

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071423\
 Data File : BF134304.D
 Acq On : 14 Jul 2023 23:09
 Operator : CG\JU
 Sample : 03592-01MS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMS

Quant Time: Jul 15 01:15:01 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	71281	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	276061	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	136850	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	259295	20.000	ng	0.00
76) Chrysene-d12	14.045	240	165682	20.000	ng	0.00
86) Perylene-d12	15.545	264	141729	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	457494	107.361	ng	0.01
7) Phenol-d6	6.487	99	542509	103.522	ng	0.00
23) Nitrobenzene-d5	7.410	82	380638	74.326	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	185264	107.974	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	698965	74.258	ng	0.00
79) Terphenyl-d14	12.974	244	700032	68.000	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	71951	40.950	ng	97
3) Pyridine	3.434	79	170897	37.341	ng	96
4) n-Nitrosodimethylamine	3.393	42	116479	44.561	ng	96
6) Aniline	6.510	93	260585	40.863	ng	94
8) 2-Chlorophenol	6.634	128	210265	48.608	ng	93
9) Benzaldehyde	6.398	77	135310	50.338	ng	96
10) Phenol	6.498	94	256116	46.482	ng	90
11) bis(2-Chloroethyl)ether	6.581	93	188338	46.428	ng	98
12) 1,3-Dichlorobenzene	6.786	146	231676	50.237	ng	96
13) 1,4-Dichlorobenzene	6.863	146	232041	49.815	ng	99
14) 1,2-Dichlorobenzene	7.010	146	222127	50.918	ng	100
15) Benzyl Alcohol	6.986	79	196390	48.612	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.116	45	306653	42.730	ng	91
17) 2-Methylphenol	7.104	107	171685	44.322	ng	94
18) Hexachloroethane	7.351	117	85949	49.764	ng	96
19) n-Nitroso-di-n-propyla...	7.257	70	154548	46.504	ng	99
20) 3+4-Methylphenols	7.257	107	217260	46.233	ng	94
22) Acetophenone	7.251	105	303558	48.350	ng	# 97
24) Nitrobenzene	7.428	77	235221	45.452	ng	94
25) Isophorone	7.663	82	411686	44.232	ng	98
26) 2-Nitrophenol	7.745	139	115622	46.573	ng	98
27) 2,4-Dimethylphenol	7.781	122	180431	45.914	ng	96
28) bis(2-Chloroethoxy)met...	7.875	93	241669	44.842	ng	98
29) 2,4-Dichlorophenol	7.986	162	175344	44.997	ng	97
30) 1,2,4-Trichlorobenzene	8.063	180	195114	48.525	ng	98
31) Naphthalene	8.145	128	599880	44.987	ng	100
32) Benzoic acid	7.910	122	101983	34.633	ng	89
33) 4-Chloroaniline	8.198	127	175348	30.741	ng	97
34) Hexachlorobutadiene	8.257	225	126205	49.758	ng	99
35) Caprolactam	8.575	113	47642	37.131	ng	98
36) 4-Chloro-3-methylphenol	8.686	107	201823	46.103	ng	98
37) 2-Methylnaphthalene	8.839	142	401149	42.541	ng	98
38) 1-Methylnaphthalene	8.939	142	375279	42.810	ng	99
40) 1,2,4,5-Tetrachloroben...	9.004	216	198030	48.843	ng	98
41) Hexachlorocyclopentadiene	8.986	237	76413	39.726	ng	98
43) 2,4,6-Trichlorophenol	9.122	196	127772	46.294	ng	96

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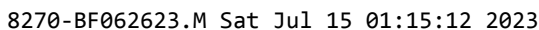
Instrument :
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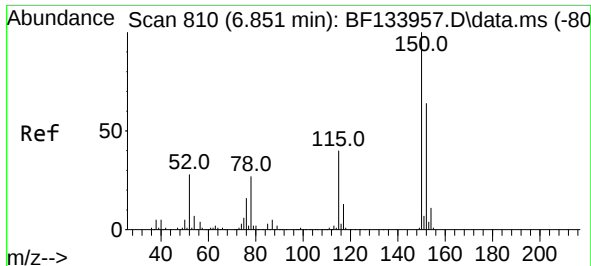
Quant Time: Jul 15 01:15:01 2023
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	137933	42.486	ng	99
46) 1,1'-Biphenyl	9.304	154	503042	45.824	ng	98
47) 2-Chloronaphthalene	9.328	162	373410	46.491	ng	97
48) 2-Nitroaniline	9.427	65	131450	44.906	ng	97
49) Acenaphthylene	9.745	152	608713	44.365	ng	100
50) Dimethylphthalate	9.610	163	455401	45.843	ng	99
51) 2,6-Dinitrotoluene	9.675	165	99273	46.398	ng	93
52) Acenaphthene	9.916	154	361821	45.447	ng	98
53) 3-Nitroaniline	9.845	138	97546	38.002	ng	99
54) 2,4-Dinitrophenol	9.957	184	61960	51.586	ng	91
55) Dibenzofuran	10.092	168	548251	44.063	ng	99
56) 4-Nitrophenol	10.016	139	152332	84.843	ng	87
57) 2,4-Dinitrotoluene	10.086	165	130724	46.264	ng	# 89
58) Fluorene	10.433	166	442524	45.715	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.210	232	115763	45.205	ng	99
60) Diethylphthalate	10.310	149	475380	45.932	ng	99
61) 4-Chlorophenyl-phenyle...	10.427	204	215614	46.220	ng	99
62) 4-Nitroaniline	10.463	138	97665	37.755	ng	89
63) Azobenzene	10.586	77	436008	44.536	ng	96
65) 4,6-Dinitro-2-methylph...	10.492	198	47240	33.417	ng	82
66) n-Nitrosodiphenylamine	10.551	169	384411	46.401	ng	98
67) 4-Bromophenyl-phenylether	10.916	248	130934	47.509	ng	# 89
68) Hexachlorobenzene	10.986	284	147706	50.477	ng	96
69) Atrazine	11.080	200	129504	56.513	ng	98
70) Pentachlorophenol	11.186	266	136615	78.082	ng	99
71) Phenanthrene	11.404	178	622329	47.676	ng	99
72) Anthracene	11.457	178	607515	44.746	ng	100
73) Carbazole	11.616	167	566291	45.569	ng	98
74) Di-n-butylphthalate	11.939	149	729033	49.332	ng	99
75) Fluoranthene	12.604	202	754235	53.447	ng	97
77) Benzidine	12.727	184	382836	97.110	ng	99
78) Pyrene	12.833	202	734154	47.614	ng	99
80) Butylbenzylphthalate	13.451	149	278689	48.192	ng	99
81) Benzo(a)anthracene	14.033	228	586169	51.014	ng	99
82) 3,3'-Dichlorobenzidine	13.992	252	195034	53.575	ng	98
83) Chrysene	14.068	228	522512	46.950	ng	99
84) Bis(2-ethylhexyl)phtha...	14.015	149	369560	55.616	ng	98
85) Di-n-octyl phthalate	14.633	149	613600	62.845	ng	98
87) Indeno(1,2,3-cd)pyrene	17.098	276	387216	39.373	ng	96
88) Benzo(b)fluoranthene	15.104	252	459124	55.092	ng	98
89) Benzo(k)fluoranthene	15.133	252	425982	50.204	ng	97
90) Benzo(a)pyrene	15.480	252	364631	45.247	ng	98
91) Dibenzo(a,h)anthracene	17.109	278	321496	40.023	ng	96
92) Benzo(g,h,i)perylene	17.568	276	308223	37.208	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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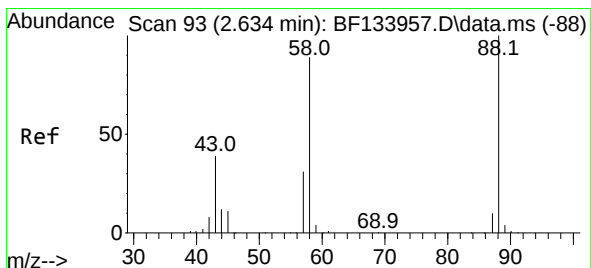
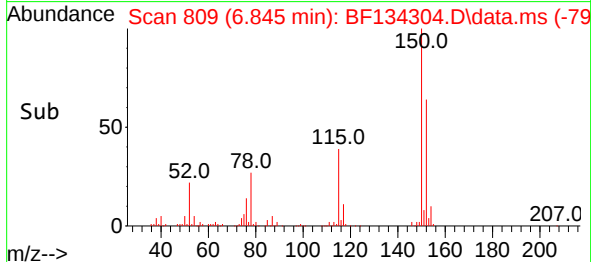
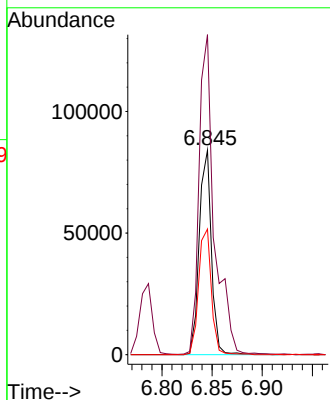
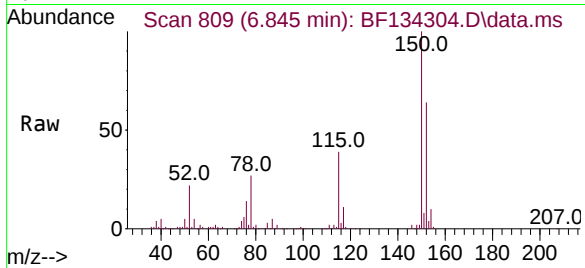




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.845 min Scan# 810
 Delta R.T. 0.000 min
 Lab File: BF134304.D
 Acq: 14 Jul 2023 23:09

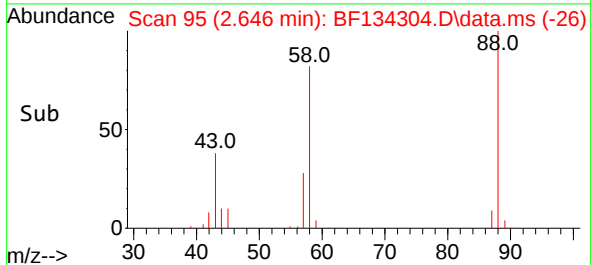
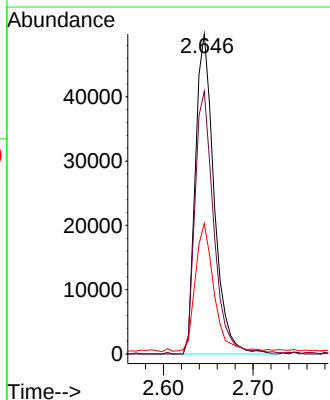
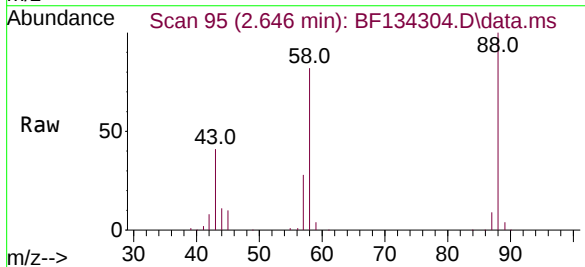
Instrument :
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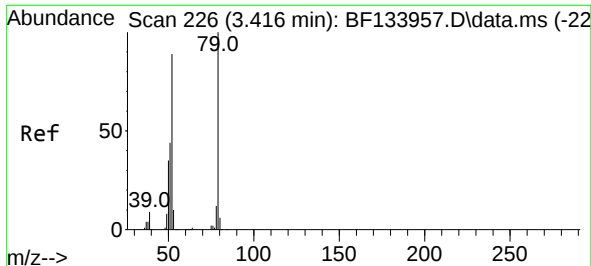
Tgt Ion:152 Resp: 71281
 Ion Ratio Lower Upper
 152 100
 150 156.5 124.5 186.7
 115 61.5 50.2 75.2



#2
 1,4-Dioxane
 Concen: 40.950 ng
 RT: 2.646 min Scan# 95
 Delta R.T. 0.053 min
 Lab File: BF134304.D
 Acq: 14 Jul 2023 23:09

Tgt Ion: 88 Resp: 71951
 Ion Ratio Lower Upper
 88 100
 58 83.0 68.8 103.2
 43 39.4 30.7 46.1





#3

Pyridine

Concen: 37.341 ng

RT: 3.434 min Scan# 21

Delta R.T. 0.053 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

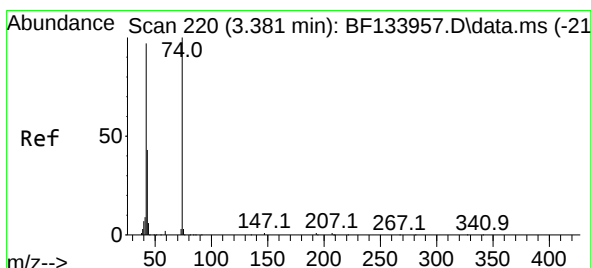
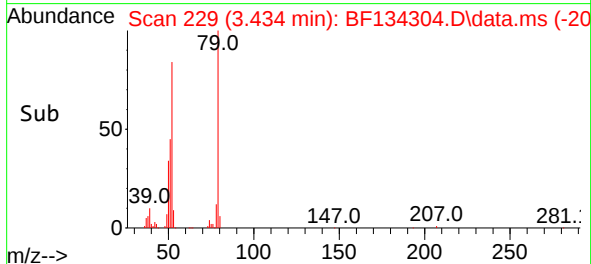
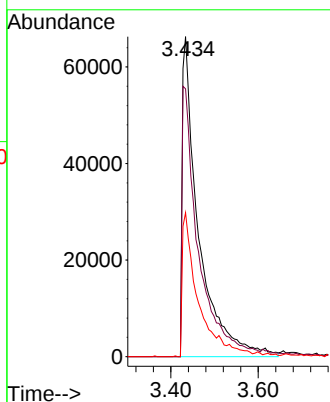
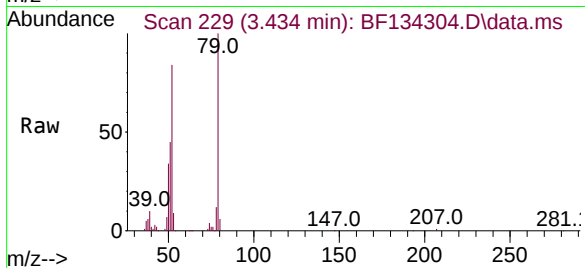
Tgt Ion: 79 Resp: 170897

Ion Ratio Lower Upper

79 100

52 83.7 71.1 106.7

51 45.0 35.2 52.8



#4

n-Nitrosodimethylamine

Concen: 44.561 ng

RT: 3.393 min Scan# 222

Delta R.T. 0.053 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

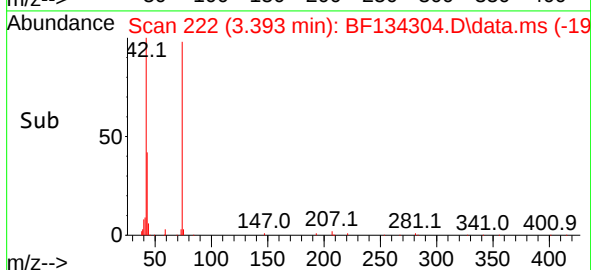
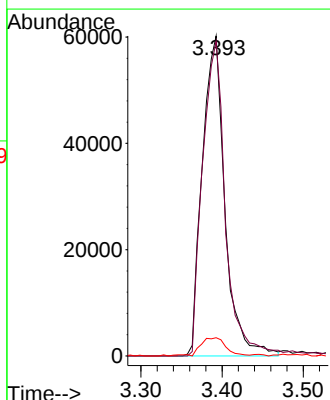
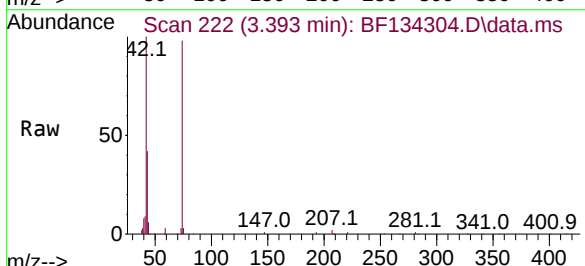
Tgt Ion: 42 Resp: 116479

Ion Ratio Lower Upper

42 100

74 98.3 82.4 123.6

44 5.7 4.9 7.3

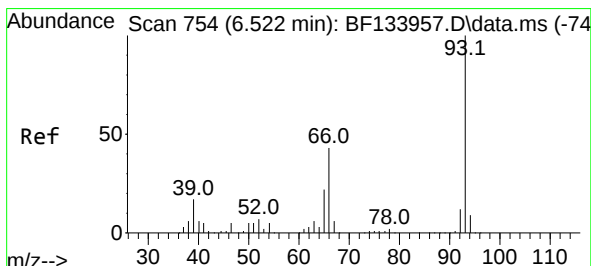
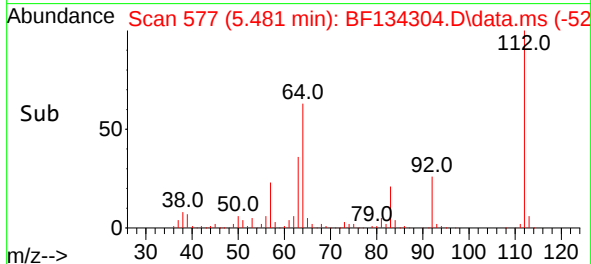
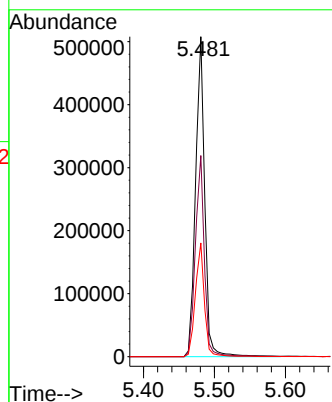
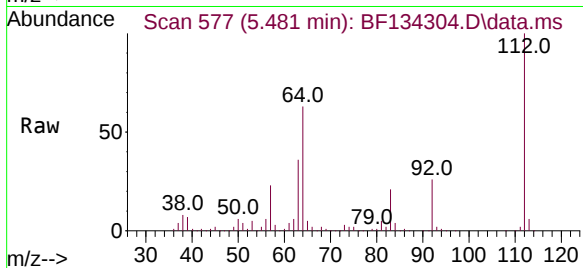




#5
2-Fluorophenol
Concen: 107.361 ng
RT: 5.481 min Scan# 51
Delta R.T. 0.012 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

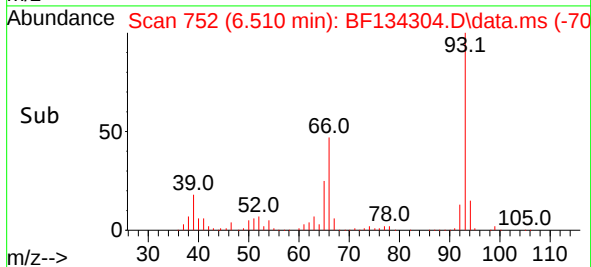
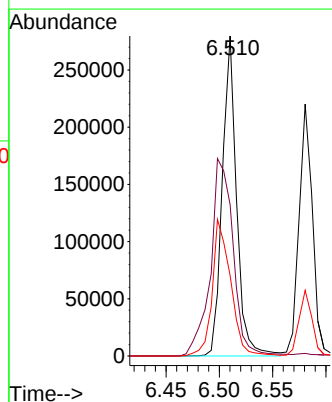
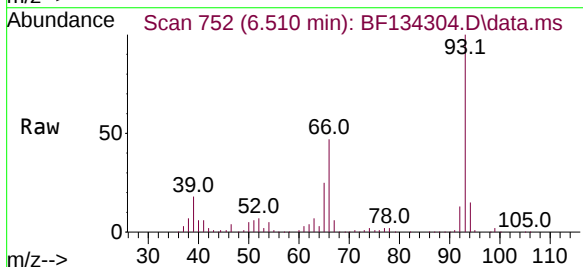
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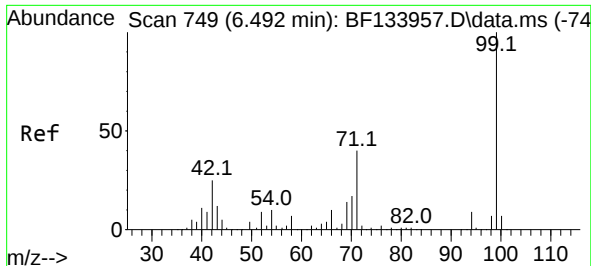
Tgt Ion:112 Resp: 457494
Ion Ratio Lower Upper
112 100
64 62.8 52.1 78.1
63 35.5 28.6 42.8



#6
Aniline
Concen: 40.863 ng
RT: 6.510 min Scan# 752
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion: 93 Resp: 260585
Ion Ratio Lower Upper
93 100
66 47.3 34.5 51.7
65 25.1 17.8 26.6

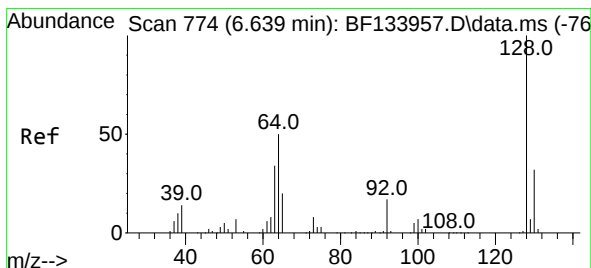
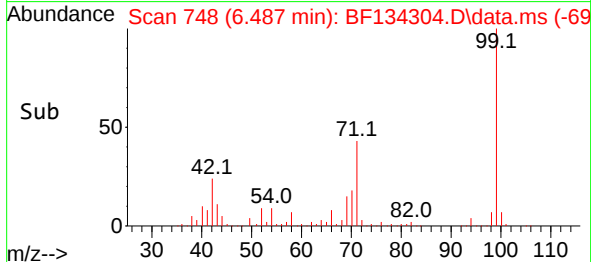
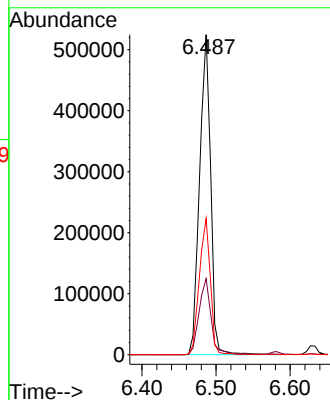
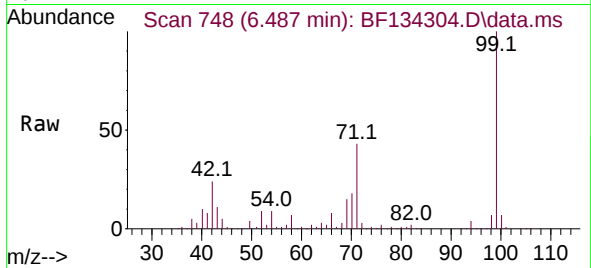




#7
Phenol-d6
Concen: 103.522 ng
RT: 6.487 min Scan# 749
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

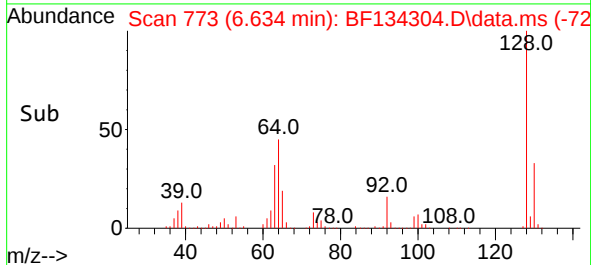
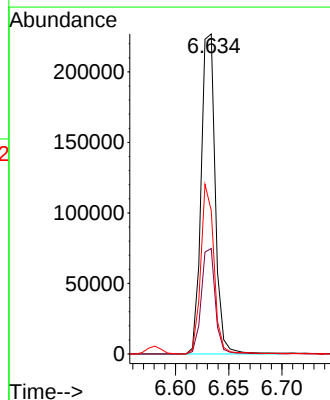
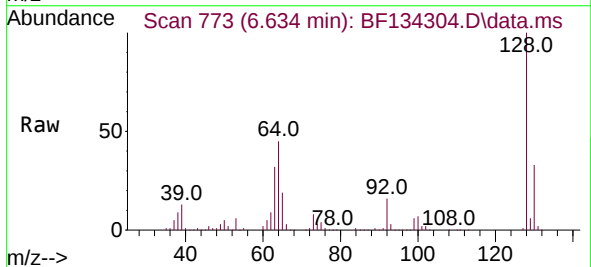
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Tgt Ion: 99 Resp: 542509
Ion Ratio Lower Upper
99 100
42 23.8 19.8 29.6
71 42.5 31.9 47.9



#8
2-Chlorophenol
Concen: 48.608 ng
RT: 6.634 min Scan# 773
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:128 Resp: 210265
Ion Ratio Lower Upper
128 100
130 33.0 11.7 51.7
64 44.9 31.3 71.3





#9

Benzaldehyde

Concen: 50.338 ng

RT: 6.398 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

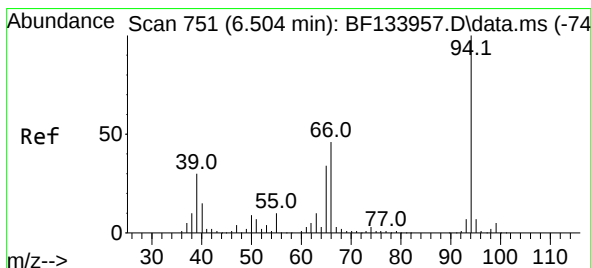
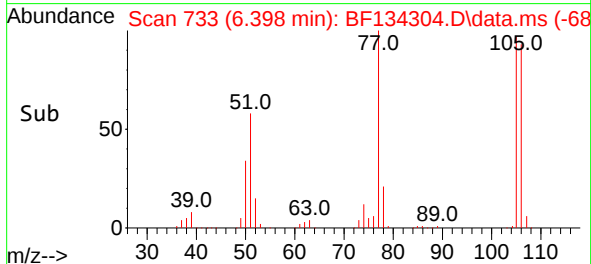
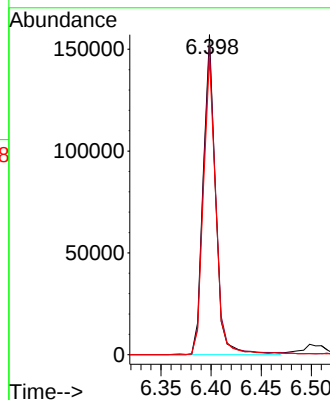
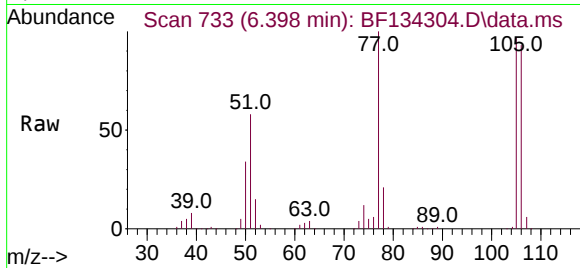
Tgt Ion: 77 Resp: 135310

Ion Ratio Lower Upper

77 100

105 97.4 82.0 122.0

106 92.7 76.9 116.9



#10

Phenol

Concen: 46.482 ng

RT: 6.498 min Scan# 750

Delta R.T. 0.000 min

Lab File: BF134304.D

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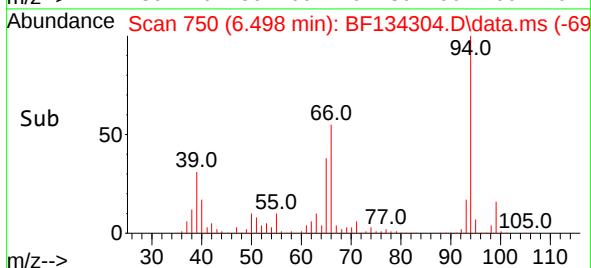
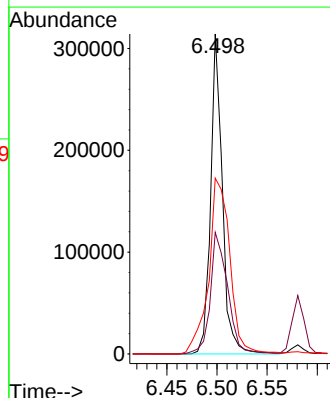
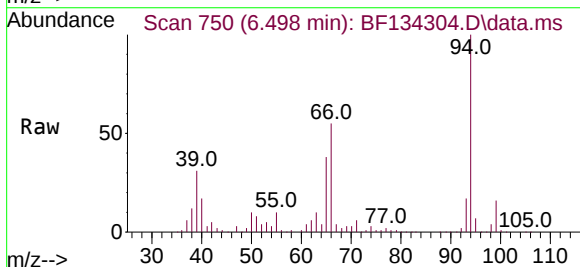
Tgt Ion: 94 Resp: 256116

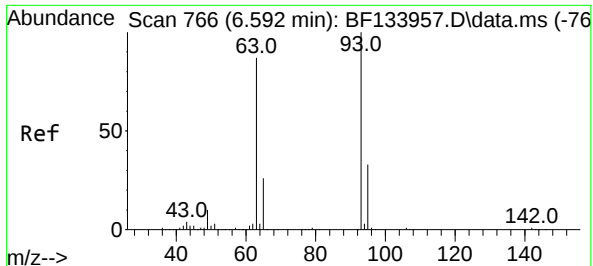
Ion Ratio Lower Upper

94 100

65 38.0 14.2 54.2

66 54.9 26.4 66.4

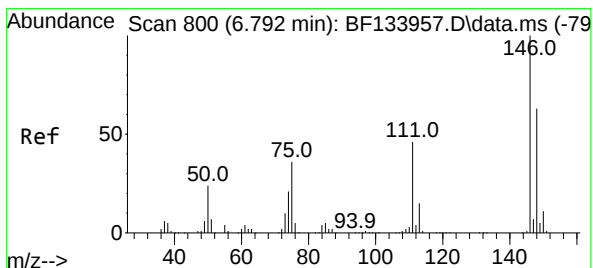
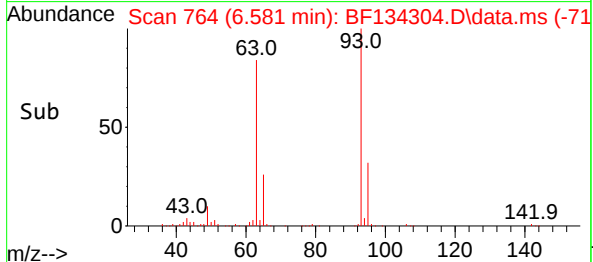
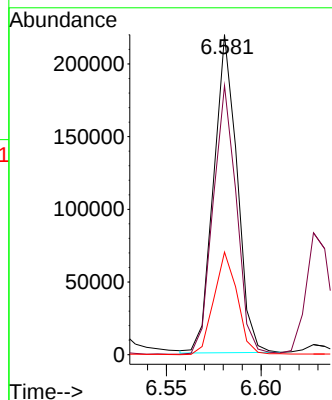
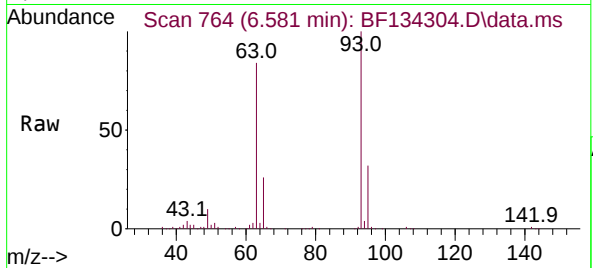




#11
bis(2-Chloroethyl)ether
Concen: 46.428 ng
RT: 6.581 min Scan# 764
Delta R.T. -0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

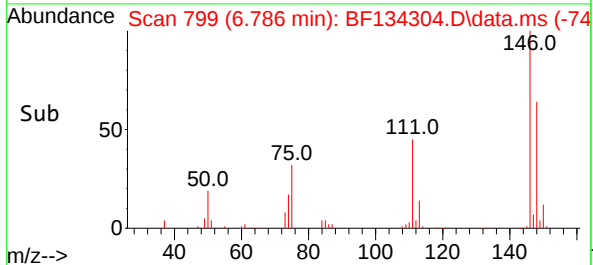
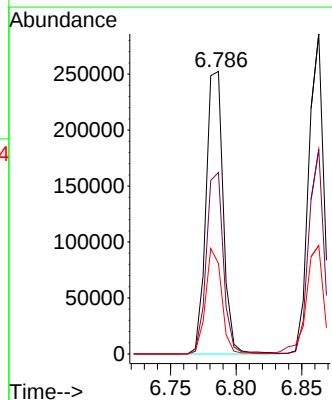
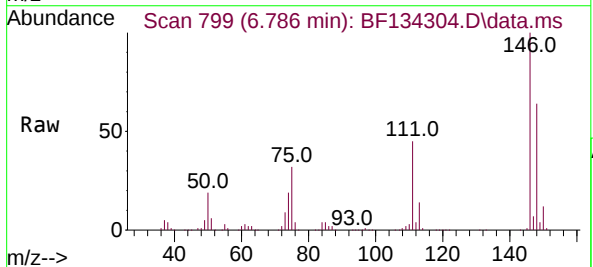
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

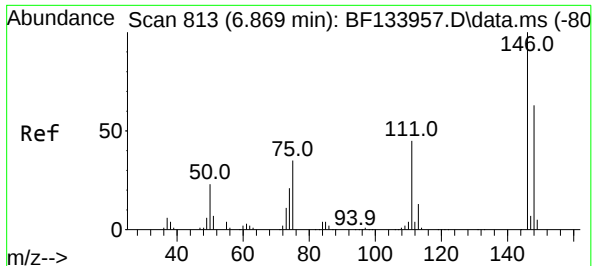
Tgt Ion: 93 Resp: 188338
Ion Ratio Lower Upper
93 100
63 84.1 66.5 106.5
95 32.1 12.9 52.9



#12
1,3-Dichlorobenzene
Concen: 50.237 ng
RT: 6.786 min Scan# 799
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:146 Resp: 231676
Ion Ratio Lower Upper
146 100
148 64.2 50.5 75.7
75 32.0 29.0 43.6





#13

1,4-Dichlorobenzene

Concen: 49.815 ng

RT: 6.863 min Scan# 81

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

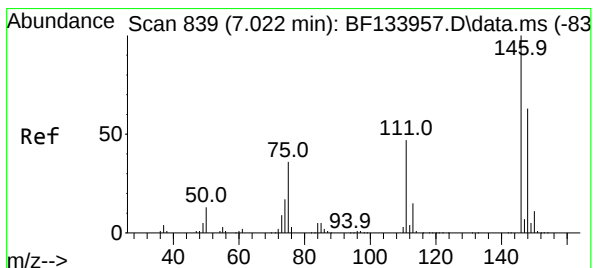
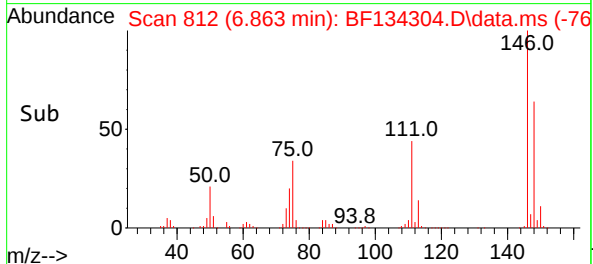
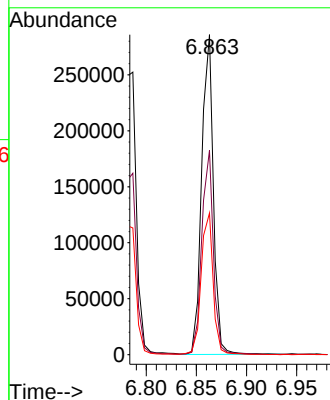
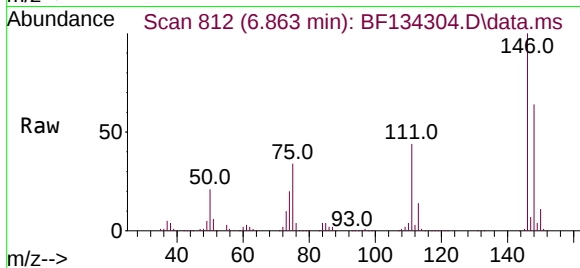
Tgt Ion:146 Resp: 232041

Ion Ratio Lower Upper

146 100

148 63.8 50.2 75.2

111 44.2 35.8 53.6



#14

1,2-Dichlorobenzene

Concen: 50.918 ng

RT: 7.010 min Scan# 837

Delta R.T. -0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

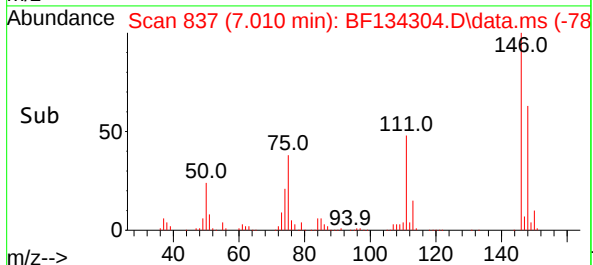
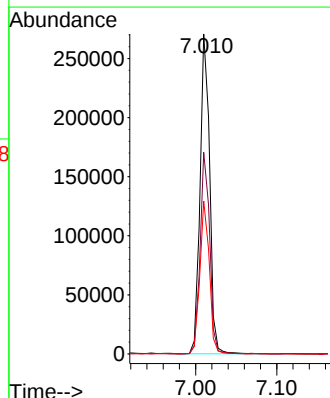
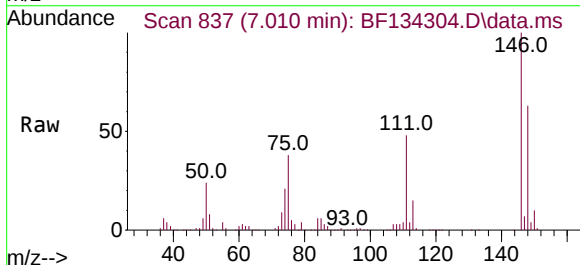
Tgt Ion:146 Resp: 222127

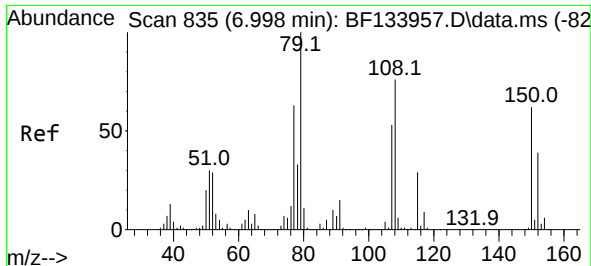
Ion Ratio Lower Upper

146 100

148 63.0 50.6 76.0

111 47.8 38.0 57.0

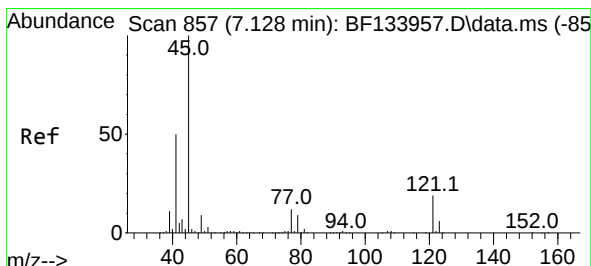
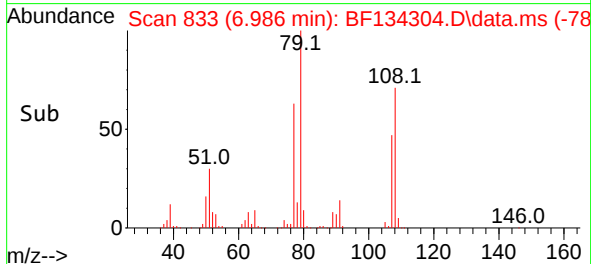
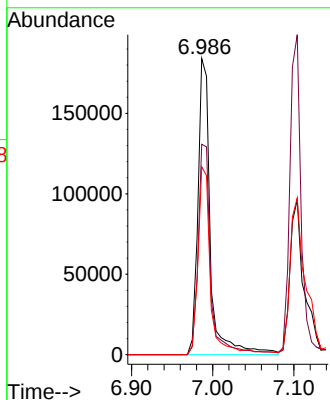
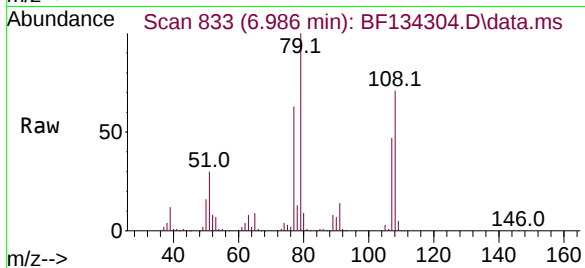




#15
Benzyl Alcohol
Concen: 48.612 ng
RT: 6.986 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

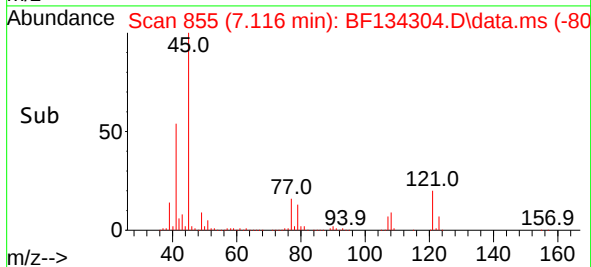
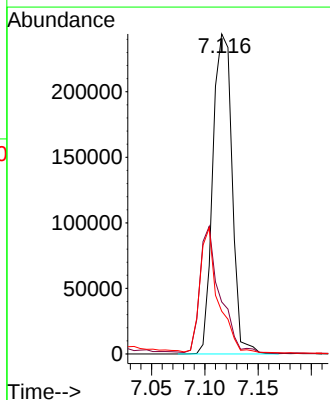
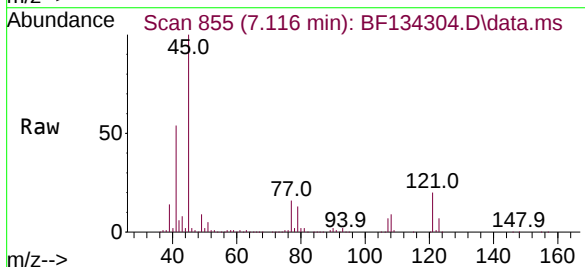
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

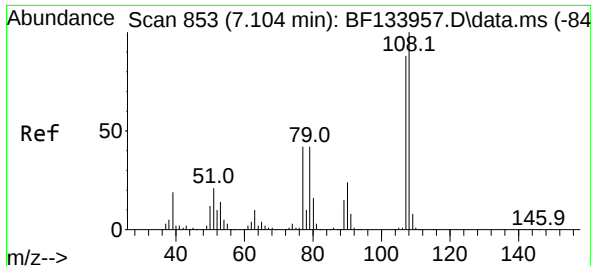
Tgt Ion: 79 Resp: 196390
Ion Ratio Lower Upper
79 100
108 71.0 60.7 91.1
77 63.4 50.6 75.8



#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.730 ng
RT: 7.116 min Scan# 855
Delta R.T. -0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion: 45 Resp: 306653
Ion Ratio Lower Upper
45 100
77 16.2 0.0 32.9
79 13.4 0.0 29.5

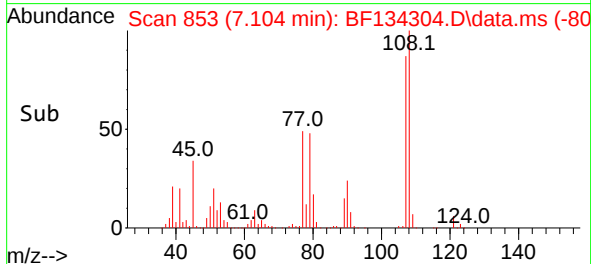
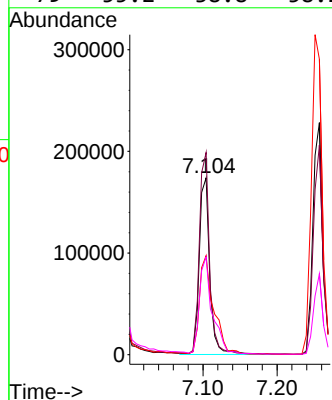
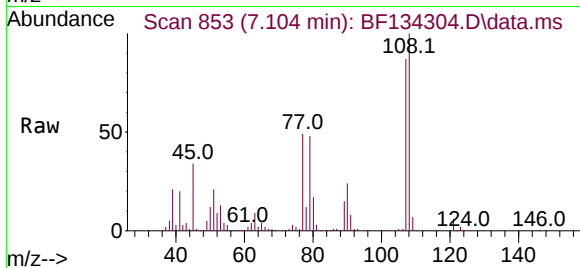




#17
2-Methylphenol
Concen: 44.322 ng
RT: 7.104 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

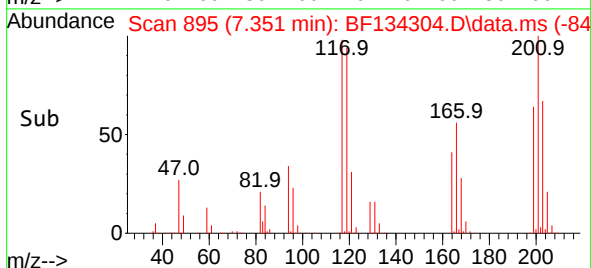
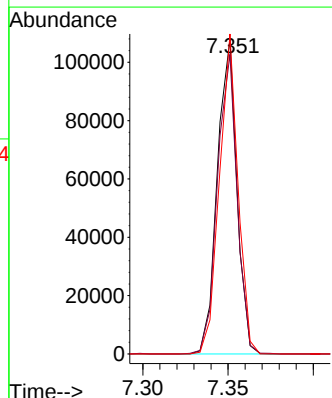
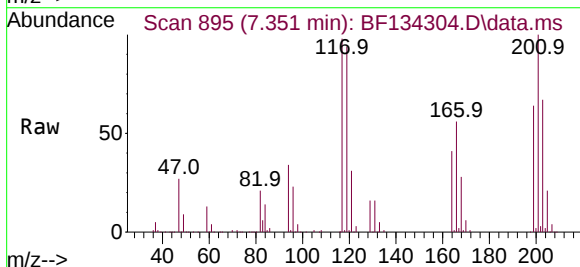
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

Tgt Ion:	107	Resp:	171685
Ion	Ratio	Lower	Upper
107	100		
108	114.3	90.6	136.0
77	56.0	38.3	57.5
79	55.2	38.8	58.2



#18
Hexachloroethane
Concen: 49.764 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:	117	Resp:	85949
Ion	Ratio	Lower	Upper
117	100		
119	95.2	74.2	111.4
201	101.6	77.2	115.8

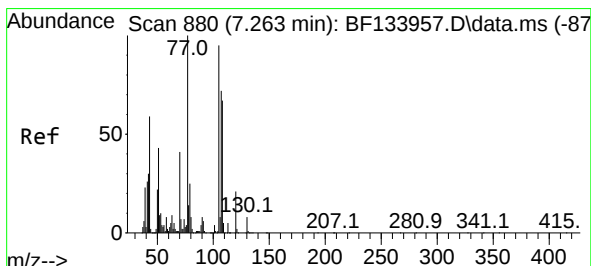
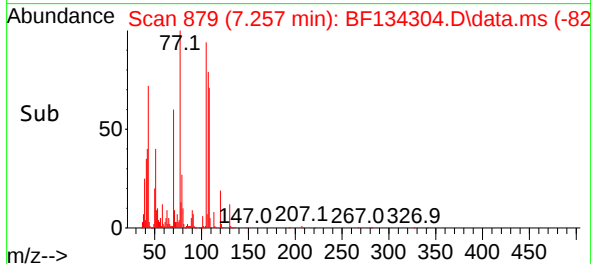
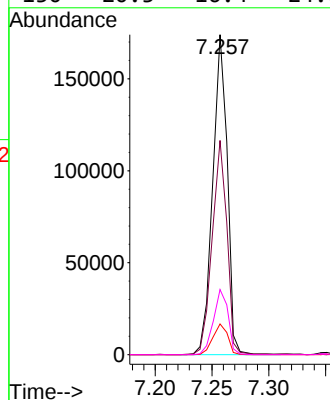
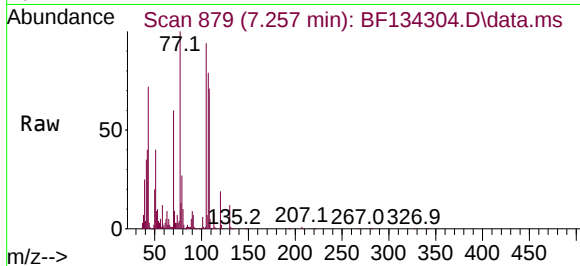




#19
n-Nitroso-di-n-propylamine
Concen: 46.504 ng
RT: 7.257 min Scan# 819
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

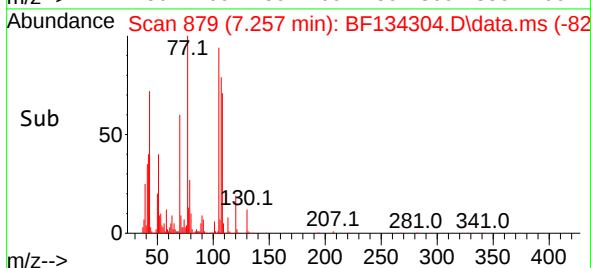
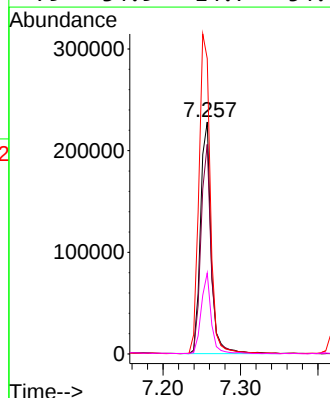
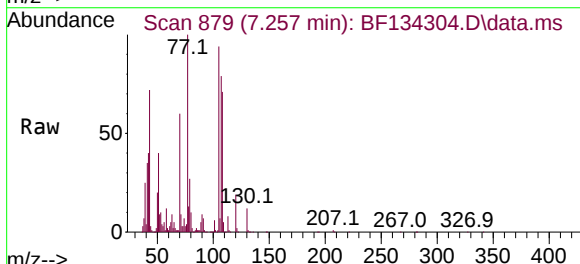
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

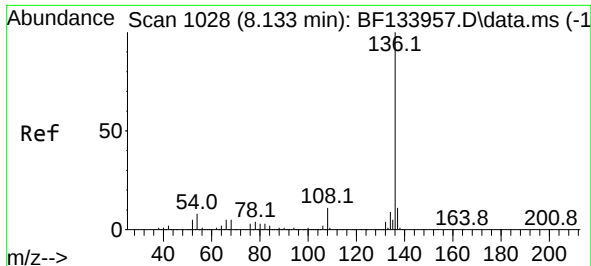
Tgt Ion:	70	Resp:	154548
Ion	Ratio	Lower	Upper
70	100		
42	66.9	54.7	82.1
101	9.6	7.7	11.5
130	20.3	16.4	24.6



#20
3+4-Methylphenols
Concen: 46.233 ng
RT: 7.257 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:	107	Resp:	217260
Ion	Ratio	Lower	Upper
107	100		
108	90.4	73.2	113.2
77	127.3	118.3	158.3
79	34.9	14.7	54.7

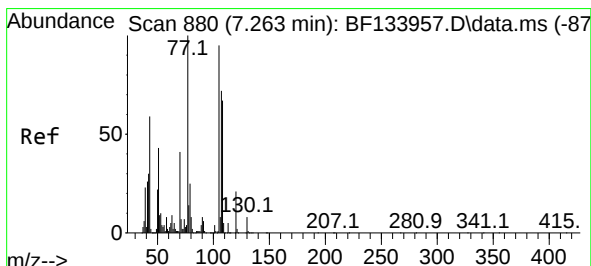
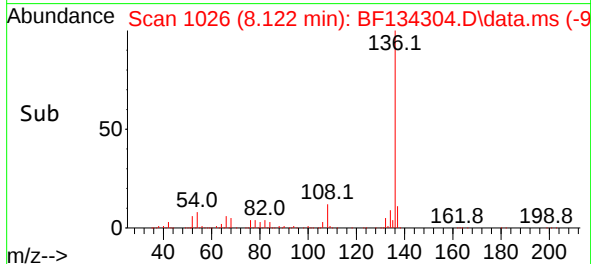
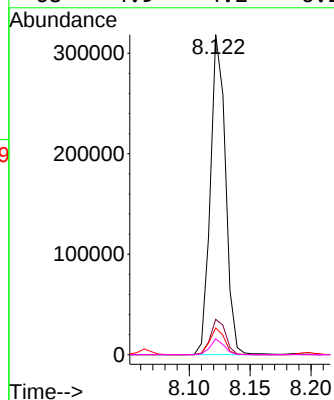
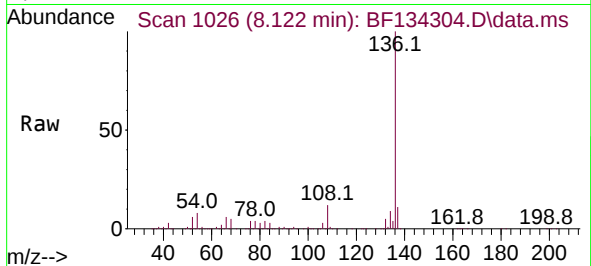




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

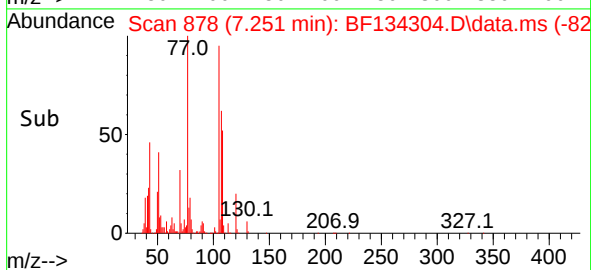
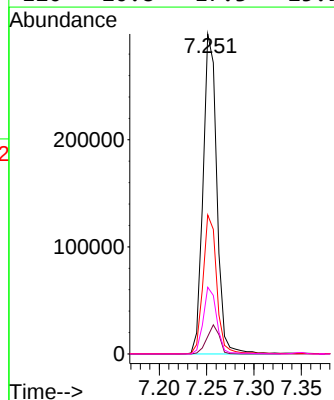
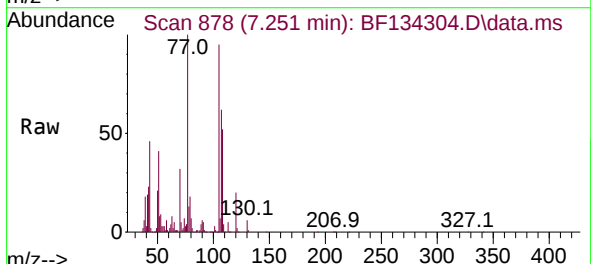
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

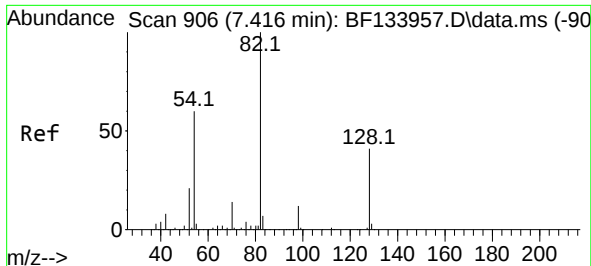
Tgt Ion:	136	Resp:	276061
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	8.4	6.5	9.7
68	4.9	4.2	6.2



#22
Acetophenone
Concen: 48.350 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:	105	Resp:	303558
Ion	Ratio	Lower	Upper
105	100		
71	5.4	5.5	8.3#
51	43.4	36.5	54.7
120	20.8	17.3	25.9

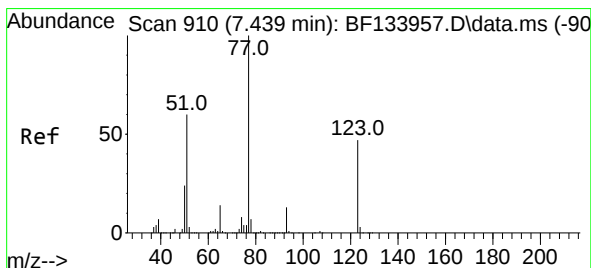
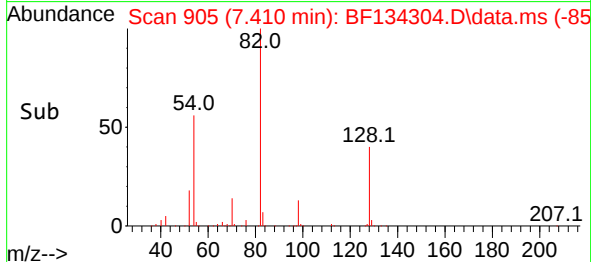
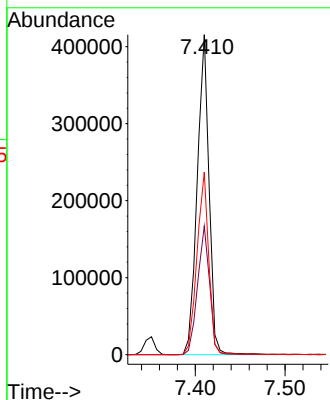
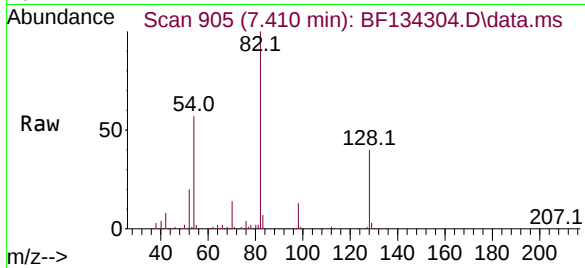




#23
Nitrobenzene-d5
Concen: 74.326 ng
RT: 7.410 min Scan# 906
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

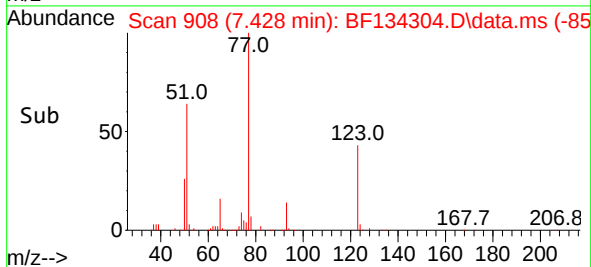
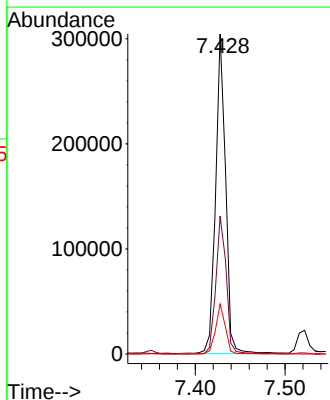
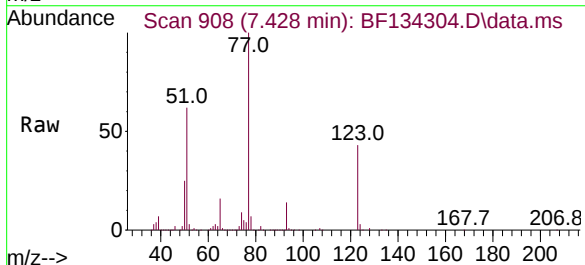
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

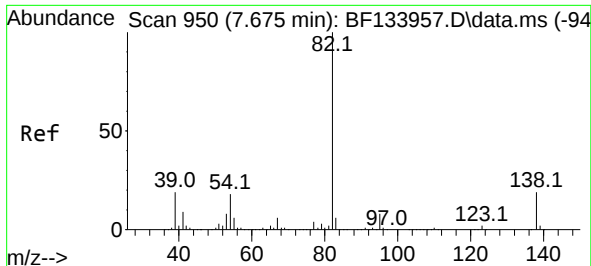
Tgt Ion: 82 Resp: 380638
Ion Ratio Lower Upper
82 100
128 40.2 32.5 48.7
54 57.1 48.2 72.2



#24
Nitrobenzene
Concen: 45.452 ng
RT: 7.428 min Scan# 908
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion: 77 Resp: 235221
Ion Ratio Lower Upper
77 100
123 43.0 37.8 56.6
65 15.6 11.3 16.9

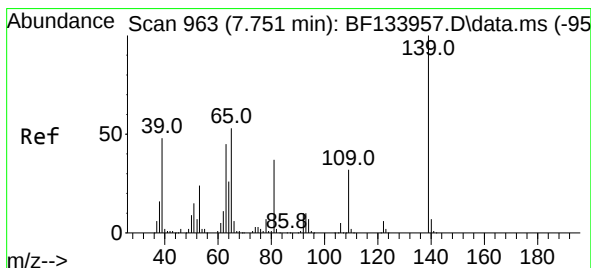
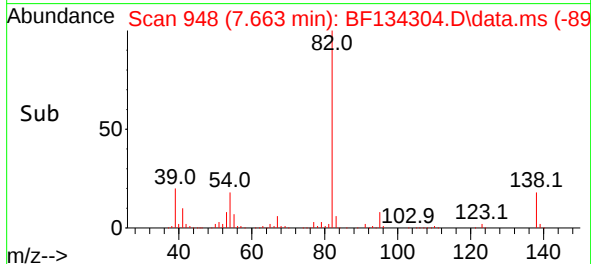
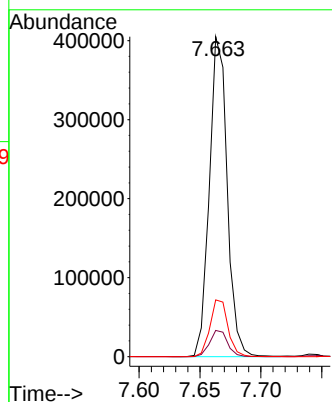
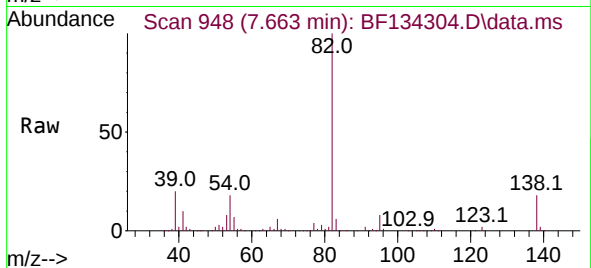




#25
Isophorone
Concen: 44.232 ng
RT: 7.663 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

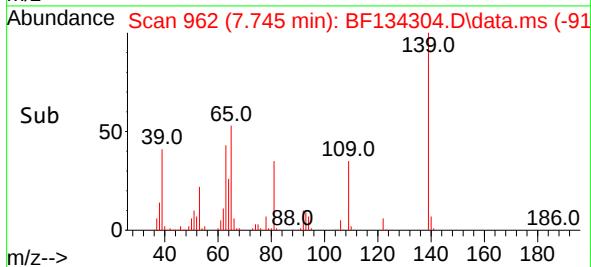
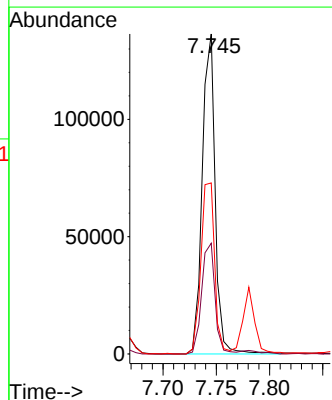
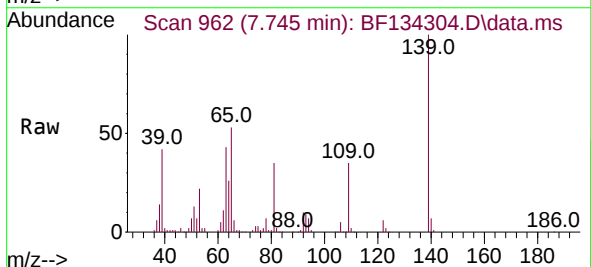
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

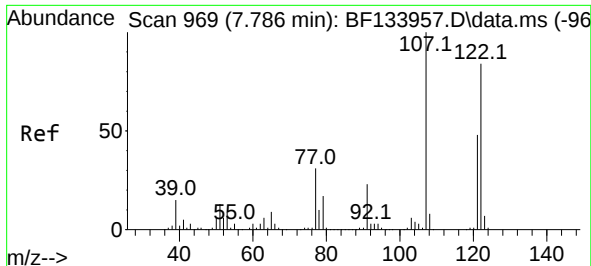
Tgt Ion: 82 Resp: 411686
Ion Ratio Lower Upper
82 100
95 8.2 6.1 9.1
138 17.8 15.2 22.8



#26
2-Nitrophenol
Concen: 46.573 ng
RT: 7.745 min Scan# 962
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:139 Resp: 115622
Ion Ratio Lower Upper
139 100
109 34.6 25.8 38.8
65 53.4 42.4 63.6

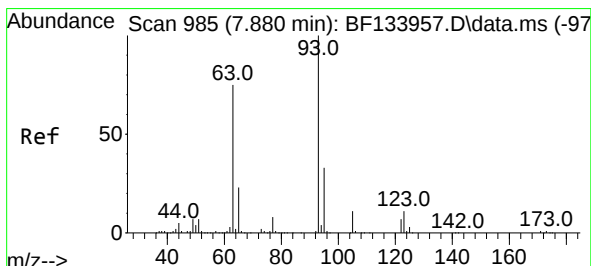
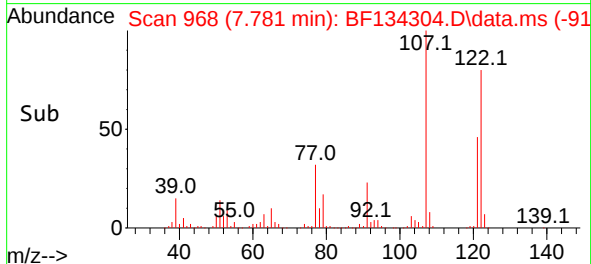
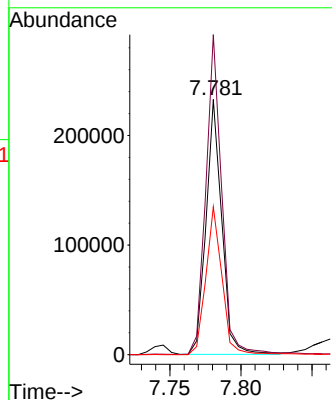
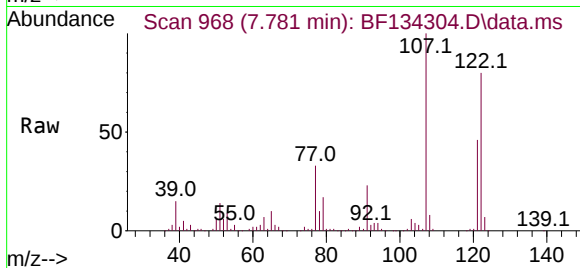




#27
2,4-Dimethylphenol
Concen: 45.914 ng
RT: 7.781 min Scan# 90
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

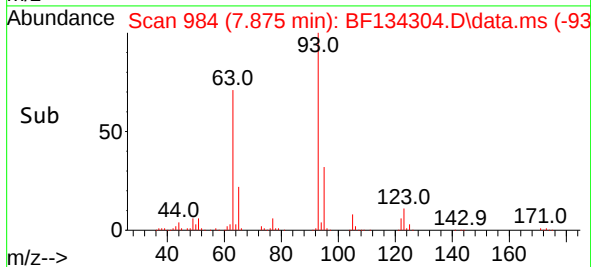
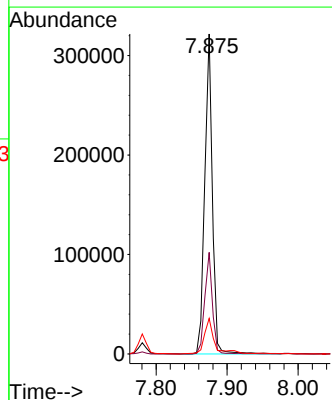
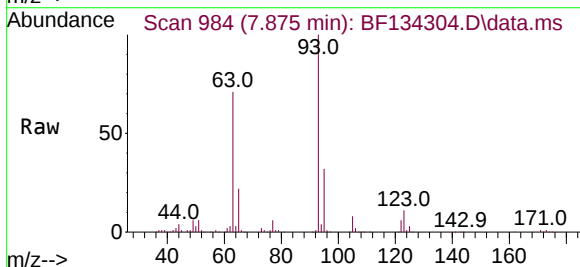
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

Tgt Ion:122 Resp: 180431
Ion Ratio Lower Upper
122 100
107 125.4 95.5 143.3
121 57.9 45.5 68.3



#28
bis(2-Chloroethoxy)methane
Concen: 44.842 ng
RT: 7.875 min Scan# 984
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion: 93 Resp: 241669
Ion Ratio Lower Upper
93 100
95 31.8 26.5 39.7
123 11.1 9.1 13.7





#29

2,4-Dichlorophenol

Concen: 44.997 ng

RT: 7.986 min Scan# 1003

Delta R.T. -0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

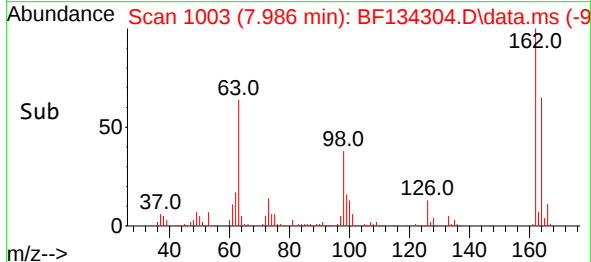
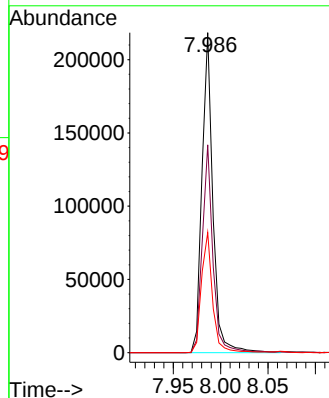
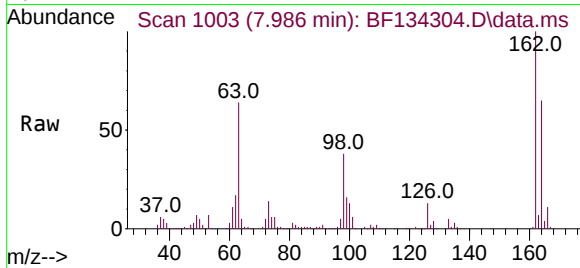
Tgt Ion:162 Resp: 175344

Ion Ratio Lower Upper

162 100

164 64.9 43.2 83.2

98 37.6 14.9 54.9



#30

1,2,4-Trichlorobenzene

Concen: 48.525 ng

RT: 8.063 min Scan# 1016

Delta R.T. -0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

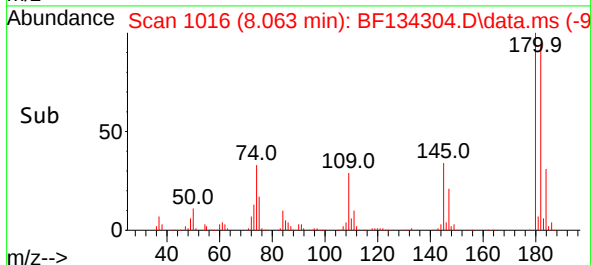
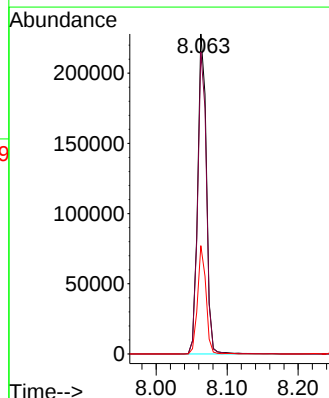
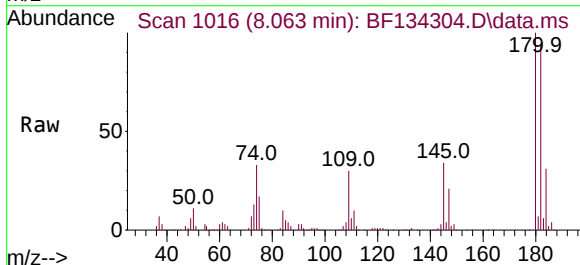
Tgt Ion:180 Resp: 195114

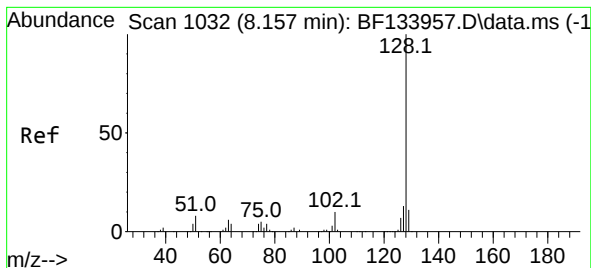
Ion Ratio Lower Upper

180 100

182 94.3 77.1 115.7

145 33.8 26.0 39.0





#31

Naphthalene

Concen: 44.987 ng

RT: 8.145 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

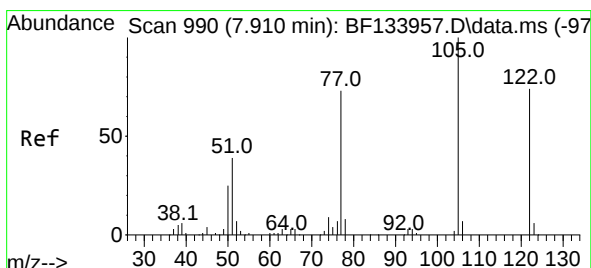
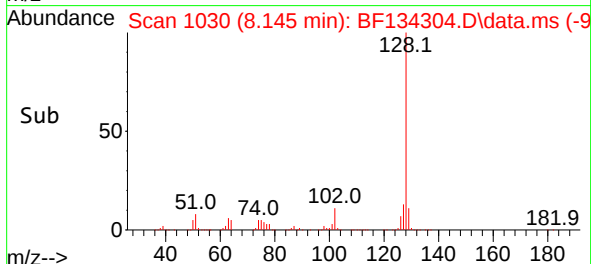
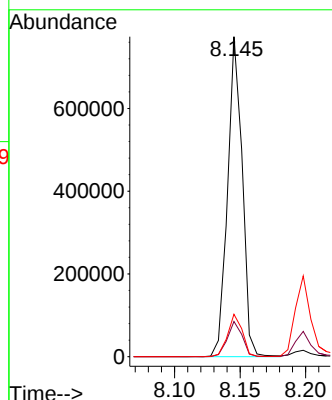
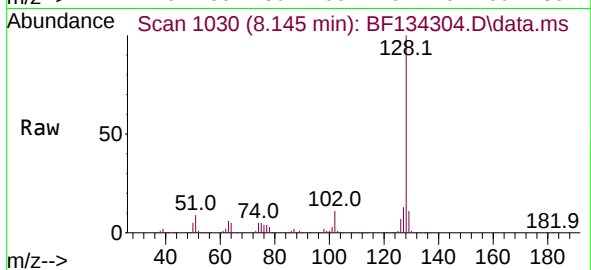
Tgt Ion:128 Resp: 599880

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

127 13.2 10.6 15.8



#32

Benzoic acid

Concen: 34.633 ng

RT: 7.910 min Scan# 990

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

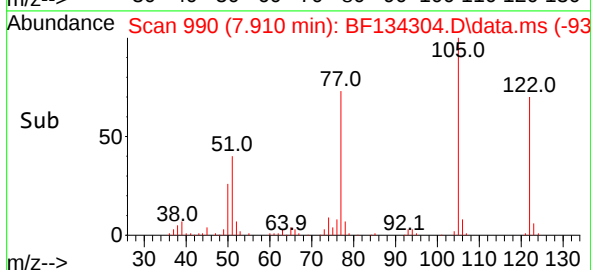
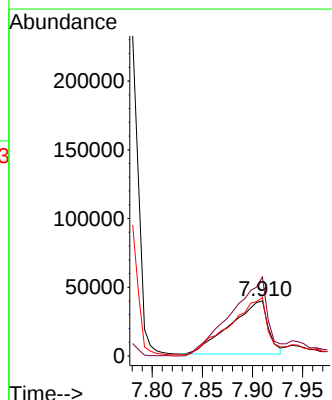
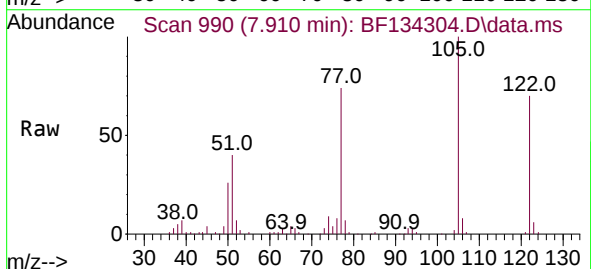
Tgt Ion:122 Resp: 101983

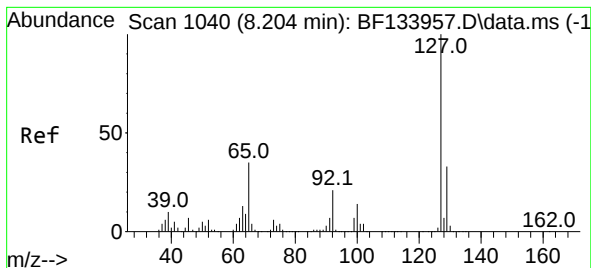
Ion Ratio Lower Upper

122 100

105 143.5 109.7 149.7

77 106.1 76.0 116.0





#33

4-Chloroaniline

Concen: 30.741 ng

RT: 8.198 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

Tgt Ion:127 Resp: 175348

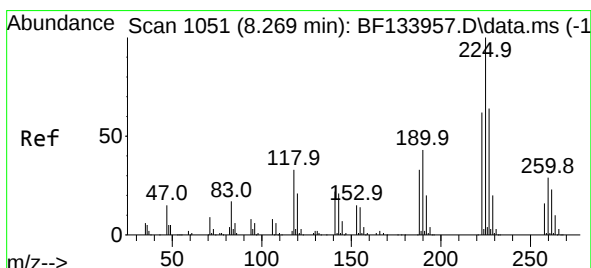
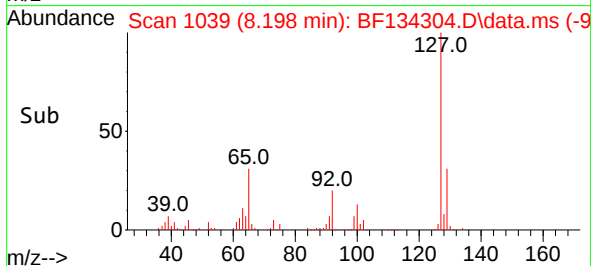
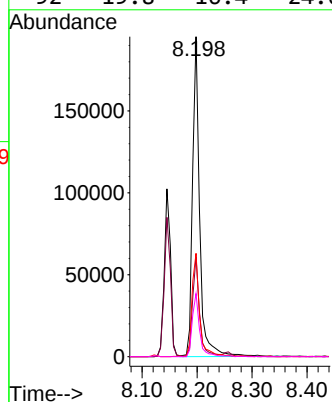
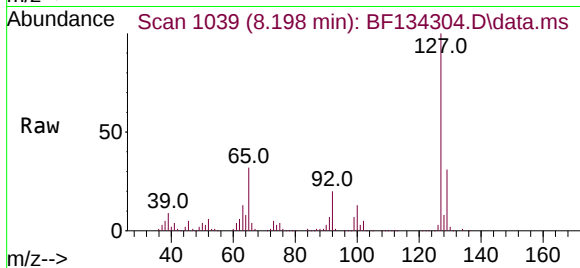
Ion Ratio Lower Upper

127 100

129 31.2 26.4 39.6

65 32.3 27.8 41.8

92 19.8 16.4 24.6



#34

Hexachlorobutadiene

Concen: 49.758 ng

RT: 8.257 min Scan# 1049

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

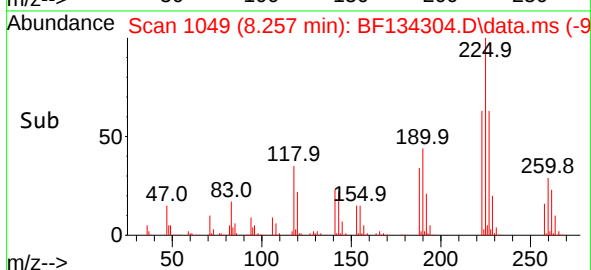
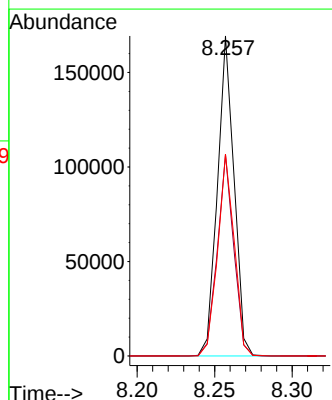
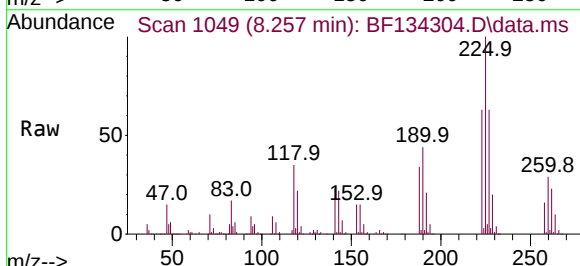
Tgt Ion:225 Resp: 126205

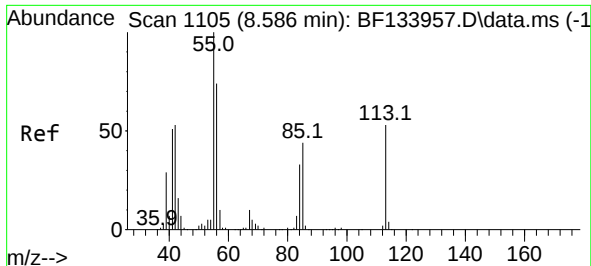
Ion Ratio Lower Upper

225 100

223 63.0 49.8 74.8

227 63.1 51.0 76.4

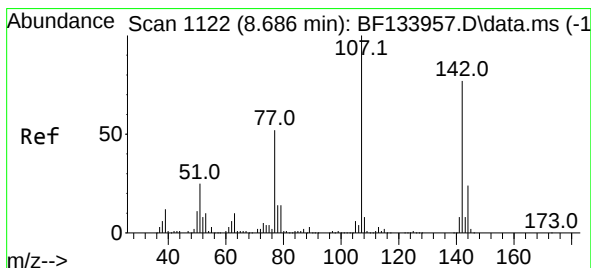
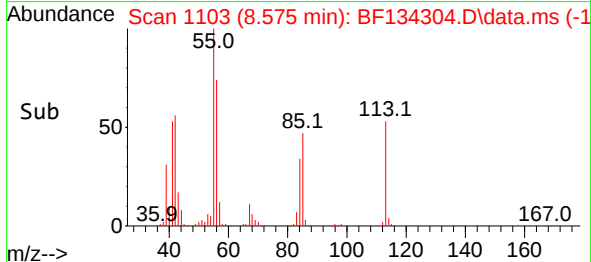
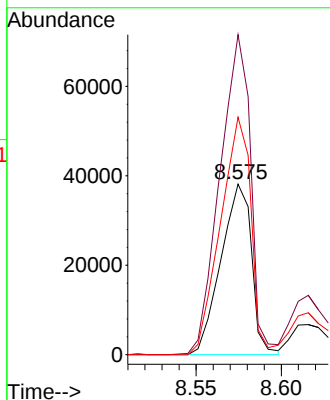
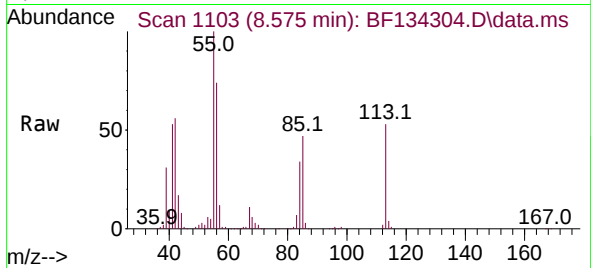




#35
 Caprolactam
 Concen: 37.131 ng
 RT: 8.575 min Scan# 1103
 Delta R.T. -0.000 min
 Lab File: BF134304.D
 Acq: 14 Jul 2023 23:09

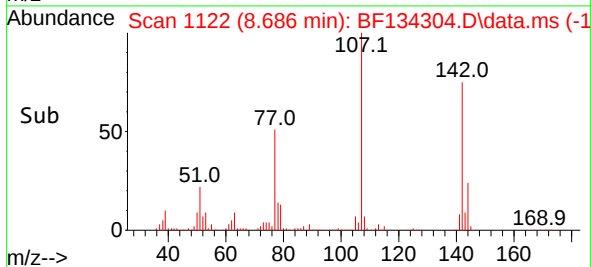
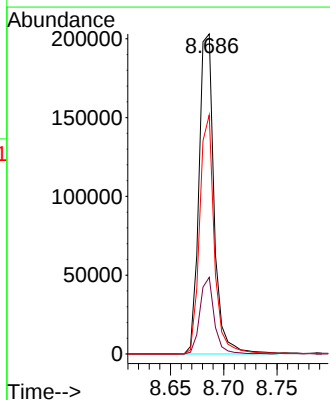
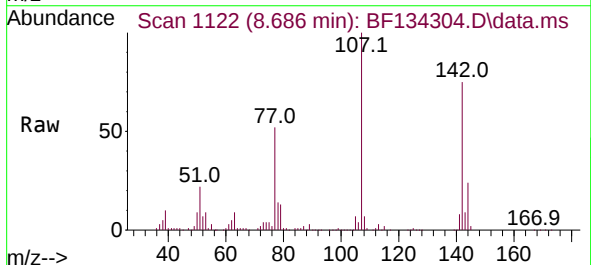
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMS

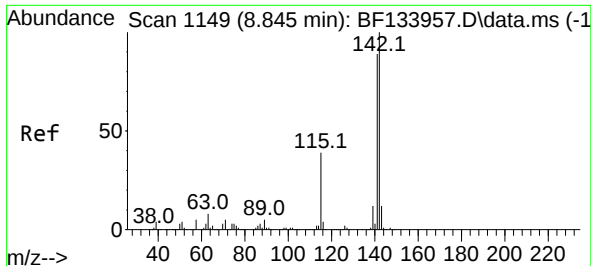
Tgt Ion:113 Resp: 47642
 Ion Ratio Lower Upper
 113 100
 55 187.6 170.2 210.2
 56 139.2 121.4 161.4



#36
 4-Chloro-3-methylphenol
 Concen: 46.103 ng
 RT: 8.686 min Scan# 1122
 Delta R.T. 0.006 min
 Lab File: BF134304.D
 Acq: 14 Jul 2023 23:09

Tgt Ion:107 Resp: 201823
 Ion Ratio Lower Upper
 107 100
 144 24.0 19.6 29.4
 142 74.7 61.4 92.2





#37

2-Methylnaphthalene

Concen: 42.541 ng

RT: 8.839 min Scan# 1149

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

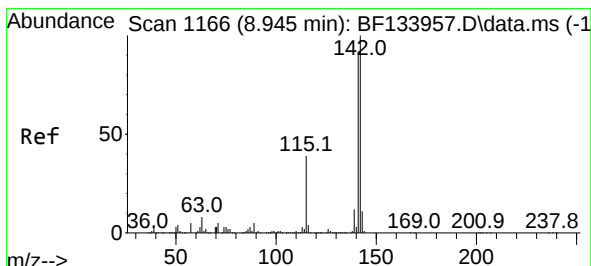
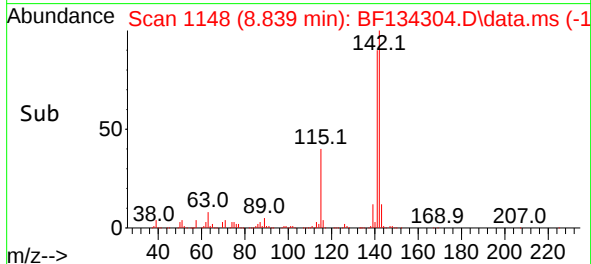
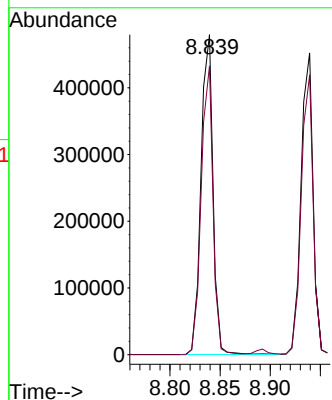
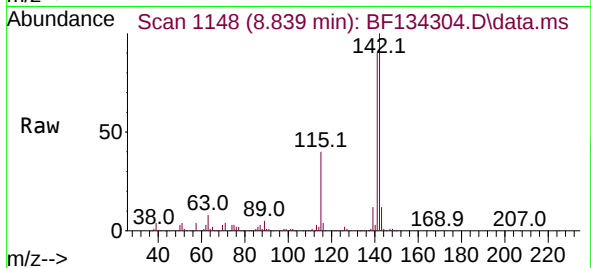
SOIL-PILEMS

Tgt Ion:142 Resp: 401149

Ion Ratio Lower Upper

142 100

141 90.3 71.0 106.4



#38

1-Methylnaphthalene

Concen: 42.810 ng

RT: 8.939 min Scan# 1165

Delta R.T. 0.000 min

Lab File: BF134304.D

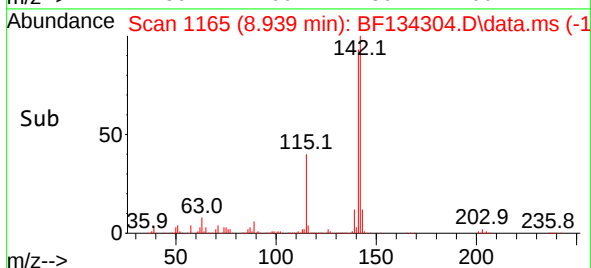
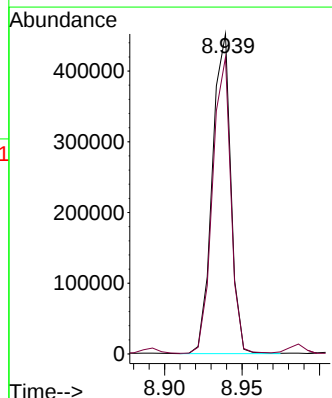
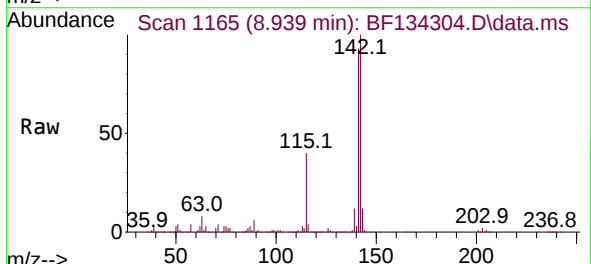
Acq: 14 Jul 2023 23:09

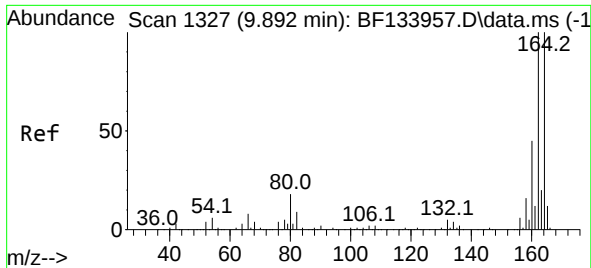
Tgt Ion:142 Resp: 375279

Ion Ratio Lower Upper

142 100

141 92.7 73.5 110.3

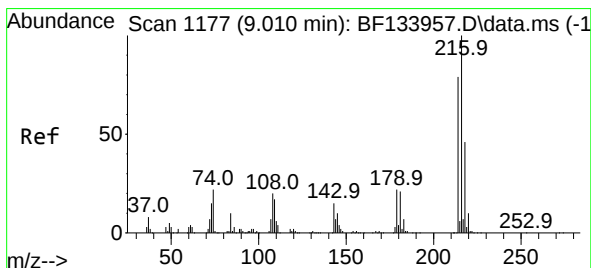
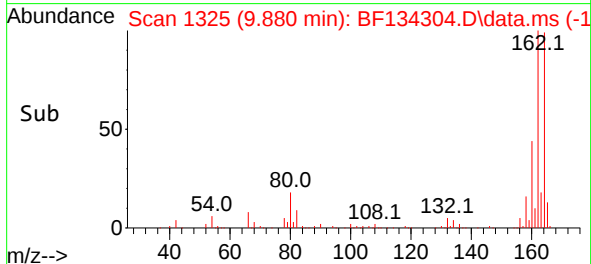
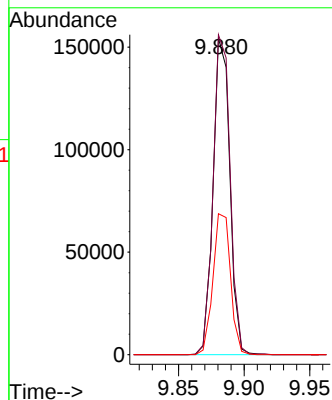
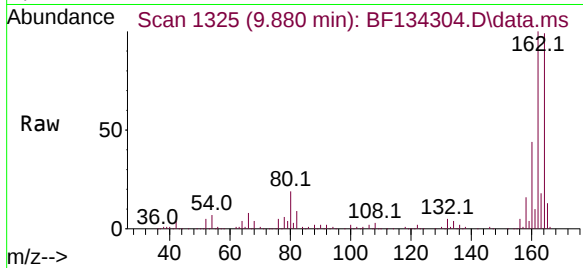




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

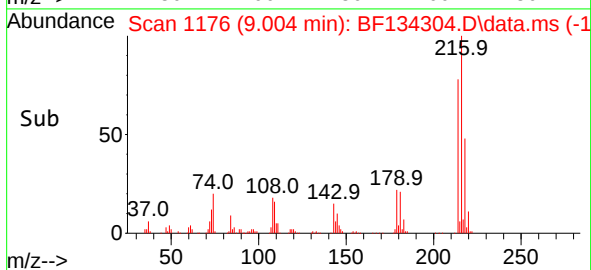
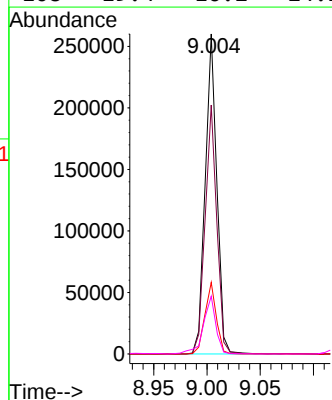
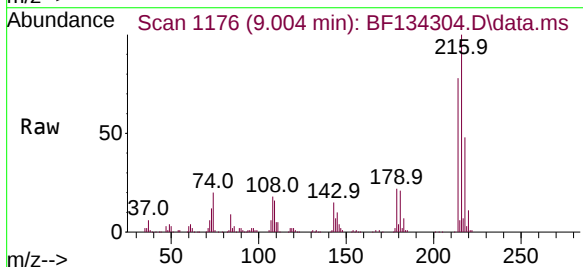
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

Tgt Ion:164 Resp: 136850
Ion Ratio Lower Upper
164 100
162 101.1 80.0 120.0
160 44.5 35.9 53.9



#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.843 ng
RT: 9.004 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:216 Resp: 198030
Ion Ratio Lower Upper
216 100
214 77.9 64.1 96.1
179 22.0 17.3 25.9
108 19.4 16.2 24.2

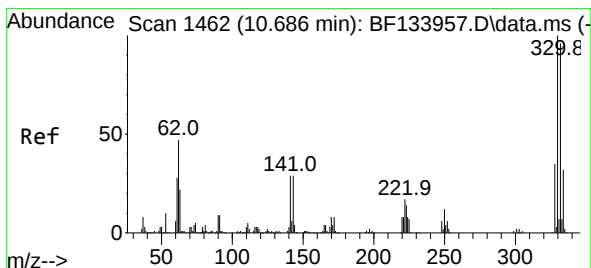
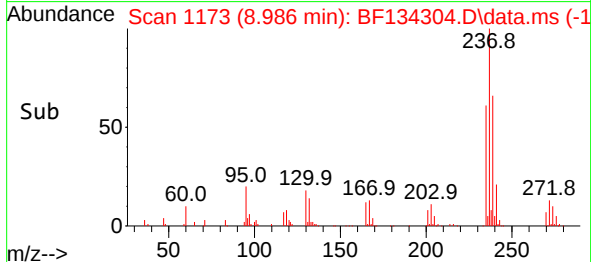
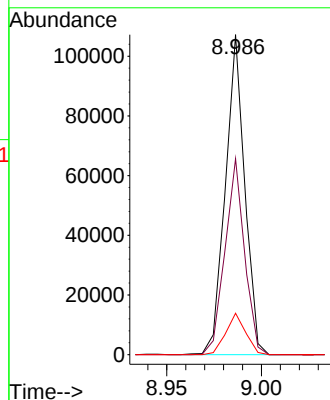
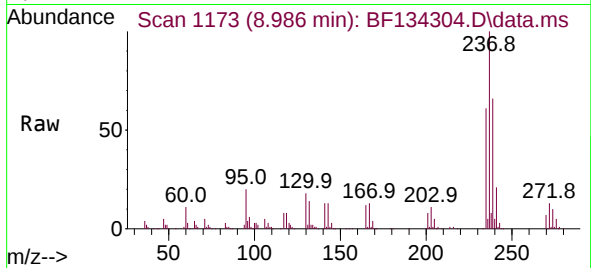




#41
Hexachlorocyclopentadiene
Concen: 39.726 ng
RT: 8.986 min Scan# 1173
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

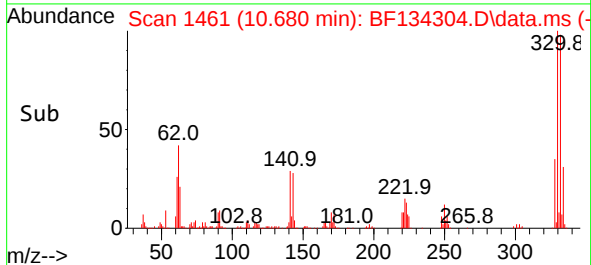
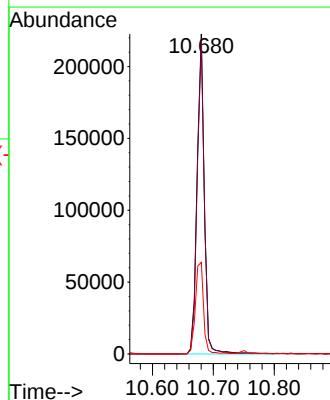
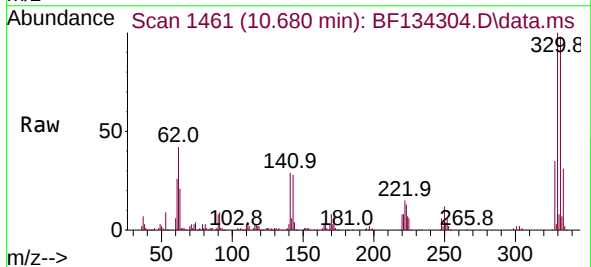
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

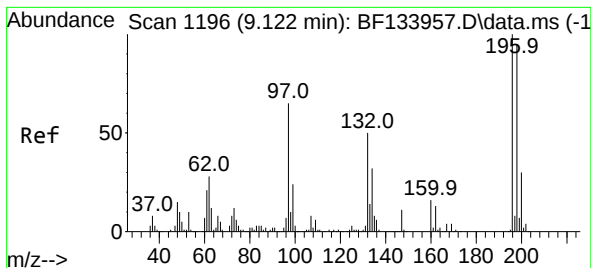
Tgt Ion:237 Resp: 76413
Ion Ratio Lower Upper
237 100
235 61.3 42.8 82.8
272 13.0 0.0 34.6



#42
2,4,6-Tribromophenol
Concen: 107.974 ng
RT: 10.680 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:330 Resp: 185264
Ion Ratio Lower Upper
330 100
332 95.8 77.0 115.6
141 32.4 26.3 39.5





#43

2,4,6-Trichlorophenol

Concen: 46.294 ng

RT: 9.122 min Scan# 1196

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

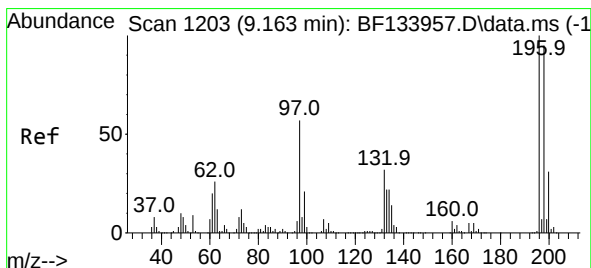
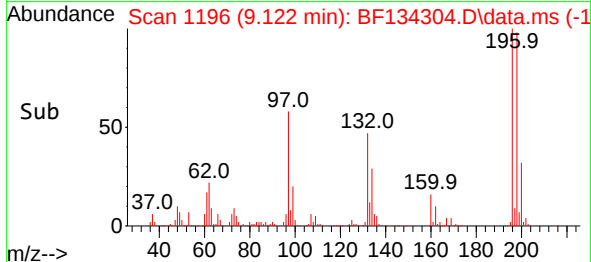
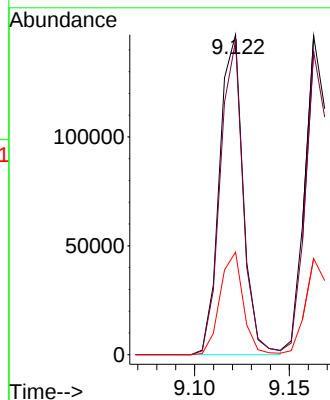
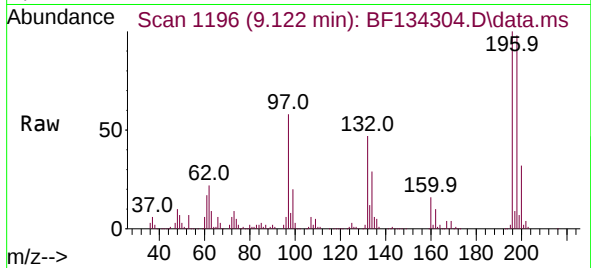
Tgt Ion:196 Resp: 127772

Ion Ratio Lower Upper

196 100

198 98.2 75.6 113.4

200 32.1 24.4 36.6



#44

2,4,5-Trichlorophenol

Concen: 42.486 ng

RT: 9.163 min Scan# 1203

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Tgt Ion:196 Resp: 137933

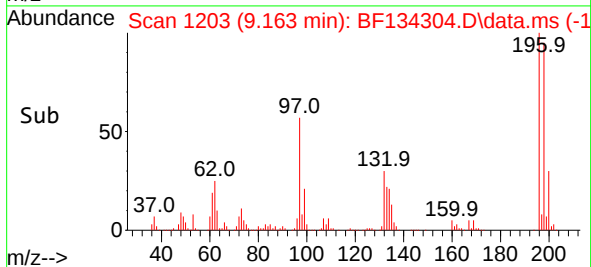
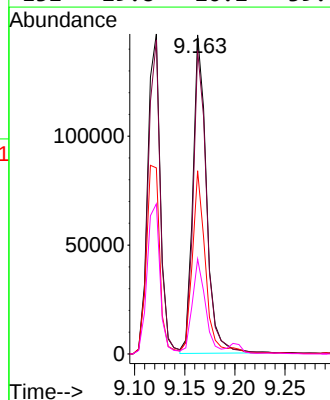
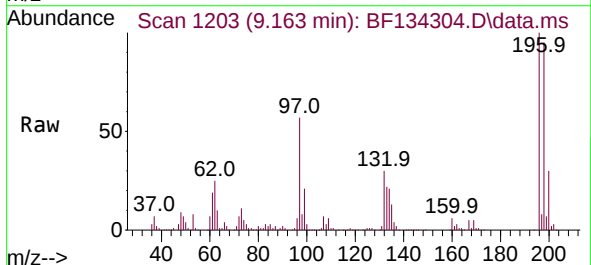
Ion Ratio Lower Upper

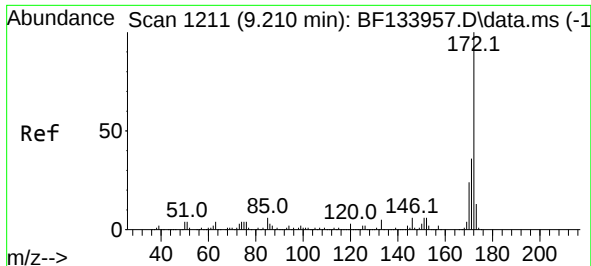
196 100

198 95.1 75.7 113.5

97 57.4 45.8 68.6

132 29.8 26.2 39.4

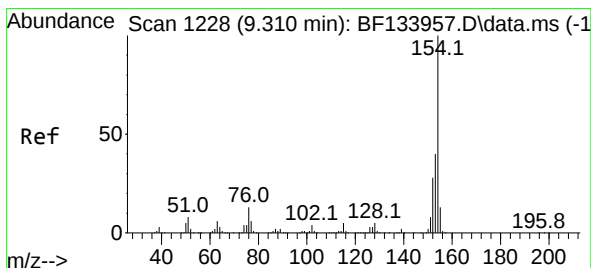
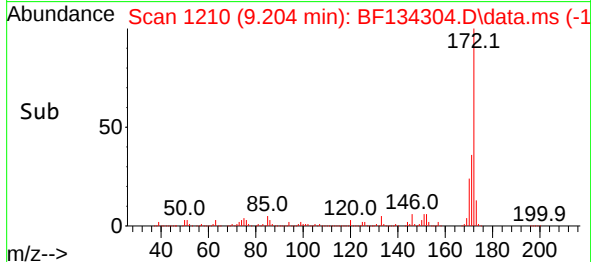
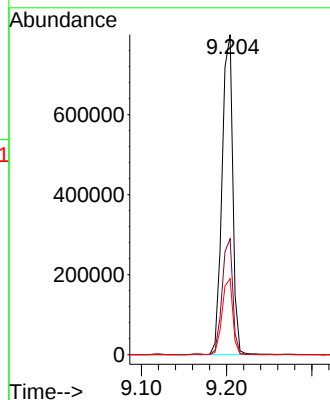
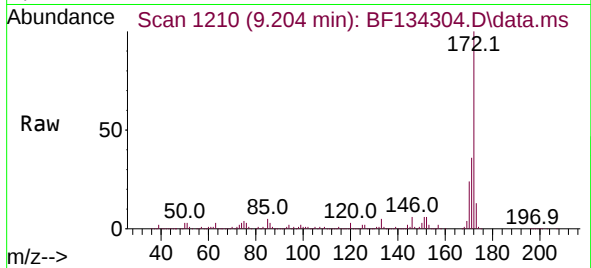




#45
2-Fluorobiphenyl
Concen: 74.258 ng
RT: 9.204 min Scan# 1210
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

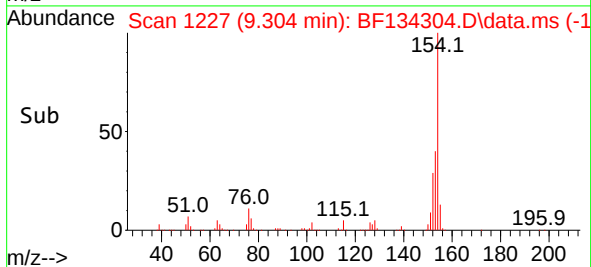
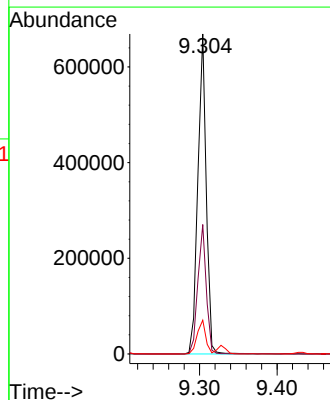
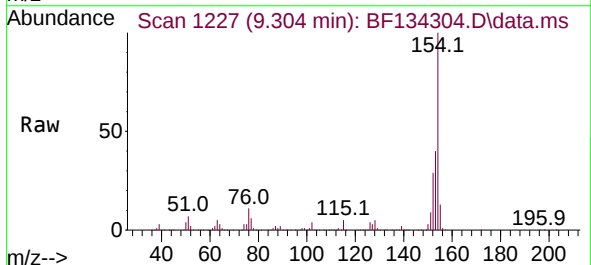
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

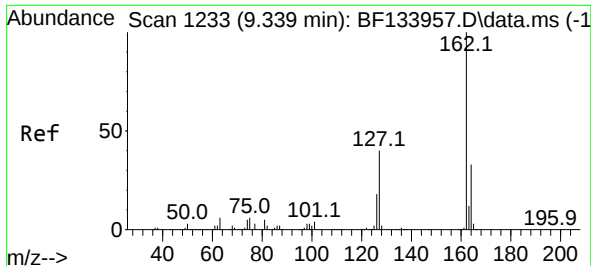
Tgt Ion:172 Resp: 698965
Ion Ratio Lower Upper
172 100
171 36.2 28.6 43.0
170 23.8 19.4 29.0



#46
1,1'-Biphenyl
Concen: 45.824 ng
RT: 9.304 min Scan# 1227
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:154 Resp: 503042
Ion Ratio Lower Upper
154 100
153 40.4 19.8 59.8
76 10.6 0.0 32.9





#47

2-Chloronaphthalene

Concen: 46.491 ng

RT: 9.328 min Scan# 1231

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

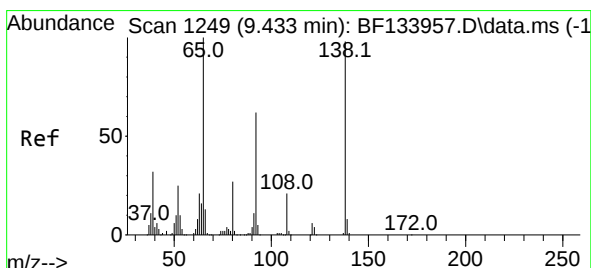
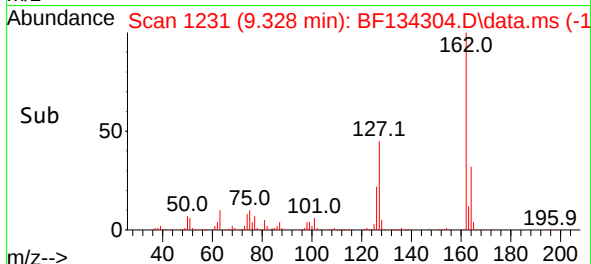
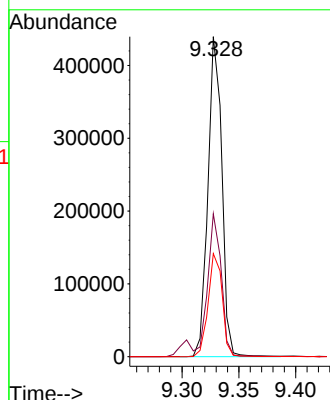
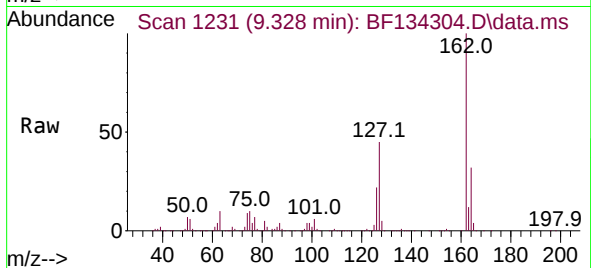
Tgt Ion:162 Resp: 373410

Ion Ratio Lower Upper

162 100

127 44.7 32.9 49.3

164 32.2 26.1 39.1



#48

2-Nitroaniline

Concen: 44.906 ng

RT: 9.427 min Scan# 1248

Delta R.T. -0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

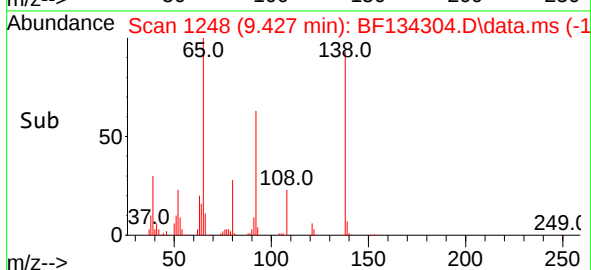
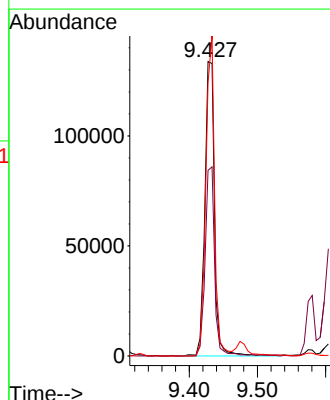
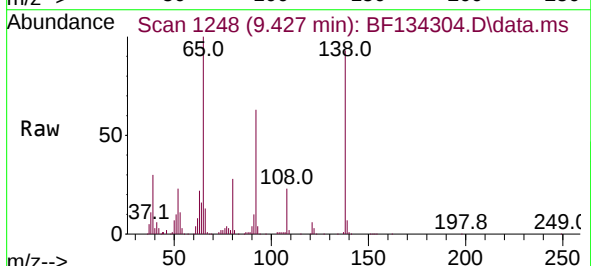
Tgt Ion: 65 Resp: 131450

Ion Ratio Lower Upper

65 100

92 63.1 49.5 74.3

138 92.8 78.0 117.0





#49

Acenaphthylene

Concen: 44.365 ng

RT: 9.745 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

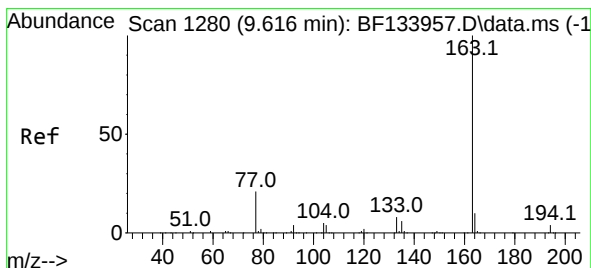
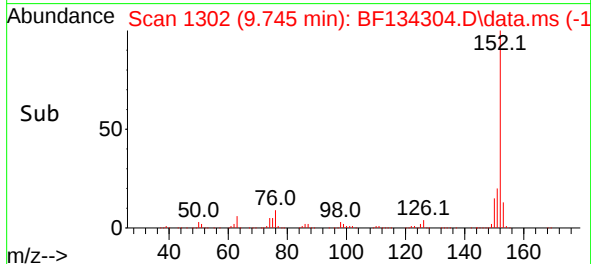
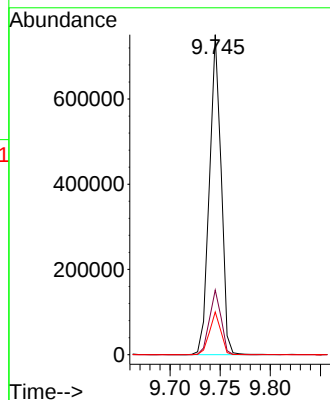
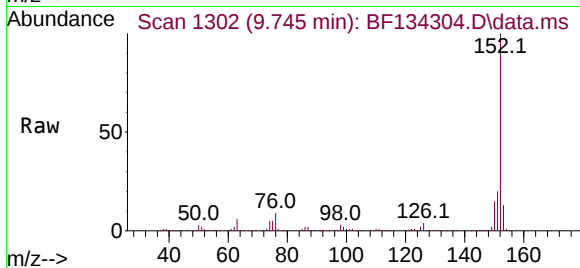
Tgt Ion:152 Resp: 608713

Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.3 10.8 16.2



#50

Dimethylphthalate

Concen: 45.843 ng

RT: 9.610 min Scan# 1279

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

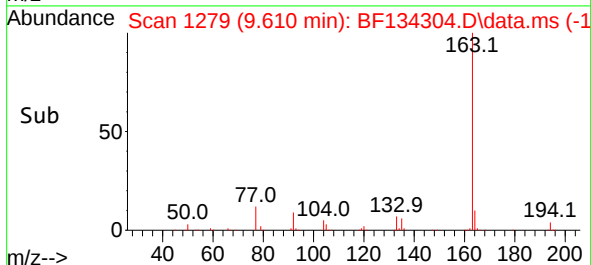
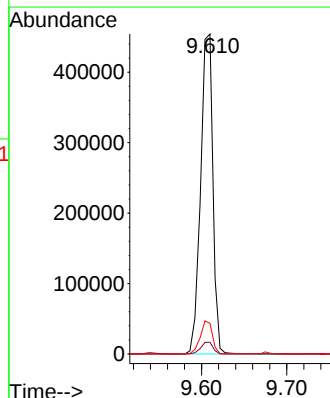
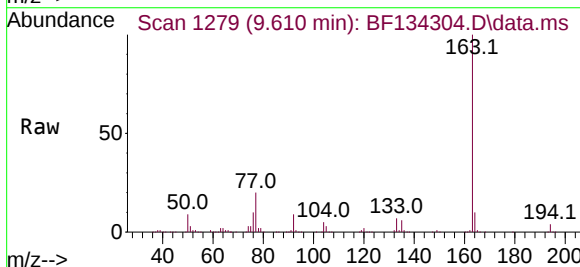
Tgt Ion:163 Resp: 455401

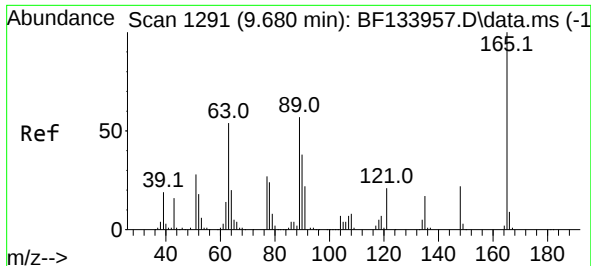
Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.6

164 9.5 8.2 12.2

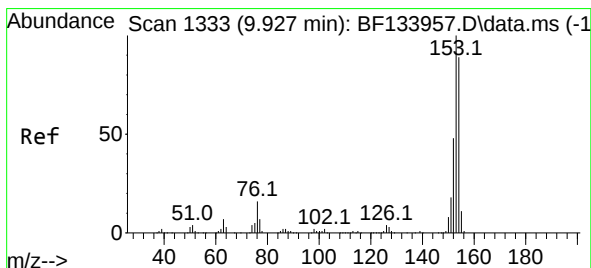
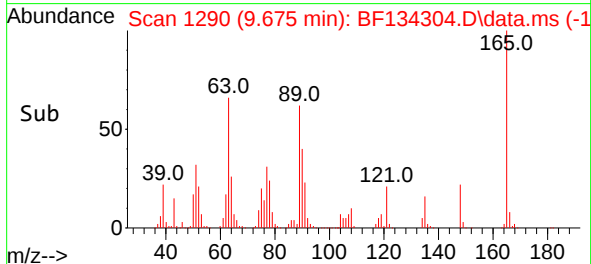
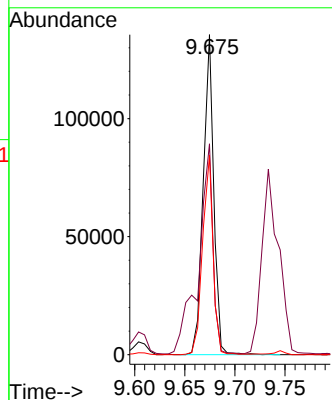
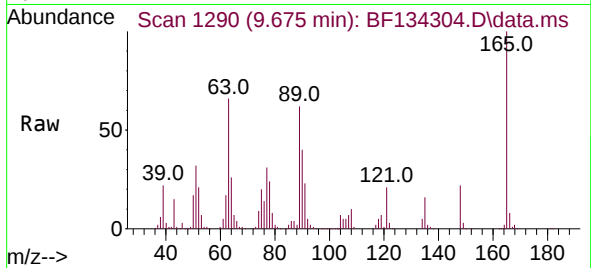




#51
2,6-Dinitrotoluene
Concen: 46.398 ng
RT: 9.675 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

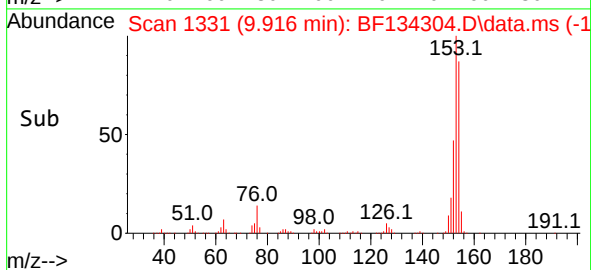
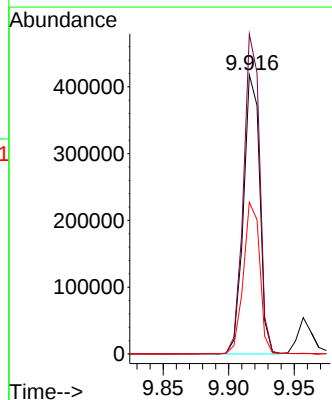
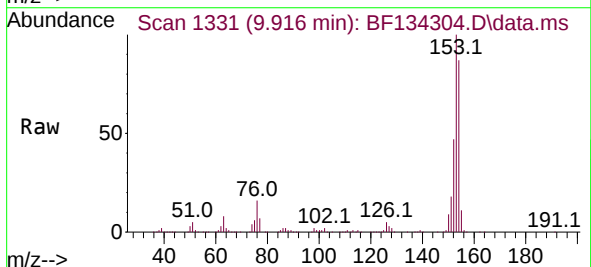
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

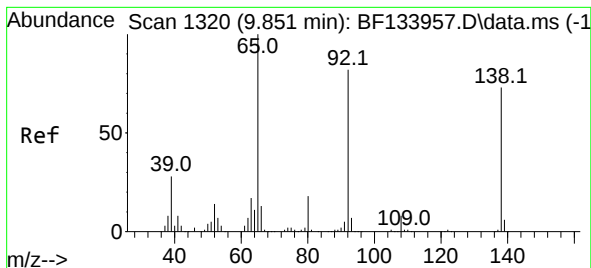
Tgt Ion:165 Resp: 99273
Ion Ratio Lower Upper
165 100
63 65.9 48.5 72.7
89 62.3 45.5 68.3



#52
Acenaphthene
Concen: 45.447 ng
RT: 9.916 min Scan# 1331
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:154 Resp: 361821
Ion Ratio Lower Upper
154 100
153 114.6 89.4 134.2
152 54.3 42.8 64.2





#53

3-Nitroaniline

Concen: 38.002 ng

RT: 9.845 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

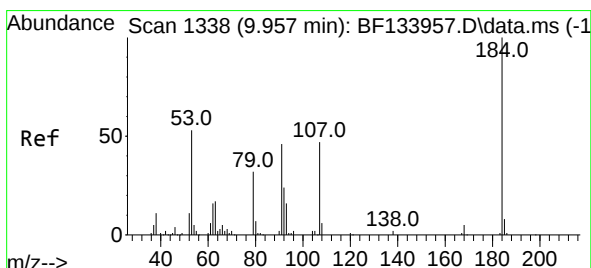
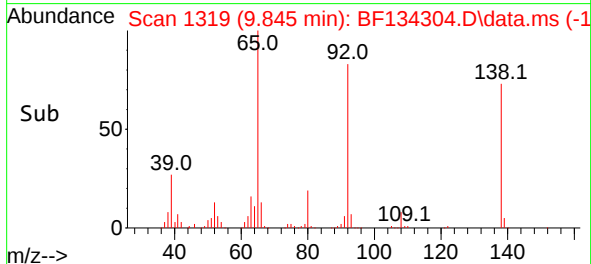
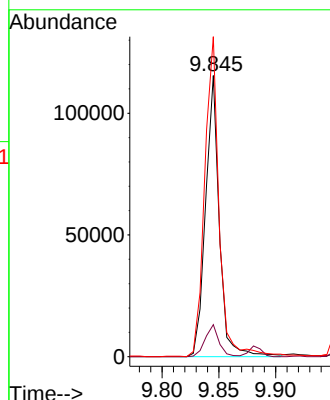
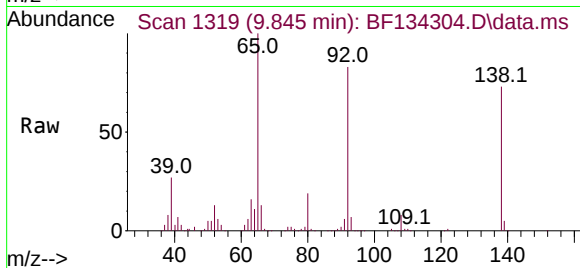
Tgt Ion:138 Resp: 97546

Ion Ratio Lower Upper

138 100

108 11.4 8.4 12.6

92 113.8 90.1 135.1



#54

2,4-Dinitrophenol

Concen: 51.586 ng

RT: 9.957 min Scan# 1338

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

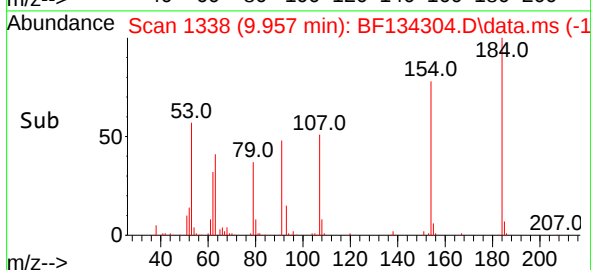
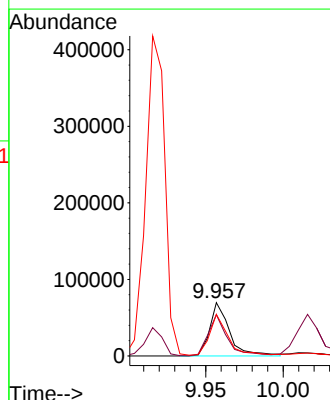
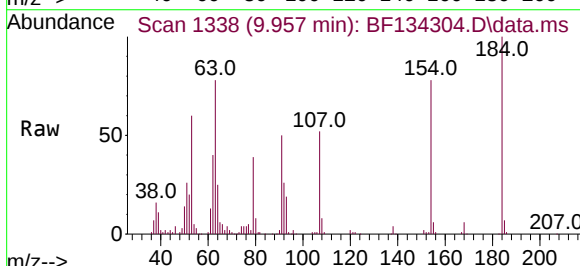
Tgt Ion:184 Resp: 61960

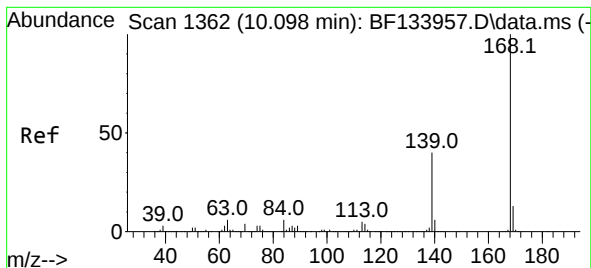
Ion Ratio Lower Upper

184 100

63 77.5 56.9 85.3

154 78.0 55.4 83.0





#55

Dibenzofuran

Concen: 44.063 ng

RT: 10.092 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

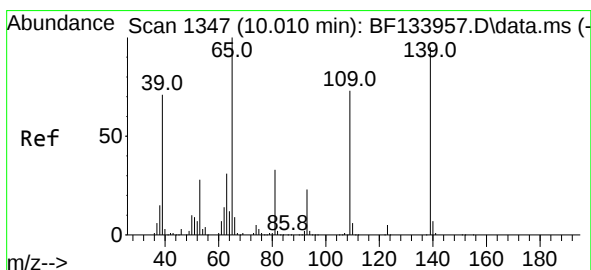
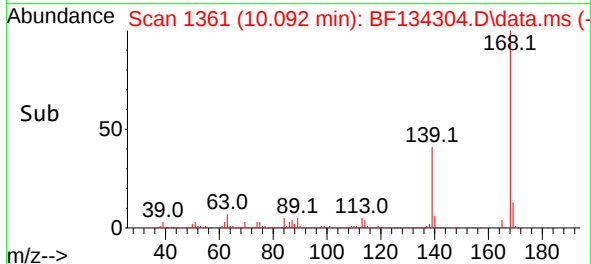
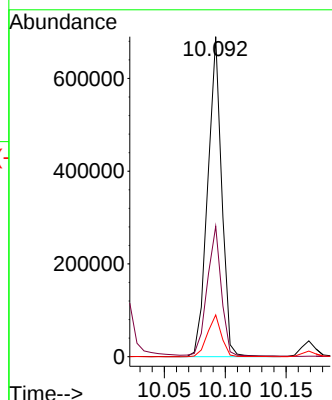
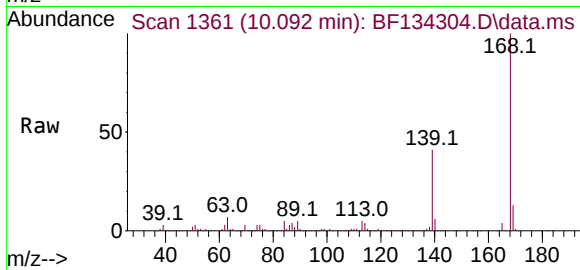
Tgt Ion:168 Resp: 548251

Ion Ratio Lower Upper

168 100

139 40.7 32.0 48.0

169 13.1 10.6 16.0



#56

4-Nitrophenol

Concen: 84.843 ng

RT: 10.016 min Scan# 1348

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

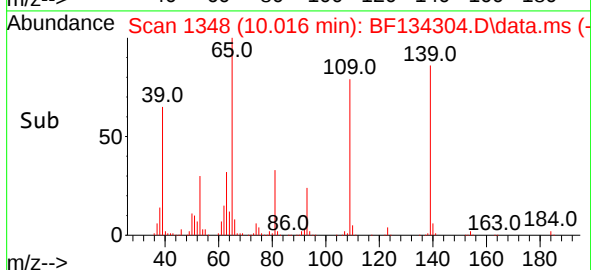
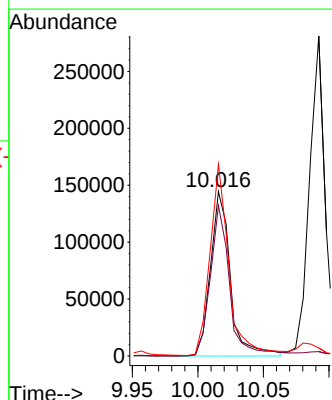
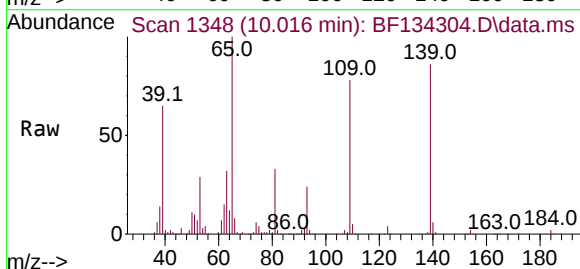
Tgt Ion:139 Resp: 152332

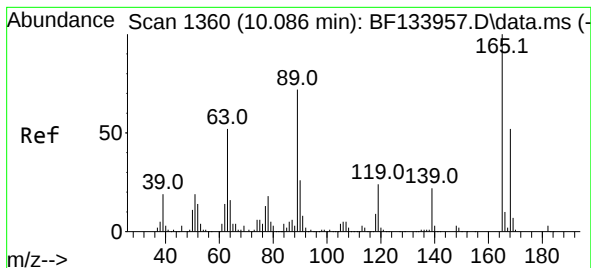
Ion Ratio Lower Upper

139 100

109 91.5 56.8 96.8

65 116.6 86.1 126.1

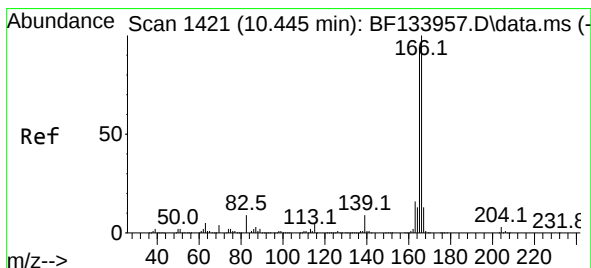
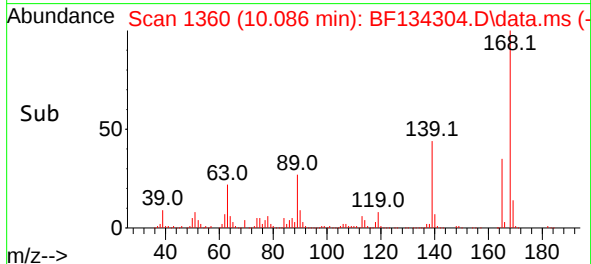
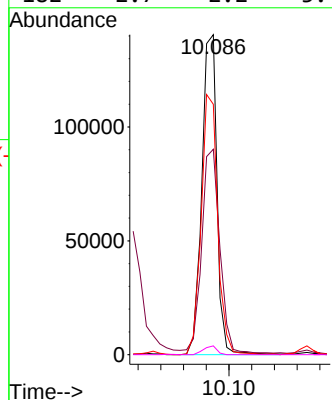
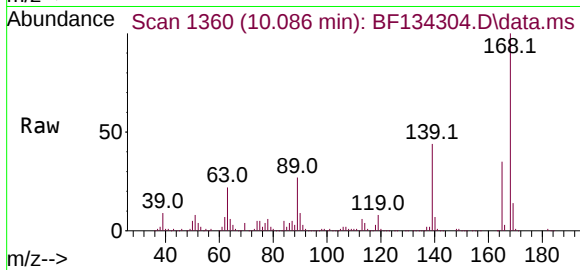




#57
2,4-Dinitrotoluene
Concen: 46.264 ng
RT: 10.086 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

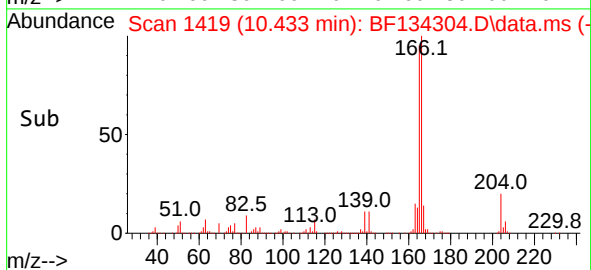
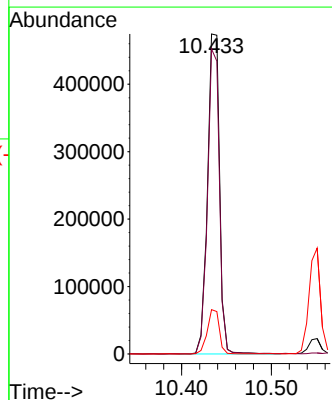
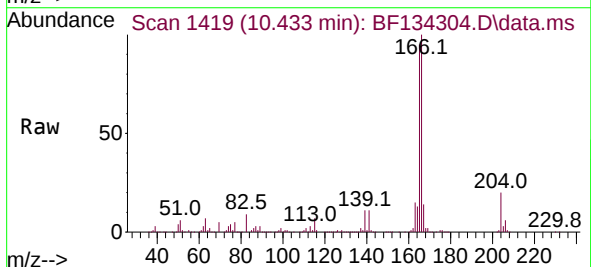
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

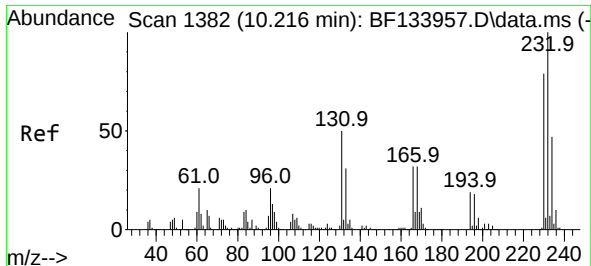
Tgt Ion:165 Resp: 130724
Ion Ratio Lower Upper
165 100
63 64.2 42.2 63.2#
89 78.2 57.4 86.2
182 2.7 2.2 3.4



#58
Fluorene
Concen: 45.715 ng
RT: 10.433 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:166 Resp: 442524
Ion Ratio Lower Upper
166 100
165 95.3 75.0 112.4
167 13.8 10.6 15.8

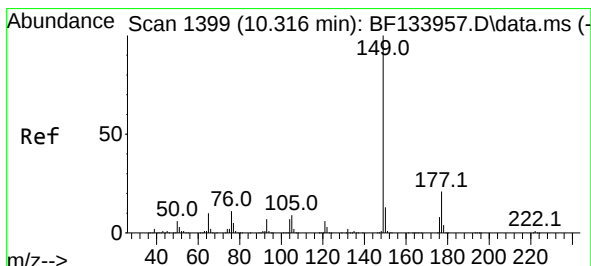
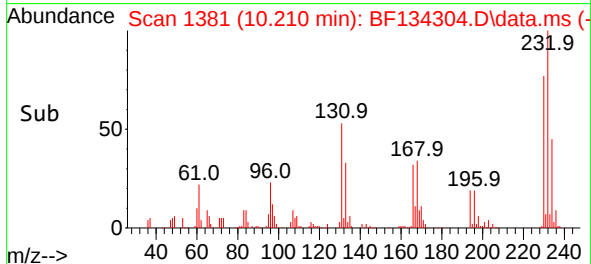
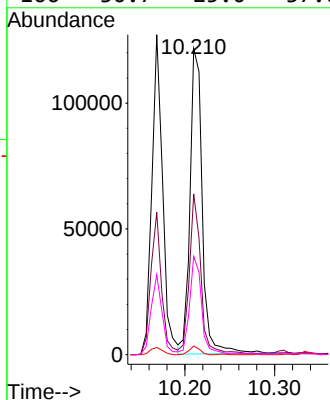
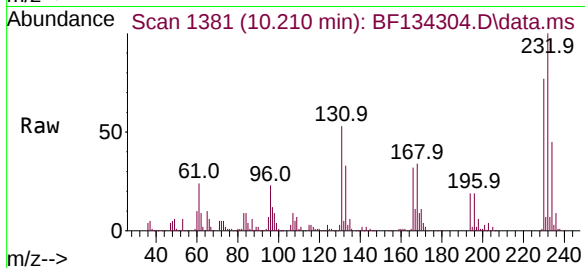




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.205 ng
RT: 10.210 min Scan# 1382
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

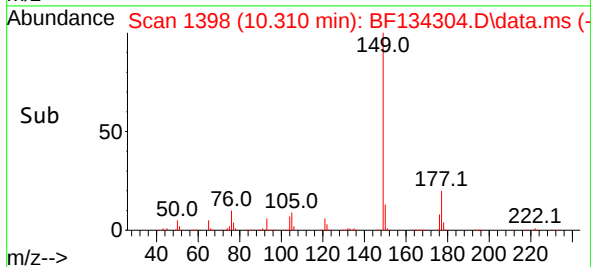
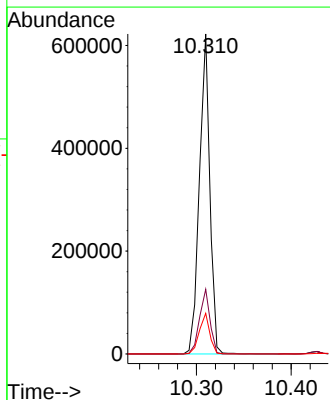
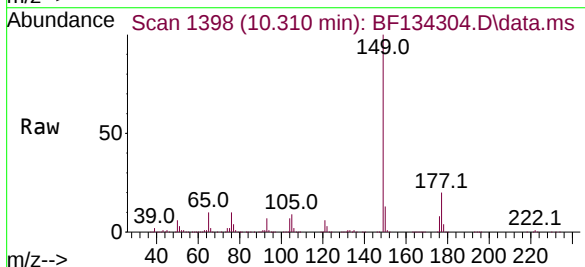
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

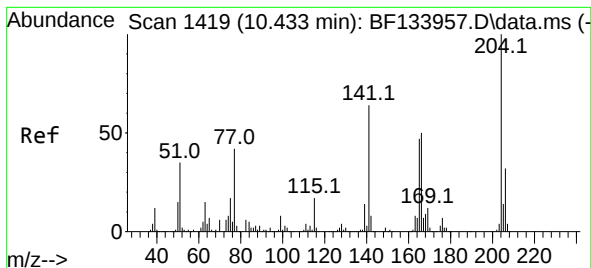
Tgt Ion:232 Resp: 115763
Ion Ratio Lower Upper
232 100
131 48.3 39.3 58.9
130 2.4 1.8 2.6
166 30.7 25.0 37.6



#60
Diethylphthalate
Concen: 45.932 ng
RT: 10.310 min Scan# 1398
Delta R.T. 0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:149 Resp: 475380
Ion Ratio Lower Upper
149 100
177 20.2 17.0 25.6
150 12.7 10.2 15.2

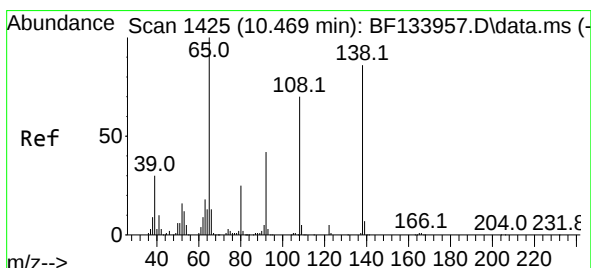
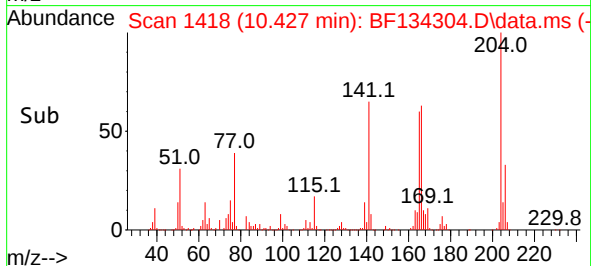
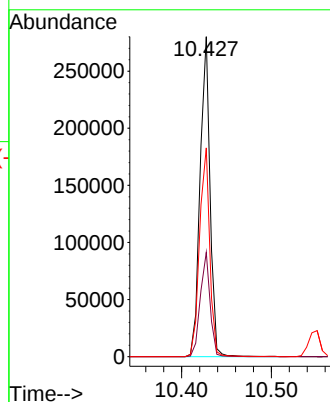
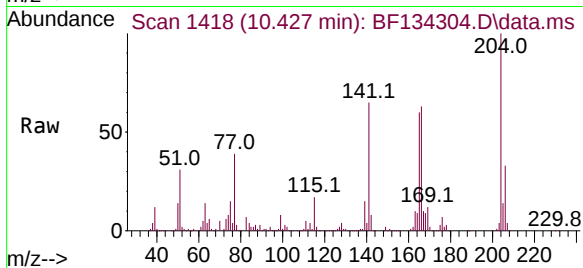




#61
4-Chlorophenyl-phenylether
Concen: 46.220 ng
RT: 10.427 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

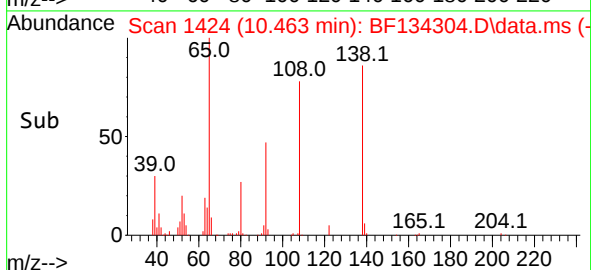
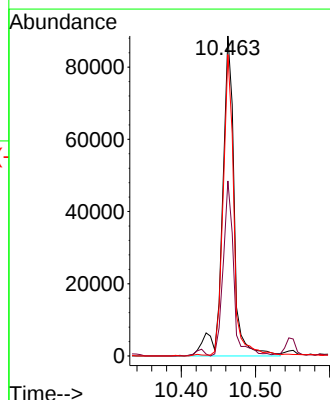
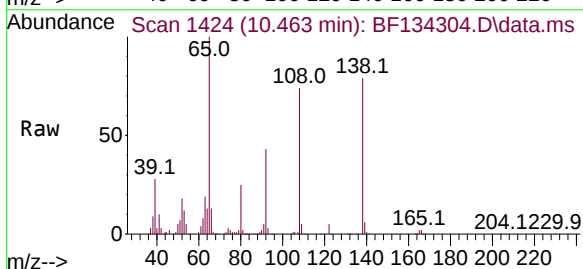
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

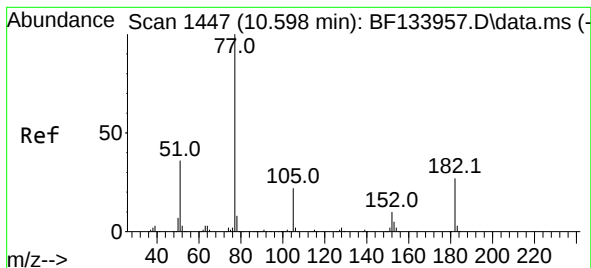
Tgt Ion:204 Resp: 215614
Ion Ratio Lower Upper
204 100
206 32.6 25.8 38.6
141 65.3 51.5 77.3



#62
4-Nitroaniline
Concen: 37.755 ng
RT: 10.463 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:138 Resp: 97665
Ion Ratio Lower Upper
138 100
92 54.7 29.7 69.7
108 94.2 62.1 102.1





#63

Azobenzene

Concen: 44.536 ng

RT: 10.586 min Scan# 1445

Delta R.T. -0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

Tgt Ion: 77 Resp: 436008

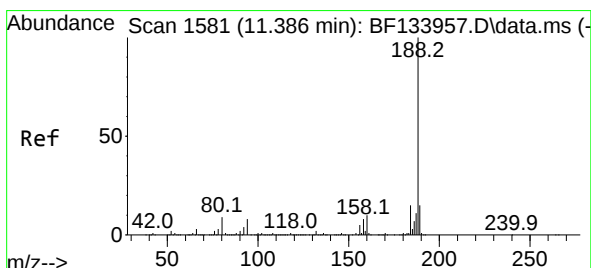
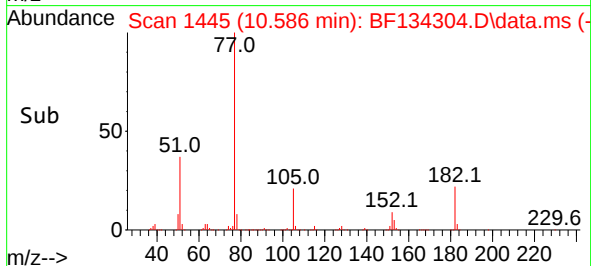
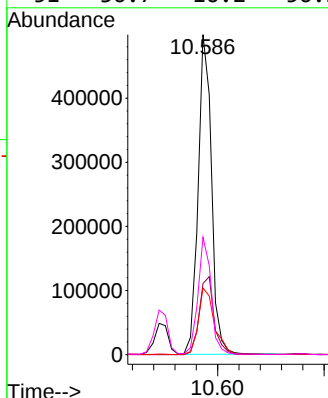
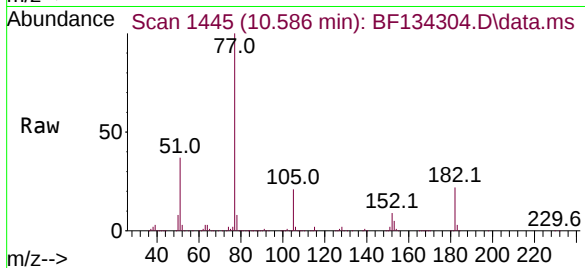
Ion Ratio Lower Upper

77 100

182 22.2 6.8 46.8

105 20.8 2.3 42.3

51 36.7 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: BF134304.D

Acq: 14 Jul 2023 23:09

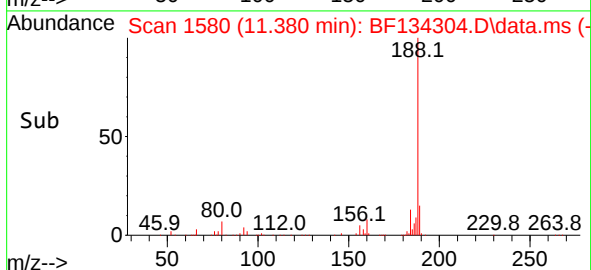
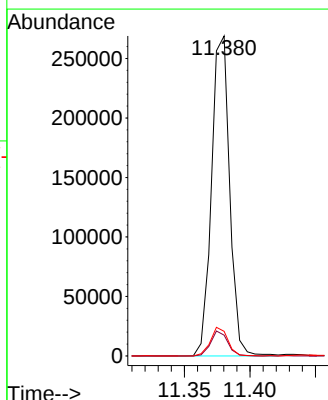
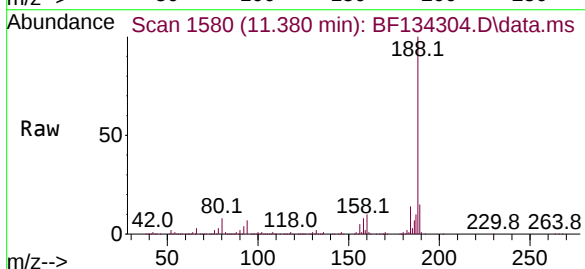
Tgt Ion:188 Resp: 259295

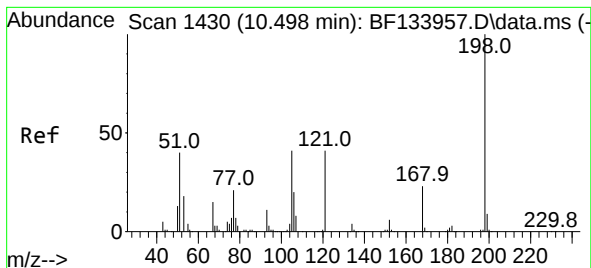
Ion Ratio Lower Upper

188 100

94 6.5 6.4 9.6

80 7.7 7.3 10.9

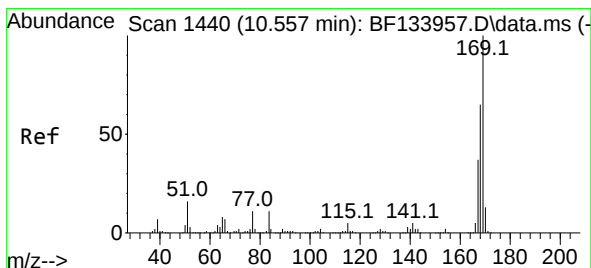
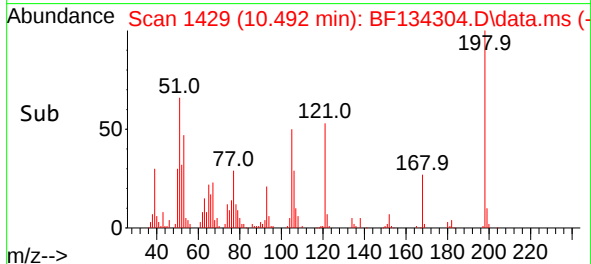
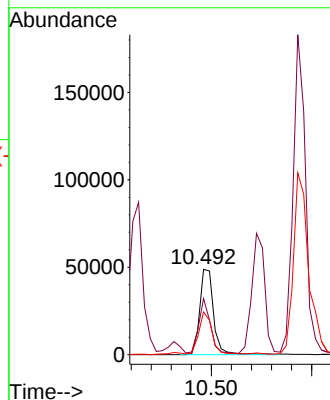
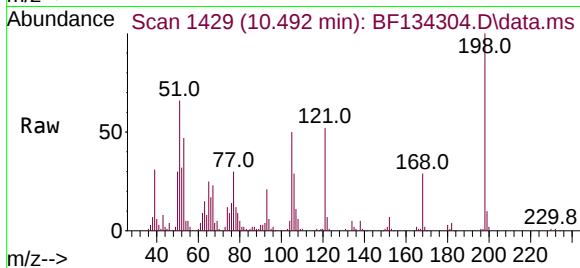




#65
4,6-Dinitro-2-methylphenol
Concen: 33.417 ng
RT: 10.492 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

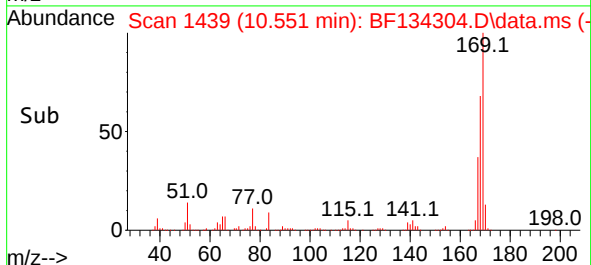
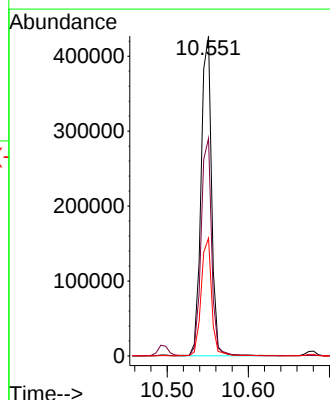
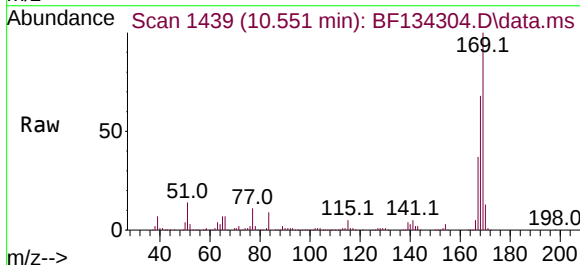
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

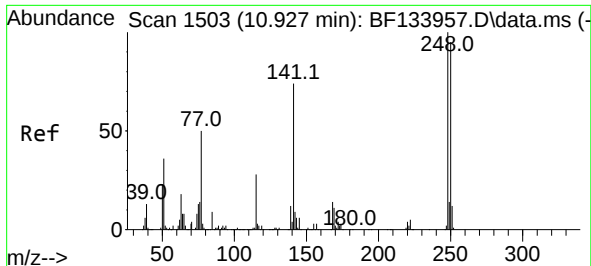
Tgt Ion:198 Resp: 47240
Ion Ratio Lower Upper
198 100
51 65.7 29.3 69.3
105 50.0 22.4 62.4



#66
n-Nitrosodiphenylamine
Concen: 46.401 ng
RT: 10.551 min Scan# 1439
Delta R.T. 0.006 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:169 Resp: 384411
Ion Ratio Lower Upper
169 100
168 68.0 52.3 78.5
167 36.8 29.4 44.0

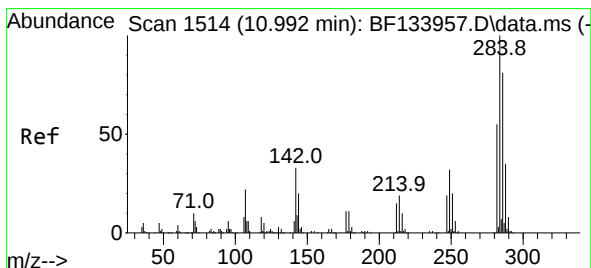
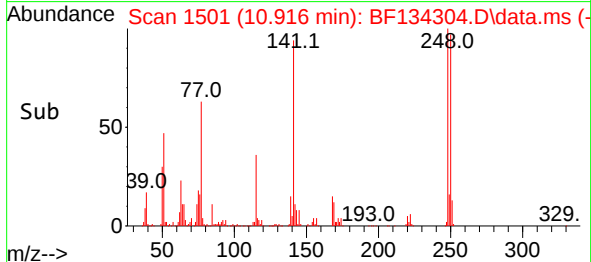
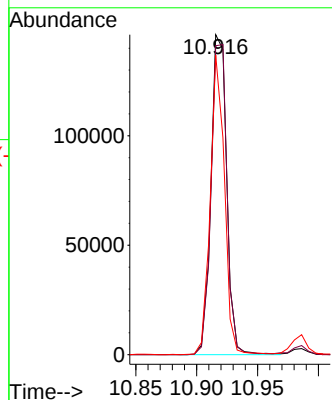
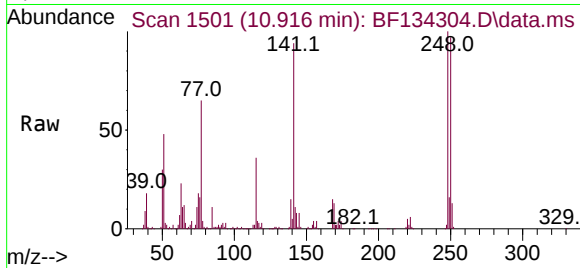




#67
4-Bromophenyl-phenylether
Concen: 47.509 ng
RT: 10.916 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

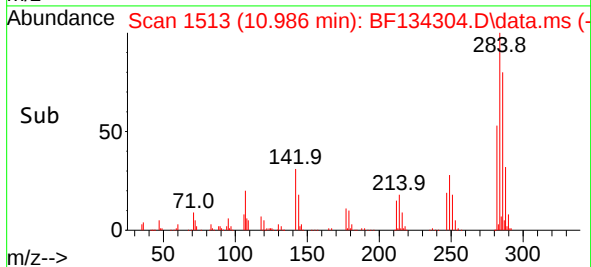
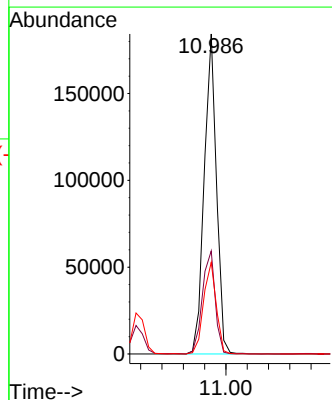
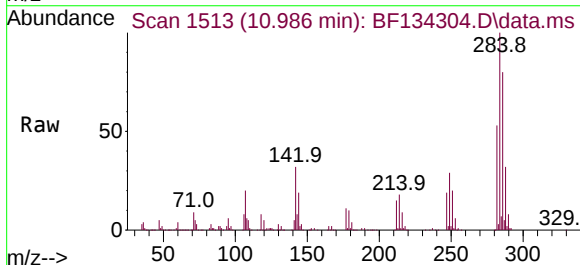
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

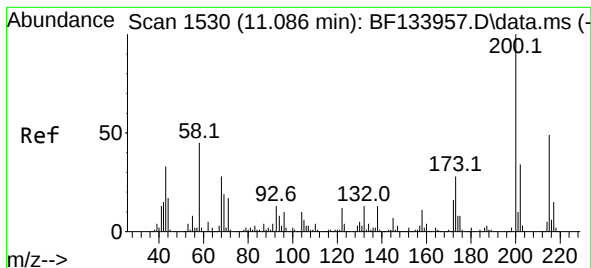
Tgt Ion:248 Resp: 130934
Ion Ratio Lower Upper
248 100
250 96.5 76.2 114.4
141 93.7 59.0 88.4#



#68
Hexachlorobenzene
Concen: 50.477 ng
RT: 10.986 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:284 Resp: 147706
Ion Ratio Lower Upper
284 100
142 32.2 26.6 40.0
249 28.6 25.5 38.3





#69

Atrazine

Concen: 56.513 ng

RT: 11.080 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

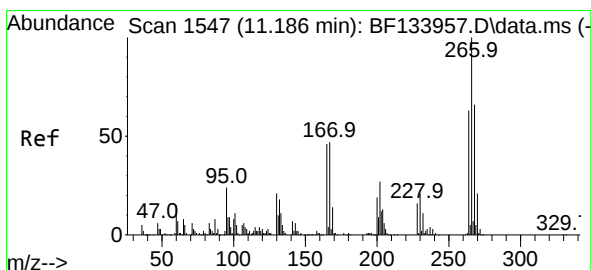
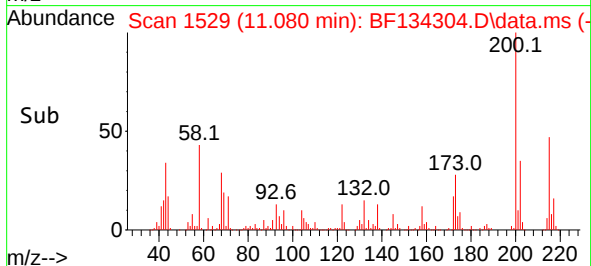
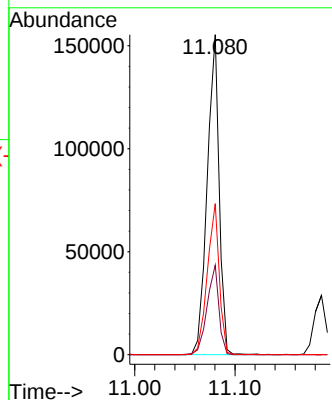
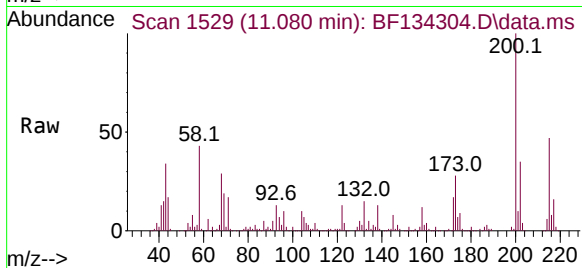
Tgt Ion:200 Resp: 129504

Ion Ratio Lower Upper

200 100

173 28.0 8.0 48.0

215 47.2 29.3 69.3



#70

Pentachlorophenol

Concen: 78.082 ng

RT: 11.186 min Scan# 1547

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

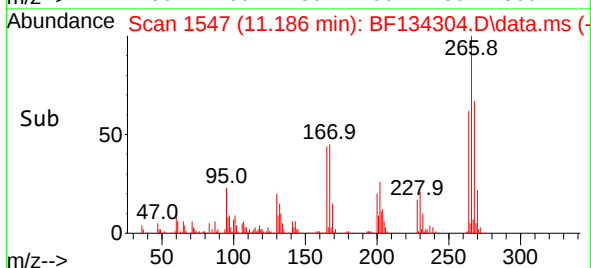
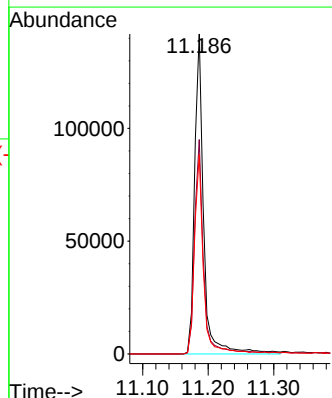
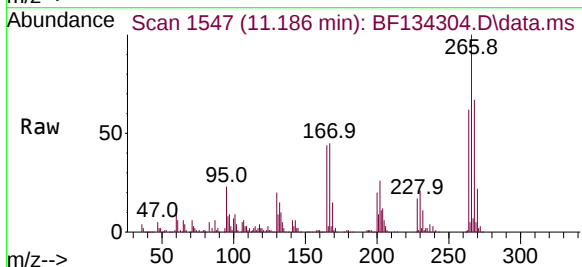
Tgt Ion:266 Resp: 136615

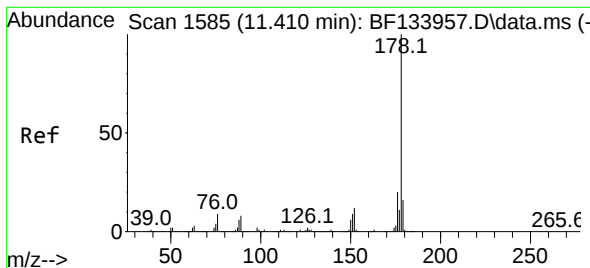
Ion Ratio Lower Upper

266 100

268 67.0 52.6 79.0

264 62.3 50.6 76.0





#71

Phenanthrene

Concen: 47.676 ng

RT: 11.404 min Scan# 1584

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

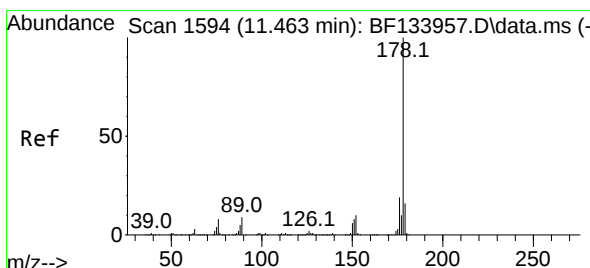
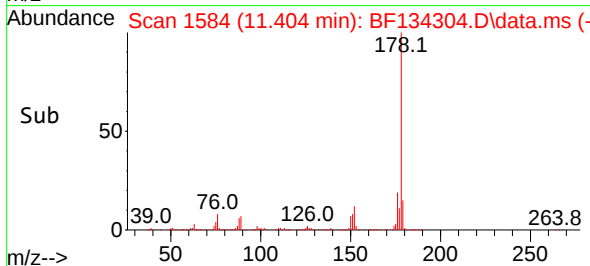
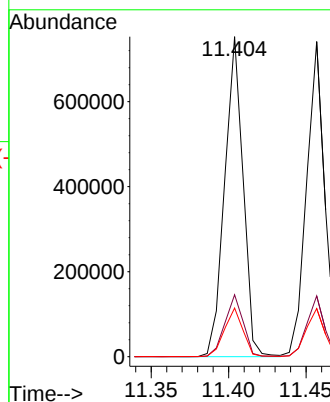
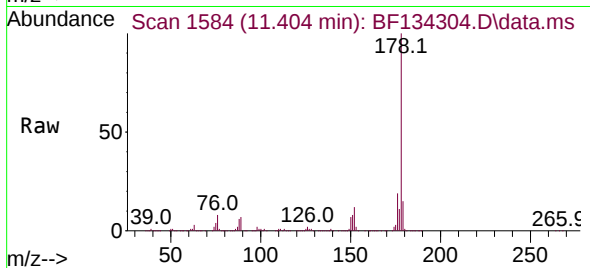
Tgt Ion:178 Resp: 622329

Ion Ratio Lower Upper

178 100

176 19.4 16.0 24.0

179 15.2 12.4 18.6



#72

Anthracene

Concen: 44.746 ng

RT: 11.457 min Scan# 1593

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

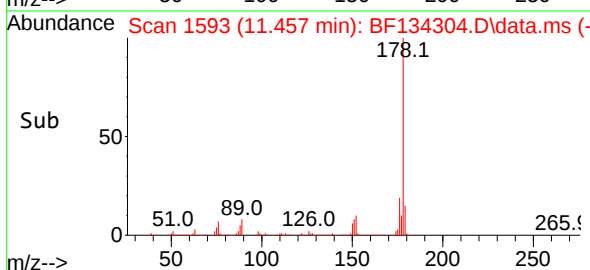
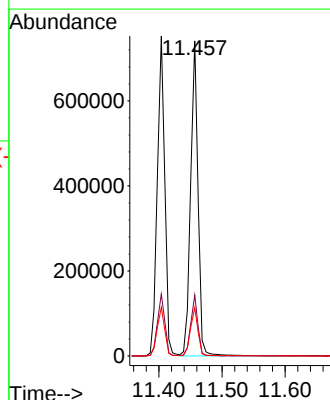
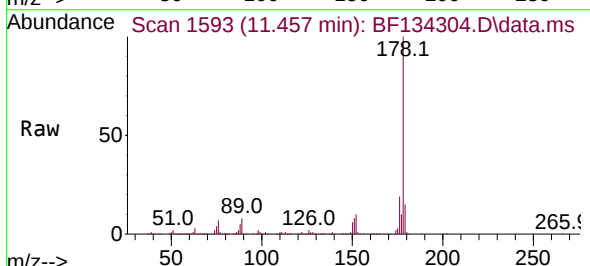
Tgt Ion:178 Resp: 607515

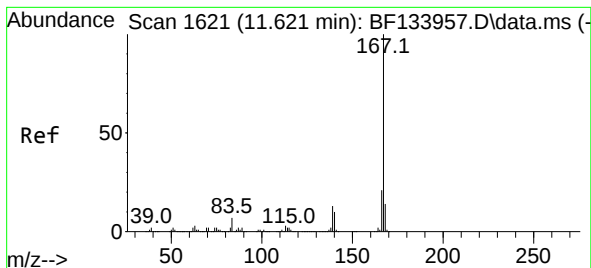
Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.3 12.4 18.6





#73

Carbazole

Concen: 45.569 ng

RT: 11.616 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

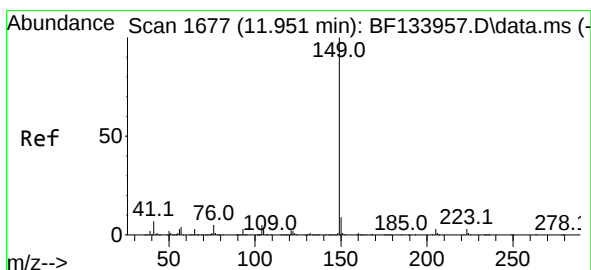
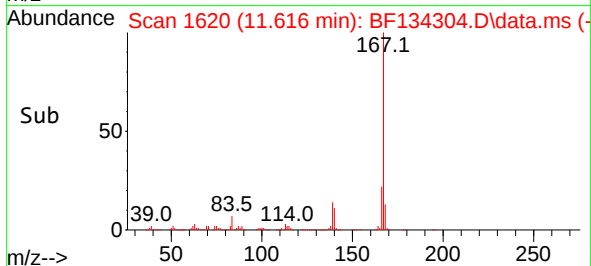
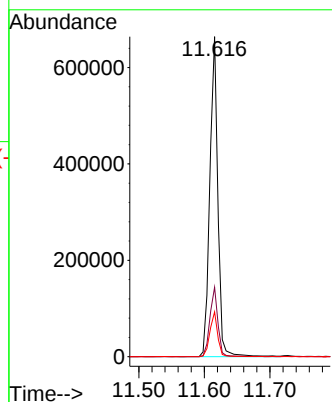
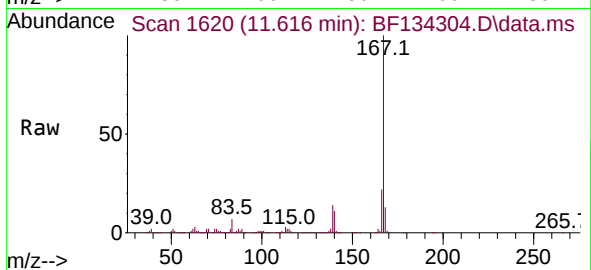
Tgt Ion:167 Resp: 566291

Ion Ratio Lower Upper

167 100

166 21.7 17.0 25.6

139 14.0 10.4 15.6



#74

Di-n-butylphthalate

Concen: 49.332 ng

RT: 11.939 min Scan# 1675

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

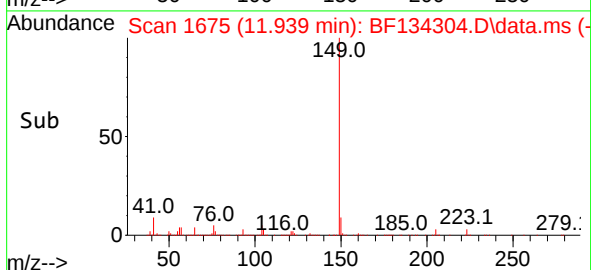
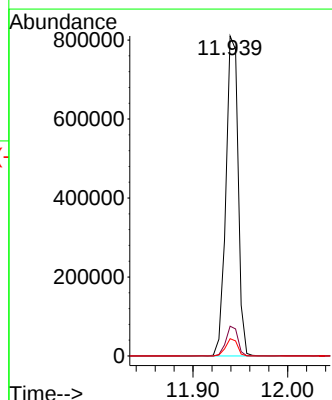
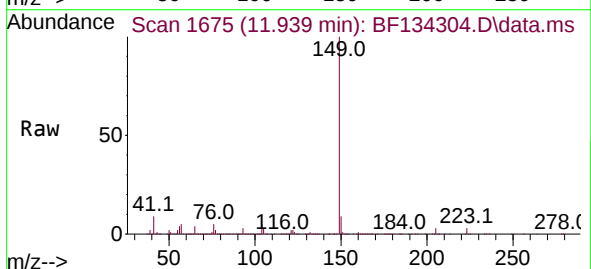
Tgt Ion:149 Resp: 729033

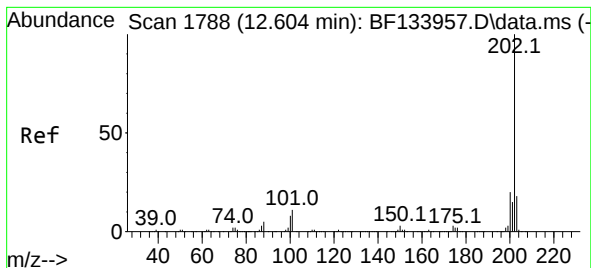
Ion Ratio Lower Upper

149 100

150 9.3 7.1 10.7

104 5.4 4.0 6.0





#75

Fluoranthene

Concen: 53.447 ng

RT: 12.604 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

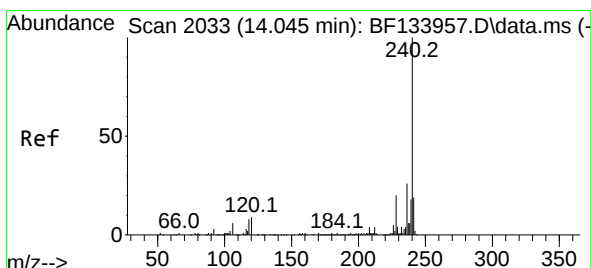
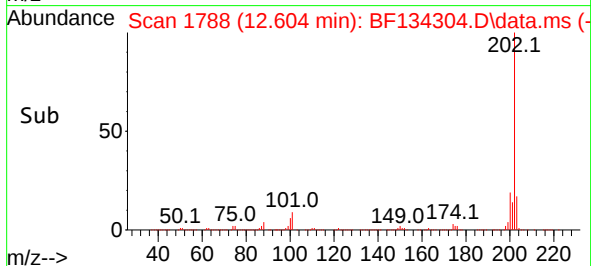
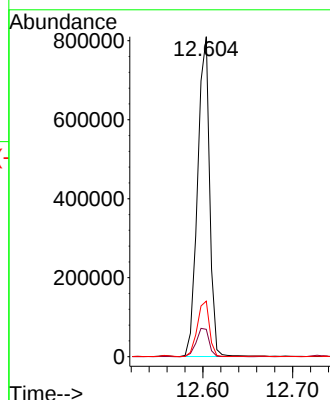
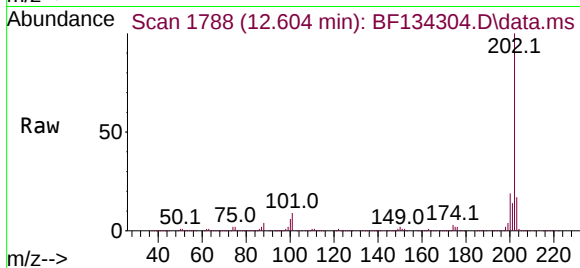
Tgt Ion:202 Resp: 754235

Ion Ratio Lower Upper

202 100

101 8.6 0.0 31.0

203 17.4 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2033

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

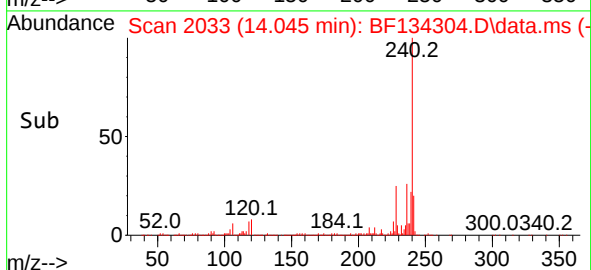
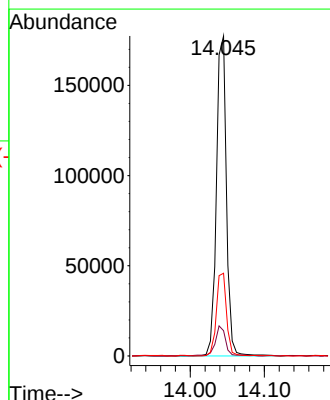
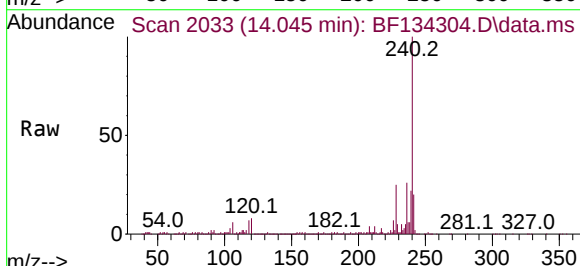
Tgt Ion:240 Resp: 165682

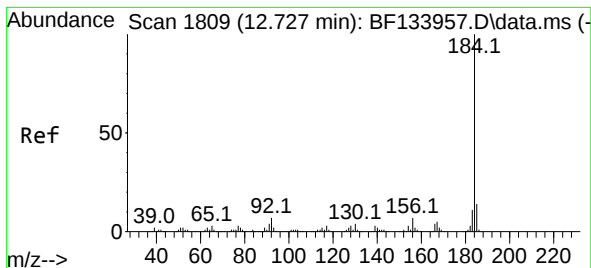
Ion Ratio Lower Upper

240 100

120 7.9 7.4 11.0

236 25.9 21.0 31.6





#77

Benzidine

Concen: 97.110 ng

RT: 12.727 min Scan# 1809

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

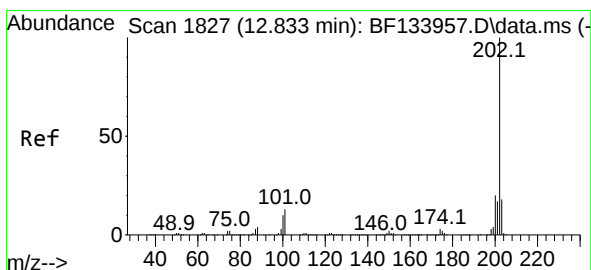
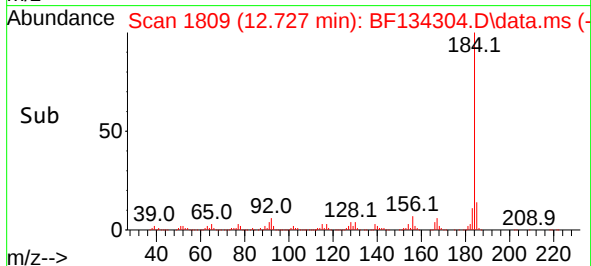
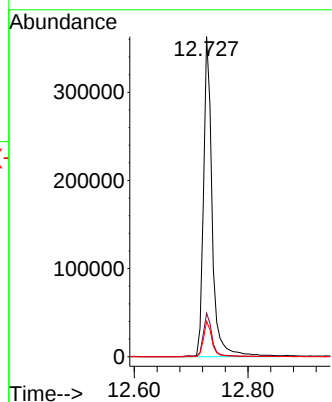
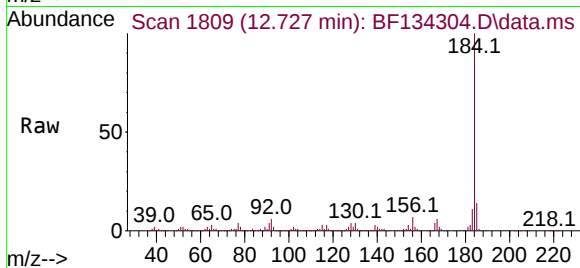
Tgt Ion:184 Resp: 382836

Ion Ratio Lower Upper

184 100

185 13.6 11.6 17.4

183 11.0 8.8 13.2



#78

Pyrene

Concen: 47.614 ng

RT: 12.833 min Scan# 1827

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

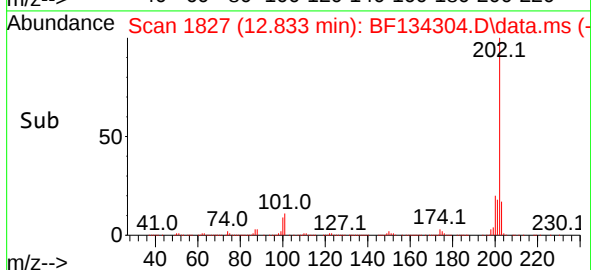
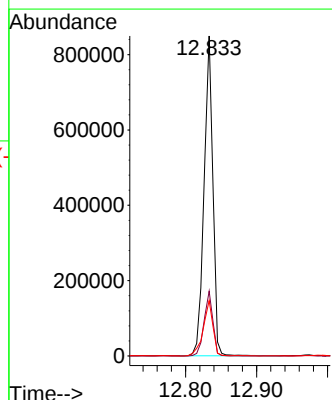
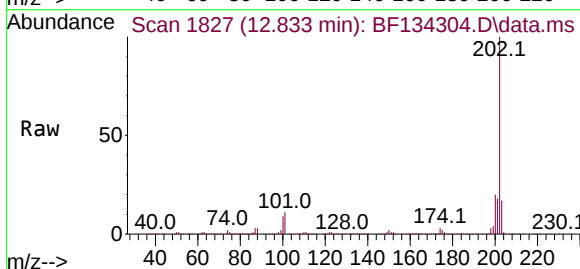
Tgt Ion:202 Resp: 734154

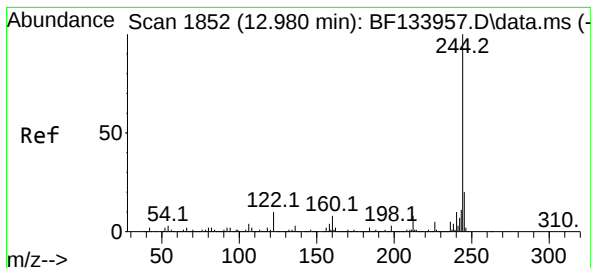
Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

203 17.3 14.3 21.5





#79

Terphenyl-d14

Concen: 68.000 ng

RT: 12.974 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

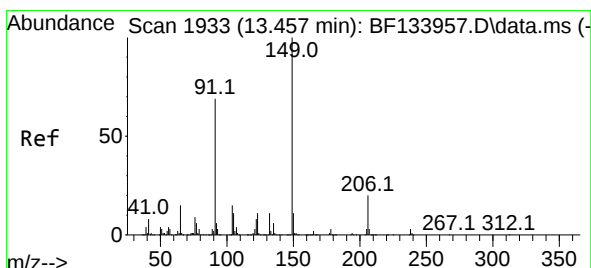
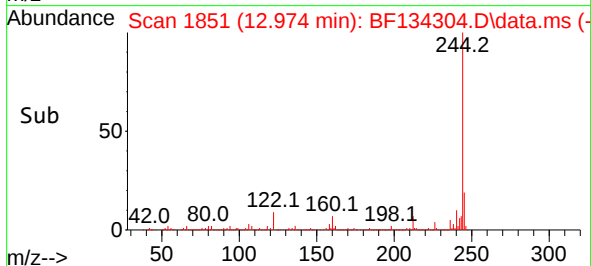
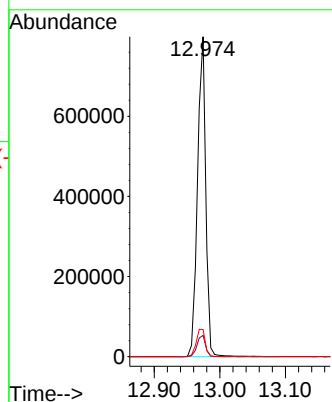
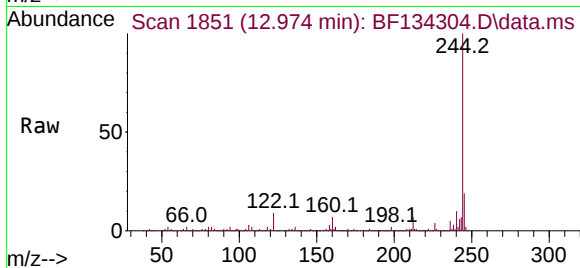
Tgt Ion:244 Resp: 700032

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

122 8.5 8.3 12.5



#80

Butylbenzylphthalate

Concen: 48.192 ng

RT: 13.451 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

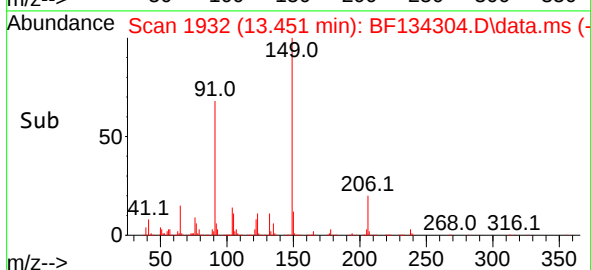
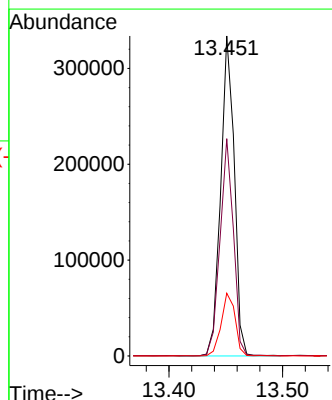
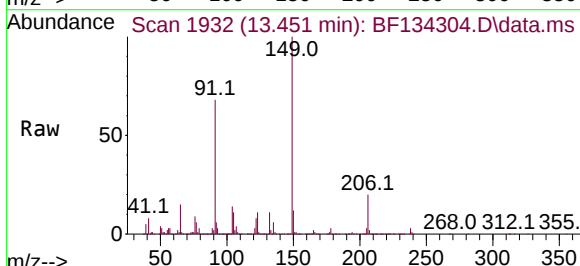
Tgt Ion:149 Resp: 278689

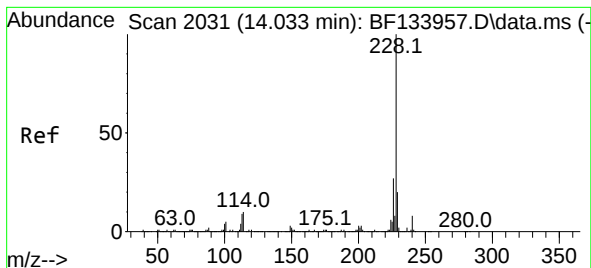
Ion Ratio Lower Upper

149 100

91 67.9 55.1 82.7

206 19.6 15.7 23.5





#81

Benzo(a)anthracene

Concen: 51.014 ng

RT: 14.033 min Scan# 2031

Delta R.T. 0.006 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

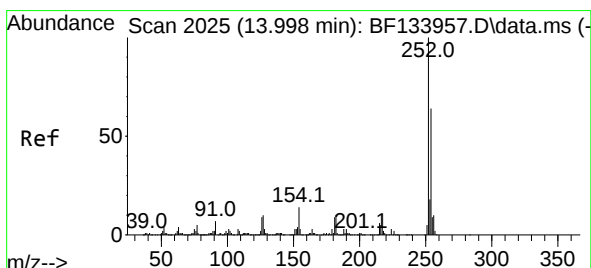
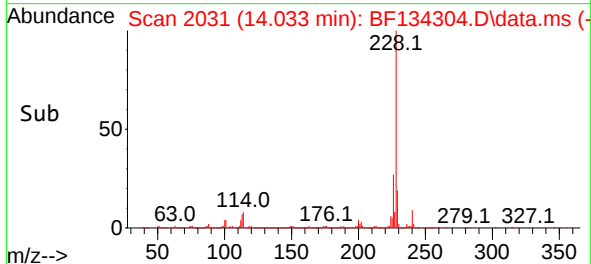
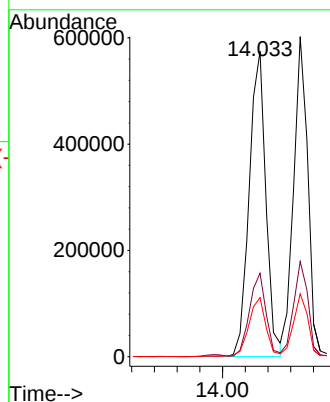
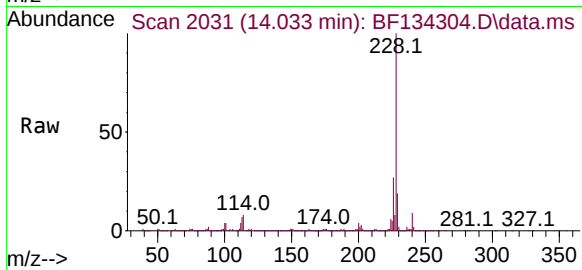
Tgt Ion:228 Resp: 586169

Ion Ratio Lower Upper

228 100

226 27.3 22.0 33.0

229 19.3 16.3 24.5



#82

3,3'-Dichlorobenzidine

Concen: 53.575 ng

RT: 13.992 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

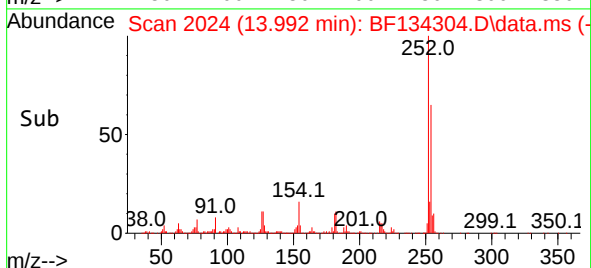
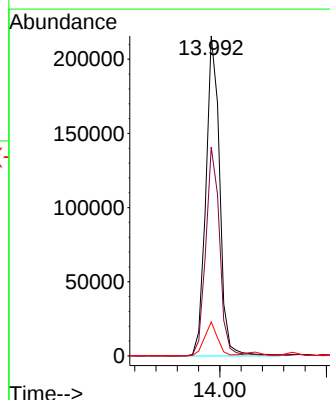
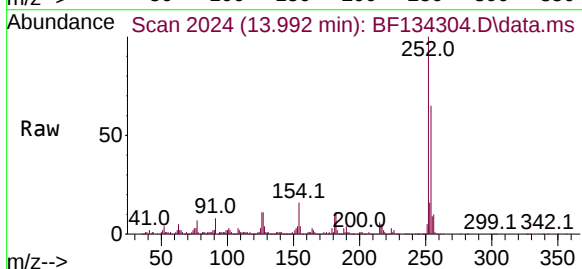
Tgt Ion:252 Resp: 195034

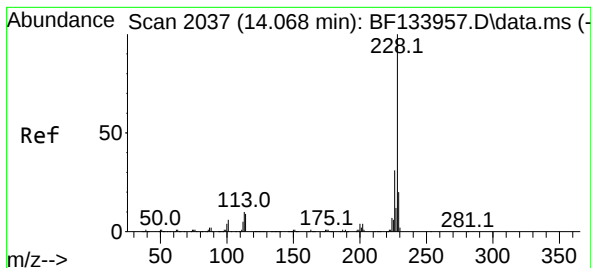
Ion Ratio Lower Upper

252 100

254 65.3 51.4 77.0

126 10.6 7.4 11.2





#83

Chrysene

Concen: 46.950 ng

RT: 14.068 min Scan# 2037

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

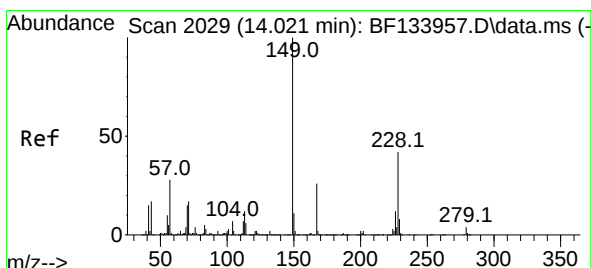
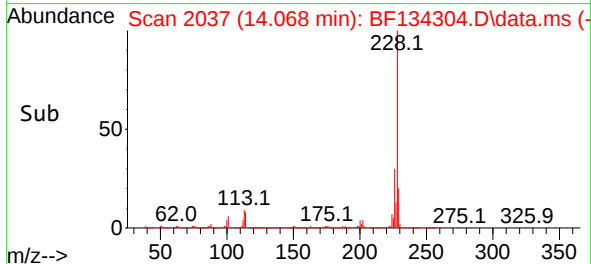
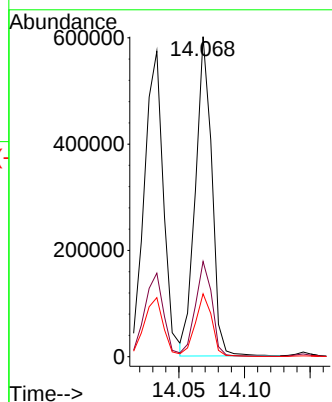
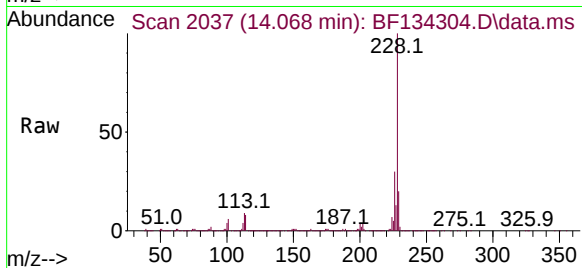
Tgt Ion:228 Resp: 522512

Ion Ratio Lower Upper

228 100

226 29.7 24.4 36.6

229 19.6 16.1 24.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 55.616 ng

RT: 14.015 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

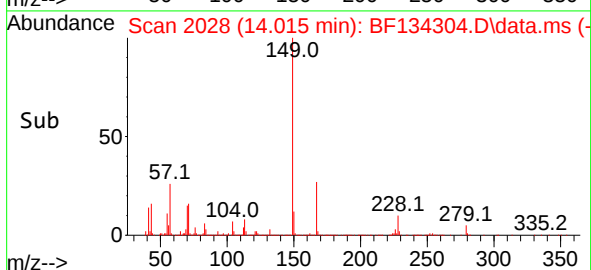
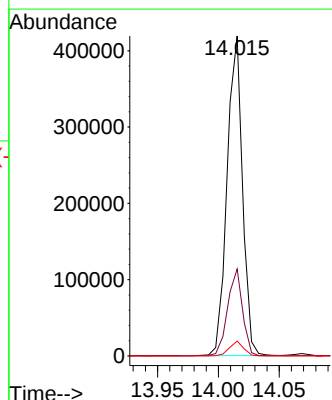
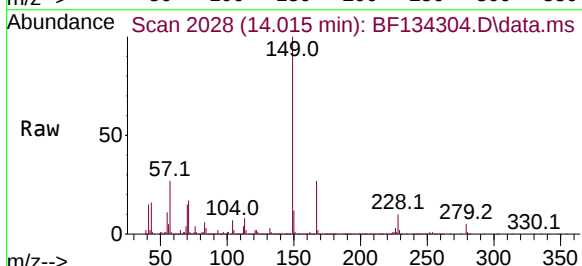
Tgt Ion:149 Resp: 369560

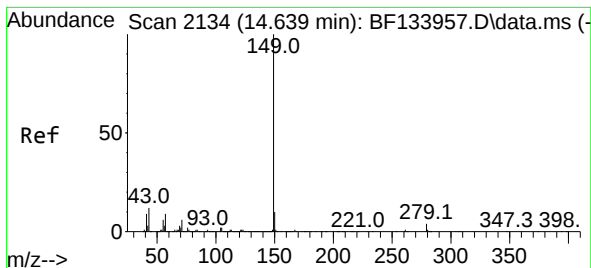
Ion Ratio Lower Upper

149 100

167 27.2 21.0 31.4

279 4.7 3.3 4.9





#85

Di-n-octyl phthalate

Concen: 62.845 ng

RT: 14.633 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

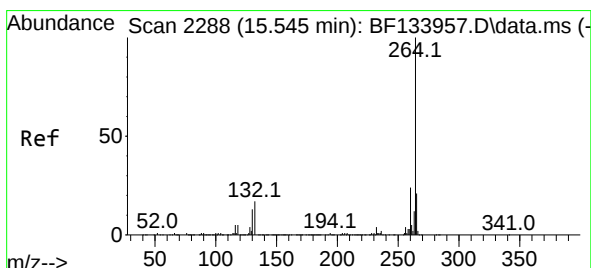
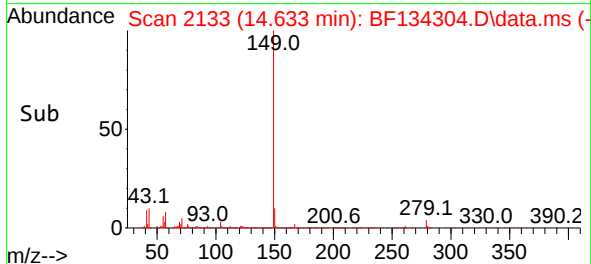
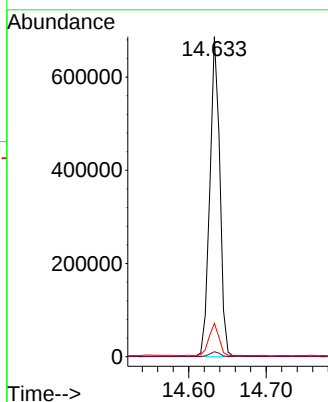
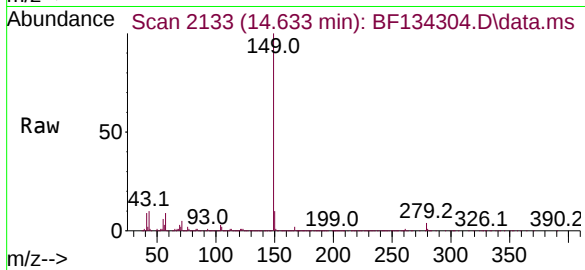
Tgt Ion:149 Resp: 613600

Ion Ratio Lower Upper

149 100

167 1.5 1.3 1.9

43 10.3 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: BF134304.D

Acq: 14 Jul 2023 23:09

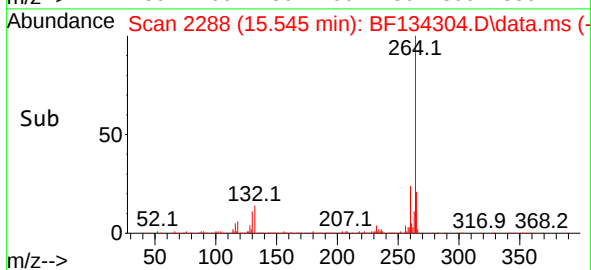
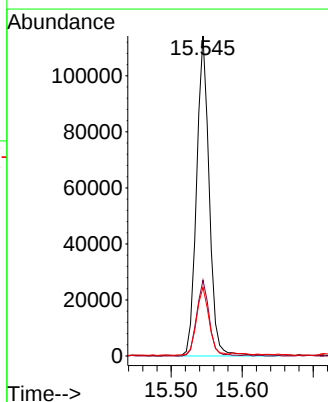
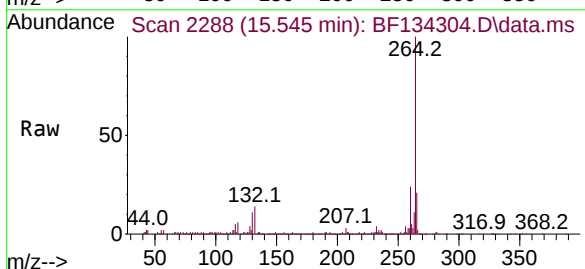
Tgt Ion:264 Resp: 141729

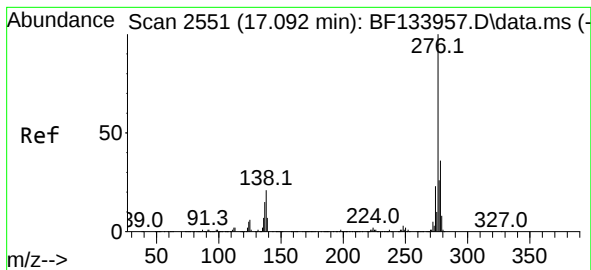
Ion Ratio Lower Upper

264 100

260 23.7 19.5 29.3

265 21.5 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 39.373 ng

RT: 17.098 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

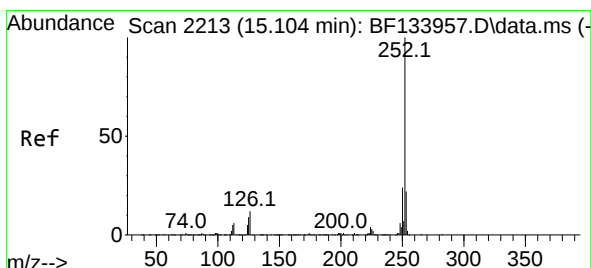
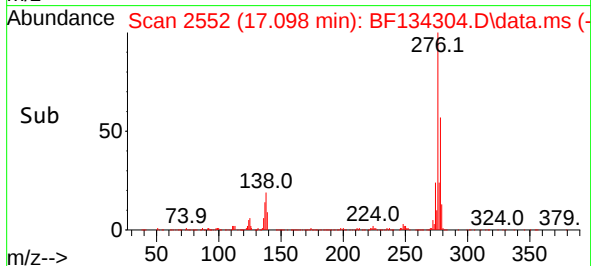
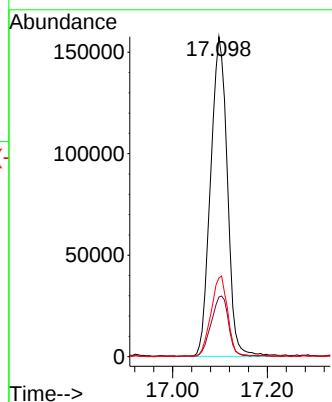
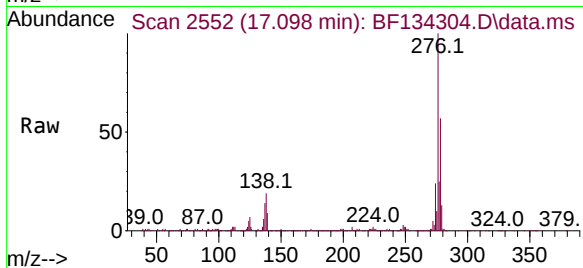
Tgt Ion:276 Resp: 387216

Ion Ratio Lower Upper

276 100

138 19.4 18.7 28.1

277 24.5 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 55.092 ng

RT: 15.104 min Scan# 2213

Delta R.T. 0.000 min

Lab File: BF134304.D

Acq: 14 Jul 2023 23:09

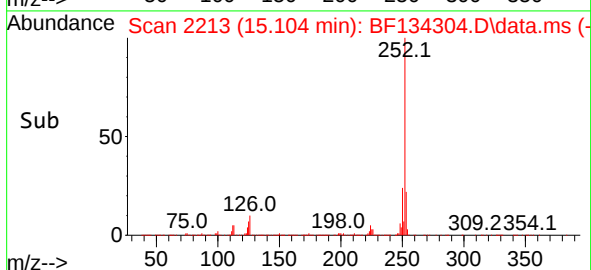
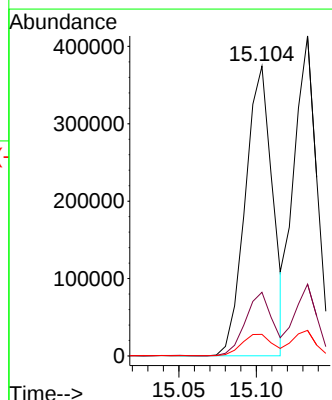
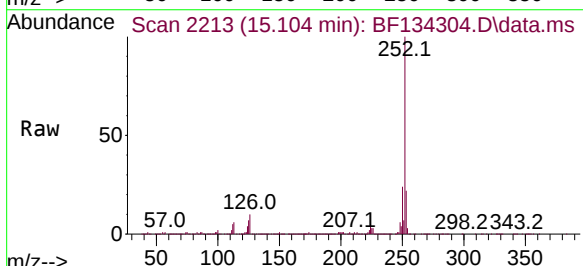
Tgt Ion:252 Resp: 459124

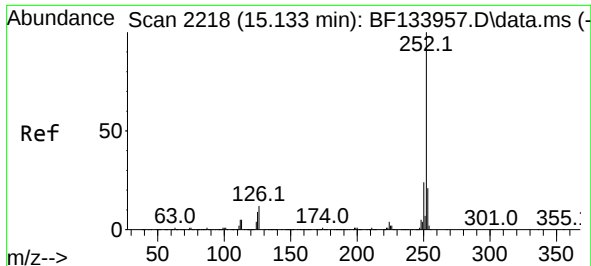
Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.0

125 7.4 7.1 10.7

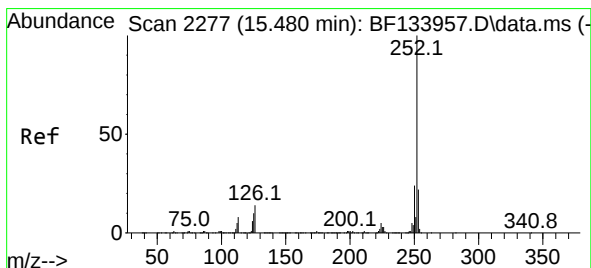
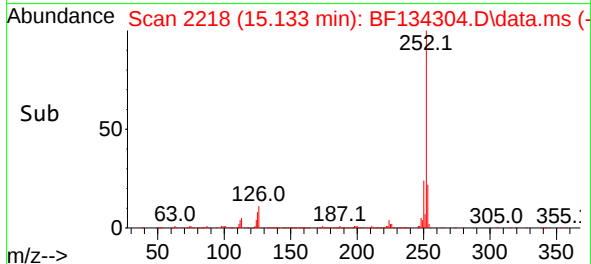
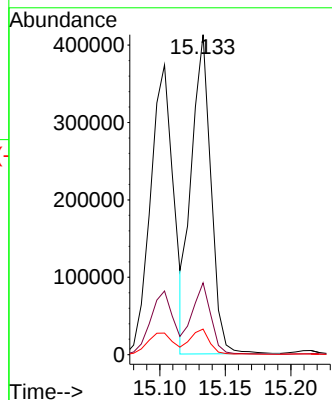
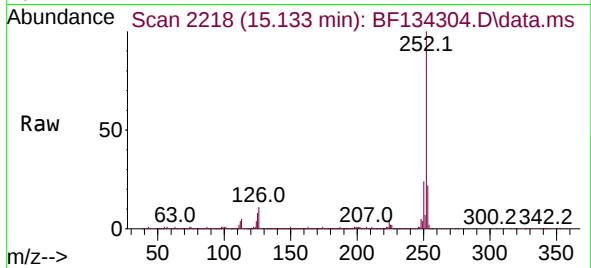




#89
Benzo(k)fluoranthene
Concen: 50.204 ng
RT: 15.133 min Scan# 2218
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

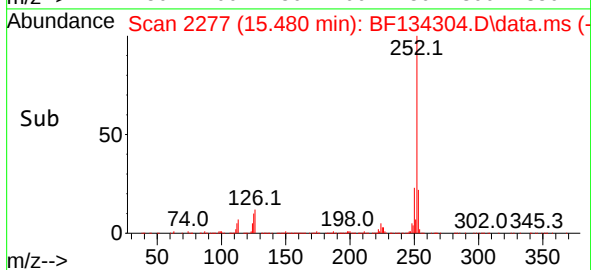
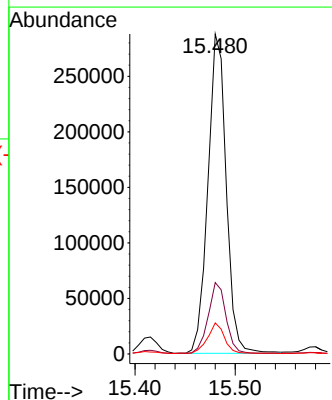
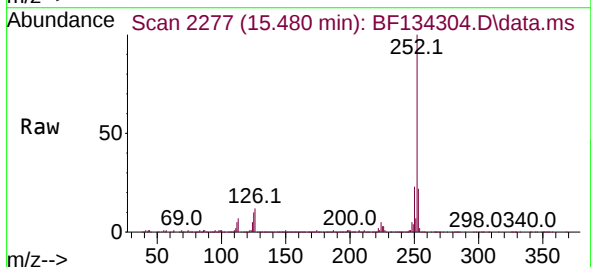
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

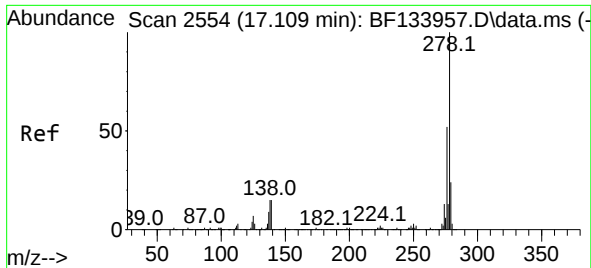
Tgt Ion:252 Resp: 425982
Ion Ratio Lower Upper
252 100
253 22.5 16.9 25.3
125 8.0 7.4 11.2



#90
Benzo(a)pyrene
Concen: 45.247 ng
RT: 15.480 min Scan# 2277
Delta R.T. -0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:252 Resp: 364631
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.0
125 9.7 8.4 12.6

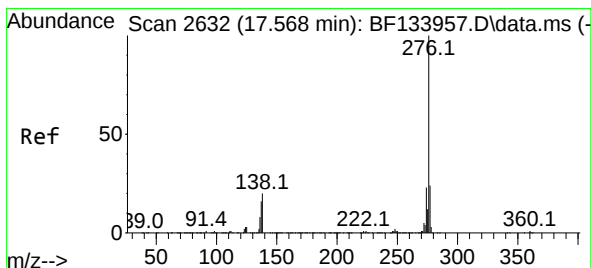
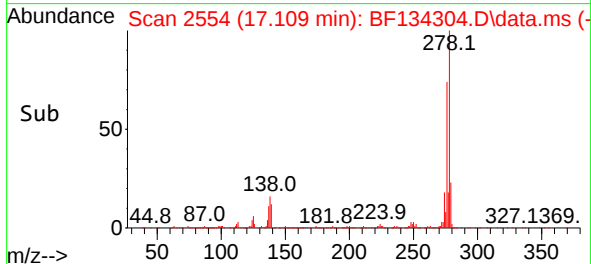
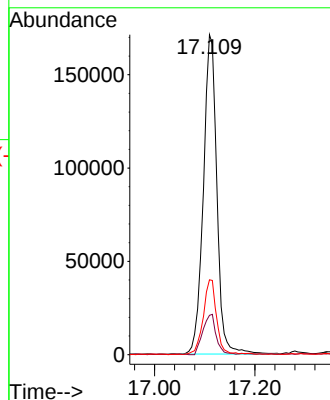
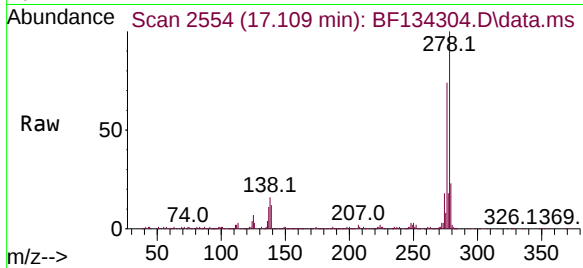




#91
Dibenzo(a,h)anthracene
Concen: 40.023 ng
RT: 17.109 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

Tgt Ion:278 Resp: 321496
Ion Ratio Lower Upper
278 100
139 12.3 12.2 18.4
279 23.4 19.4 29.2



#92
Benzo(g,h,i)perylene
Concen: 37.208 ng
RT: 17.568 min Scan# 2632
Delta R.T. 0.000 min
Lab File: BF134304.D
Acq: 14 Jul 2023 23:09

Tgt Ion:276 Resp: 308223
Ion Ratio Lower Upper
276 100
277 23.1 19.0 28.6
138 17.8 16.2 24.2

