

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071423\
 Data File : BF134305.D
 Acq On : 14 Jul 2023 23:48
 Operator : CG\JU
 Sample : 03592-01MSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMSD

Quant Time: Jul 15 01:15:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 14 22:51:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	78455	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	302592	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	147262	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	277047	20.000	ng	0.00
76) Chrysene-d12	14.039	240	180767	20.000	ng	0.00
86) Perylene-d12	15.545	264	150351	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	454077	96.815	ng	0.01
7) Phenol-d6	6.487	99	548892	95.163	ng	0.00
23) Nitrobenzene-d5	7.410	82	381386	67.942	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	185022	100.208	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	702973	69.403	ng	0.00
79) Terphenyl-d14	12.974	244	702498	62.545	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.652	88	72496	37.487	ng	98
3) Pyridine	3.434	79	169389	33.627	ng	96
4) n-Nitrosodimethylamine	3.399	42	115763	40.238	ng	92
6) Aniline	6.510	93	264219	37.644	ng	94
8) 2-Chlorophenol	6.628	128	212371	44.606	ng	98
9) Benzaldehyde	6.398	77	136098	44.131	ng	98
10) Phenol	6.498	94	258279	42.588	ng	89
11) bis(2-Chloroethyl)ether	6.581	93	189149	42.364	ng	97
12) 1,3-Dichlorobenzene	6.787	146	230314	45.375	ng	97
13) 1,4-Dichlorobenzene	6.863	146	232661	45.381	ng	99
14) 1,2-Dichlorobenzene	7.010	146	222581	46.357	ng	99
15) Benzyl Alcohol	6.987	79	194830	43.816	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.122	45	309092	39.131	ng	93
17) 2-Methylphenol	7.104	107	172804	40.532	ng	95
18) Hexachloroethane	7.351	117	87371	45.961	ng	97
19) n-Nitroso-di-n-propyla...	7.257	70	155536	42.521	ng	97
20) 3+4-Methylphenols	7.257	107	219683	42.474	ng	94
22) Acetophenone	7.251	105	304701	44.277	ng	96
24) Nitrobenzene	7.428	77	239260	42.179	ng	95
25) Isophorone	7.663	82	411680	40.353	ng	96
26) 2-Nitrophenol	7.745	139	116218	42.709	ng	97
27) 2,4-Dimethylphenol	7.781	122	180437	41.890	ng	94
28) bis(2-Chloroethoxy)met...	7.875	93	240393	40.695	ng	100
29) 2,4-Dichlorophenol	7.987	162	177398	41.533	ng	98
30) 1,2,4-Trichlorobenzene	8.063	180	195621	44.386	ng	96
31) Naphthalene	8.145	128	596108	40.784	ng	99
32) Benzoic acid	7.910	122	104508	32.379	ng	94
33) 4-Chloroaniline	8.198	127	174908	27.975	ng	98
34) Hexachlorobutadiene	8.257	225	126979	45.673	ng	99
35) Caprolactam	8.575	113	48084	34.190	ng	99
36) 4-Chloro-3-methylphenol	8.687	107	203426	42.395	ng	98
37) 2-Methylnaphthalene	8.839	142	403952	39.082	ng	100
38) 1-Methylnaphthalene	8.939	142	377620	39.300	ng	99
40) 1,2,4,5-Tetrachloroben...	9.004	216	193403	44.329	ng	99
41) Hexachlorocyclopentadiene	8.987	237	74216	35.856	ng	98
43) 2,4,6-Trichlorophenol	9.122	196	129085	43.463	ng	100

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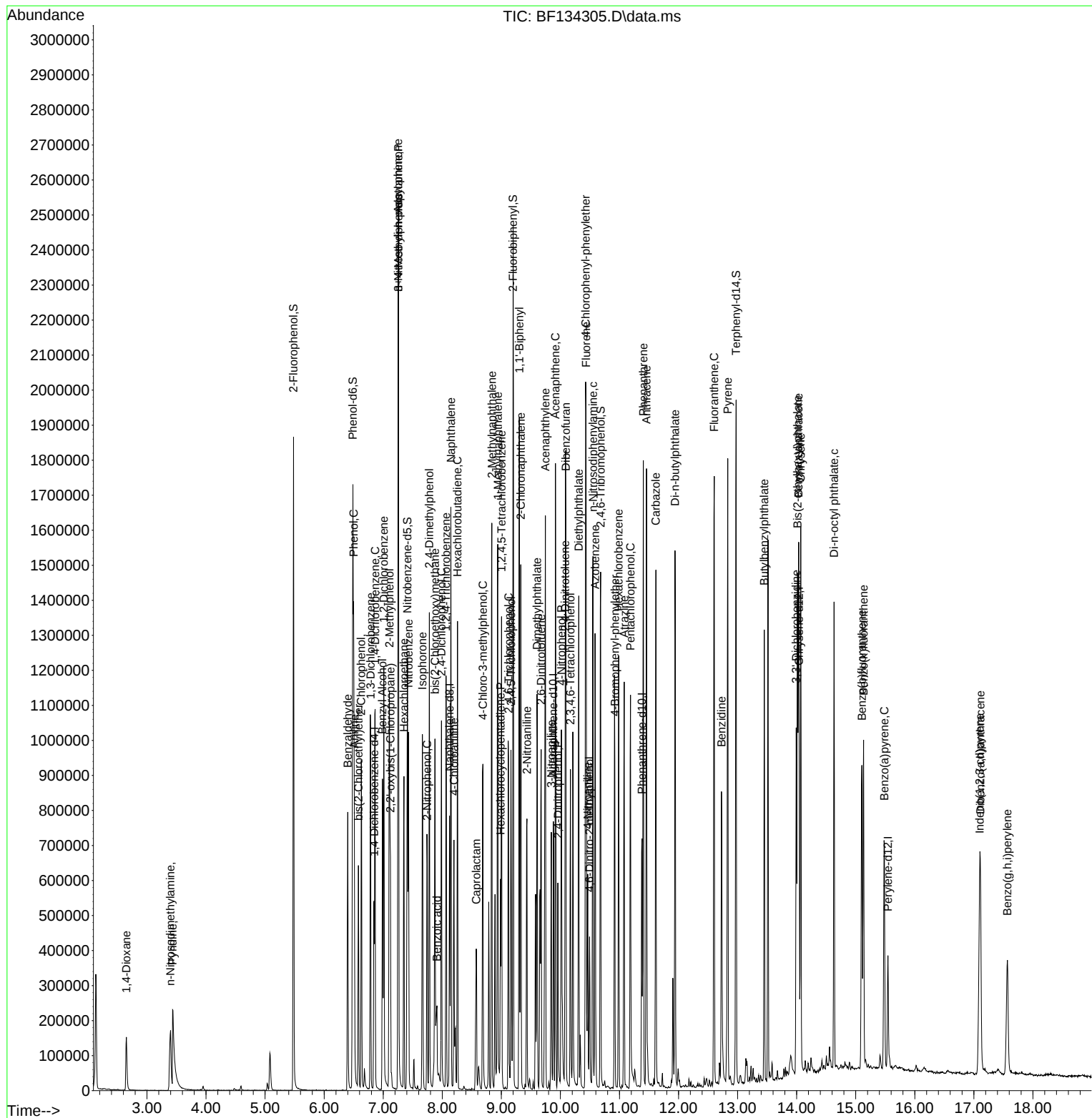
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	138188	39.555	ng	97
46) 1,1'-Biphenyl	9.304	154	505139	42.762	ng	97
47) 2-Chloronaphthalene	9.328	162	375568	43.453	ng	97
48) 2-Nitroaniline	9.434	65	134881	42.820	ng	93
49) Acenaphthylene	9.745	152	607183	41.125	ng	99
50) Dimethylphthalate	9.604	163	455900	42.648	ng	100
51) 2,6-Dinitrotoluene	9.675	165	99484	43.209	ng	98
52) Acenaphthene	9.916	154	364372	42.531	ng	98
53) 3-Nitroaniline	9.845	138	97419	35.270	ng	94
54) 2,4-Dinitrophenol	9.957	184	65590	50.810	ng	98
55) Dibenzofuran	10.092	168	552256	41.247	ng	98
56) 4-Nitrophenol	10.016	139	151097	78.205	ng	93
57) 2,4-Dinitrotoluene	10.081	165	128940	42.406	ng	# 83
58) Fluorene	10.433	166	441414	42.376	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.169	232	104498	37.921	ng	91
60) Diethylphthalate	10.310	149	481515	43.235	ng	98
61) 4-Chlorophenyl-phenyle...	10.428	204	217024	43.233	ng	99
62) 4-Nitroaniline	10.463	138	97634	35.074	ng	90
63) Azobenzene	10.586	77	440552	41.819	ng	97
65) 4,6-Dinitro-2-methylph...	10.492	198	48484	32.099	ng	81
66) n-Nitrosodiphenylamine	10.551	169	384246	43.409	ng	98
67) 4-Bromophenyl-phenylether	10.922	248	131636	44.703	ng	96
68) Hexachlorobenzene	10.986	284	147906	47.306	ng	96
69) Atrazine	11.081	200	127854	52.218	ng	97
70) Pentachlorophenol	11.186	266	133195	71.249	ng	99
71) Phenanthrene	11.404	178	607722	43.574	ng	99
72) Anthracene	11.457	178	606556	41.813	ng	100
73) Carbazole	11.616	167	566024	42.629	ng	99
74) Di-n-butylphthalate	11.939	149	732475	46.389	ng	99
75) Fluoranthene	12.604	202	747757	49.593	ng	97
77) Benzidine	12.727	184	397358	92.382	ng	99
78) Pyrene	12.833	202	729962	43.391	ng	98
80) Butylbenzylphthalate	13.451	149	277053	43.911	ng	98
81) Benzo(a)anthracene	14.033	228	582640	46.475	ng	98
82) 3,3'-Dichlorobenzidine	13.992	252	195435	49.205	ng	99
83) Chrysene	14.069	228	521513	42.950	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	373802	51.560	ng	98
85) Di-n-octyl phthalate	14.633	149	614631	57.698	ng	97
87) Indeno(1,2,3-cd)pyrene	17.098	276	387597	37.152	ng	95
88) Benzo(b)fluoranthene	15.104	252	450396	50.945	ng	98
89) Benzo(k)fluoranthene	15.133	252	419621	46.618	ng	97
90) Benzo(a)pyrene	15.486	252	360040	42.115	ng	# 98
91) Dibenzo(a,h)anthracene	17.110	278	315740	37.052	ng	97
92) Benzo(g,h,i)perylene	17.568	276	295914	33.674	ng	97

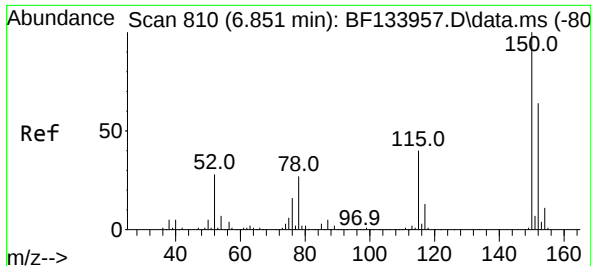
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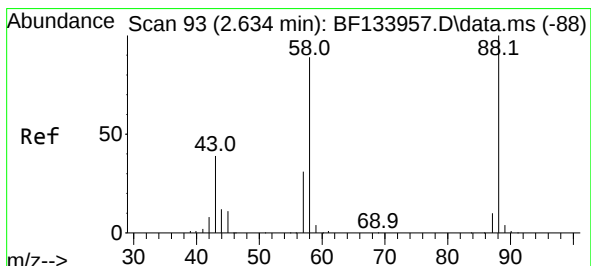
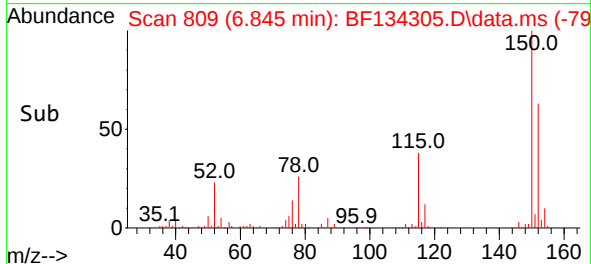
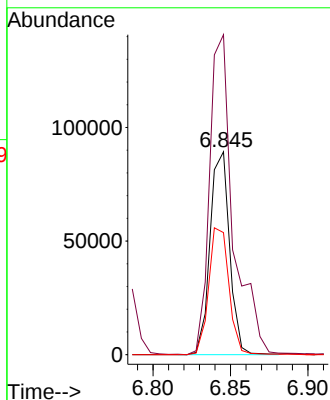
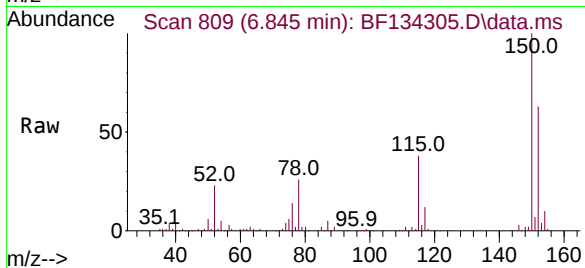




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.845 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: BF134305.D
 Acq: 14 Jul 2023 23:48

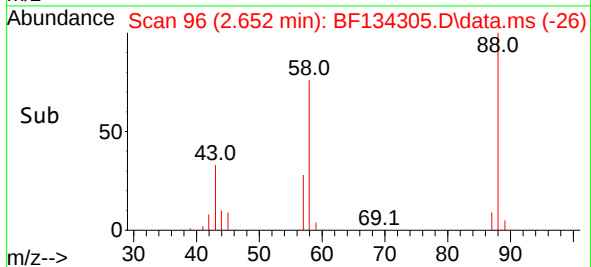
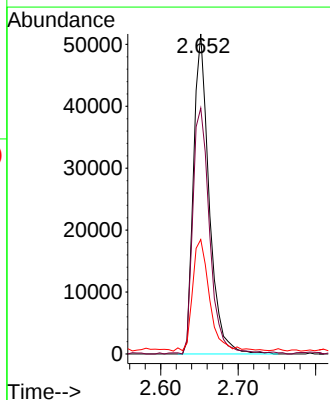
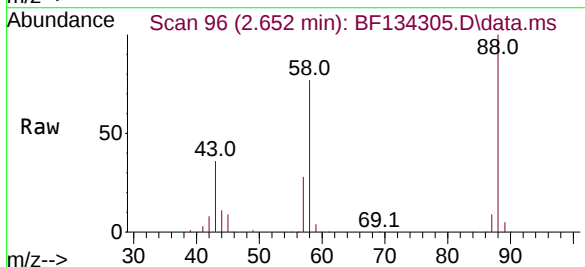
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 BNA_F
 ClientSampleId :
 SOIL-PILEMSD

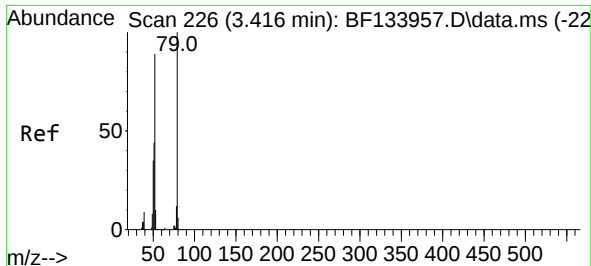
Tgt Ion:152 Resp: 78455
 Ion Ratio Lower Upper
 152 100
 150 157.8 124.5 186.7
 115 60.2 50.2 75.2



#2
 1,4-Dioxane
 Concen: 37.487 ng
 RT: 2.652 min Scan# 96
 Delta R.T. 0.059 min
 Lab File: BF134305.D
 Acq: 14 Jul 2023 23:48

Tgt Ion: 88 Resp: 72496
 Ion Ratio Lower Upper
 88 100
 58 83.2 68.8 103.2
 43 38.1 30.7 46.1





#3

Pyridine

Concen: 33.627 ng

RT: 3.434 min Scan# 21

Delta R.T. 0.053 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

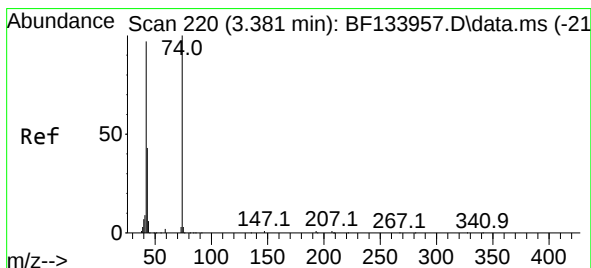
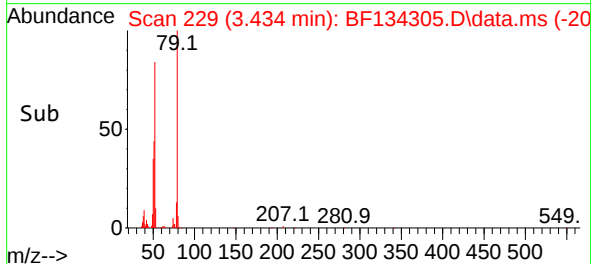
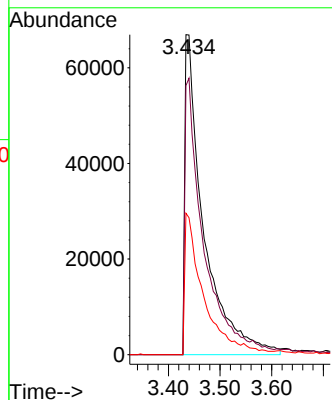
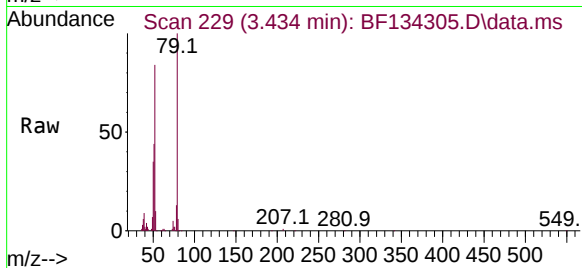
Tgt Ion: 79 Resp: 169389

Ion Ratio Lower Upper

79 100

52 84.1 71.1 106.7

51 44.2 35.2 52.8



#4

n-Nitrosodimethylamine

Concen: 40.238 ng

RT: 3.399 min Scan# 223

Delta R.T. 0.059 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

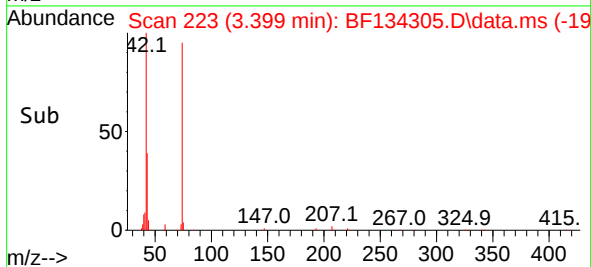
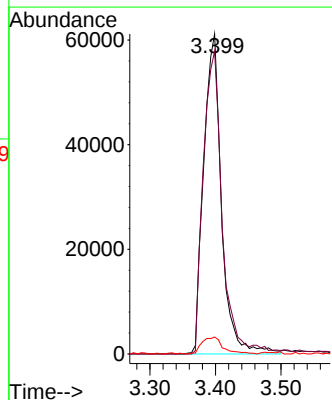
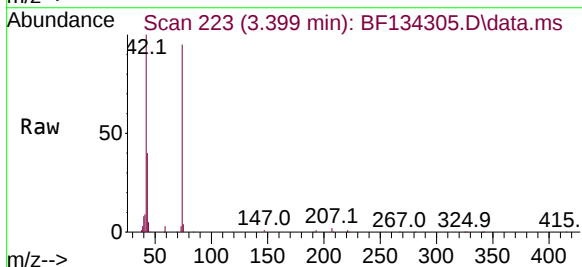
Tgt Ion: 42 Resp: 115763

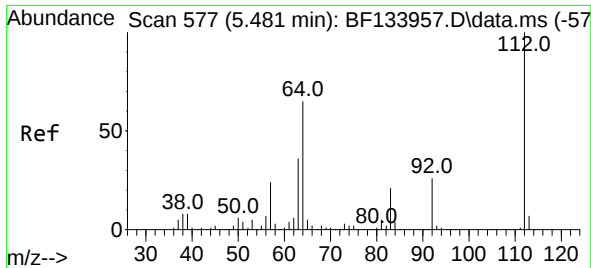
Ion Ratio Lower Upper

42 100

74 94.6 82.4 123.6

44 5.3 4.9 7.3

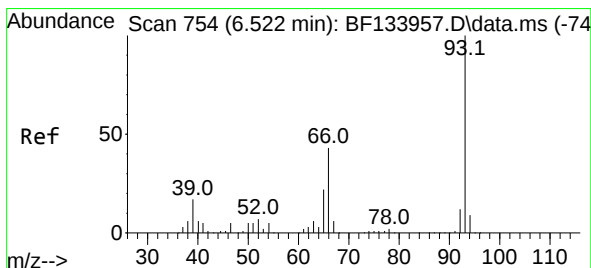
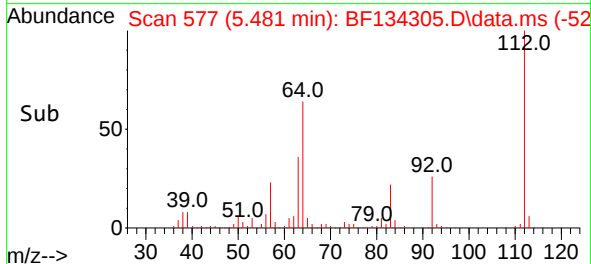
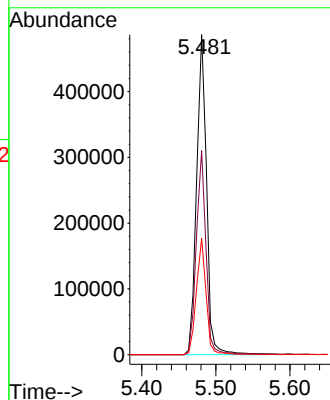
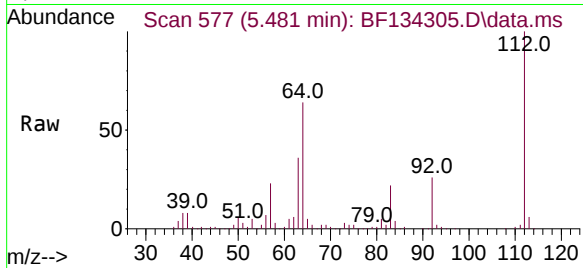




#5
2-Fluorophenol
Concen: 96.815 ng
RT: 5.481 min Scan# 51
Delta R.T. 0.012 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

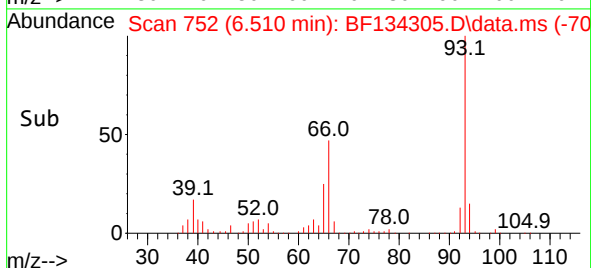
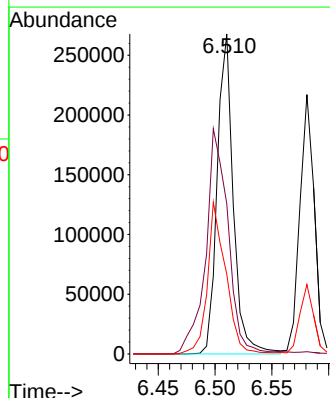
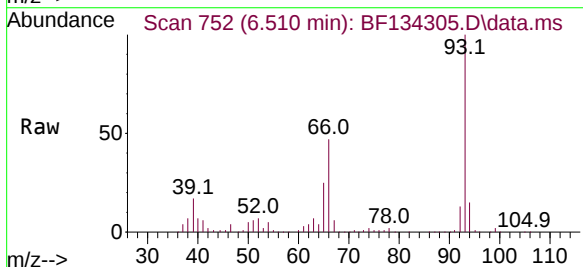
Instrument :
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Tgt Ion:112 Resp: 454077
Ion Ratio Lower Upper
112 100
64 63.7 52.1 78.1
63 36.4 28.6 42.8



#6
Aniline
Concen: 37.644 ng
RT: 6.510 min Scan# 752
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion: 93 Resp: 264219
Ion Ratio Lower Upper
93 100
66 47.0 34.5 51.7
65 25.0 17.8 26.6

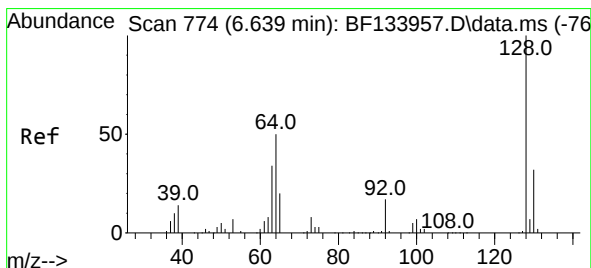
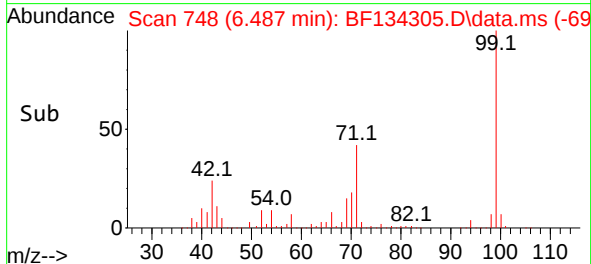
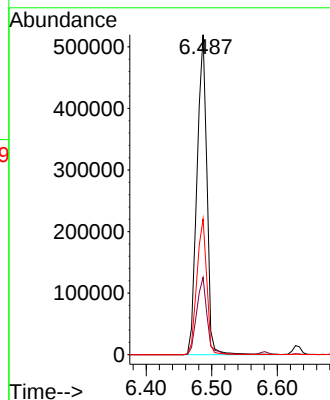
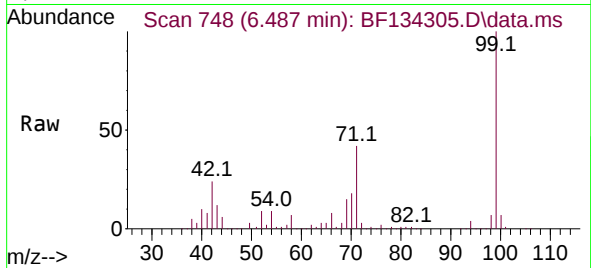




#7
Phenol-d6
Concen: 95.163 ng
RT: 6.487 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

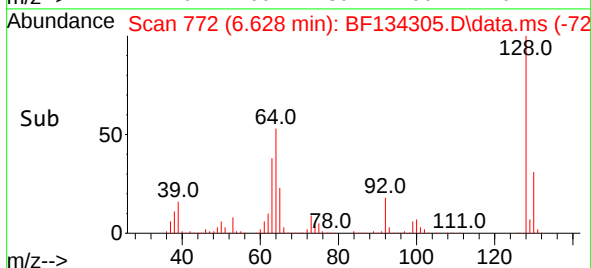
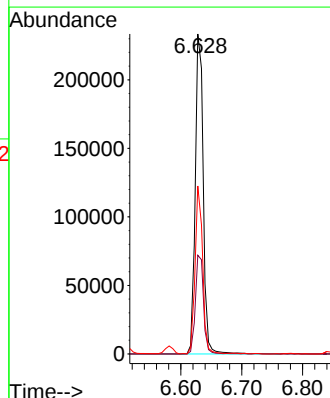
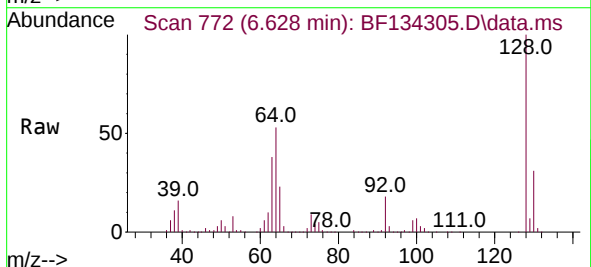
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Tgt Ion: 99 Resp: 548892
Ion Ratio Lower Upper
99 100
42 24.2 19.8 29.6
71 42.5 31.9 47.9



#8
2-Chlorophenol
Concen: 44.606 ng
RT: 6.628 min Scan# 772
Delta R.T. -0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion: 128 Resp: 212371
Ion Ratio Lower Upper
128 100
130 30.9 11.7 51.7
64 52.5 31.3 71.3





#9

Benzaldehyde

Concen: 44.131 ng

RT: 6.398 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

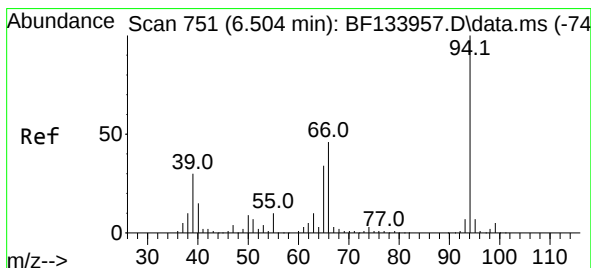
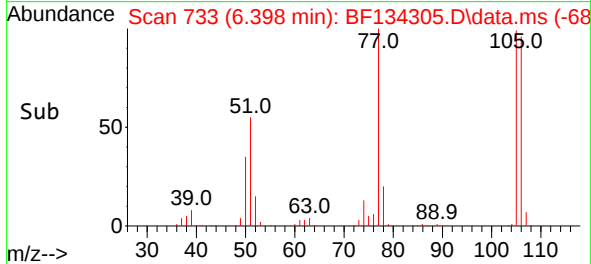
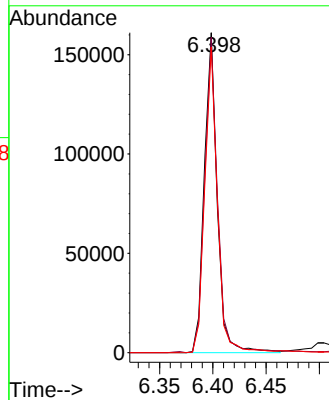
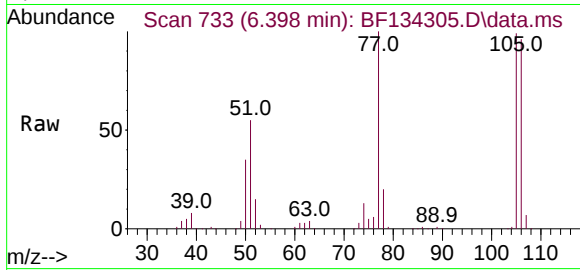
Tgt Ion: 77 Resp: 136098

Ion Ratio Lower Upper

77 100

105 98.5 82.0 122.0

106 95.5 76.9 116.9



#10

Phenol

Concen: 42.588 ng

RT: 6.498 min Scan# 750

Delta R.T. 0.000 min

Lab File: BF134305.D

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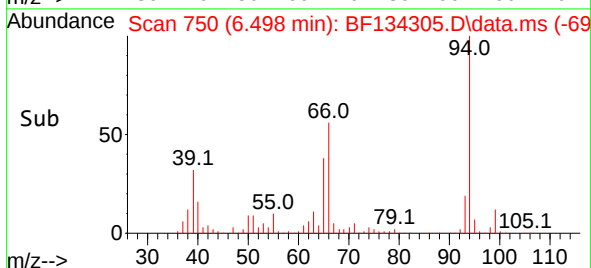
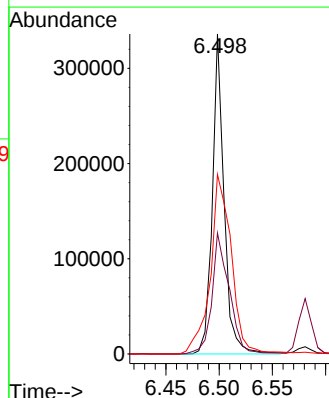
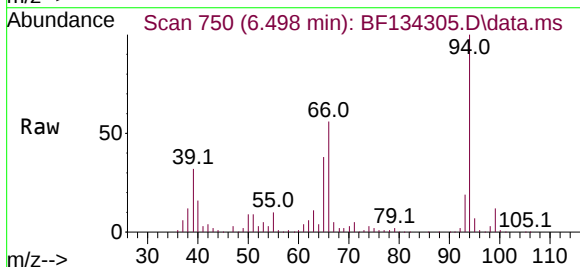
Tgt Ion: 94 Resp: 258279

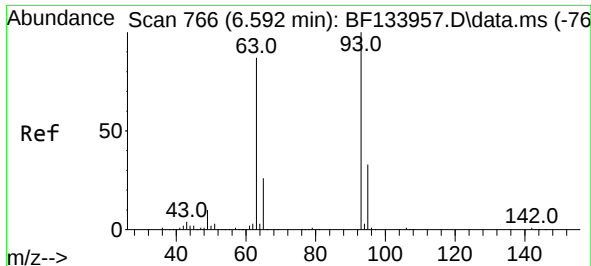
Ion Ratio Lower Upper

94 100

65 37.8 14.2 54.2

66 56.1 26.4 66.4

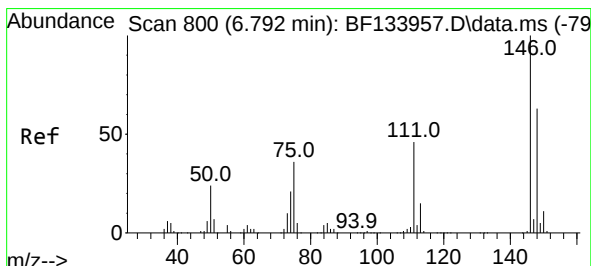
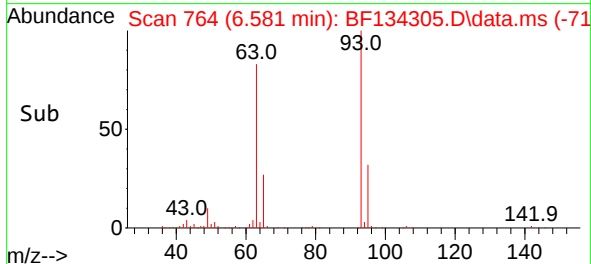
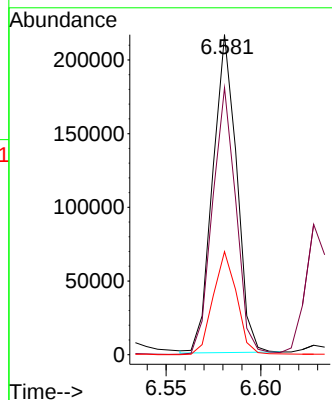
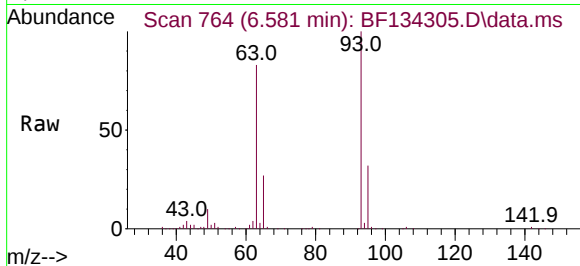




#11
bis(2-Chloroethyl)ether
Concen: 42.364 ng
RT: 6.581 min Scan# 764
Delta R.T. -0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

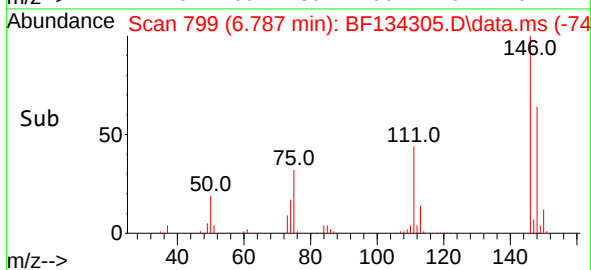
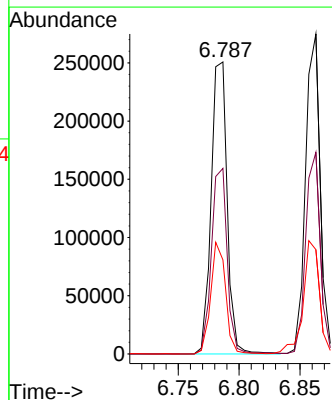
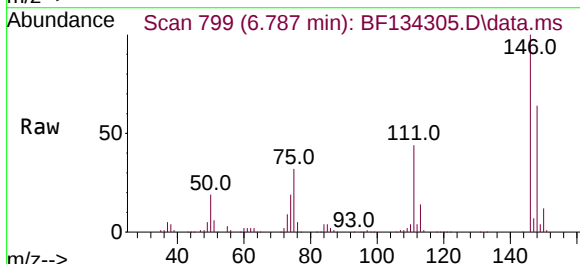
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

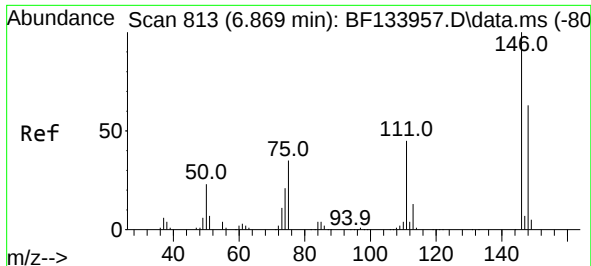
Tgt Ion: 93 Resp: 189149
Ion Ratio Lower Upper
93 100
63 83.4 66.5 106.5
95 32.2 12.9 52.9



#12
1,3-Dichlorobenzene
Concen: 45.375 ng
RT: 6.787 min Scan# 799
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:146 Resp: 230314
Ion Ratio Lower Upper
146 100
148 63.6 50.5 75.7
75 32.2 29.0 43.6

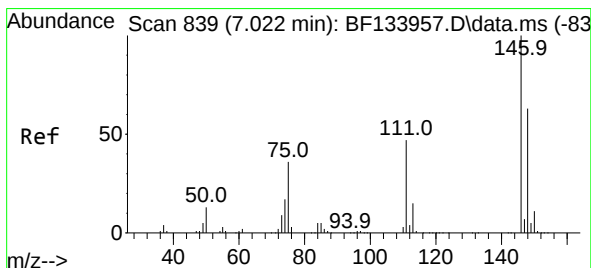
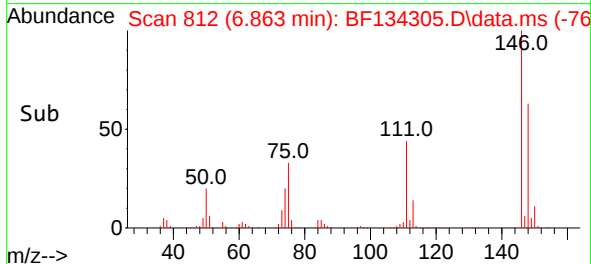
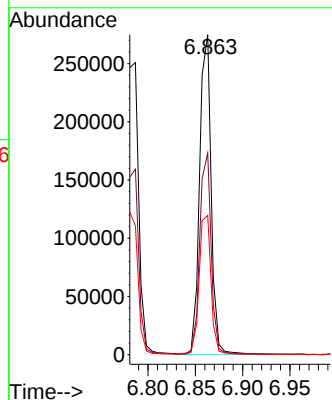
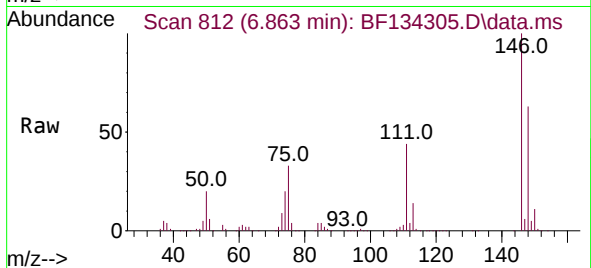




#13
1,4-Dichlorobenzene
Concen: 45.381 ng
RT: 6.863 min Scan# 813
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

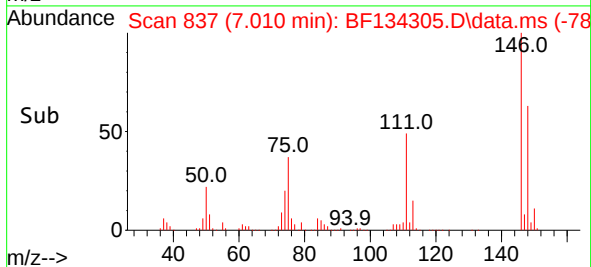
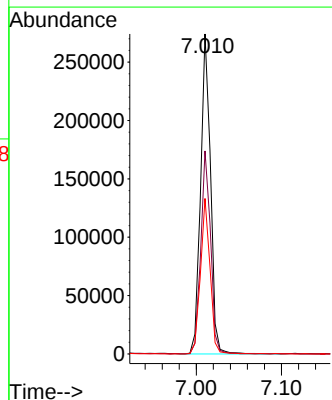
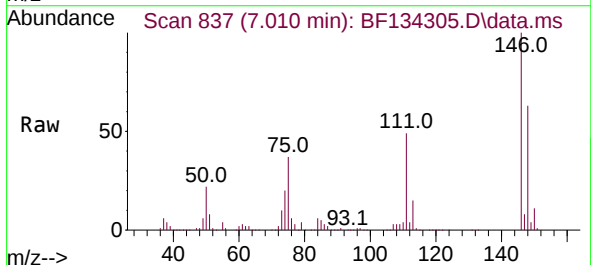
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

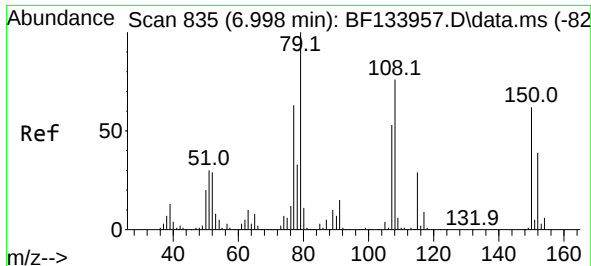
Tgt Ion:146 Resp: 232661
Ion Ratio Lower Upper
146 100
148 63.0 50.2 75.2
111 43.5 35.8 53.6



#14
1,2-Dichlorobenzene
Concen: 46.357 ng
RT: 7.010 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:146 Resp: 222581
Ion Ratio Lower Upper
146 100
148 63.4 50.6 76.0
111 48.6 38.0 57.0

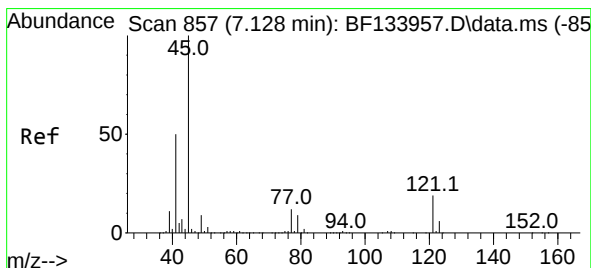
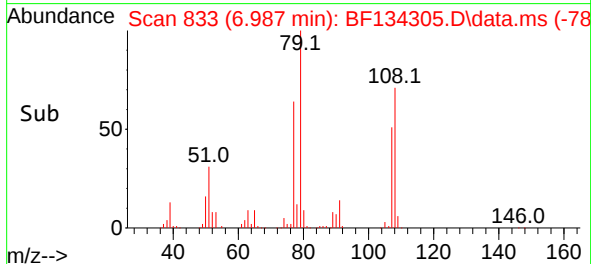
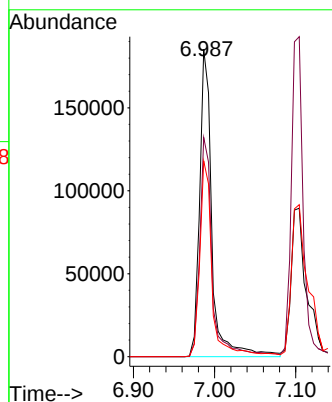
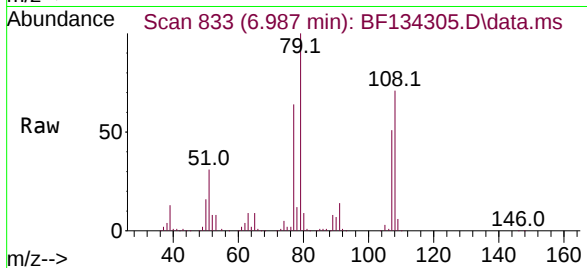




#15
Benzyl Alcohol
Concen: 43.816 ng
RT: 6.987 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

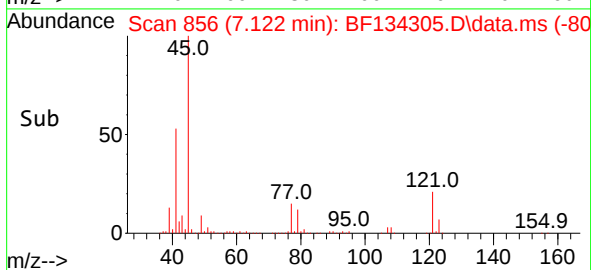
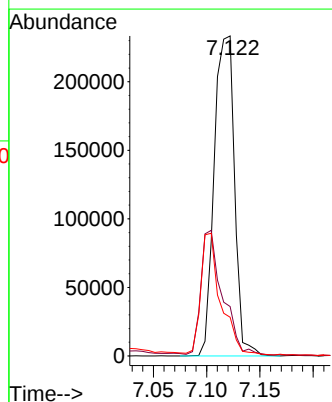
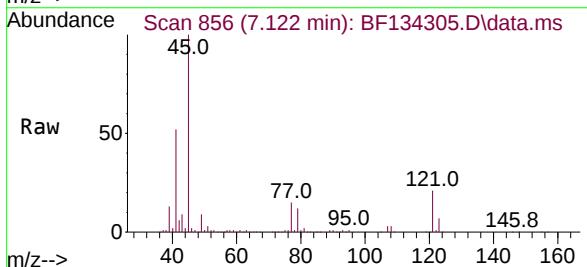
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

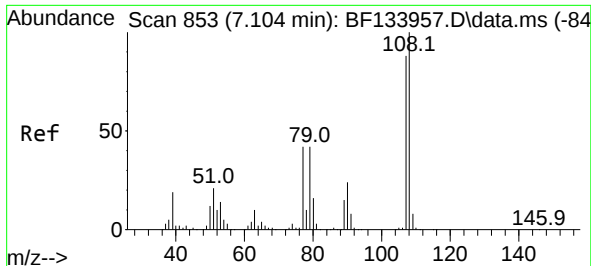
Tgt Ion: 79 Resp: 194830
Ion Ratio Lower Upper
79 100
108 71.3 60.7 91.1
77 63.7 50.6 75.8



#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.131 ng
RT: 7.122 min Scan# 856
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion: 45 Resp: 309092
Ion Ratio Lower Upper
45 100
77 15.5 0.0 32.9
79 12.1 0.0 29.5

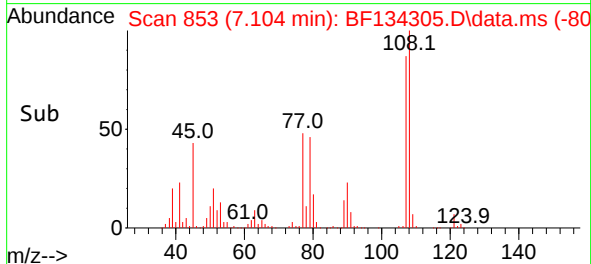
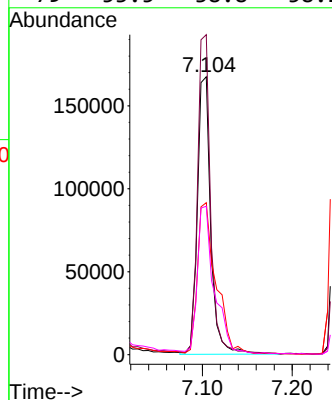
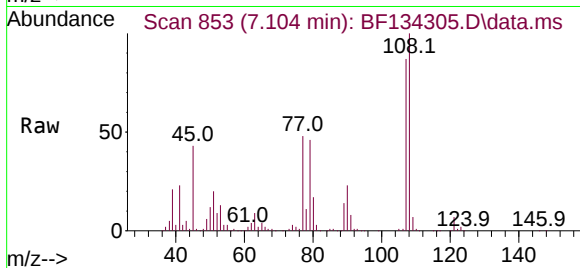




#17
2-Methylphenol
Concen: 40.532 ng
RT: 7.104 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

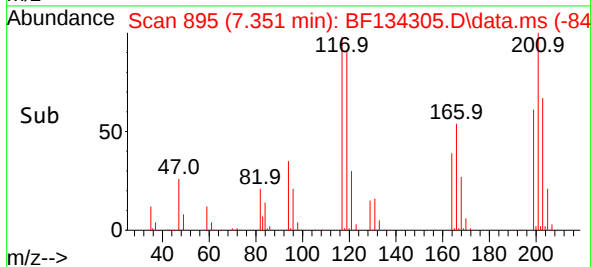
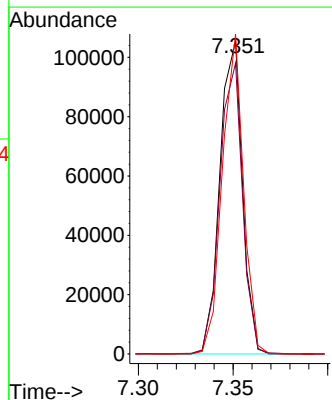
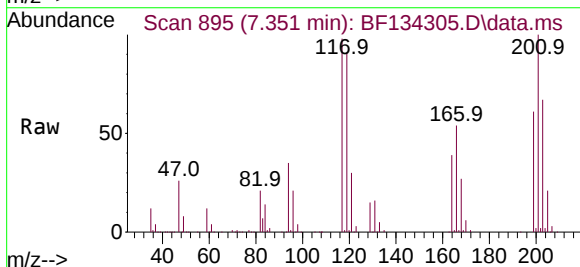
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:	107	Resp:	172804
Ion	Ratio	Lower	Upper
107	100		
108	115.2	90.6	136.0
77	54.7	38.3	57.5
79	53.5	38.8	58.2



#18
Hexachloroethane
Concen: 45.961 ng
RT: 7.351 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:	117	Resp:	87371
Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.2	111.4
201	102.4	77.2	115.8



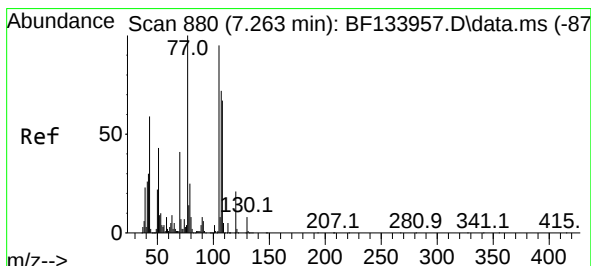
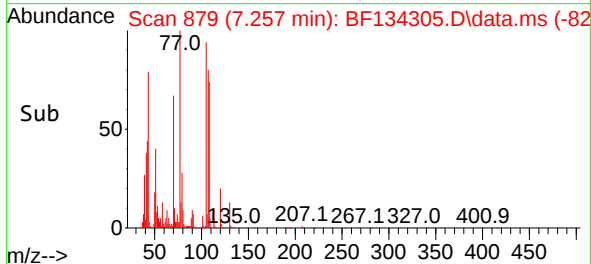
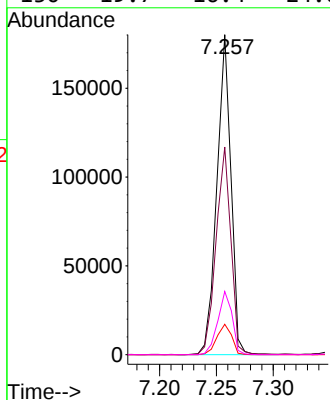
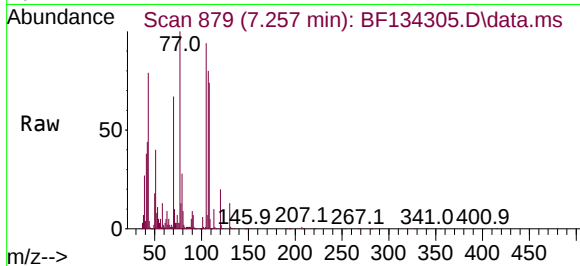


#19
n-Nitroso-di-n-propylamine
Concen: 42.521 ng
RT: 7.257 min Scan# 819
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion: 70 Resp: 155536

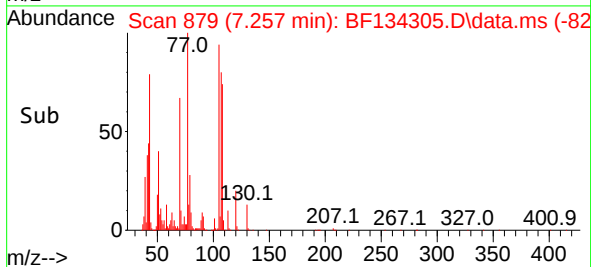
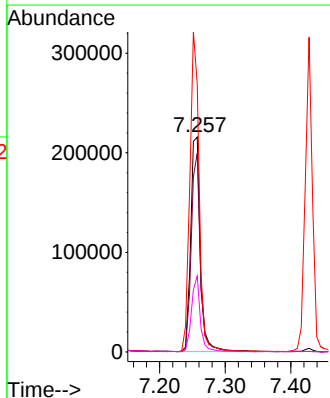
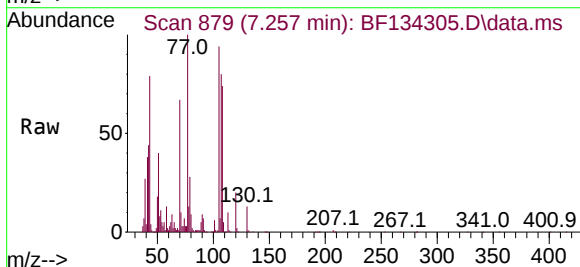
Ion	Ratio	Lower	Upper
70	100		
42	64.9	54.7	82.1
101	9.5	7.7	11.5
130	19.7	16.4	24.6

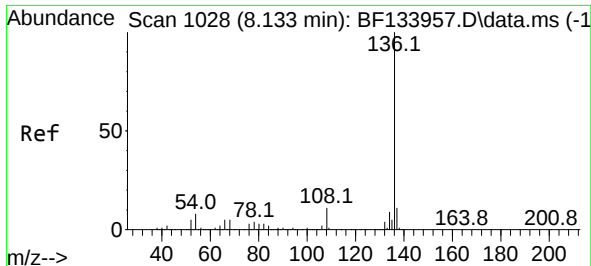


#20
3+4-Methylphenols
Concen: 42.474 ng
RT: 7.257 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion: 107 Resp: 219683

Ion	Ratio	Lower	Upper
107	100		
108	92.5	73.2	113.2
77	124.5	118.3	158.3
79	35.4	14.7	54.7



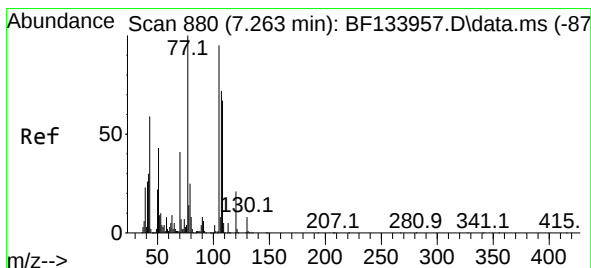
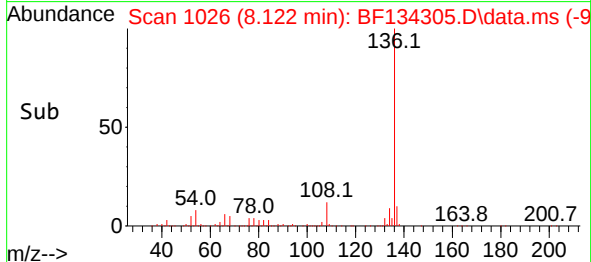
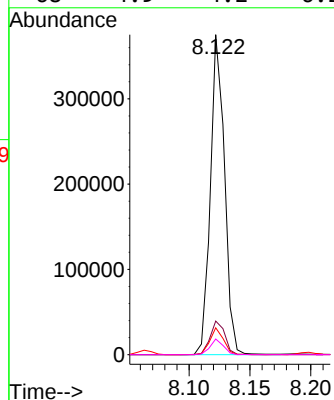
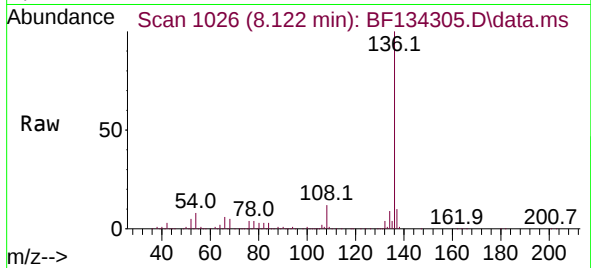


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:136 Resp: 302592

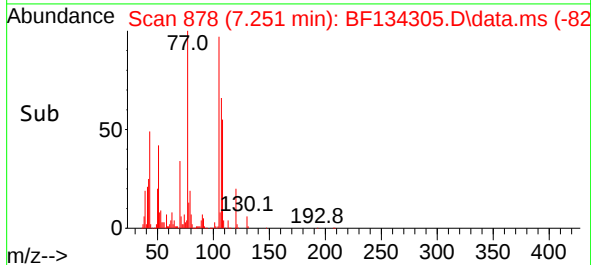
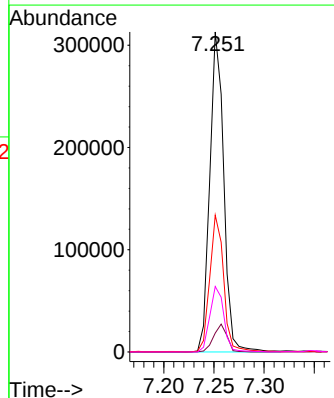
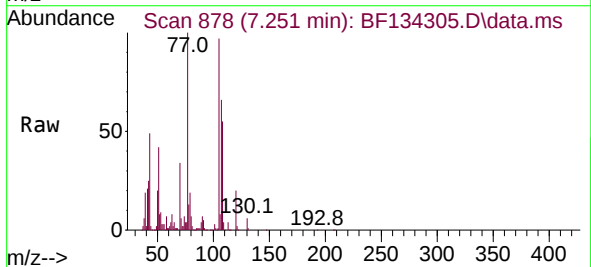
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	12.8
54	8.4	6.5	9.7
68	4.9	4.2	6.2

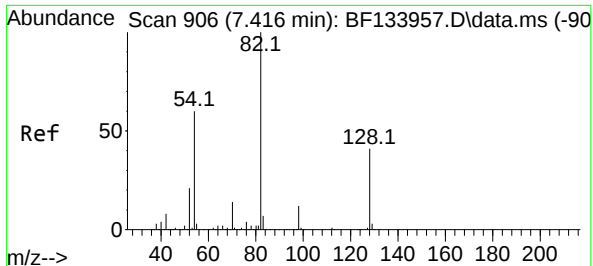


#22
Acetophenone
Concen: 44.277 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:105 Resp: 304701

Ion	Ratio	Lower	Upper
105	100		
71	5.9	5.5	8.3
51	42.8	36.5	54.7
120	20.4	17.3	25.9





#23

Nitrobenzene-d5

Concen: 67.942 ng

RT: 7.410 min Scan# 906

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

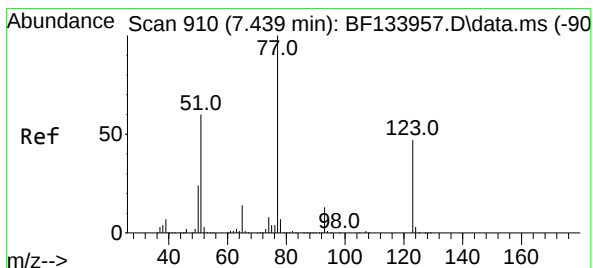
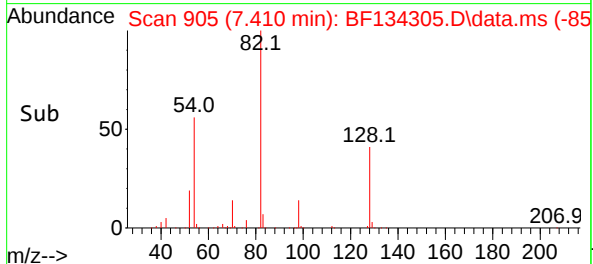
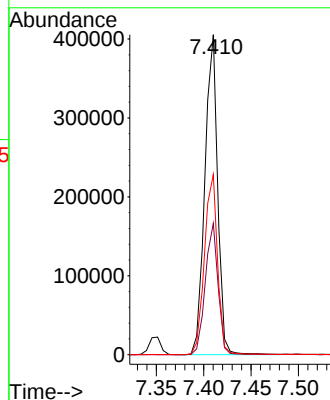
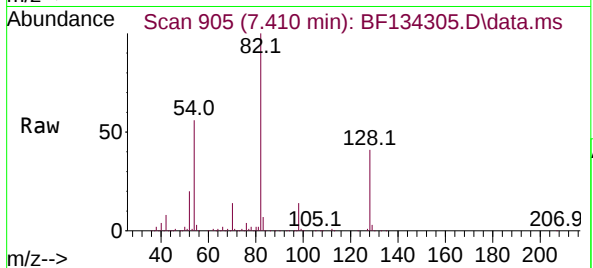
Tgt Ion: 82 Resp: 381386

Ion Ratio Lower Upper

82 100

128 41.1 32.5 48.7

54 56.3 48.2 72.2



#24

Nitrobenzene

Concen: 42.179 ng

RT: 7.428 min Scan# 908

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

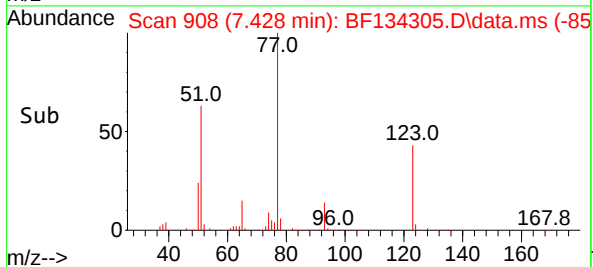
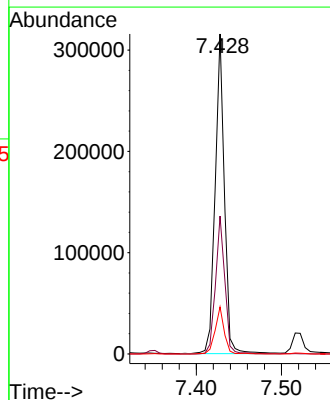
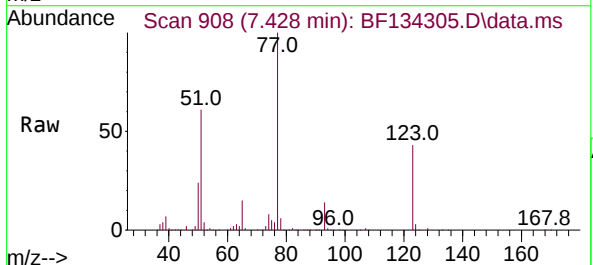
Tgt Ion: 77 Resp: 239260

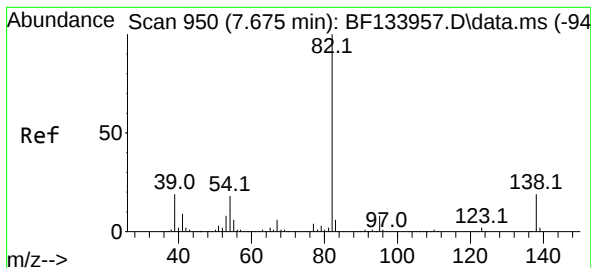
Ion Ratio Lower Upper

77 100

123 43.1 37.8 56.6

65 14.7 11.3 16.9





#25

Isophorone

Concen: 40.353 ng

RT: 7.663 min Scan# 94

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

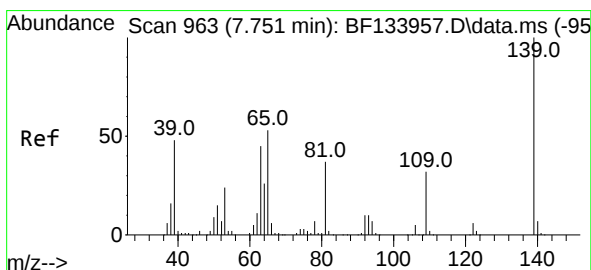
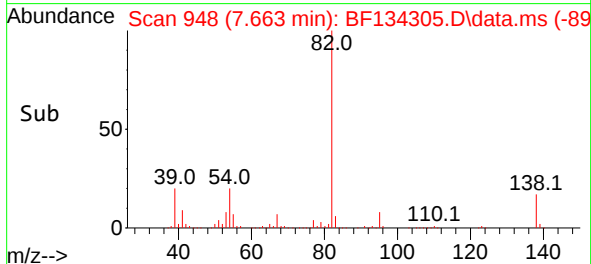
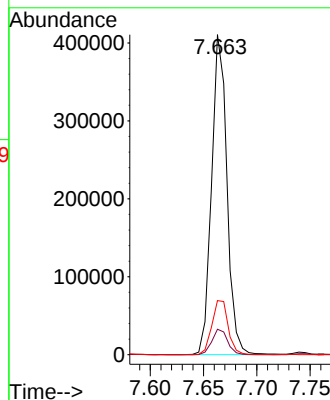
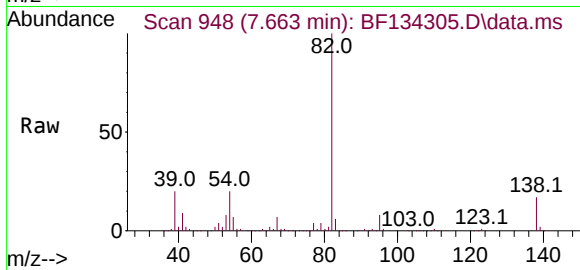
Tgt Ion: 82 Resp: 411680

Ion Ratio Lower Upper

82 100

95 8.0 6.1 9.1

138 16.9 15.2 22.8



#26

2-Nitrophenol

Concen: 42.709 ng

RT: 7.745 min Scan# 962

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

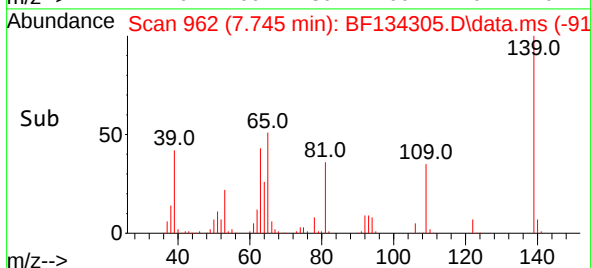
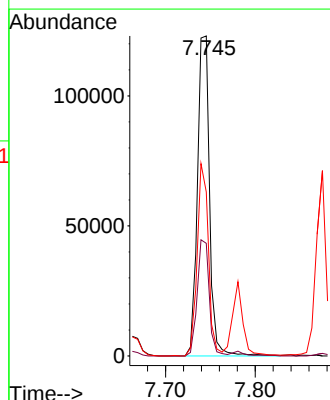
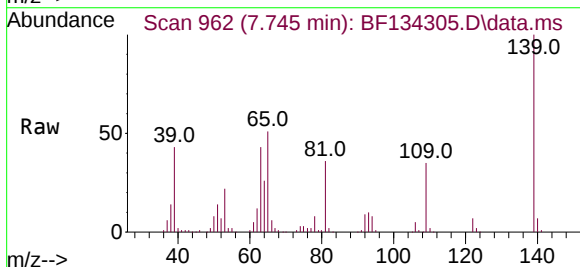
Tgt Ion:139 Resp: 116218

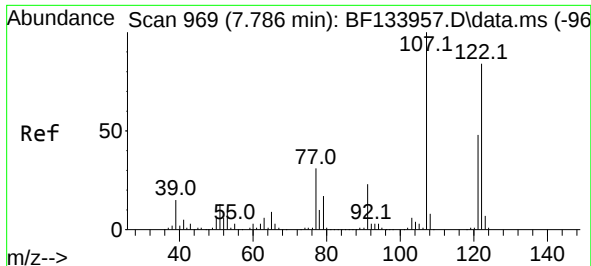
Ion Ratio Lower Upper

139 100

109 35.2 25.8 38.8

65 51.3 42.4 63.6

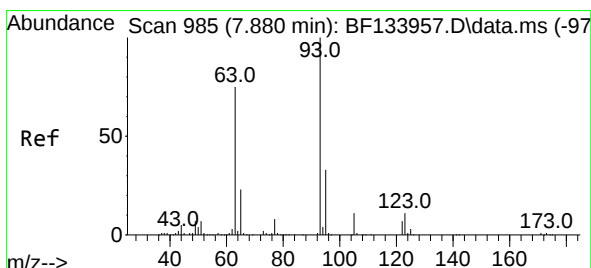
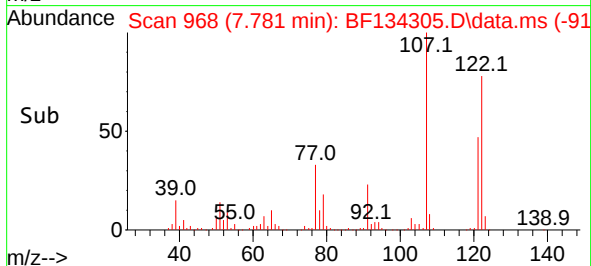
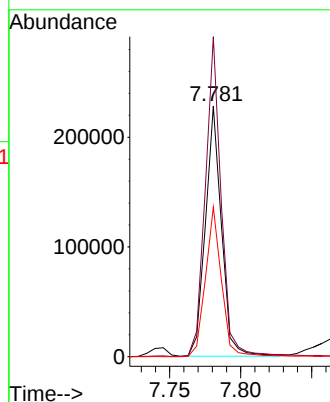
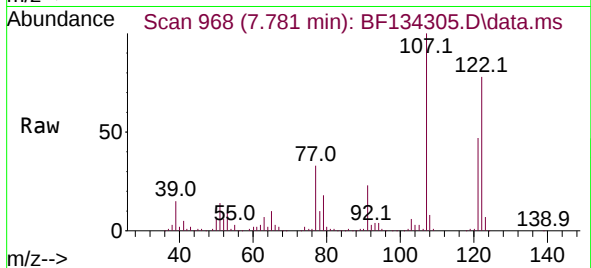




#27
2,4-Dimethylphenol
Concen: 41.890 ng
RT: 7.781 min Scan# 90
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

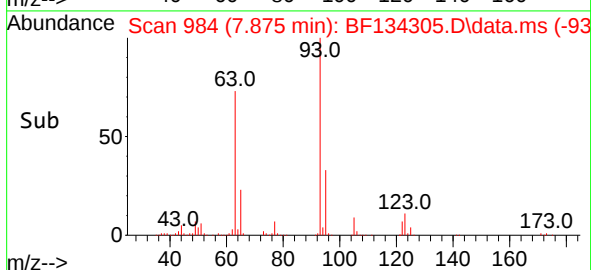
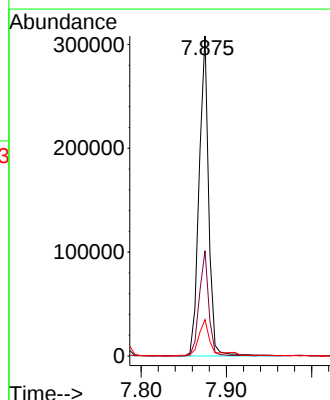
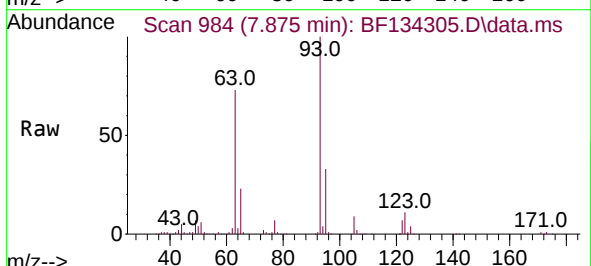
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

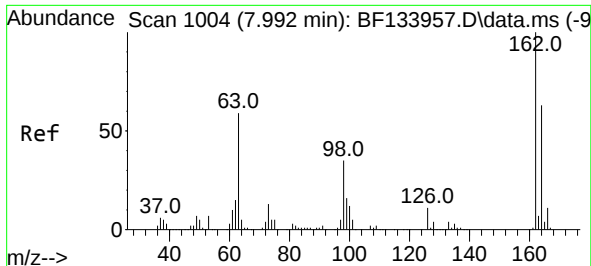
Tgt Ion:122 Resp: 180437
Ion Ratio Lower Upper
122 100
107 127.6 95.5 143.3
121 59.7 45.5 68.3



#28
bis(2-Chloroethoxy)methane
Concen: 40.695 ng
RT: 7.875 min Scan# 984
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion: 93 Resp: 240393
Ion Ratio Lower Upper
93 100
95 32.9 26.5 39.7
123 11.4 9.1 13.7





#29

2,4-Dichlorophenol

Concen: 41.533 ng

RT: 7.987 min Scan# 1003

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

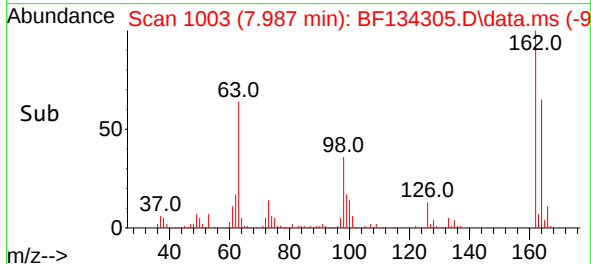
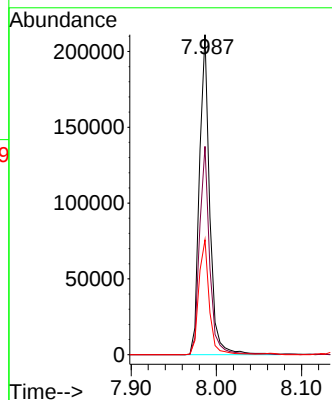
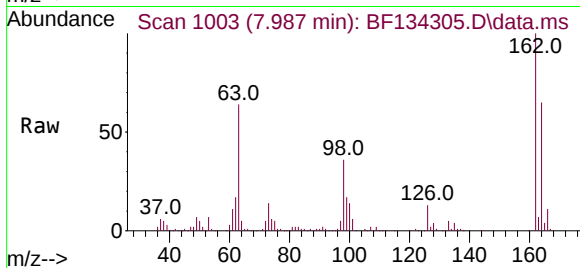
Tgt Ion:162 Resp: 177398

Ion Ratio Lower Upper

162 100

164 65.1 43.2 83.2

98 35.9 14.9 54.9



#30

1,2,4-Trichlorobenzene

Concen: 44.386 ng

RT: 8.063 min Scan# 1016

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

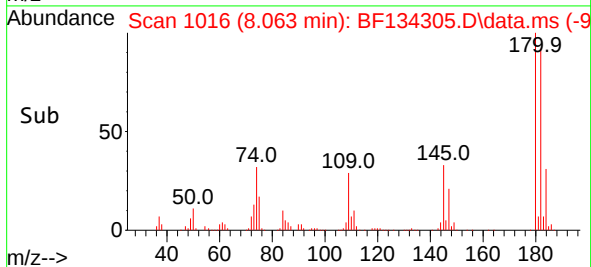
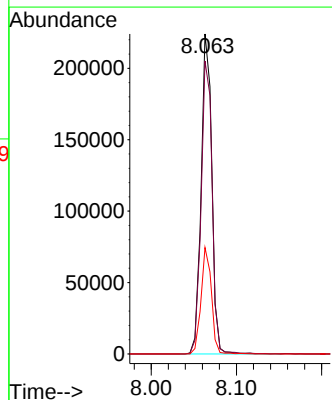
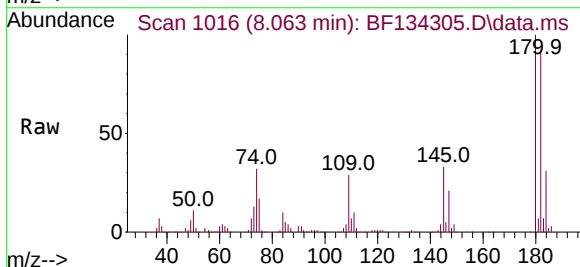
Tgt Ion:180 Resp: 195621

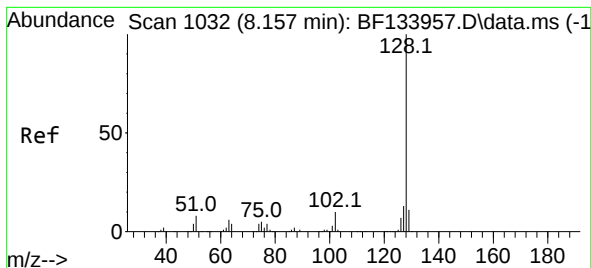
Ion Ratio Lower Upper

180 100

182 91.6 77.1 115.7

145 33.2 26.0 39.0





#31

Naphthalene

Concen: 40.784 ng

RT: 8.145 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

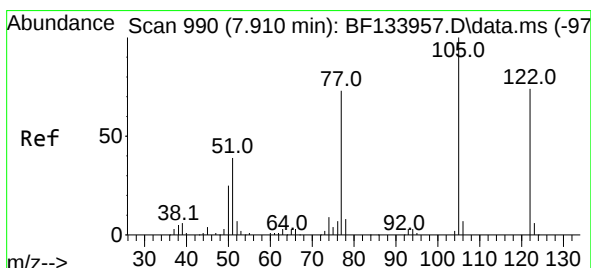
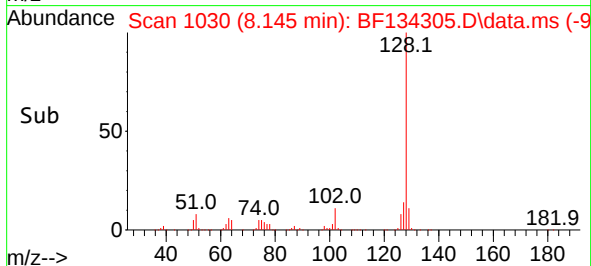
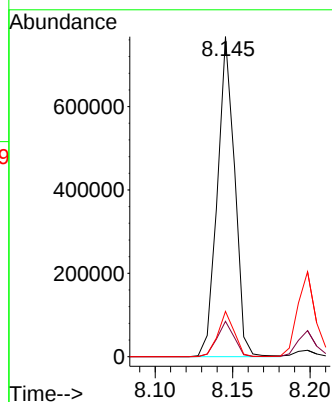
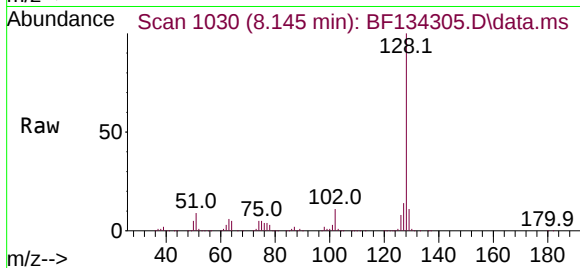
Tgt Ion:128 Resp: 596108

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

127 14.1 10.6 15.8



#32

Benzoic acid

Concen: 32.379 ng

RT: 7.910 min Scan# 990

Delta R.T. 0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

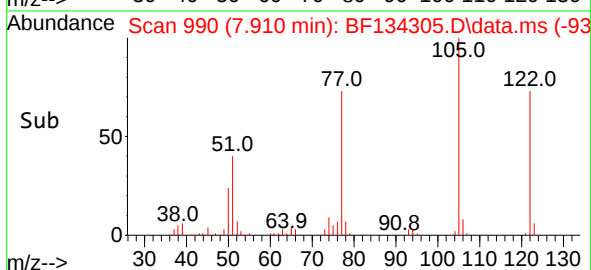
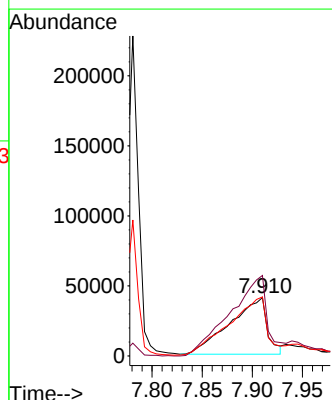
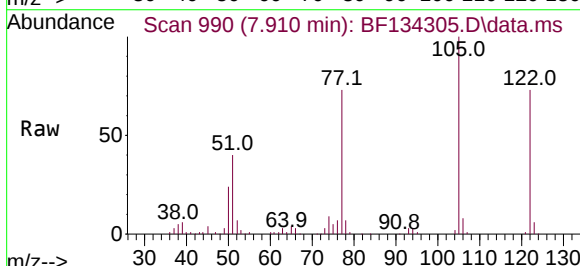
Tgt Ion:122 Resp: 104508

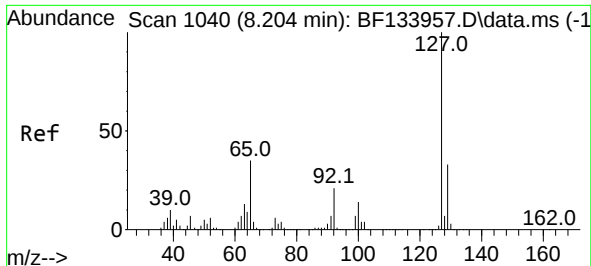
Ion Ratio Lower Upper

122 100

105 137.6 109.7 149.7

77 100.9 76.0 116.0

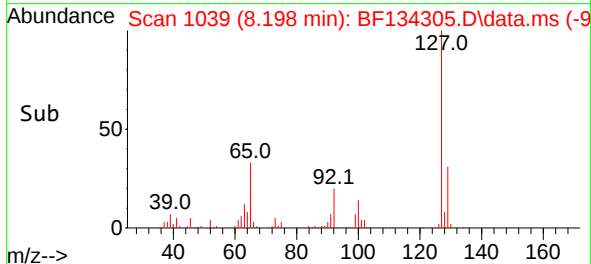
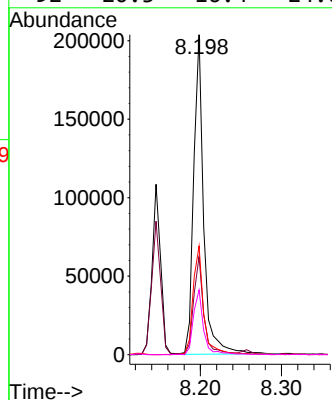
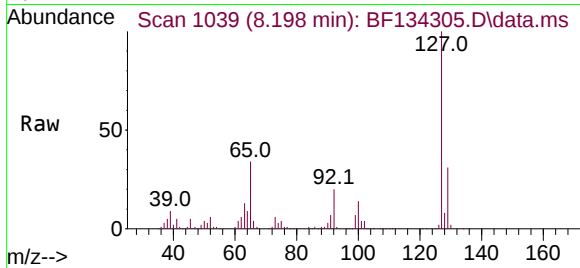




#33
4-Chloroaniline
Concen: 27.975 ng
RT: 8.198 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

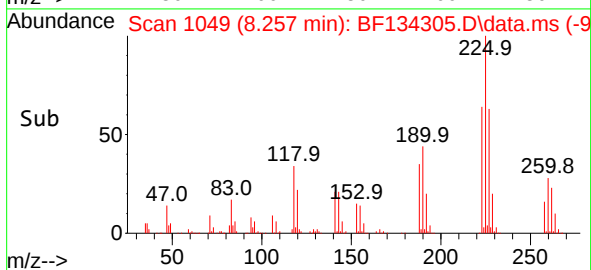
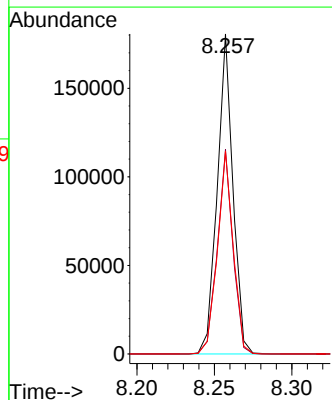
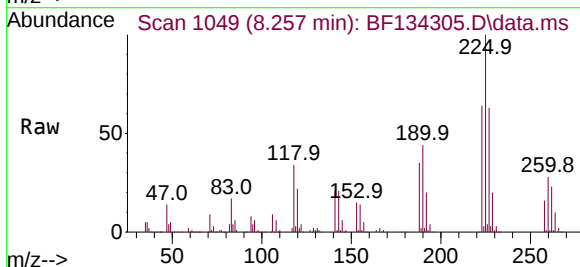
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

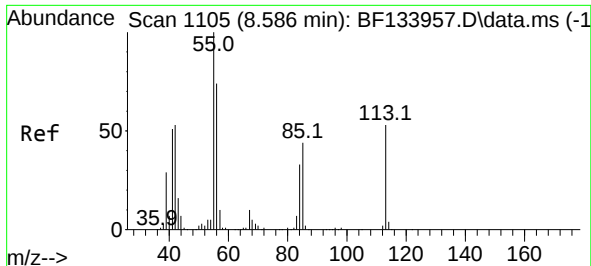
Tgt Ion:	127	Resp:	174908
Ion	Ratio	Lower	Upper
127	100		
129	30.6	26.4	39.6
65	33.9	27.8	41.8
92	20.3	16.4	24.6



#34
Hexachlorobutadiene
Concen: 45.673 ng
RT: 8.257 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:	225	Resp:	126979
Ion	Ratio	Lower	Upper
225	100		
223	63.9	49.8	74.8
227	63.3	51.0	76.4

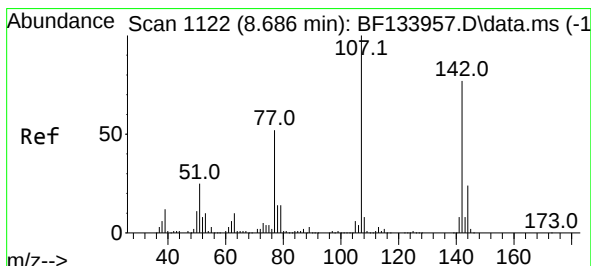
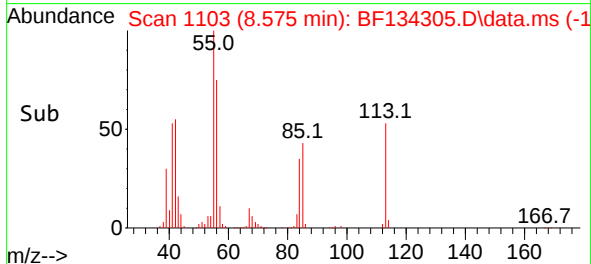
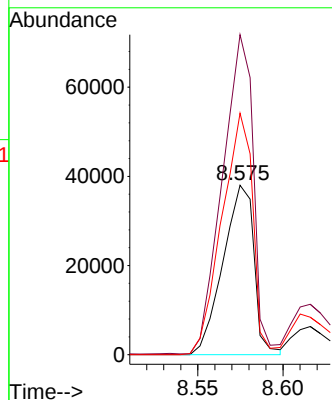
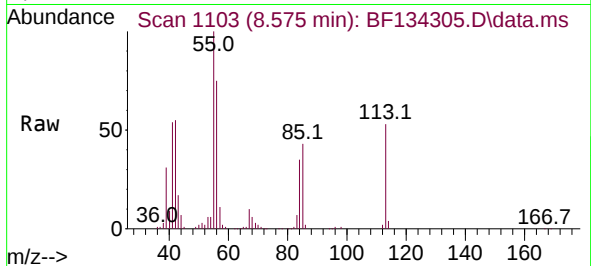




#35
Caprolactam
Concen: 34.190 ng
RT: 8.575 min Scan# 1105
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

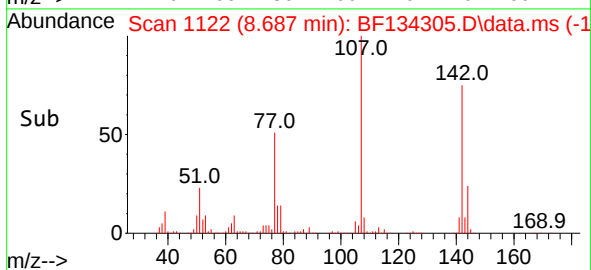
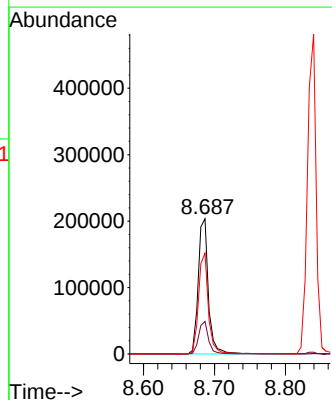
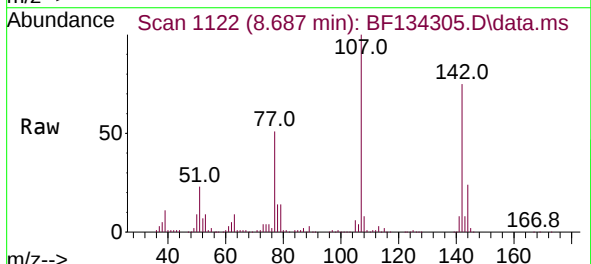
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

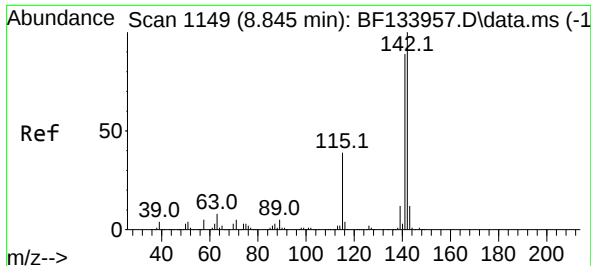
Tgt Ion:113 Resp: 48084
Ion Ratio Lower Upper
113 100
55 188.9 170.2 210.2
56 142.5 121.4 161.4



#36
4-Chloro-3-methylphenol
Concen: 42.395 ng
RT: 8.687 min Scan# 1122
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:107 Resp: 203426
Ion Ratio Lower Upper
107 100
144 24.0 19.6 29.4
142 74.6 61.4 92.2





#37

2-Methylnaphthalene

Concen: 39.082 ng

RT: 8.839 min Scan# 1148

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

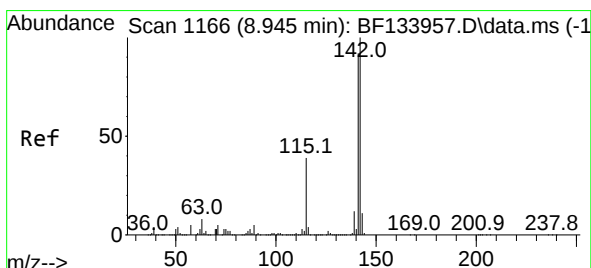
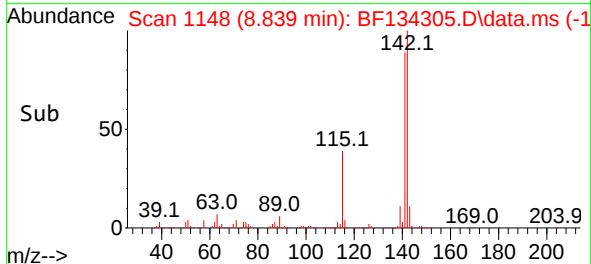
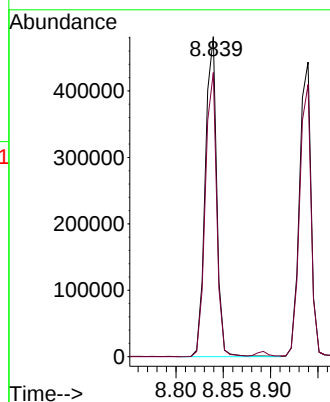
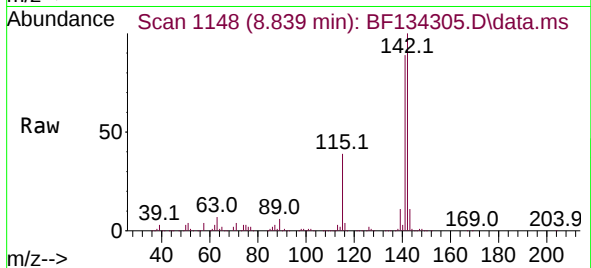
SOIL-PILEMSD

Tgt Ion:142 Resp: 403952

Ion Ratio Lower Upper

142 100

141 88.8 71.0 106.4



#38

1-Methylnaphthalene

Concen: 39.300 ng

RT: 8.939 min Scan# 1165

Delta R.T. 0.000 min

Lab File: BF134305.D

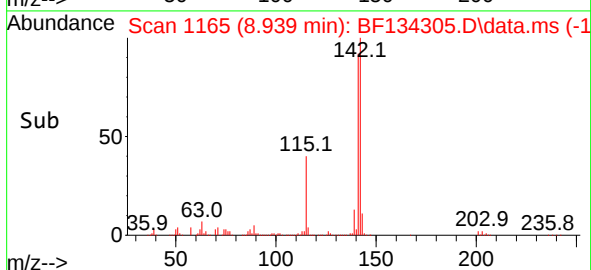
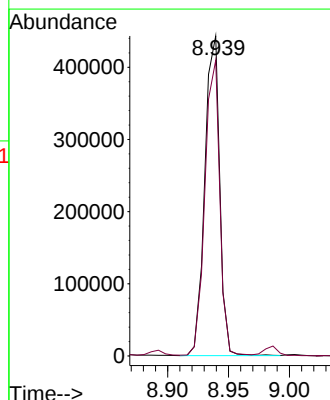
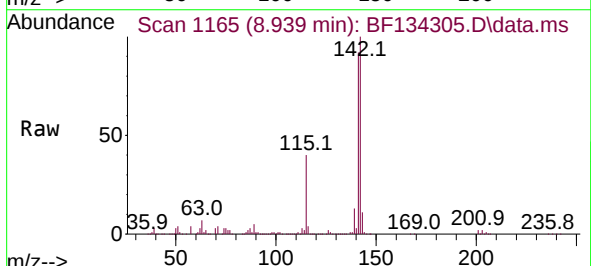
Acq: 14 Jul 2023 23:48

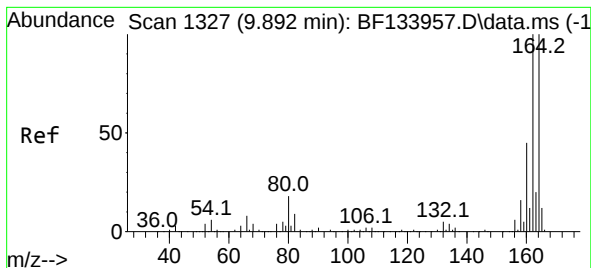
Tgt Ion:142 Resp: 377620

Ion Ratio Lower Upper

142 100

141 92.4 73.5 110.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.881 min Scan# 1176

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

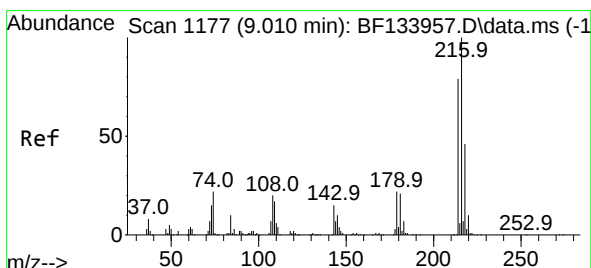
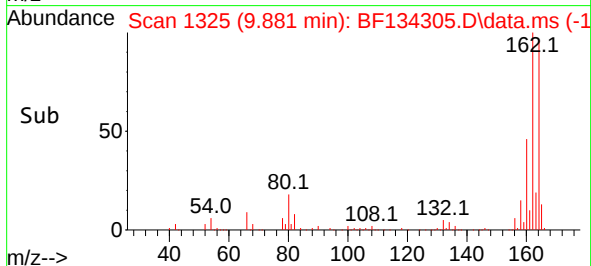
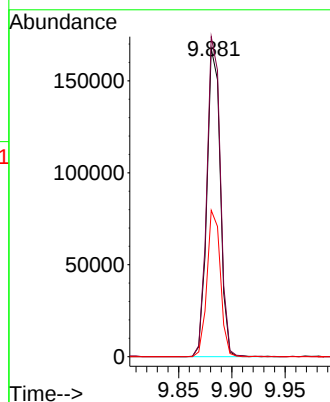
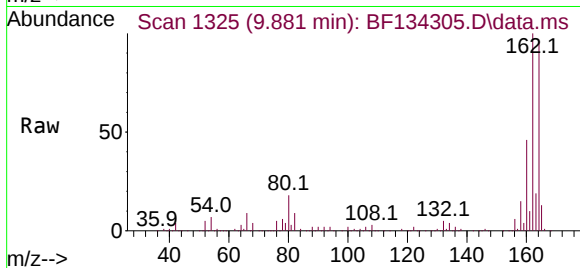
Tgt Ion:164 Resp: 147262

Ion Ratio Lower Upper

164 100

162 103.9 80.0 120.0

160 47.5 35.9 53.9



#40

1,2,4,5-Tetrachlorobenzene

Concen: 44.329 ng

RT: 9.004 min Scan# 1176

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Tgt Ion:216 Resp: 193403

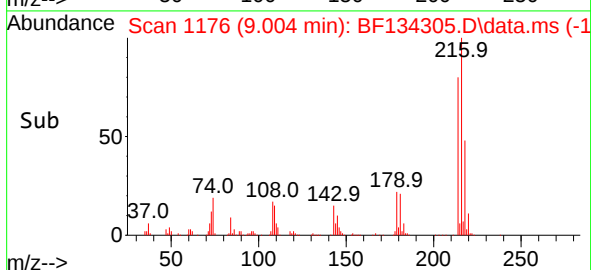
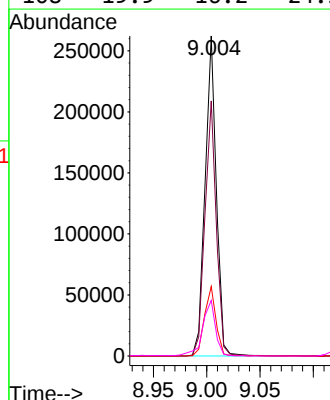
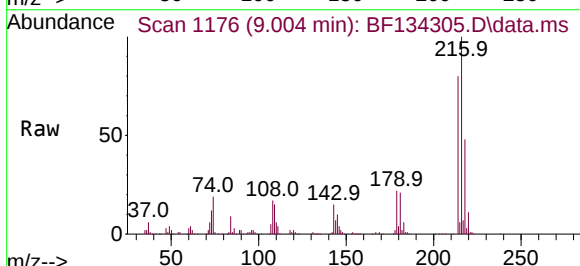
Ion Ratio Lower Upper

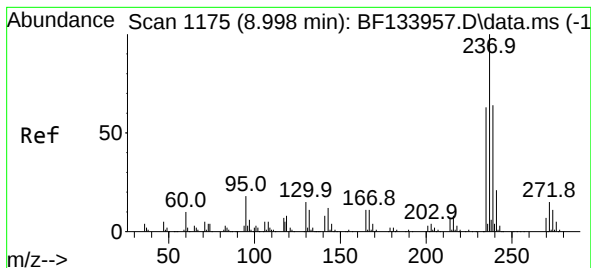
216 100

214 80.3 64.1 96.1

179 22.2 17.3 25.9

108 19.9 16.2 24.2





#41

Hexachlorocyclopentadiene

Concen: 35.856 ng

RT: 8.987 min Scan# 1173

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

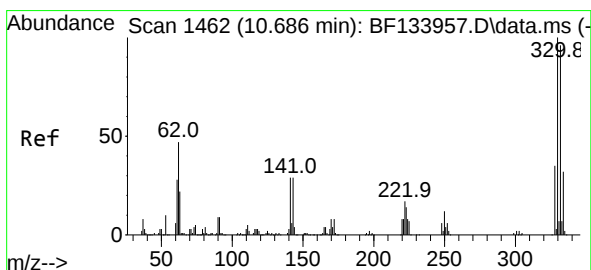
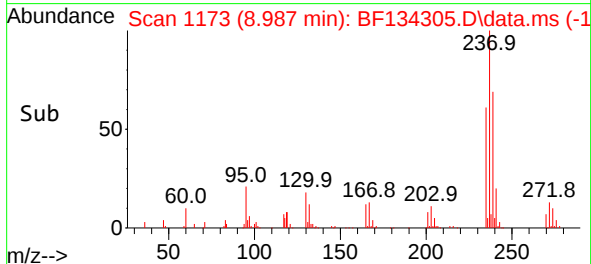
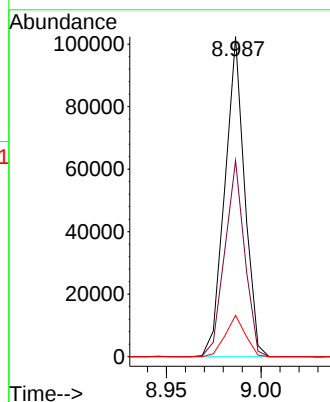
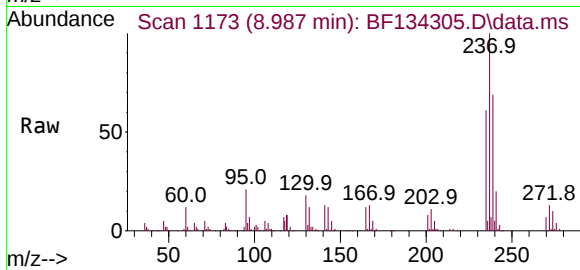
Tgt Ion:237 Resp: 74216

Ion Ratio Lower Upper

237 100

235 61.3 42.8 82.8

272 12.9 0.0 34.6



#42

2,4,6-Tribromophenol

Concen: 100.208 ng

RT: 10.681 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

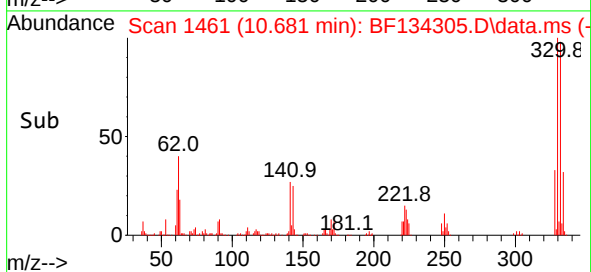
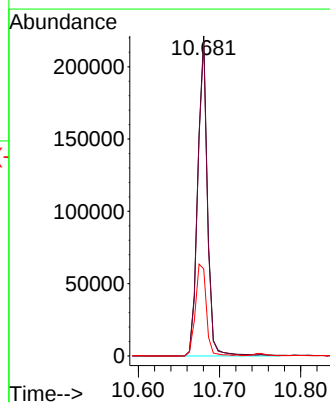
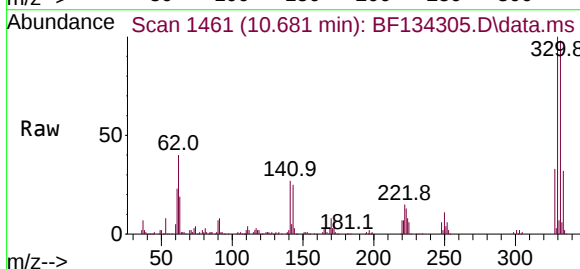
Tgt Ion:330 Resp: 185022

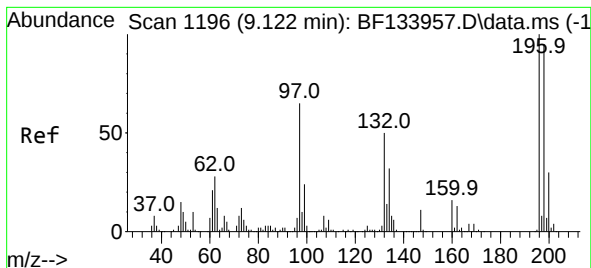
Ion Ratio Lower Upper

330 100

332 97.2 77.0 115.6

141 32.5 26.3 39.5





#43

2,4,6-Trichlorophenol

Concen: 43.463 ng

RT: 9.122 min Scan# 1196

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

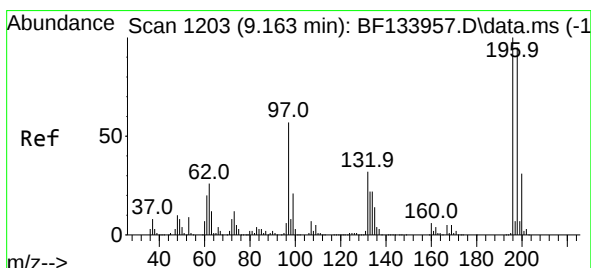
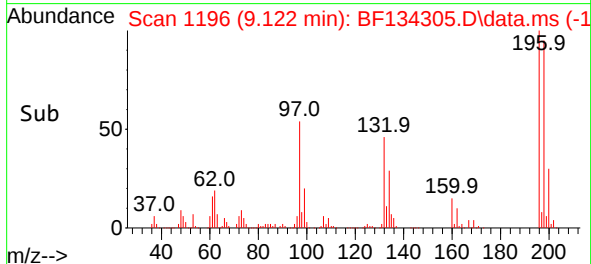
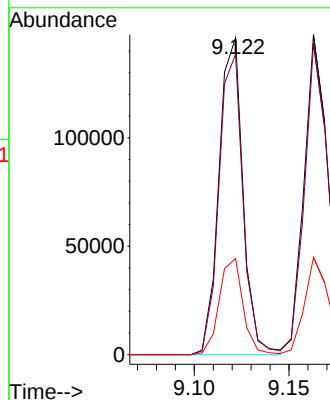
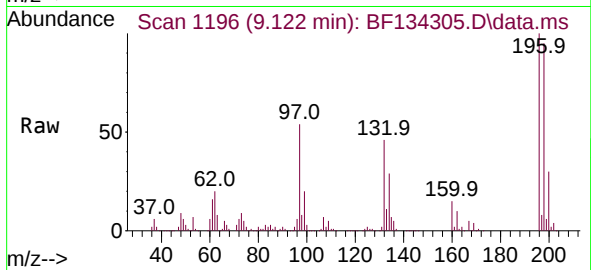
Tgt Ion:196 Resp: 129085

Ion Ratio Lower Upper

196 100

198 94.8 75.6 113.4

200 30.3 24.4 36.6



#44

2,4,5-Trichlorophenol

Concen: 39.555 ng

RT: 9.163 min Scan# 1203

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Tgt Ion:196 Resp: 138188

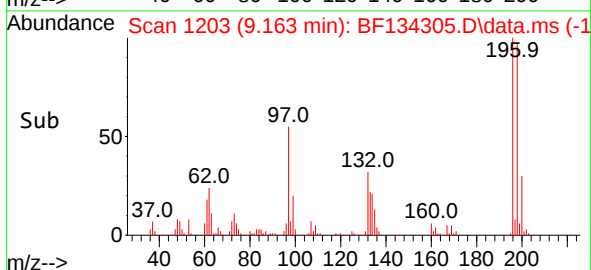
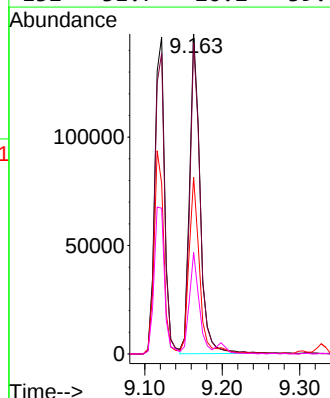
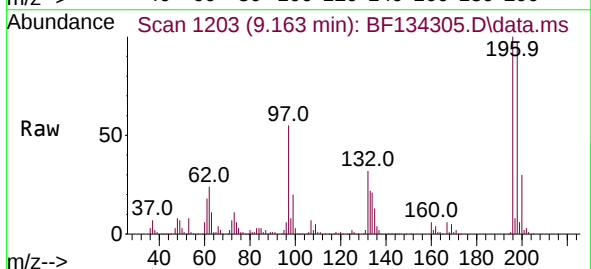
Ion Ratio Lower Upper

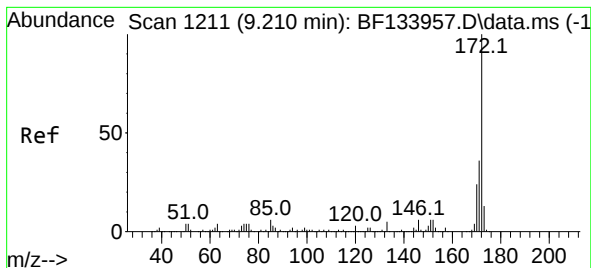
196 100

198 97.3 75.7 113.5

97 55.2 45.8 68.6

132 31.7 26.2 39.4





#45

2-Fluorobiphenyl

Concen: 69.403 ng

RT: 9.198 min Scan# 1209

Delta R.T. -0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

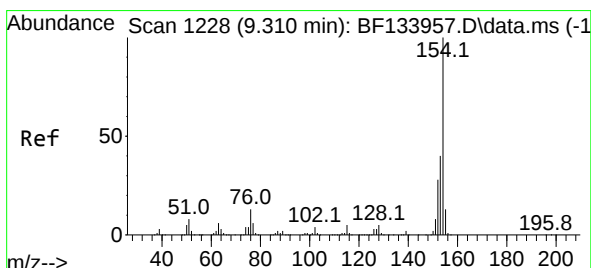
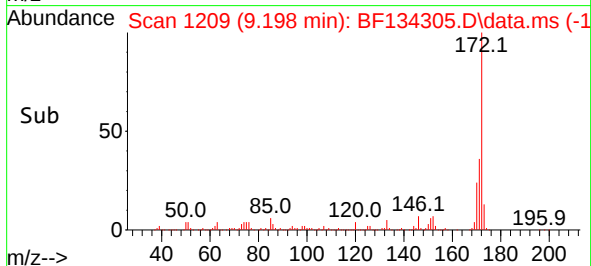
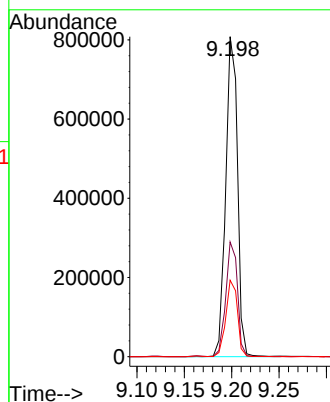
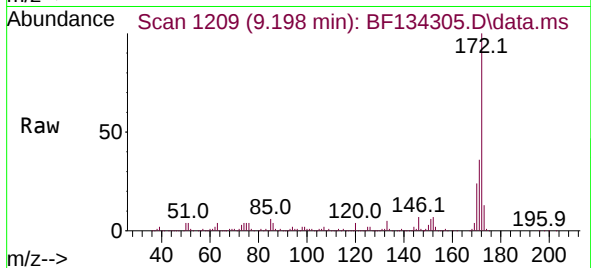
Tgt Ion:172 Resp: 702973

Ion Ratio Lower Upper

172 100

171 35.9 28.6 43.0

170 23.9 19.4 29.0



#46

1,1'-Biphenyl

Concen: 42.762 ng

RT: 9.304 min Scan# 1227

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

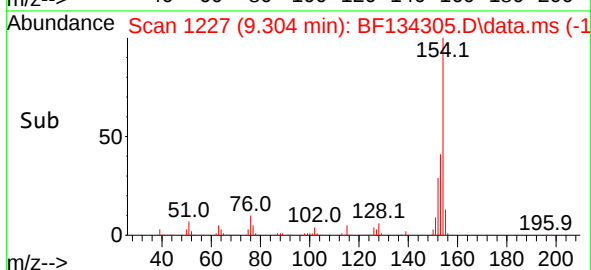
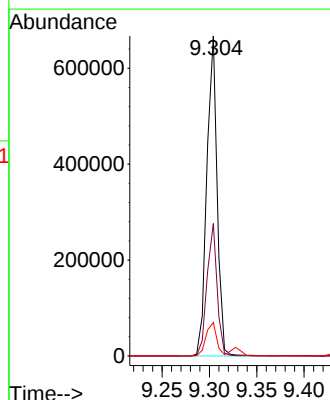
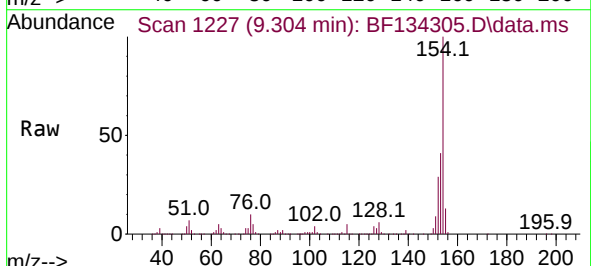
Tgt Ion:154 Resp: 505139

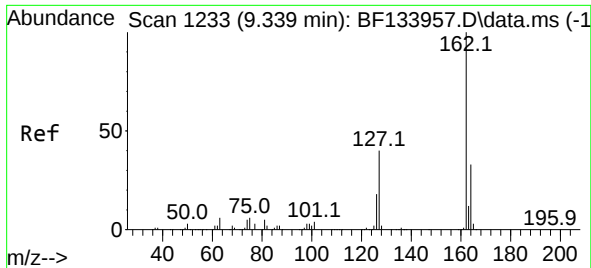
Ion Ratio Lower Upper

154 100

153 41.4 19.8 59.8

76 10.5 0.0 32.9

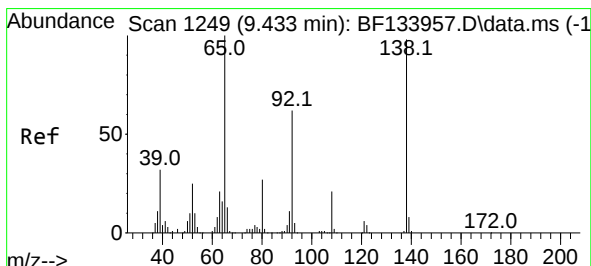
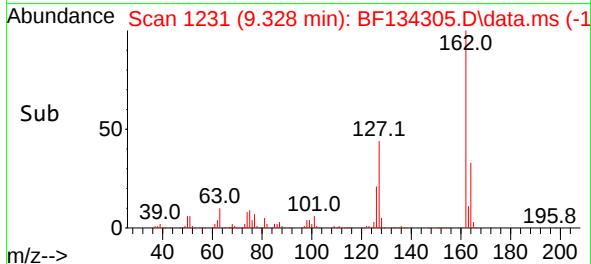
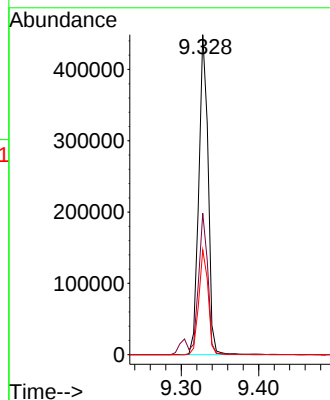
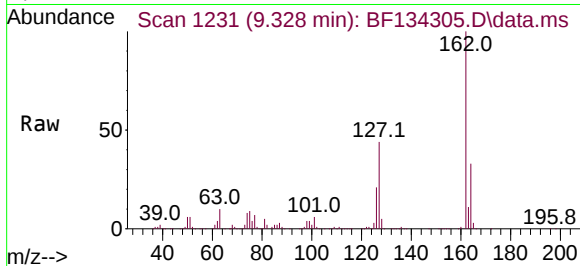




#47
2-Chloronaphthalene
Concen: 43.453 ng
RT: 9.328 min Scan# 1231
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

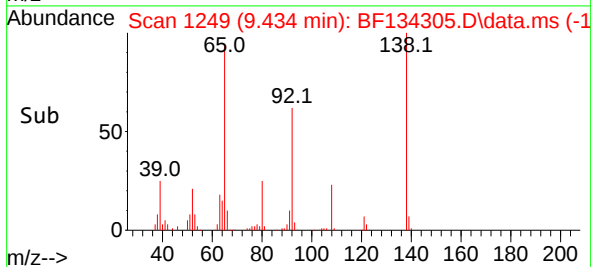
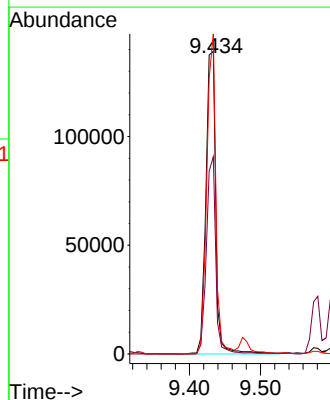
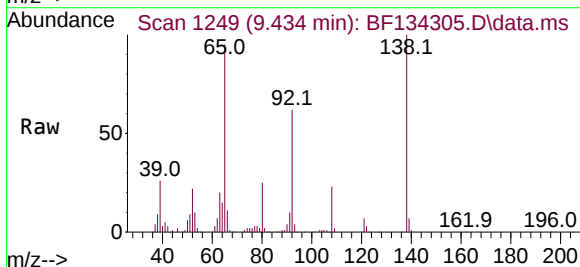
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:162 Resp: 375568
Ion Ratio Lower Upper
162 100
127 44.2 32.9 49.3
164 32.7 26.1 39.1



#48
2-Nitroaniline
Concen: 42.820 ng
RT: 9.434 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion: 65 Resp: 134881
Ion Ratio Lower Upper
65 100
92 65.1 49.5 74.3
138 105.7 78.0 117.0





#49

Acenaphthylene

Concen: 41.125 ng

RT: 9.745 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

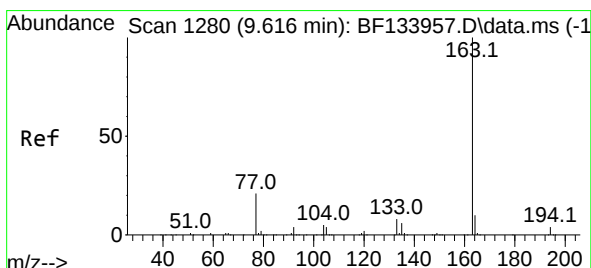
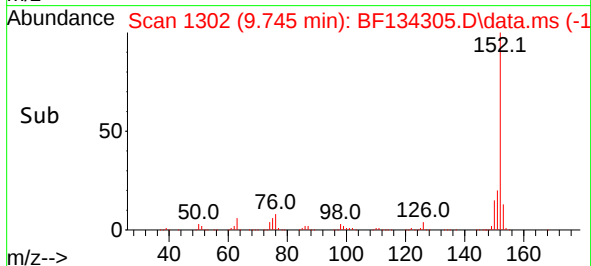
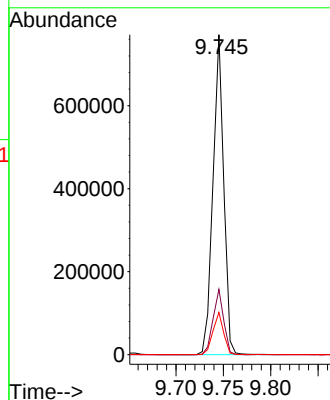
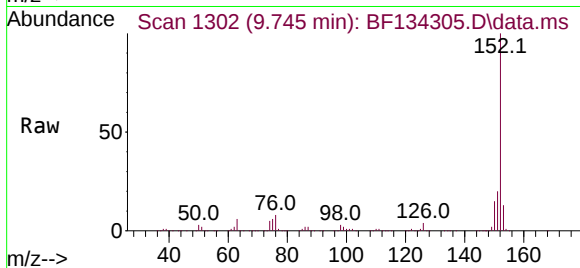
Tgt Ion:152 Resp: 607183

Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

153 13.2 10.8 16.2



#50

Dimethylphthalate

Concen: 42.648 ng

RT: 9.604 min Scan# 1278

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

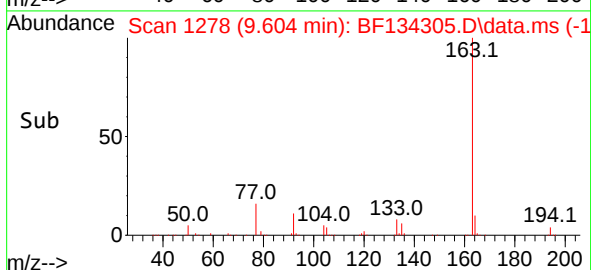
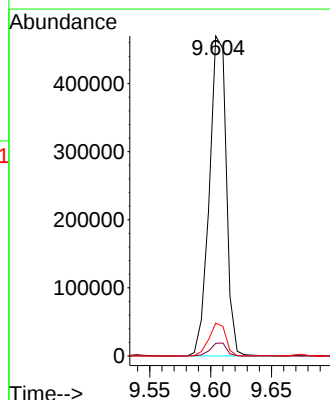
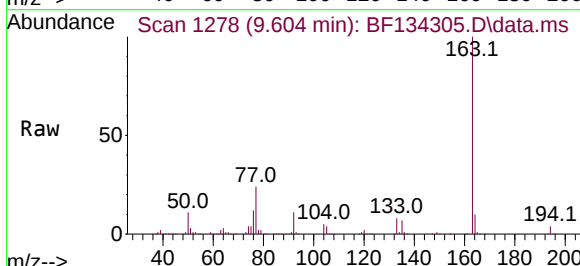
Tgt Ion:163 Resp: 455900

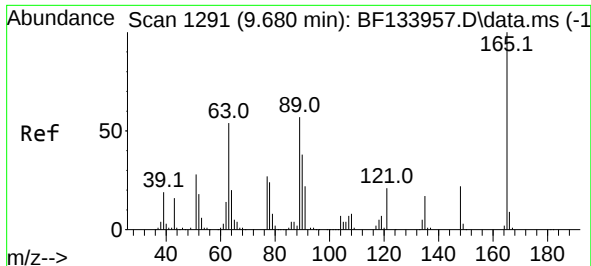
Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.6

164 10.2 8.2 12.2

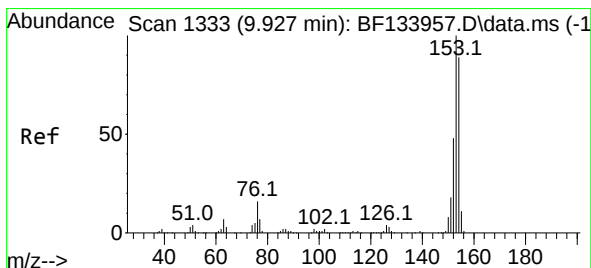
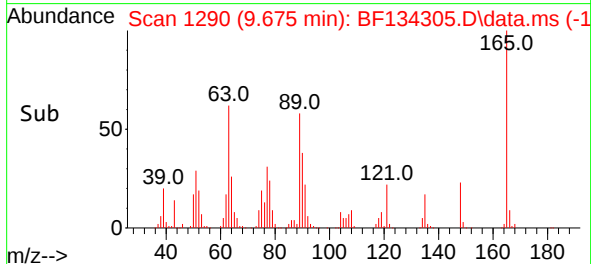
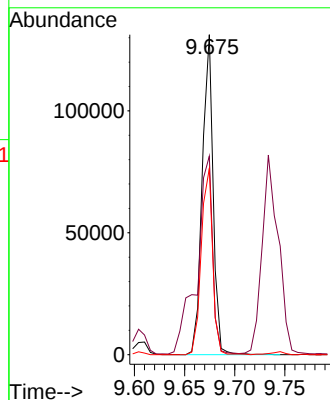
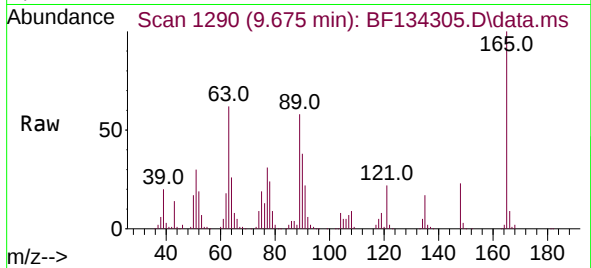




#51
2,6-Dinitrotoluene
Concen: 43.209 ng
RT: 9.675 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

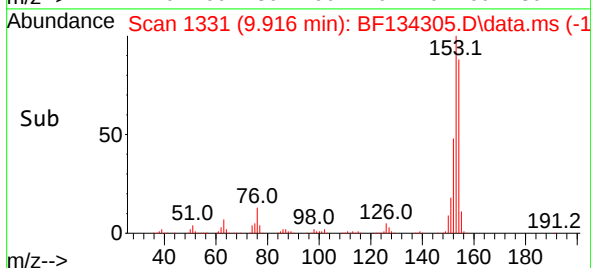
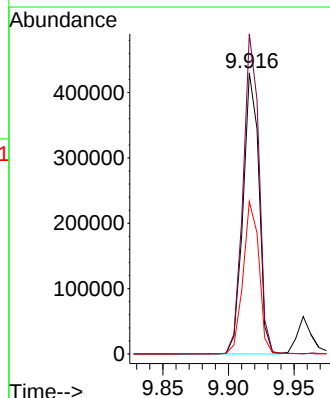
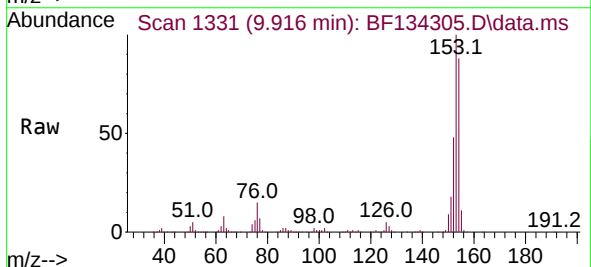
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

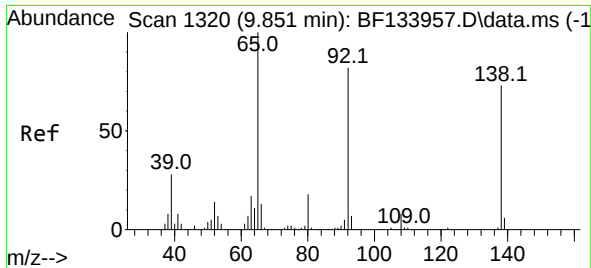
Tgt Ion:165 Resp: 99484
Ion Ratio Lower Upper
165 100
63 62.1 48.5 72.7
89 58.2 45.5 68.3



#52
Acenaphthene
Concen: 42.531 ng
RT: 9.916 min Scan# 1331
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:154 Resp: 364372
Ion Ratio Lower Upper
154 100
153 113.8 89.4 134.2
152 54.2 42.8 64.2

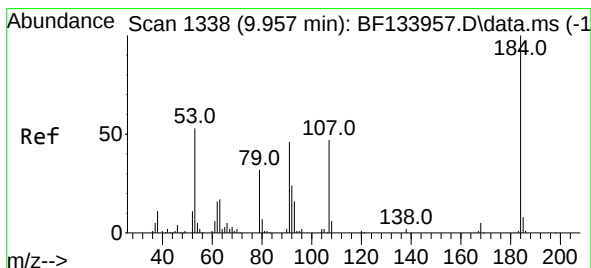
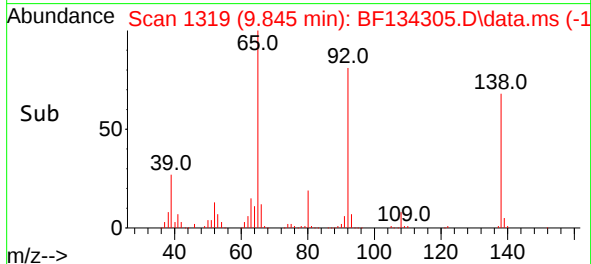
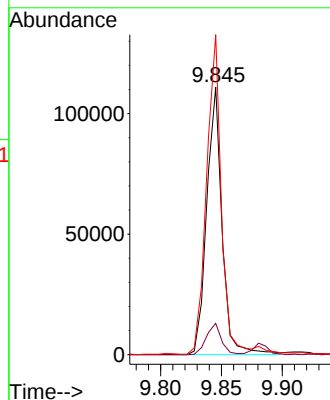
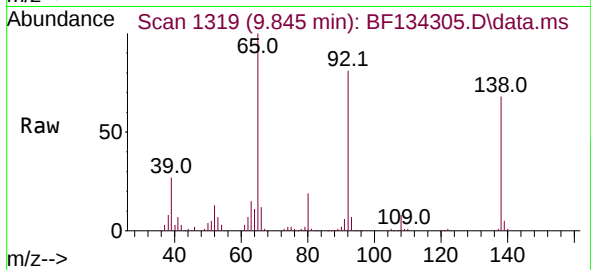




#53
3-Nitroaniline
Concen: 35.270 ng
RT: 9.845 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

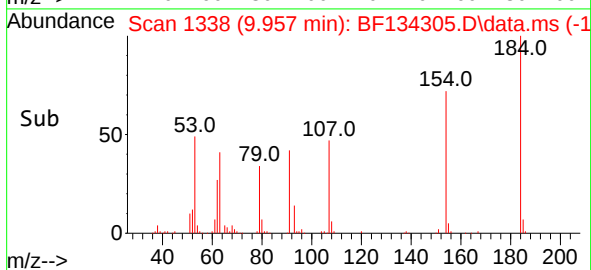
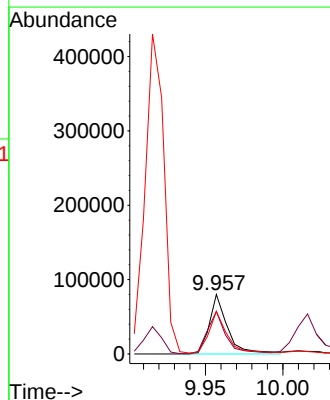
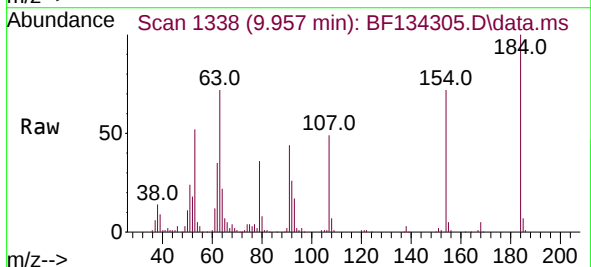
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

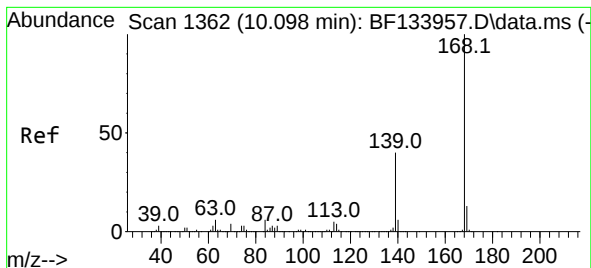
Tgt Ion:138 Resp: 97419
Ion Ratio Lower Upper
138 100
108 11.7 8.4 12.6
92 119.6 90.1 135.1



#54
2,4-Dinitrophenol
Concen: 50.810 ng
RT: 9.957 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:184 Resp: 65590
Ion Ratio Lower Upper
184 100
63 71.6 56.9 85.3
154 71.6 55.4 83.0

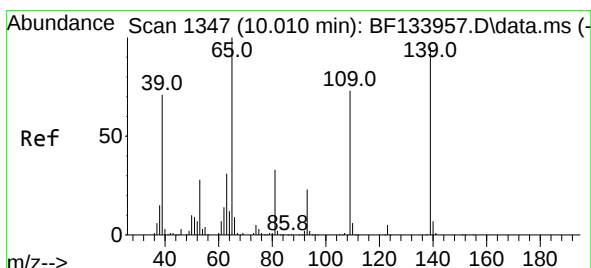
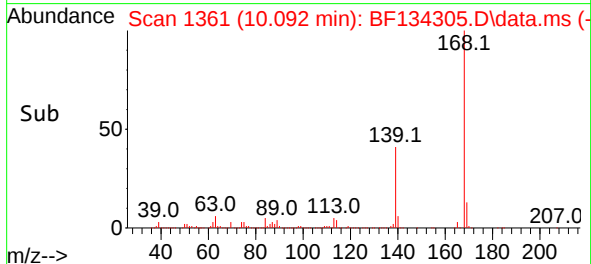
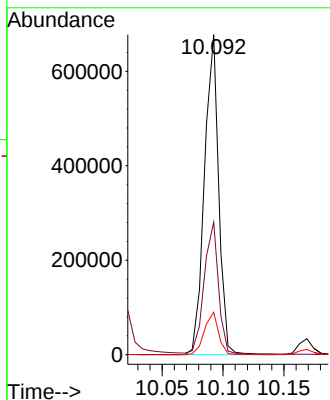
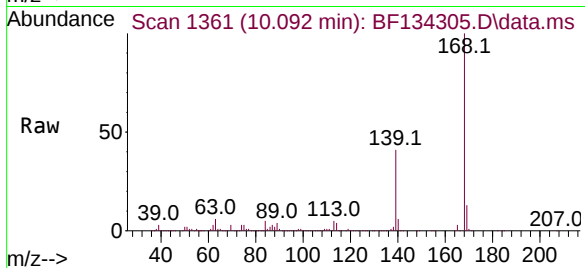




#55
Dibenzofuran
Concen: 41.247 ng
RT: 10.092 min Scan# 1361
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

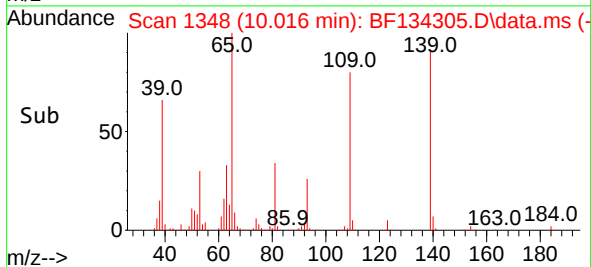
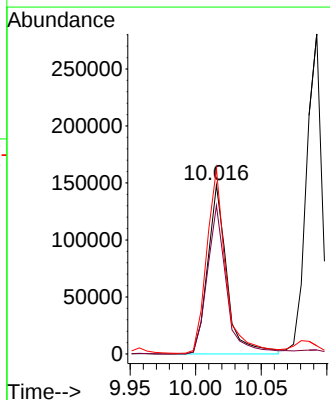
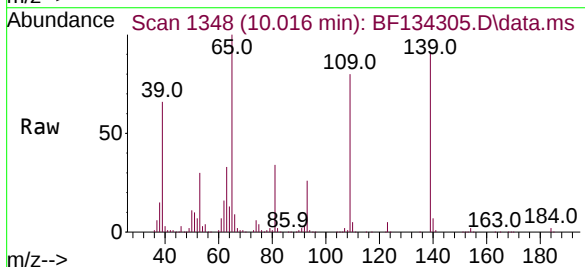
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

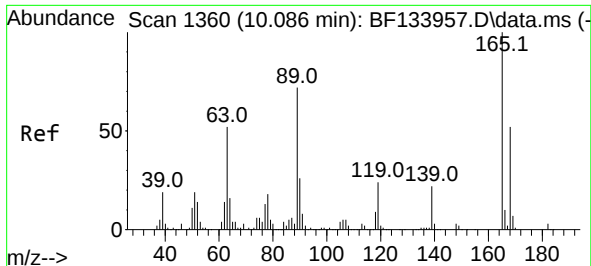
Tgt Ion:168 Resp: 552256
Ion Ratio Lower Upper
168 100
139 41.4 32.0 48.0
169 13.3 10.6 16.0



#56
4-Nitrophenol
Concen: 78.205 ng
RT: 10.016 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:139 Resp: 151097
Ion Ratio Lower Upper
139 100
109 87.9 56.8 96.8
65 109.7 86.1 126.1

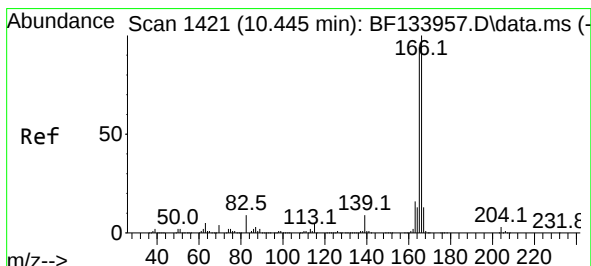
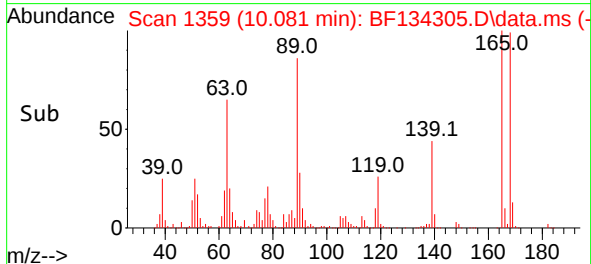
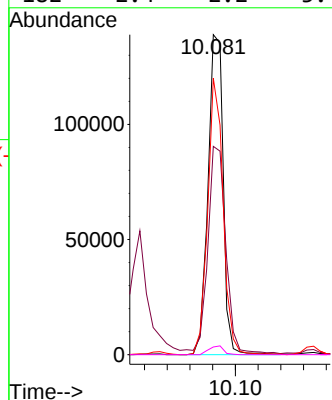
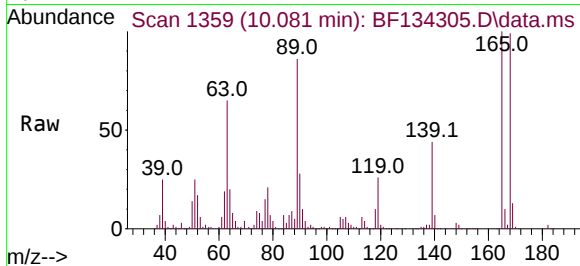




#57
2,4-Dinitrotoluene
Concen: 42.406 ng
RT: 10.081 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

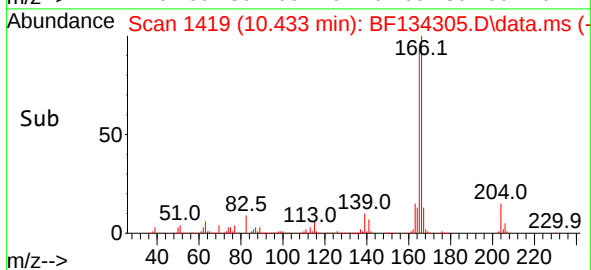
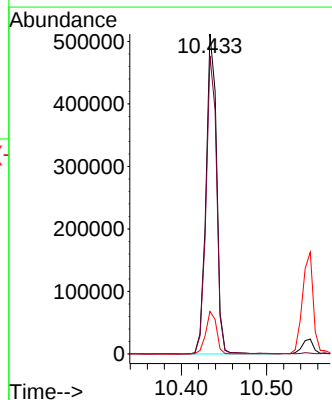
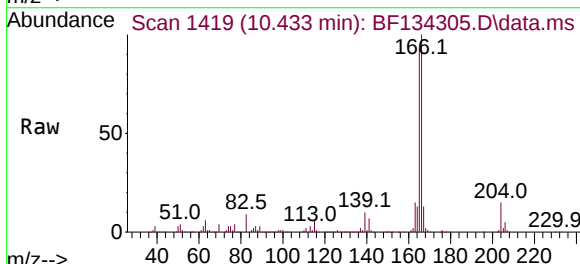
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

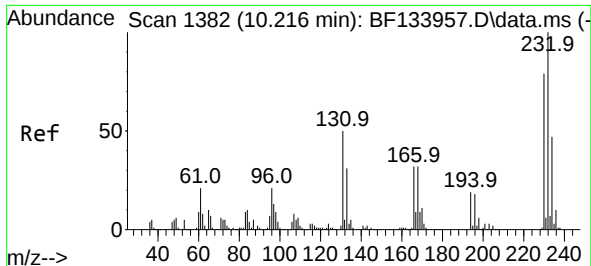
Tgt Ion:165 Resp: 128940
Ion Ratio Lower Upper
165 100
63 65.1 42.2 63.2#
89 86.4 57.4 86.2#
182 2.4 2.2 3.4



#58
Fluorene
Concen: 42.376 ng
RT: 10.433 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:166 Resp: 441414
Ion Ratio Lower Upper
166 100
165 93.1 75.0 112.4
167 13.3 10.6 15.8

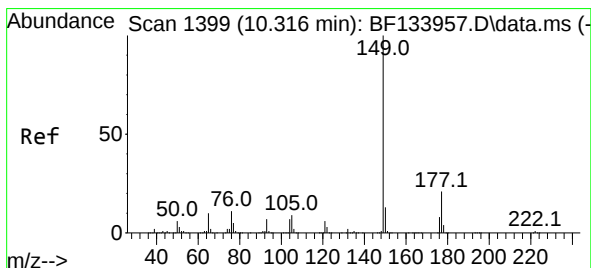
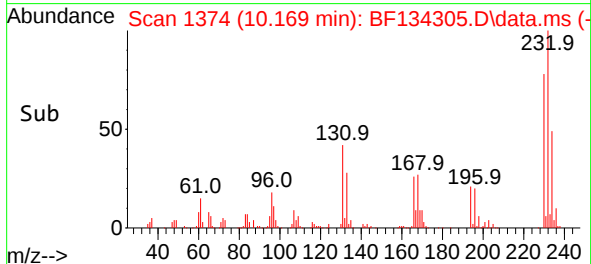
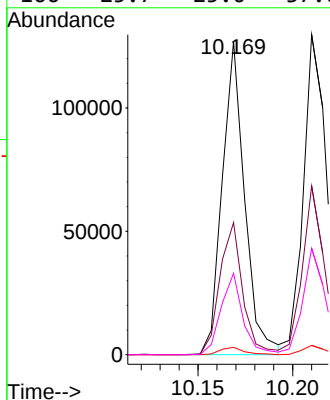
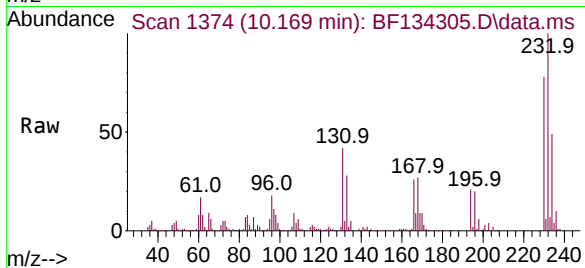




#59
2,3,4,6-Tetrachlorophenol
Concen: 37.921 ng
RT: 10.169 min Scan# 1374
Delta R.T. -0.041 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

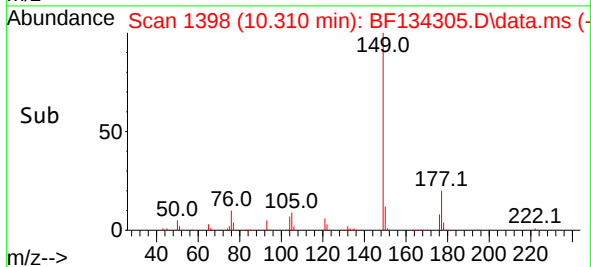
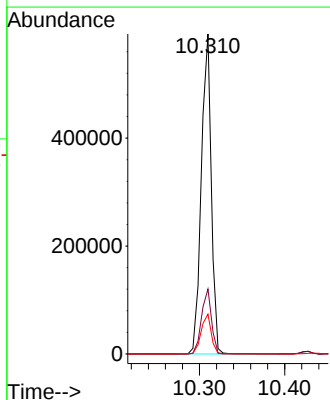
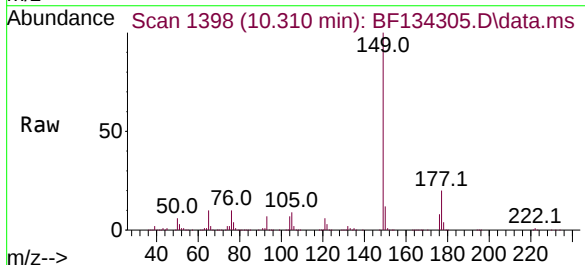
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

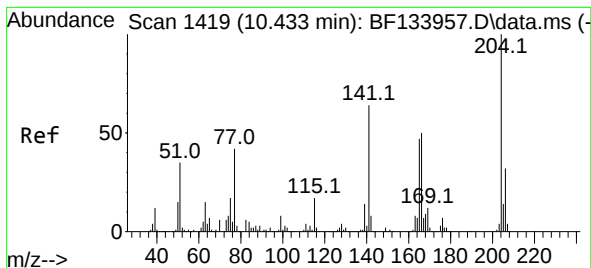
Tgt Ion:232 Resp: 104498
Ion Ratio Lower Upper
232 100
131 43.3 39.3 58.9
130 2.5 1.8 2.6
166 25.7 25.0 37.6



#60
Diethylphthalate
Concen: 43.235 ng
RT: 10.310 min Scan# 1398
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:149 Resp: 481515
Ion Ratio Lower Upper
149 100
177 20.3 17.0 25.6
150 12.4 10.2 15.2

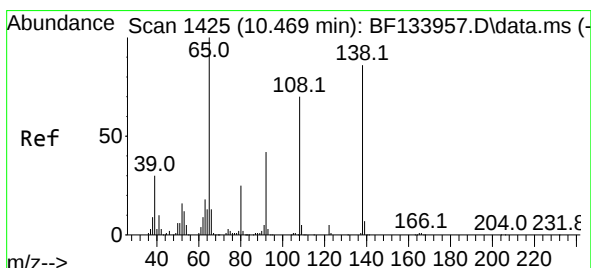
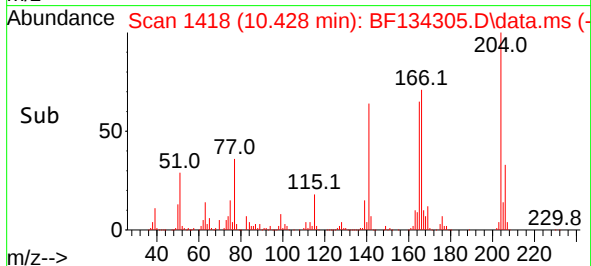
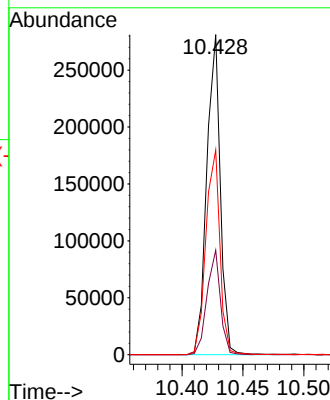
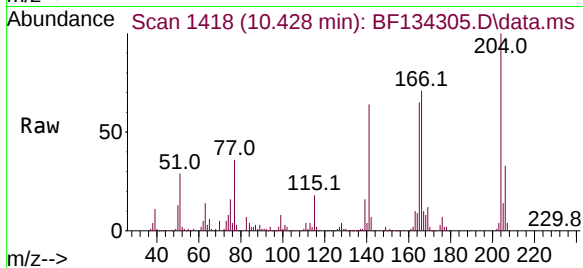




#61
4-Chlorophenyl-phenylether
Concen: 43.233 ng
RT: 10.428 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

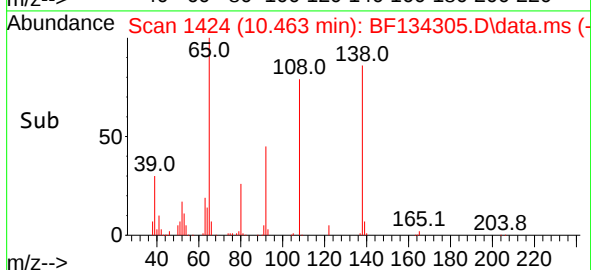
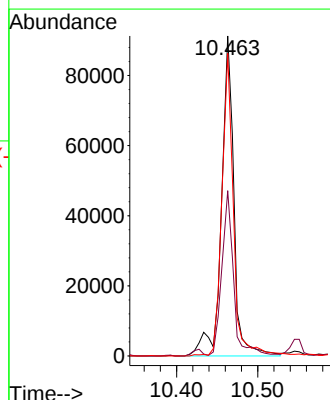
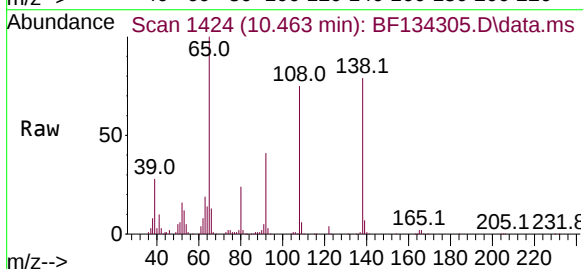
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

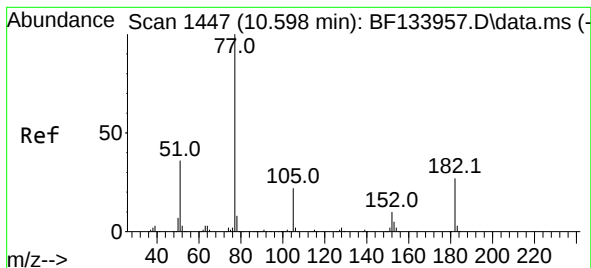
Tgt Ion:204 Resp: 217024
Ion Ratio Lower Upper
204 100
206 32.7 25.8 38.6
141 63.9 51.5 77.3



#62
4-Nitroaniline
Concen: 35.074 ng
RT: 10.463 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:138 Resp: 97634
Ion Ratio Lower Upper
138 100
92 51.7 29.7 69.7
108 94.6 62.1 102.1





#63

Azobenzene

Concen: 41.819 ng

RT: 10.586 min Scan# 1445

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

Tgt Ion: 77 Resp: 440552

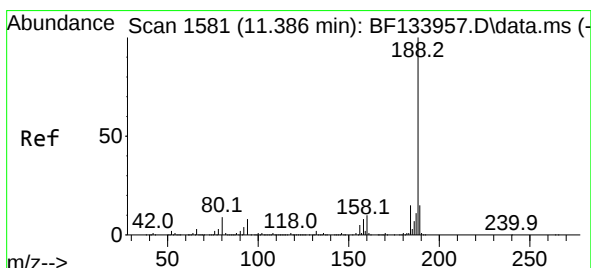
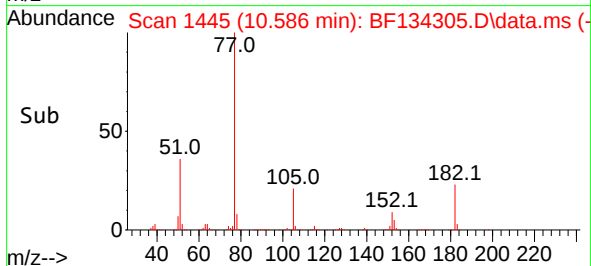
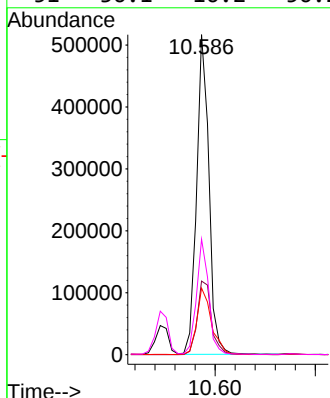
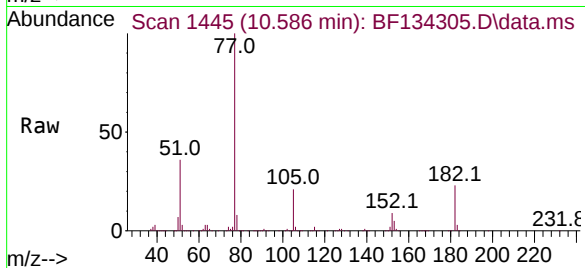
Ion Ratio Lower Upper

77 100

182 23.0 6.8 46.8

105 20.8 2.3 42.3

51 36.1 16.2 56.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.380 min Scan# 1580

Delta R.T. 0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

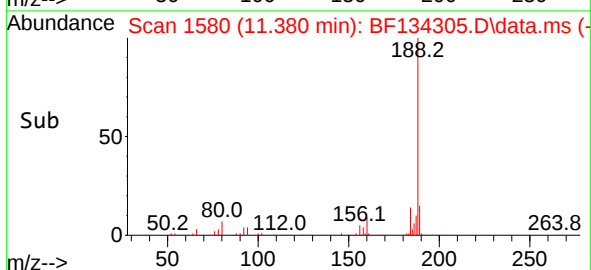
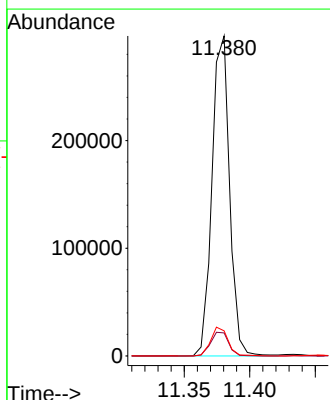
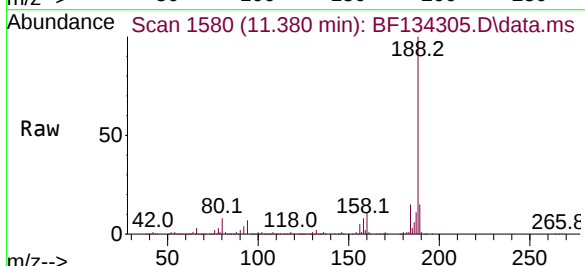
Tgt Ion: 188 Resp: 277047

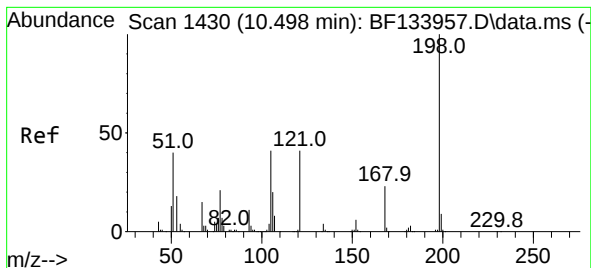
Ion Ratio Lower Upper

188 100

94 7.2 6.4 9.6

80 7.8 7.3 10.9

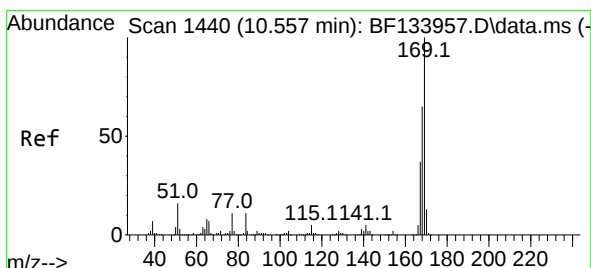
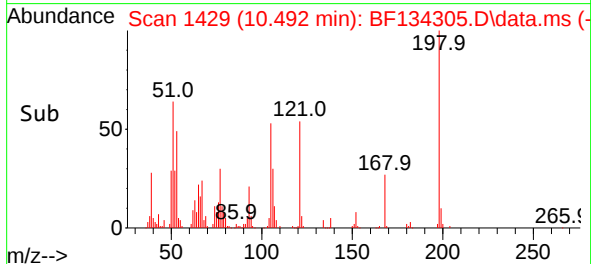
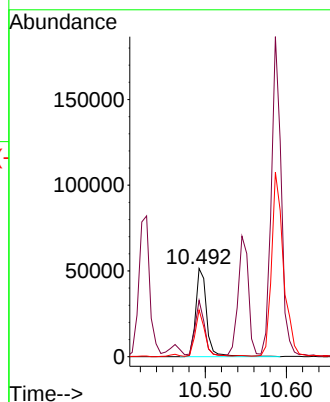
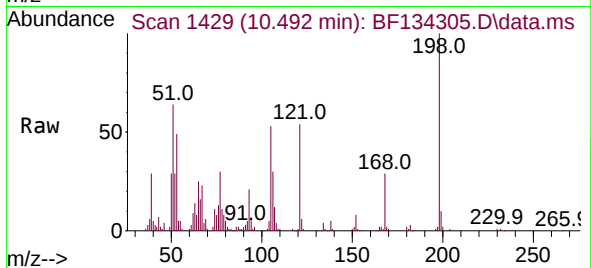




#65
4,6-Dinitro-2-methylphenol
Concen: 32.099 ng
RT: 10.492 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

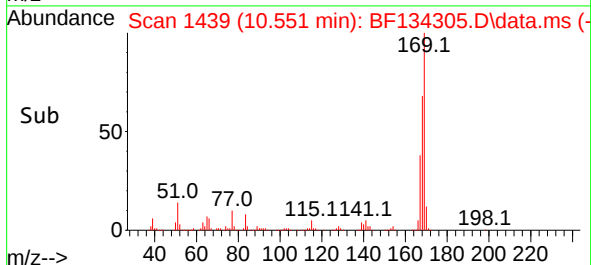
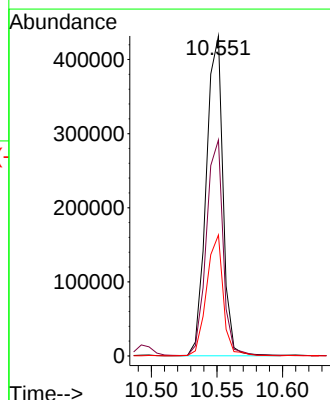
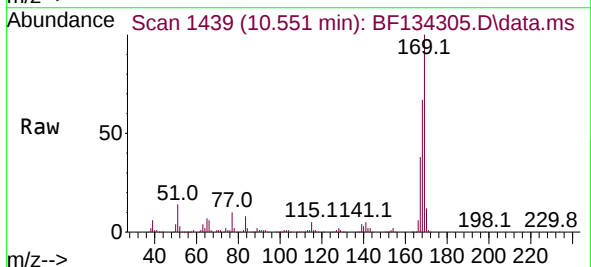
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

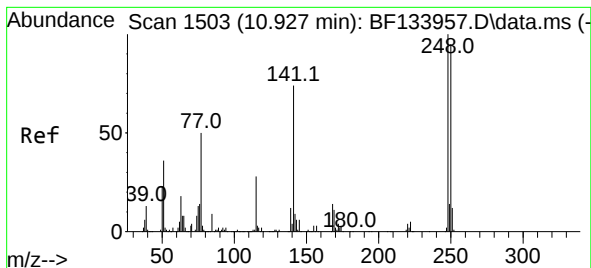
Tgt Ion:198 Resp: 48484
Ion Ratio Lower Upper
198 100
51 63.9 29.3 69.3
105 53.0 22.4 62.4



#66
n-Nitrosodiphenylamine
Concen: 43.409 ng
RT: 10.551 min Scan# 1439
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:169 Resp: 384246
Ion Ratio Lower Upper
169 100
168 67.5 52.3 78.5
167 37.8 29.4 44.0

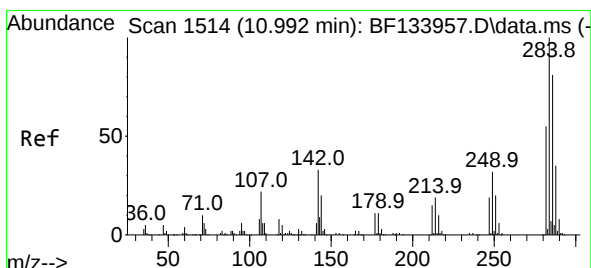
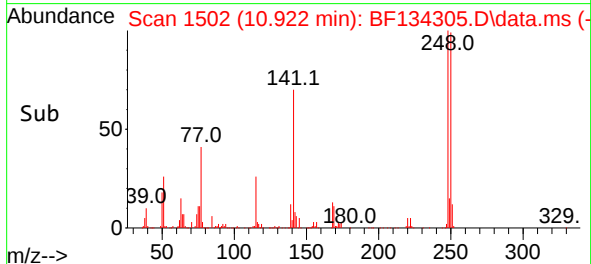
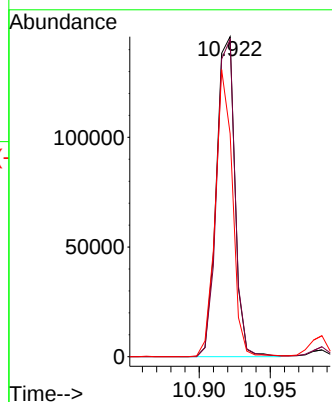
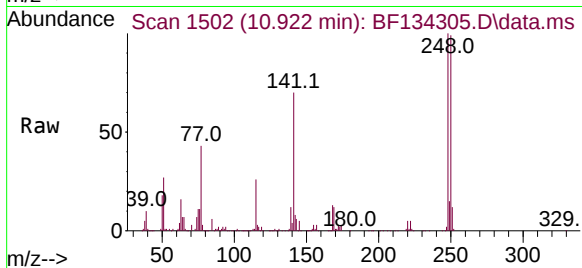




#67
4-Bromophenyl-phenylether
Concen: 44.703 ng
RT: 10.922 min Scan# 1502
Delta R.T. 0.006 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

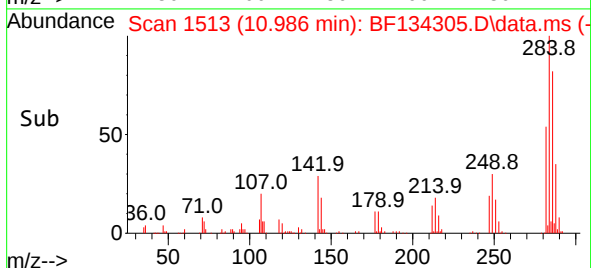
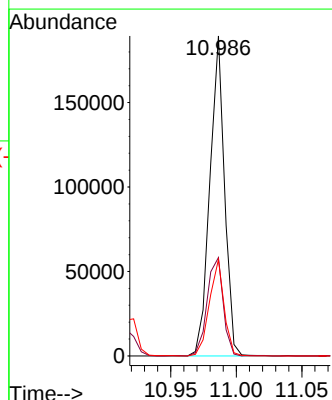
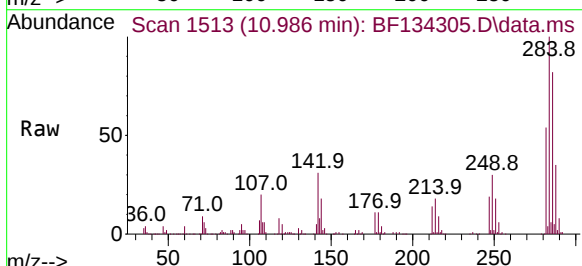
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

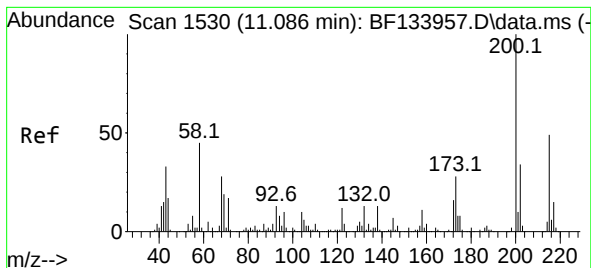
Tgt Ion:248 Resp: 131636
Ion Ratio Lower Upper
248 100
250 99.1 76.2 114.4
141 69.7 59.0 88.4



#68
Hexachlorobenzene
Concen: 47.306 ng
RT: 10.986 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:284 Resp: 147906
Ion Ratio Lower Upper
284 100
142 30.8 26.6 40.0
249 30.2 25.5 38.3





#69

Atrazine

Concen: 52.218 ng

RT: 11.081 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

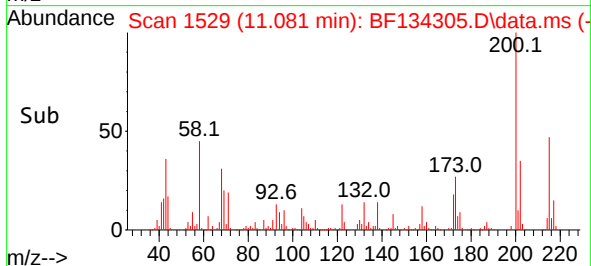
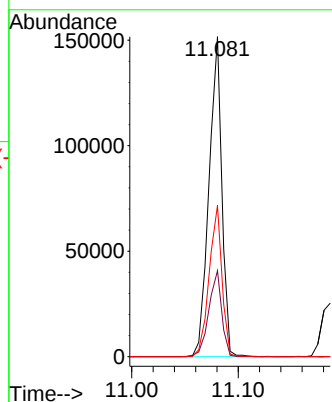
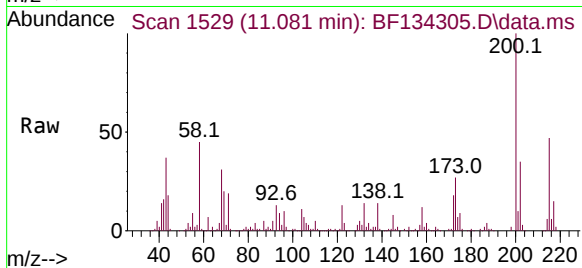
Tgt Ion:200 Resp: 127854

Ion Ratio Lower Upper

200 100

173 26.9 8.0 48.0

215 47.2 29.3 69.3



#70

Pentachlorophenol

Concen: 71.249 ng

RT: 11.186 min Scan# 1547

Delta R.T. 0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

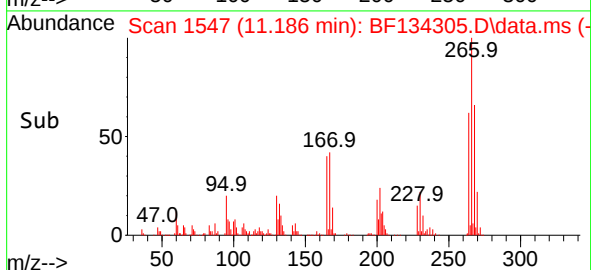
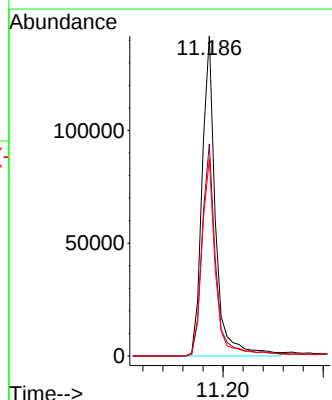
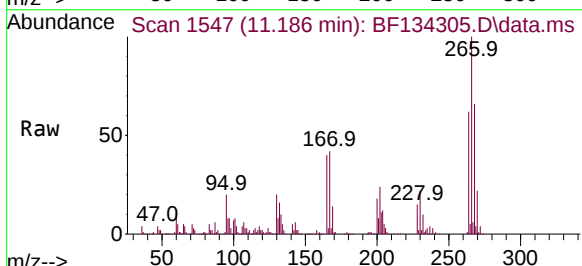
Tgt Ion:266 Resp: 133195

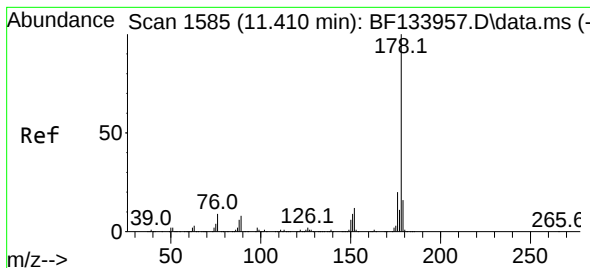
Ion Ratio Lower Upper

266 100

268 66.3 52.6 79.0

264 61.6 50.6 76.0





#71

Phenanthrene

Concen: 43.574 ng

RT: 11.404 min Scan# 1584

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

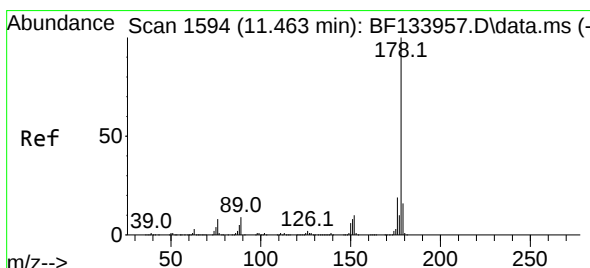
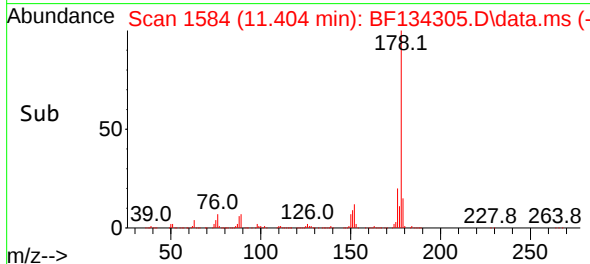
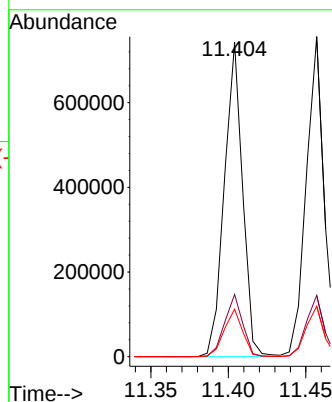
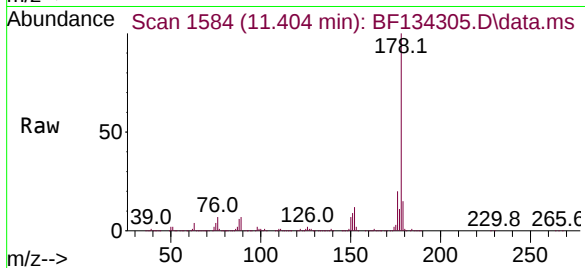
Tgt Ion:178 Resp: 607722

Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

179 15.1 12.4 18.6



#72

Anthracene

Concen: 41.813 ng

RT: 11.457 min Scan# 1593

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

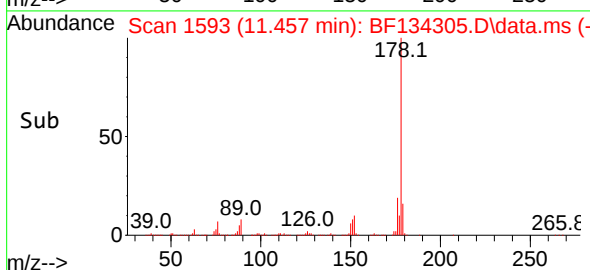
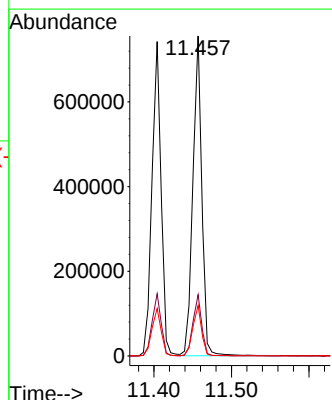
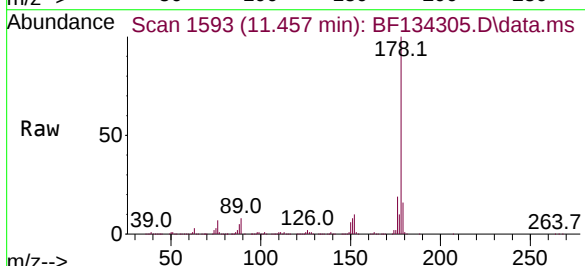
Tgt Ion:178 Resp: 606556

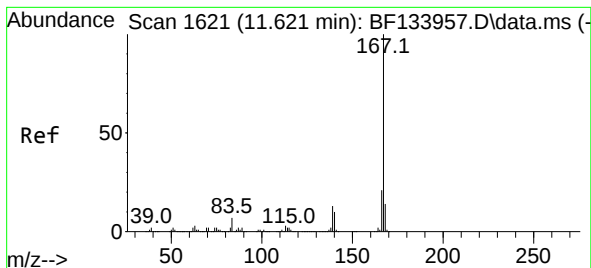
Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.7 12.4 18.6





#73

Carbazole

Concen: 42.629 ng

RT: 11.616 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

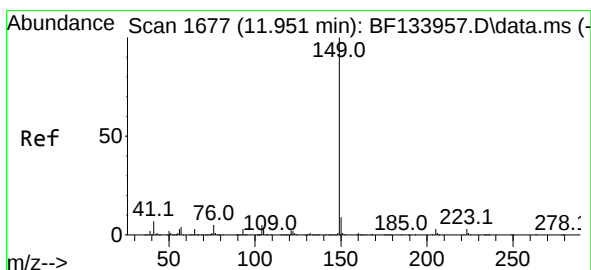
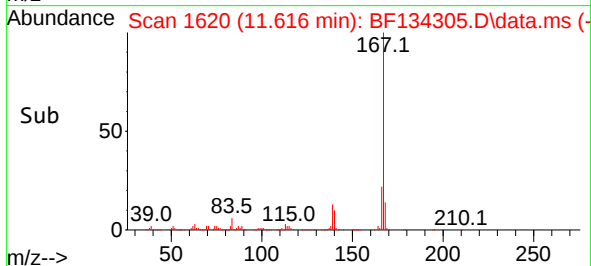
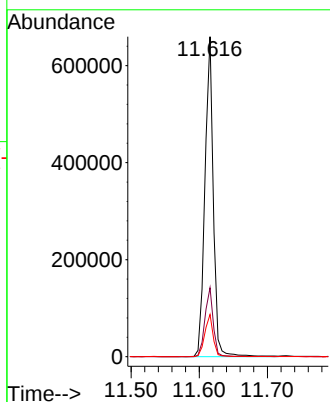
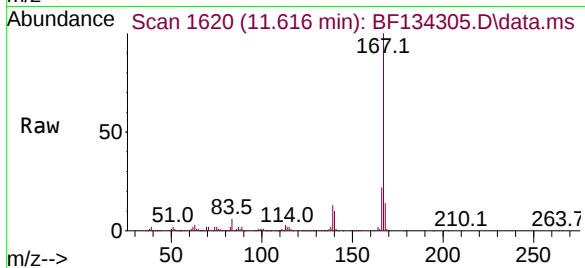
Tgt Ion:167 Resp: 566024

Ion Ratio Lower Upper

167 100

166 21.5 17.0 25.6

139 13.2 10.4 15.6



#74

Di-n-butylphthalate

Concen: 46.389 ng

RT: 11.939 min Scan# 1675

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

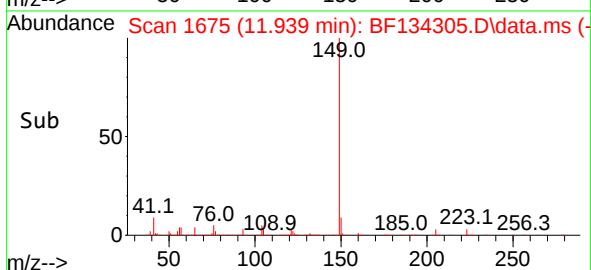
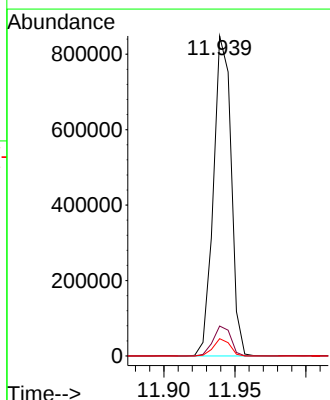
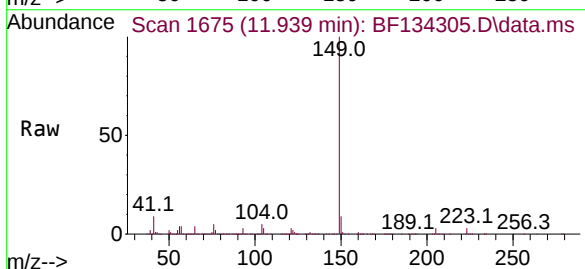
Tgt Ion:149 Resp: 732475

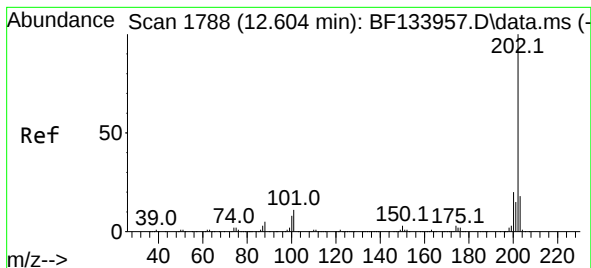
Ion Ratio Lower Upper

149 100

150 9.4 7.1 10.7

104 5.4 4.0 6.0





#75

Fluoranthene

Concen: 49.593 ng

RT: 12.604 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

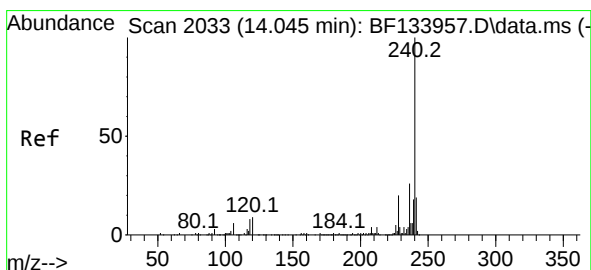
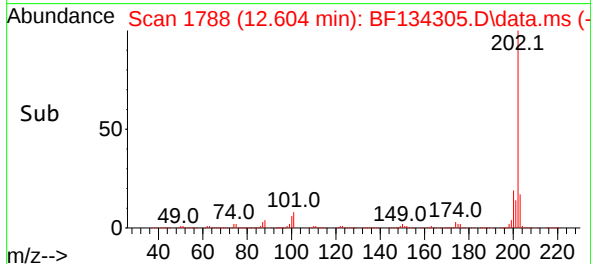
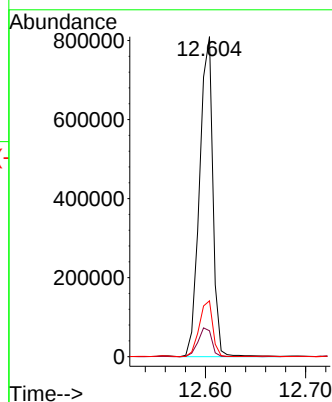
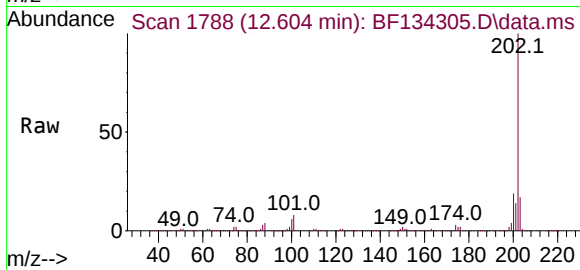
Tgt Ion:202 Resp: 747757

Ion Ratio Lower Upper

202 100

101 8.1 0.0 31.0

203 17.5 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

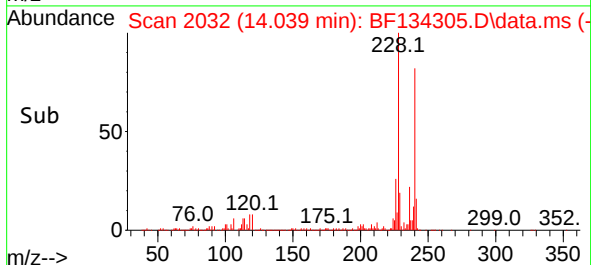
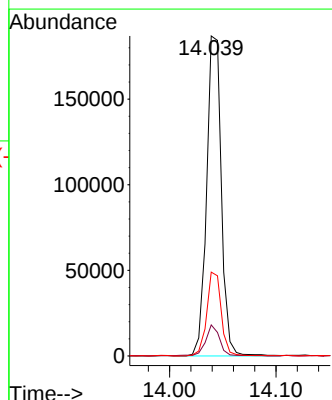
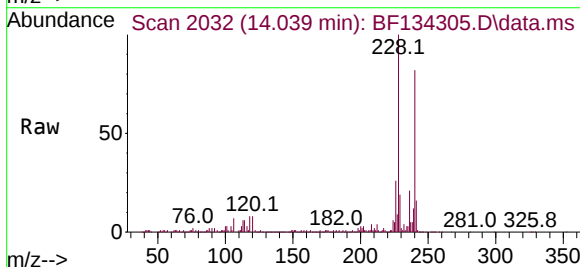
Tgt Ion:240 Resp: 180767

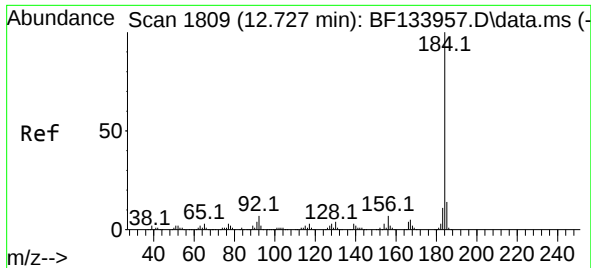
Ion Ratio Lower Upper

240 100

120 9.7 7.4 11.0

236 26.2 21.0 31.6

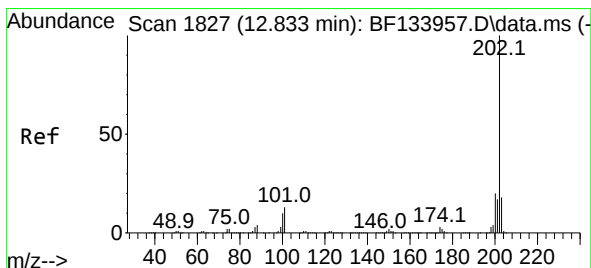
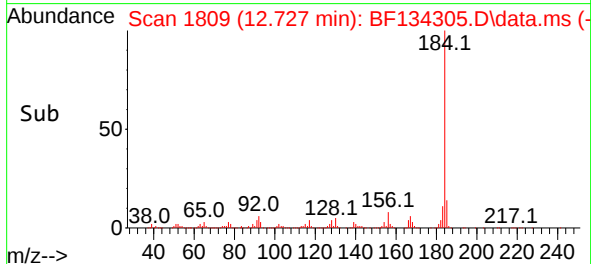
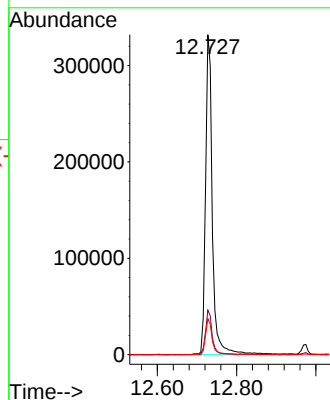
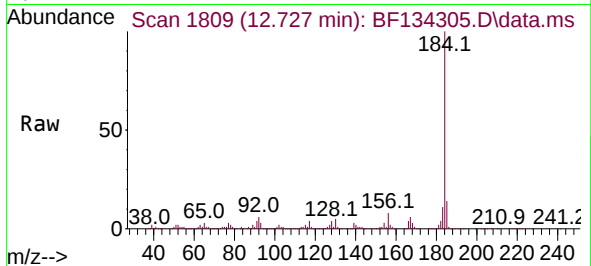




#77
Benzidine
Concen: 92.382 ng
RT: 12.727 min Scan# 1809
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

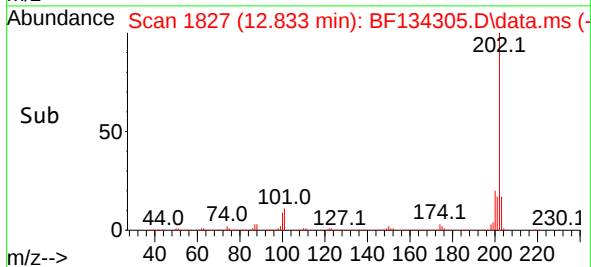
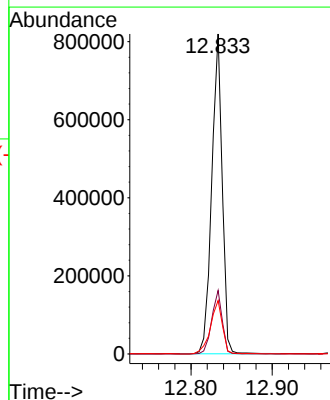
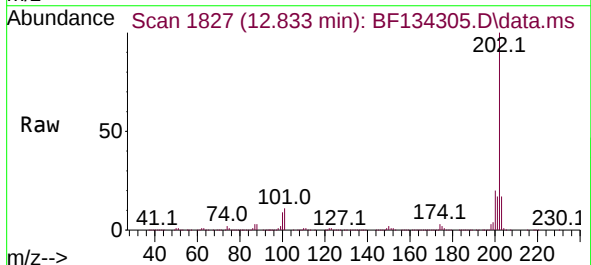
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

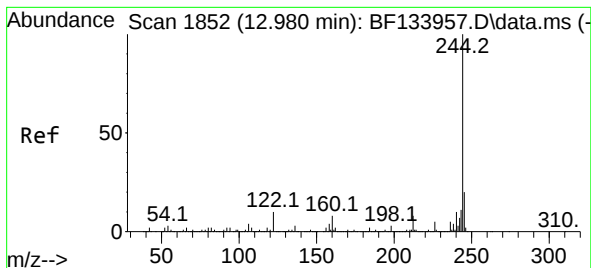
Tgt Ion:184 Resp: 397358
Ion Ratio Lower Upper
184 100
185 13.9 11.6 17.4
183 11.3 8.8 13.2



#78
Pyrene
Concen: 43.391 ng
RT: 12.833 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:202 Resp: 729962
Ion Ratio Lower Upper
202 100
200 19.8 16.1 24.1
203 16.7 14.3 21.5





#79

Terphenyl-d14

Concen: 62.545 ng

RT: 12.974 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

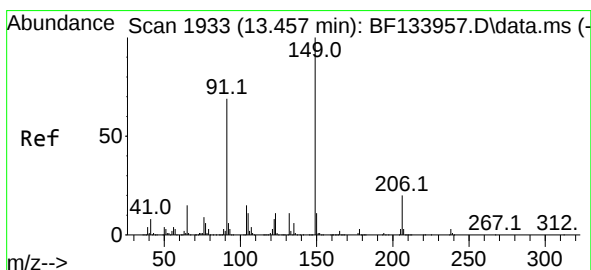
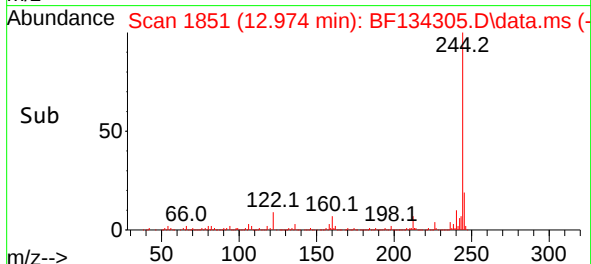
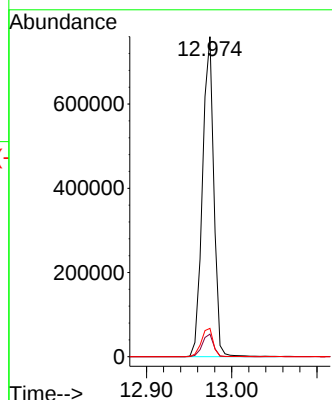
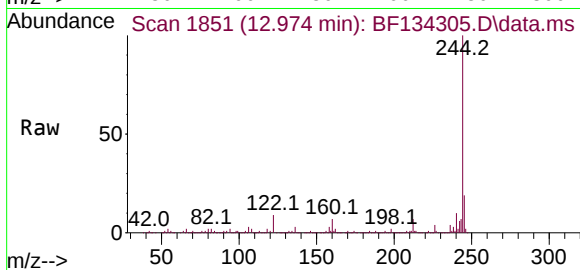
Tgt Ion:244 Resp: 702498

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

122 8.8 8.3 12.5



#80

Butylbenzylphthalate

Concen: 43.911 ng

RT: 13.451 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

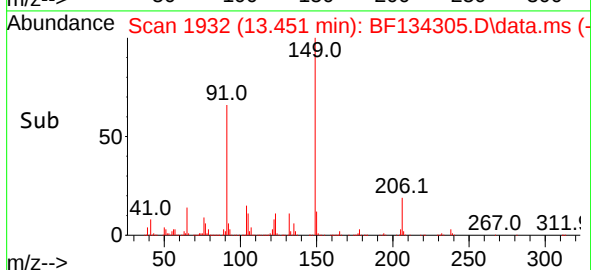
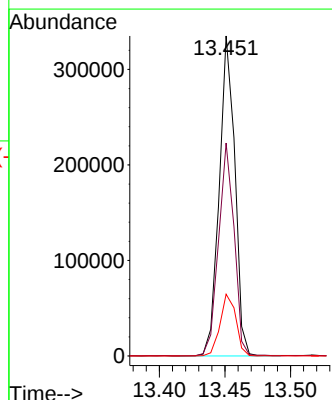
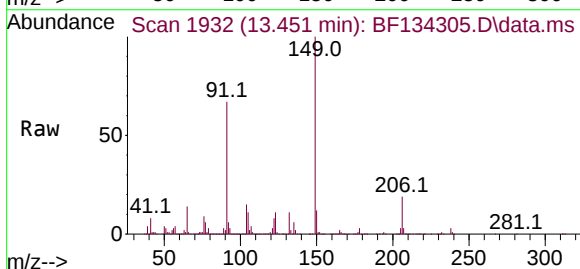
Tgt Ion:149 Resp: 277053

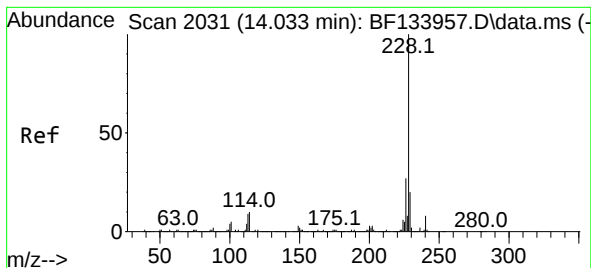
Ion Ratio Lower Upper

149 100

91 66.6 55.1 82.7

206 19.3 15.7 23.5





#81

Benzo(a)anthracene

Concen: 46.475 ng

RT: 14.033 min Scan# 2031

Delta R.T. 0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

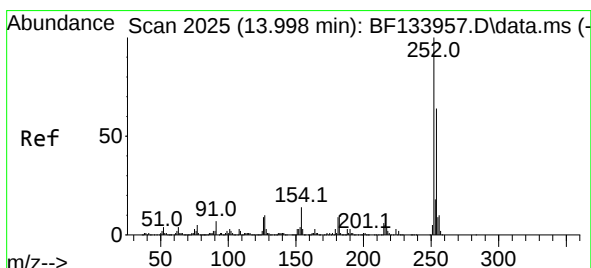
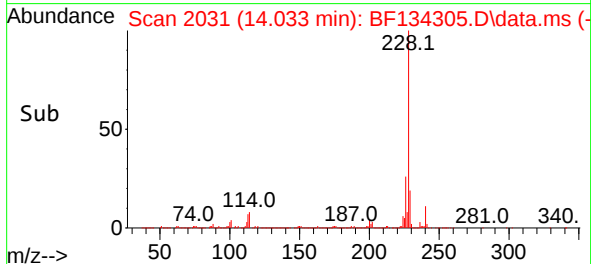
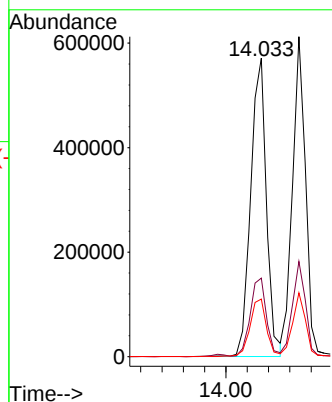
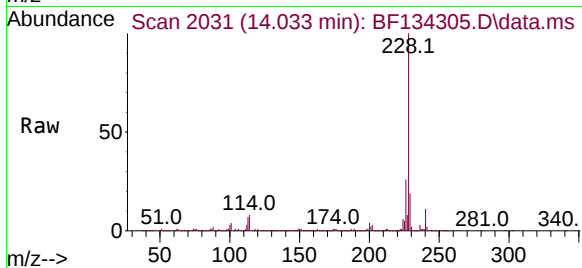
Tgt Ion:228 Resp: 582640

Ion Ratio Lower Upper

228 100

226 26.3 22.0 33.0

229 19.3 16.3 24.5



#82

3,3'-Dichlorobenzidine

Concen: 49.205 ng

RT: 13.992 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

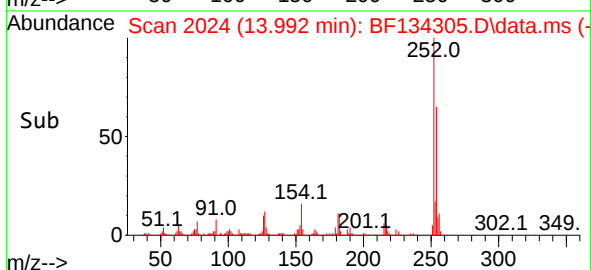
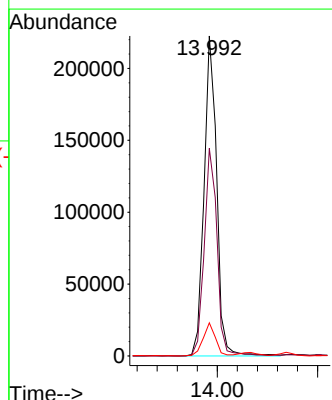
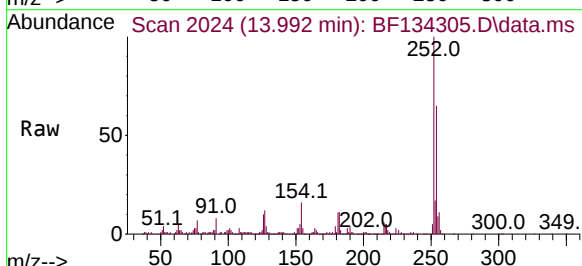
Tgt Ion:252 Resp: 195435

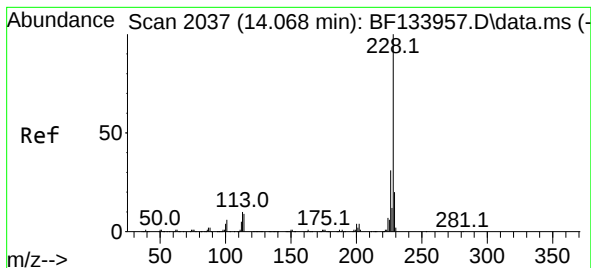
Ion Ratio Lower Upper

252 100

254 64.9 51.4 77.0

126 10.3 7.4 11.2





#83

Chrysene

Concen: 42.950 ng

RT: 14.069 min Scan# 2037

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

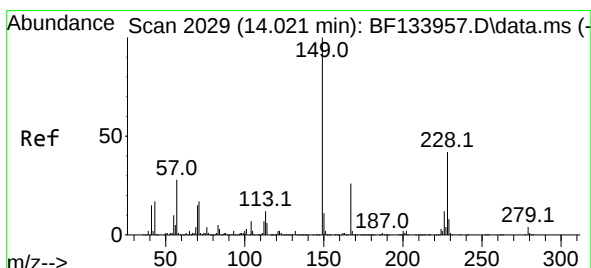
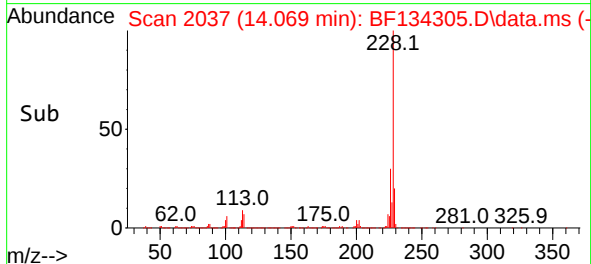
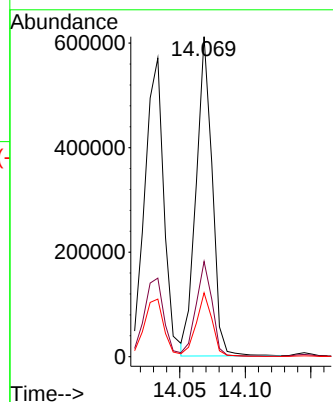
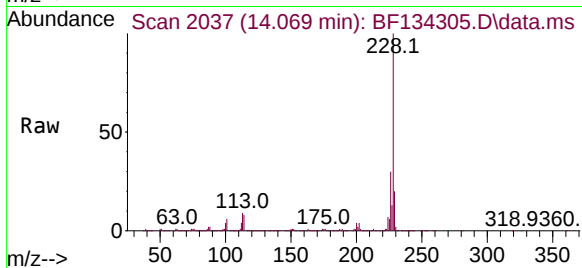
Tgt Ion:228 Resp: 521513

Ion Ratio Lower Upper

228 100

226 29.7 24.4 36.6

229 20.0 16.1 24.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 51.560 ng

RT: 14.016 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

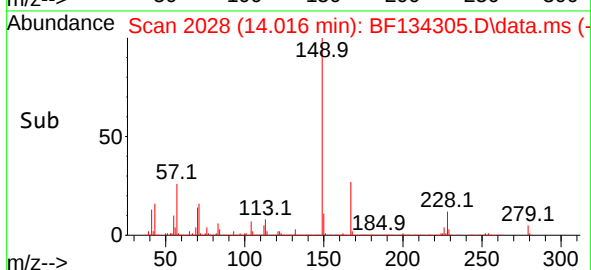
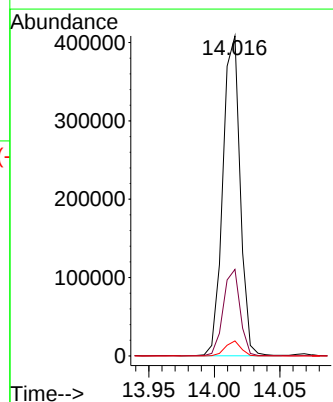
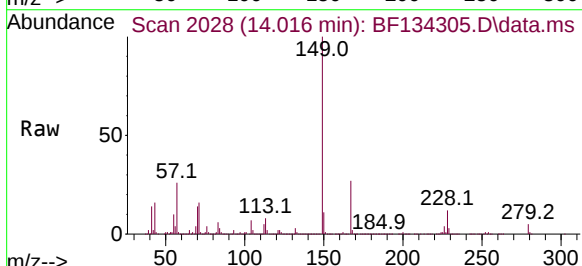
Tgt Ion:149 Resp: 373802

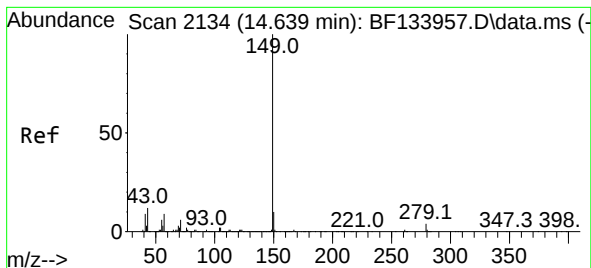
Ion Ratio Lower Upper

149 100

167 27.1 21.0 31.4

279 4.7 3.3 4.9





#85

Di-n-octyl phthalate

Concen: 57.698 ng

RT: 14.633 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

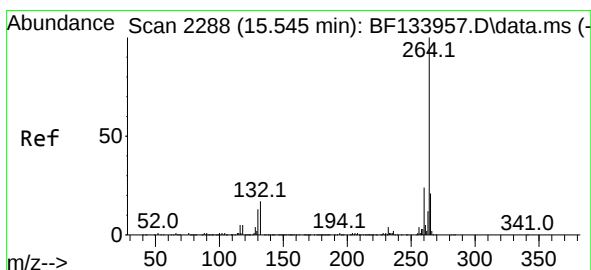
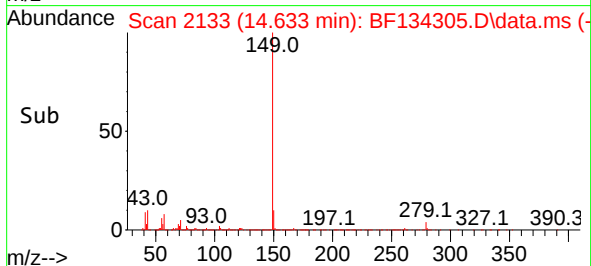
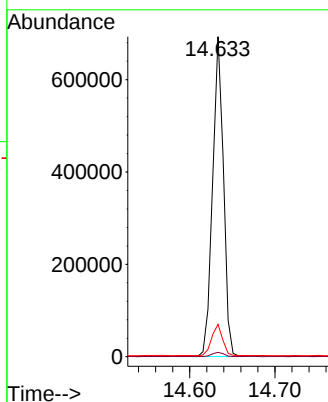
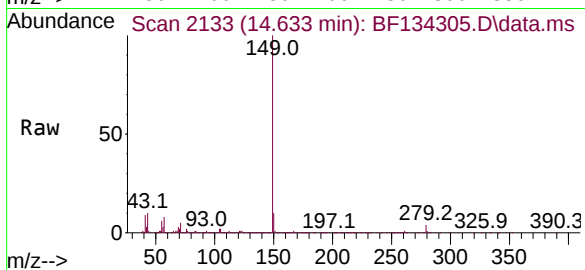
Tgt Ion:149 Resp: 614631

Ion Ratio Lower Upper

149 100

167 1.4 1.3 1.9

43 10.0 9.0 13.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2288

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

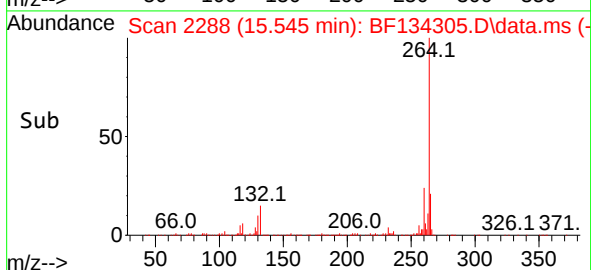
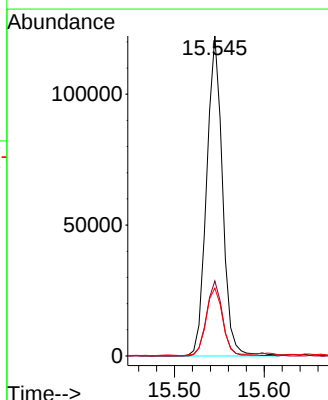
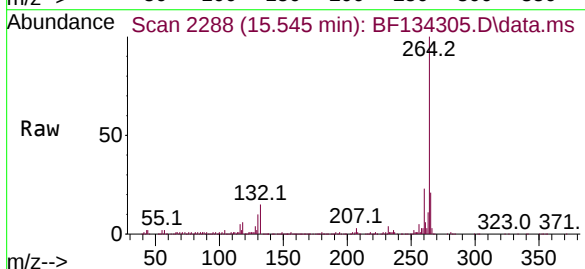
Tgt Ion:264 Resp: 150351

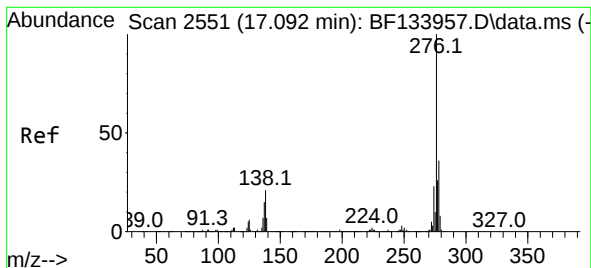
Ion Ratio Lower Upper

264 100

260 23.5 19.5 29.3

265 21.2 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 37.152 ng

RT: 17.098 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

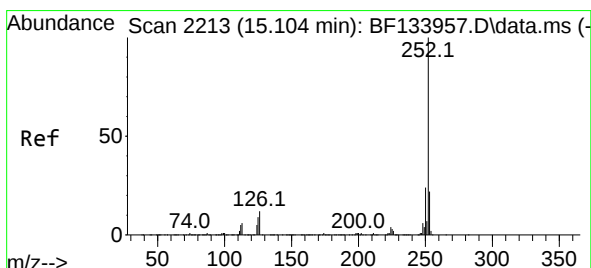
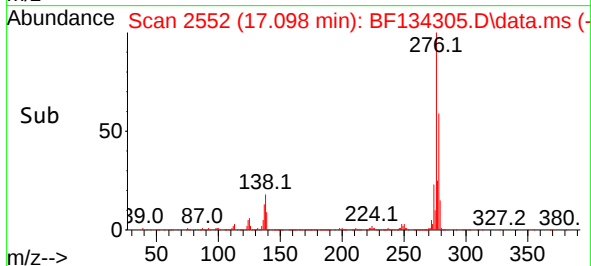
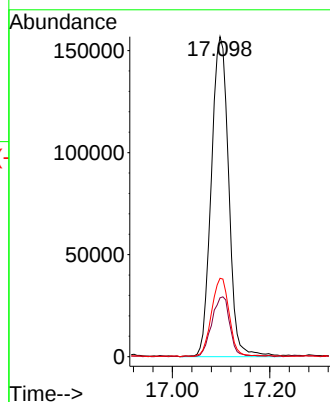
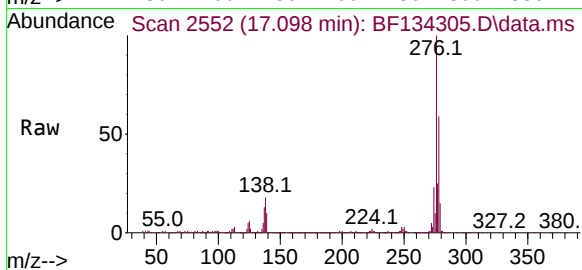
Tgt Ion:276 Resp: 387597

Ion Ratio Lower Upper

276 100

138 19.0 18.7 28.1

277 24.7 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 50.945 ng

RT: 15.104 min Scan# 2213

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

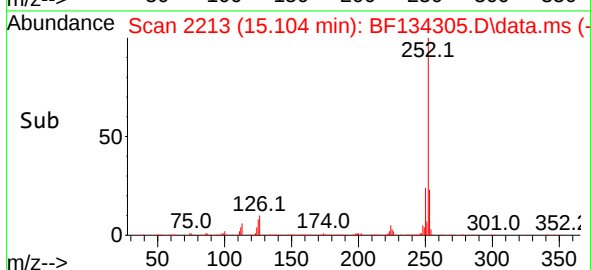
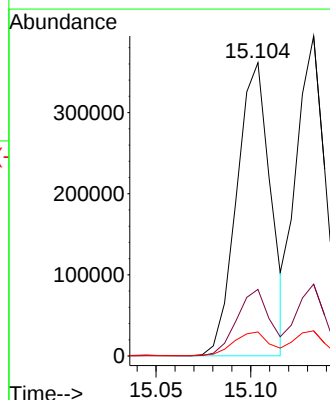
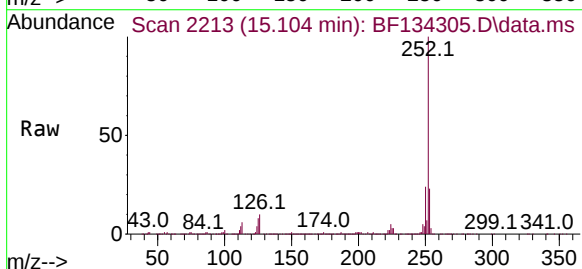
Tgt Ion:252 Resp: 450396

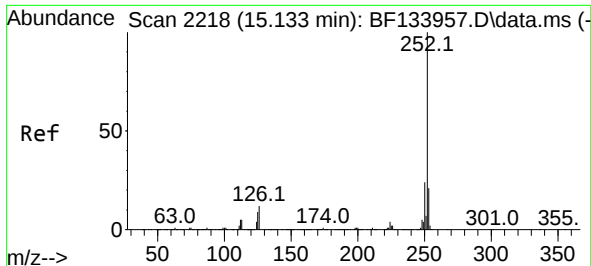
Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 8.2 7.1 10.7





#89

Benzo(k)fluoranthene

Concen: 46.618 ng

RT: 15.133 min Scan# 2218

Delta R.T. 0.000 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

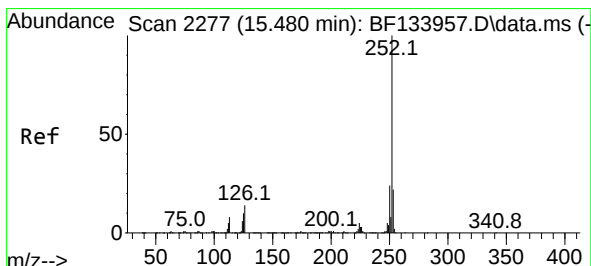
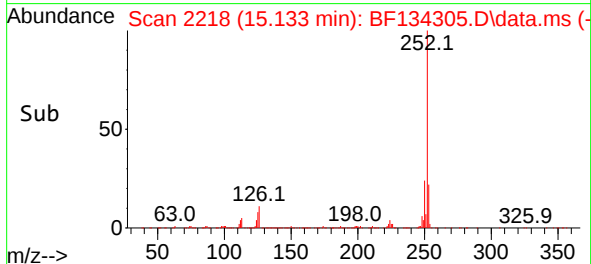
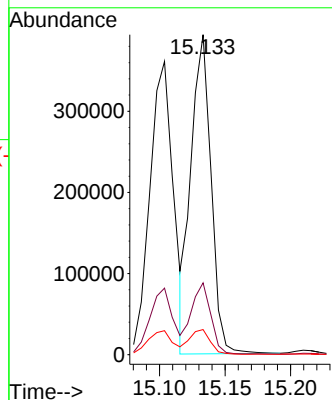
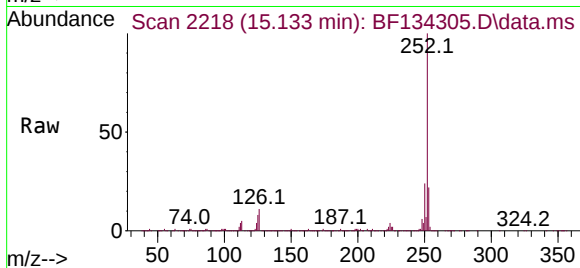
Tgt Ion:252 Resp: 419621

Ion Ratio Lower Upper

252 100

253 22.5 16.9 25.3

125 7.9 7.4 11.2



#90

Benzo(a)pyrene

Concen: 42.115 ng

RT: 15.486 min Scan# 2278

Delta R.T. 0.006 min

Lab File: BF134305.D

Acq: 14 Jul 2023 23:48

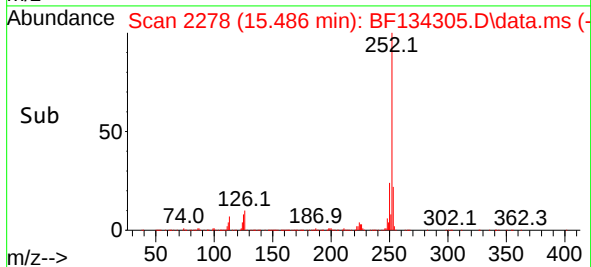
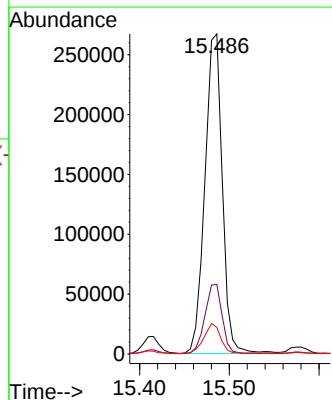
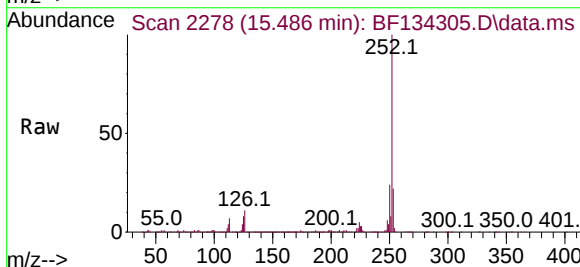
Tgt Ion:252 Resp: 360040

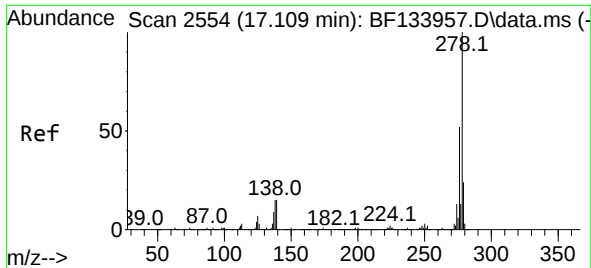
Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.0

125 8.3 8.4 12.6#

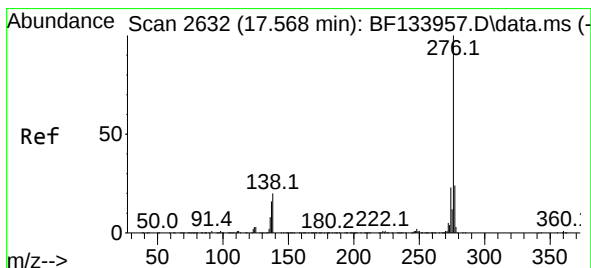
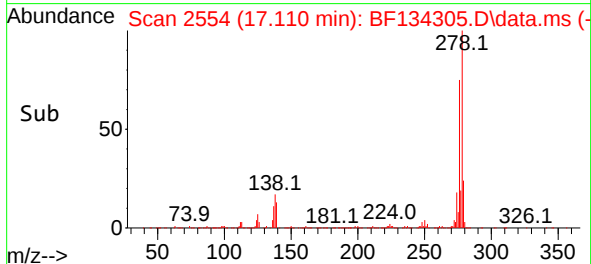
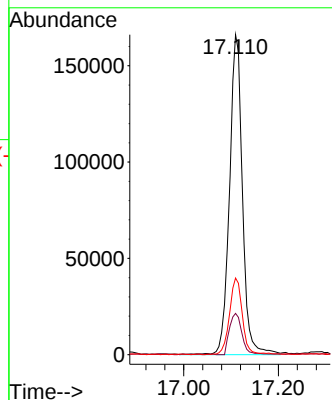
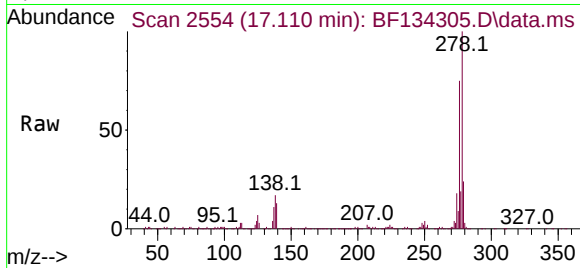




#91
Dibenzo(a,h)anthracene
Concen: 37.052 ng
RT: 17.110 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:278 Resp: 315740
Ion Ratio Lower Upper
278 100
139 12.9 12.2 18.4
279 24.0 19.4 29.2



#92
Benzo(g,h,i)perylene
Concen: 33.674 ng
RT: 17.568 min Scan# 2632
Delta R.T. 0.000 min
Lab File: BF134305.D
Acq: 14 Jul 2023 23:48

Tgt Ion:276 Resp: 295914
Ion Ratio Lower Upper
276 100
277 24.1 19.0 28.6
138 17.4 16.2 24.2

