
3. 2-Cyclohexen-1-one	2298.7	1.6
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		

CODES:
- U - Compound was analyzed for, but not detected. The value is the minimum detection limit for the sample analyzed.
- SC - Suspected contaminant
- J - Estimated Value
- N.A. - This compound was not analyzed for using an external standard automatic quantification program. However, manual peak identification indicates that the compound is not present above the minimum detection limit of the method.

>LS235 SF-3413 86S501S01 8-21-86 2278.1:100
45.01 450.0 SMT TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.072	105	110	125	17563	111878	81113	3.10	.641
2	5.458	131	137	181	347739	1665074	1588618	60.71	12.552
3	8.236	325	331	354	156100	720593	694647	26.54	5.489
4	9.095	384	391	408	156704	640365	622931	23.80	4.922
5	11.627	556	568	580	288113	1454548	1441274	55.08	11.388
6	14.775	778	788	801	217214	927105	916394	35.02	7.241
7	19.380	1103	1110	1121	439812	1632889	1625143	62.10	12.841
8	21.440	1247	1254	1268	276978	1030222	1018107	38.91	8.044
9	23.085	1363	1369	1382	196686	632502	623832	23.84	4.929
10	23.830	1412	1421	1455	583508	2641472	2616900	100.00	20.677
11	25.621	1539	1546	1559	153961	612574	597478	22.83	4.721
12	29.885	1838	1844	1852	64070	257069	239074	9.14	1.889
13	32.767	2037	2045	2054	28608	199273	150136	5.74	1.186
14	33.140	2061	2071	2089	84616	452803	369534	14.12	2.920
15	39.236	2486	2496	2519	6597	159979	70965	2.71	.561

Sum of corrected areas: 12656148.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4
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20
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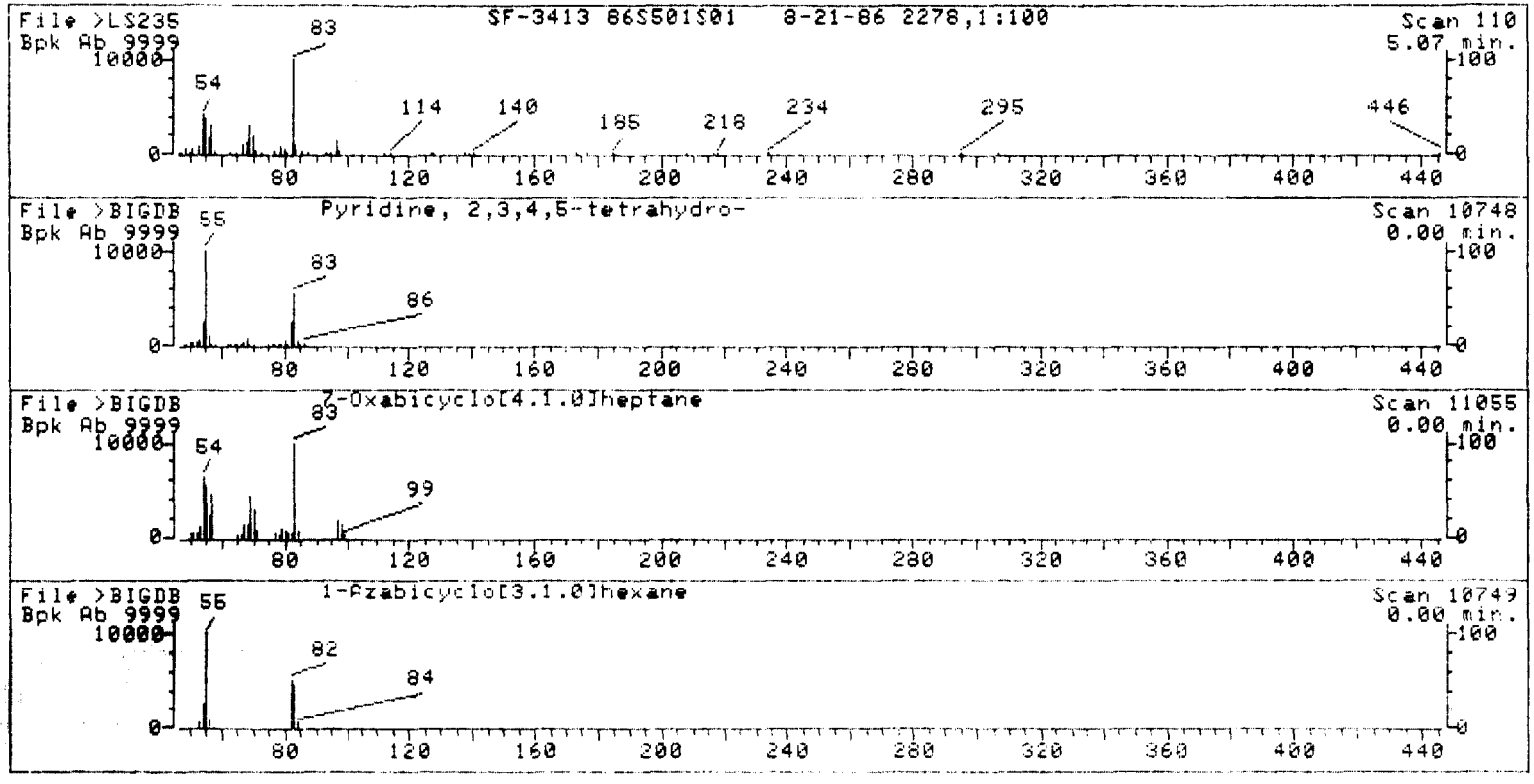
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234
295
446
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Pyridine, 2,3,4,5-tetrahydro-
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2-Oxabicyclo[4.1.0]heptane
Scan 11055
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83
54
99
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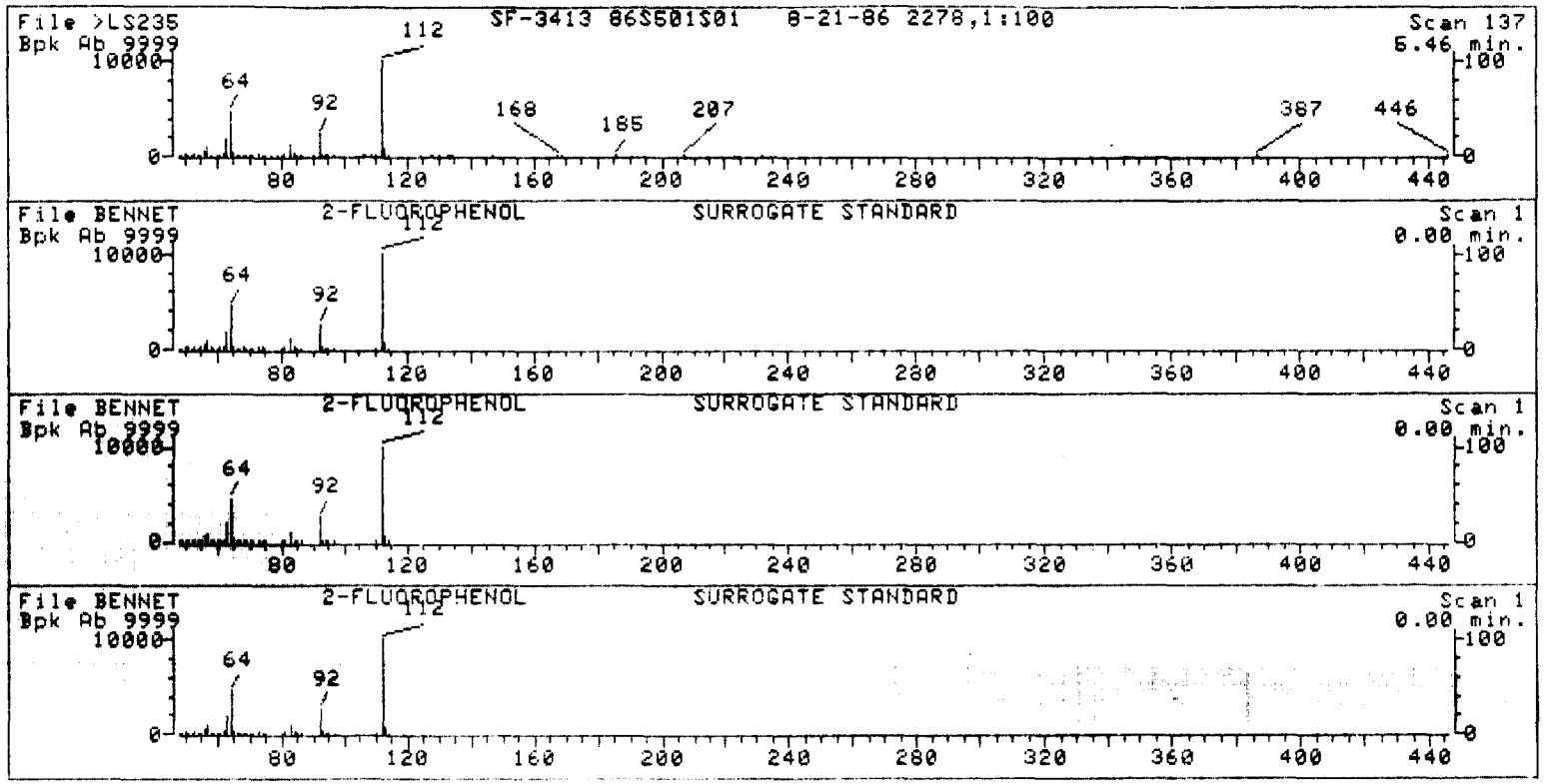
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207
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446
80 120 160 200 240 280 320 360 400 440
File BENNET
2-FLUOROPHENOL
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0.00 min.
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64
92
112
80 120 160 200 240 280 320 360 400 440
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
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0
64
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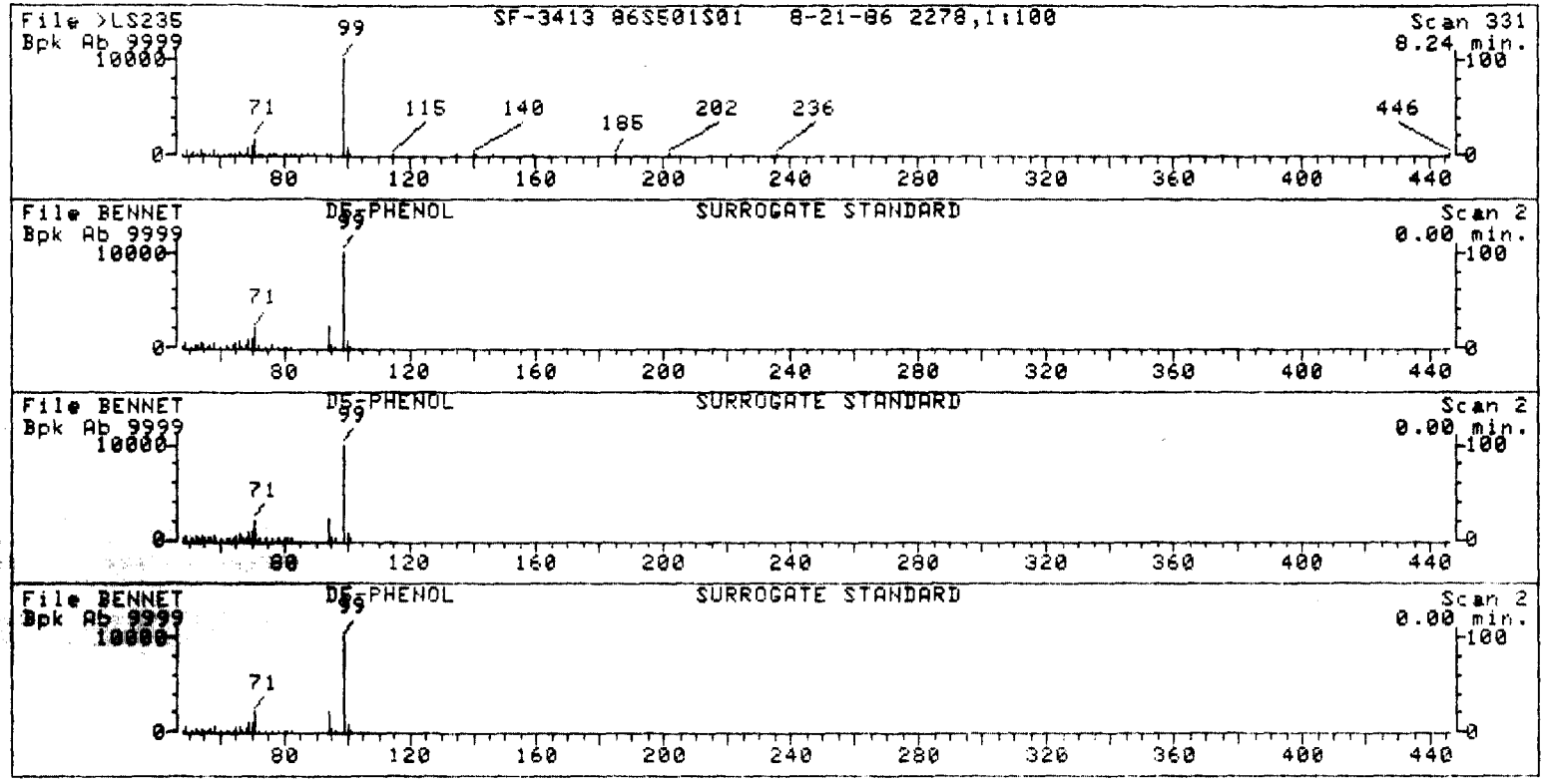
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140
185
202
236
446
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200
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400
440
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Bpk Ab 9999
10000
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D5-PHENOL
SURROGATE STANDARD
Scan 2
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100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
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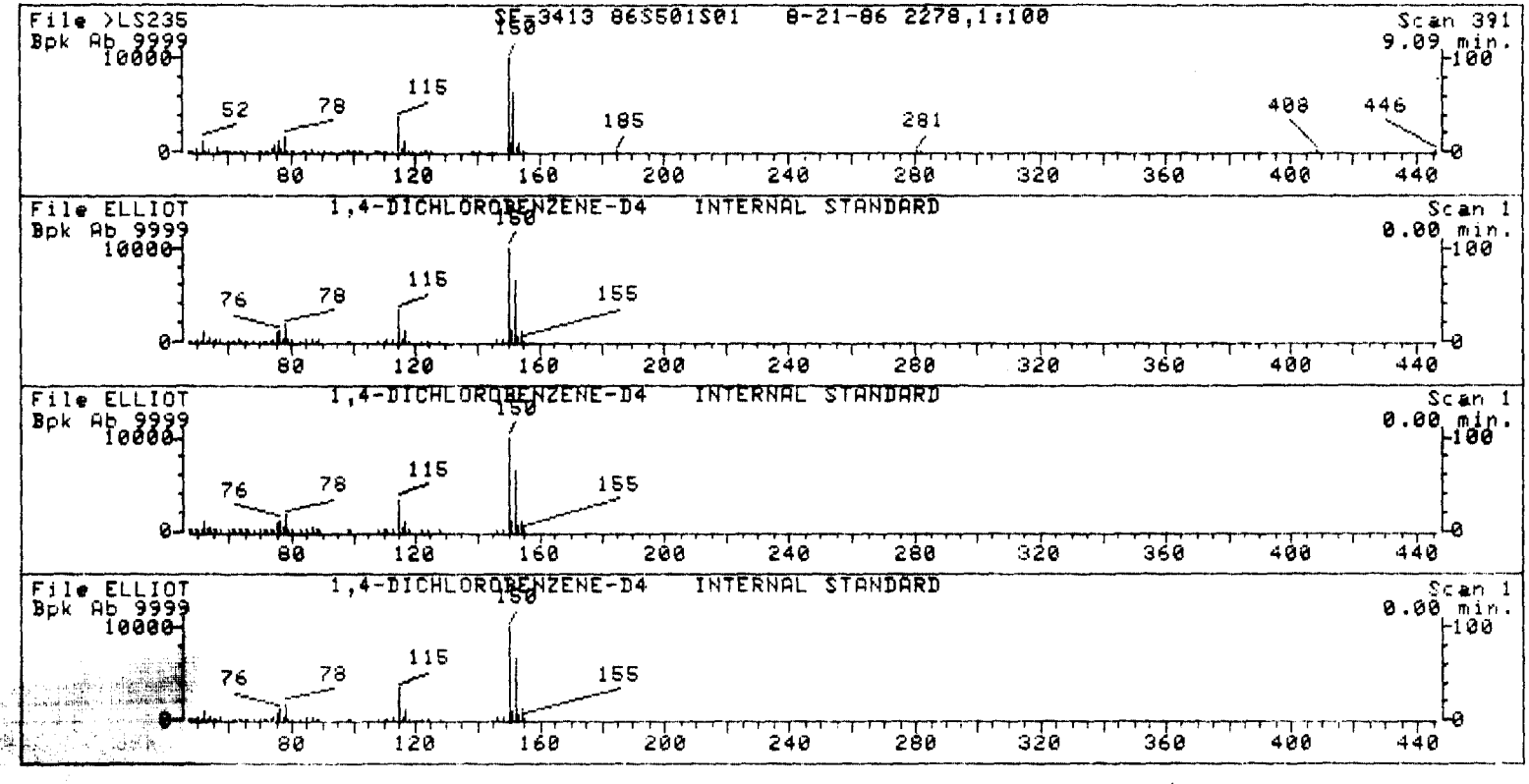
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78
115
150
185
281
408
446
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
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1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
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150
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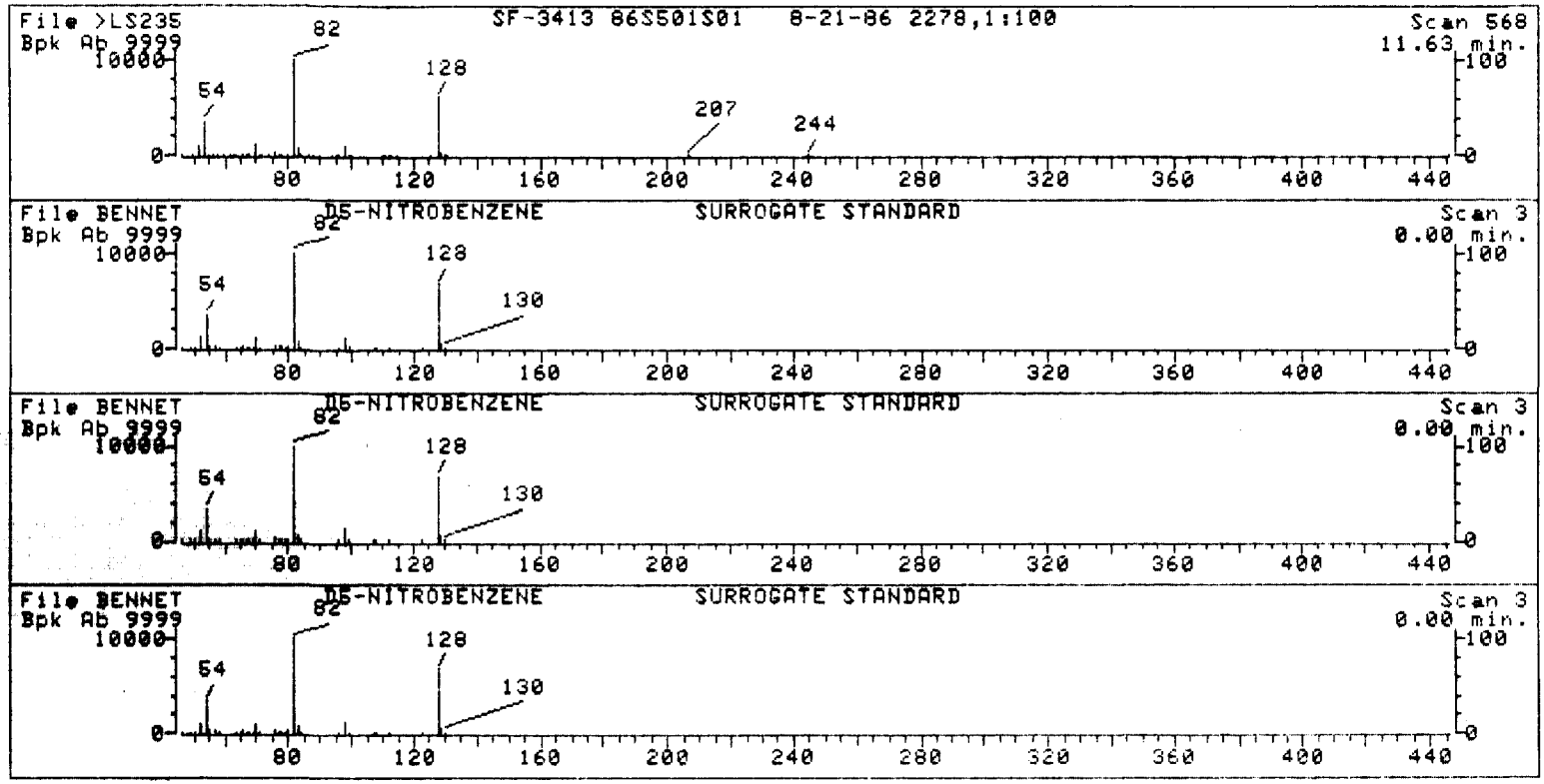
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Scan 3
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SURROGATE STANDARD
Scan 3
0.00 min.
File BENNET
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
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54
82
128
130
207
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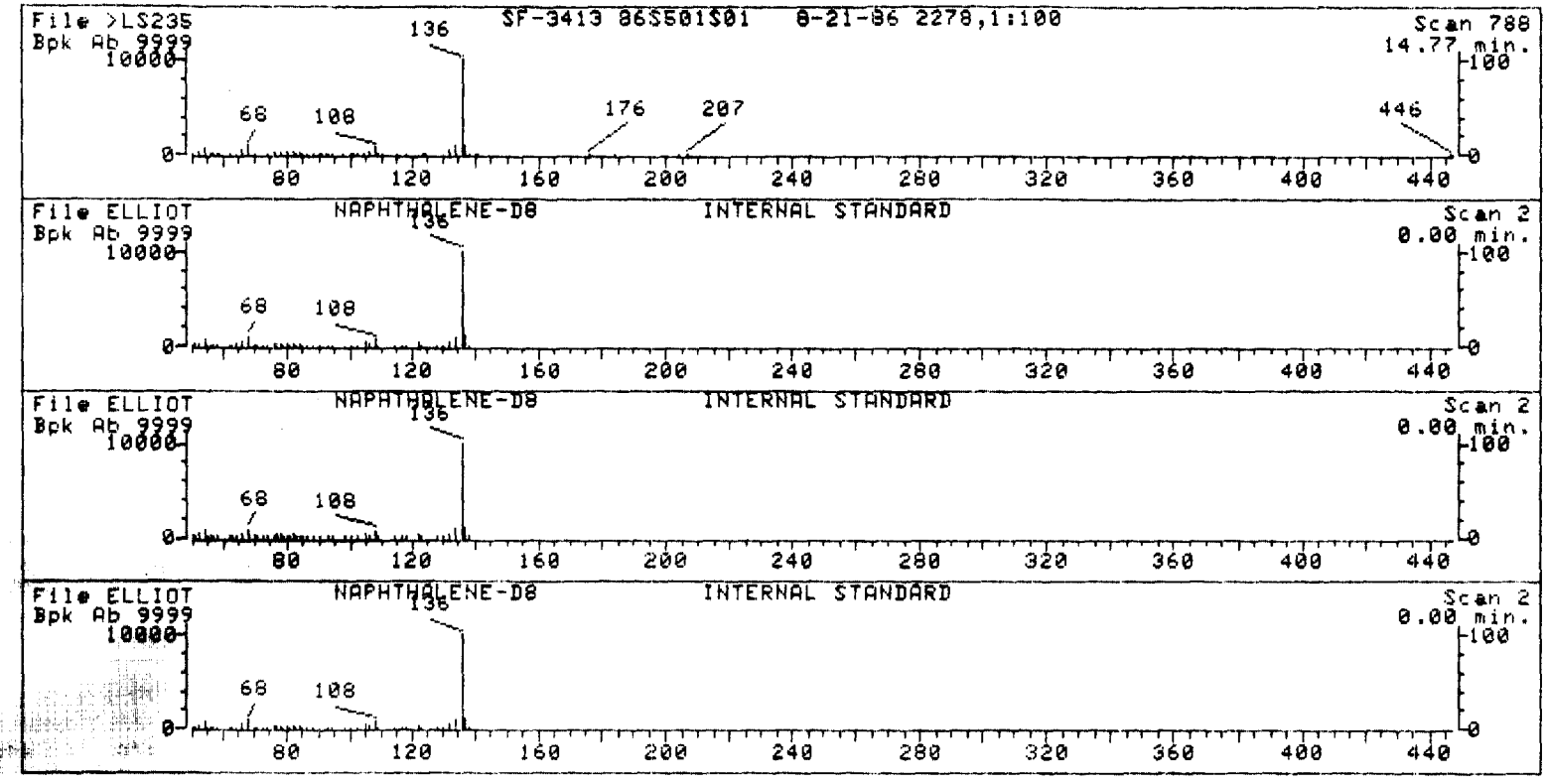
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68
108
176
207
446
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Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
File ELLIOT
Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
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INTERNAL STANDARD
Scan 2
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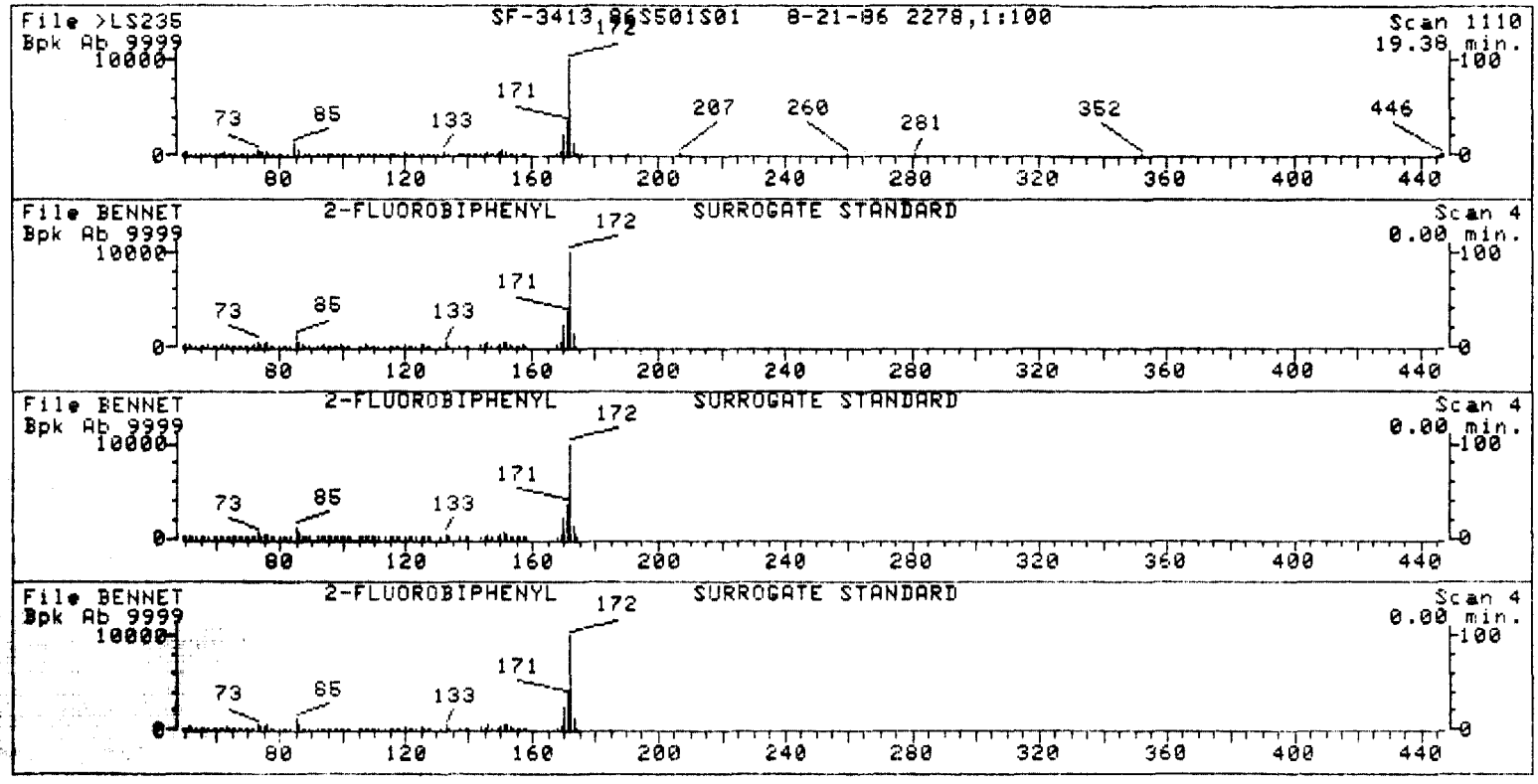
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172
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73
85
133
207
260
281
352
446
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
0.00 min.
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
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File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
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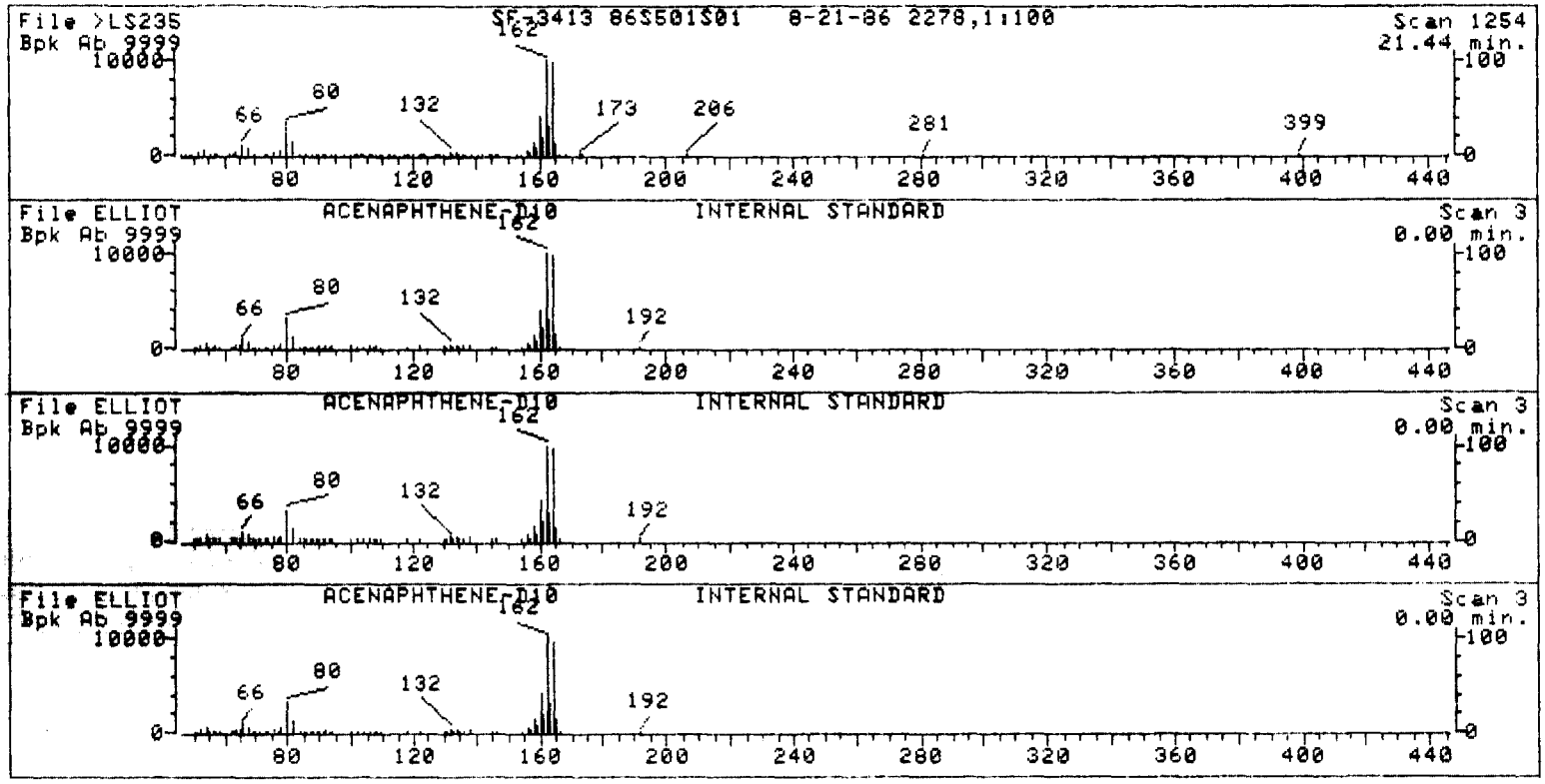
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66
132
173
206
281
399
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
162
80
66
132
192
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
162
80
66
132
192
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
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66
132
192
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400
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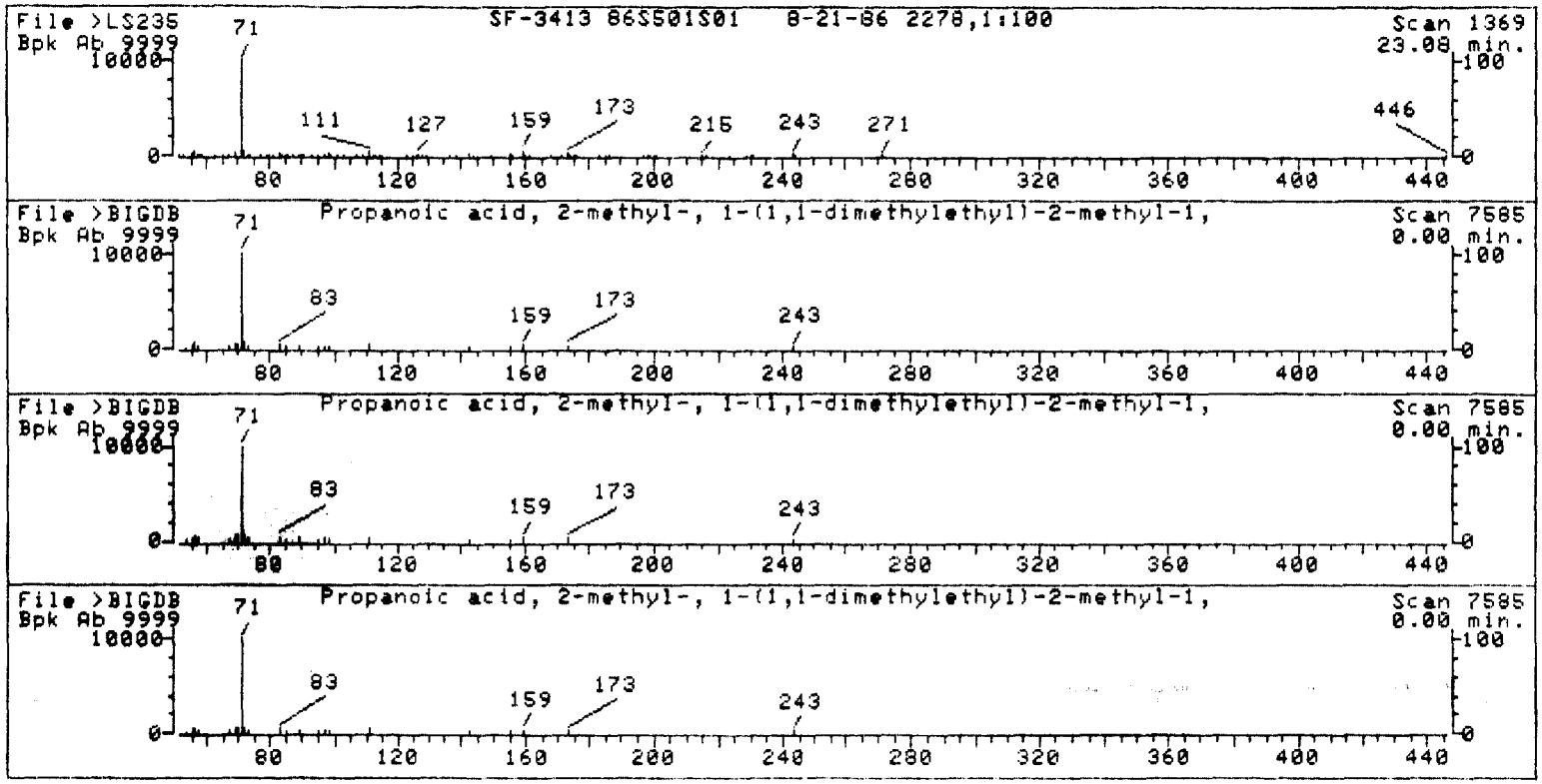
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Scan 1369
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71
111
127
159
173
215
243
271
446
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83
159
173
243
File >BIGDB
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
83
159
173
243
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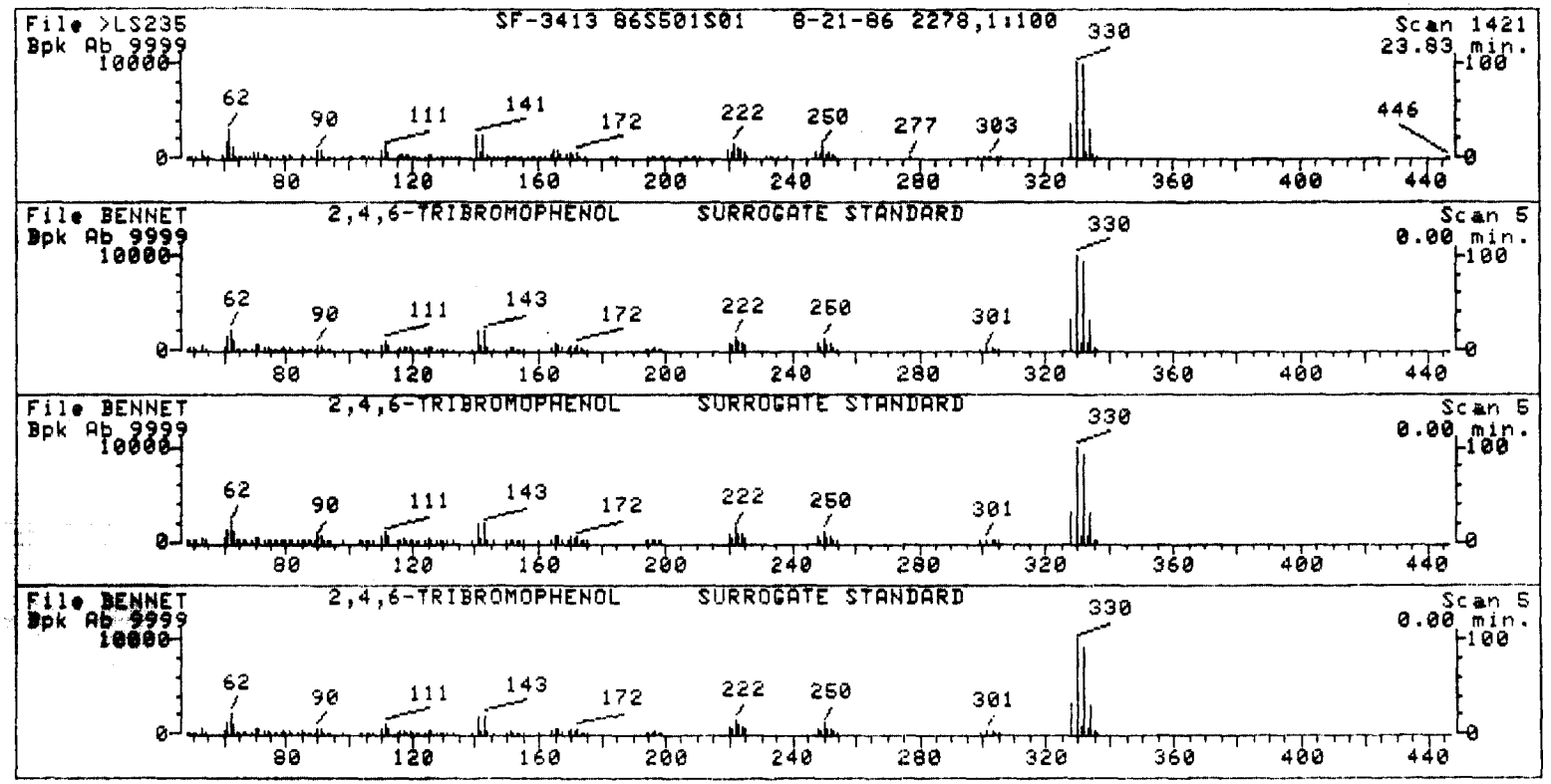
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
83
159
173
243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90
111
141
172
222
250
277
303
330
446
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
100
0
62
90
111
143
172
222
250
301
330
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
100
0
62
90
111
143
172
222
250
301
330
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
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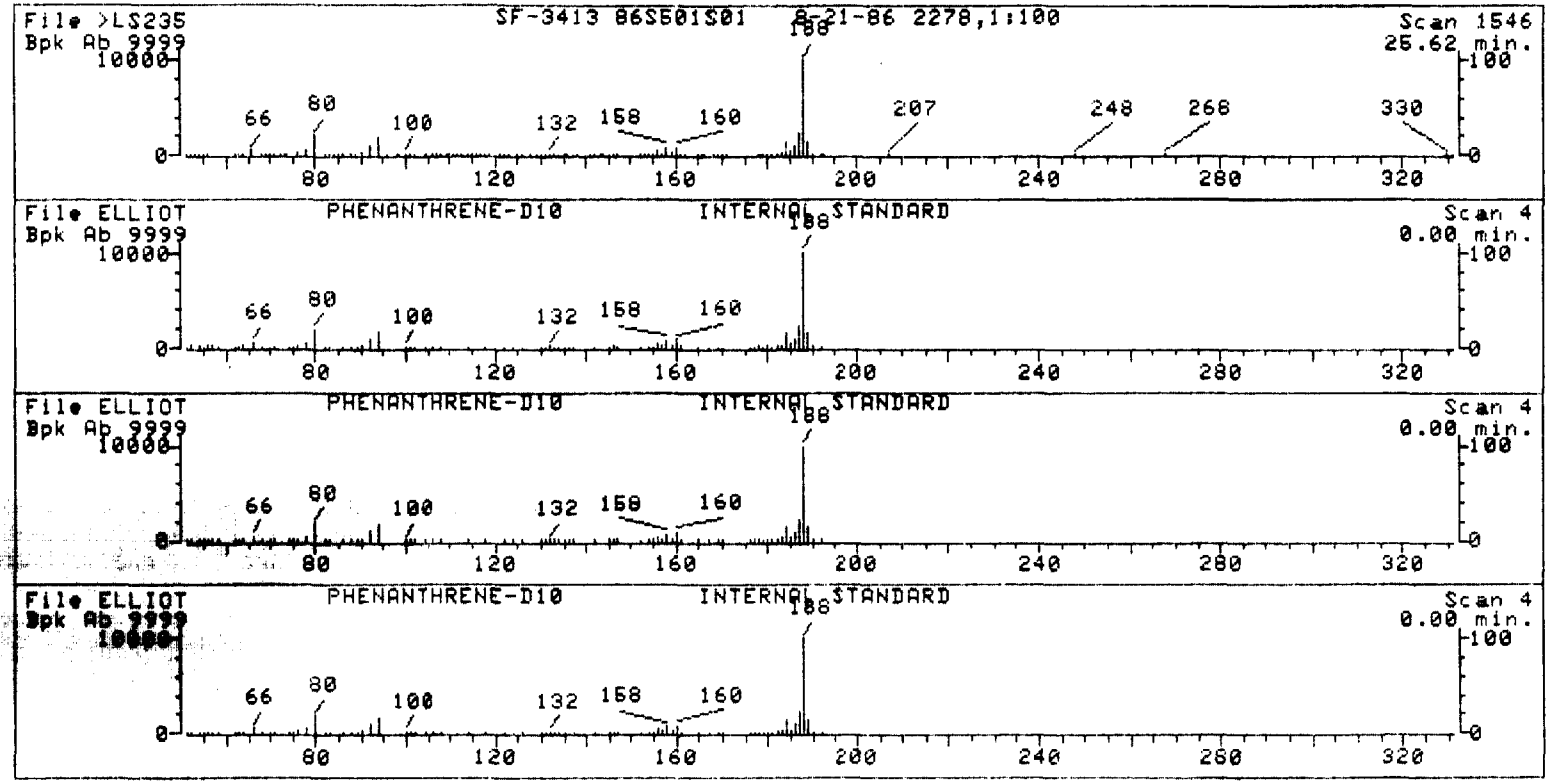
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PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
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188
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200
240
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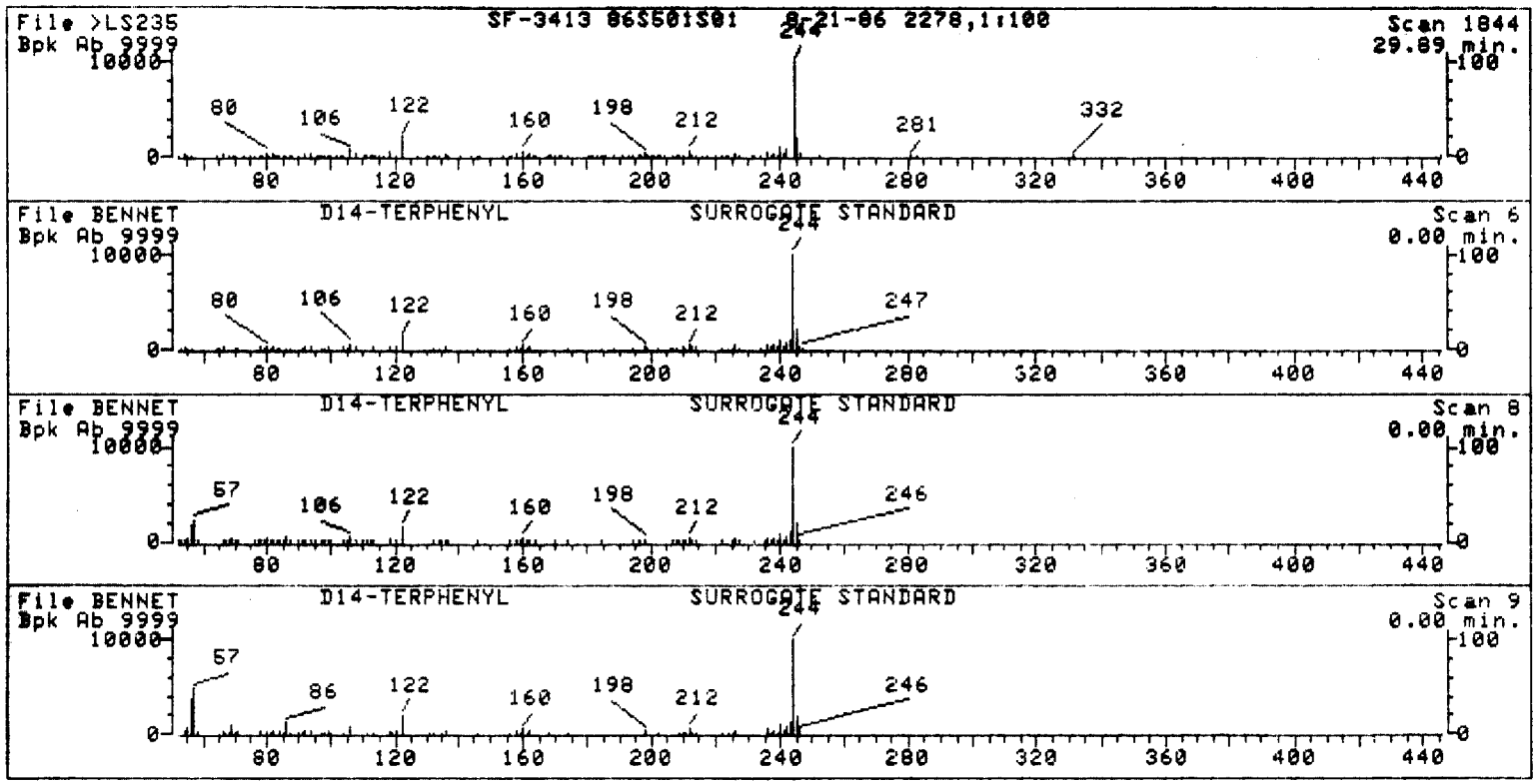
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D14-TERPHENYL SURROGATE STANDARD
Scan 6
0.00 min.
244
80 106 122 160 198 212 247
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 8
0.00 min.
244
57 106 122 160 198 212 246
File BENNET
Bpk Ab 9999
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Scan 9
0.00 min.
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100
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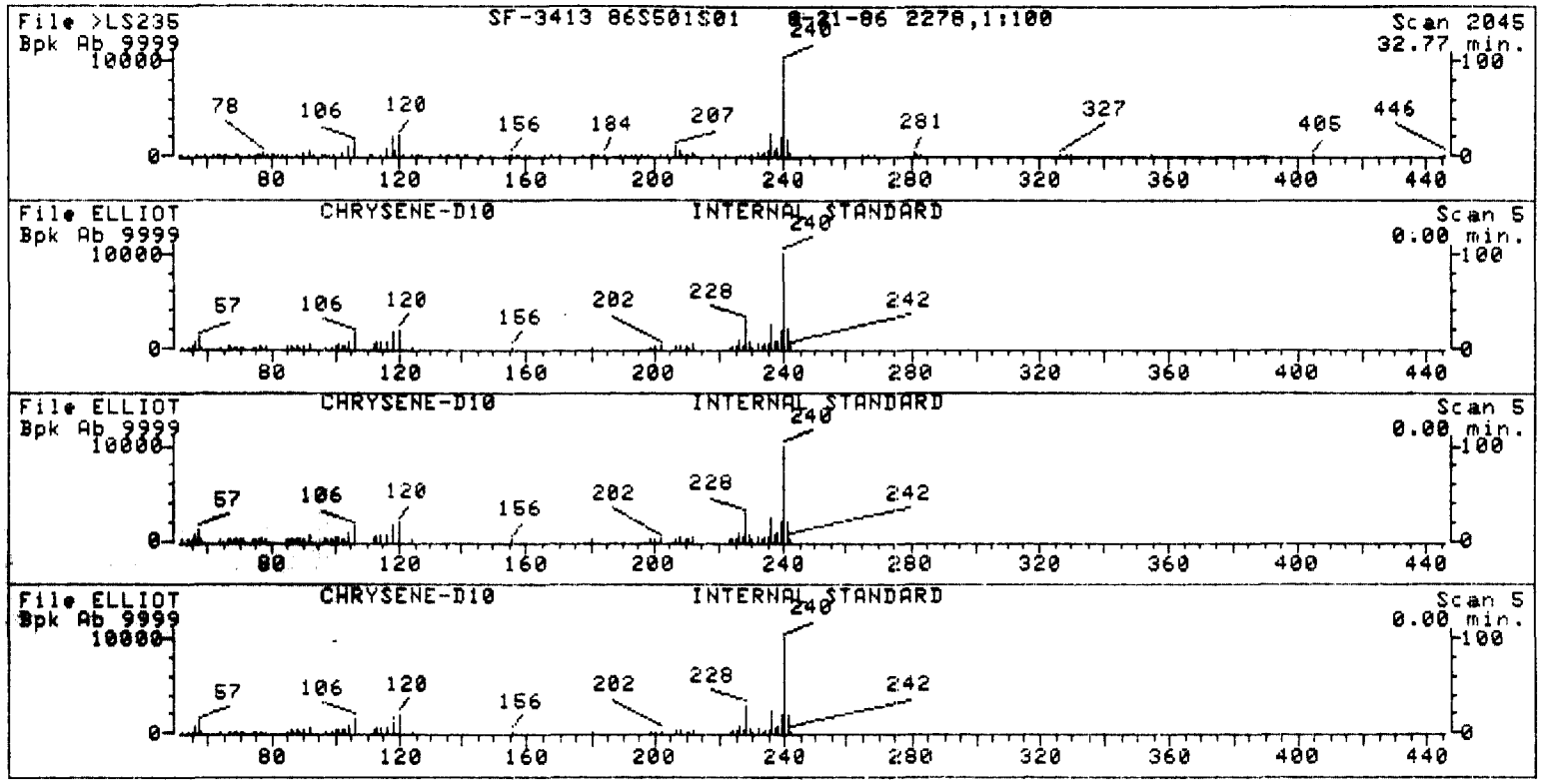
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CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
57 106 120 156 202 228 242
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
57 106 120 156 202 228 242
File ELLIOT
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10000
0
100
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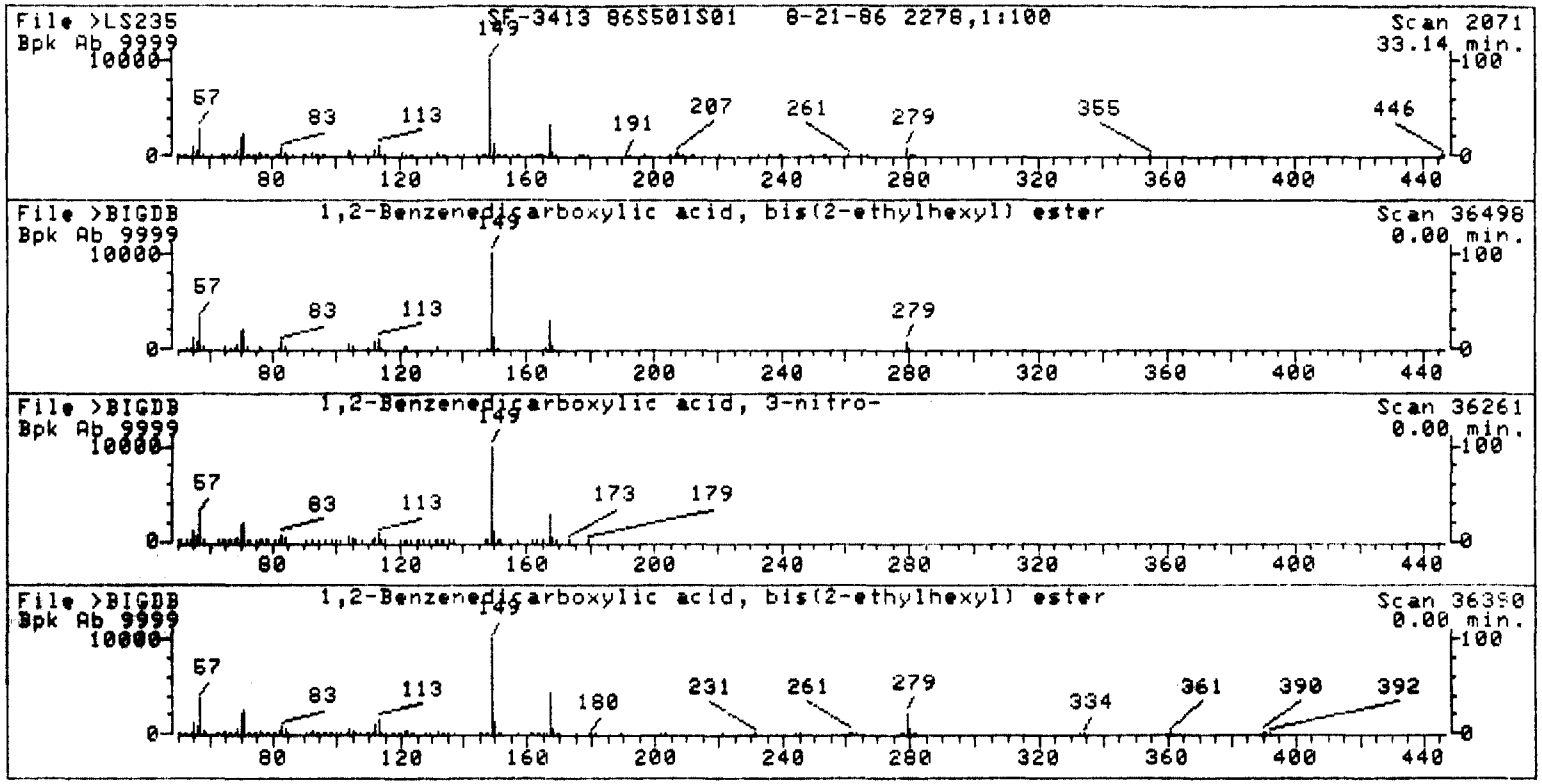
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113
191
207
261
279
355
446
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1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36498
0.00 min.
149
57
83
113
279
File >BIGDB
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1,2-Benzenedicarboxylic acid, 3-nitro-
Scan 36261
0.00 min.
149
57
83
113
173
179
File >BIGDB
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1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36390
0.00 min.
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57
83
113
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390
392
10000
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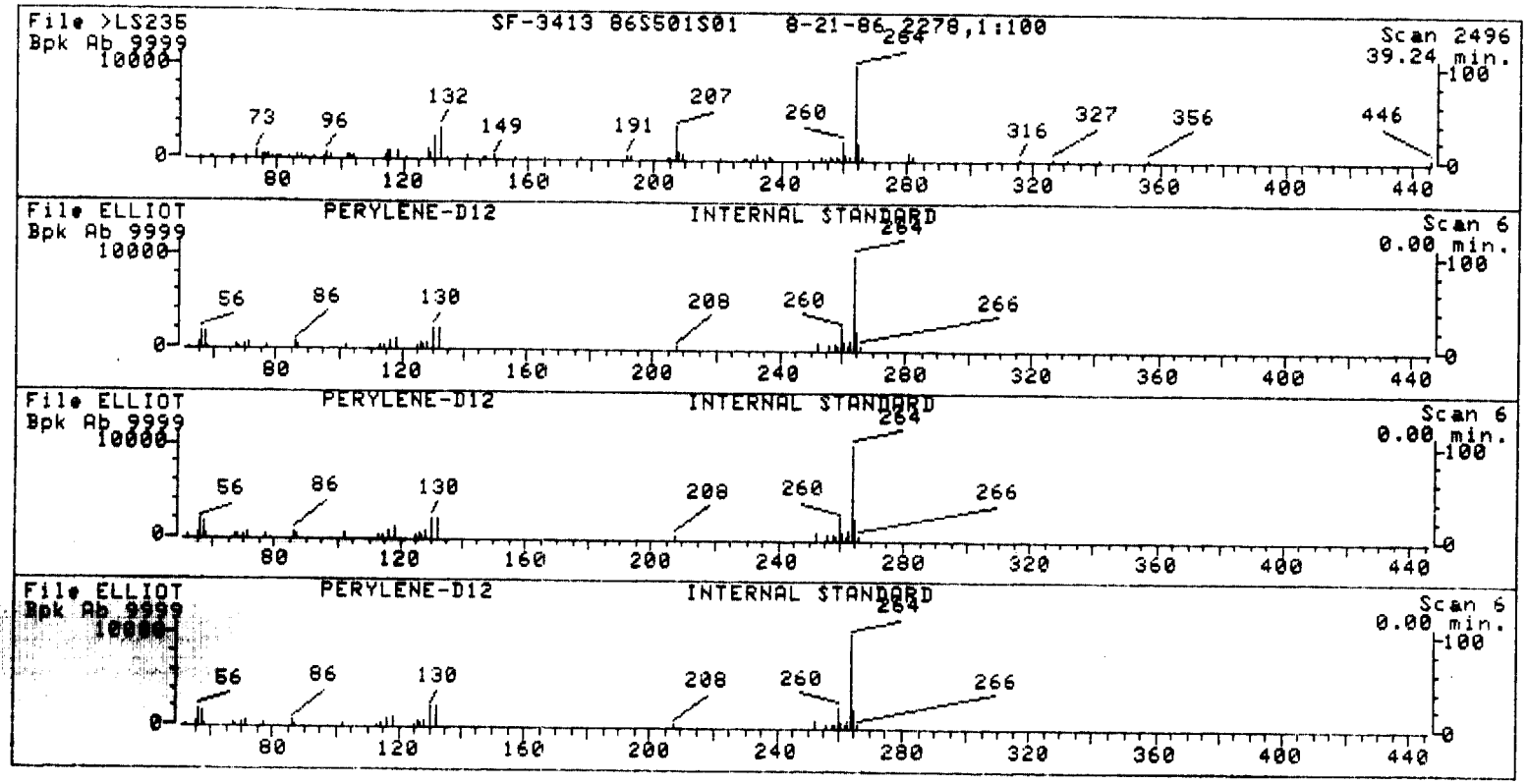
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PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
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File ELLIOT
Bpk Ab 9999
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
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PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
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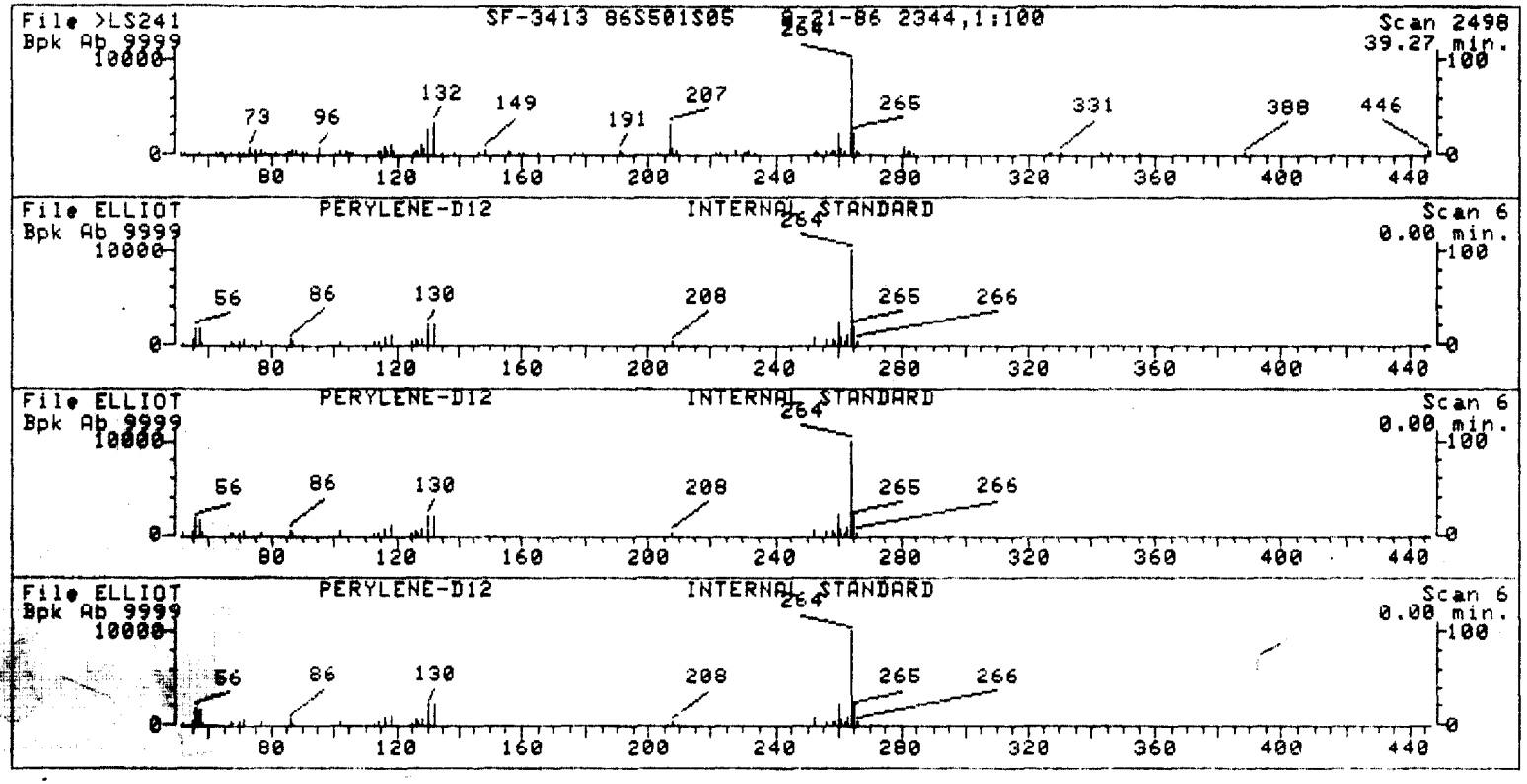
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File ELLIOT
Bpk Ab 9999
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 265 266
File ELLIOT
Bpk Ab 9999
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 265 266
File ELLIOT
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PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
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10000
100
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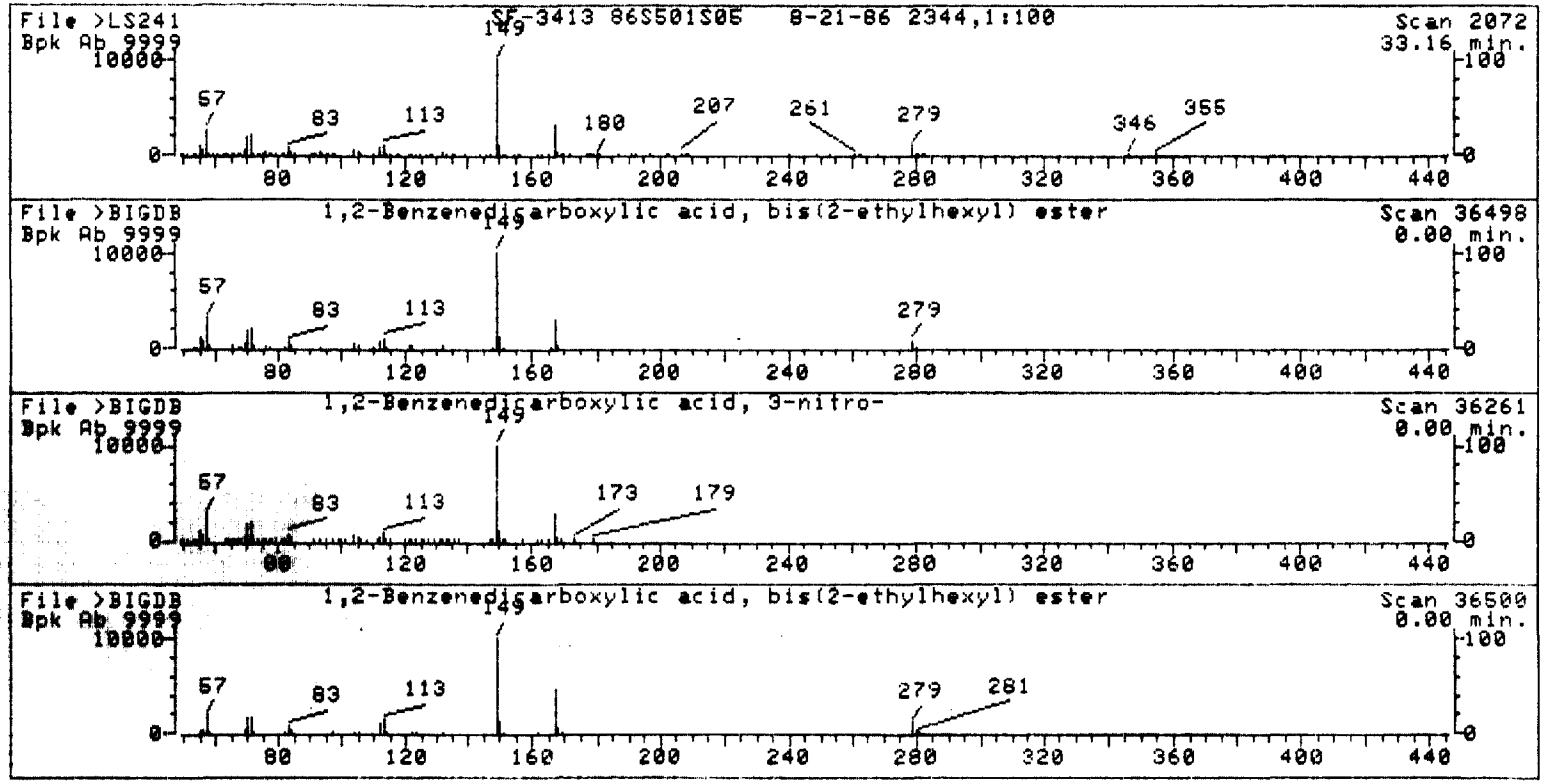
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57
83
113
149
180
207
261
279
346
355
80
120
160
200
240
280
320
360
400
440
File >BIGDB
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10000
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1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36498
0.00 min.
100
0
57
83
113
149
279
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, 3-nitro-
Scan 36261
0.00 min.
100
0
57
83
113
149
173
179
80
120
160
200
240
280
320
360
400
440
File >BIGDB
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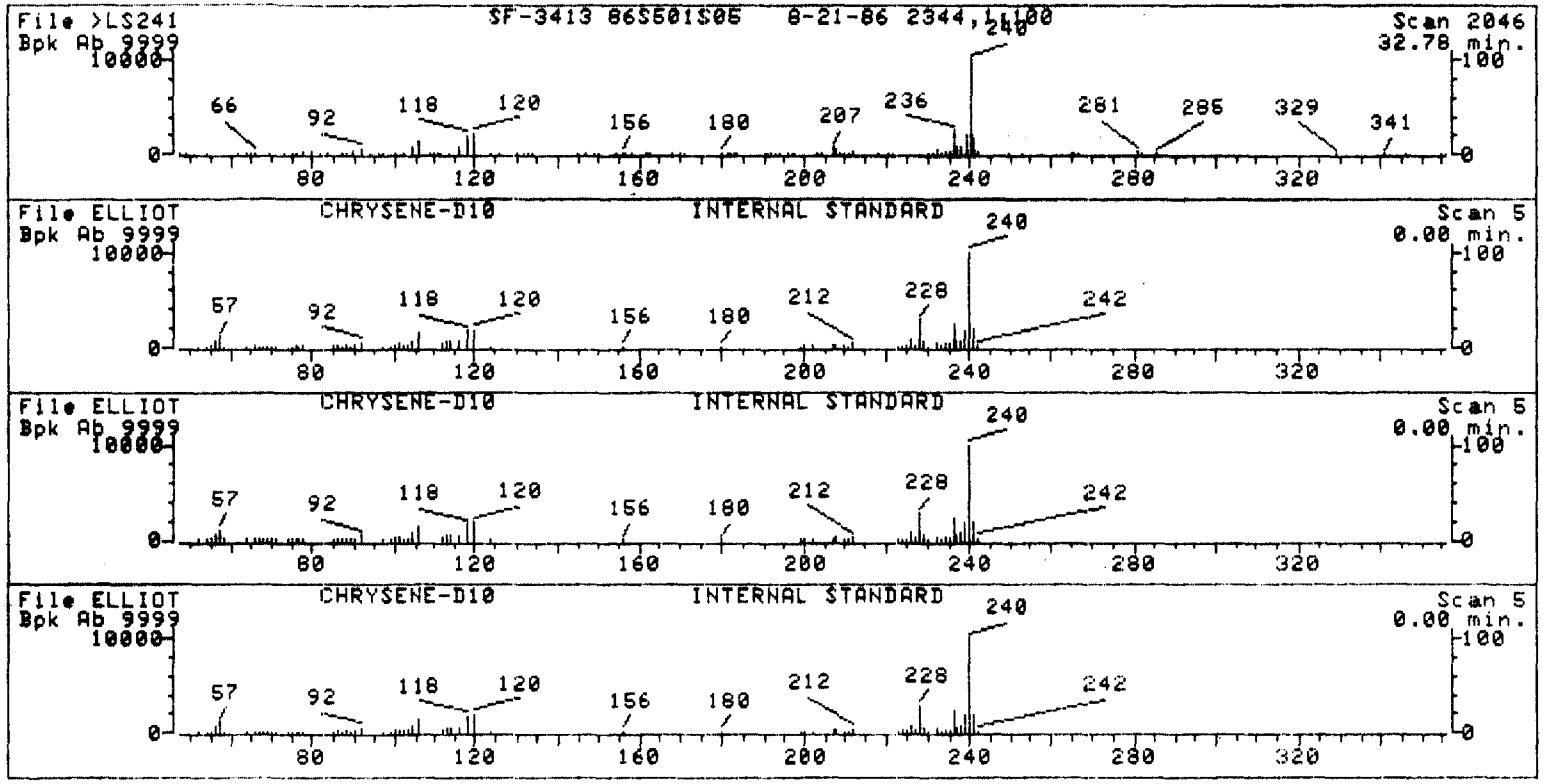
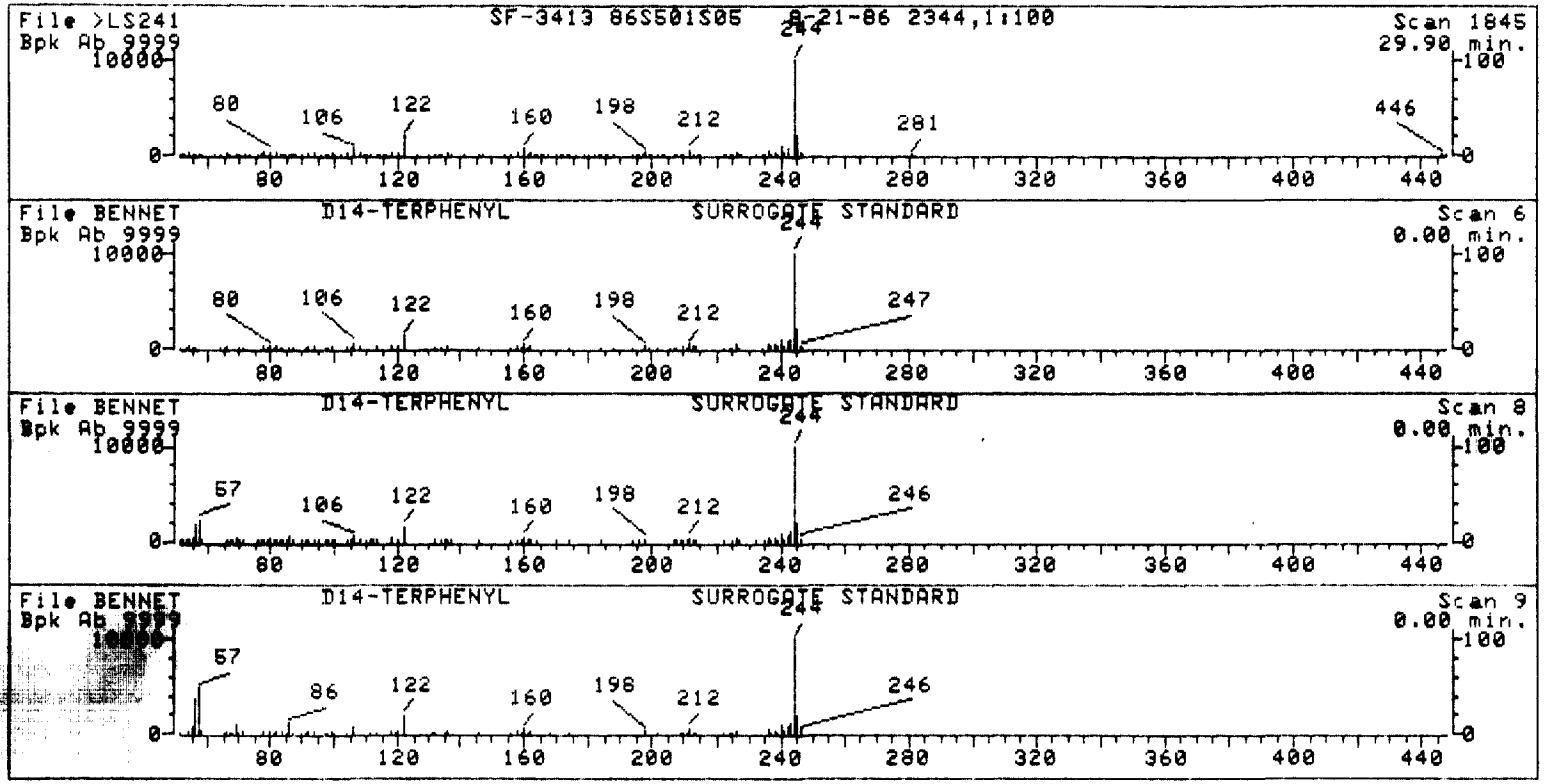
10000
0
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36500
0.00 min.
100
0
57
83
113
149
279
281
80
120
160
200
240
280
320
360
400
440


File >LS241
Bpk Ab 9999
SF-3413 86S501S05 8-21-86 2344,
Scan 2046
32.78 min.
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.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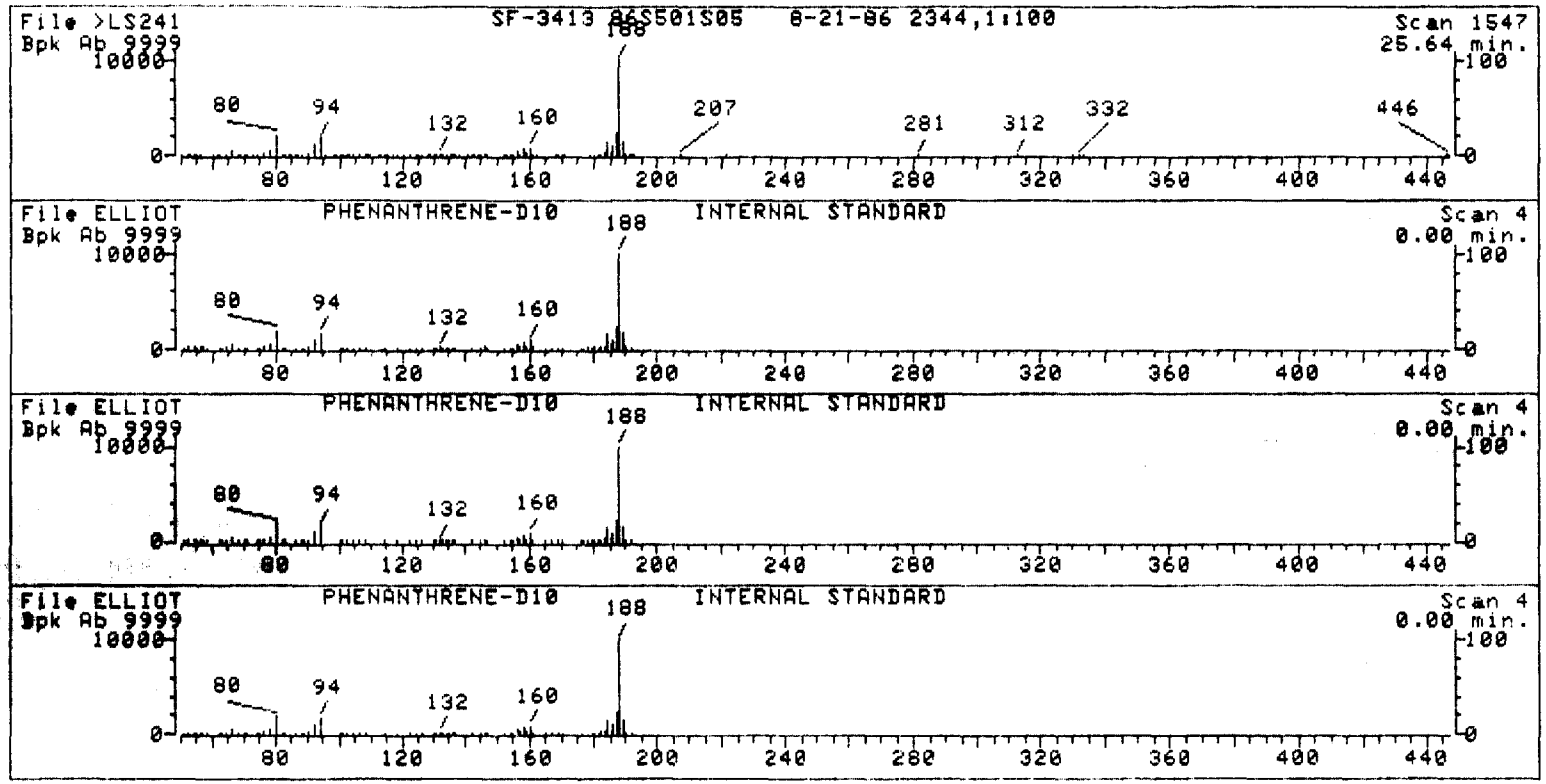
Bpk Ab 9999
SF-3413 86S501S05 8-21-86 2344,1:100
Scan 1845
29.90 min.
244
80 106 122 160 198 212 281 446
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 6
0.00 min.
244
80 106 122 160 198 212 247
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 8
0.00 min.
244
57 106 122 160 198 212 246
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 9
0.00 min.
244
57 86 122 160 198 212 246
10000
0
100
80 120 160 200 240 280 320 360 400 440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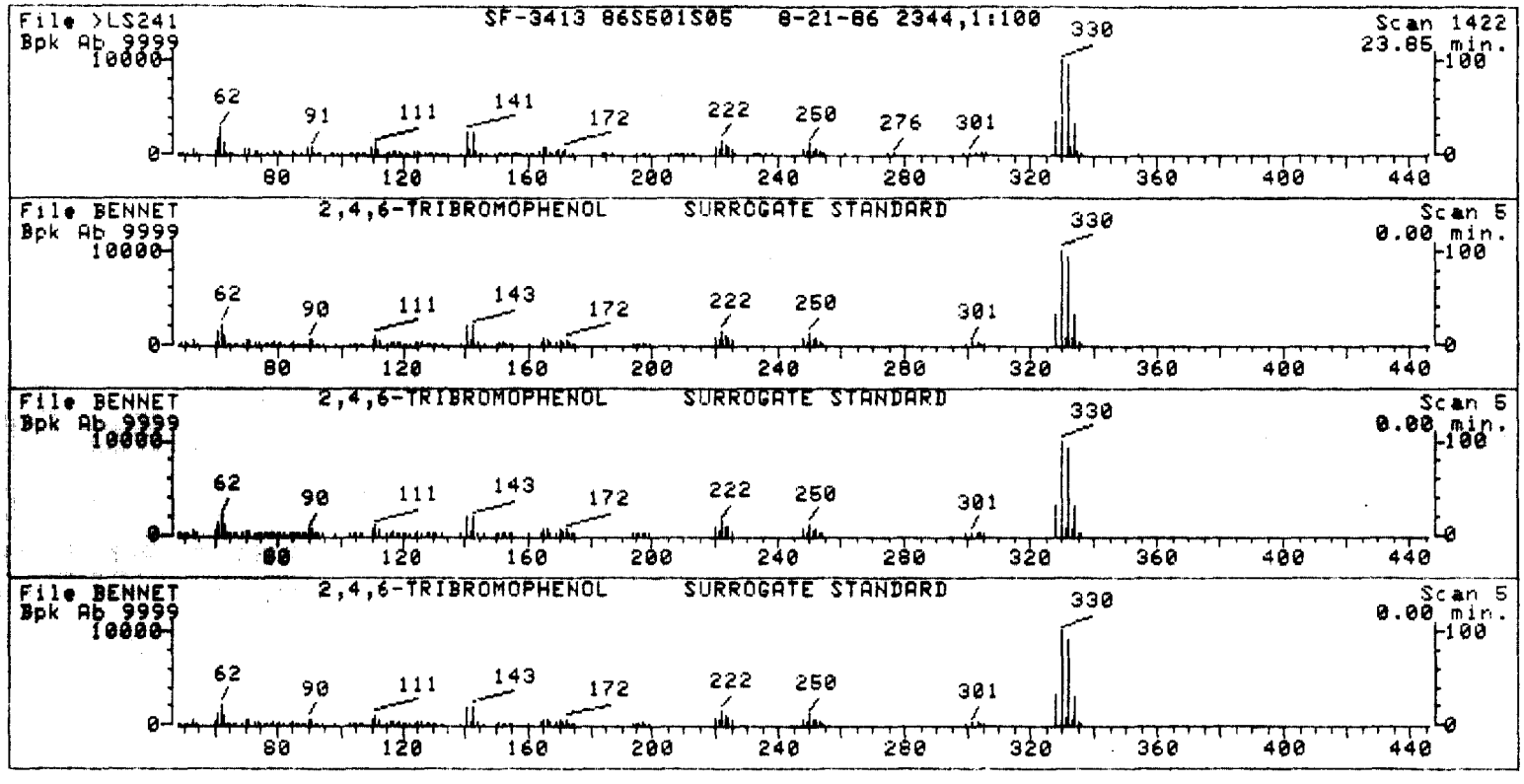
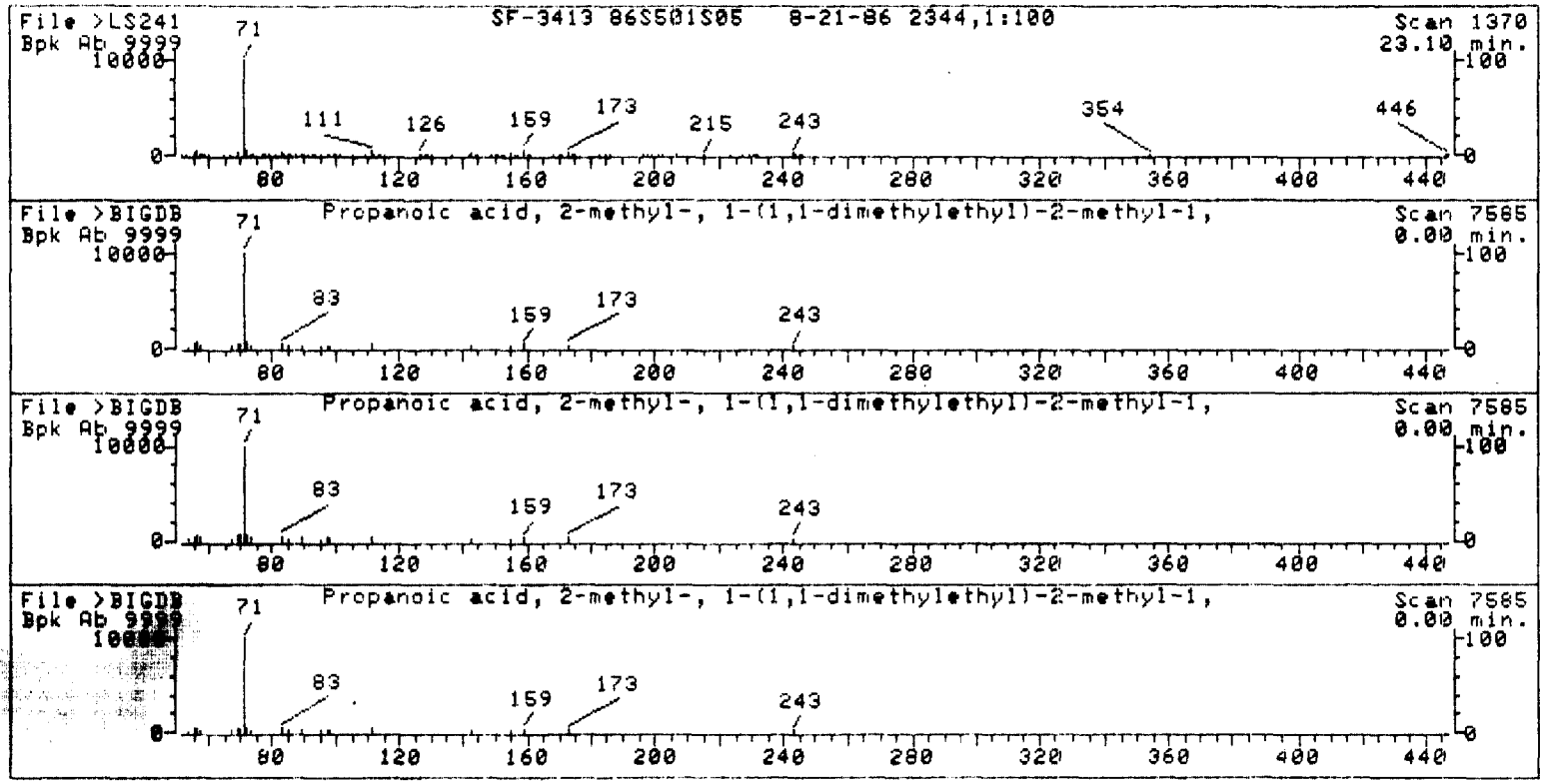
Bpk Ab 9999
SF-3413 86S501S05 8-21-86 2344,1:100
Scan 1547
25.64 min.
188
80
94
132
160
207
281
312
332
446
File ELLIOT
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.


File >LS241
Bpk Ab 9999
10000
0
SF-3413 86S601S05 8-21-86 2344,1:100
Scan 1422
23.85 min.
100
0
62
91
111
141
172
222
250
276
301
330
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
100
0
62
90
111
143
172
222
250
301
330
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
100
0
62
90
111
143
172
222
250
301
330
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
100
0
62
90
111
143
172
222
250
301
330
80
120
160
200
240
280
320
360
400
440


File >LS241
Bpk Ab 9999
10000
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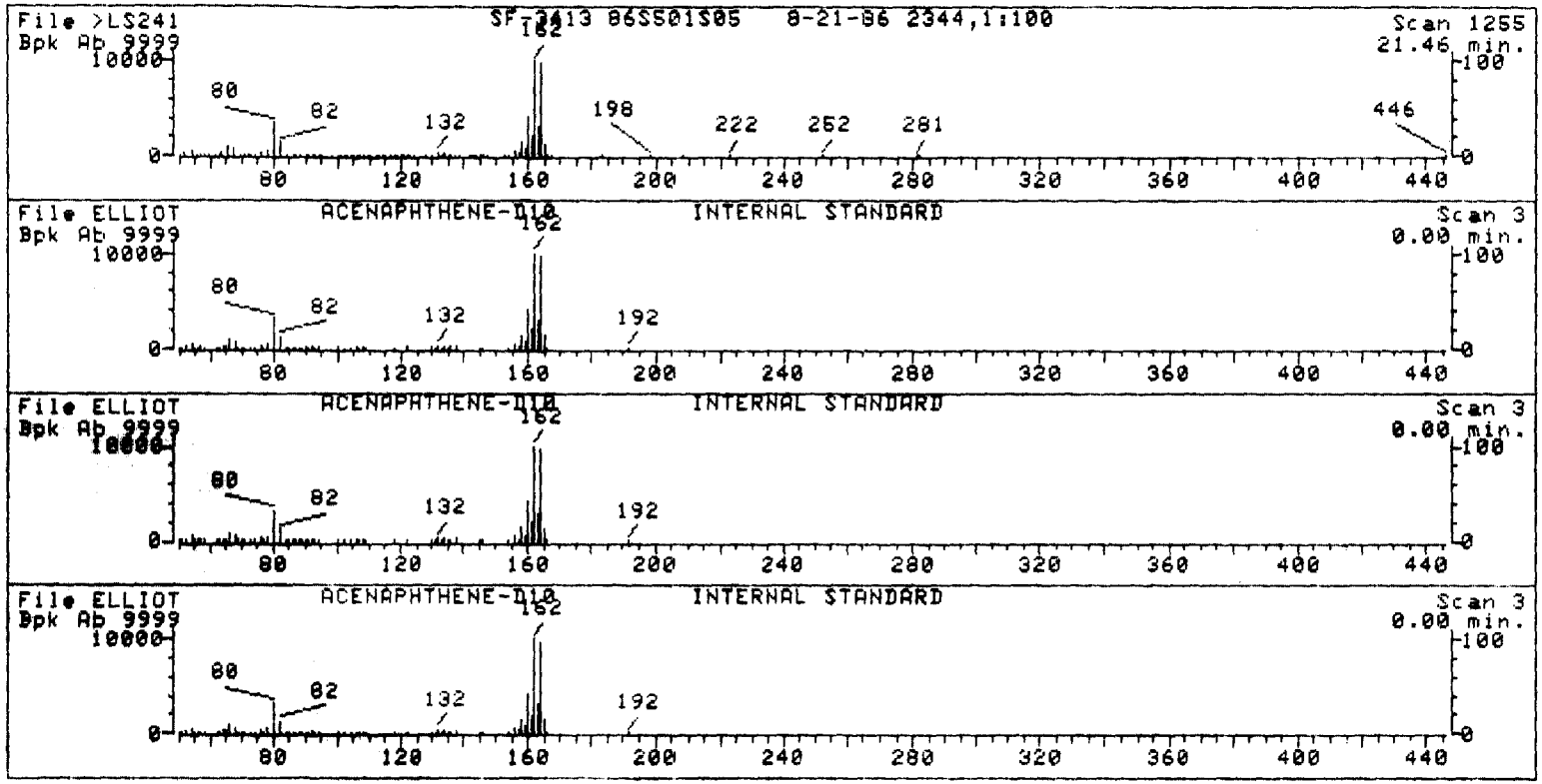
SF-3413 86S501S05 8-21-86 2344,1:100
Scan 1370
23.10 min.
100
0
71
111
126
159
173
215
243
354
446
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
83
159
173
243
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
83
159
173
243
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
83
159
173
243
80 120 160 200 240 280 320 360 400 440


File >LS241
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10000
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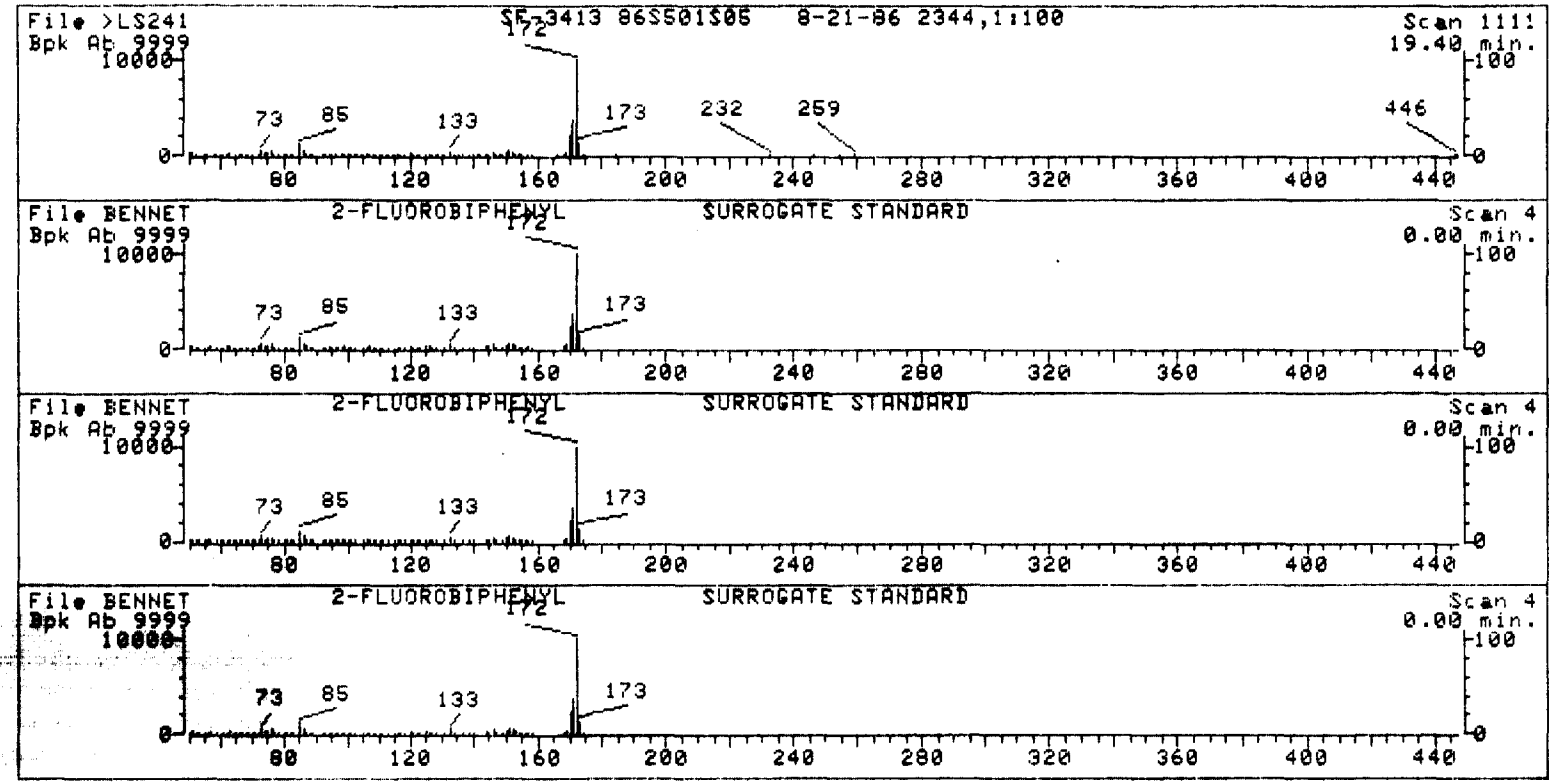
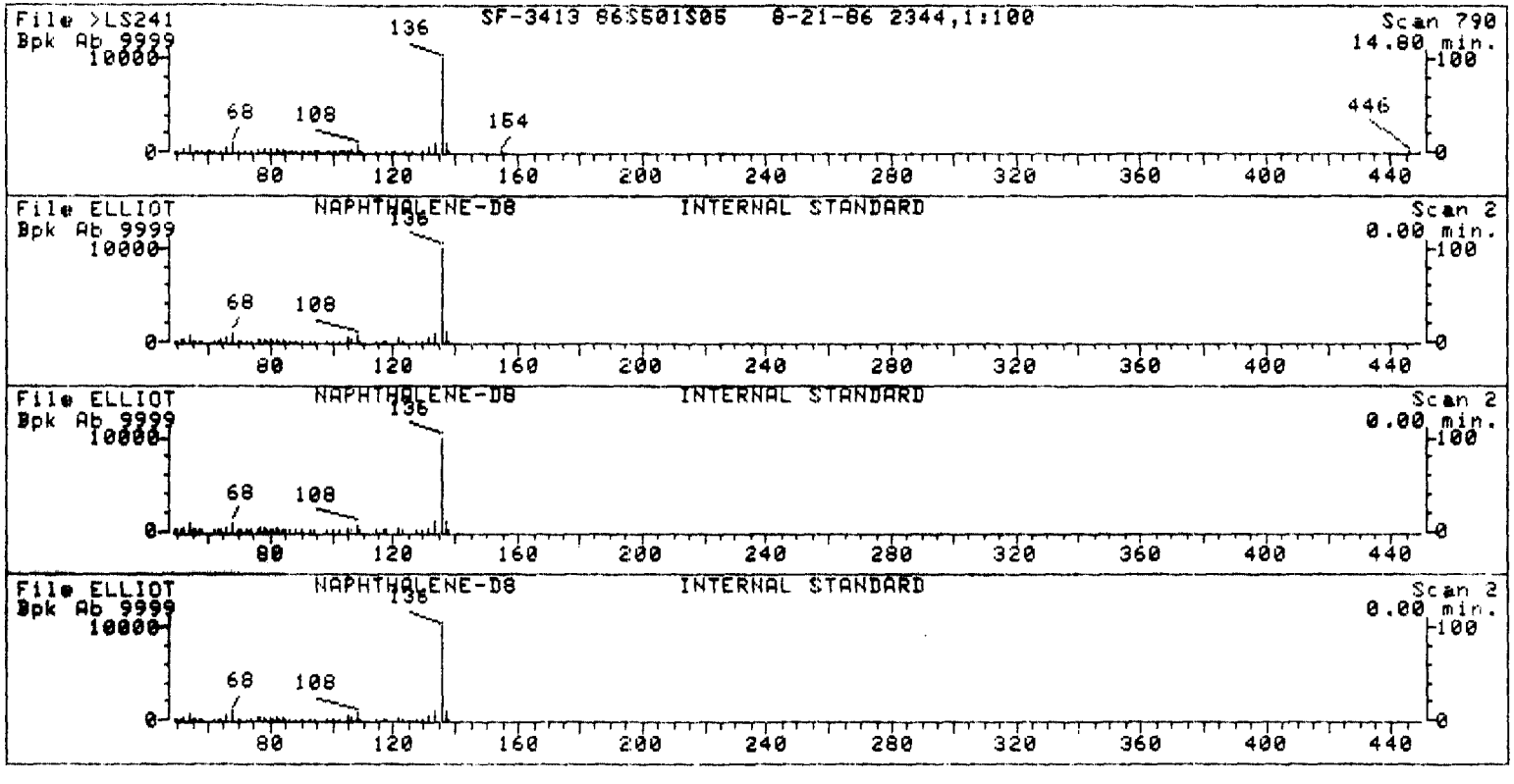
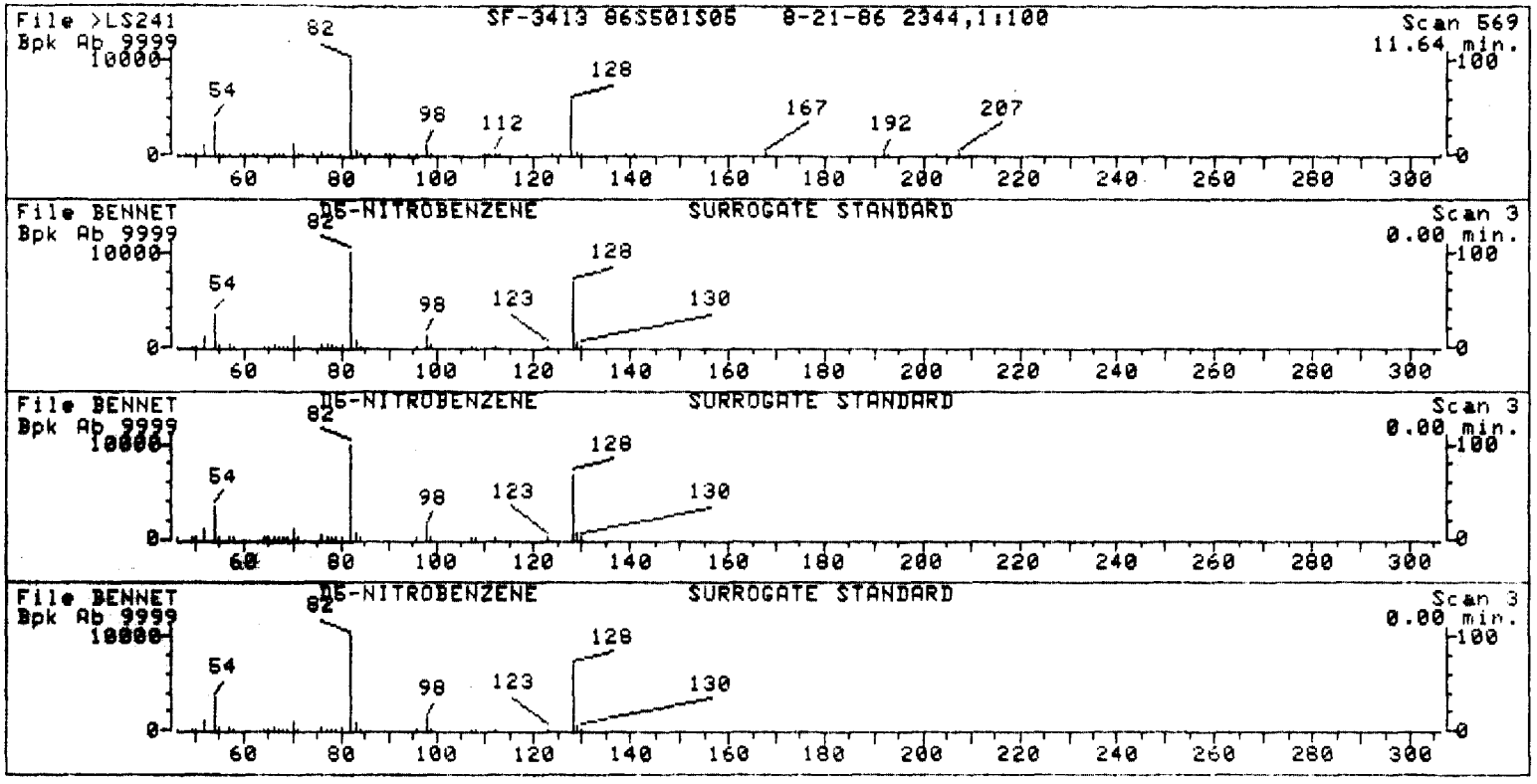
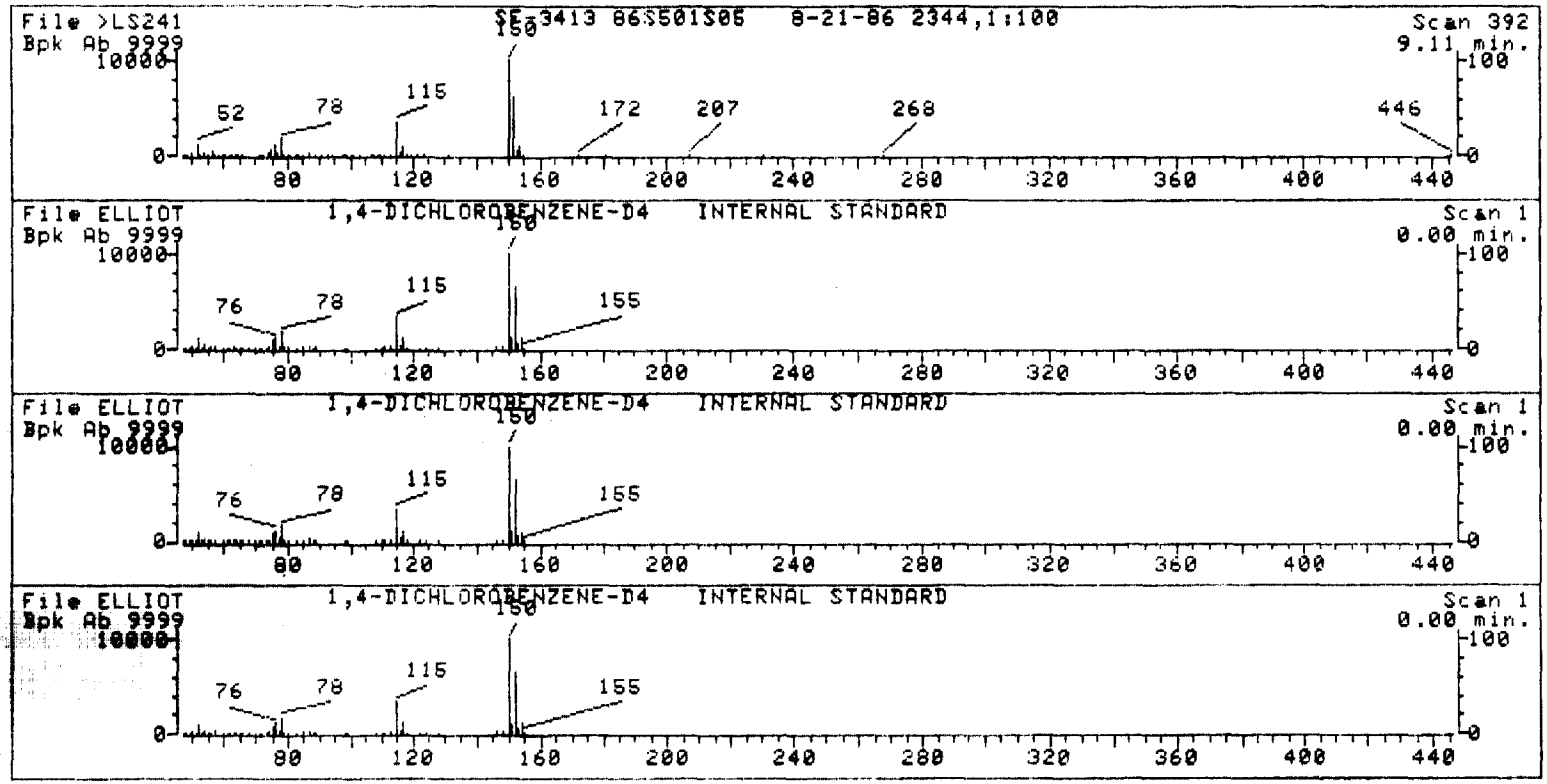
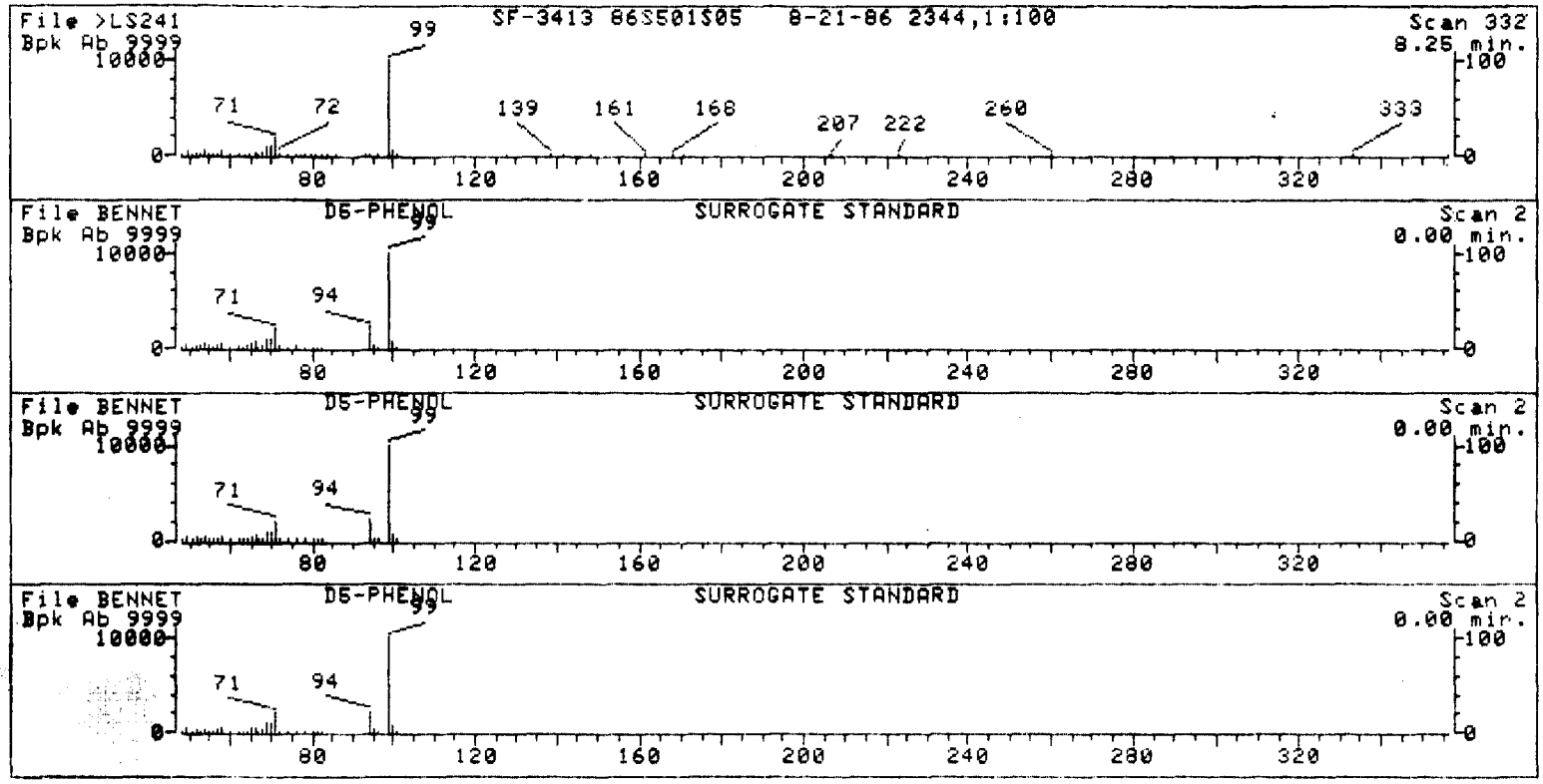
SF 3413 86SS01S05 8-21-86 2344,1:100
Scan 1255
21.46 min.
100
0
162
80
82
132
198
222
252
281
446
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
100
0
162
80
82
132
192
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
100
0
162
80
82
132
192
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
100
0
162
80
82
132
192
80 120 160 200 240 280 320 360 400 440

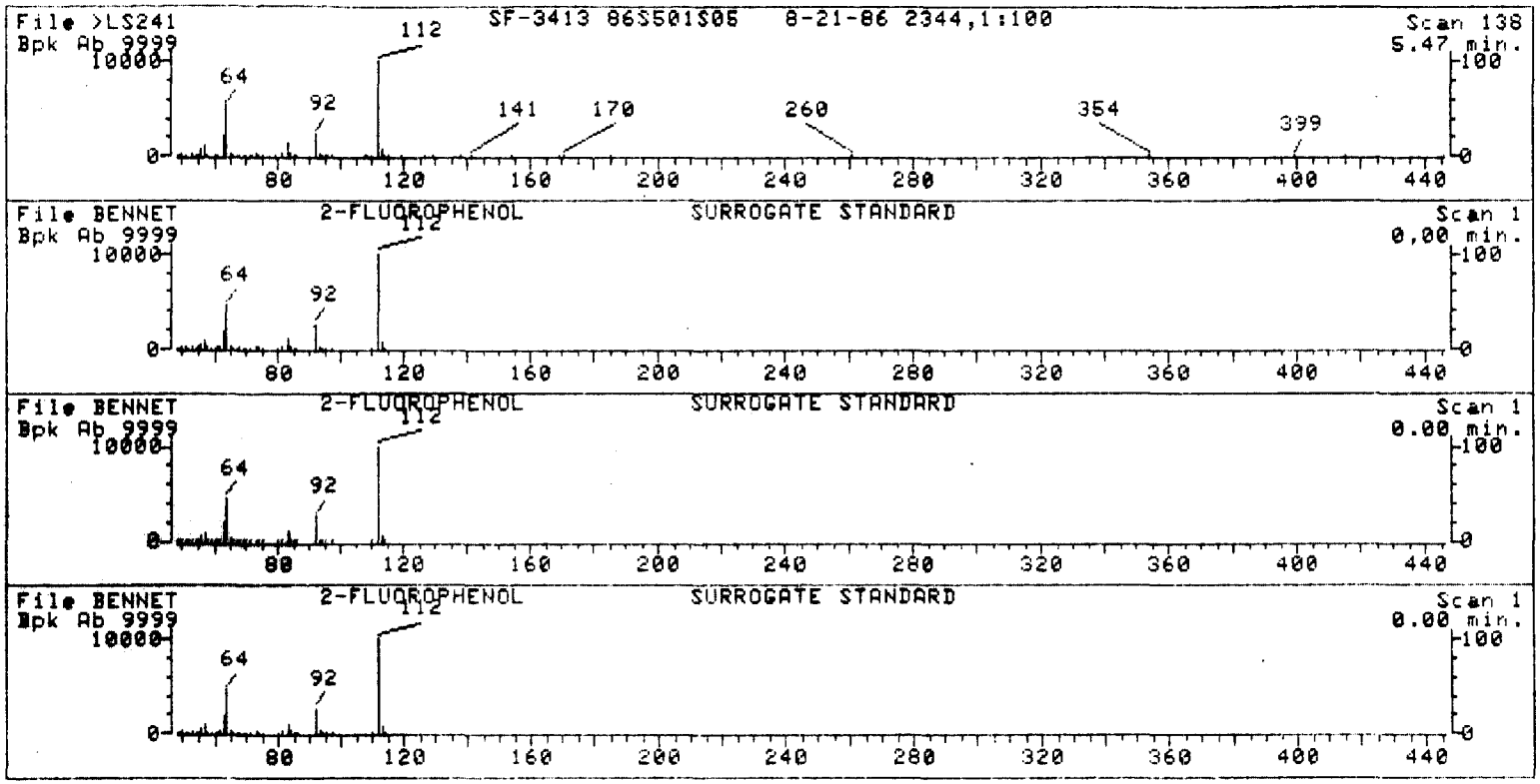

File >LS241
SF-3413 86S501S06 8-21-86 2344,1:100
Scan 1111
19.40 min.
Bpk Ab 9999
10000
172
73
85
133
173
232
259
446
0
80
120
160
200
240
280
320
360
400
440
100
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
Bpk Ab 9999
10000
172
73
85
133
173
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
Bpk Ab 9999
10000
172
73
85
133
173
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
Bpk Ab 9999
10000
172
73
85
133
173

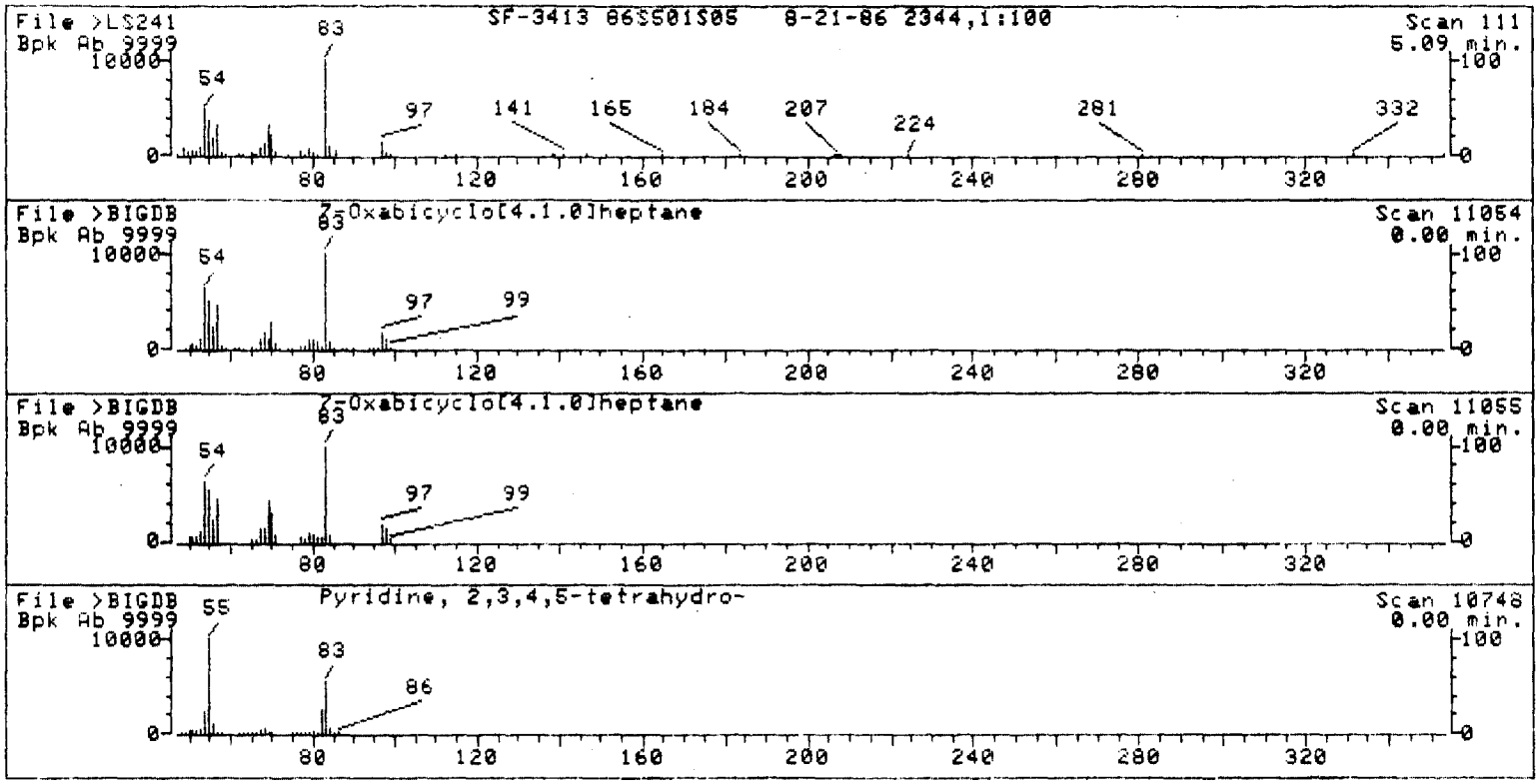

File >LS241
Bpk Ab 9999
10000
0
SF-3413 86S501S05 8-21-86 2344,1:100
Scan 790
14.80 min.
100
0
136
68
108
154
446
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
100
0
136
68
108
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
100
0
136
68
108
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
100
0
136
68
108
80
120
160
200
240
280
320
360
400
440

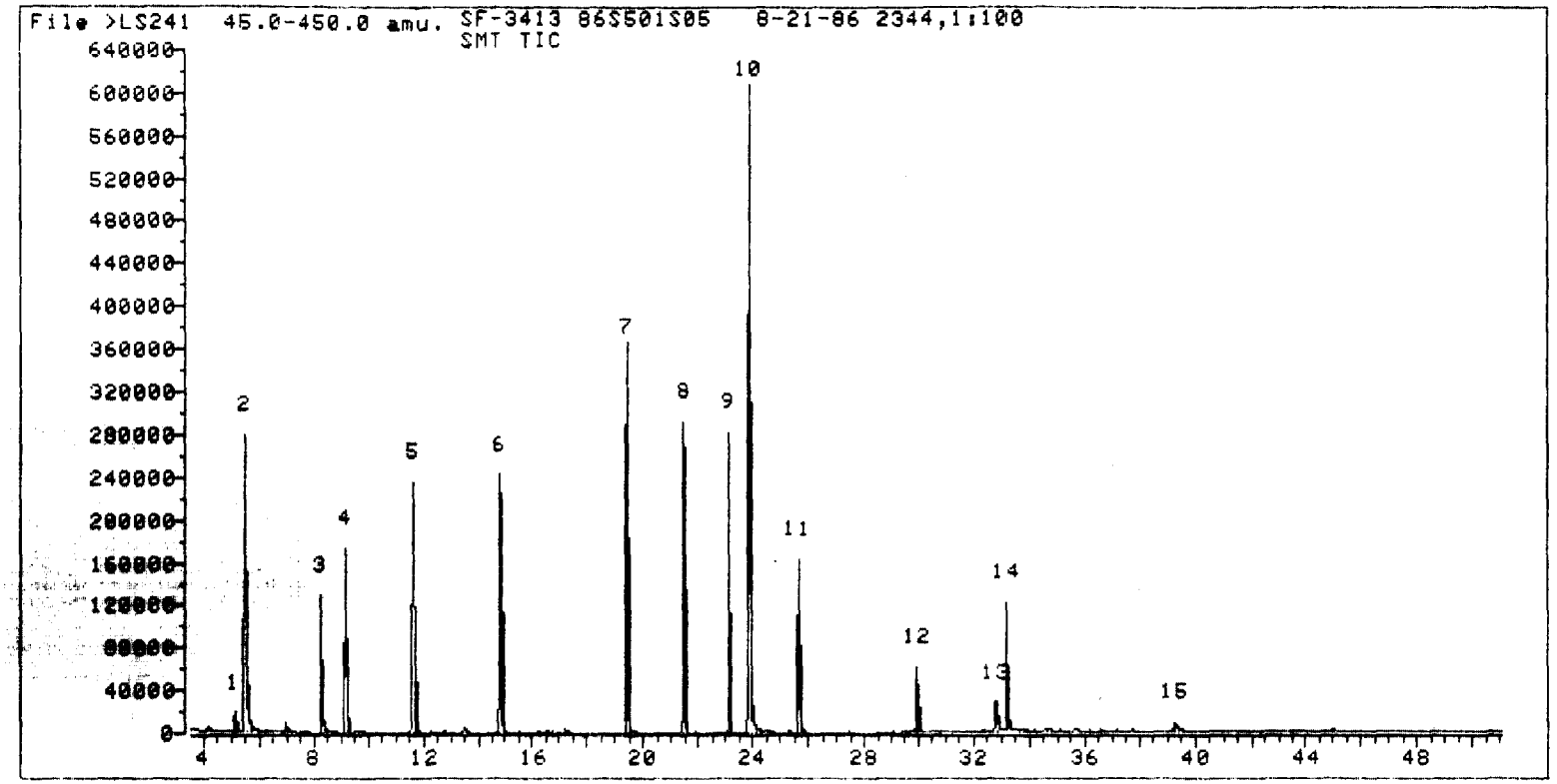

File >LS241
Bpk Ab 9999
10000
SF-3413 86S501S06 8-21-86 2344,1:100
Scan 569
11.64 min.
82
54
98
112
128
167
192
207
File BENNET
Bpk Ab 9999
10000
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
54
98
123
128
130
File BENNET
Bpk Ab 9999
10000
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
54
98
123
128
130
File BENNET
Bpk Ab 9999
10000
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
54
98
123
128
130
0
100
60
80
100
120
140
160
180
200
220
240
260
280
300


File >LS241
Bpk Ab 9999
SE-3413 86S501S06 8-21-86 2344,1:100
Scan 392
9.11 min.
52
78
115
150
172
207
268
446
File ELLIOT
Bpk Ab 9999
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
76
78
115
150
155
File ELLIOT
Bpk Ab 9999
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
76
78
115
150
155
File ELLIOT
Bpk Ab 9999
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
76
78
115
150
155


File >LS241
Bpk Ab 9999
SF-3413 86S501S05 8-21-86 2344,1:100
Scan 332
8.25 min.
99
71
72
139
161
168
207
222
260
333
File BENNET
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
94
10000
0
100
80
120
160
200
240
280
320


File >LS241
Bpk Ab 9999
10000
0
SF-3413 86S501S05 8-21-86 2344,1:100
Scan 138
5.47 min.
100
0
112
64
92
141
170
260
354
399
80
120
160
200
240
280
320
360
400
440
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.

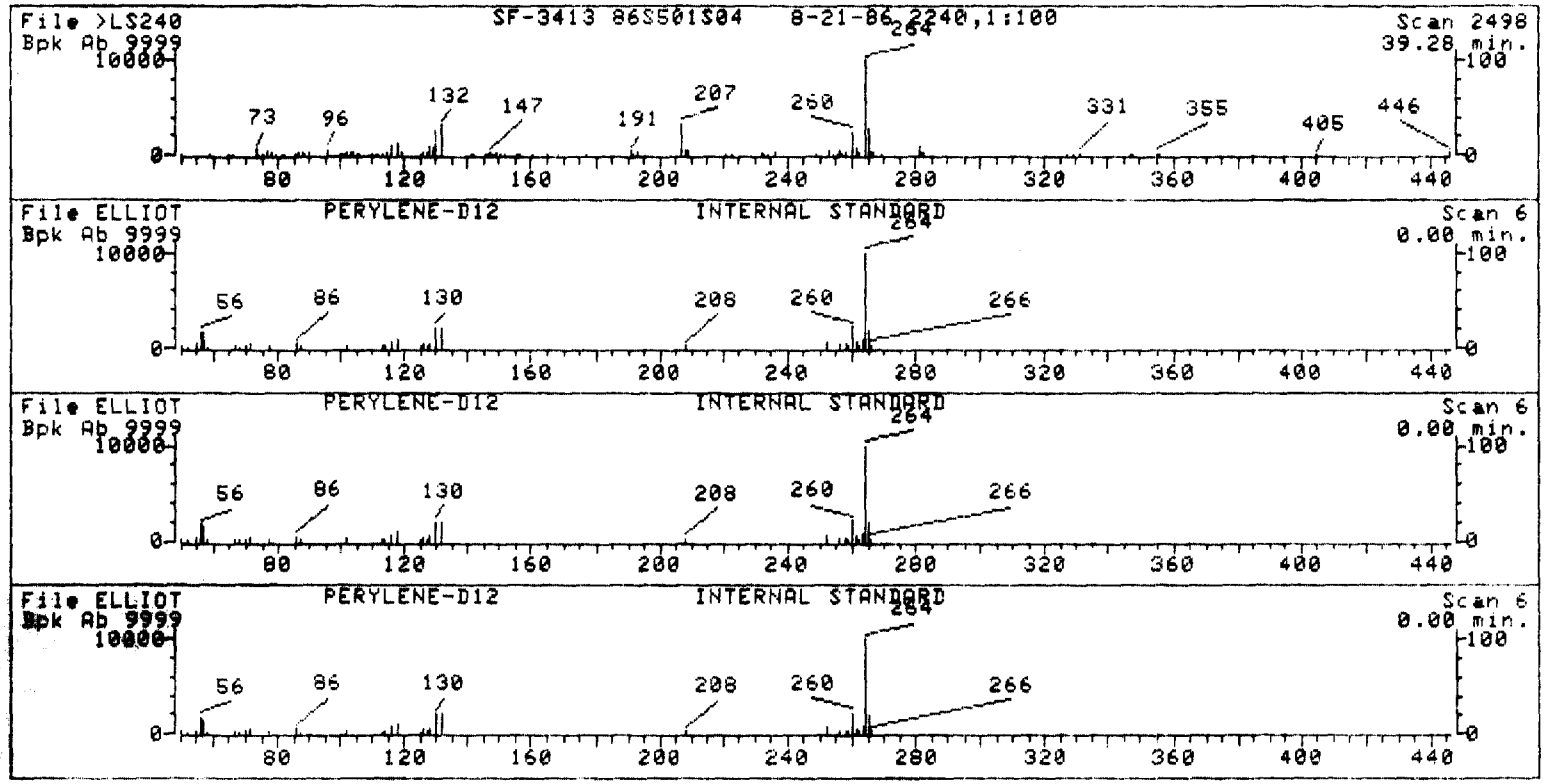

File >LS241
Bpk Ab 9999
SF-3413 86S501S05 8-21-86 2344,1:100
Scan 111
5.09 min.
File >BIGDB
7-Oxabicyclo[4.1.0]heptane
Scan 11054
0.00 min.
File >BIGDB
7-Oxabicyclo[4.1.0]heptane
Scan 11055
0.00 min.
File >BIGDB
Pyridine, 2,3,4,5-tetrahydro-
Scan 10748
0.00 min.


File >LS241 45.0-450.0 amu. SF-3413 86S501S05 8-21-86 2344,1:100
SMT TIC
640000
600000
560000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
4
8
12
16
20
24
28
32
36
40
44
48
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

>LS241 SF-3413 86S501S05 8-21-86 2344,1:100
45.01 450.0 SMT TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.085	106	111	124	17643	104698	76661	2.78	.617
2	5.472	132	138	157	278897	1335821	1296716	47.09	10.433
3	8.249	326	332	354	128817	615046	591222	21.47	4.757
4	9.108	385	392	404	172329	711704	697998	25.35	5.616
5	11.641	559	569	581	234704	1144490	1128728	40.99	9.081
6	14.803	781	790	802	242213	1040864	1029841	37.40	8.286
7	19.395	1104	1111	1121	365309	1297642	1287691	46.77	10.360
8	21.455	1249	1255	1273	291334	1102686	1085127	39.41	8.730
9	23.101	1364	1370	1375	281526	880796	875034	31.78	7.040
10	23.846	1412	1422	1457	606882	2786761	2753405	100.00	22.153
11	25.637	1538	1547	1575	162100	663127	643021	23.35	5.173
12	29.902	1838	1845	1855	62031	259916	239871	8.71	1.930
13	32.783	2038	2046	2057	26524	195371	144656	5.25	1.164
14	33.157	2062	2072	2085	119552	586638	513137	18.64	4.128
15	39.266	2488	2498	2509	6608	124719	66062	2.40	.532

Sum of corrected areas: 12429174.


File >LS240
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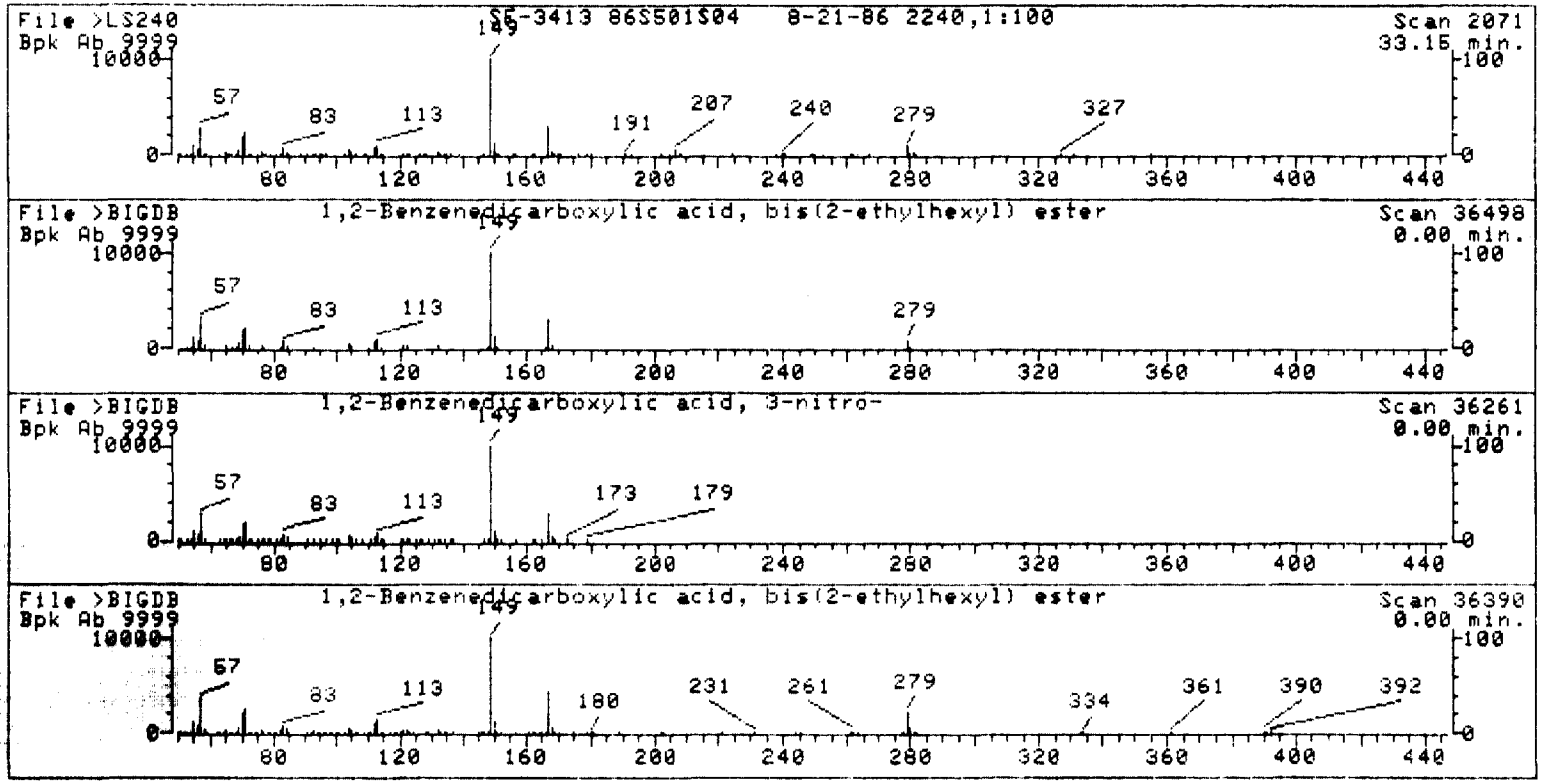
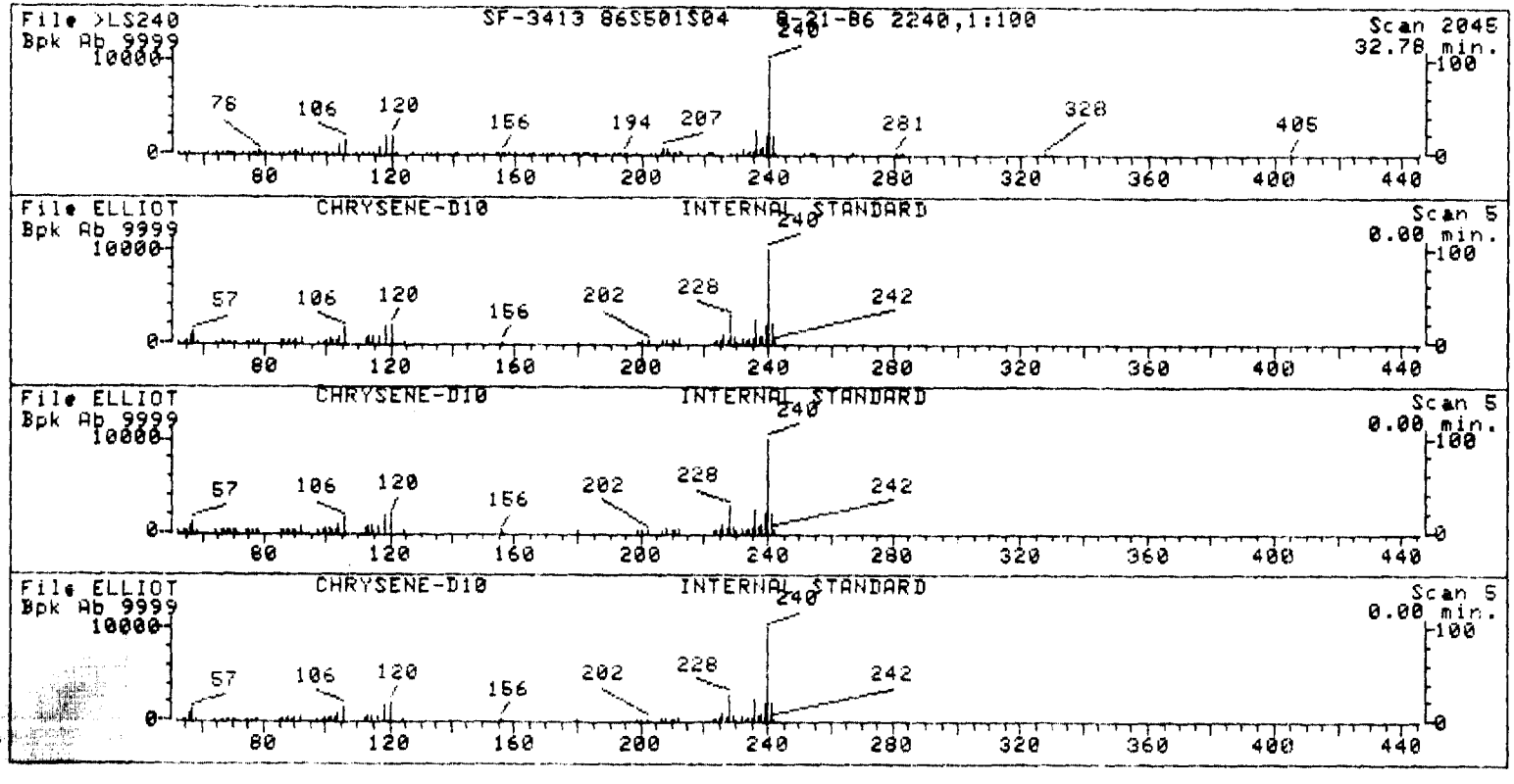
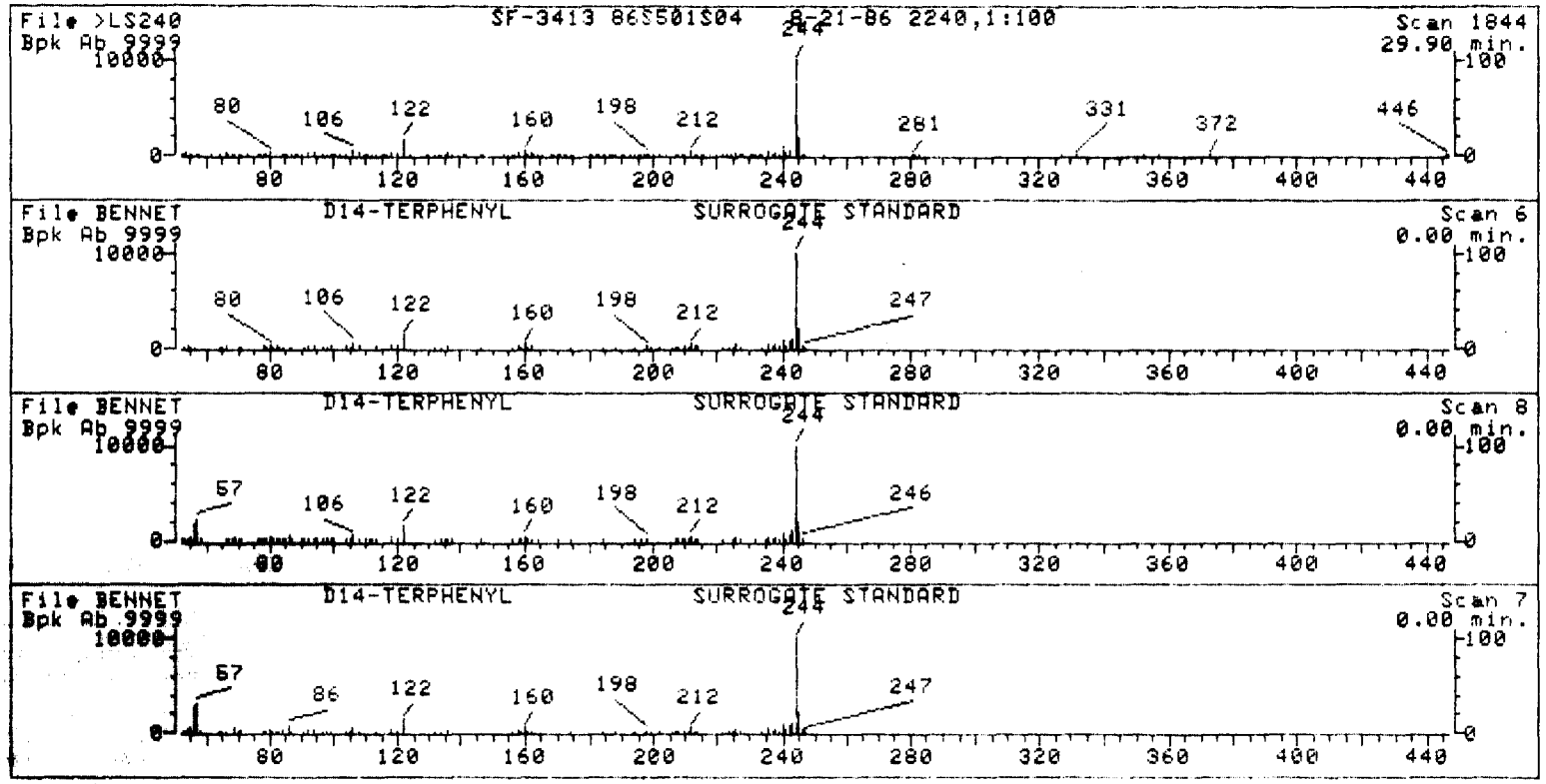
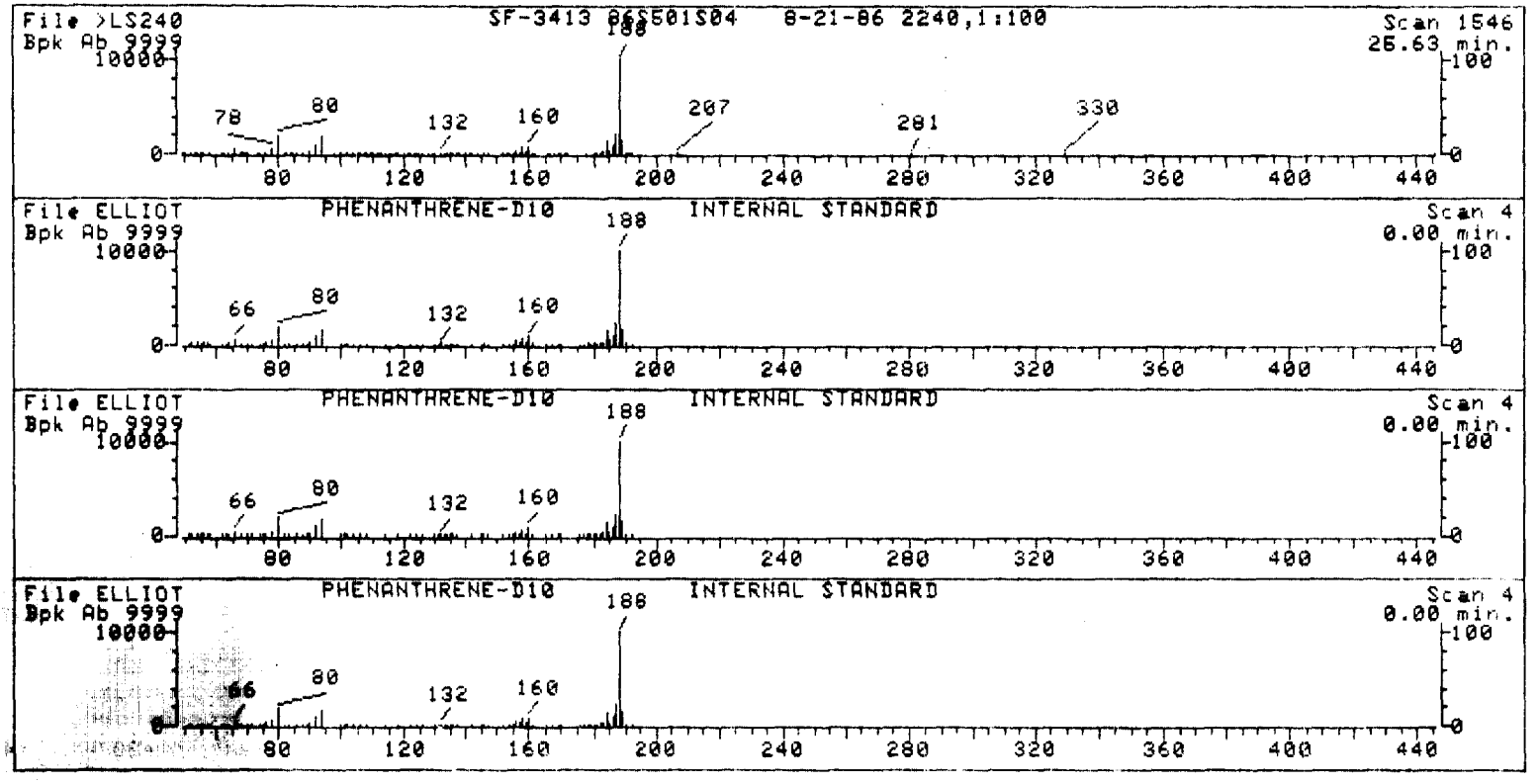
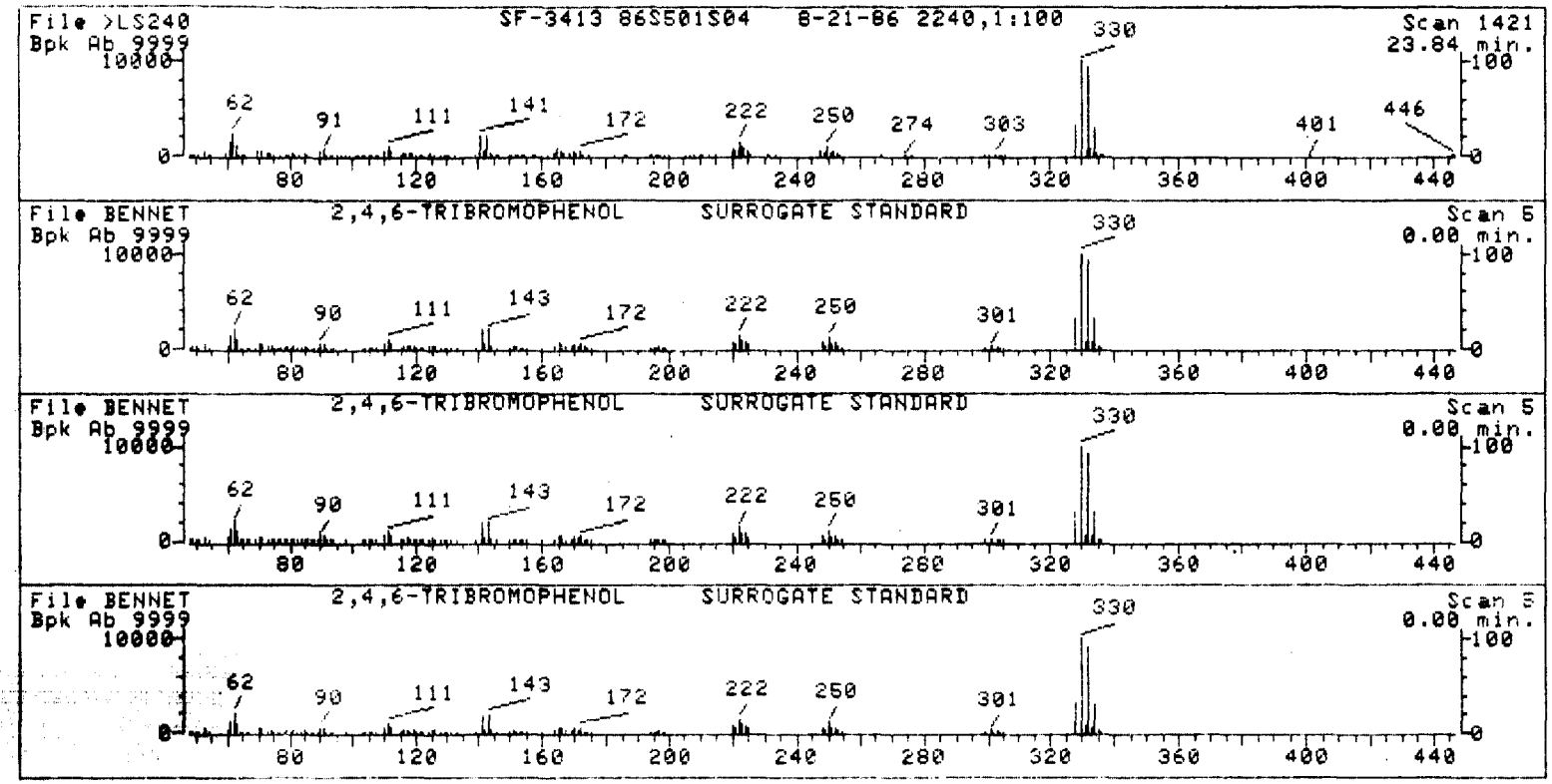
Scan 2498
39.28 min.
73 96 132 147 191 207 260 264 331 355 405 446
File ELLIOT
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 260 264 266
File ELLIOT
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 260 264 266
File ELLIOT
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 260 264 266

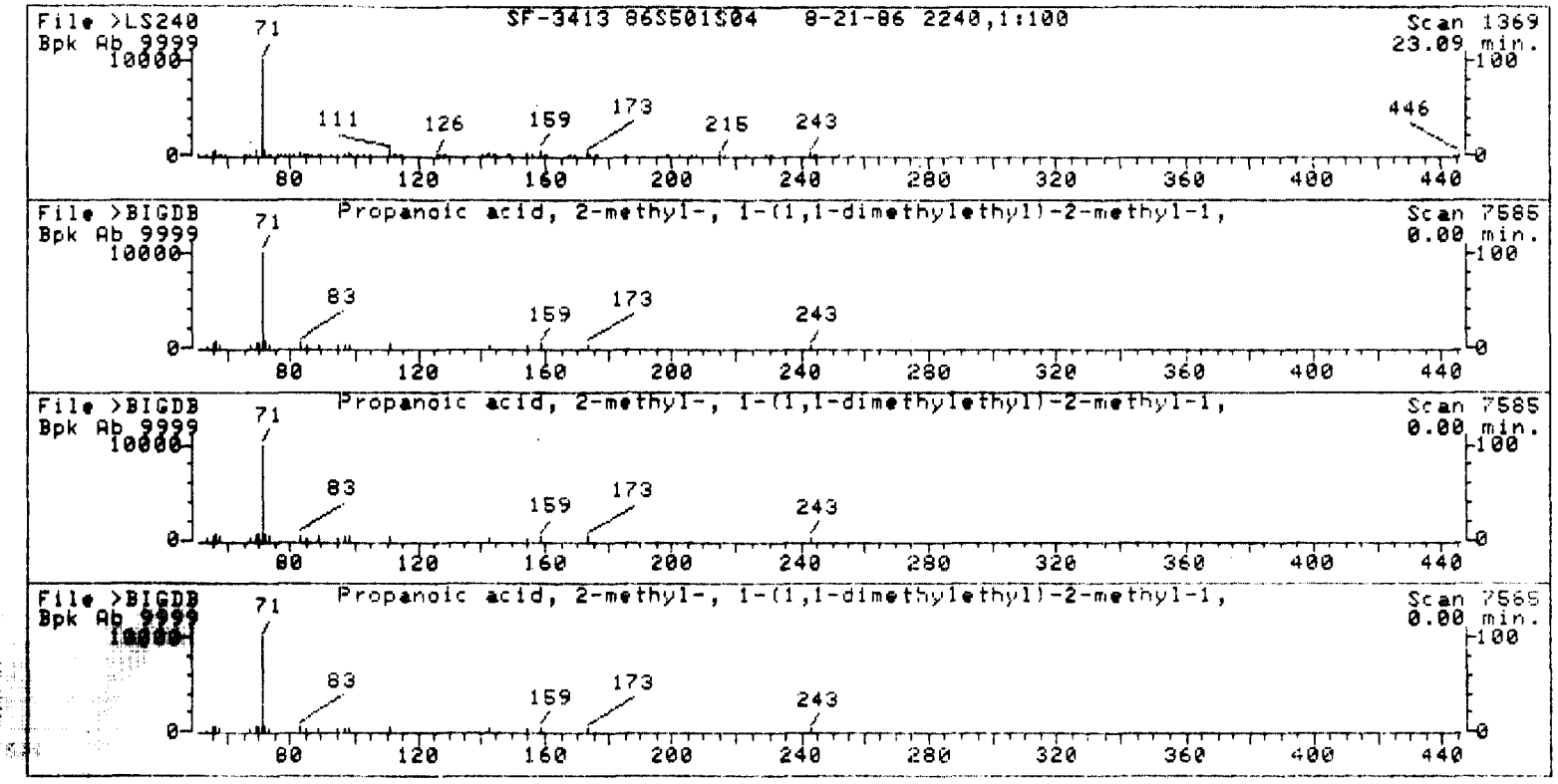

File >LS240
Bpk Ab 9999
SE-3413 86S501S04 8-21-86 2240,1:100
Scan 2071
33.15 min.
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
File >BIGDB
Bpk Ab 9999
Scan 36498
0.00 min.
1,2-Benzenedicarboxylic acid, 3-nitro-
File >BIGDB
Bpk Ab 9999
Scan 36261
0.00 min.
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
File >BIGDB
Bpk Ab 9999
Scan 36390
0.00 min.


File >LS240
Bpk Ab 9999
SF-3413 86S501S04 8-21-86 2240,1:100
Scan 2045
32.78 min.
240
76
106
120
156
194
207
281
328
405
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57
106
120
156
202
228
242
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57
106
120
156
202
228
242
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57
106
120
156
202
228
242


File >LS240
Bpk Ab 9999
SF-3413 86S501S04 8-21-86 2240,1:100
Scan 1844
29.90 min.
244
80 106 122 160 198 212 281 331 372 446
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 6
0.00 min.
244
80 106 122 160 198 212 247
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 8
0.00 min.
244
57 106 122 160 198 212 246
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 7
0.00 min.
244
57 86 122 160 198 212 247
10000
0
100
80 120 160 200 240 280 320 360 400 440


File >LS240
Bpk Ab 9999
10000
0
SF-3413 86S501S04 8-21-86 2240,1:100
Scan 1546
25.63 min.
100
0
188
78
80
132
160
207
281
330
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
188
66
80
132
160
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
188
66
80
132
160
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
188
66
80
132
160
80 120 160 200 240 280 320 360 400 440


File >LS240
Bpk Ab 9999
SF-3413 86S501S04 8-21-86 2240,1:100
Scan 1421
23.84 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.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Scan 1369
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71
111
126
159
173
215
243
446
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
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Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
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0.00 min.
100
0
71
83
159
173
243
80
120
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200
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280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
83
159
173
243
80
120
160
200
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280
320
360
400
440
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Bpk Ab 9999
10000
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Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
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83
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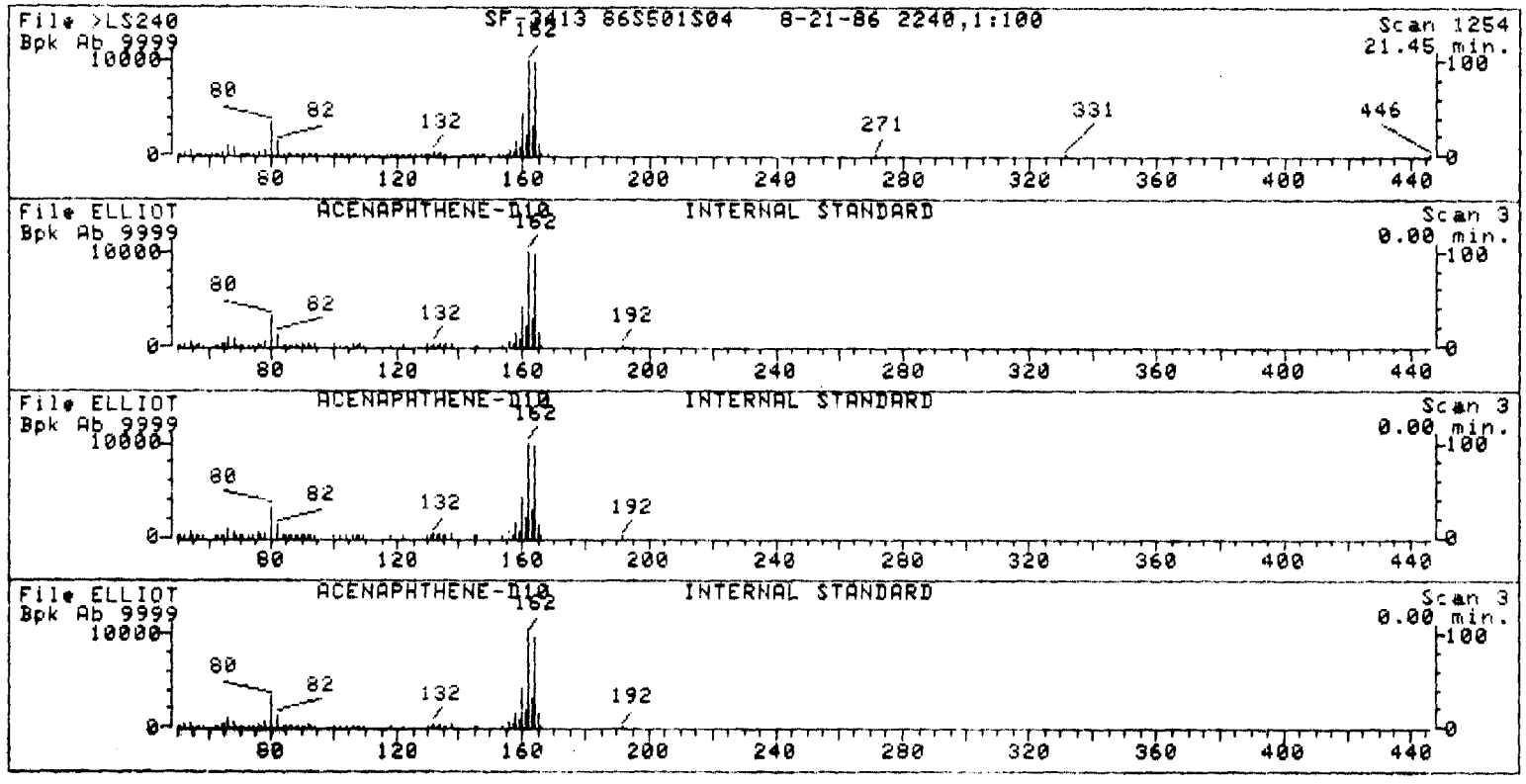
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SF 2413 86S501S04 8-21-86 2240,1:100
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21.45 min.
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100
0
80
82
132
162
271
331
446
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
10000
0
100
0
80
82
132
162
192
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
10000
0
100
0
80
82
132
162
192
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
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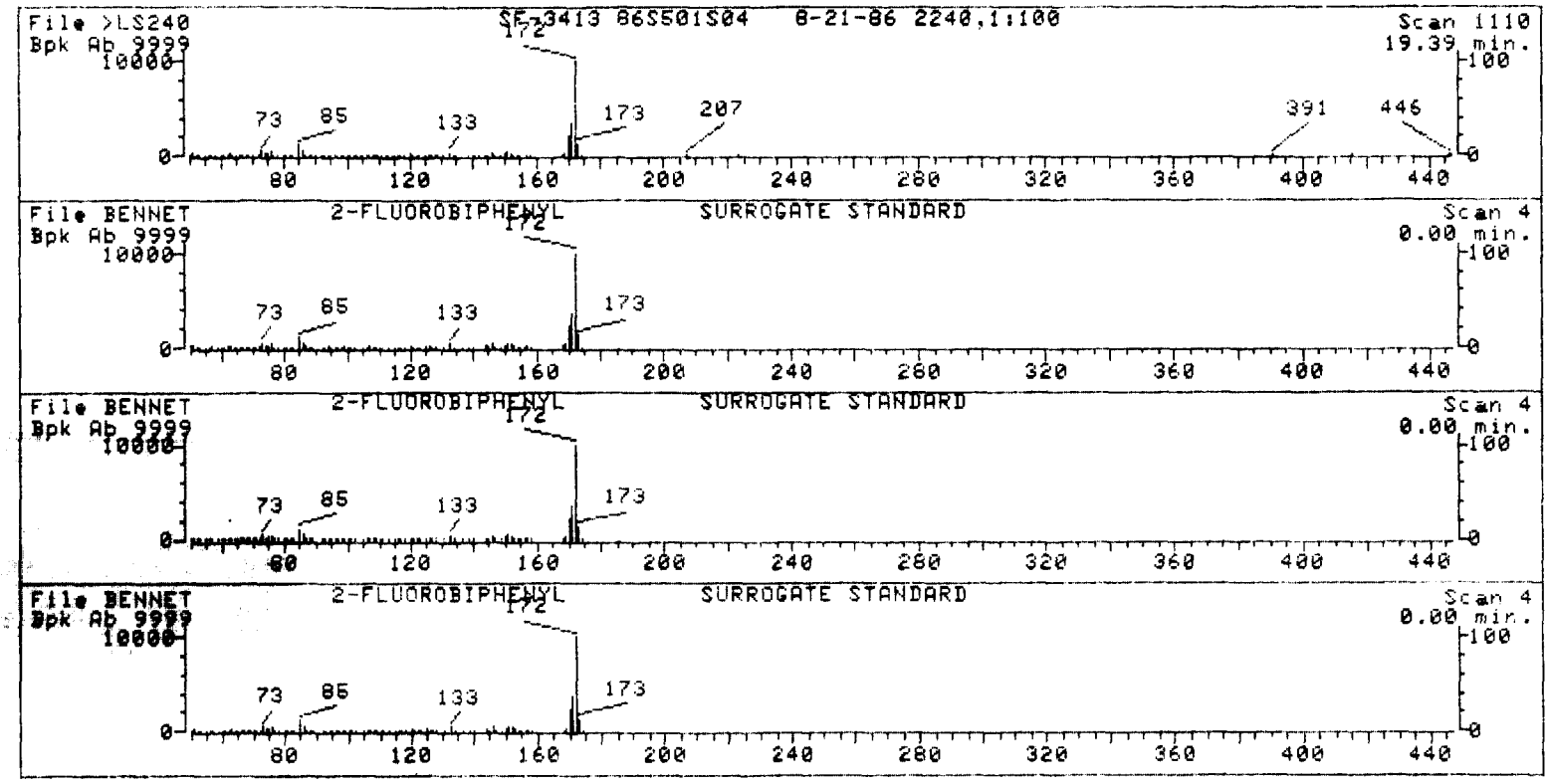
82
132
162
192
80 120 160 200 240 280 320 360 400 440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Scan 1110
19.39 min.
172
73
85
133
173
207
391
446
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
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200
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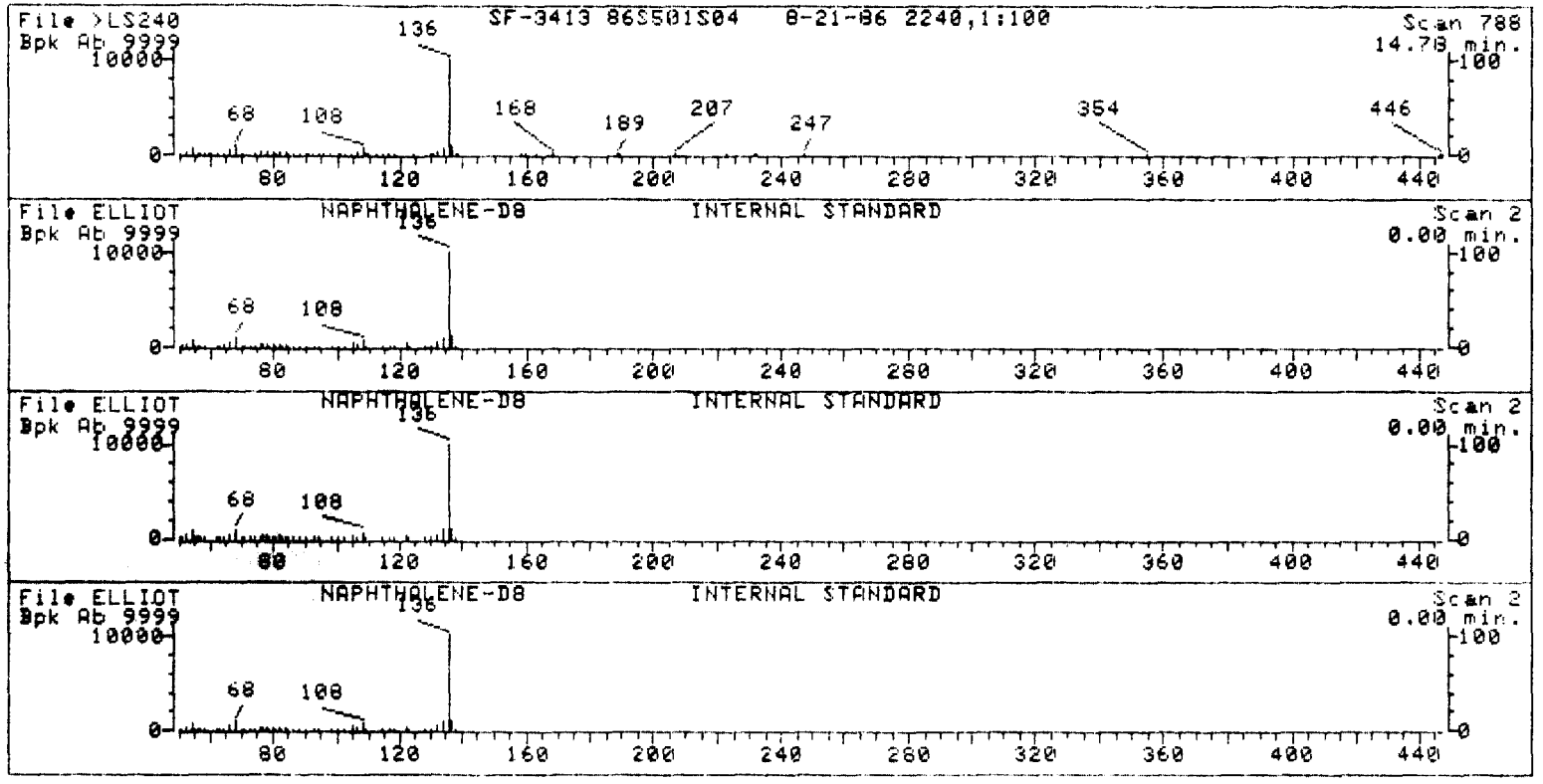
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Scan 788
14.78 min.
136
68
108
168
189
207
247
354
446
File ELLIOT
Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
136
68
108
File ELLIOT
Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
136
68
108
File ELLIOT
Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
136
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108
10000
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320
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400
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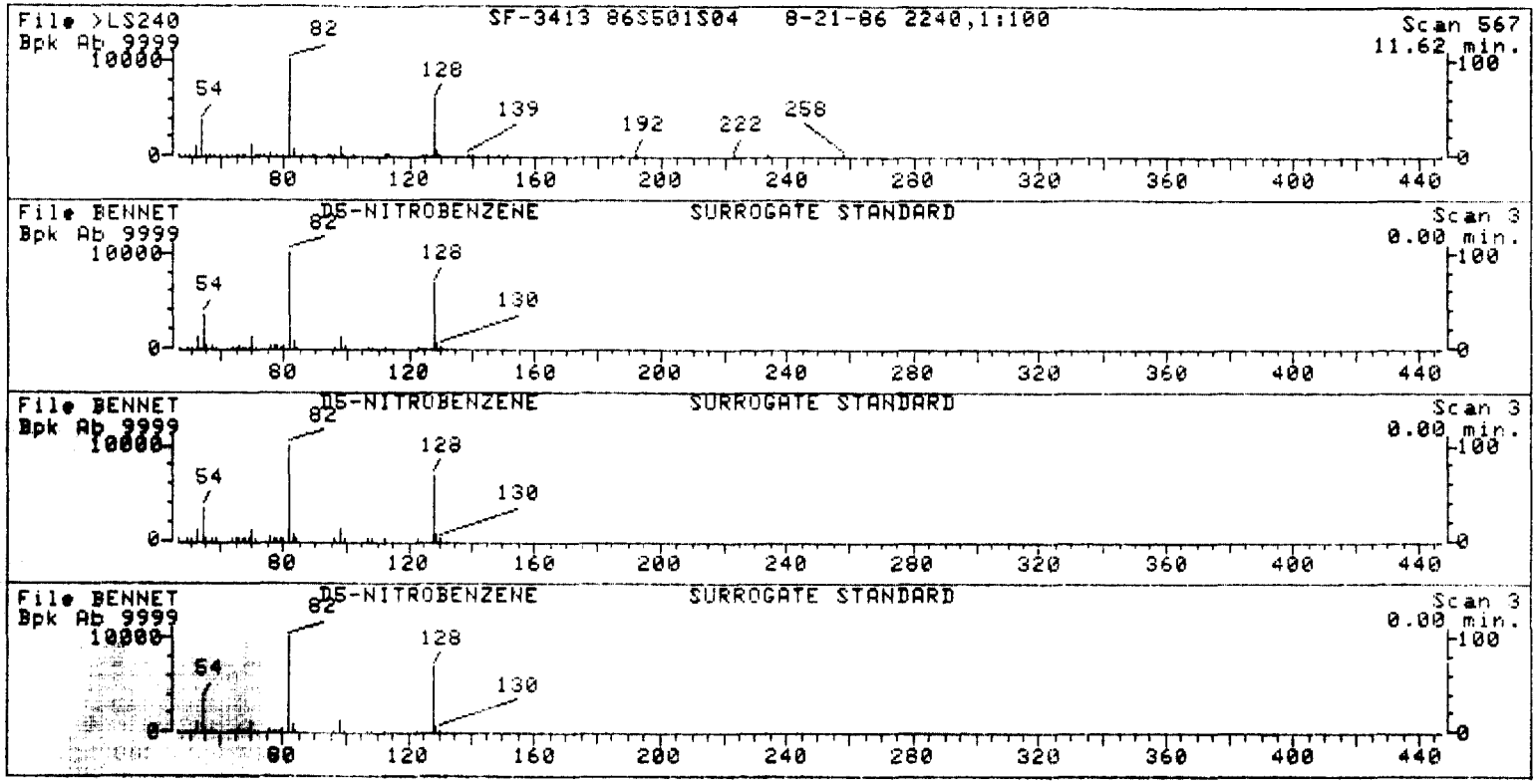
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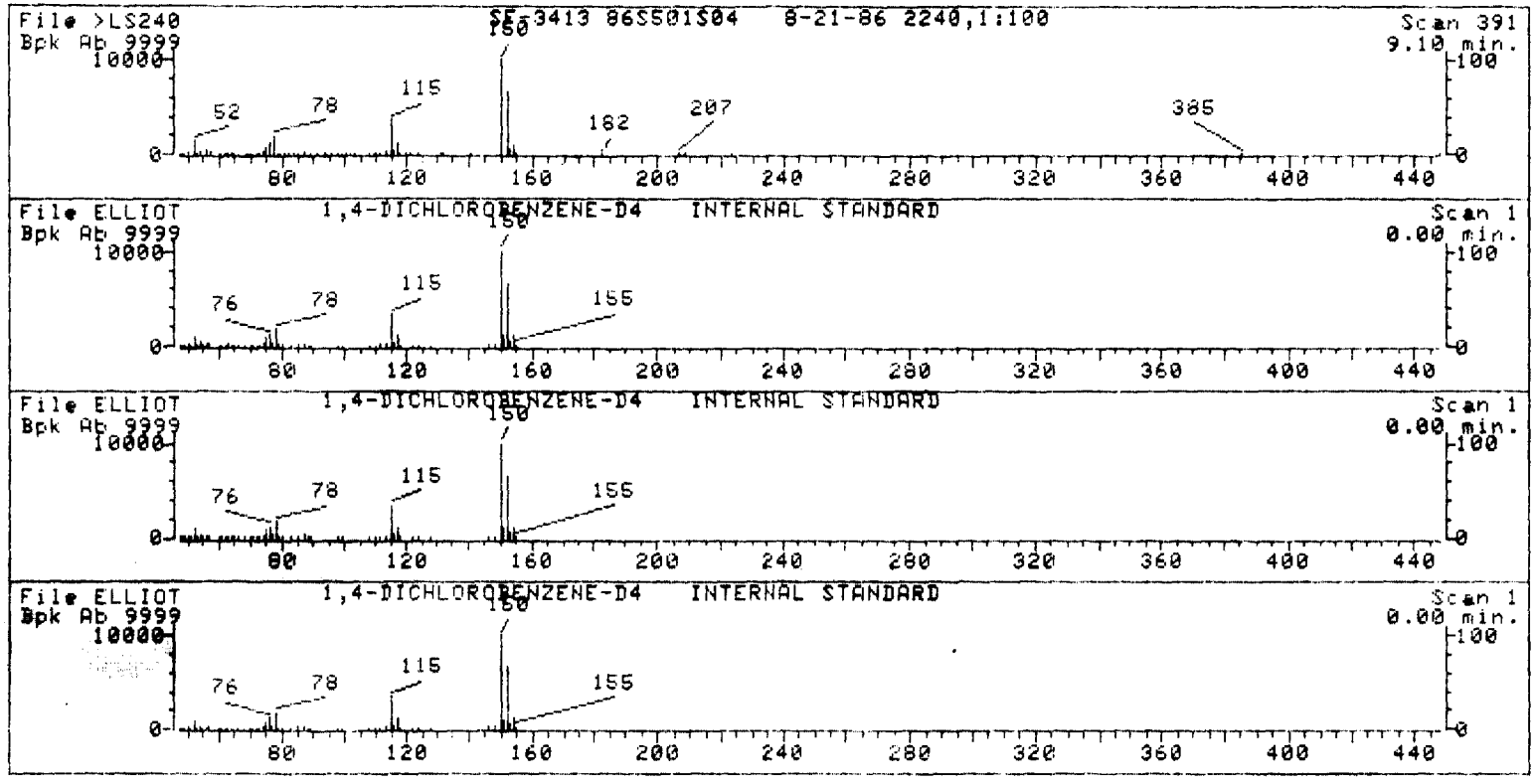
Scan 567
11.62 min.
82
128
54
139
192
222
258
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130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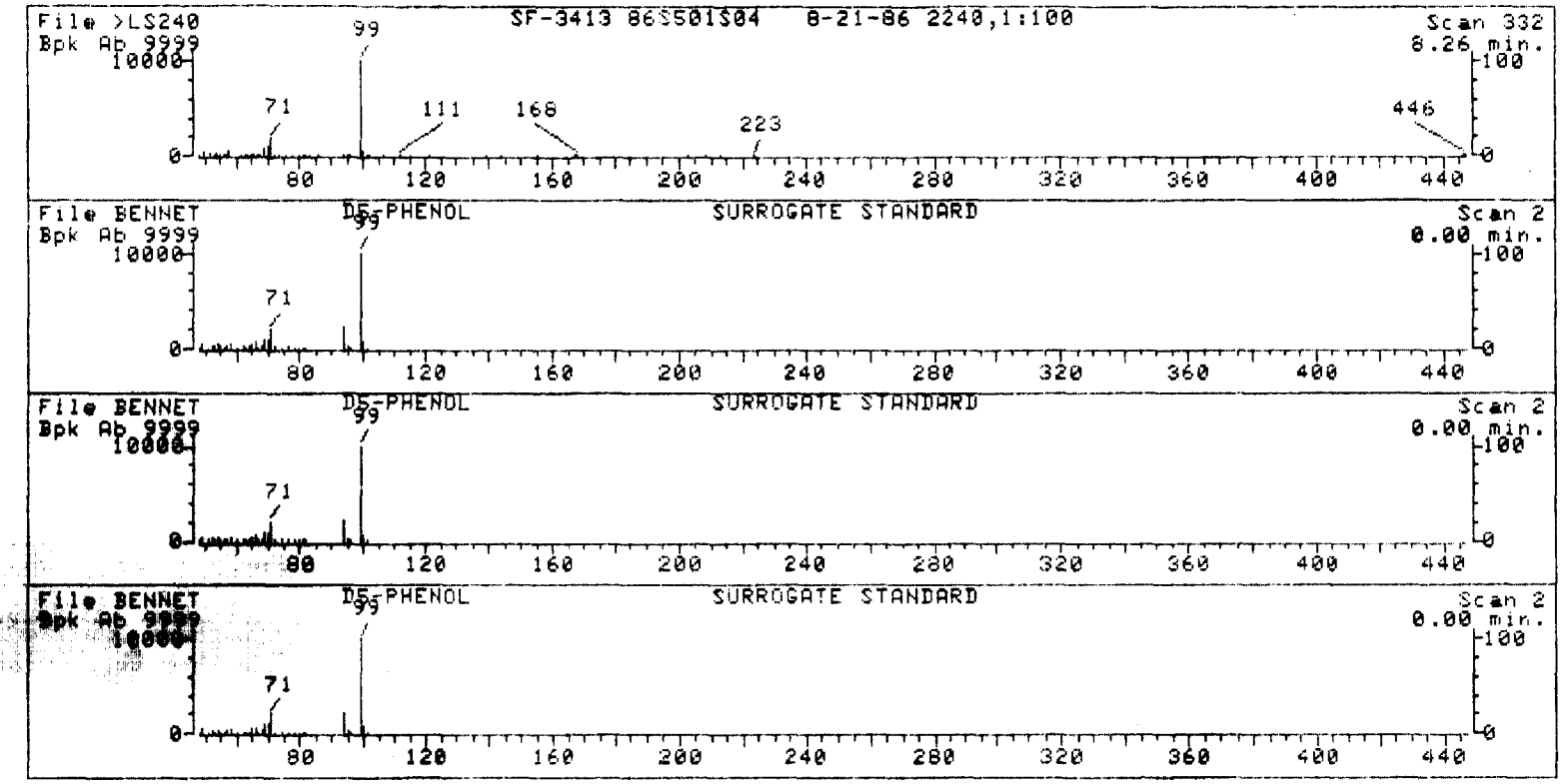
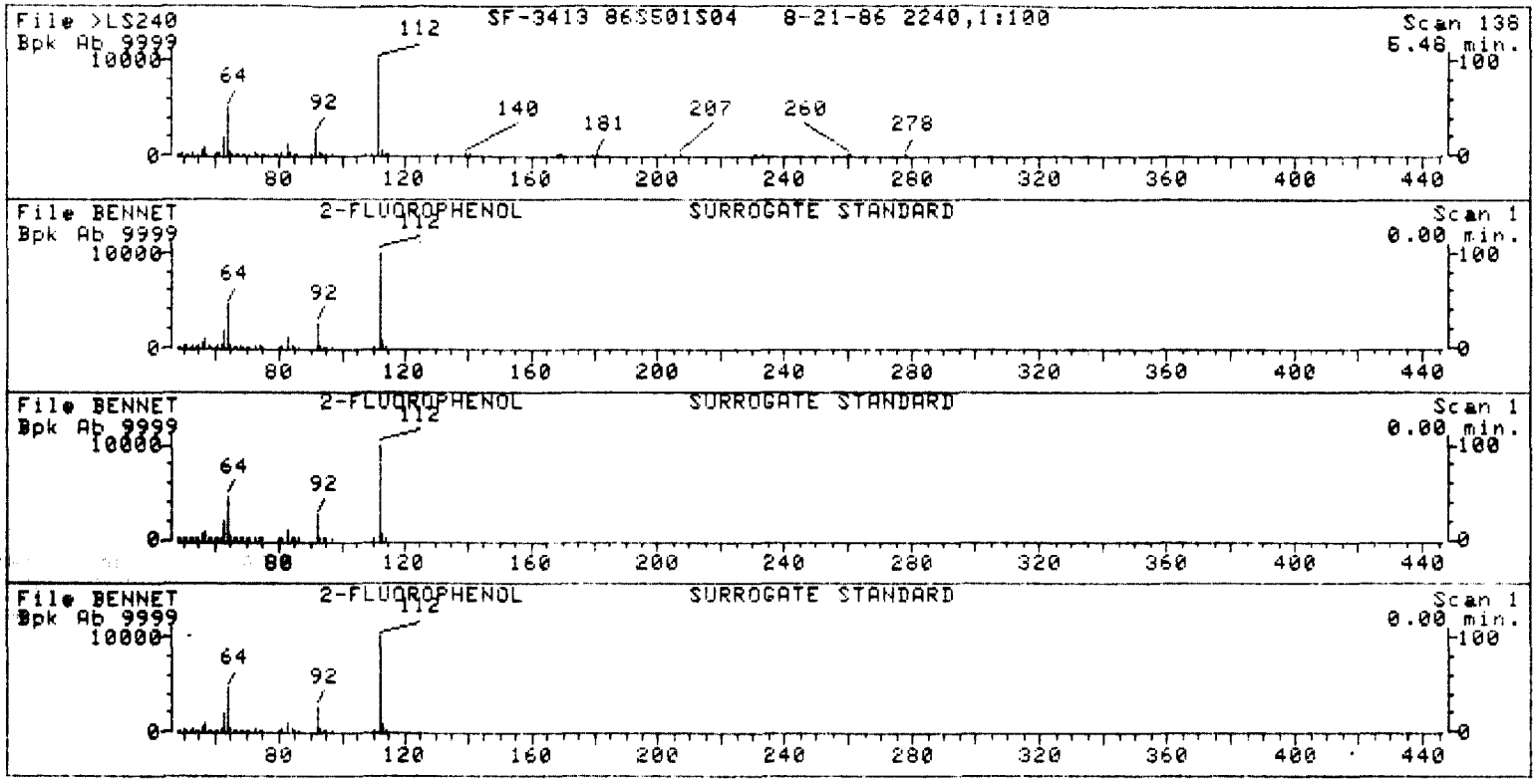
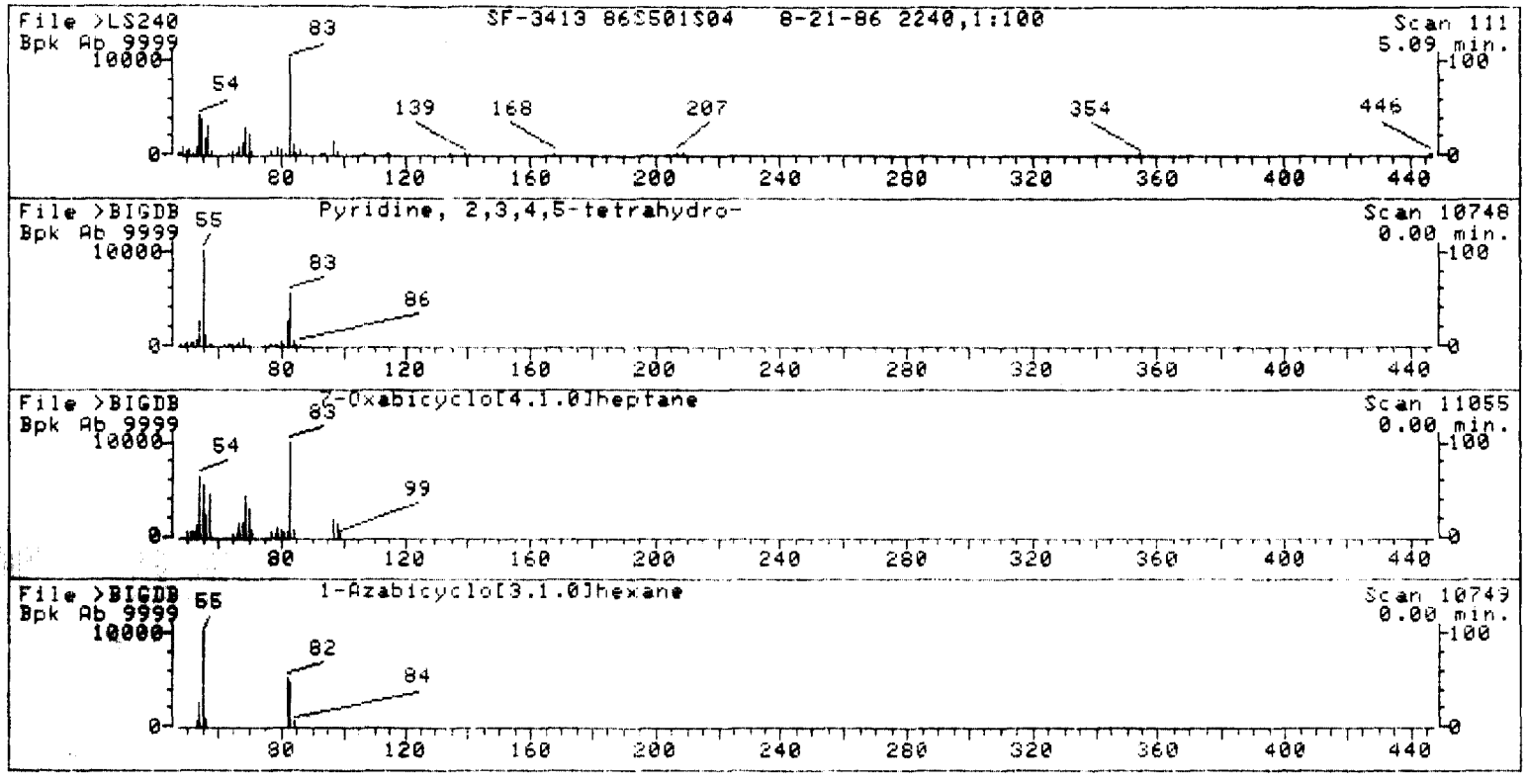
SE-3413 86S501S04 8-21-86 2240,1:100
Scan 391
9.10 min.
100
0
52
78
115
150
182
207
385
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440


File >LS240
Bpk Ab 9999
10000
0
99
71
111
168
223
446
SF-3413 86S501S04 8-21-86 2240,1:100
Scan 332
8.26 min.
100
0
80 120 160 200 240 280 320 360 400 440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
99
71
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
80 120 160 200 240 280 320 360 400 440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
99
71
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
80 120 160 200 240 280 320 360 400 440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
99
71
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
80 120 160 200 240 280 320 360 400 440


File >LS240
Bpk Ab 9999
SF-3413 865501S04 8-21-86 2240,1:100
Scan 136
5.48 min.
112
64
92
140
181
207
260
278
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.


File >LS240
Bpk Ab 9999
SF-3413 86S501S04 8-21-86 2240,1:100
Scan 111
5.09 min.
54
83
139
168
207
354
446
File >BIGDB
Bpk Ab 9999
Pyridine, 2,3,4,5-tetrahydro-
Scan 10748
0.00 min.
55
83
86
File >BIGDB
Bpk Ab 9999
2-Oxabicyclo[4.1.0]heptane
Scan 11055
0.00 min.
54
83
99
File >BIGDB
Bpk Ab 9999
1-Azabicyclo[3.1.0]hexane
Scan 10749
0.00 min.
55
82
84
10000
0
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160
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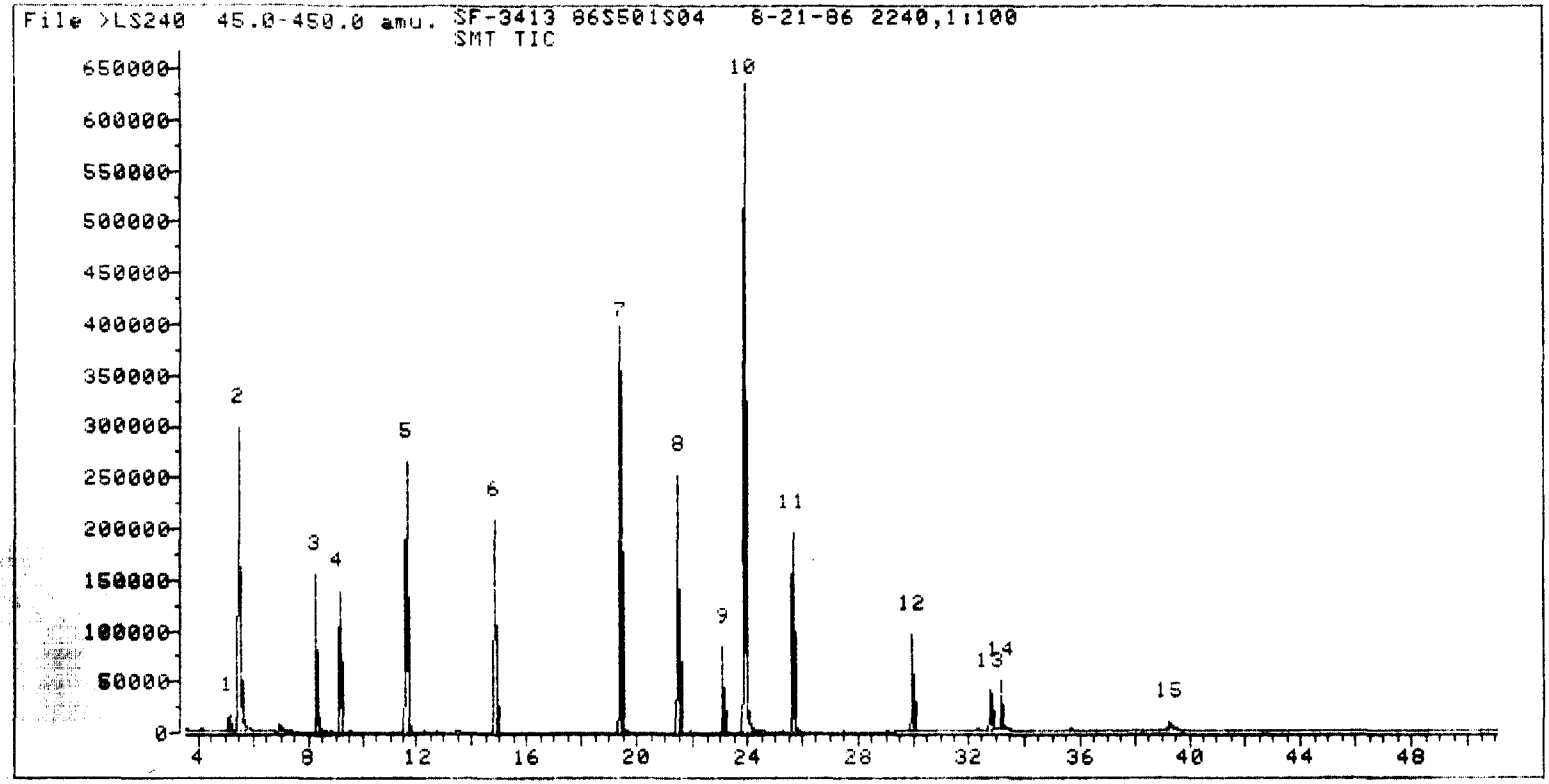
320
360
400
440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SMT TIC
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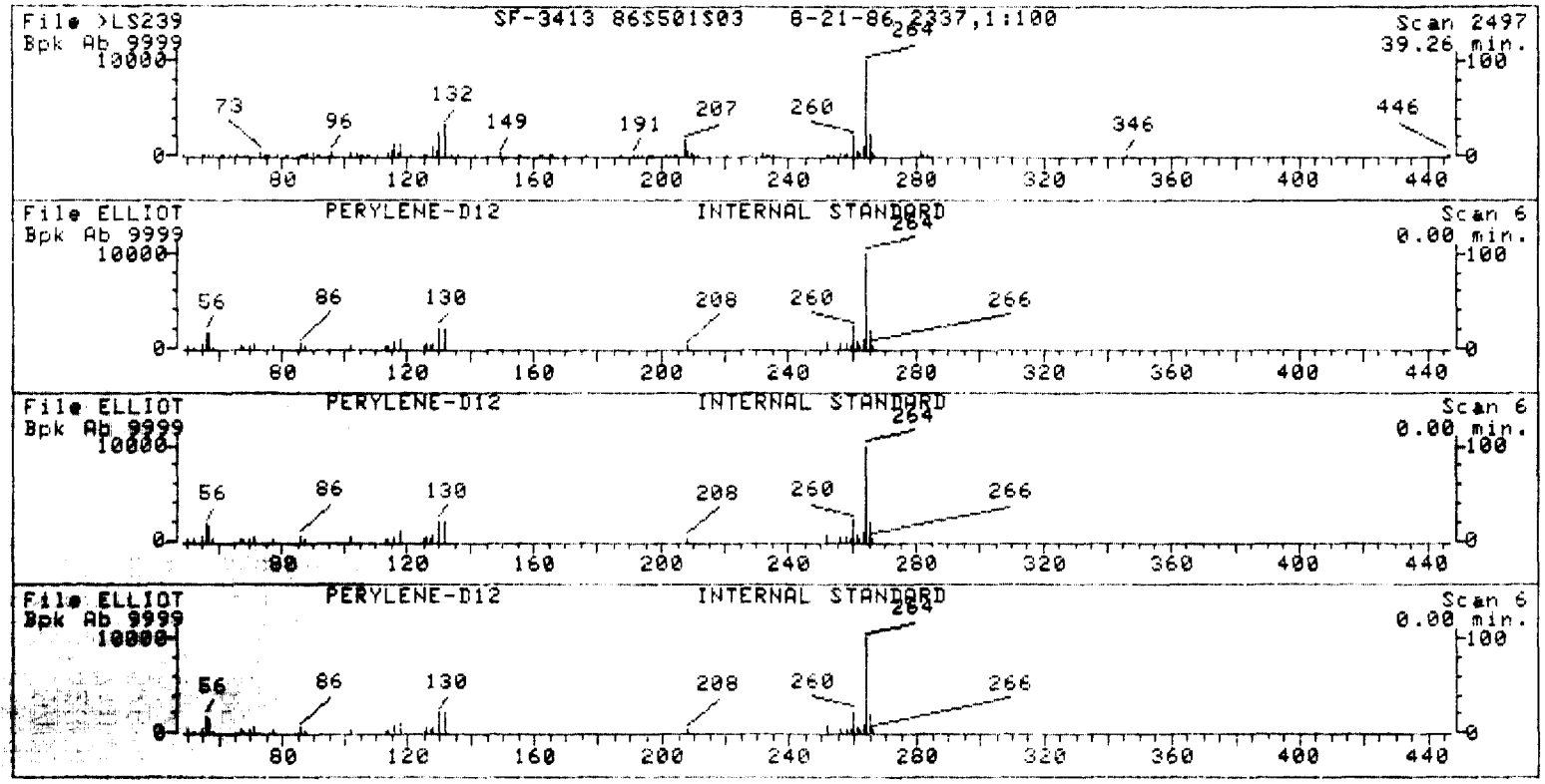
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
4
8
12
16
20
24
28
32
36
40
44
48
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

>LS240 SF-3413 86S501S04 8-21-86 2240,1:100
45.01 450.0 SMT TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.091	106	111	125	14584	94698	65852	2.19	.547
2	5.478	132	138	156	297328	1423940	1391154	46.24	11.557
3	8.255	326	332	354	154729	710418	683133	22.71	5.675
4	9.101	385	391	404	138068	576543	559667	18.60	4.649
5	11.619	556	567	584	264417	1327699	1310910	43.57	10.890
6	14.781	776	788	803	207894	885479	872462	29.00	7.248
7	19.388	1103	1110	1122	397046	1394348	1383264	45.98	11.491
8	21.448	1247	1254	1268	251260	948821	933939	31.04	7.758
9	23.093	1364	1369	1383	83319	281203	271426	9.02	2.255
10	23.838	1411	1421	1465	635244	3031762	3008679	100.00	24.994
11	25.630	1539	1546	1564	194458	750106	731950	24.33	6.080
12	29.896	1838	1844	1851	94876	369358	353403	11.75	2.936
13	32.779	2038	2045	2059	38260	255852	198969	6.61	1.653
14	33.152	2065	2071	2085	47240	267168	204848	6.81	1.702
15	39.277	2488	2498	2513	6832	137186	68011	2.26	.565

Sum of corrected areas: 12037670.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Scan 2497
39.26 min.
73
96
132
149
191
207
260
264
346
446
File ELLIOT
Bpk Ab 9999
10000
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56
86
130
208
260
264
266
File ELLIOT
Bpk Ab 9999
10000
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56
86
130
208
260
264
266
File ELLIOT
Bpk Ab 9999
10000
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
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86
130
208
260
264
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200
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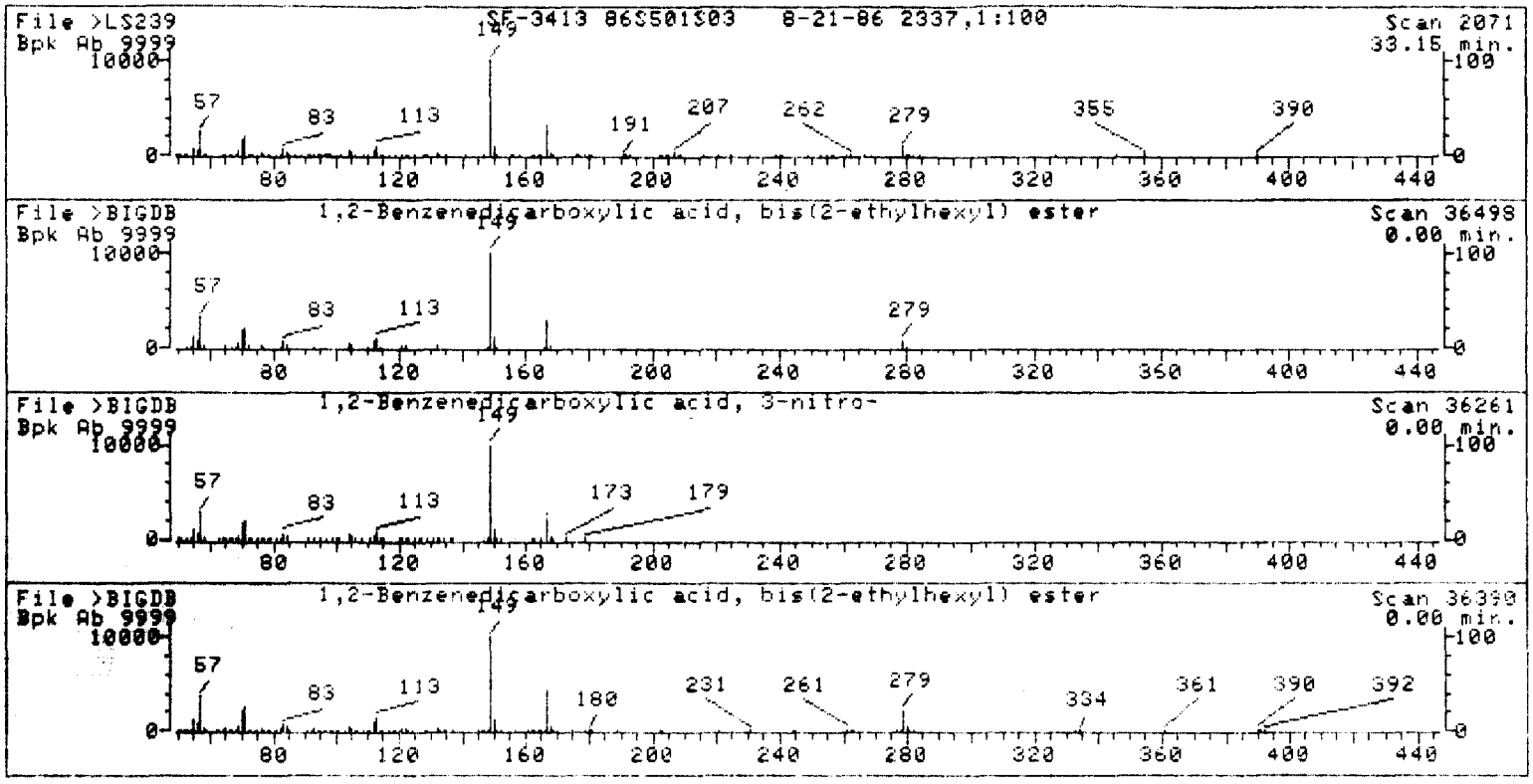
280
320
360
400
440
100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Scan 2071
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57
83
113
191
207
262
279
355
390
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36498
0.00 min.
100
0
149
57
83
113
279
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
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1,2-Benzenedicarboxylic acid, 3-nitro-
Scan 36261
0.00 min.
100
0
149
57
83
113
173
179
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
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1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36390
0.00 min.
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149
57
83
113
180
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261
279
334
361
390
392
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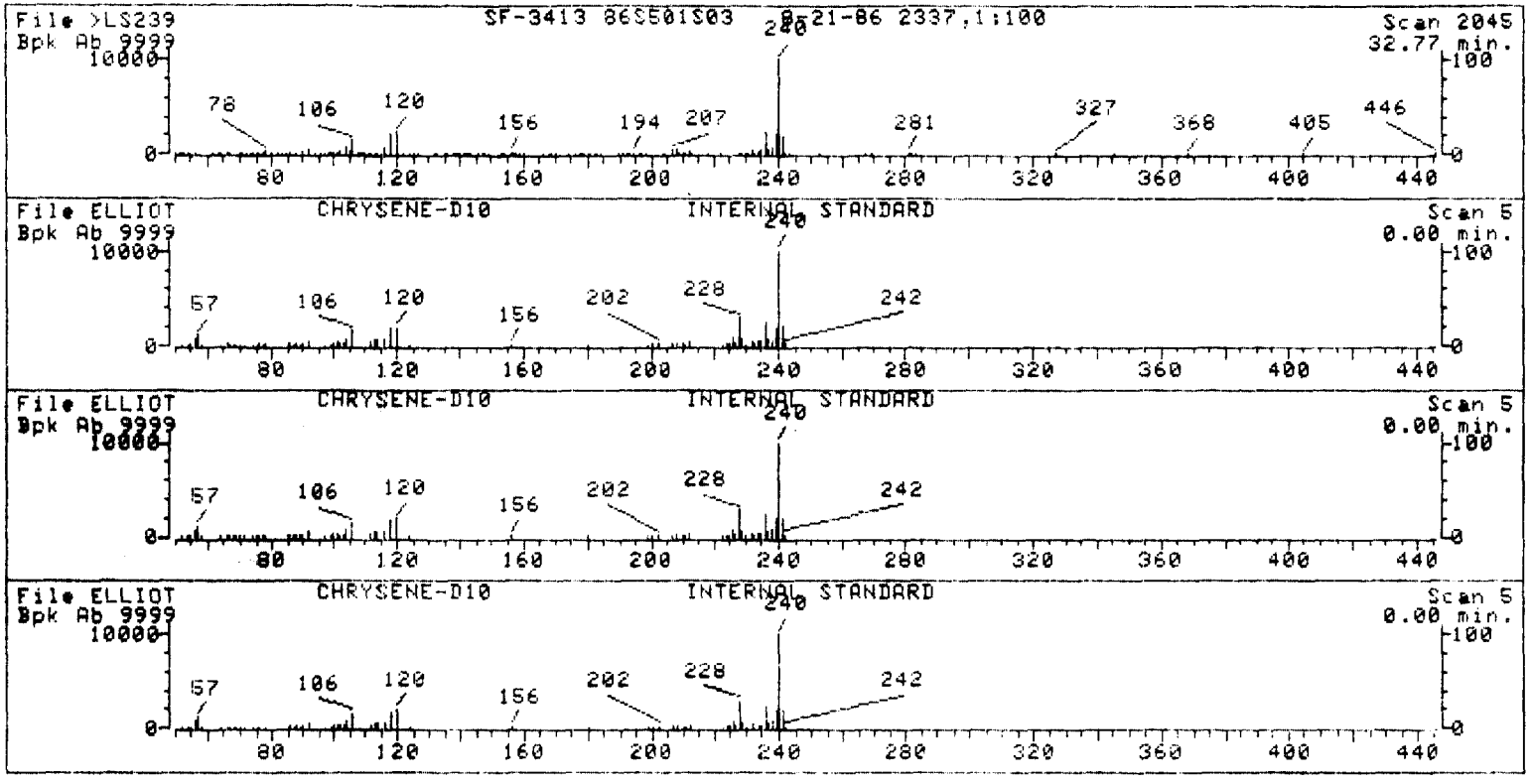
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SF-3413 86S501S03 8-21-86 2337,1:100
Scan 2045
32.77 min.
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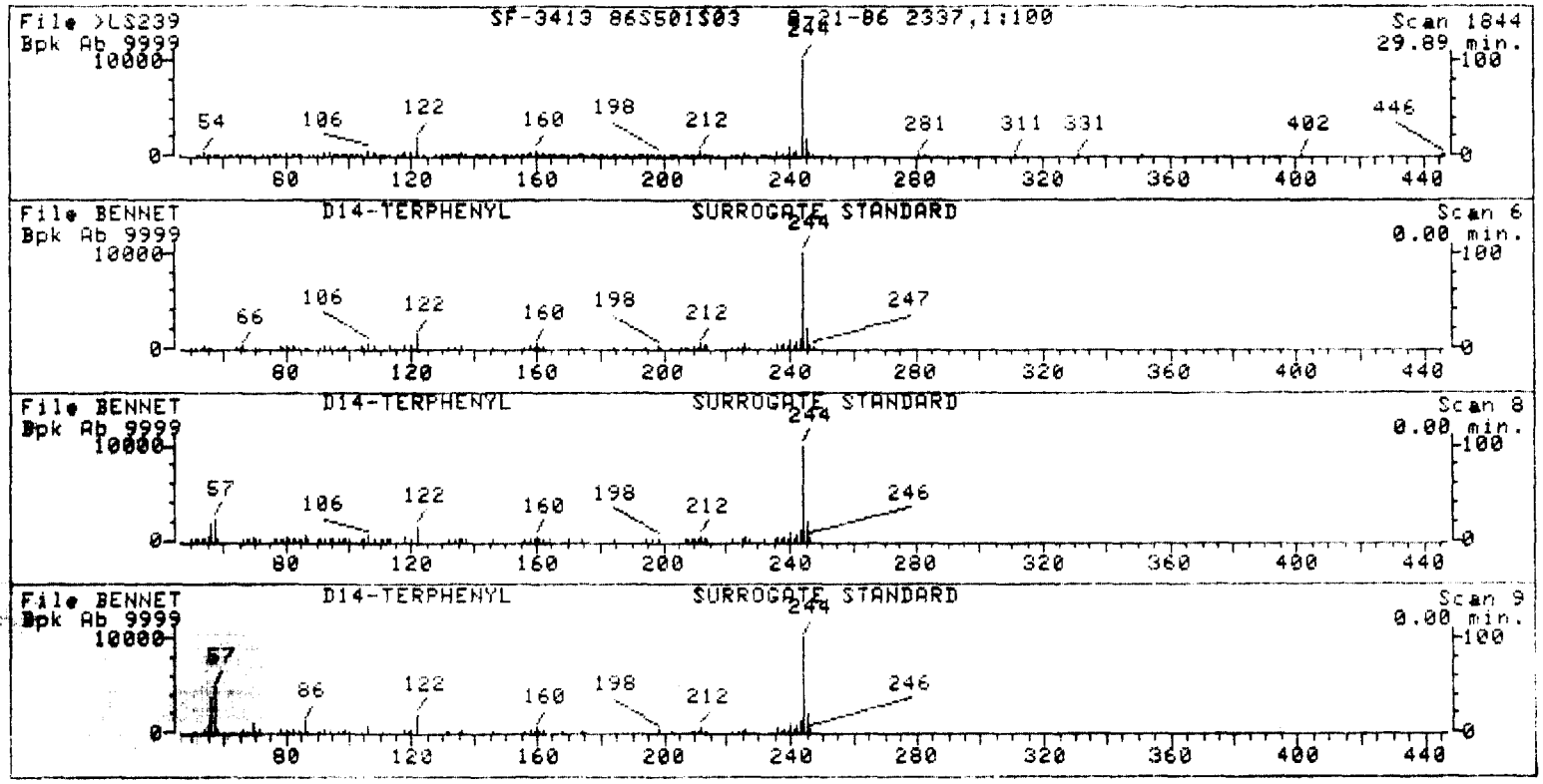
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57 106 120 156 202 228 242
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57 106 120 156 202 228 242
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57 106 120 156 202 228 242
10000
0
100
80 120 160 200 240 280 320 360 400 440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8-21-86 2337,1:100
Scan 1844
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244
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File BENNET
Bpk Ab 9999
10000
D14-TERPHENYL
SURROGATE STANDARD
Scan 6
0.00 min.
244
66 106 122 160 198 212 247
File BENNET
Bpk Ab 9999
10000
D14-TERPHENYL
SURROGATE STANDARD
Scan 8
0.00 min.
244
57 106 122 160 198 212 246
File BENNET
Bpk Ab 9999
10000
D14-TERPHENYL
SURROGATE STANDARD
Scan 9
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244
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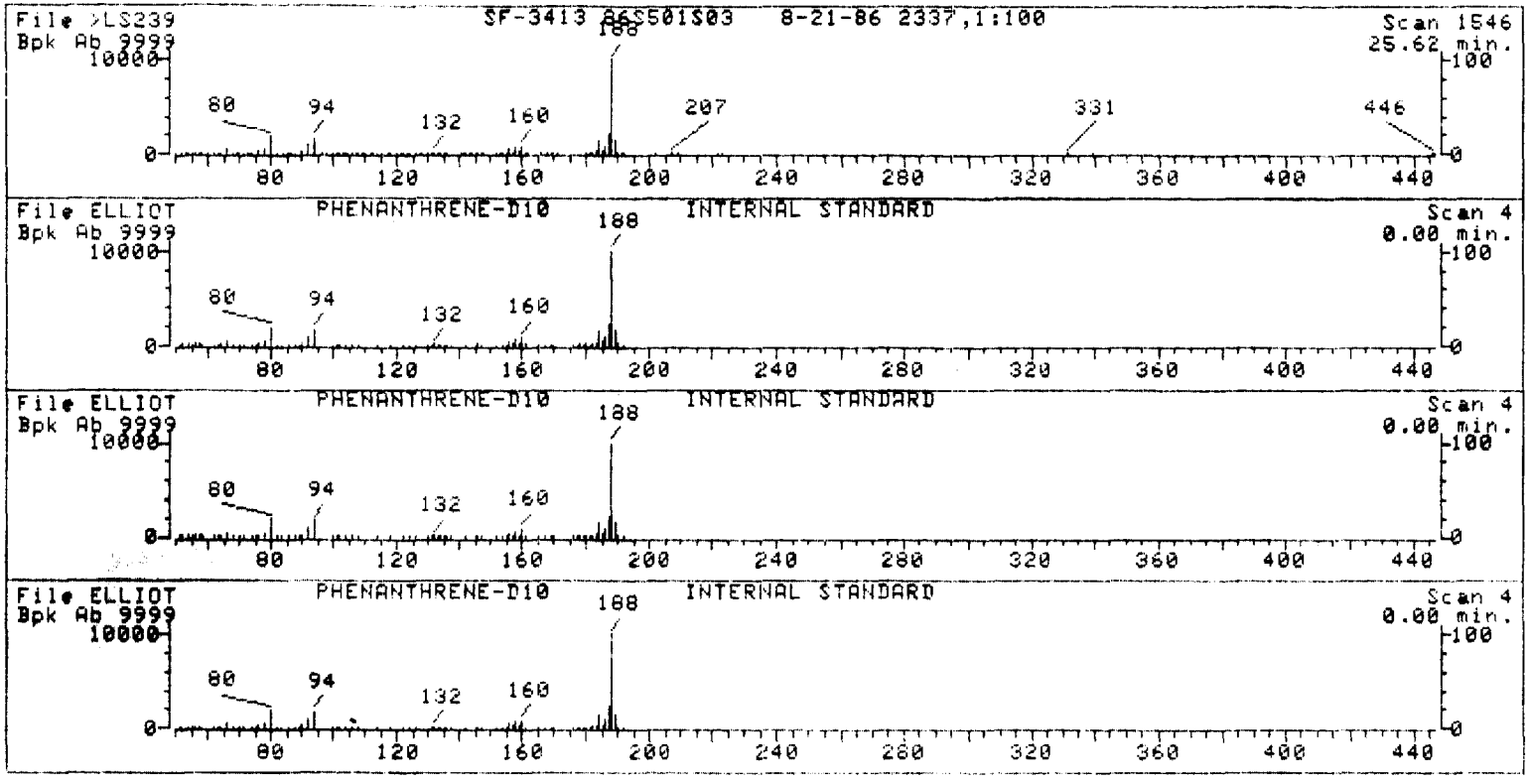
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160
207
331
446
File ELLIOT
Bpk Ab 9999
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
188
80
94
132
160
File ELLIOT
Bpk Ab 9999
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
188
80
94
132
160
File ELLIOT
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PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
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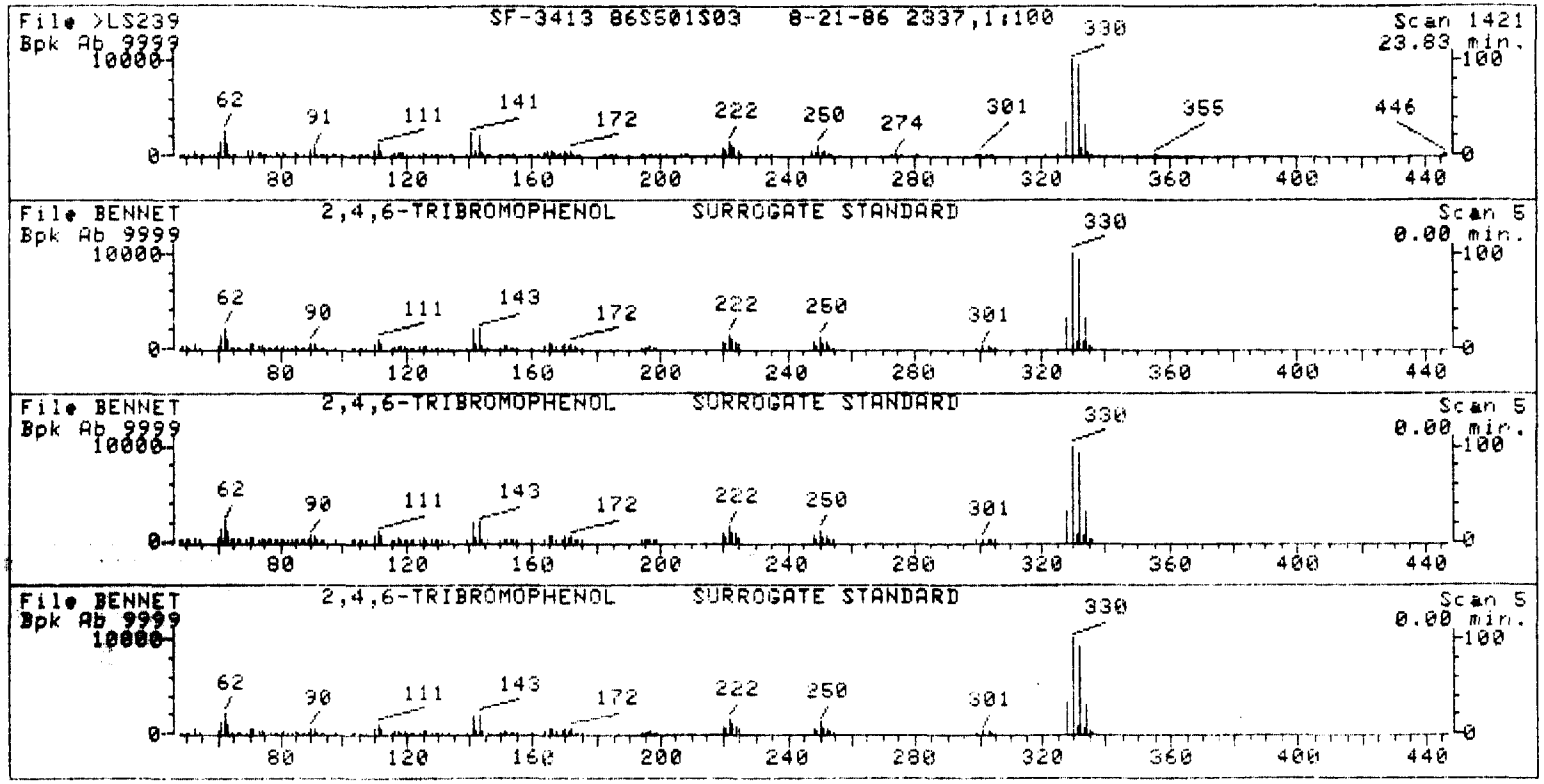
80
94
132
160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Scan 1421
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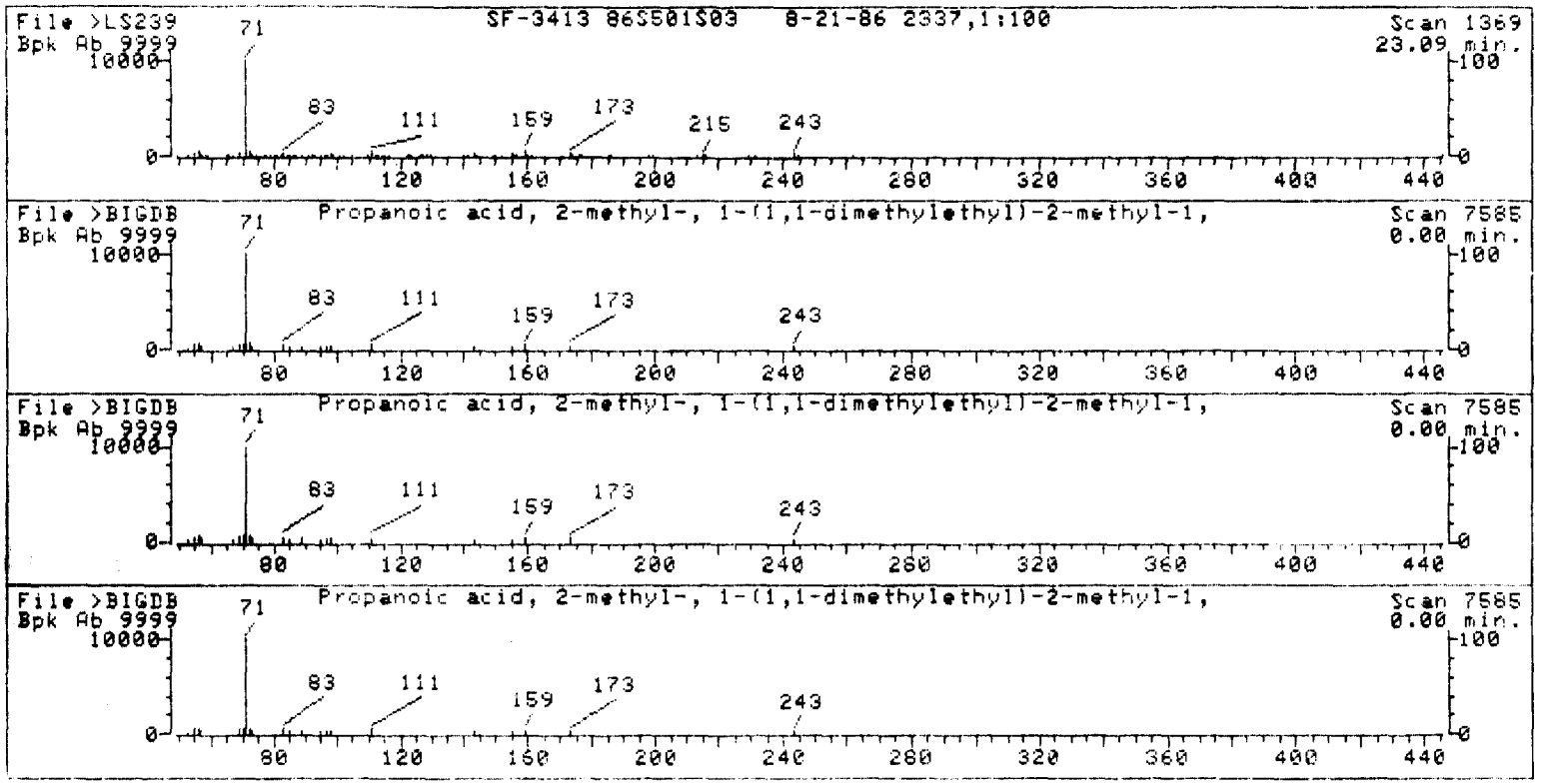
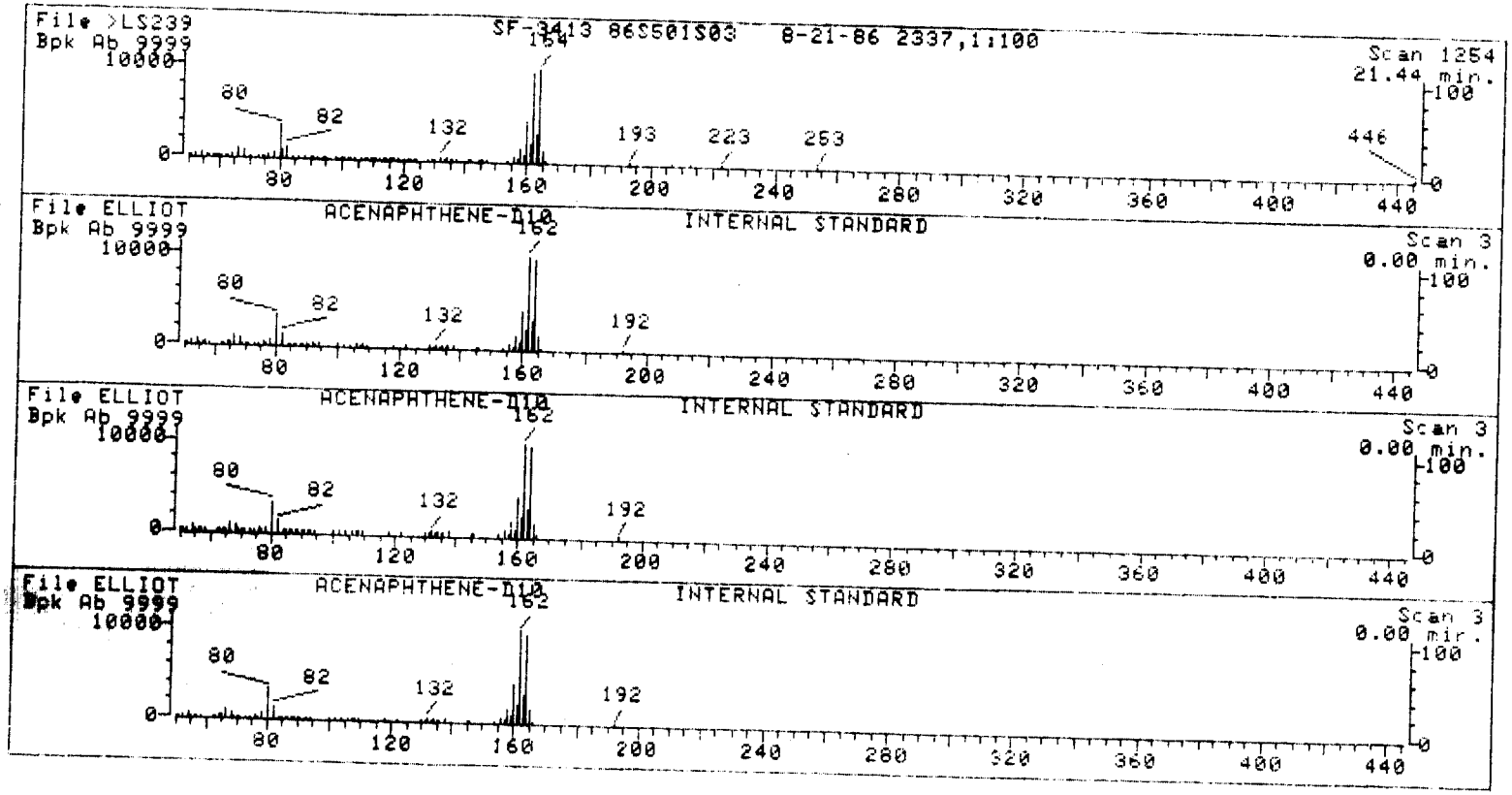
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.


File >LS239
Bpk Ab 9999
SF-3413 86S501S03 8-21-86 2337,1:100
Scan 1369
23.09 min.
71
83
111
159
173
215
243
File >BIGDB
Bpk Ab 9999
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
71
83
111
159
173
243
File >BIGDB
Bpk Ab 9999
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
71
83
111
159
173
243
File >BIGDB
Bpk Ab 9999
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
71
83
111
159
173
243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193
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253
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120
160
200
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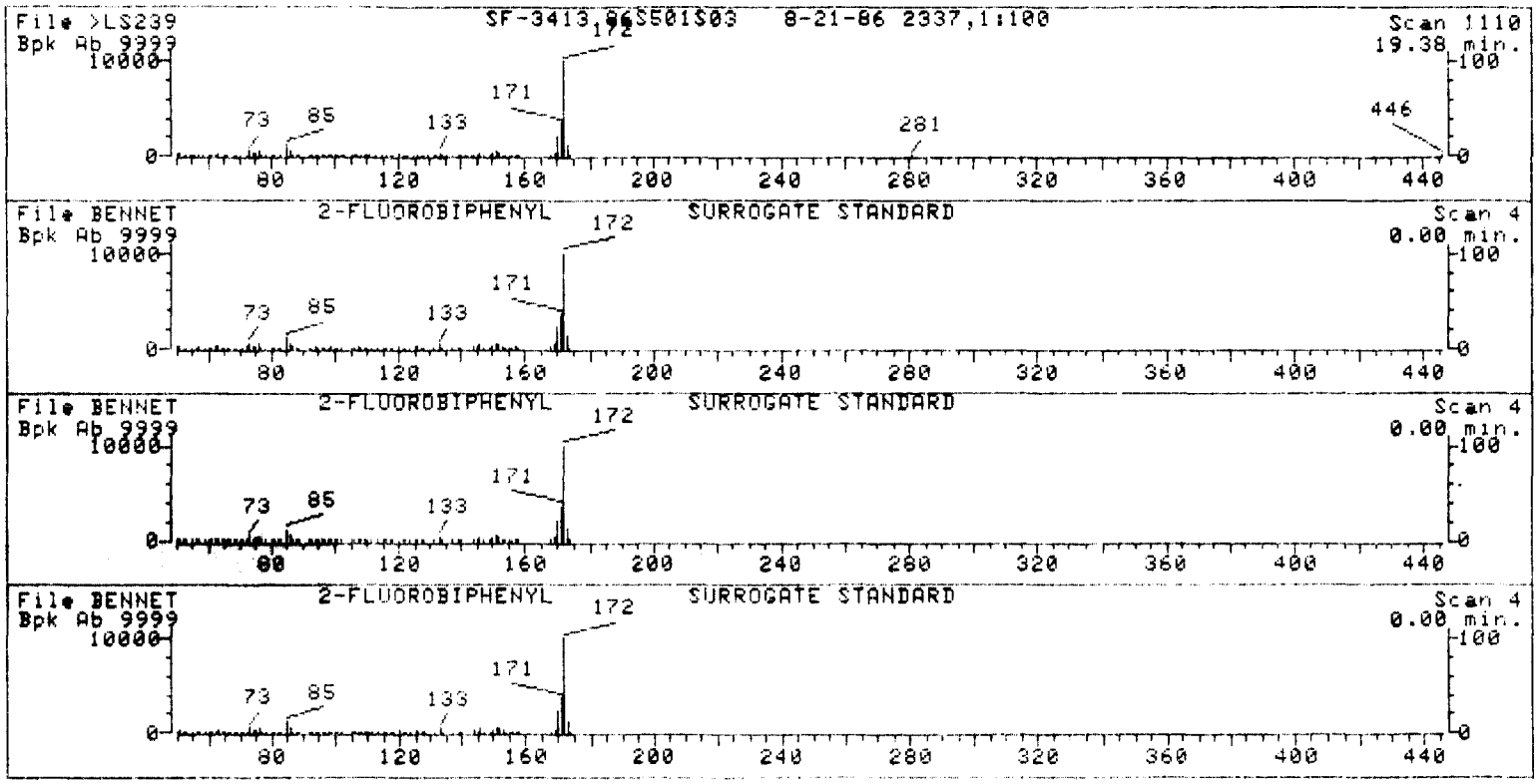
440
File ELLIOT
Bpk Ab 9999
10000
0
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
100
0
80
82
132
162
192
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
100
0
80
82
132
162
192
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
100
0
80
82
132
162
192
80
120
160
200
240
280
320
360
400
440


File >LS239
SF-3413,86S501S03 8-21-86 2337,1:100
Scan 1110
19.38 min.
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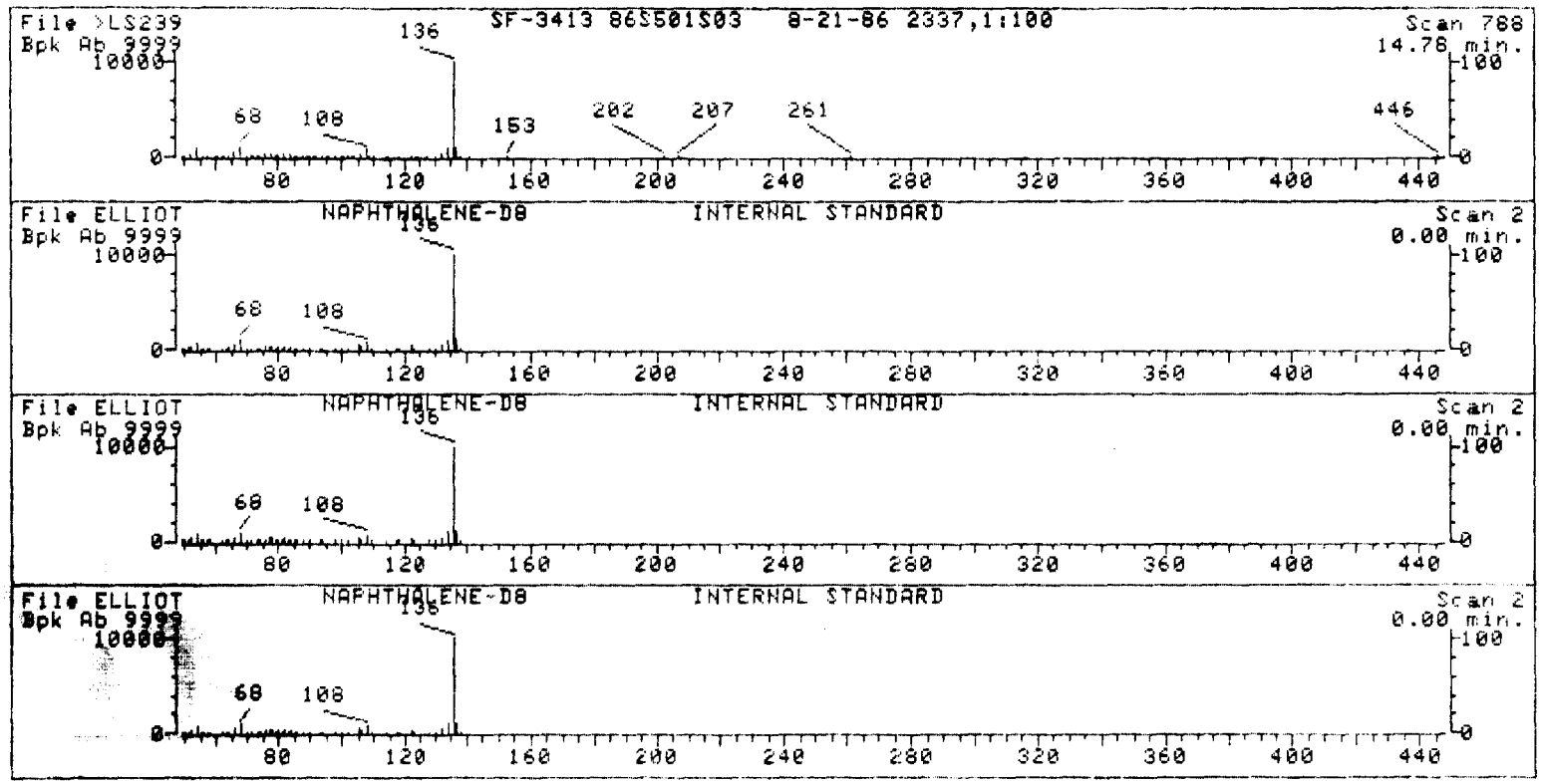
172
171
73
85
133
281
446
80
120
160
200
240
280
320
360
400
440
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
0.00 min.
Bpk Ab 9999
10000
172
171
73
85
133
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
0.00 min.
Bpk Ab 9999
10000
172
171
73
85
133
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
0.00 min.
Bpk Ab 9999
10000
172
171
73
85
133


File >LS239
Bpk Ab 9999
SF-3413 86S501S03 8-21-86 2337,1:100
Scan 788
14.76 min.
136
68
108
153
202
207
261
446
File ELLIOT
Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
136
68
108
File ELLIOT
Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
136
68
108
File ELLIOT
Bpk Ab 9999
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
136
68
108
10000
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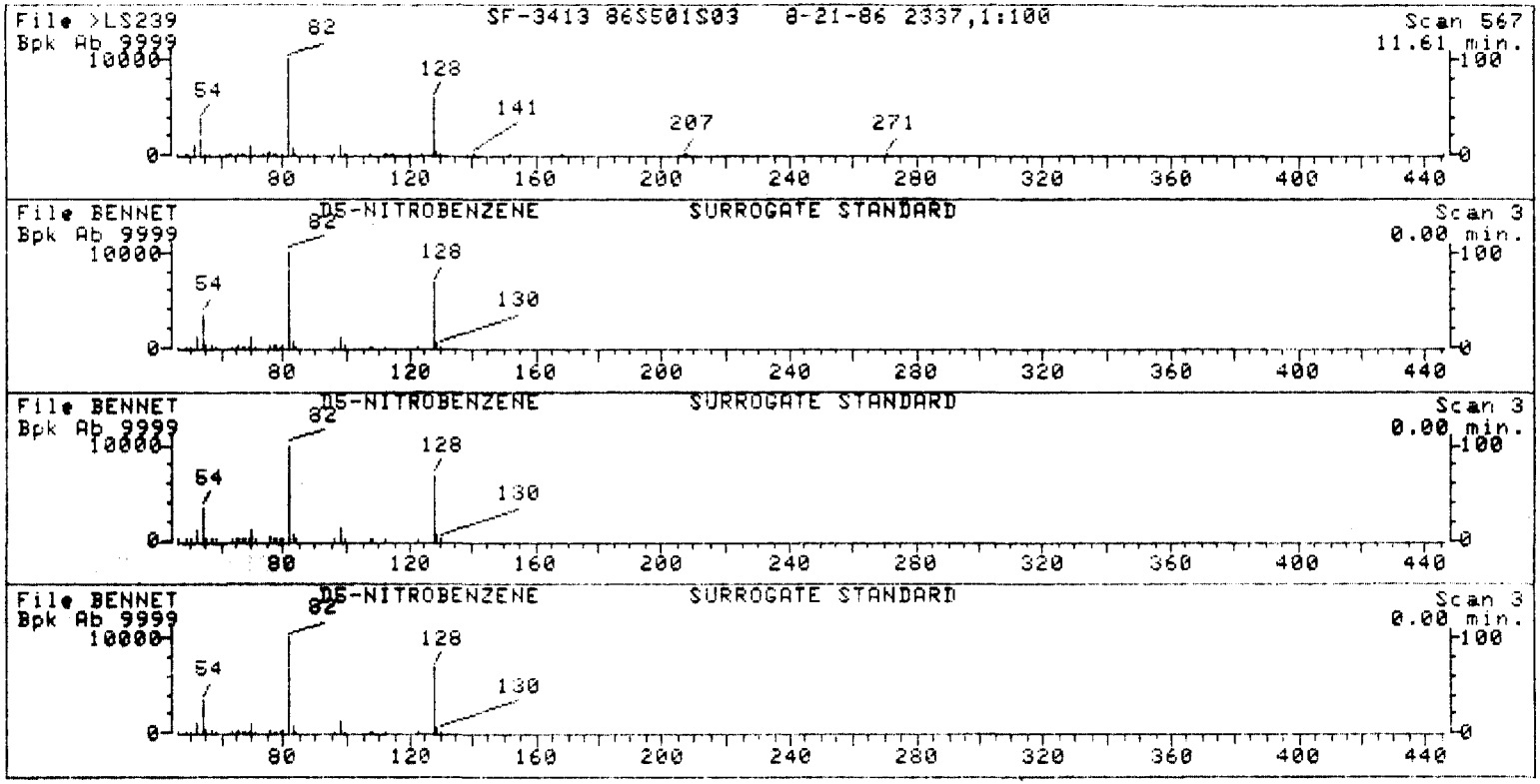
File >LS239
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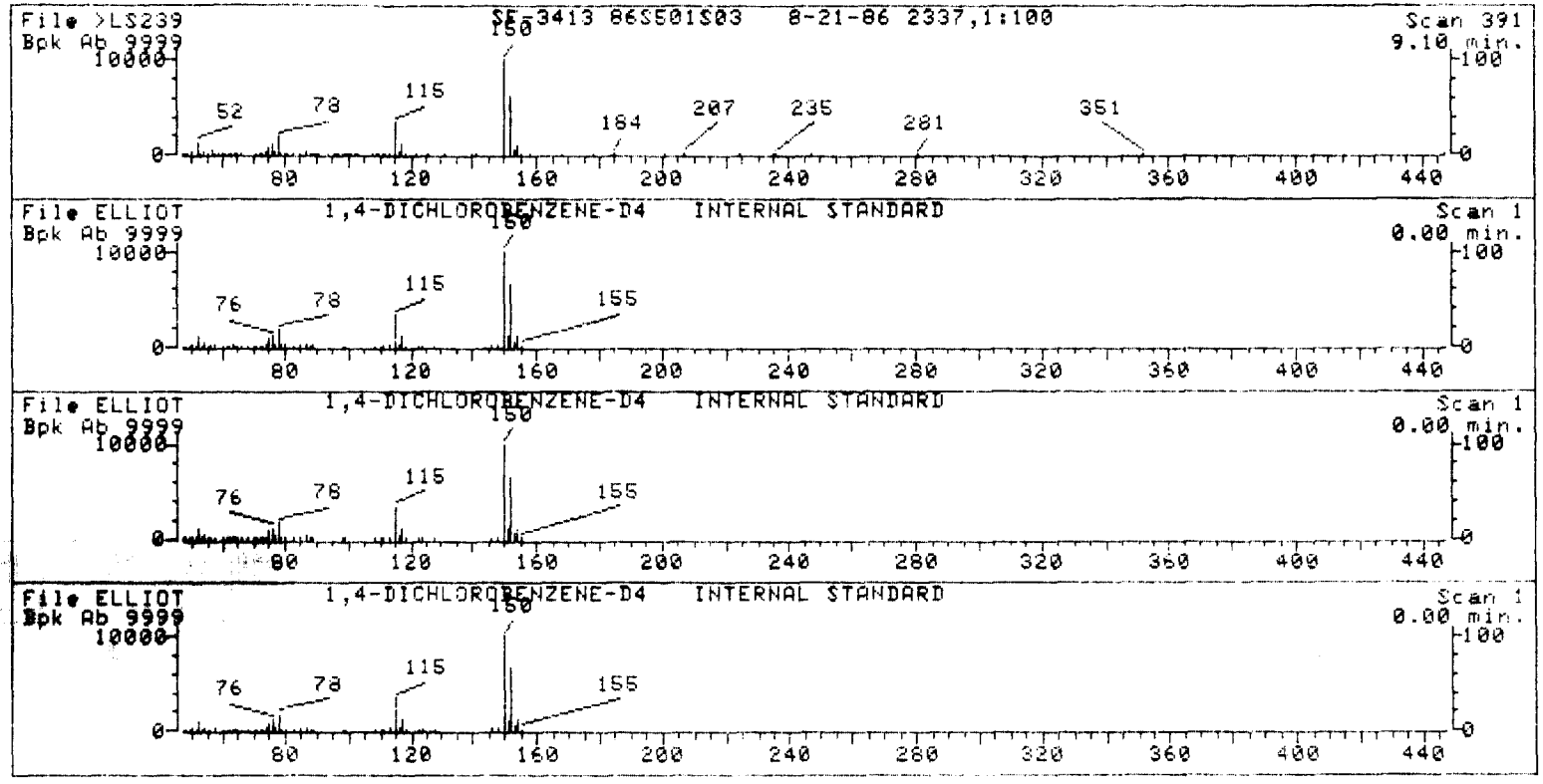
SF-3413 86S501S03 8-21-86 2337,1:100
Scan 567
11.61 min.
File BENNET
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
File BENNET
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
File BENNET
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.


File >LS239
Bpk Ab 9999
SE 3413 86S501S03 8-21-86 2337,1:100
Scan 391
9.10 min.
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52
78
115
150
184
207
235
281
351
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
10000
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
10000
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
10000
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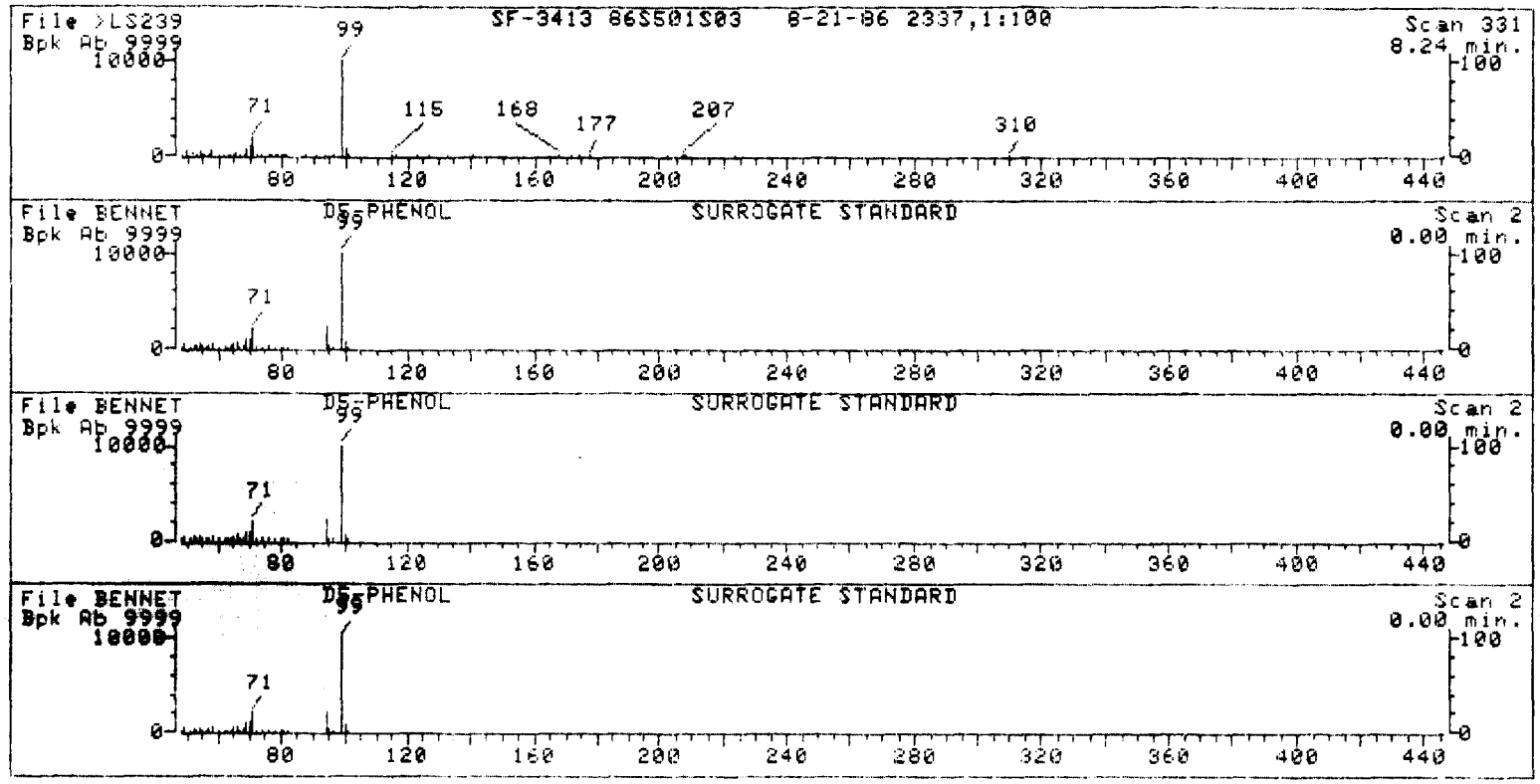
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440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SF-3413 86S501S03 8-21-86 2337,1:100
Scan 331
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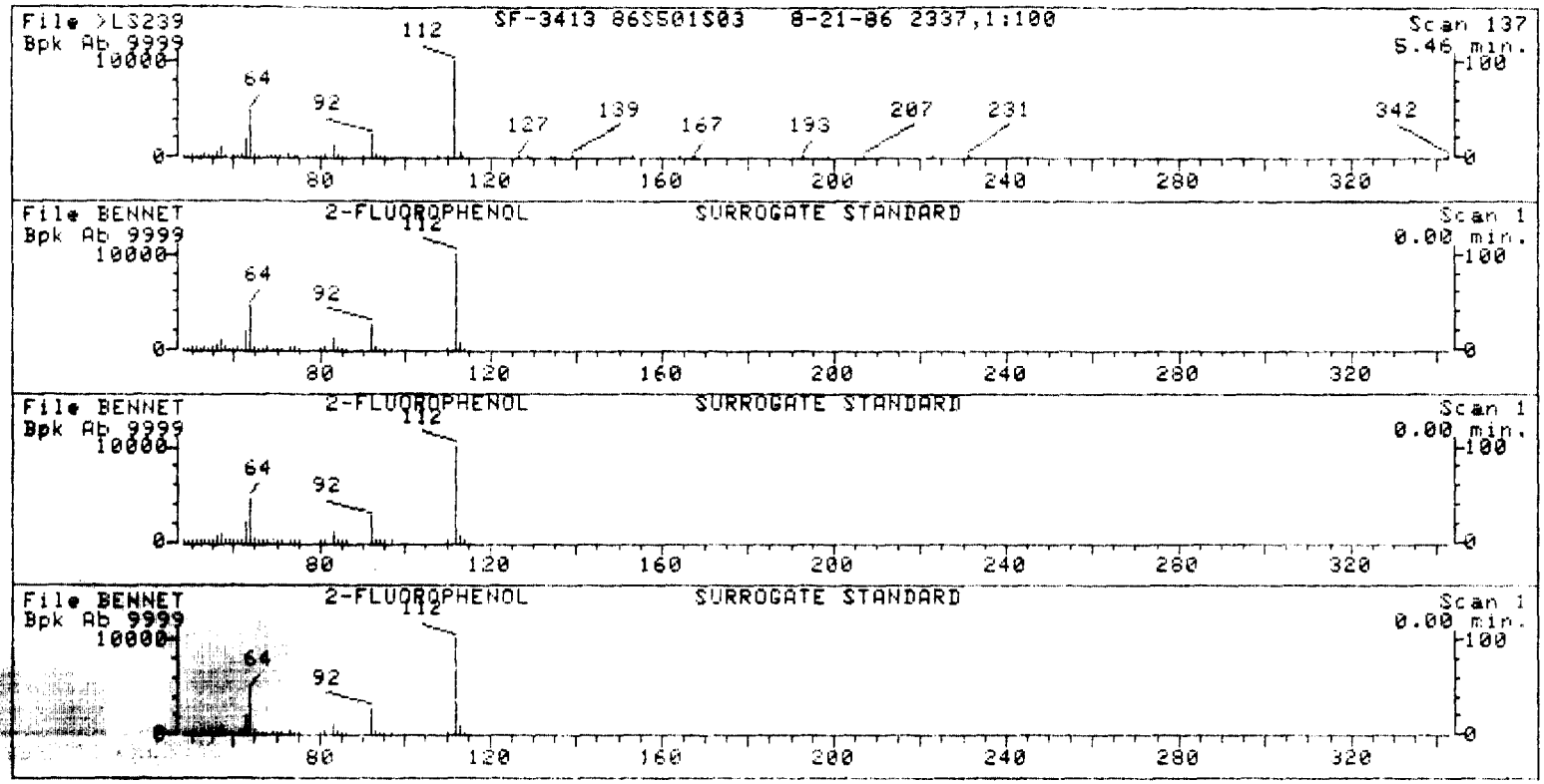
100
0
99
71
115
168
177
207
310
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440


File >LS239
Bpk Ab 9999
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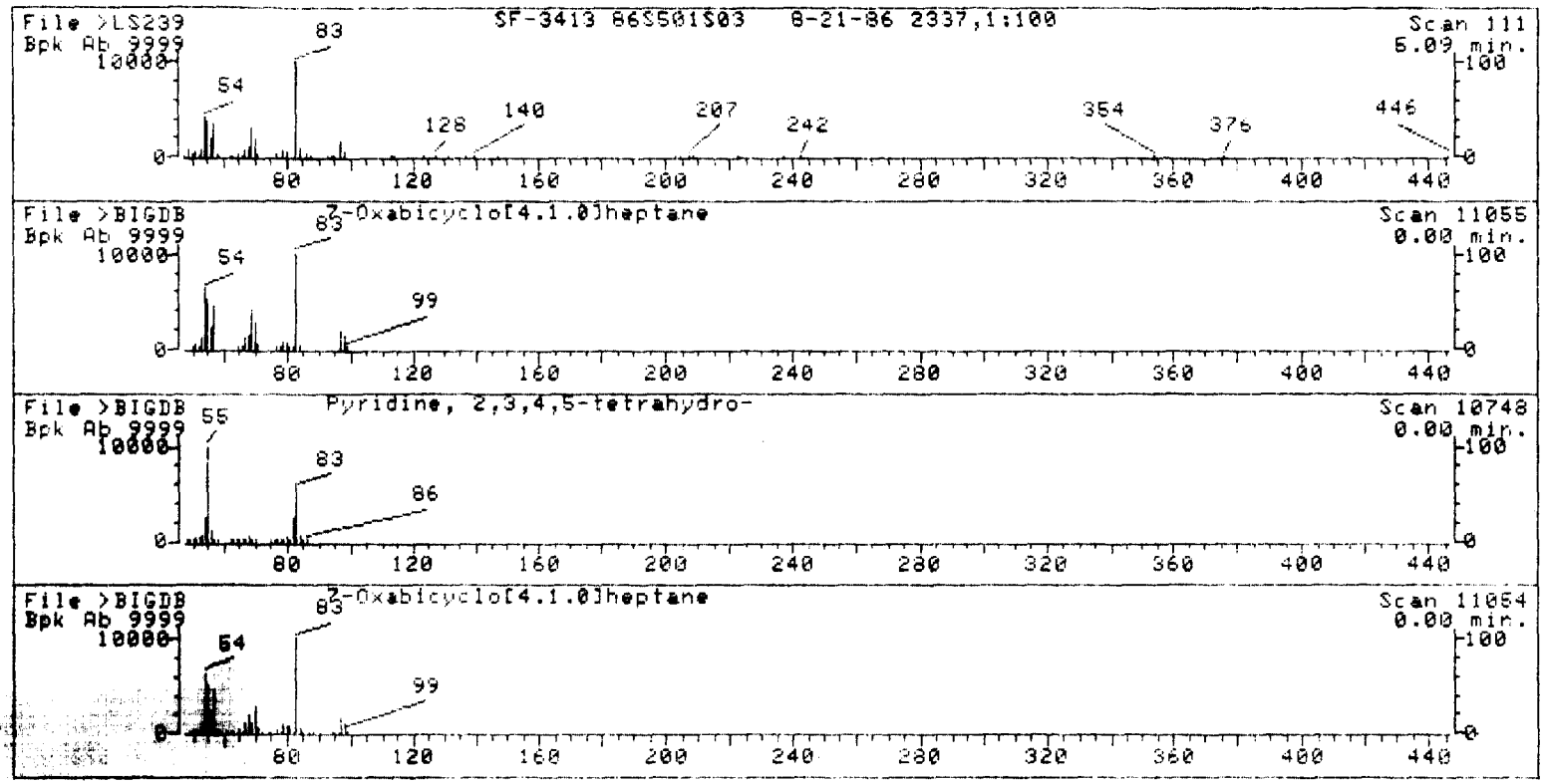
SF-3413 86S501S03 8-21-86 2337,1:100
Scan 137
5.46 min.
100
0
64
92
112
127
139
167
193
207
231
342
80
120
160
200
240
280
320
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320


File >LS239
Bpk Ab 9999
10000
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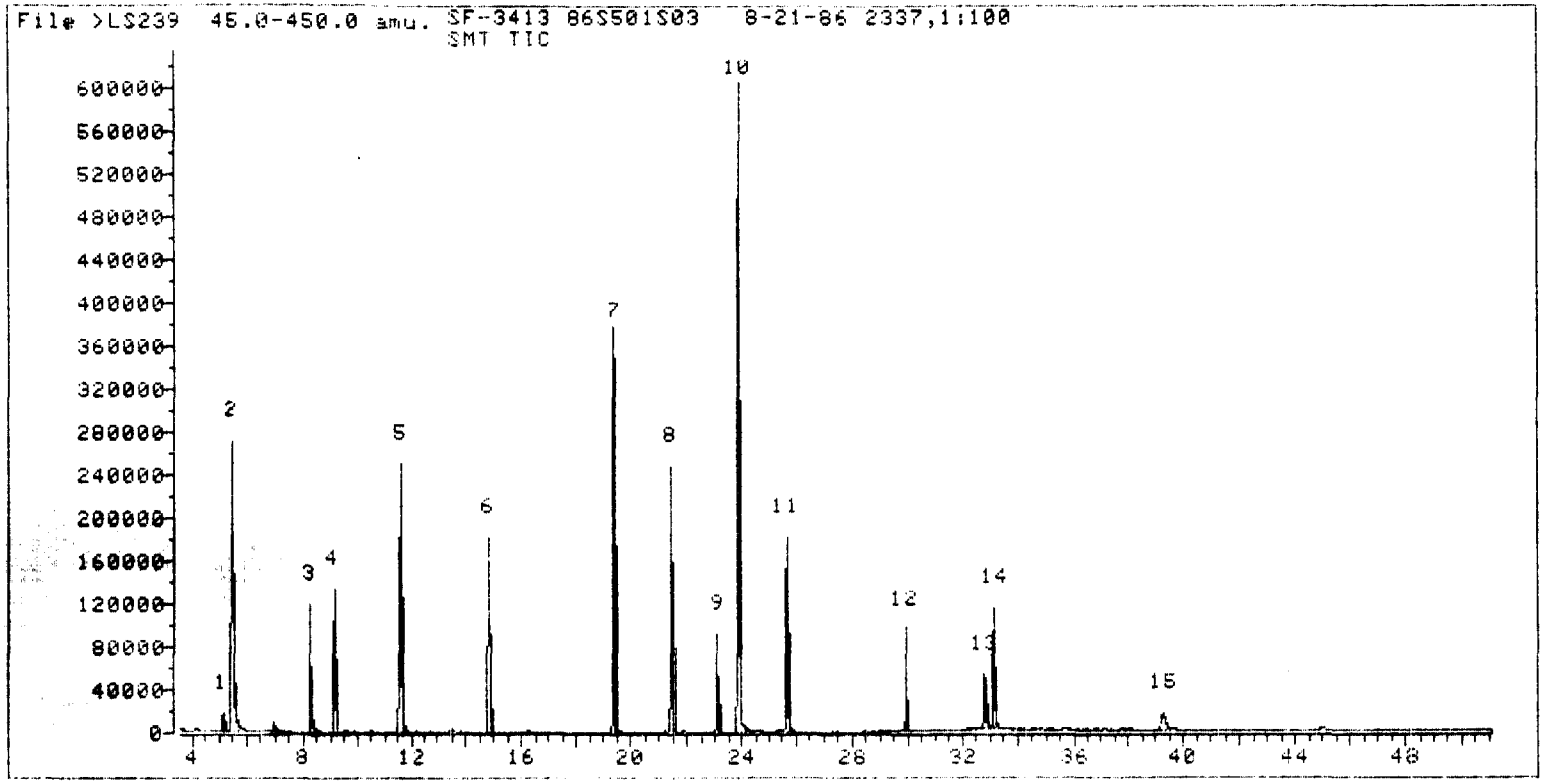
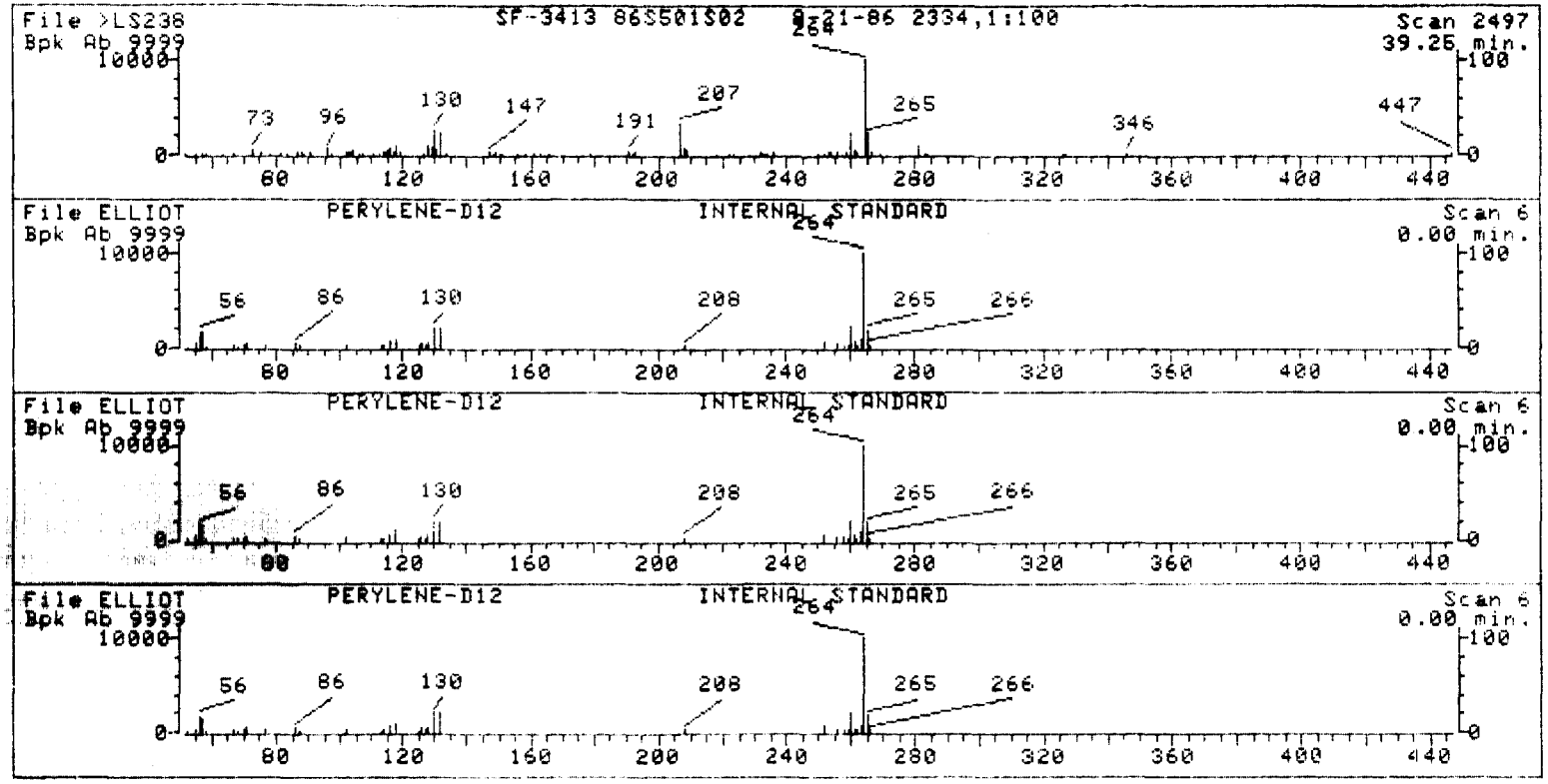
SF-3413 86S501S03 8-21-86 2337,1:100
Scan 111
5.09 min.
100
0
54
83
128
140
207
242
354
376
446
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
0
2-Oxabicyclo[4.1.0]heptane
Scan 11055
0.00 min.
100
0
54
83
99
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
0
Pyridine, 2,3,4,5-tetrahydro-
Scan 10748
0.00 min.
100
0
55
83
86
80 120 160 200 240 280 320 360 400 440
File >BIGDB
Bpk Ab 9999
10000
0
2-Oxabicyclo[4.1.0]heptane
Scan 11054
0.00 min.
100
0
54
83
99
80 120 160 200 240 280 320 360 400 440


File >LS239 45.0-450.0 amu. SF-3413 86S501S03 8-21-86 2337,1:100
SMT TIC
600000
560000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
4
8
12
16
20
24
28
32
36
40
44
48
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

>LS239 SF-3413 86S501S03 8-21-86 2337.1:100
45.01 450.0 SMT TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.086	106	111	122	16807	98834	75292	2.66	.642
2	5.459	132	137	156	270130	1292959	1259927	44.44	10.746
3	8.236	326	331	355	119129	578321	554248	19.55	4.727
4	9.095	385	391	409	132700	553091	533947	18.83	4.554
5	11.614	557	567	583	249941	1219544	1199353	42.31	10.229
6	14.776	779	788	802	182260	776959	765024	26.98	6.525
7	19.381	1103	1110	1123	378007	1347460	1335428	47.11	11.390
8	21.442	1248	1254	1263	246037	925878	909373	32.08	7.756
9	23.088	1364	1369	1381	91269	306489	296511	10.46	2.529
10	23.832	1412	1421	1465	602823	2862677	2834998	100.00	24.180
11	25.624	1539	1546	1560	181781	709553	691906	24.41	5.901
12	29.892	1838	1844	1853	95576	381627	361187	12.74	3.081
13	32.775	2037	2045	2059	50441	323892	257042	9.07	2.192
14	33.149	2062	2071	2087	112479	571454	486253	17.15	4.147
15	39.260	2484	2497	2522	14896	251200	163996	5.78	1.399

Sum of corrected areas: 11724488.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Bpk Ab 9999
SF-3413 86S501S02 9-21-86 2334,1:100
Scan 2497
39.25 min.
264
265
73
96
130
147
191
207
346
447
File ELLIOT
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56
86
208
266
10000
100
0
80
120
160
200
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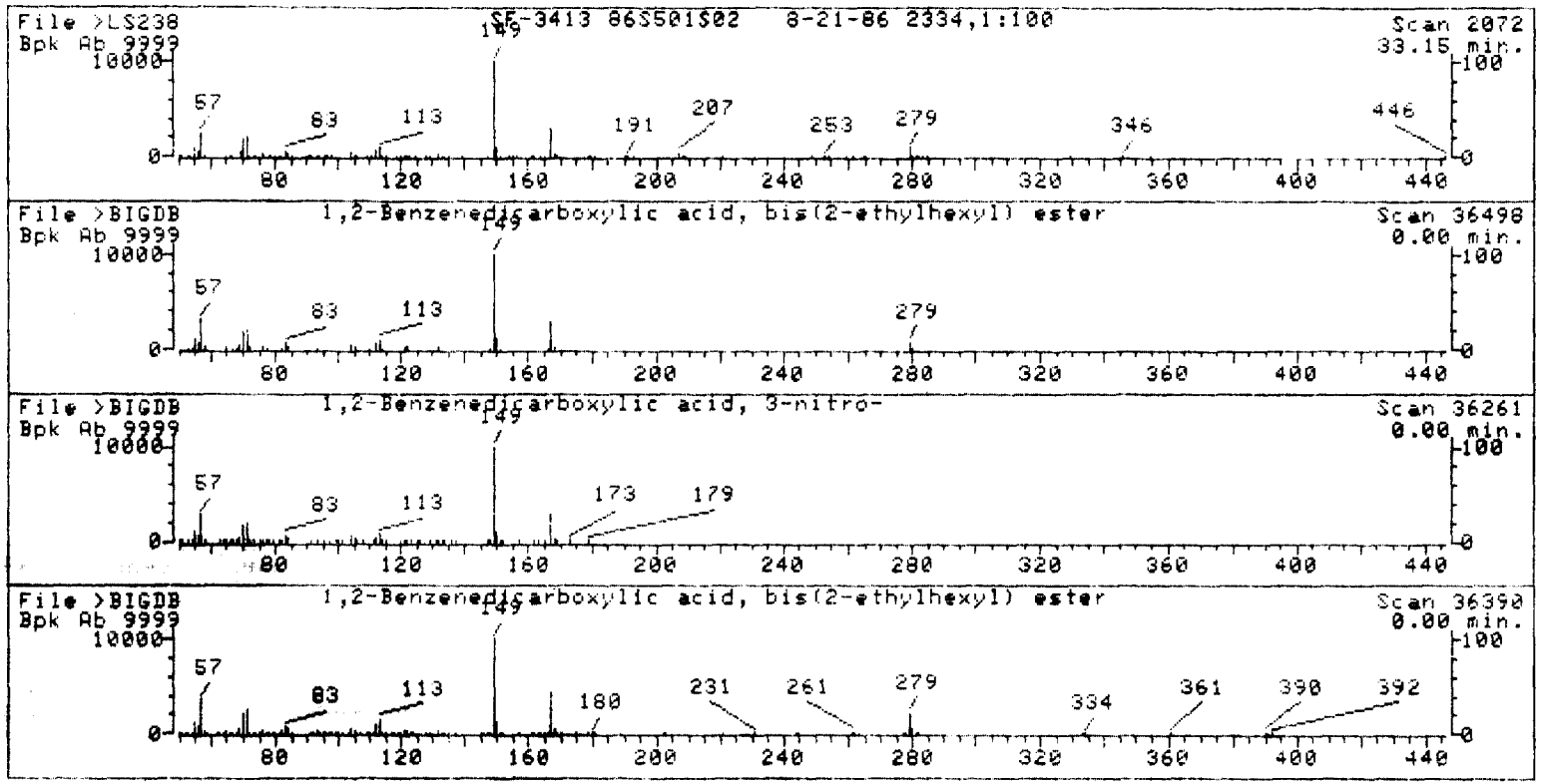
280
320
360
400
440


File >LS238
Bpk Ab 9999
10000
0
SF-3413 86S501S02 8-21-86 2334,1:100
Scan 2072
33.15 min.
100
0
57
83
113
149
191
207
253
279
346
446
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36498
0.00 min.
100
0
57
83
113
149
279
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, 3-nitro-
Scan 36261
0.00 min.
100
0
57
83
113
149
173
179
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36390
0.00 min.
100
0
57
83
113
149
180
231
261
279
334
361
390
392
80
120
160
200
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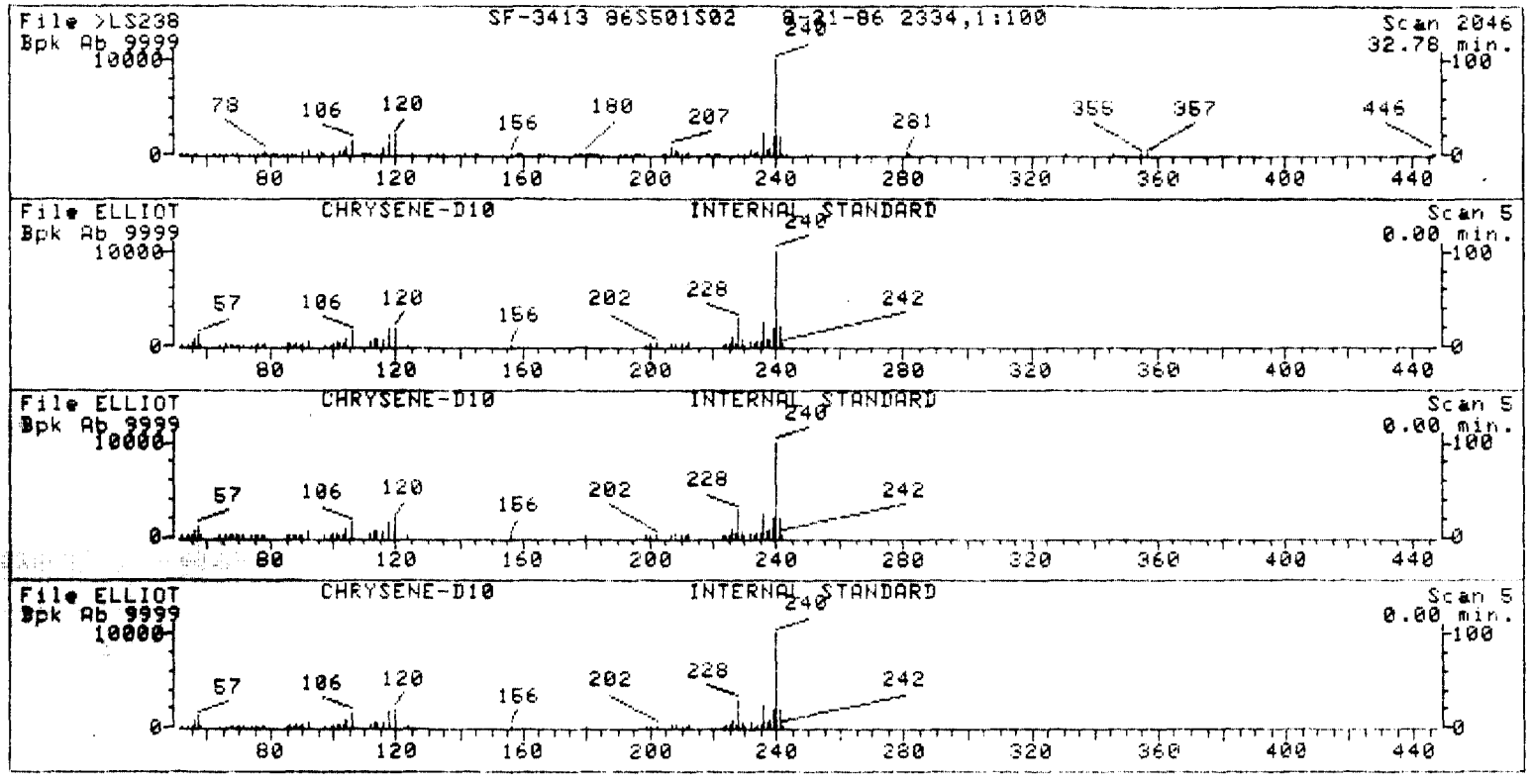
280
320
360
400
440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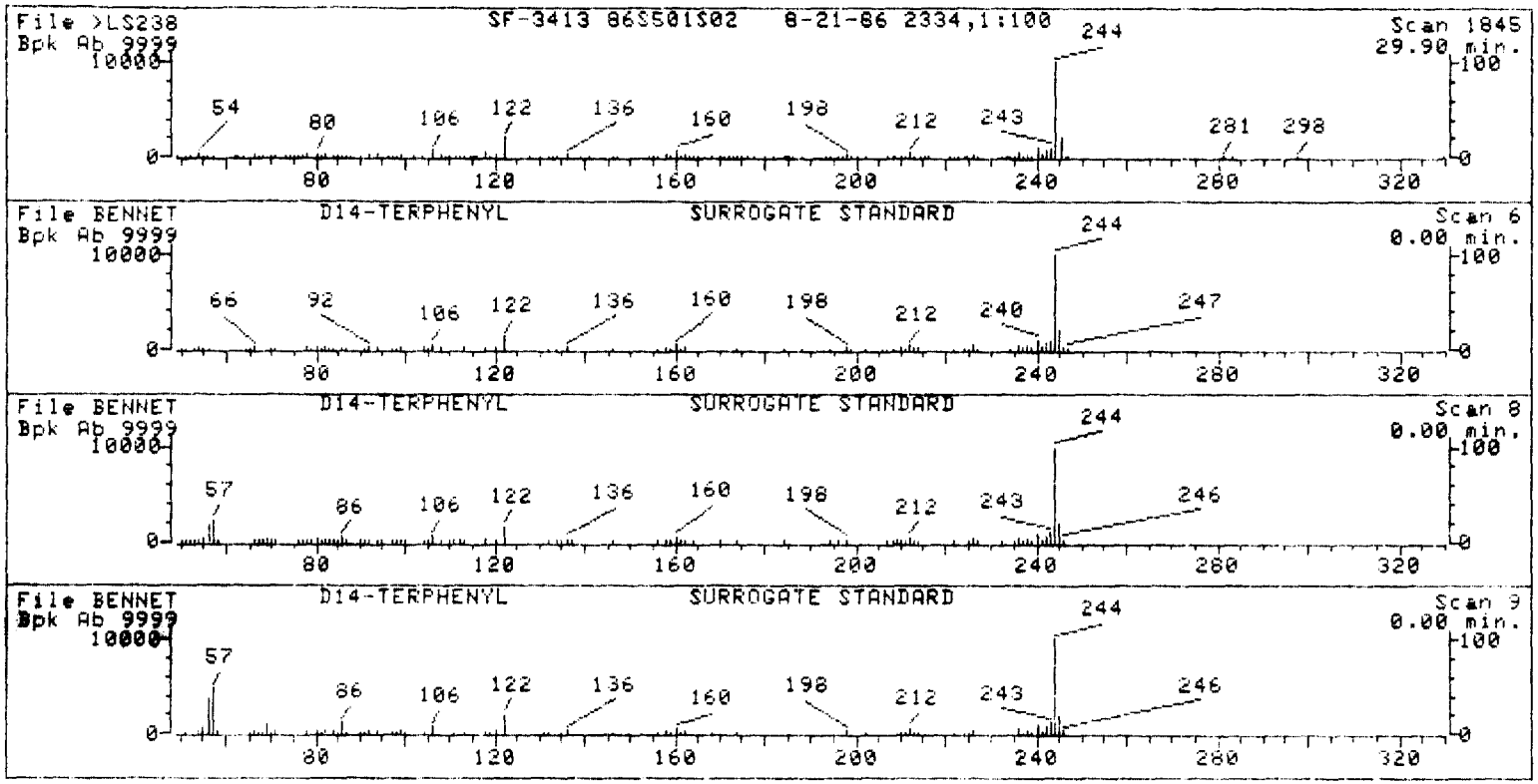
Bpk Ab 9999
SF-3413 86S501S02 8-21-86 2334,1:100
Scan 2046
32.78 min.
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.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Bpk Ab 9999
10000
SF-3413 86S501S02 8-21-86 2334,1:100
Scan 1845
29.90 min.
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File BENNET
Bpk Ab 9999
10000
D14-TERPHENYL SURROGATE STANDARD
Scan 6
0.00 min.
66 92 106 122 136 160 198 212 240 244 247
File BENNET
Bpk Ab 9999
10000
D14-TERPHENYL SURROGATE STANDARD
Scan 8
0.00 min.
57 86 106 122 136 160 198 212 243 244 246
File BENNET
Bpk Ab 9999
10000
D14-TERPHENYL SURROGATE STANDARD
Scan 9
0.00 min.
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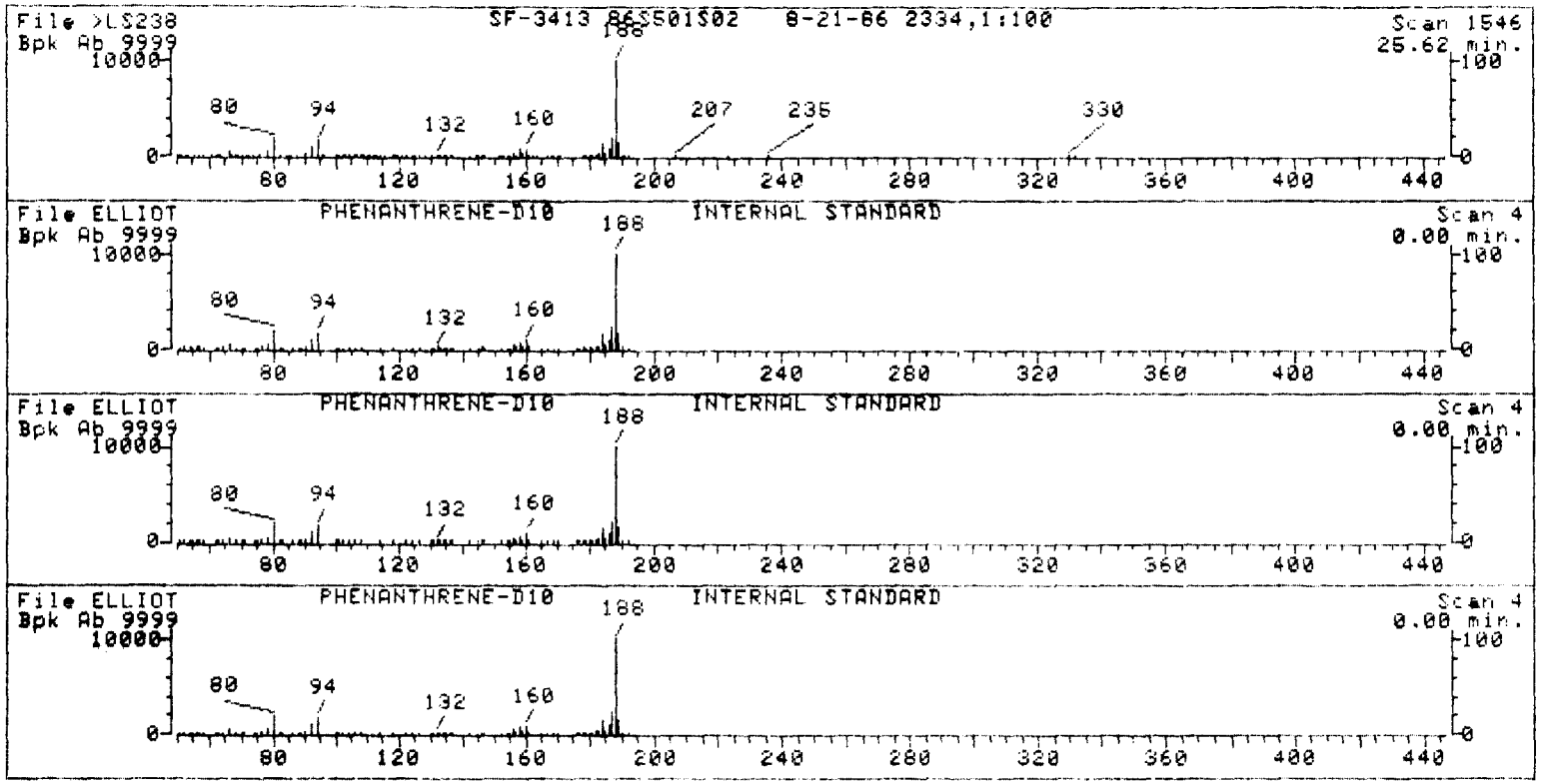
0 80 120 160 200 240 280 320
100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Scan 1546
25.62 min.
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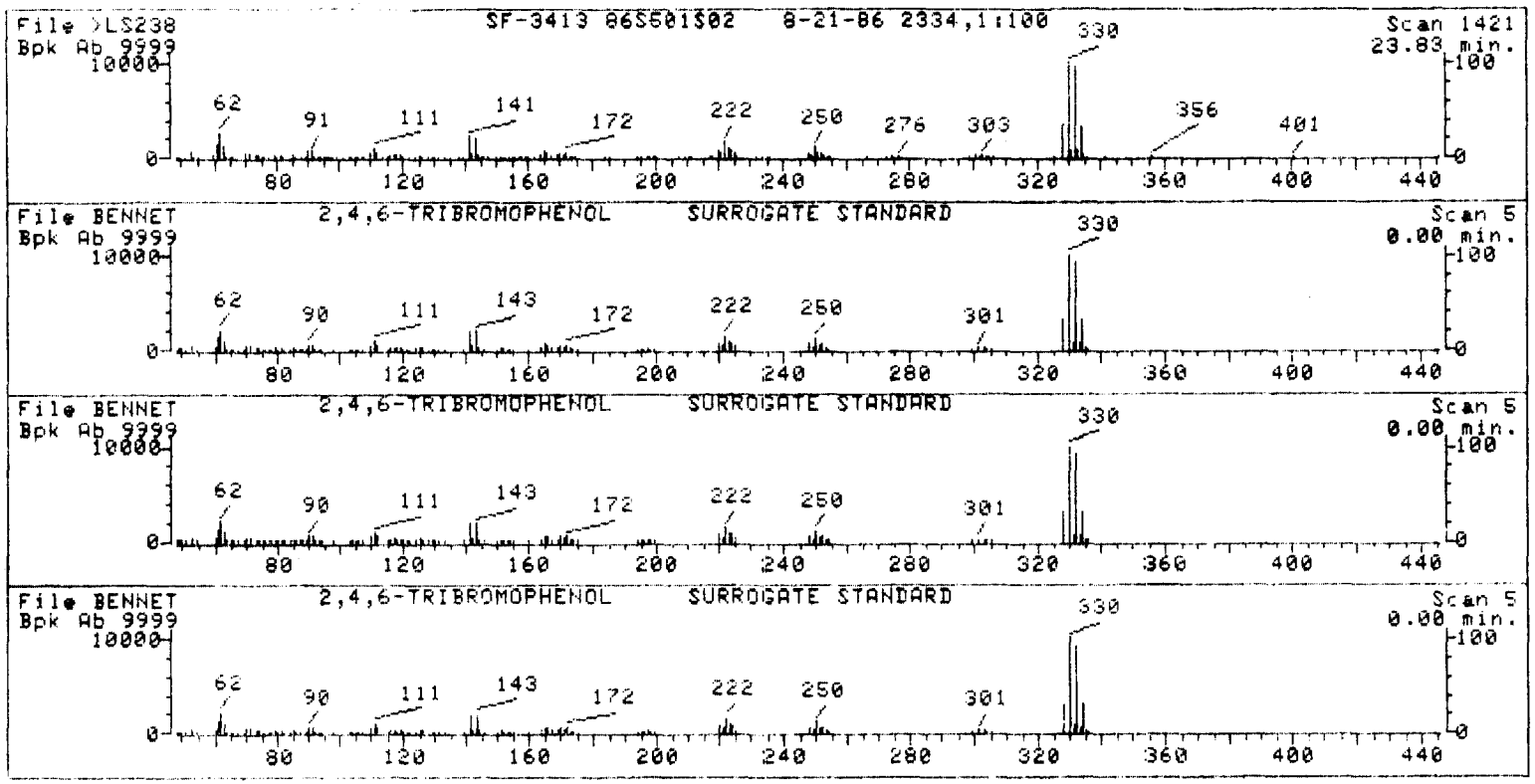
0
188
80
94
132
160
207
235
330
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
188
80
94
132
160
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
188
80
94
132
160
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
0
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
188
80
94
132
160
80 120 160 200 240 280 320 360 400 440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SF-3413 86S501$02 8-21-86 2334,1:100
Scan 1421
23.83 min.
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10000
62 91 111 141 172 222 250 276 303 330 356 401
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
Bpk Ab 9999
10000
62 90 111 143 172 222 250 301 330
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
Bpk Ab 9999
10000
62 90 111 143 172 222 250 301 330
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
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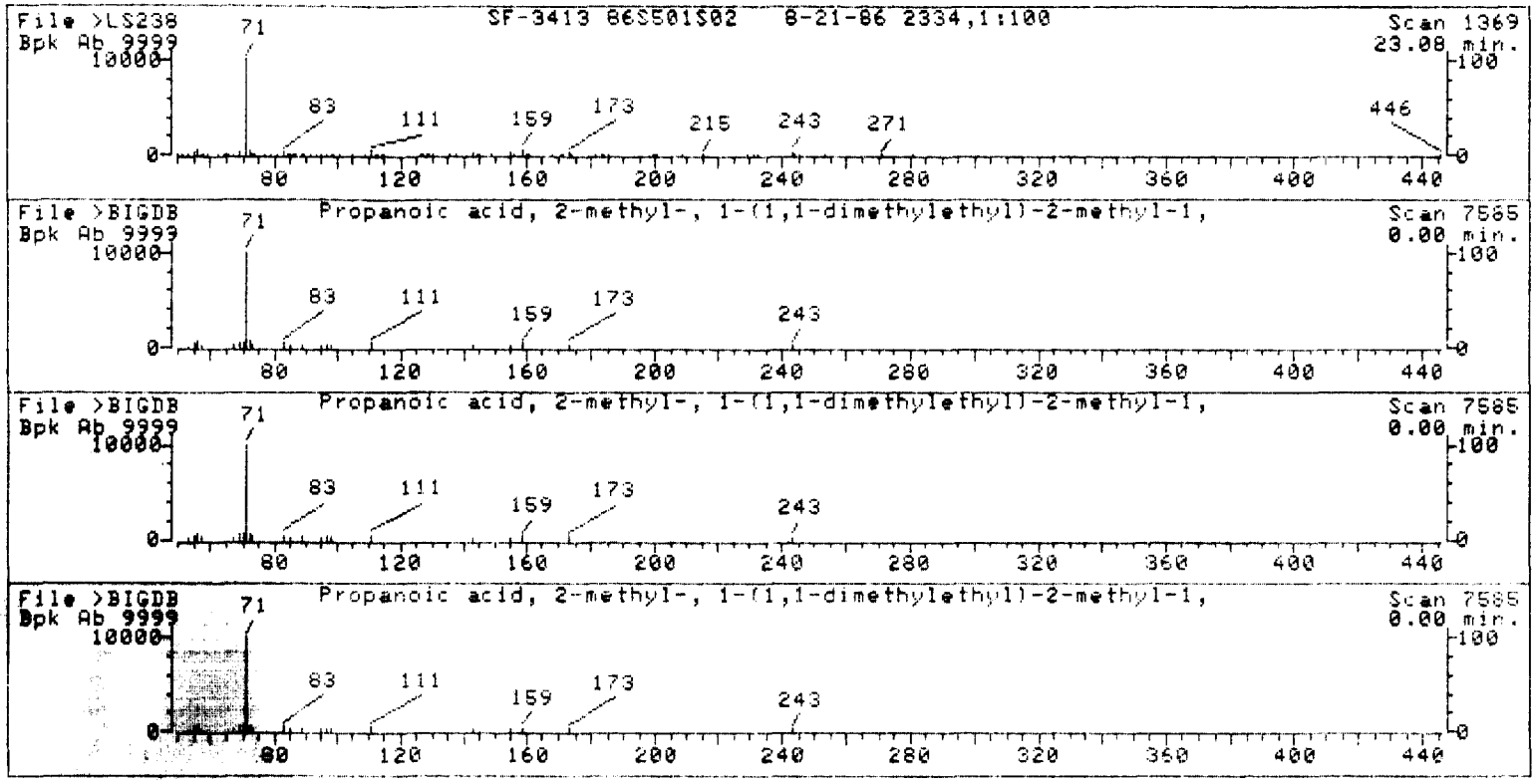
10000
62 90 111 143 172 222 250 301 330
0 80 120 160 200 240 280 320 360 400 440
100


File >LS238
Bpk Ab 9999
SF-3413 86S501S02 8-21-86 2334,1:100
Scan 1369
23.08 min.
71
83
111
159
173
215
243
271
446
File >BIGDB
Bpk Ab 9999
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7565
0.00 min.
File >BIGDB
Bpk Ab 9999
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
File >BIGDB
Bpk Ab 9999
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
10000
0
100
80
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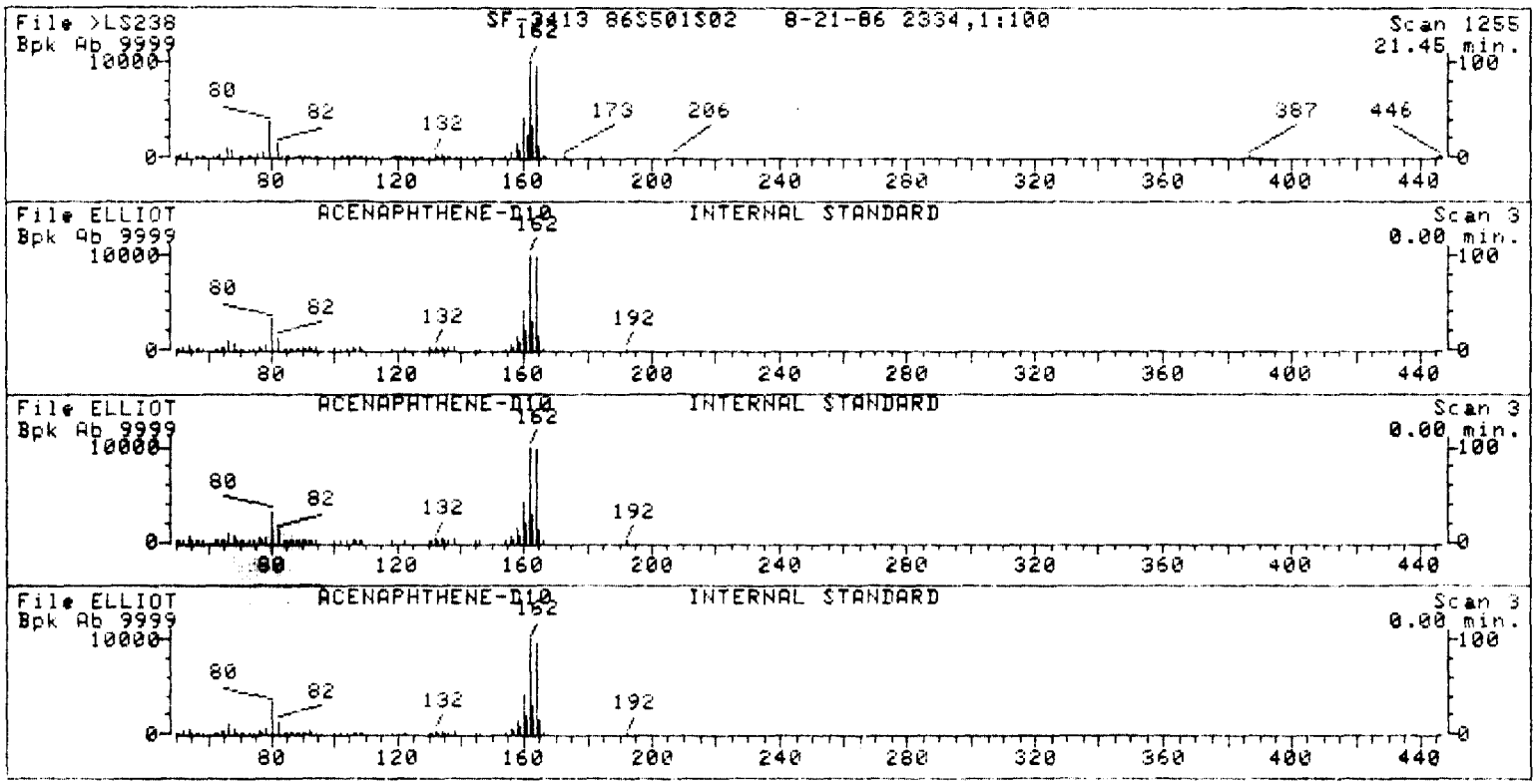
160
200
240
280
320
360
400
440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21.45 min.
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80
82
132
162
173
206
387
446
80 120 160 200 240 280 320 360 400 440
File ELLIOT
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
Bpk Ab 9999
10000
0
100
80
82
132
162
192
80 120 160 200 240 280 320 360 400 440
File ELLIOT
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
Bpk Ab 9999
10000
0
100
80
82
132
162
192
80 120 160 200 240 280 320 360 400 440
File ELLIOT
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
Bpk Ab 9999
10000
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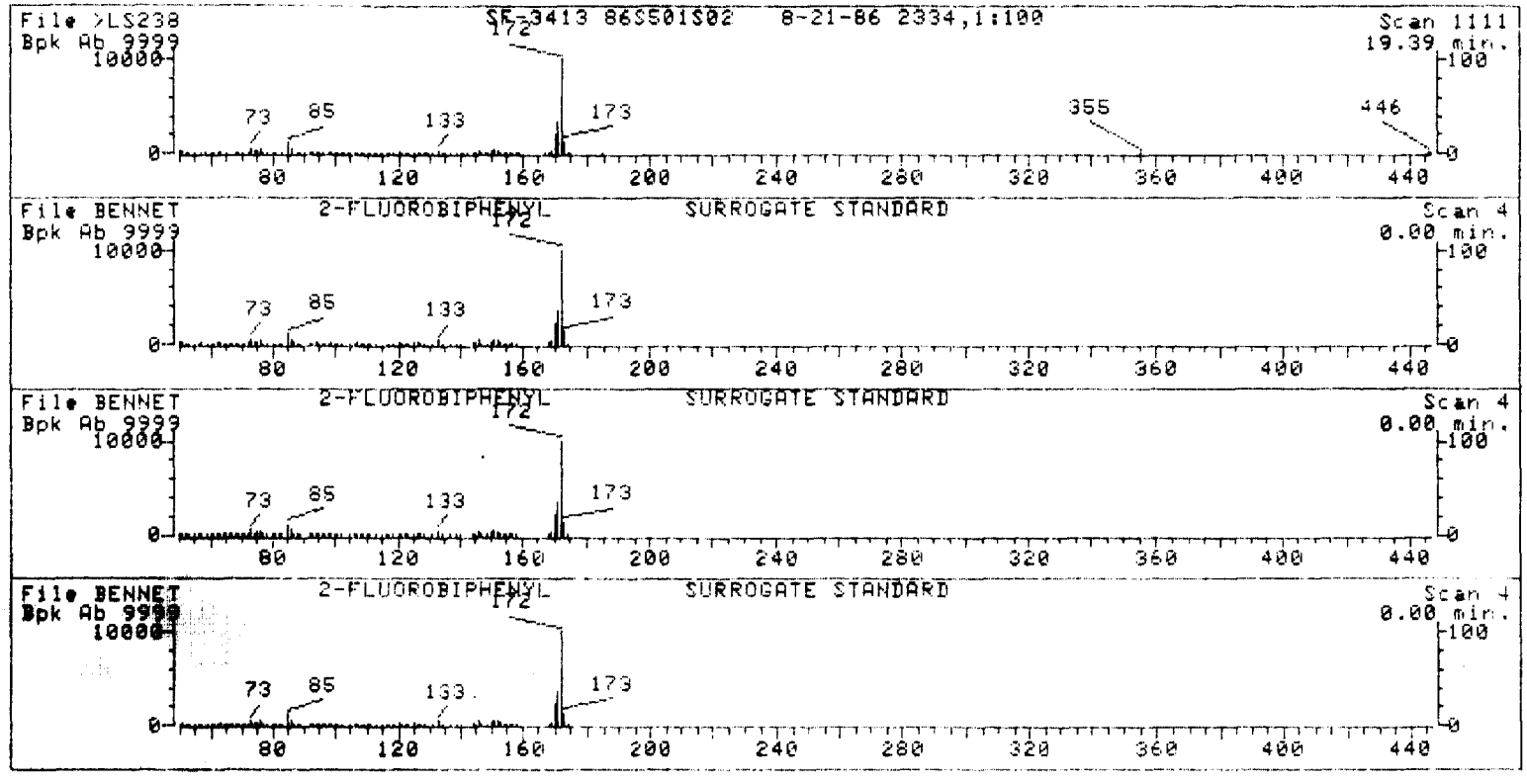
82
132
162
192
80 120 160 200 240 280 320 360 400 440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SE-3413 86S501S02 8-21-86 2334,1:100
Scan 1111
19.39 min.
172
73
85
133
173
355
446
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
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160
200
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400
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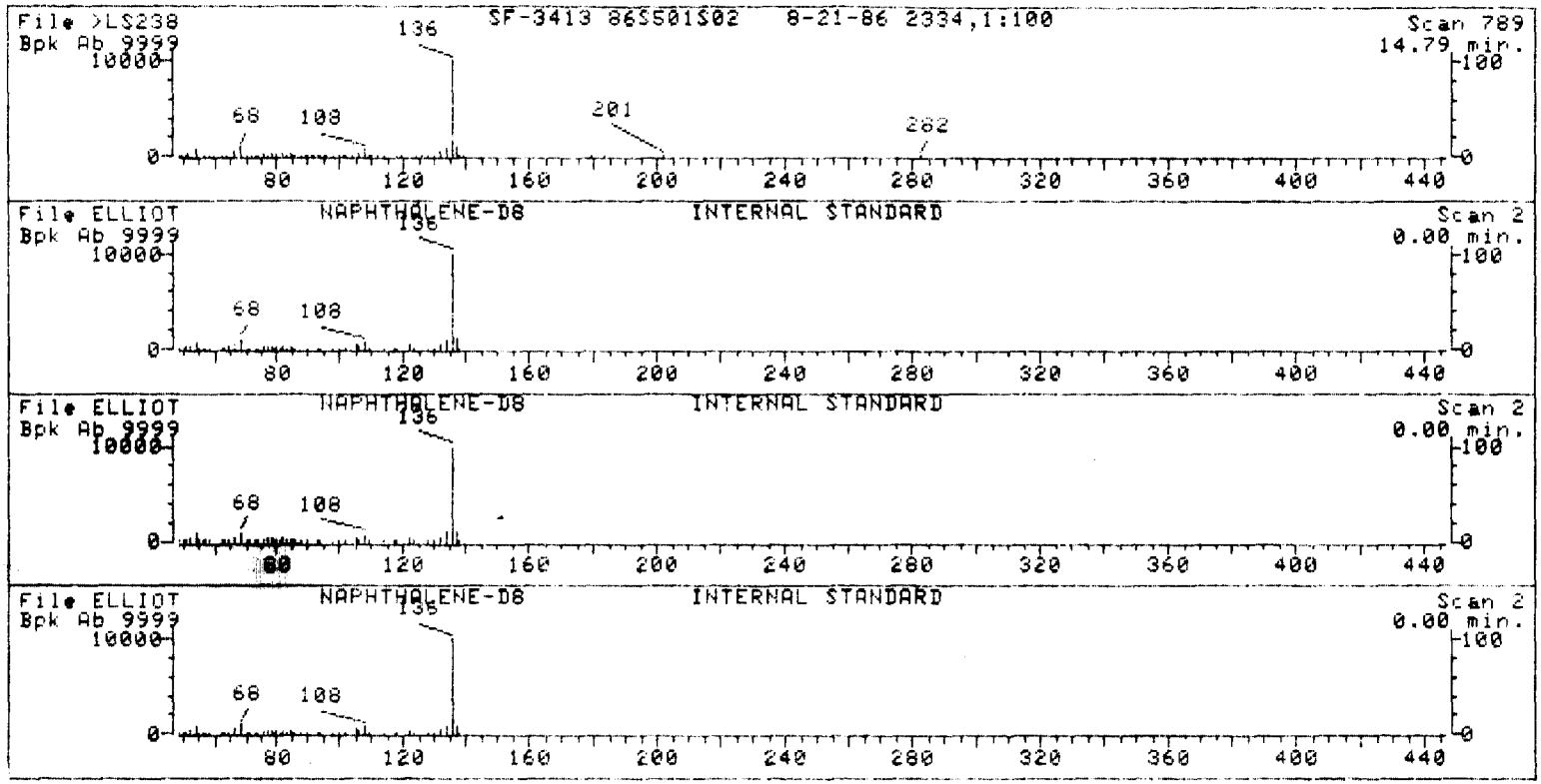
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SF-3413 863501S02 8-21-86 2334,1:100
Scan 789
14.79 min.
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0
136
68
108
201
282
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120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
100
0
136
68
108
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
100
0
136
68
108
File ELLIOT
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NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
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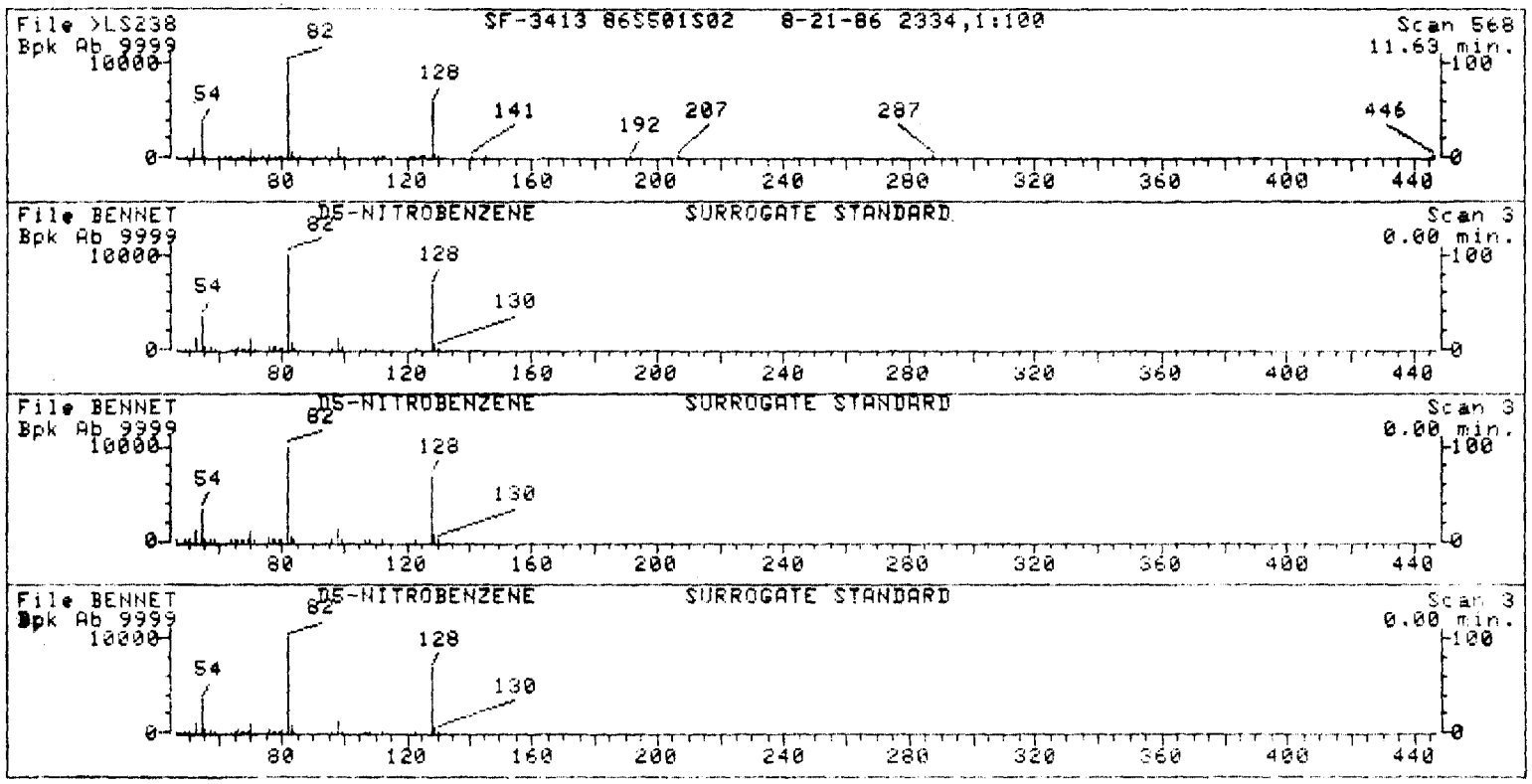
136
68
108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SF-3413 865501S02 8-21-86 2334,1:100
Scan 568
11.63 min.
82
128
54
141
192
207
287
446
File BENNET
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130
File BENNET
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
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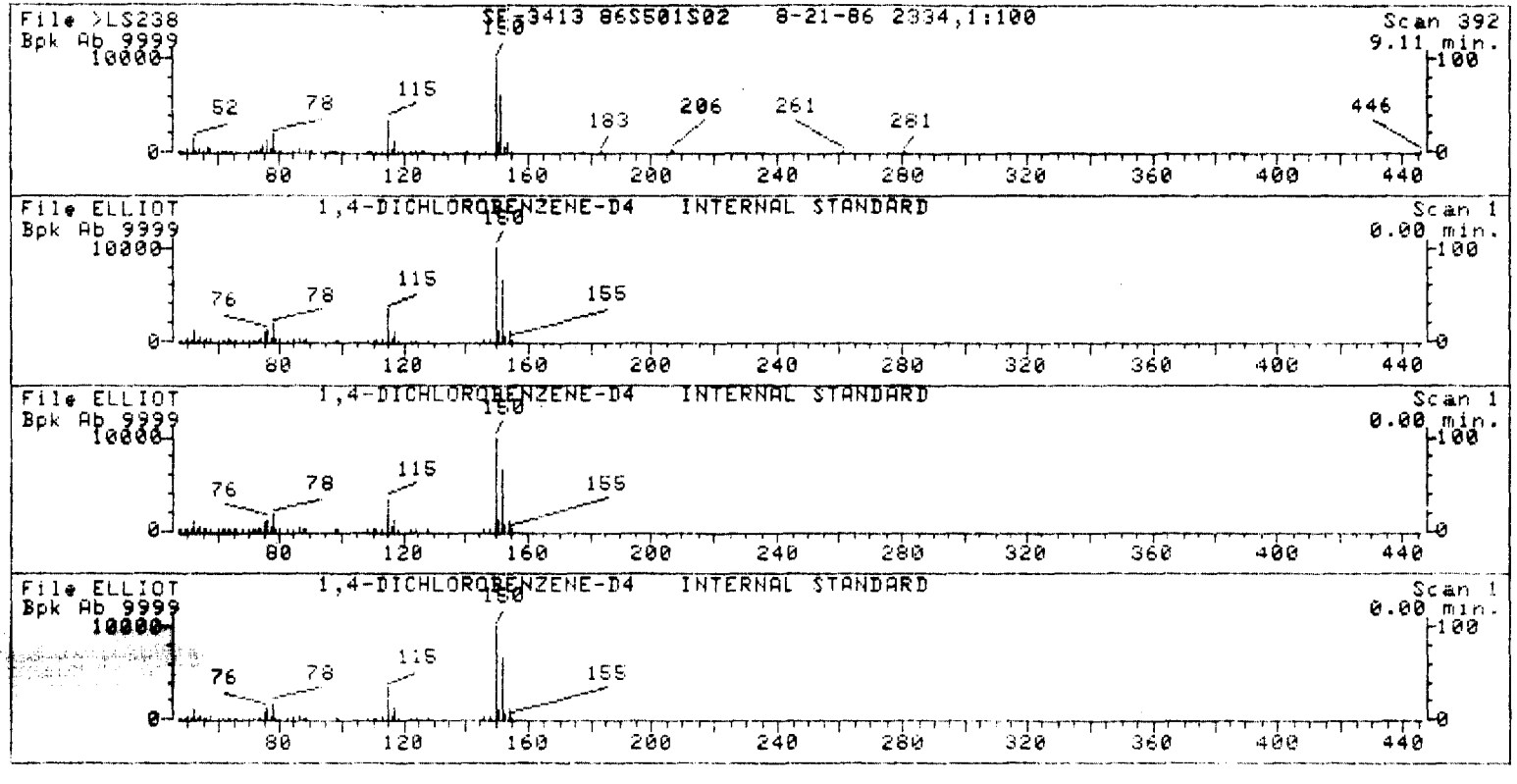
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130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SE-3413 86S501S02 8-21-86 2334,1:100
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52
78
115
150
183
206
261
281
446
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
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0
76
78
115
150
155
80
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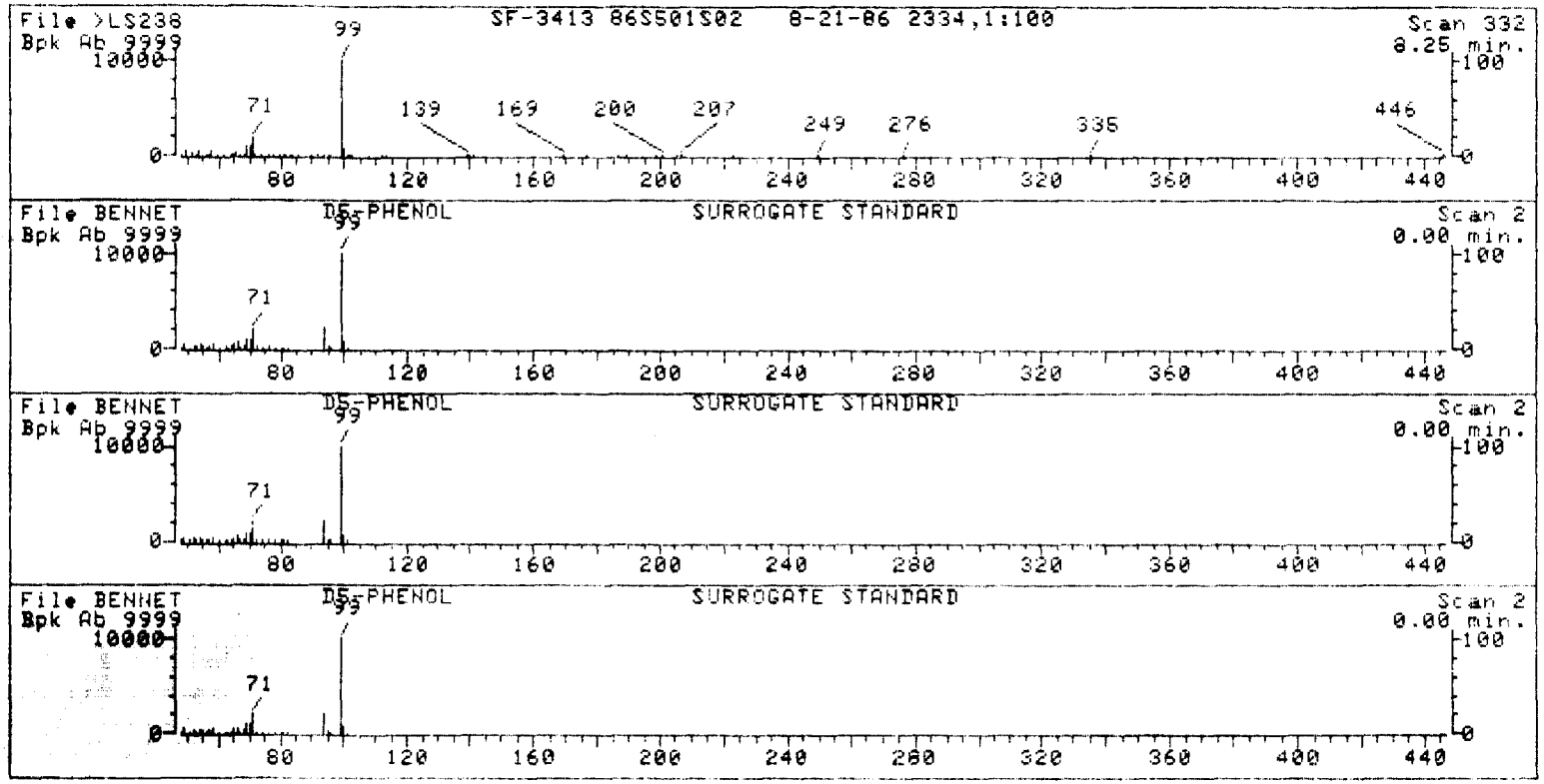
160
200
240
280
320
360
400
440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8.25 min.
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0
99
71
139
169
200
207
249
276
335
446
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
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0
99
71
80
120
160
200
240
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320
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400
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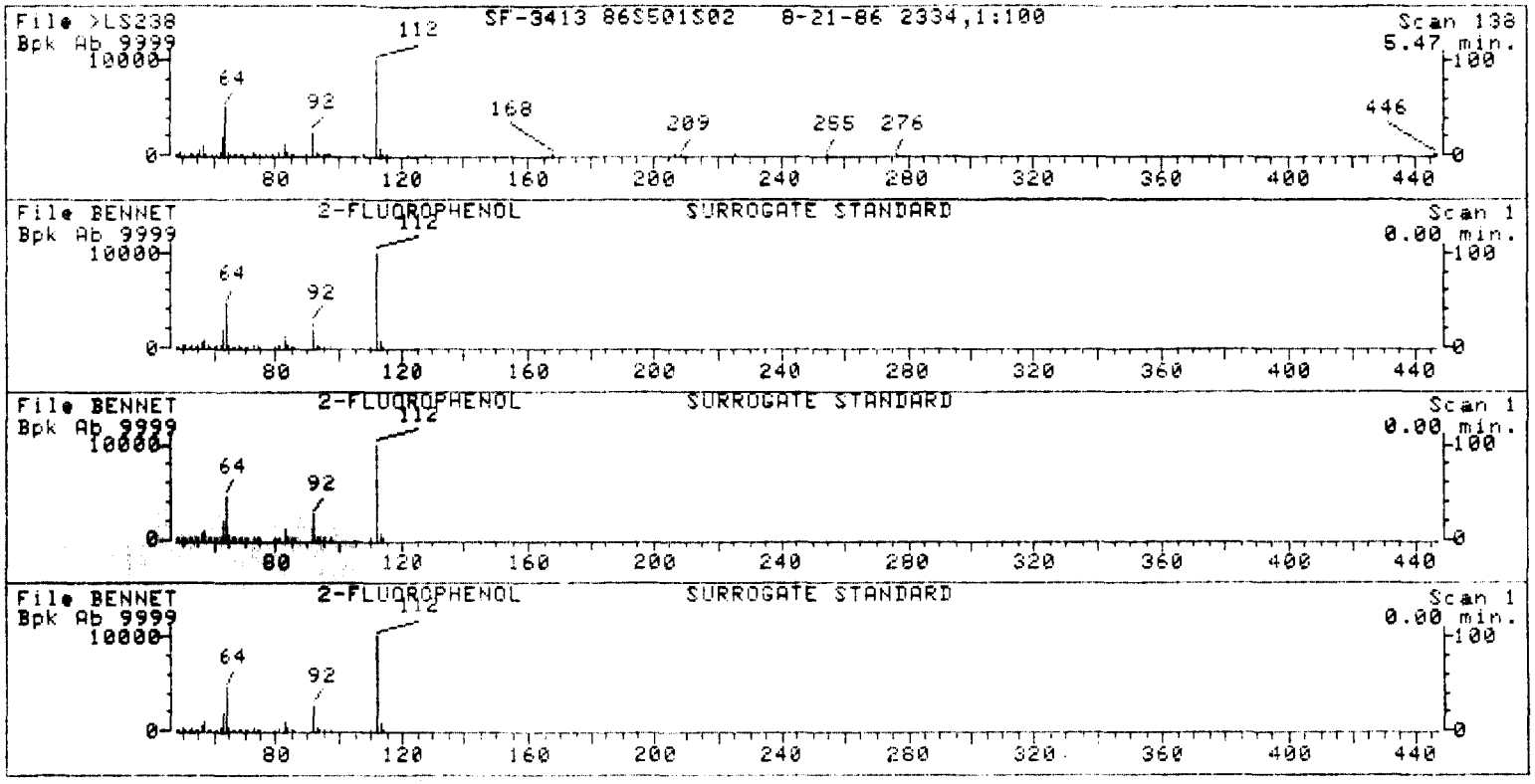
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Bpk Ab 9999
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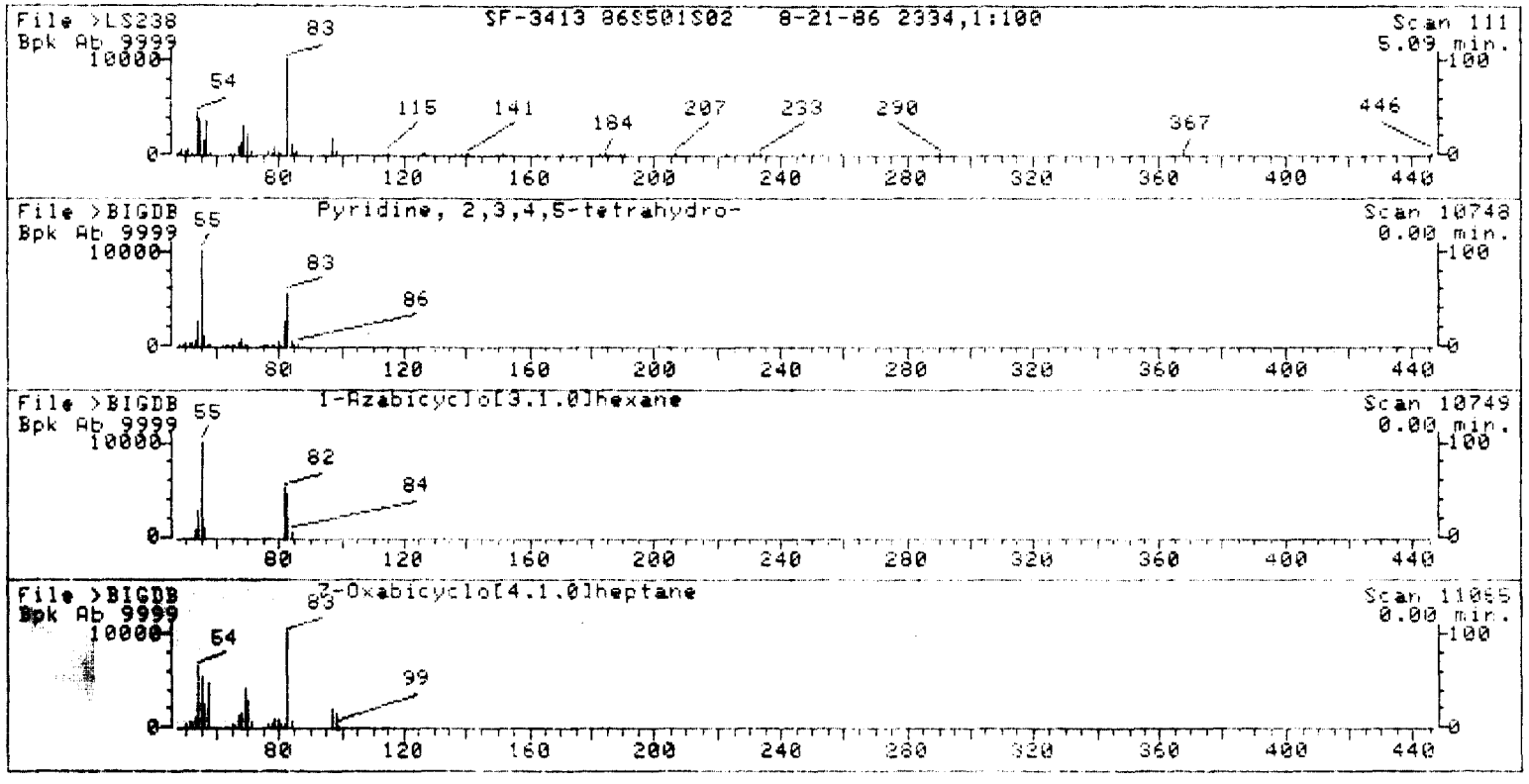
Scan 138
5.47 min.
112
64
92
168
209
255
276
446
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
File BENNET
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.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Bpk Ab 9999
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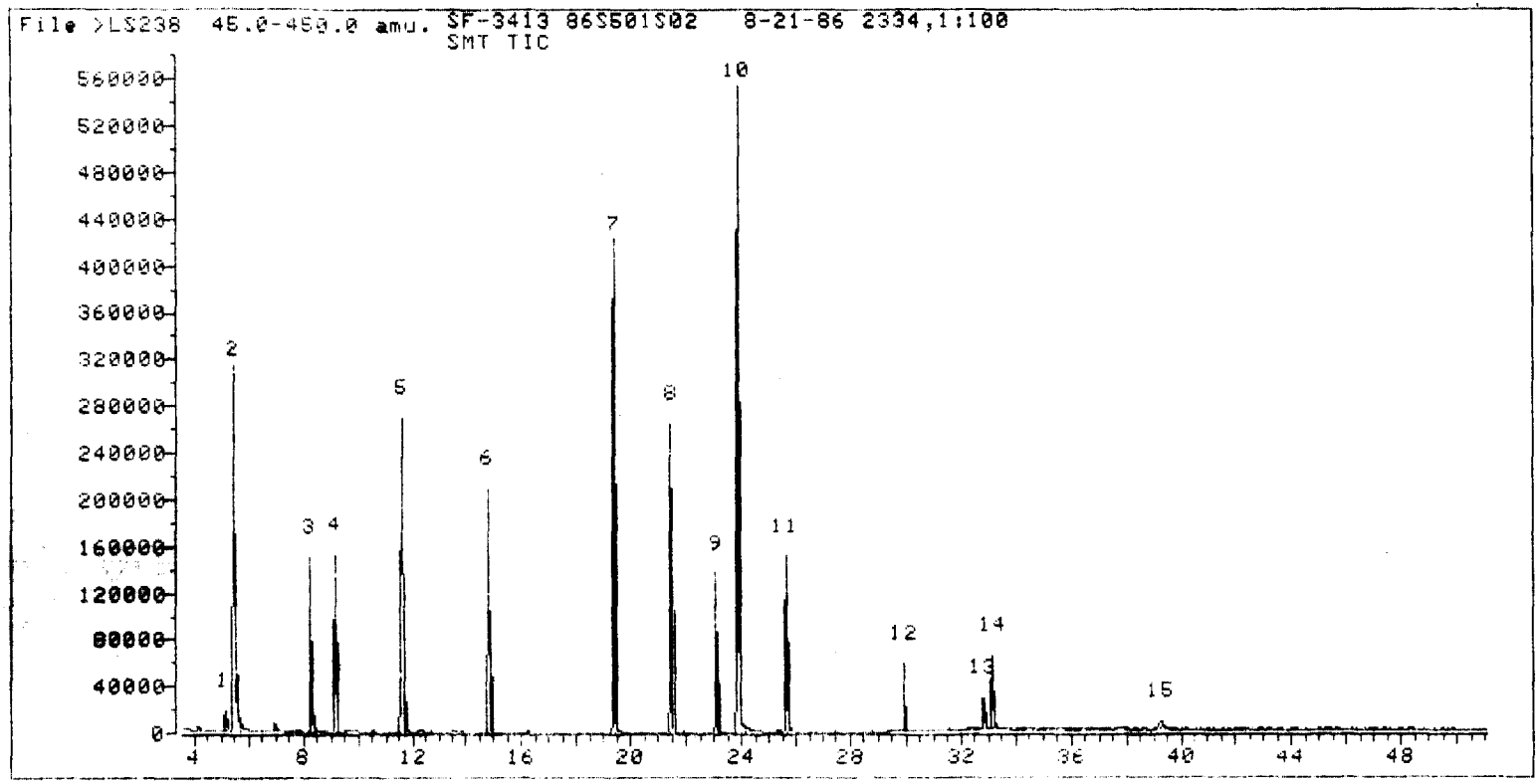
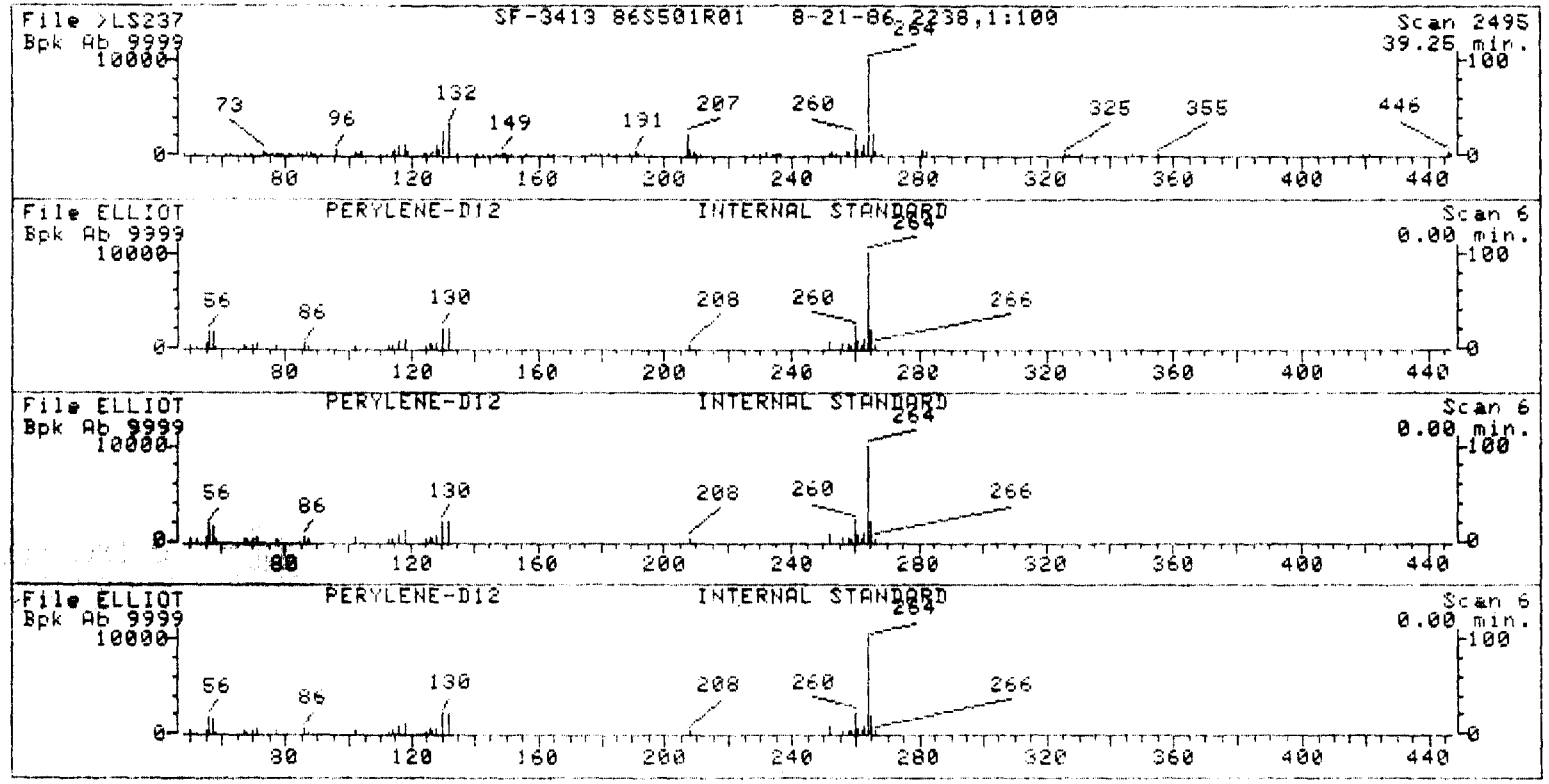
SF-3413 86S501S02 8-21-86 2334,1:100
Scan 111
5.09 min.
83
54
115
141
184
207
233
290
367
446
File >BIGDB
Bpk Ab 9999
10000
Pyridine, 2,3,4,5-tetrahydro-
Scan 10748
0.00 min.
55
83
86
File >BIGDB
Bpk Ab 9999
10000
1-Azabicyclo[3.1.0]hexane
Scan 10749
0.00 min.
55
82
84
File >BIGDB
Bpk Ab 9999
10000
2-Oxabicyclo[4.1.0]heptane
Scan 11065
0.00 min.
54
83
99
0
80
120
160
200
240
280
320
360
400
440
100


File >LS238 45.0-450.0 amu. SF-3413 86S501S02 8-21-86 2334,1:100
SMT TIC
560000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
4
8
12
16
20
24
28
32
36
40
44
48
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

>LS238 SF-3413 86S501S02 8-21-86 2334.1:100
45.01 450.0 SMT TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.085	106	111	124	16863	101588	73062	2.91	.624
2	5.472	132	138	156	313703	1441400	1407482	56.07	12.014
3	8.249	326	332	357	148866	665217	639914	25.49	5.462
4	9.108	385	392	406	151195	636452	619155	24.67	5.285
5	11.626	555	568	584	269452	1359279	1343016	53.51	11.464
6	14.788	780	789	802	208029	901583	888504	35.40	7.584
7	19.393	1102	1111	1122	421899	1507995	1499497	59.74	12.800
8	21.453	1248	1255	1266	262989	998168	983211	39.17	8.393
9	23.084	1364	1369	1383	136207	456622	448525	17.87	3.829
10	23.828	1412	1421	1460	552680	2536600	2510000	100.00	21.426
11	25.620	1539	1546	1554	150578	606227	594423	23.68	5.074
12	29.899	1838	1845	1858	58258	245284	222201	8.85	1.897
13	32.781	2038	2046	2058	26157	191141	137219	5.47	1.171
14	33.154	2065	2072	2086	63086	345812	279494	11.14	2.386
15	39.249	2487	2497	2512	6699	134491	69252	2.76	.591

Sum of corrected areas: 11714958.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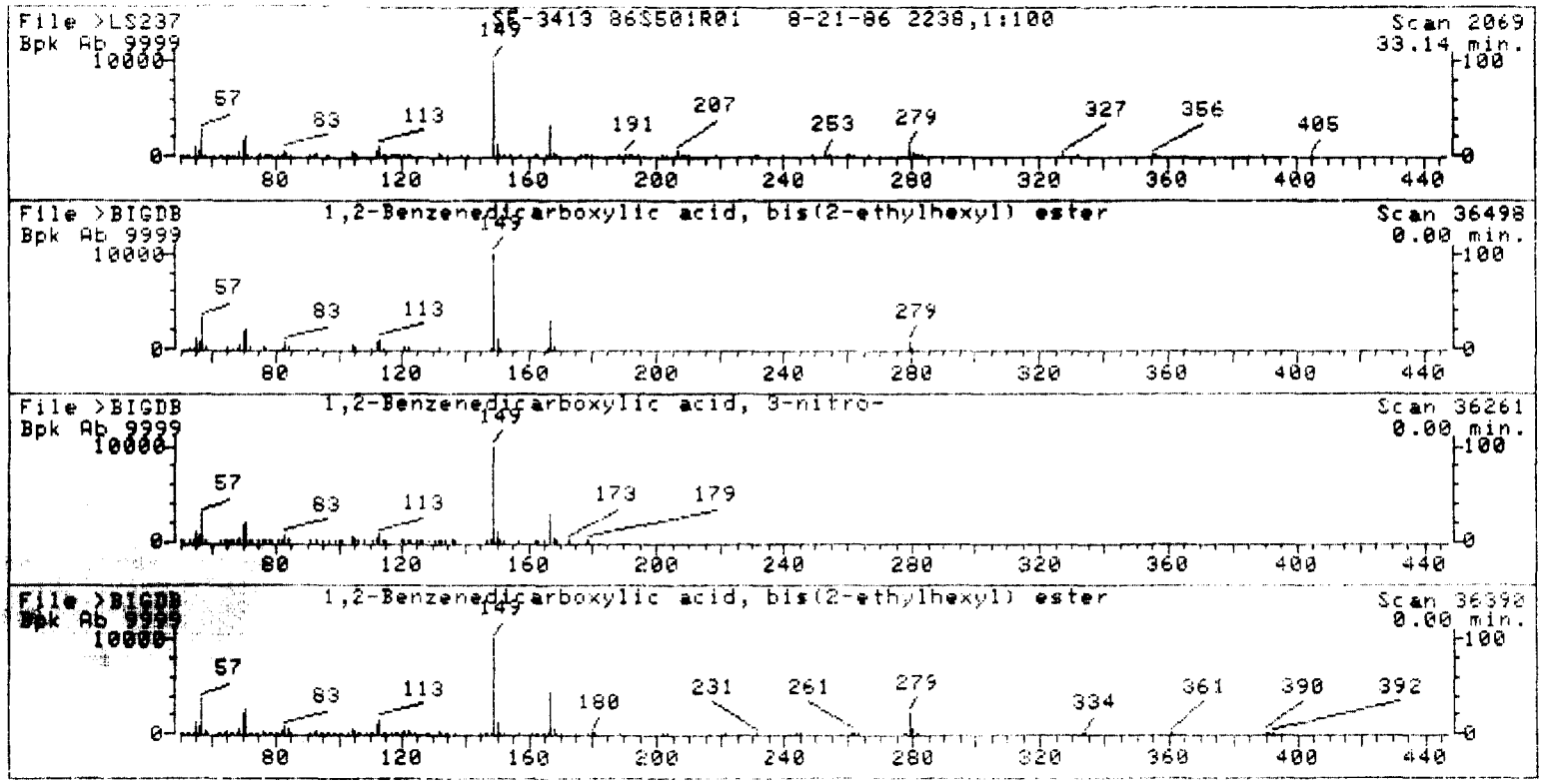
Scan 2495
39.25 min.
73 96 132 149 191 207 260 264 325 355 446
File ELLIOT
Bpk Ab 9999
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 260 264 266
File ELLIOT
Bpk Ab 9999
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 260 264 266
File ELLIOT
Bpk Ab 9999
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
56 86 130 208 260 264 266
10000
100
0
80 120 160 200 240 280 320 360 400 440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SE-3413 86S501R01 8-21-86 2238,1:100
Scan 2069
33.14 min.
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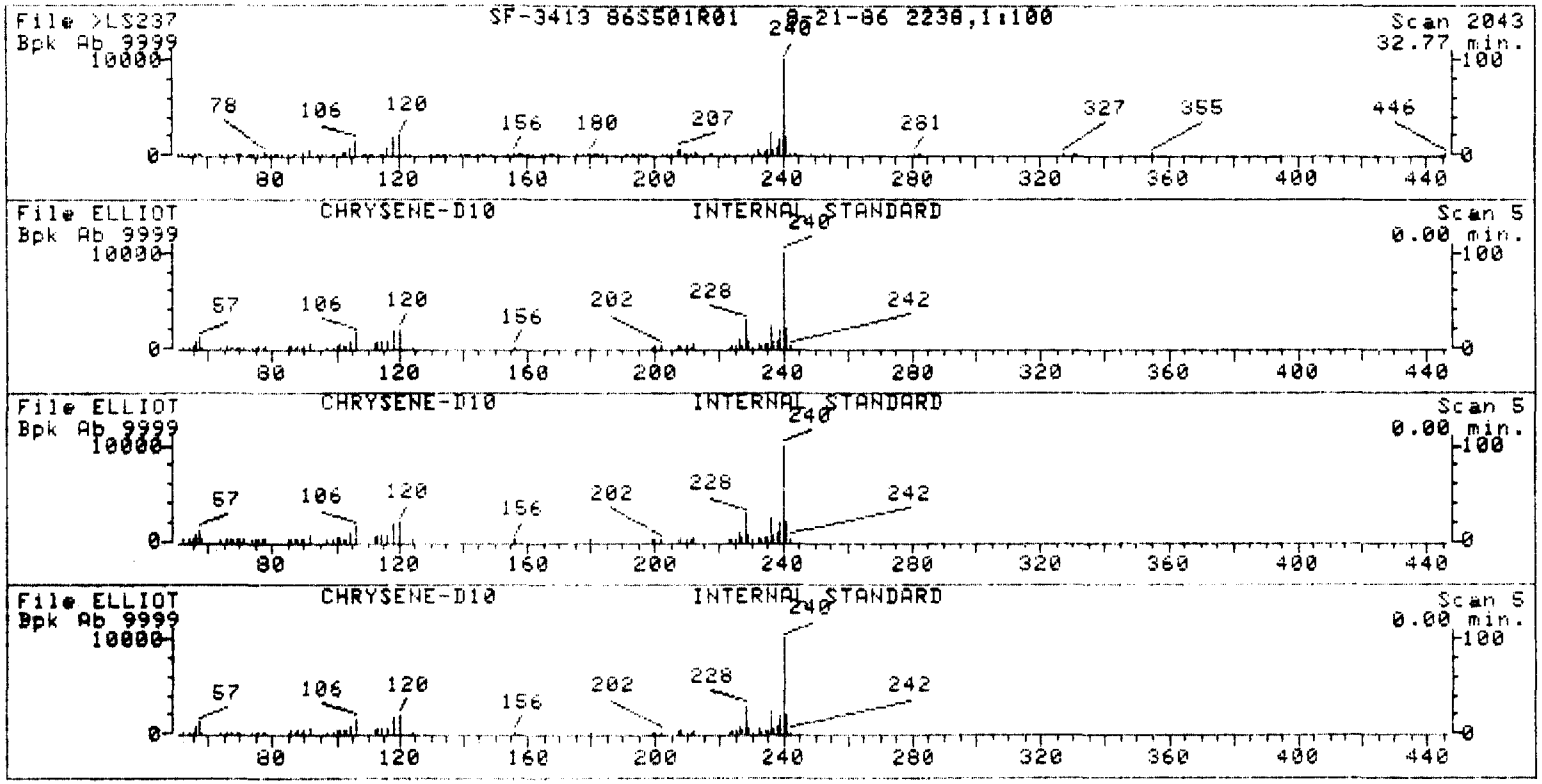
0
57
83
113
149
191
207
253
279
327
356
405
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36498
0.00 min.
100
0
57
83
113
149
279
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, 3-nitro-
Scan 36261
0.00 min.
100
0
57
83
113
149
173
179
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36390
0.00 min.
100
0
57
83
113
149
180
231
261
279
334
361
390
392
80
120
160
200
240
280
320
360
400
440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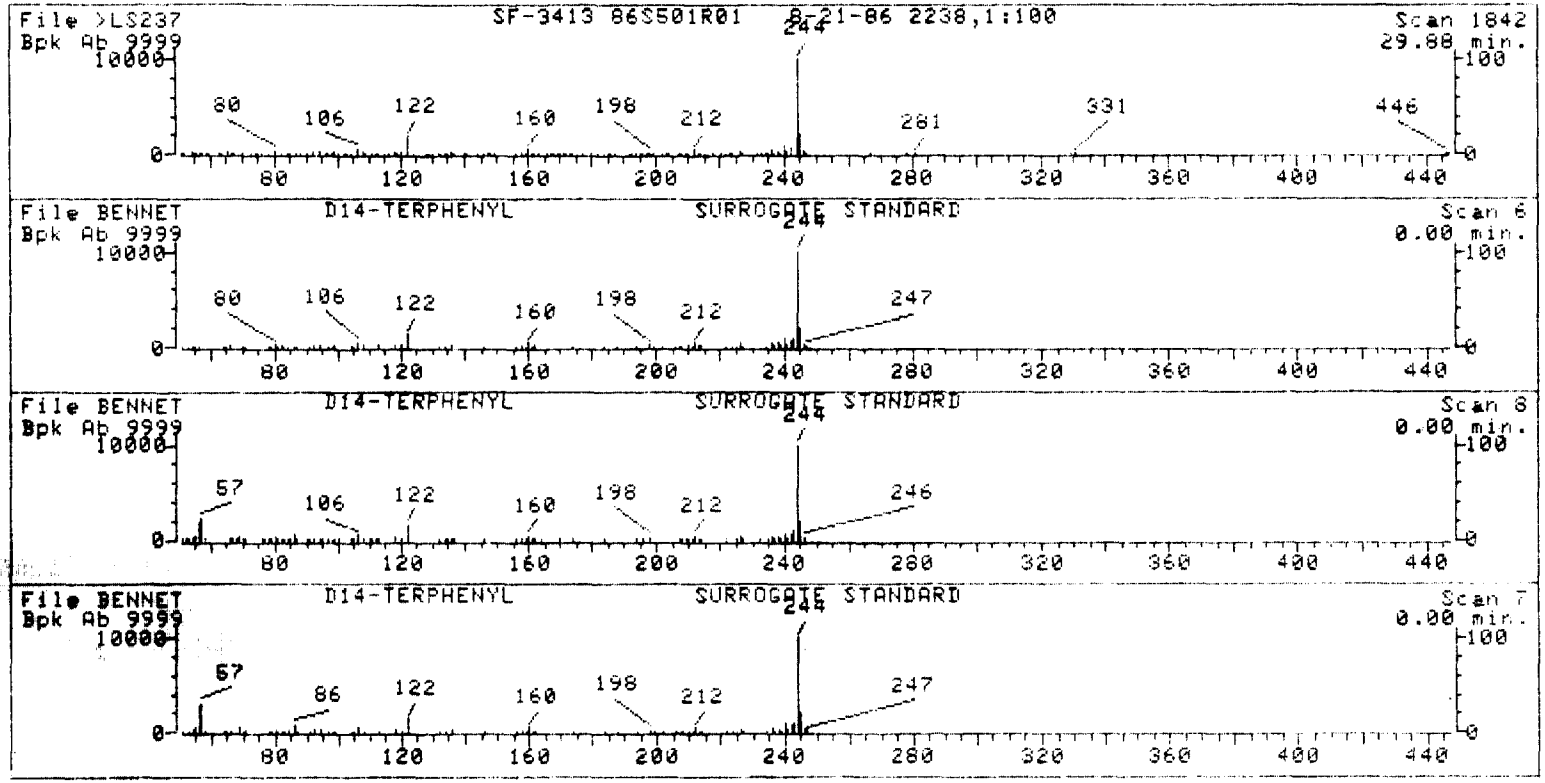
Bpk Ab 9999
SF-3413 86S501R01 8-21-86 2238,1:100
Scan 2043
32.77 min.
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
File ELLIOT
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.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Scan 1842
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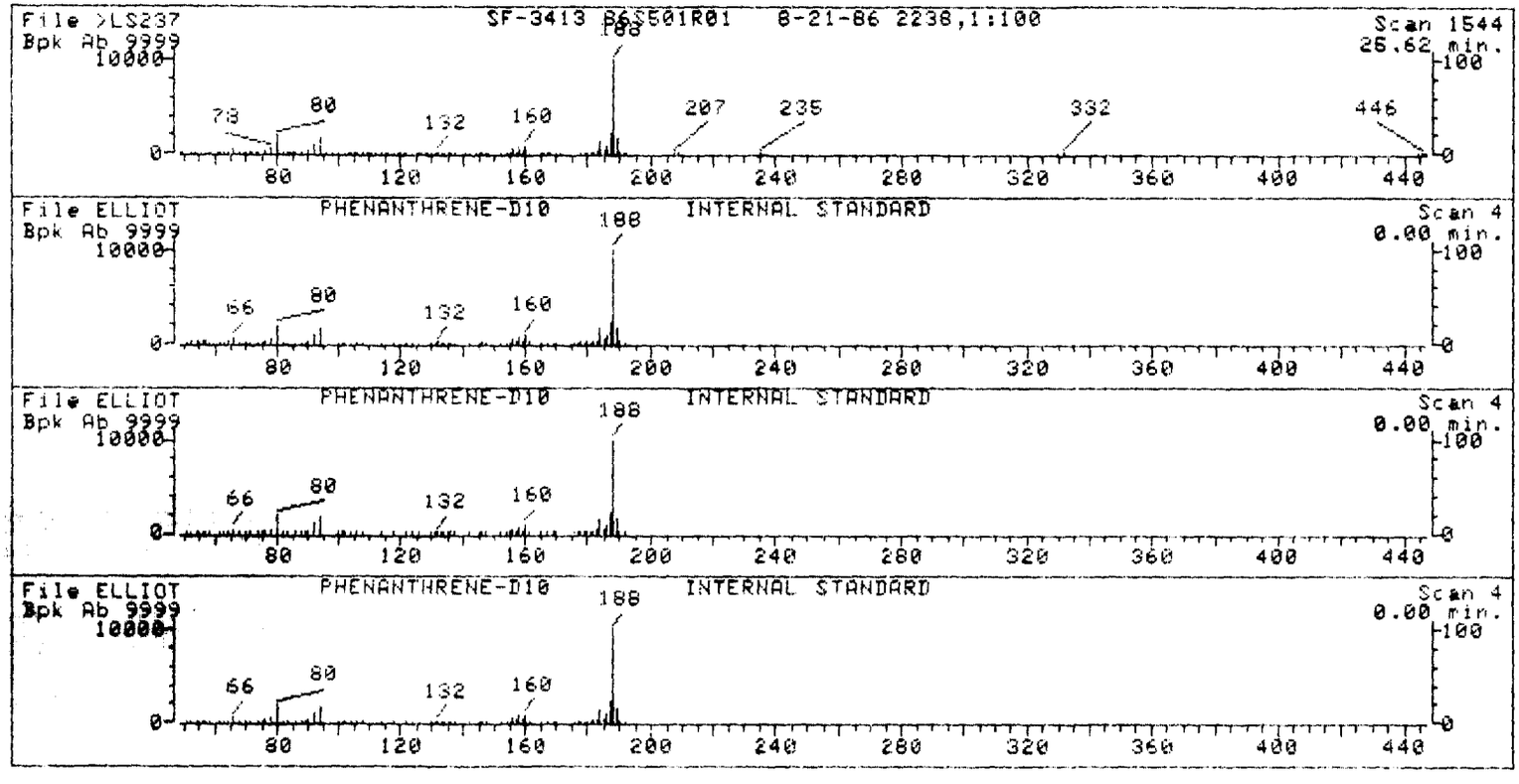
10000
0
100
0
80 106 122 160 198 212 244 281 331 446
80 120 160 200 240 280 320 360 400 440
File BENNET
D14-TERPHENYL SURROGATE STANDARD
Scan 6
0.00 min.
Bpk Ab 9999
10000
80 106 122 160 198 212 244 247
File BENNET
D14-TERPHENYL SURROGATE STANDARD
Scan 8
0.00 min.
Bpk Ab 9999
10000
57 106 122 160 198 212 244 246
File BENNET
D14-TERPHENYL SURROGATE STANDARD
Scan 7
0.00 min.
Bpk Ab 9999
10000
57 86 122 160 198 212 244 247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Scan 1544
25.62 min.
100
0
78
80
132
160
188
207
235
332
446
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
66
80
132
160
188
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
0.00 min.
100
0
66
80
132
160
188
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
PHENANTHRENE-D10
INTERNAL STANDARD
Scan 4
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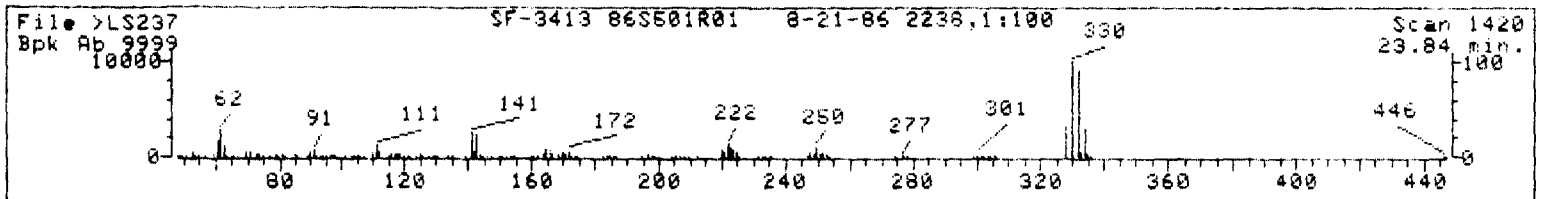
80
132
160
188
80 120 160 200 240 280 320 360 400 440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Scan 1420
23.84 min.
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10000
62
91
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277
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200
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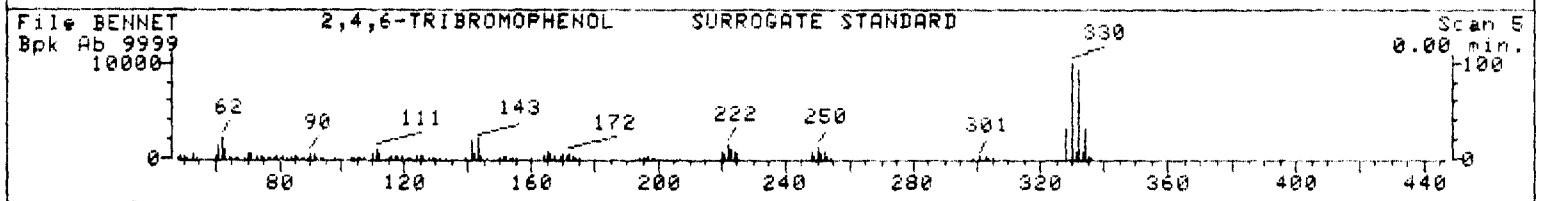
280
320
360
400
440
100


File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
Bpk Ab 9999
10000
62
90
111
143
172
222
250
301
330
0
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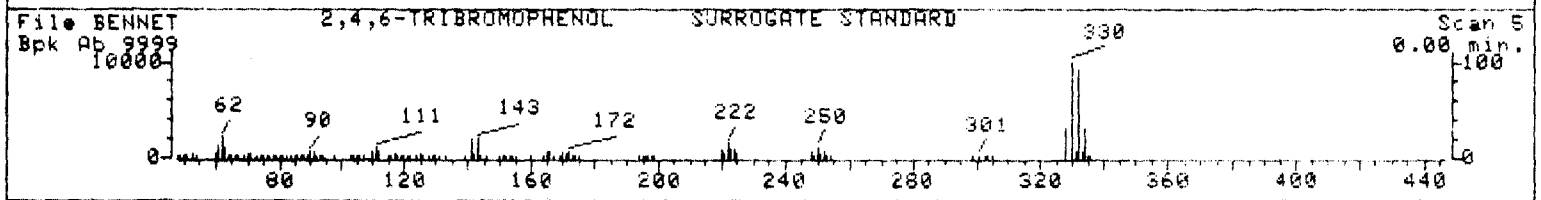
200
240
280
320
360
400
440
100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2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
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10000
62
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111
143
172
222
250
301
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200
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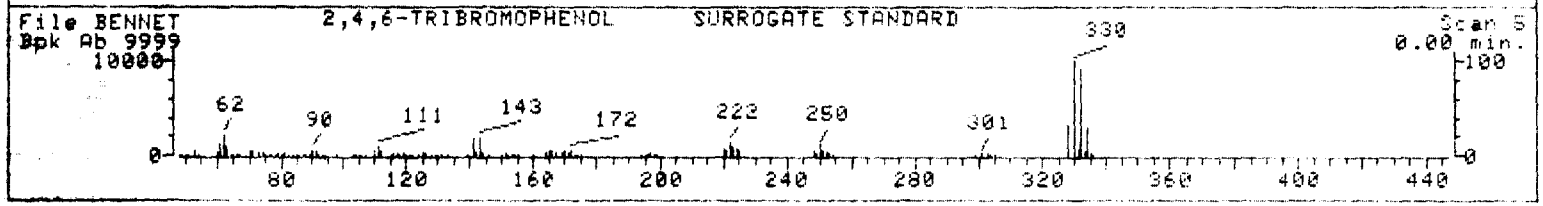
360
400
440
100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2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
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400
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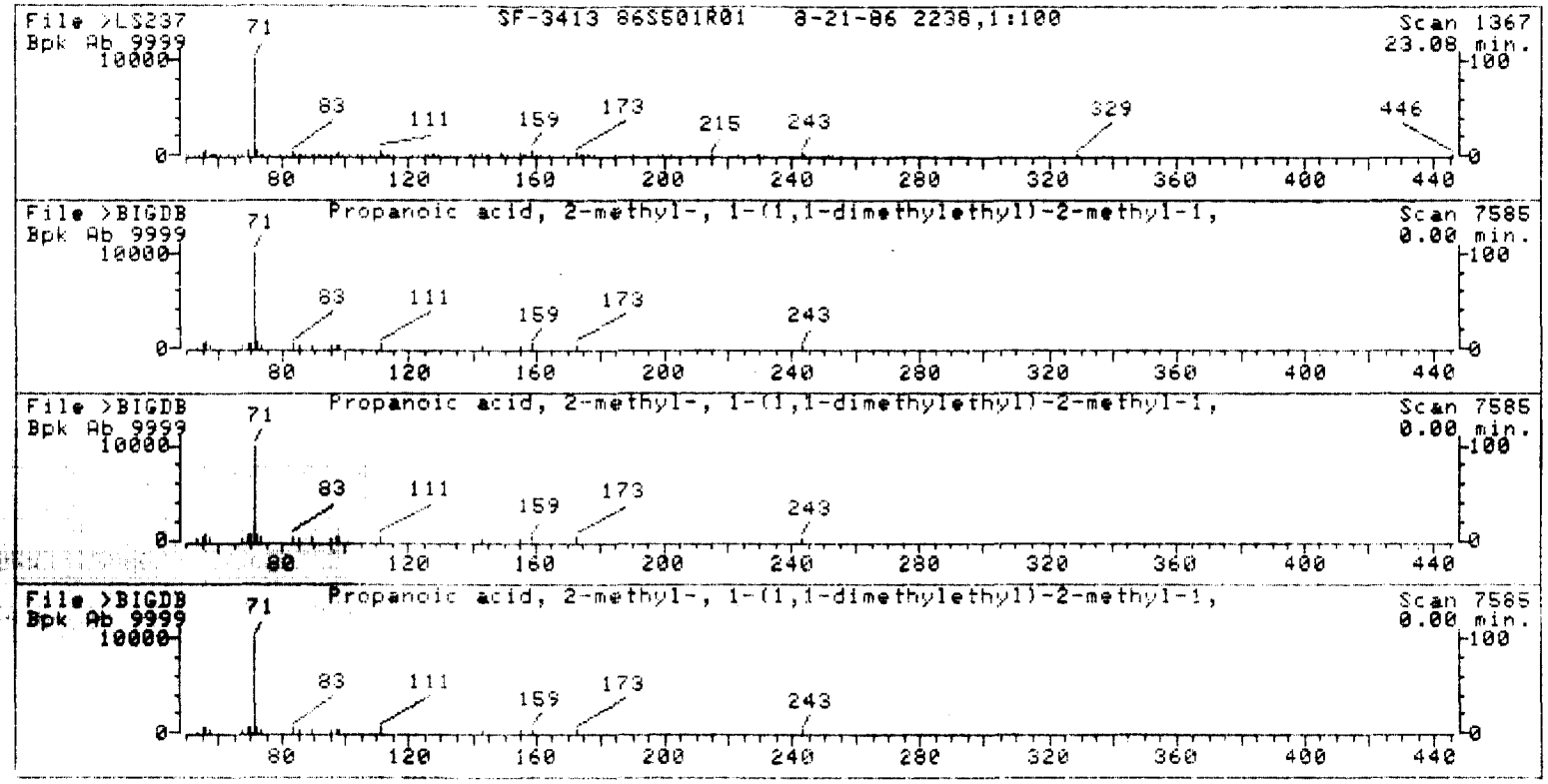
100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SF-3413 86S501R01 8-21-86 2238,1:100
Scan 1367
23.08 min.
100
0
71
83
111
159
173
215
243
329
446
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
83
111
159
173
243
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
83
111
159
173
243
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
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71
83
111
159
173
243
80
120
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200
240
280
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400
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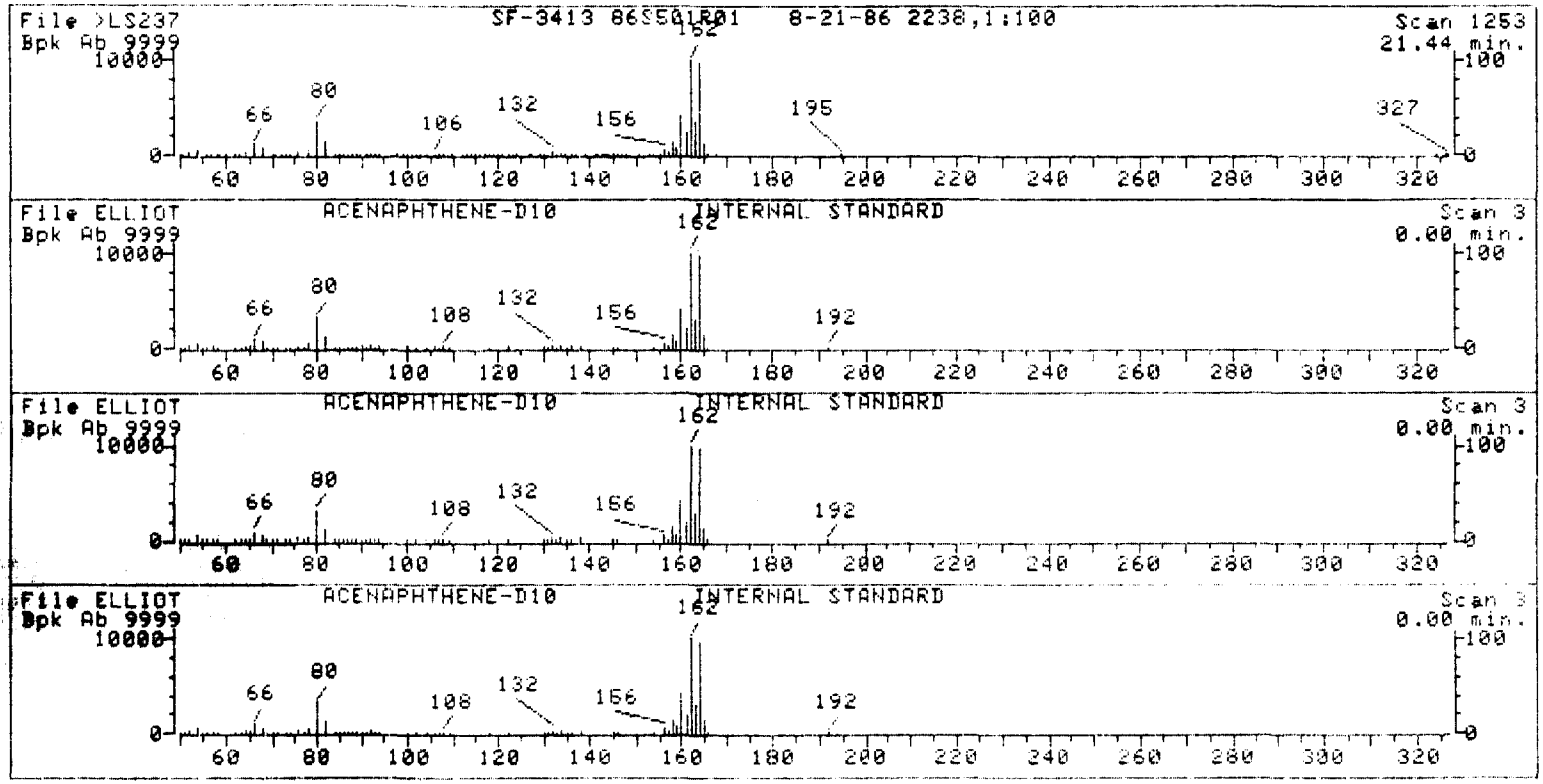
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Scan 1253
21.44 min.
162
80
66
106
132
156
195
327
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
162
80
66
108
132
156
192
File ELLIOT
Bpk Ab 9999
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
162
80
66
108
132
156
192
File ELLIOT
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ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
162
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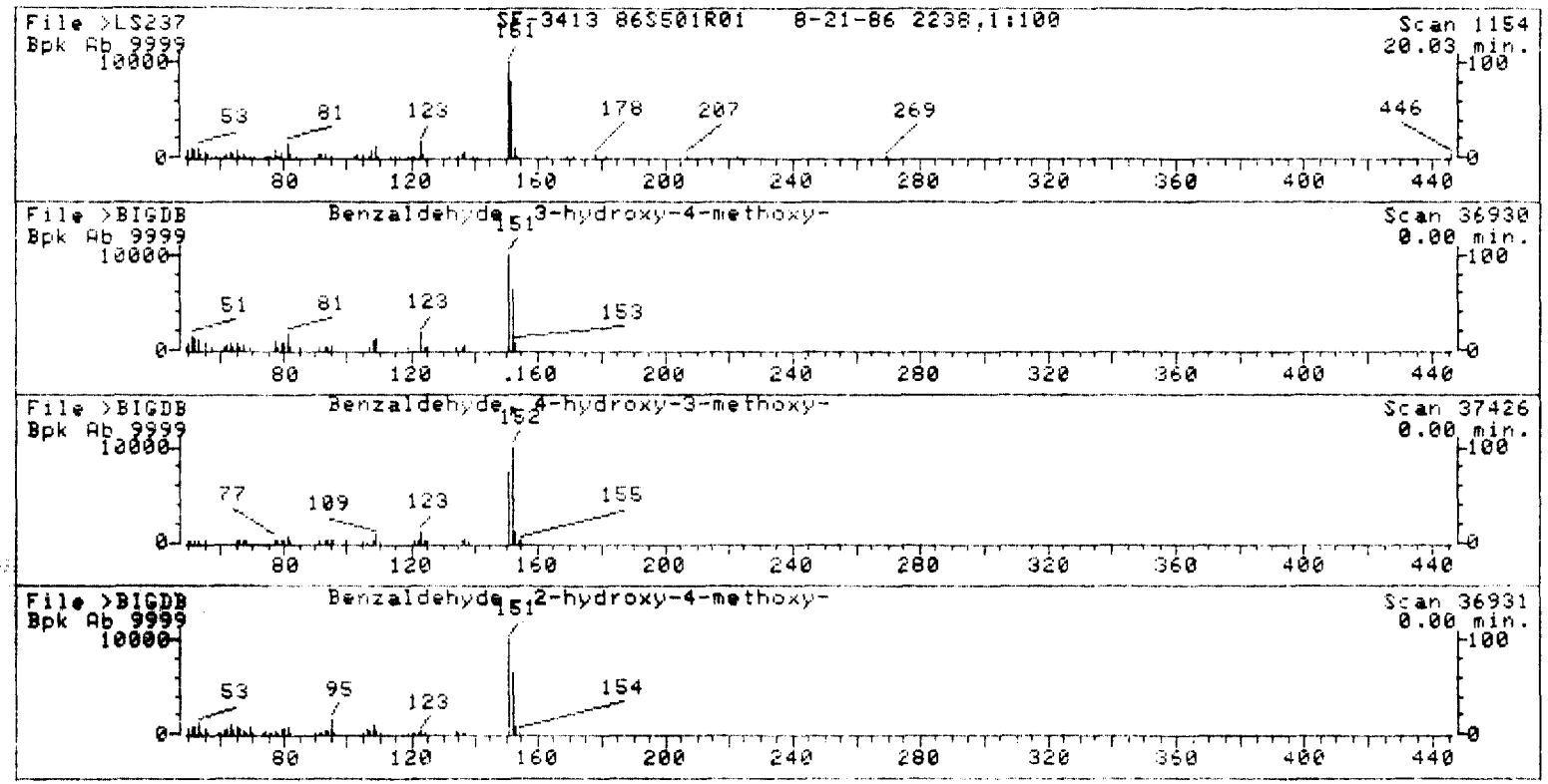
132
156
192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53
81
123
178
207
269
446
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
Benzaldehyde, 3-hydroxy-4-methoxy-
Scan 36930
0.00 min.
100
0
151
51
81
123
153
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
Benzaldehyde, 4-hydroxy-3-methoxy-
Scan 37426
0.00 min.
100
0
152
77
109
123
155
80
120
160
200
240
280
320
360
400
440
File >BIGDB
Bpk Ab 9999
10000
Benzaldehyde, 2-hydroxy-4-methoxy-
Scan 36931
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0
151
53
95
123
154
80
120
160
200
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400
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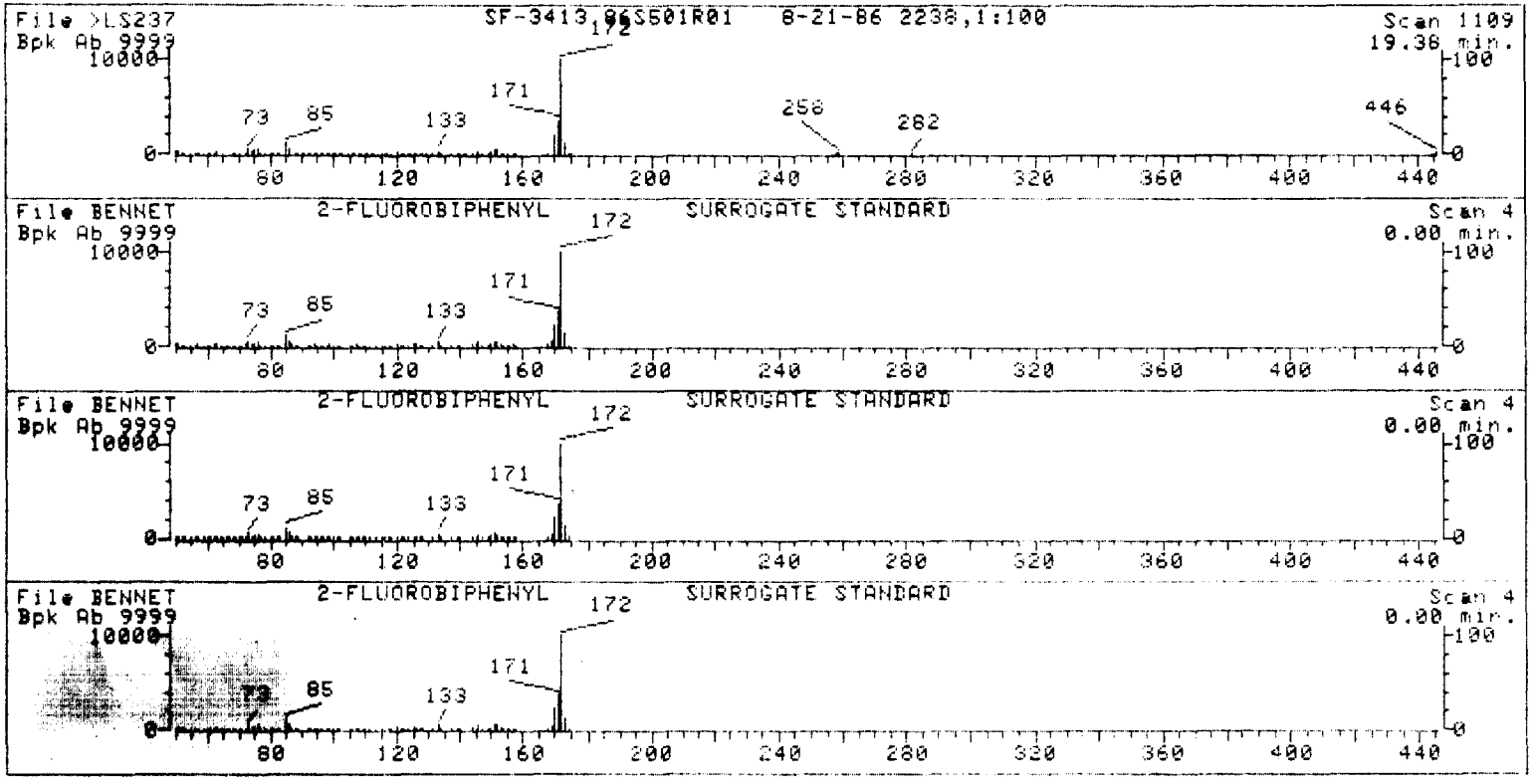
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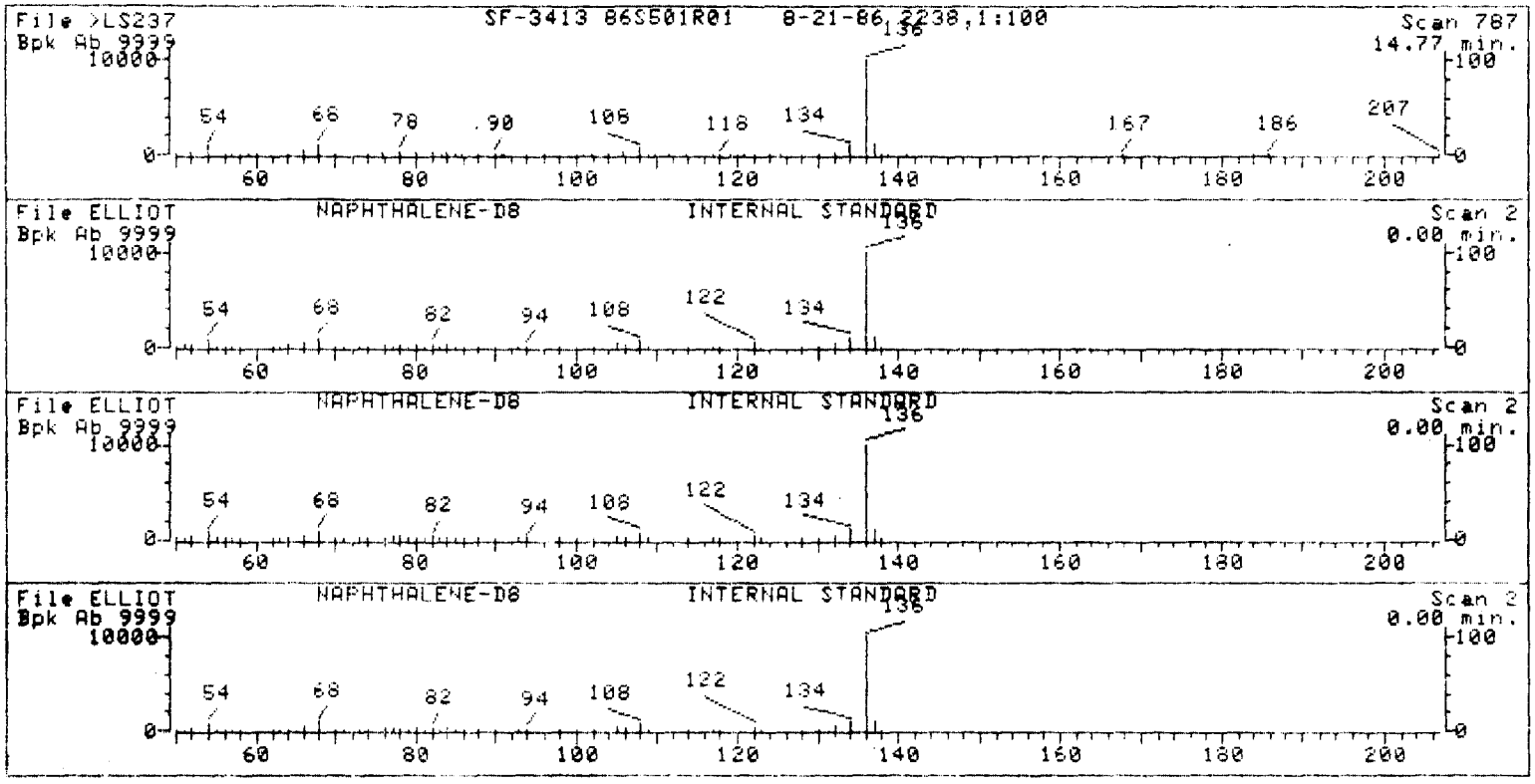
Scan 1109
19.36 min.
172
171
73
85
133
258
282
446
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.
File BENNET
2-FLUOROBIPHENYL
SURROGATE STANDARD
Scan 4
0.00 min.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14.77 min.
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60 80 100 120 140 160 180 200
100
0
File ELLIOT
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
Bpk Ab 9999
10000
0
54 68 82 94 108 122 134 136
60 80 100 120 140 160 180 200
100
0
File ELLIOT
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
Bpk Ab 9999
10000
0
54 68 82 94 108 122 134 136
60 80 100 120 140 160 180 200
100
0
File ELLIOT
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
Bpk Ab 9999
10000
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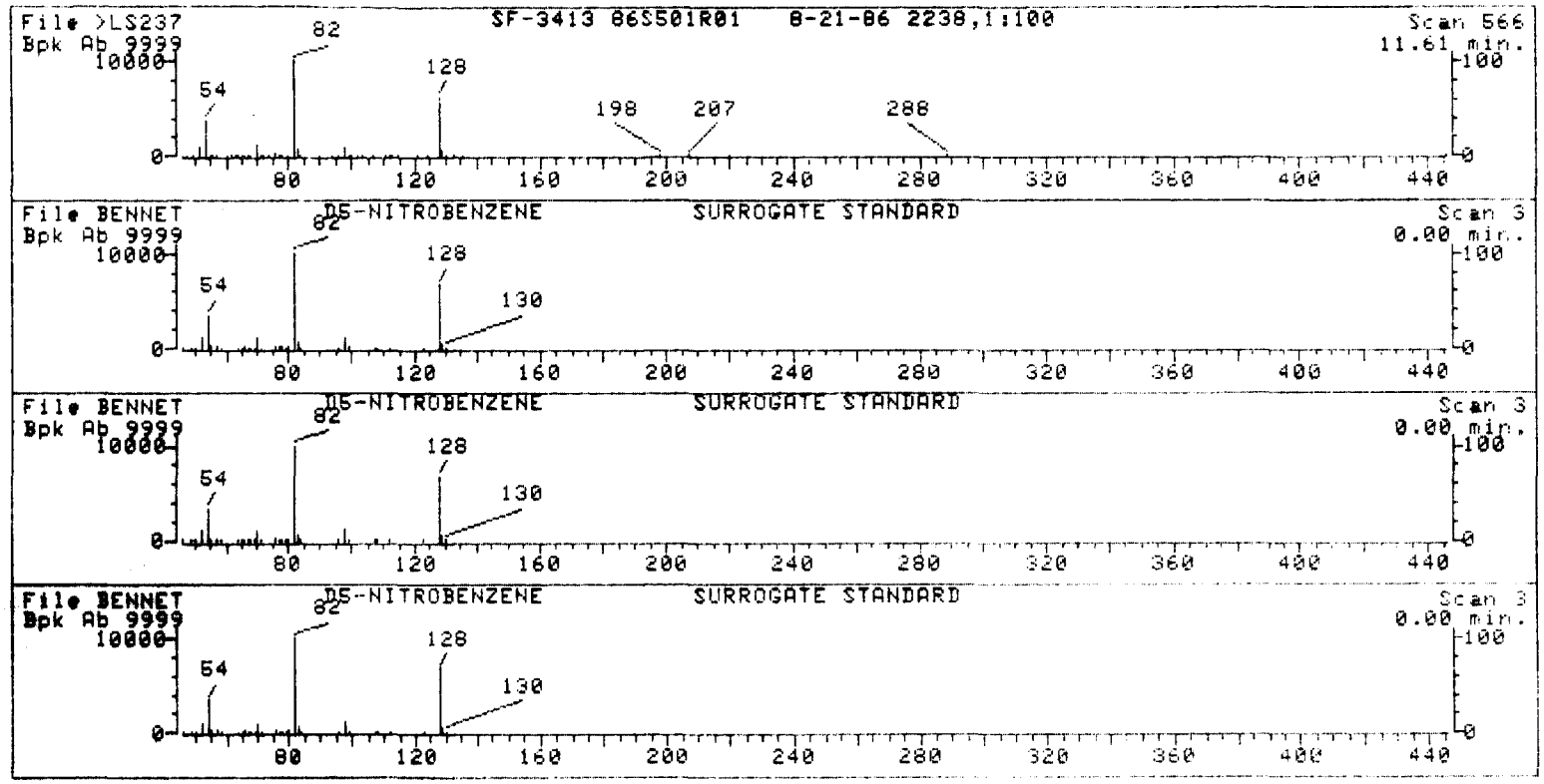
54 68 82 94 108 122 134 136
60 80 100 120 140 160 180 200
100
0


File >LS237
Bpk Ab 9999
SF-3413 86S501R01 8-21-86 2238,1:100
Scan 566
11.61 min.
82
128
54
198
207
288
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
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128
54
130
10000
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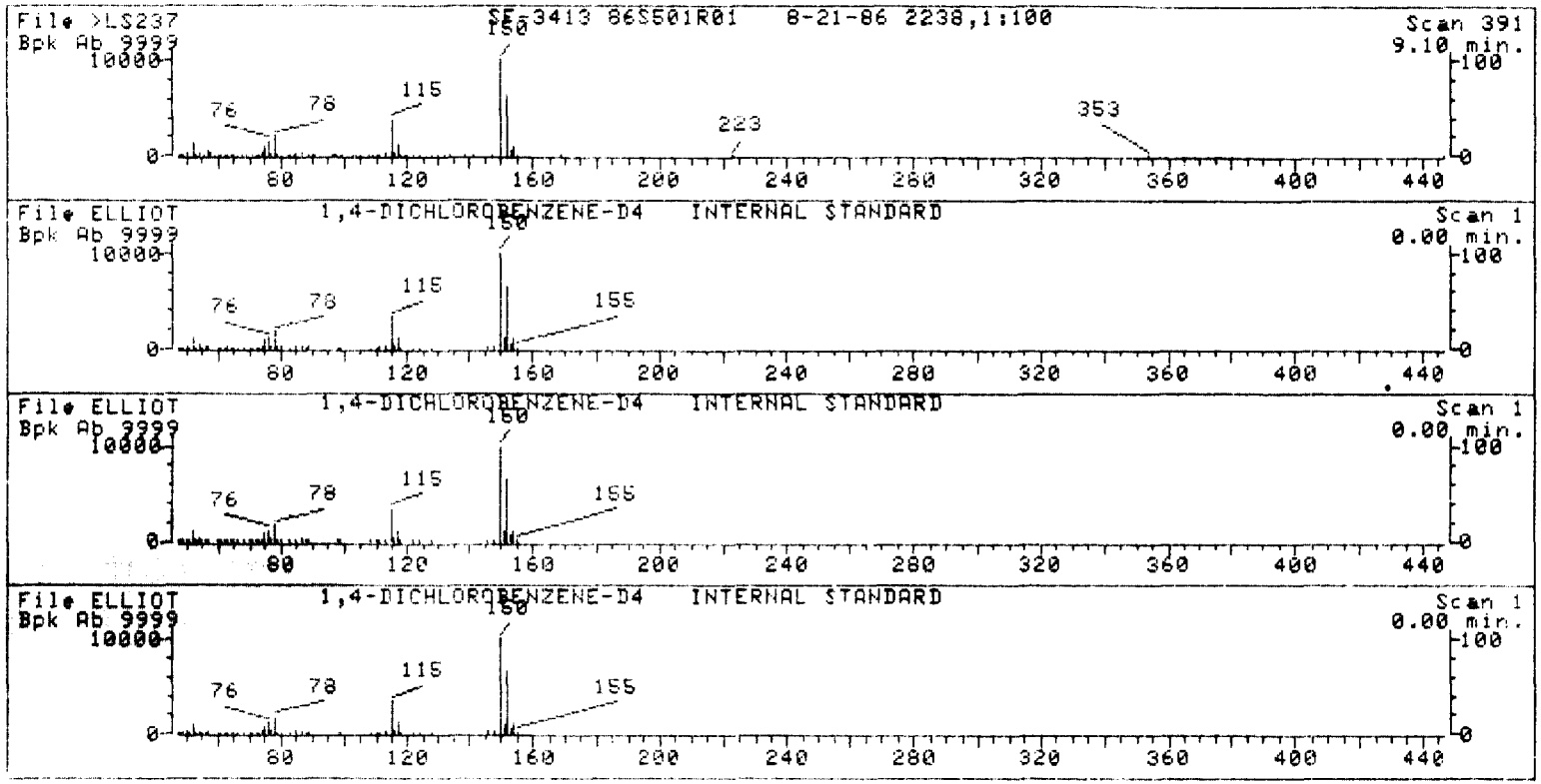
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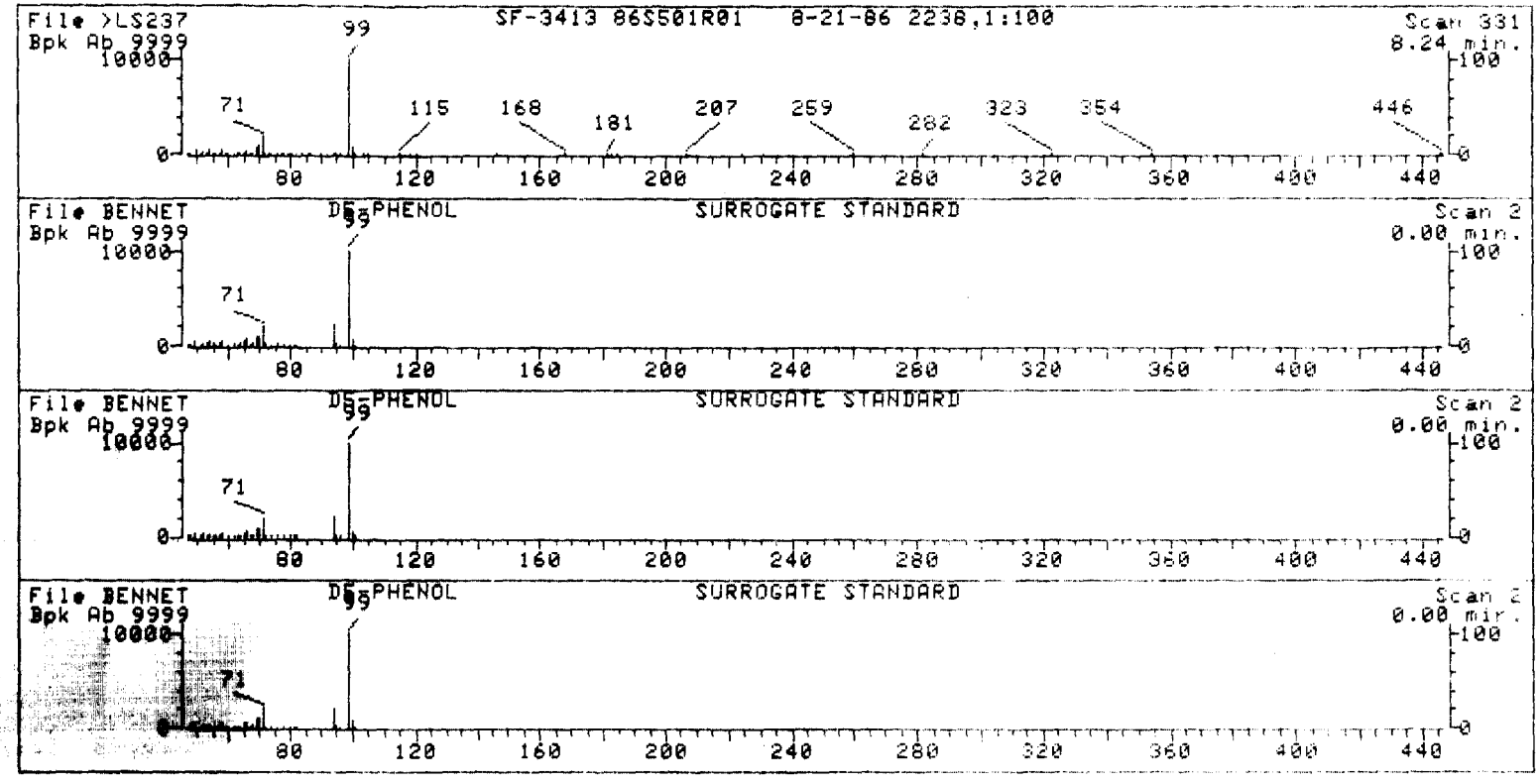
SE-3413 86S501R01 8-21-86 2238,1:100
Scan 391
9.10 min.
100
0
76
78
115
150
223
353
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440


File >LS237
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SF-3413 86S501R01 8-21-86 2238,1:100
Scan 331
8.24 min.
100
0
99
71
115
168
181
207
259
282
323
354
446
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
100
0
99
71
80
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160
200
240
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320
360
400
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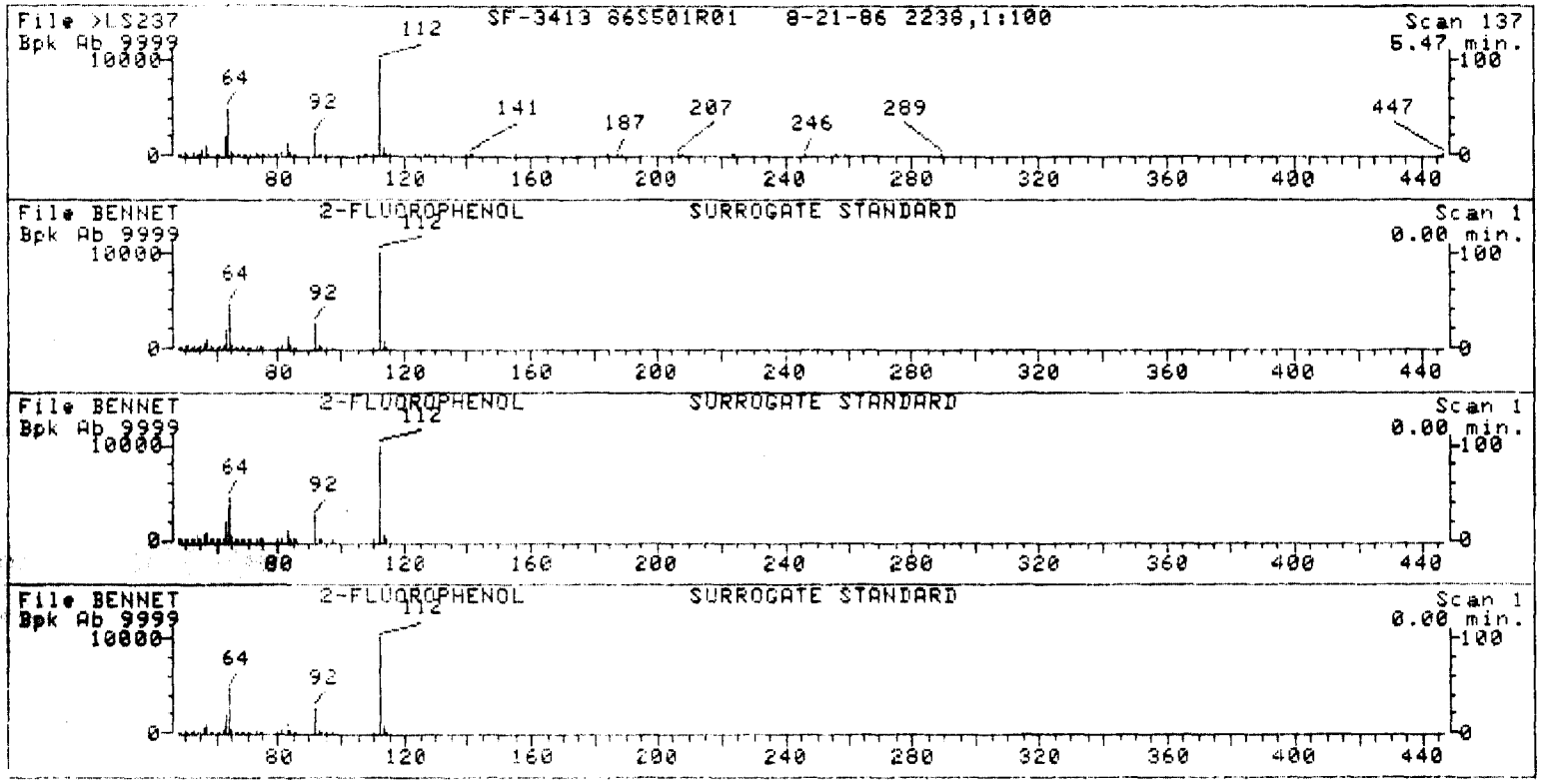
File >LS237
Bpk Ab 9999
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0
SF-3413 86S501R01 8-21-86 2238,1:100
Scan 137
5.47 min.
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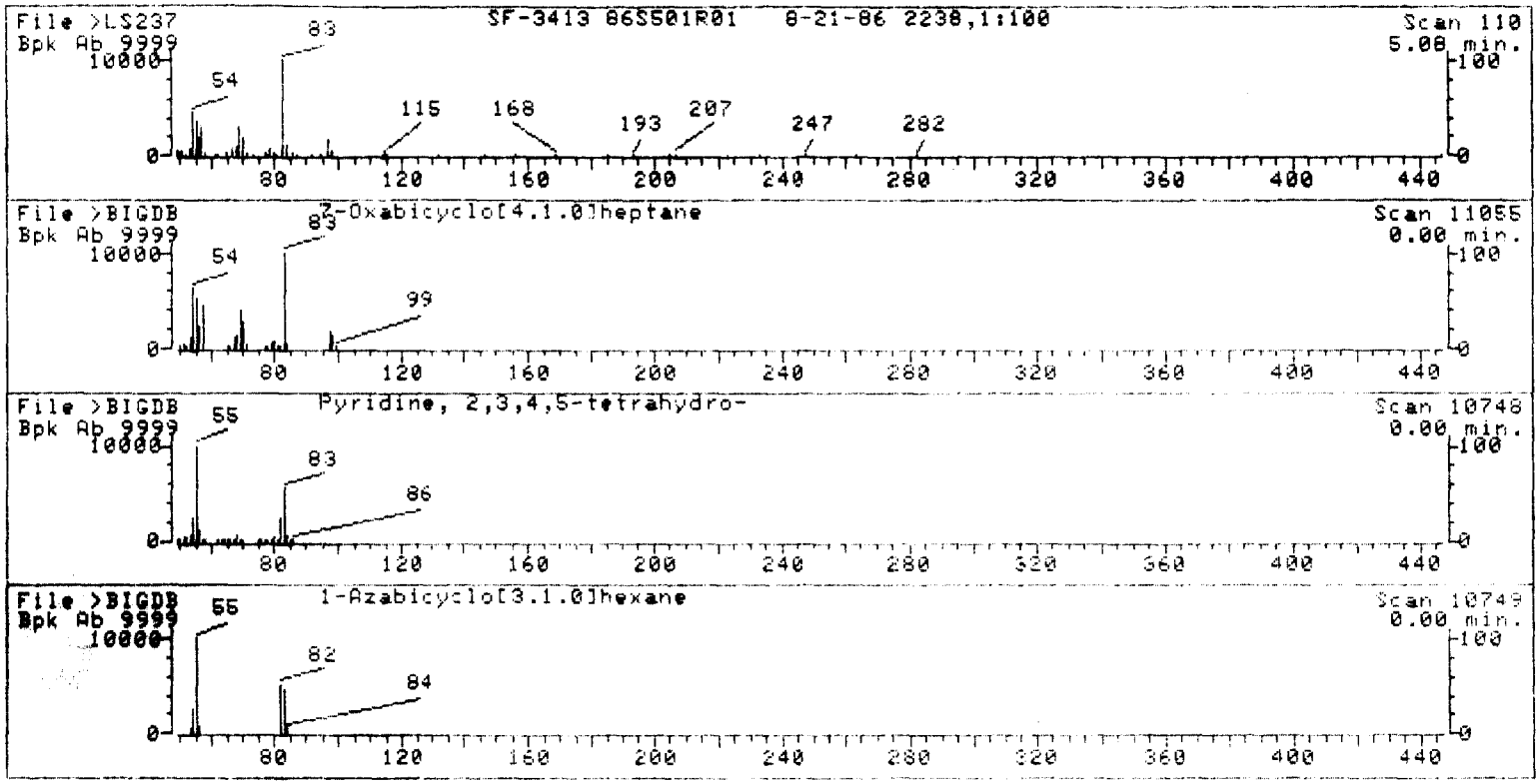
0
64
92
112
141
187
207
246
289
447
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320
360
400
440


File >LS237
Bpk Ab 9999
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SF-3413 86S501R01 8-21-86 2238,1:100
Scan 110
5.08 min.
83
54
115
168
193
207
247
282
File >BIGDB
Bpk Ab 9999
10000
2-Oxabicyclo[4.1.0]heptane
Scan 11055
0.00 min.
83
54
99
File >BIGDB
Bpk Ab 9999
10000
Pyridine, 2,3,4,5-tetrahydro-
Scan 10748
0.00 min.
55
83
86
File >BIGDB
Bpk Ab 9999
10000
1-Azabicyclo[3.1.0]hexane
Scan 10749
0.00 min.
55
82
84
0
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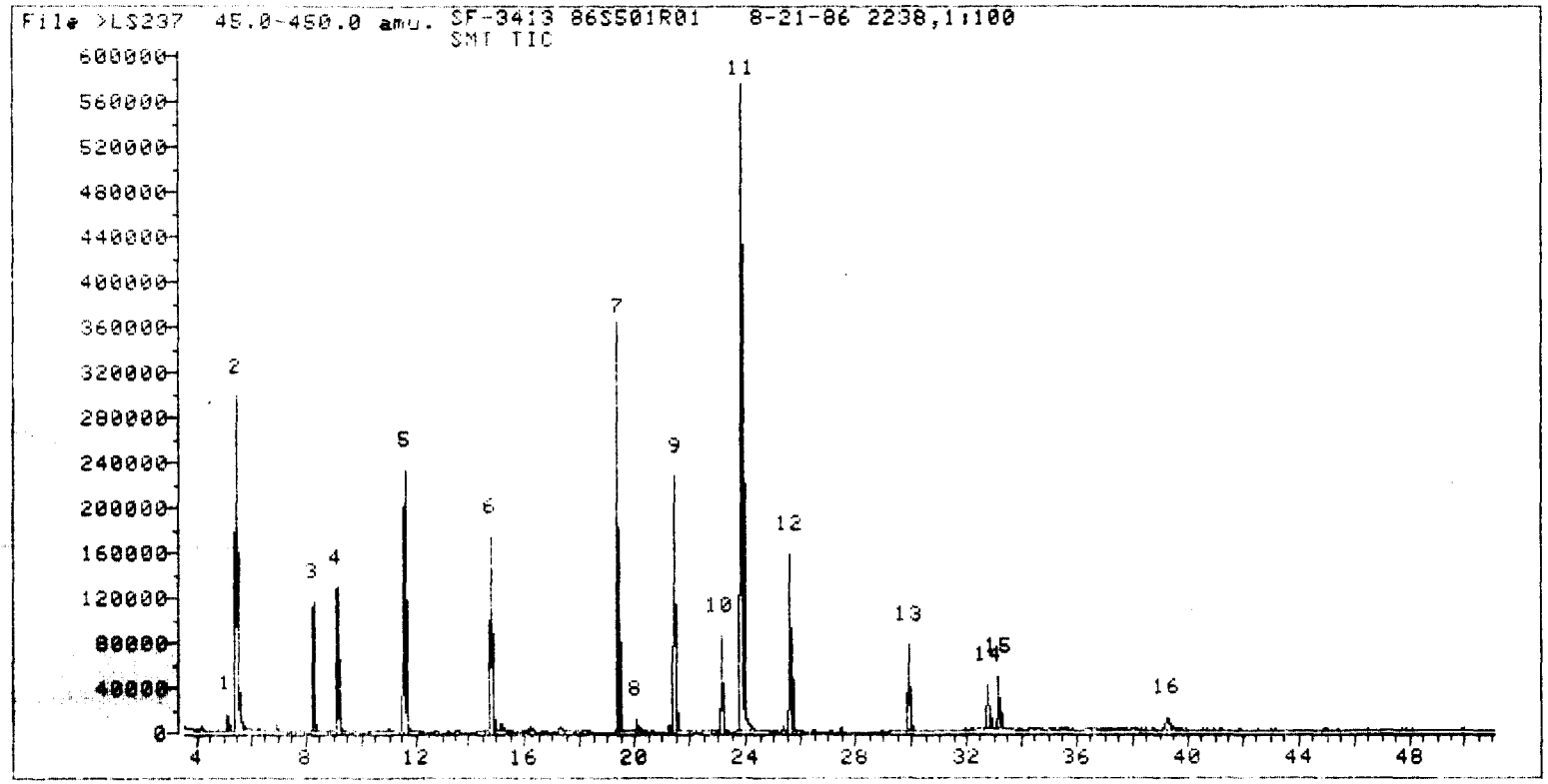
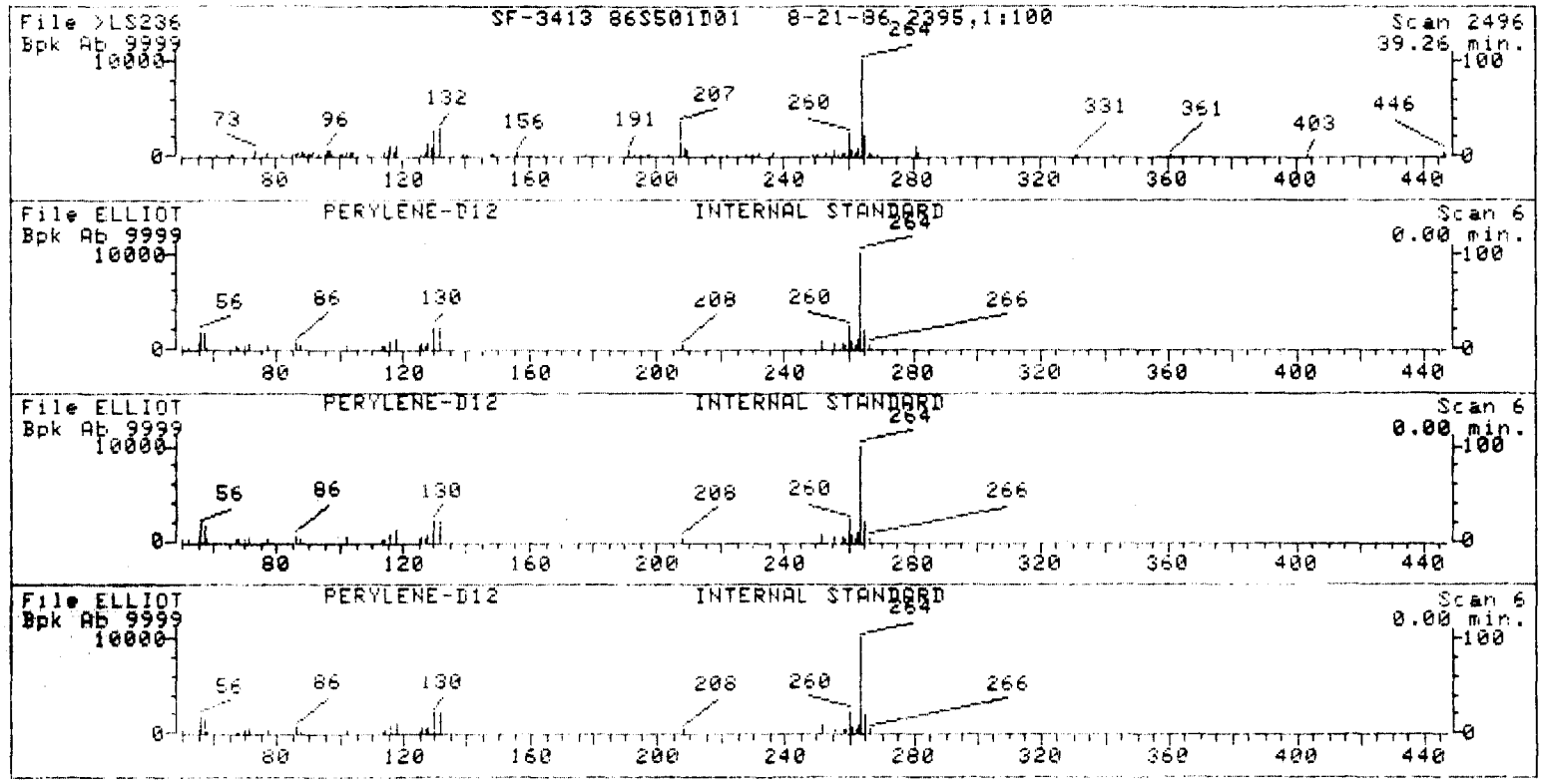
80
120
160
200
240
280
320
360
400
440


File >LS237 45.0-450.0 amu. SF-3413 86S501R01 8-21-86 2238,1:100
SMT TIC
600000
560000
520000
480000
440000
400000
360000
320000
280000
240000
200000
160000
120000
80000
40000
0
4
8
12
16
20
24
28
32
36
40
44
48
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

>LS237 SF-3413 86S501R01 8-21-86 2238.1:100
45.01 450.0 SMT TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.078	105	110	122	16185	98562	73670	2.76	.675
2	5.465	131	137	159	295506	1412254	1338889	50.24	12.273
3	8.243	325	331	352	115436	563812	536101	20.12	4.914
4	9.102	384	391	404	127802	538750	520128	19.52	4.768
5	11.608	552	566	572	231776	1165673	1147627	43.06	10.520
6	14.771	775	787	799	173012	772132	749993	28.14	6.875
7	19.381	1102	1109	1115	361986	1277032	1261666	47.34	11.565
8	20.026	1148	1154	1170	10807	71239	54385	2.04	.499
9	21.444	1246	1253	1267	226742	860405	836980	31.41	7.672
10	23.078	1362	1367	1381	85013	301228	286977	10.77	2.631
11	23.838	1410	1420	1458	573644	2742655	2664928	100.00	24.428
12	25.616	1536	1544	1559	158173	629128	612538	22.99	5.615
13	29.883	1836	1842	1856	76711	327262	303067	11.37	2.778
14	32.766	2035	2043	2055	39931	263392	209256	7.85	1.918
15	33.139	2062	2069	2084	47198	270881	208112	7.81	1.908
16	39.248	2483	2495	2515	10604	189484	105071	3.94	.963

Sum of corrected areas: 10909390.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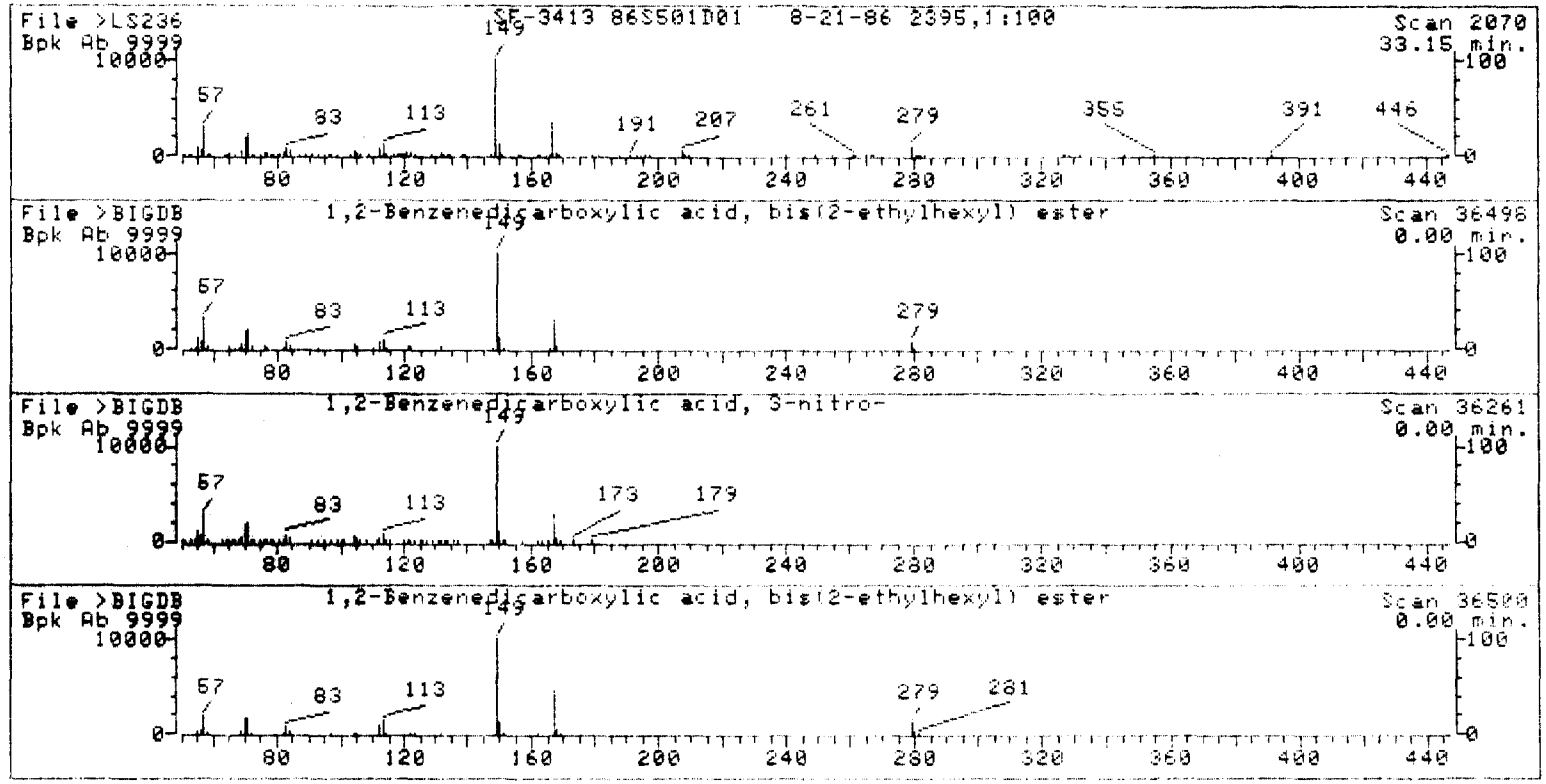
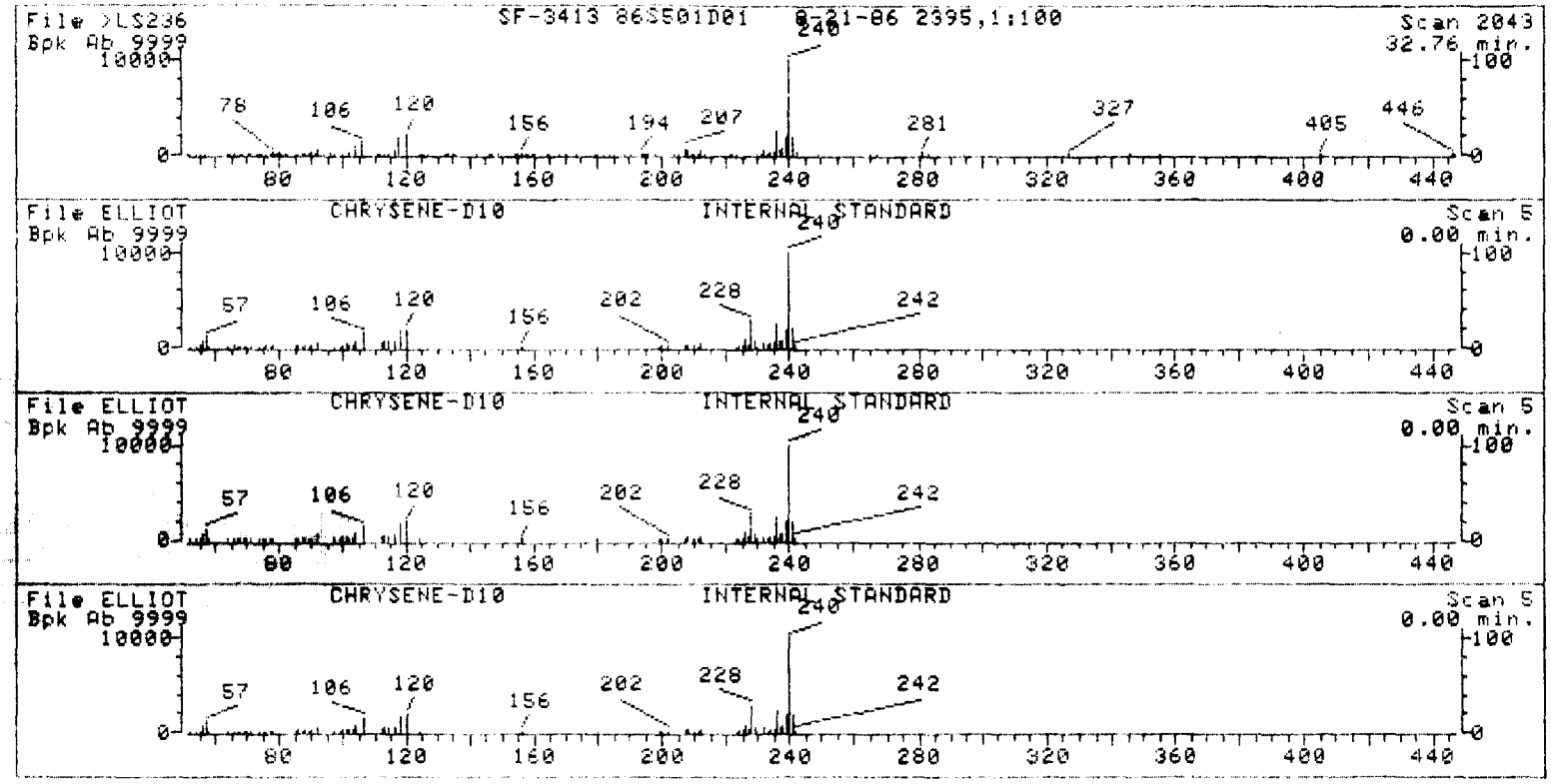
Scan 2496
39.26 min.
100
0
73 96 132 156 191 207 260 264 331 361 403 446
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
100
0
56 86 130 208 260 264 266
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
100
0
56 86 130 208 260 264 266
80 120 160 200 240 280 320 360 400 440
File ELLIOT
Bpk Ab 9999
10000
PERYLENE-D12
INTERNAL STANDARD
Scan 6
0.00 min.
100
0
56 86 130 208 260 264 266
80 120 160 200 240 280 320 360 400 440


File >LS236
Bpk Ab 9999
10000
SF-3413 86S501D01 8-21-86 2395,1:100
Scan 2070
33.15 min.
57
83
113
149
191
207
261
279
355
391
446
File >BIGDB
Bpk Ab 9999
10000
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36498
0.00 min.
57
83
113
149
279
File >BIGDB
Bpk Ab 9999
10000
1,2-Benzenedicarboxylic acid, 3-nitro-
Scan 36261
0.00 min.
57
83
113
149
173
179
File >BIGDB
Bpk Ab 9999
10000
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
Scan 36500
0.00 min.
57
83
113
149
279
281
0
80
120
160
200
240
280
320
360
400
440
100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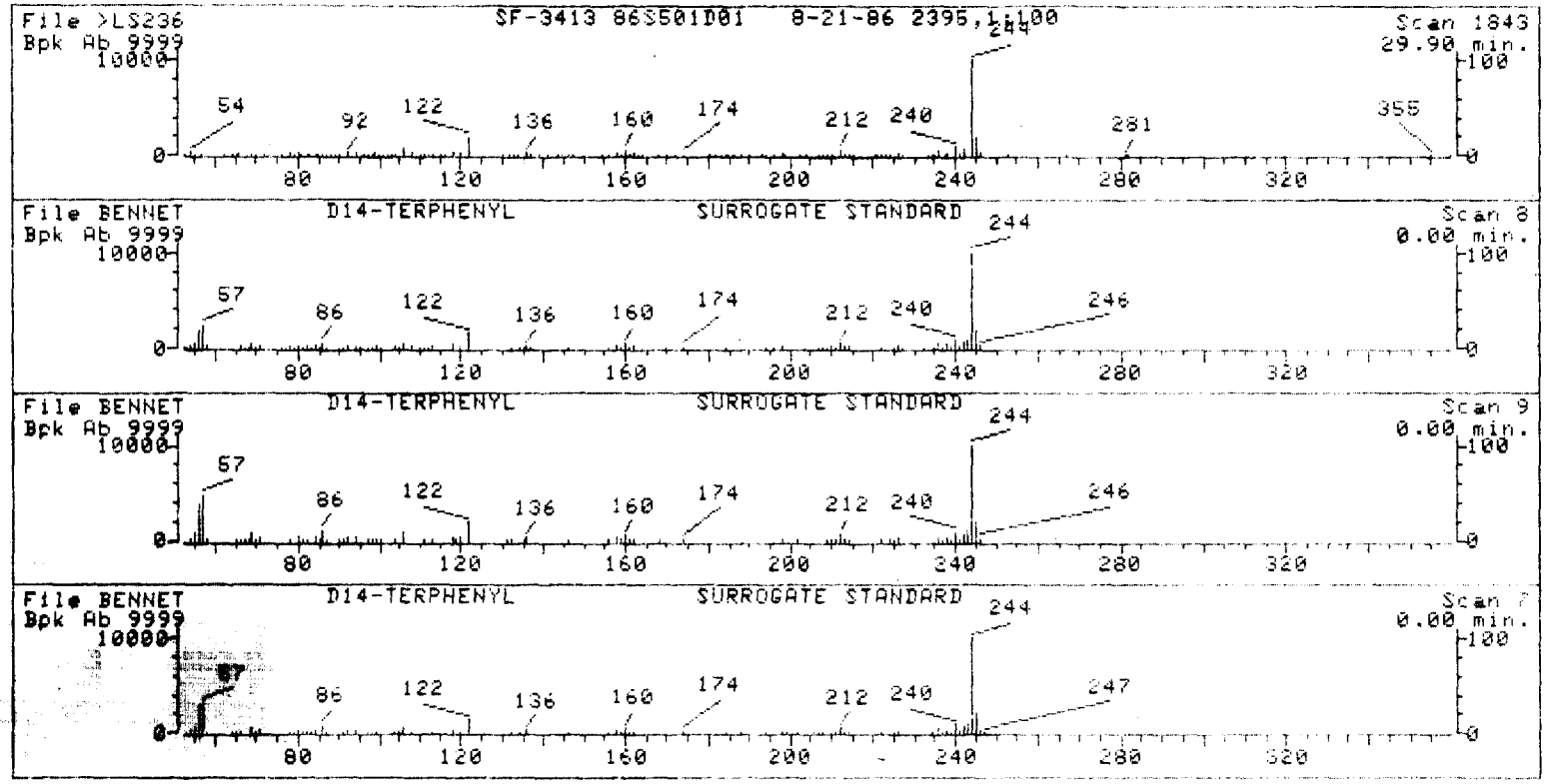
Bpk Ab 9999
SF-3413 86S501D01 9-21-86 2395,1:100
Scan 2043
32.76 min.
240
78 106 120 156 194 207 281 327 405 446
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57 106 120 156 202 228 242
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57 106 120 156 202 228 242
File ELLIOT
Bpk Ab 9999
CHRYSENE-D10
INTERNAL STANDARD
Scan 5
0.00 min.
240
57 106 120 156 202 228 242
10000
0
100
80 120 160 200 240 280 320 360 400 440


File >LS236
Bpk Ab 9999
SF-3413 86S501D01 8-21-86 2395,1:100
Scan 1843
29.90 min.
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File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 8
0.00 min.
57 86 122 136 160 174 212 240 244 246
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 9
0.00 min.
57 86 122 136 160 174 212 240 244 246
File BENNET
Bpk Ab 9999
D14-TERPHENYL SURROGATE STANDARD
Scan 7
0.00 min.
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10000
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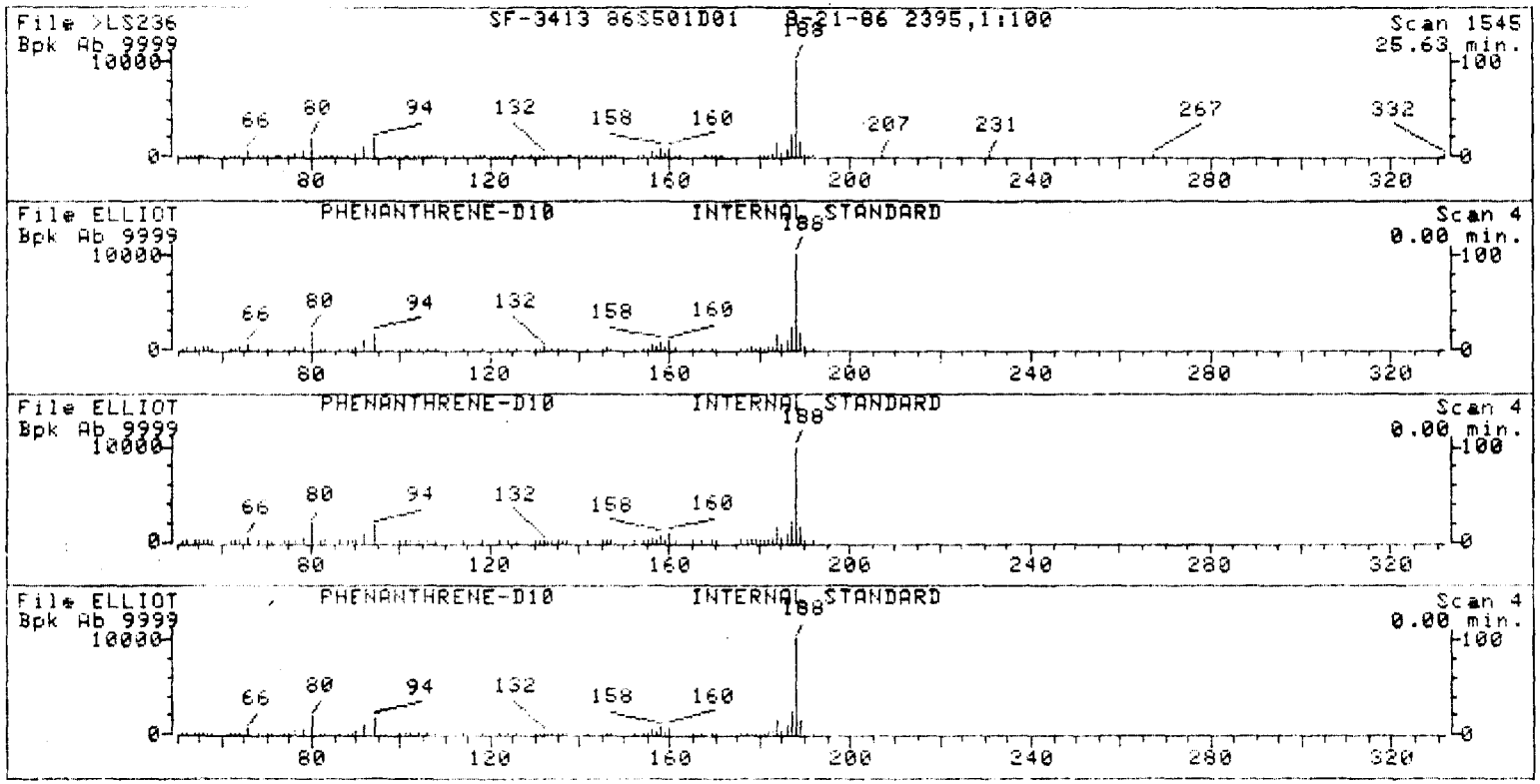
80 120 160 200 240 280 320
100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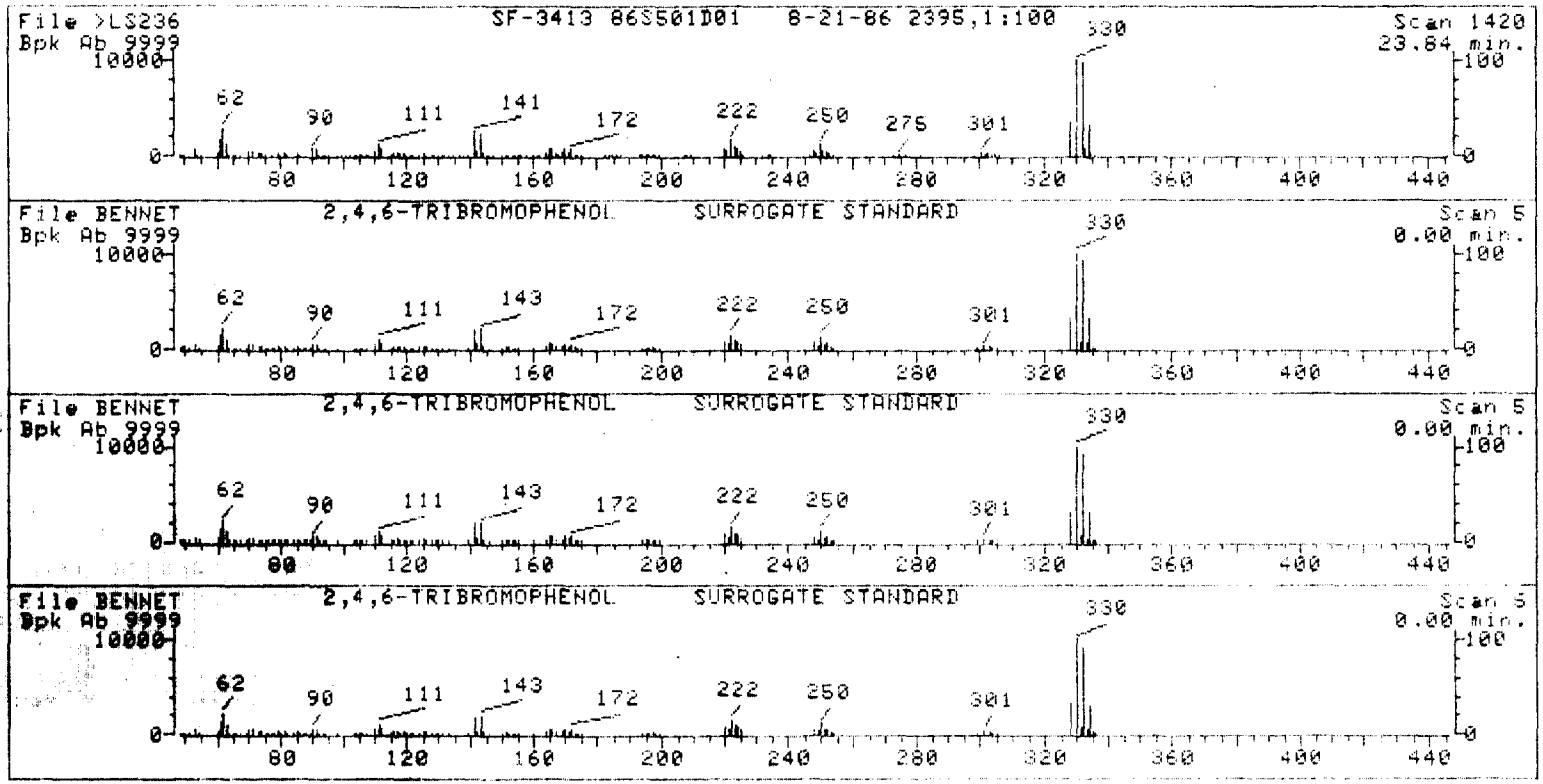
SF-3413 86S501D01 8-21-86 2395,1:100
Scan 1545
25.63 min.
188
66 80 94 132 158 160 207 231 267 332
File ELLIOT
PHENANTHRENE-D10 INTERNAL STANDARD
Scan 4
0.00 min.
188
66 80 94 132 158 160
File ELLIOT
PHENANTHRENE-D10 INTERNAL STANDARD
Scan 4
0.00 min.
188
66 80 94 132 158 160
File ELLIOT
PHENANTHRENE-D10 INTERNAL STANDARD
Scan 4
0.00 min.
188
66 80 94 132 158 160
10000
0
100
80 120 160 200 240 280 320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SF-3413 86S501D01 8-21-86 2395,1:100
Scan 1420
23.84 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
File BENNET
2,4,6-TRIBROMOPHENOL SURROGATE STANDARD
Scan 5
0.00 min.
10000
0
100
62
90
111
141
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172
222
250
275
301
330
80
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160
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320
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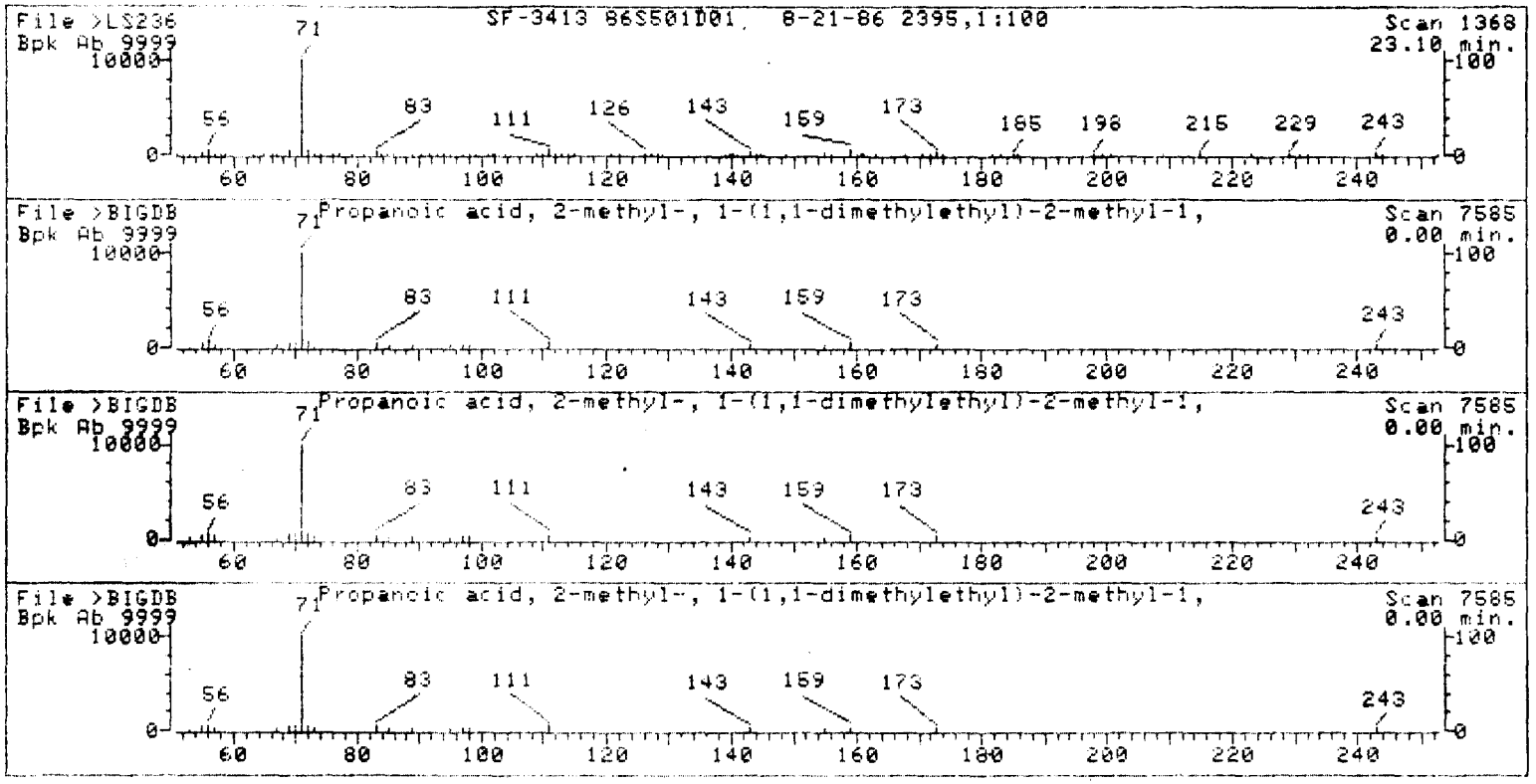
400
440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Bpk Ab 9999
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SF-3413 86S501D01, 8-21-86 2395,1:100
Scan 1368
23.10 min.
100
0
71
56
83
111
126
143
159
173
185
198
215
229
243
60
80
100
120
140
160
180
200
220
240
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
56
83
111
143
159
173
243
60
80
100
120
140
160
180
200
220
240
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
100
0
71
56
83
111
143
159
173
243
60
80
100
120
140
160
180
200
220
240
File >BIGDB
Bpk Ab 9999
10000
0
Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,
Scan 7585
0.00 min.
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71
56
83
111
143
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173
243
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200
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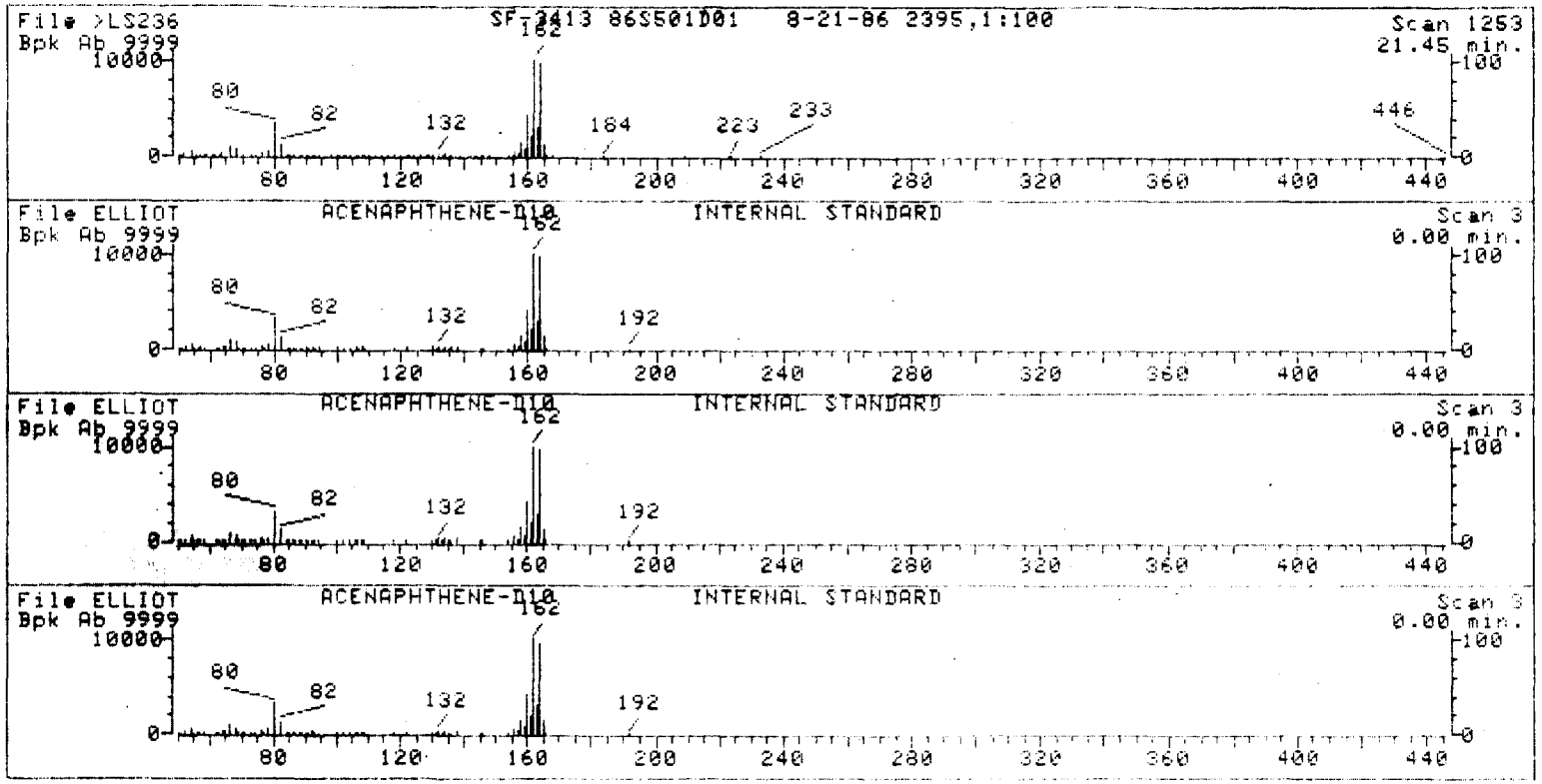
240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SF-2413 86S501D01 8-21-86 2395,1:100
Scan 1253
21.45 min.
162
80
82
132
184
223
233
446
File ELLIOT
ACENAPHTHENE-D10
INTERNAL STANDARD
Scan 3
0.00 min.
192
10000
100
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160
200
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320
360
400
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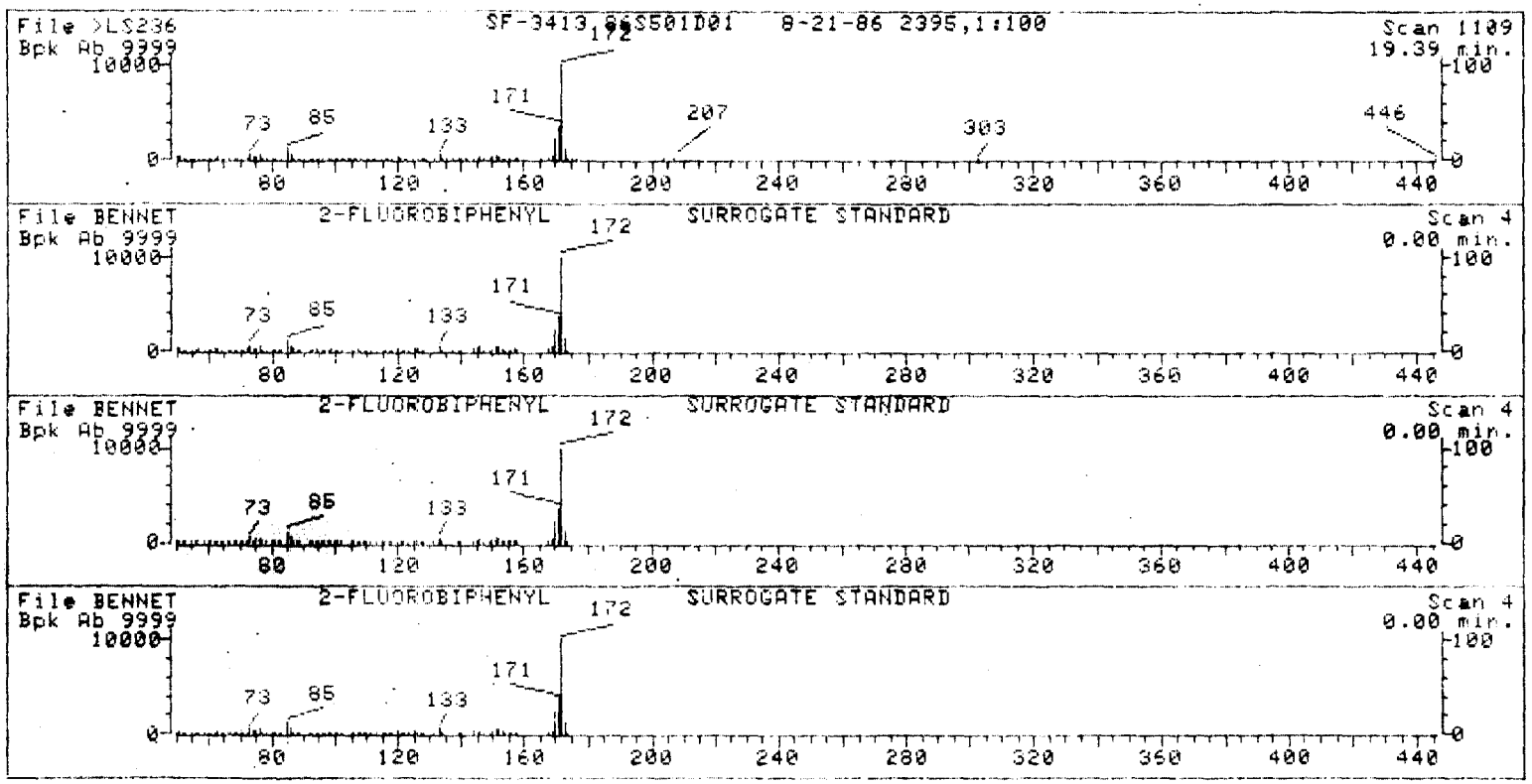
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Scan 1109
19.39 min.
172
171
207
303
446
73
85
133
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
0.00 min.
172
171
73
85
133
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
0.00 min.
172
171
73
85
133
File BENNET
2-FLUOROBIPHENYL SURROGATE STANDARD
Scan 4
0.00 min.
172
171
73
85
133
10000
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400
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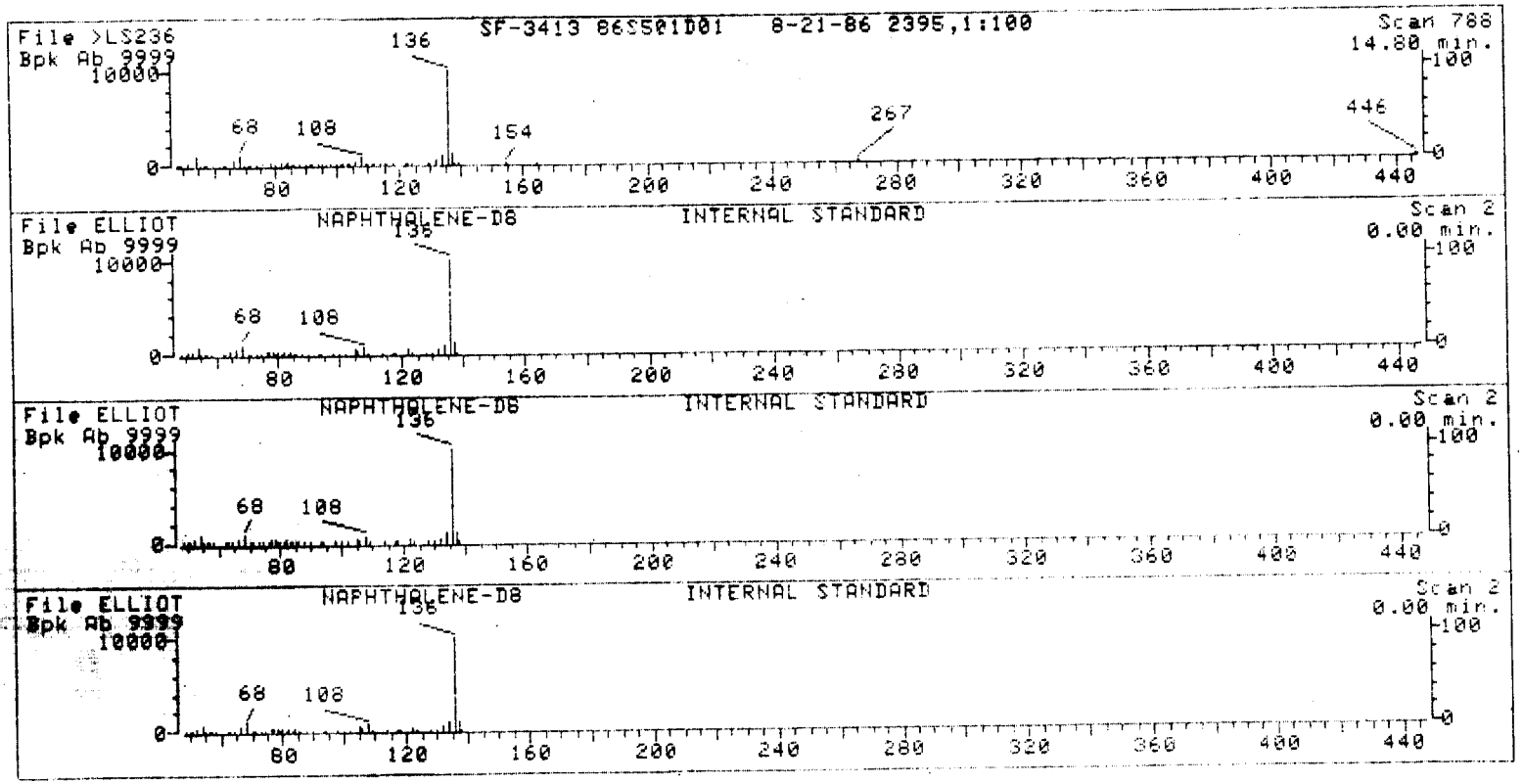
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Scan 788
14.80 min.
100
0
136
68
108
154
267
446
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
100
0
135
68
108
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
0.00 min.
100
0
135
68
108
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
NAPHTHALENE-D8
INTERNAL STANDARD
Scan 2
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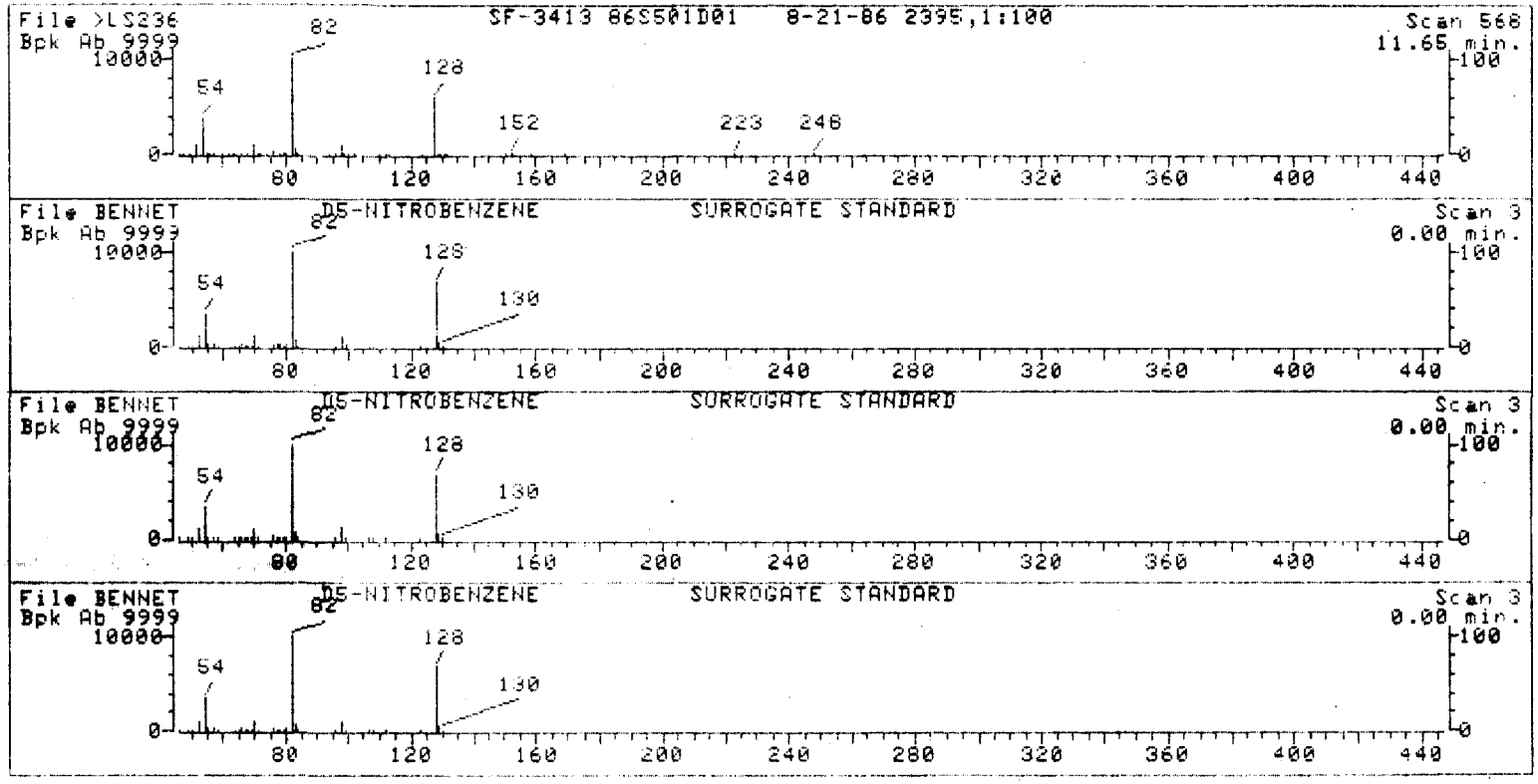
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SF-3413 86S501D01 8-21-86 2395,1:100
Scan 568
11.65 min.
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128
54
152
223
246
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
0.00 min.
82
128
54
130
File BENNET
Bpk Ab 9999
D5-NITROBENZENE
SURROGATE STANDARD
Scan 3
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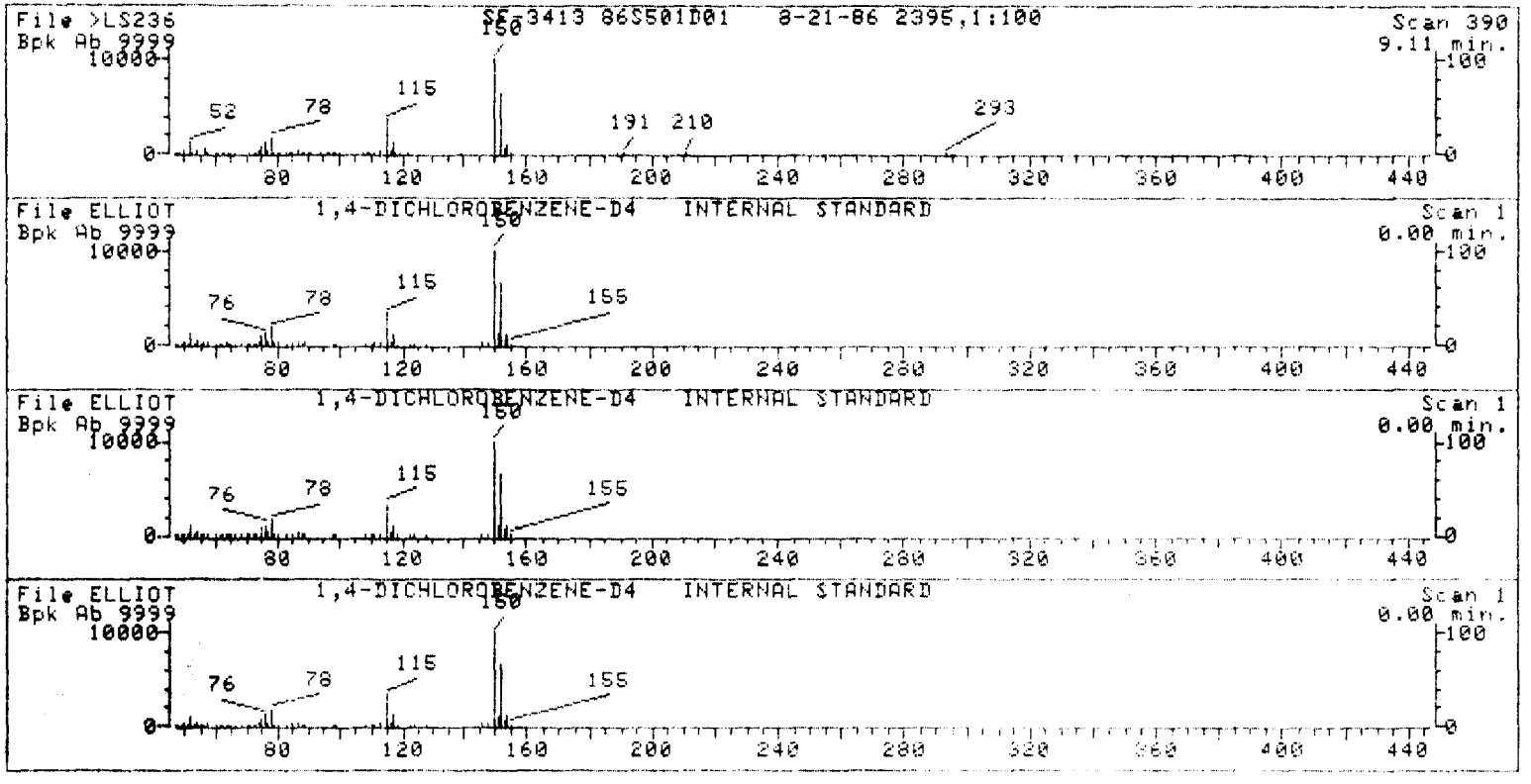
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52
78
115
150
191
210
293
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
Scan 1
0.00 min.
100
0
76
78
115
150
155
80
120
160
200
240
280
320
360
400
440
File ELLIOT
Bpk Ab 9999
10000
0
1,4-DICHLOROBENZENE-D4 INTERNAL STANDARD
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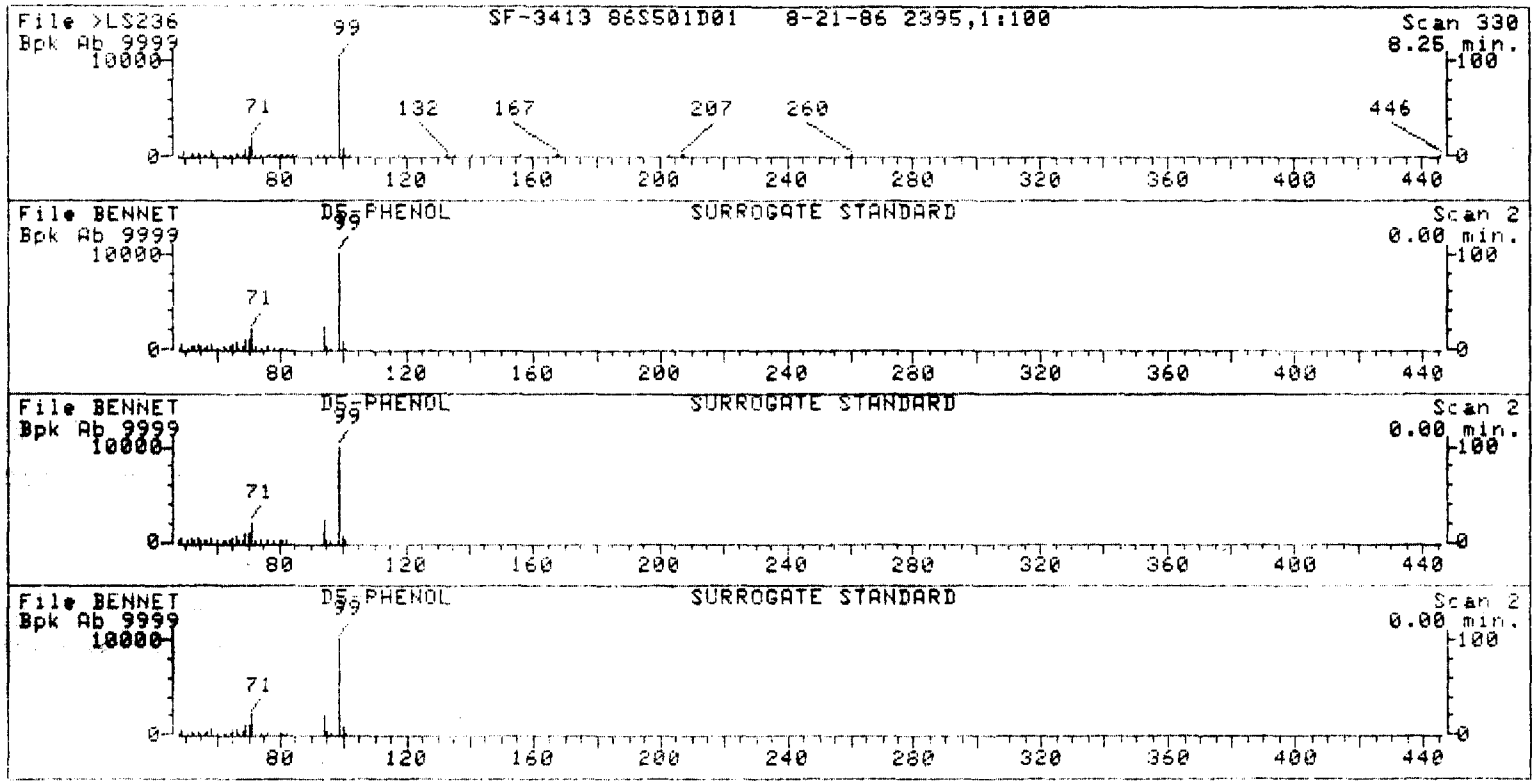
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Scan 330
8.25 min.
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132
167
207
260
446
File BENNET
D5-PHENOL
SURROGATE STANDARD
Scan 2
0.00 min.
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160
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240
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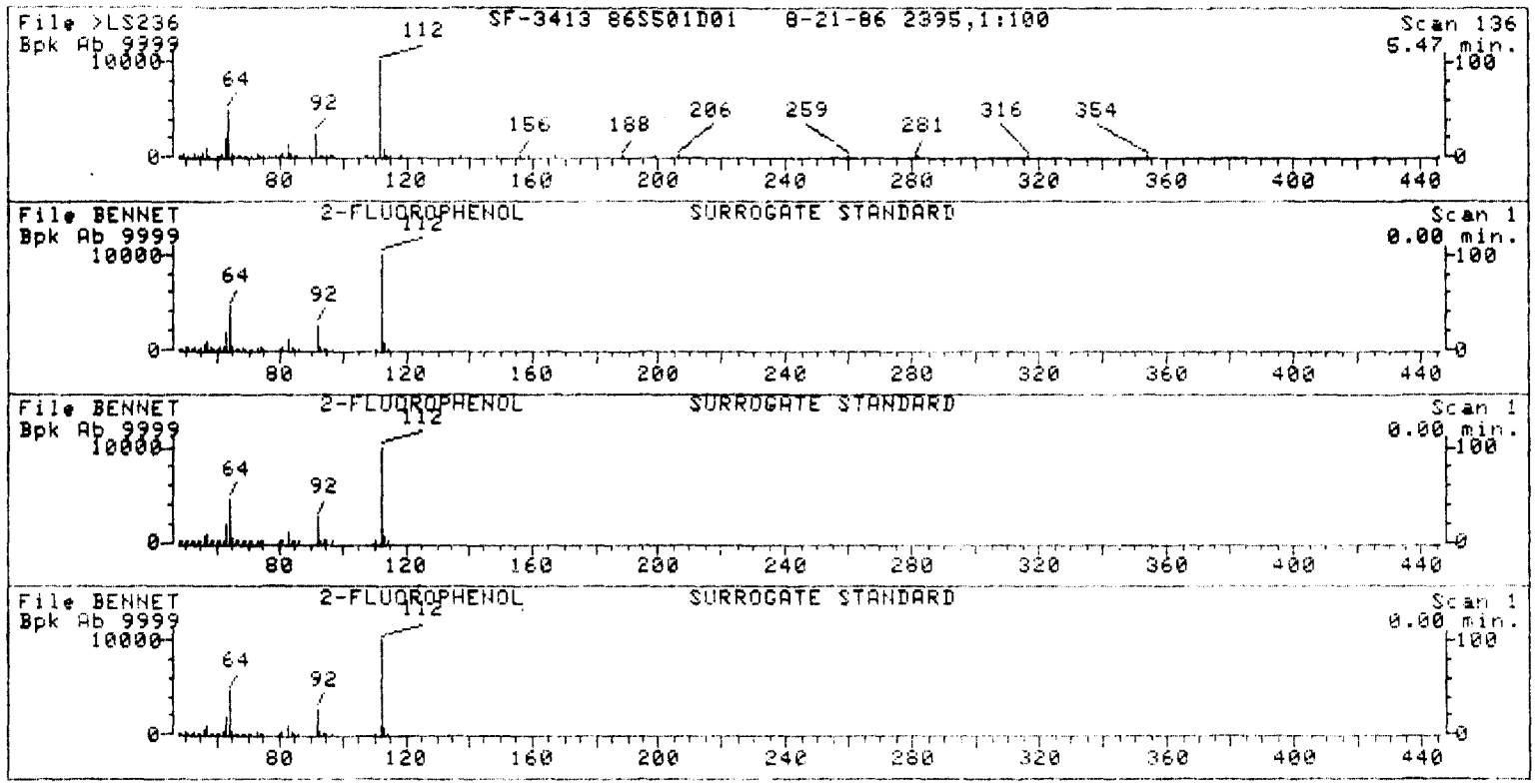
320
360
400
440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112
156
188
206
259
281
316
354
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
0.00 min.
100
0
64
92
112
80
120
160
200
240
280
320
360
400
440
File BENNET
Bpk Ab 9999
10000
0
2-FLUOROPHENOL
SURROGATE STANDARD
Scan 1
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64
92
112
80
120
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200
240
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400
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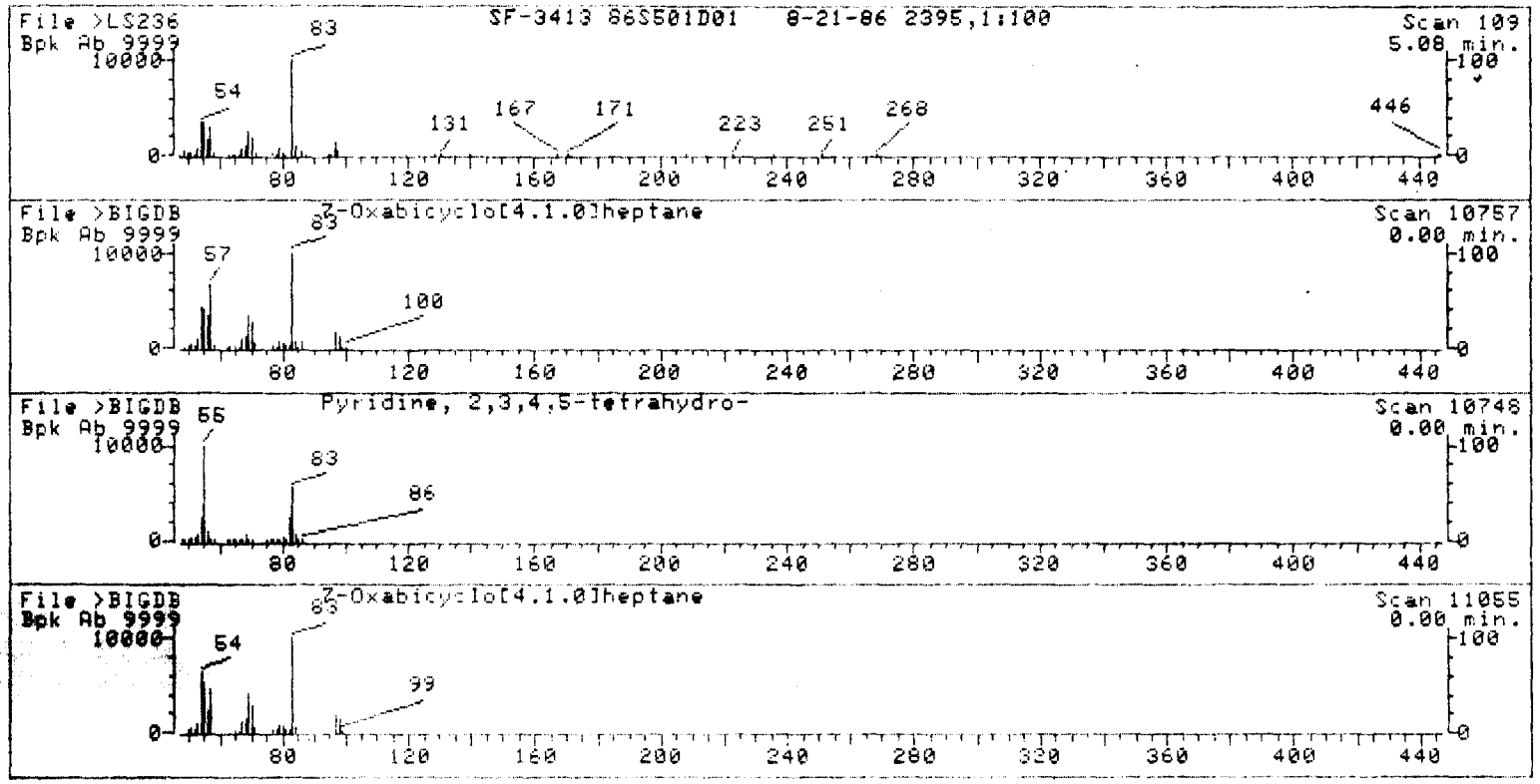
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167
171
223
251
268
446
File >BIGDB
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Scan 10757
0.00 min.
83
57
100
File >BIGDB
Bpk Ab 9999
10000
Pyridine, 2,3,4,5-tetrahydro-
Scan 10748
0.00 min.
56
83
86
File >BIGDB
Bpk Ab 9999
10000
2-Oxabicyclo[4.1.0]heptane
Scan 11055
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83
54
99
0
80
120
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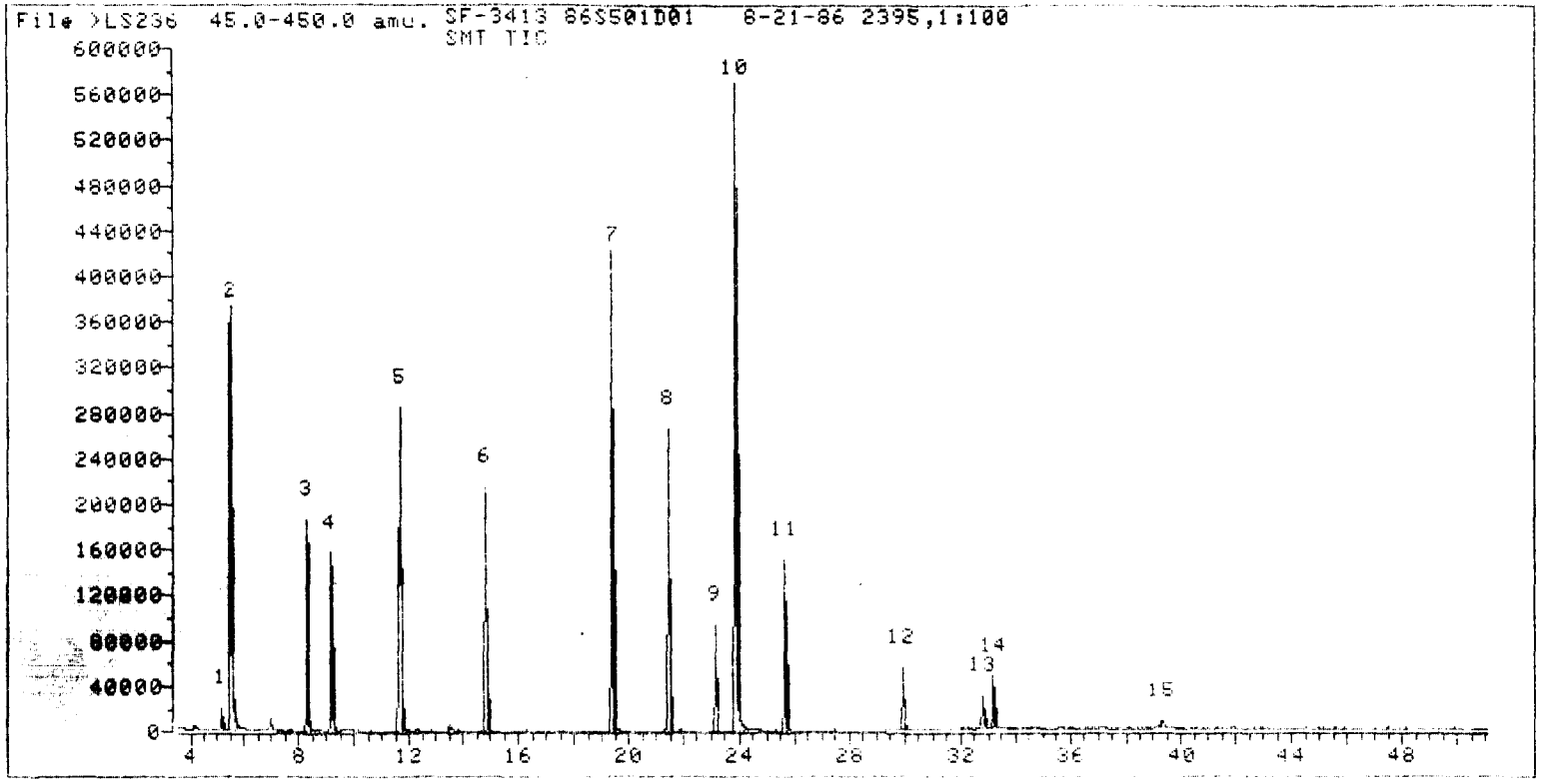
200
240
280
320
360
400
440
100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360000
320000
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240000
200000
160000
120000
80000
40000
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4
8
12
16
20
24
28
32
36
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44
48
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

>LS236 SF-3413 86S501D01 8-21-86 2395,1:100
45.01 450.0 SMT TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.082	104	109	121	18836	109800	82691	3.19	.677
2	5.469	130	136	154	372271	1700769	1668480	64.32	13.661
3	8.246	324	330	362	185833	840799	807108	31.11	6.608
4	9.105	384	390	407	157037	637456	619805	23.89	5.075
5	11.652	555	568	583	283806	1480530	1462806	56.39	11.977
6	14.800	779	788	803	214621	915879	903342	34.82	7.396
7	19.391	1102	1109	1120	422790	1575715	1567892	60.44	12.838
8	21.451	1247	1253	1269	265974	988503	973884	37.54	7.974
9	23.096	1362	1368	1382	93376	305010	295544	11.39	2.420
10	23.841	1410	1420	1458	569239	2615621	2594071	100.00	21.240
11	25.632	1538	1545	1560	150200	611230	593812	22.89	4.862
12	29.896	1836	1843	1851	56079	233223	215621	8.31	1.765
13	32.763	2036	2043	2057	28484	213630	155334	5.99	1.272
14	33.151	2063	2070	2082	46463	262988	203280	7.84	1.664
15	39.259	2486	2496	2518	7051	154919	69654	2.69	.570

Sum of corrected areas: 12213326.