

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070225\
 Data File : BF142982.D
 Acq On : 02 Jul 2025 20:52
 Operator : RC/JU
 Sample : Q2475-01MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMS

Quant Time: Jul 03 01:09:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	59177	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	222831	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	115354	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	168872	20.000	ng	0.00
76) Chrysene-d12	14.057	240	125535	20.000	ng	0.00
86) Perylene-d12	15.545	264	103117	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	251153	70.661	ng	0.00
7) Phenol-d6	6.504	99	310182	73.969	ng	0.00
23) Nitrobenzene-d5	7.440	82	190246	46.830	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	80472	67.790	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	377618	43.004	ng	-0.01
79) Terphenyl-d14	12.986	244	303952	33.455	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	50385	35.441	ng	99
3) Pyridine	3.416	79	138323	38.811	ng	98
4) n-Nitrosodimethylamine	3.369	42	78305	42.487	ng	99
6) Aniline	6.534	93	206267	36.967	ng	# 87
8) 2-Chlorophenol	6.657	128	174364	45.477	ng	98
9) Benzaldehyde	6.422	77	125658	50.508	ng	100
10) Phenol	6.522	94	206764	44.358	ng	89
11) bis(2-Chloroethyl)ether	6.604	93	148327	44.523	ng	97
12) 1,3-Dichlorobenzene	6.810	146	186383	43.466	ng	99
13) 1,4-Dichlorobenzene	6.892	146	193602	44.750	ng	99
14) 1,2-Dichlorobenzene	7.040	146	183230	44.653	ng	100
15) Benzyl Alcohol	7.016	79	140744	46.426	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	225044	42.044	ng	88
17) 2-Methylphenol	7.128	107	134142	46.167	ng	98
18) Hexachloroethane	7.387	117	68120	45.017	ng	96
19) n-Nitroso-di-n-propyla...	7.287	70	111743	45.817	ng	97
20) 3+4-Methylphenols	7.281	107	170574	47.085	ng	93
22) Acetophenone	7.281	105	229876	46.781	ng	99
24) Nitrobenzene	7.457	77	166143	45.185	ng	97
25) Isophorone	7.698	82	299934	46.024	ng	99
26) 2-Nitrophenol	7.775	139	96620	48.238	ng	99
27) 2,4-Dimethylphenol	7.810	122	153802	44.330	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	192553	46.475	ng	100
29) 2,4-Dichlorophenol	8.016	162	148099	47.077	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	157040	45.397	ng	99
31) Naphthalene	8.181	128	506422	46.430	ng	100
32) Benzoic acid	7.934	122	79014	44.682	ng	98
33) 4-Chloroaniline	8.228	127	104242	23.504	ng	99
34) Hexachlorobutadiene	8.292	225	98678	46.635	ng	99
35) Caprolactam	8.604	113	45342	54.620	ng	94
36) 4-Chloro-3-methylphenol	8.716	107	148675	47.553	ng	99
37) 2-Methylnaphthalene	8.869	142	317355	46.932	ng	99
38) 1-Methylnaphthalene	8.969	142	326102	46.586	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	161218	47.365	ng	99
41) Hexachlorocyclopentadiene	9.022	237	126192	65.332	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	105655	47.636	ng	100

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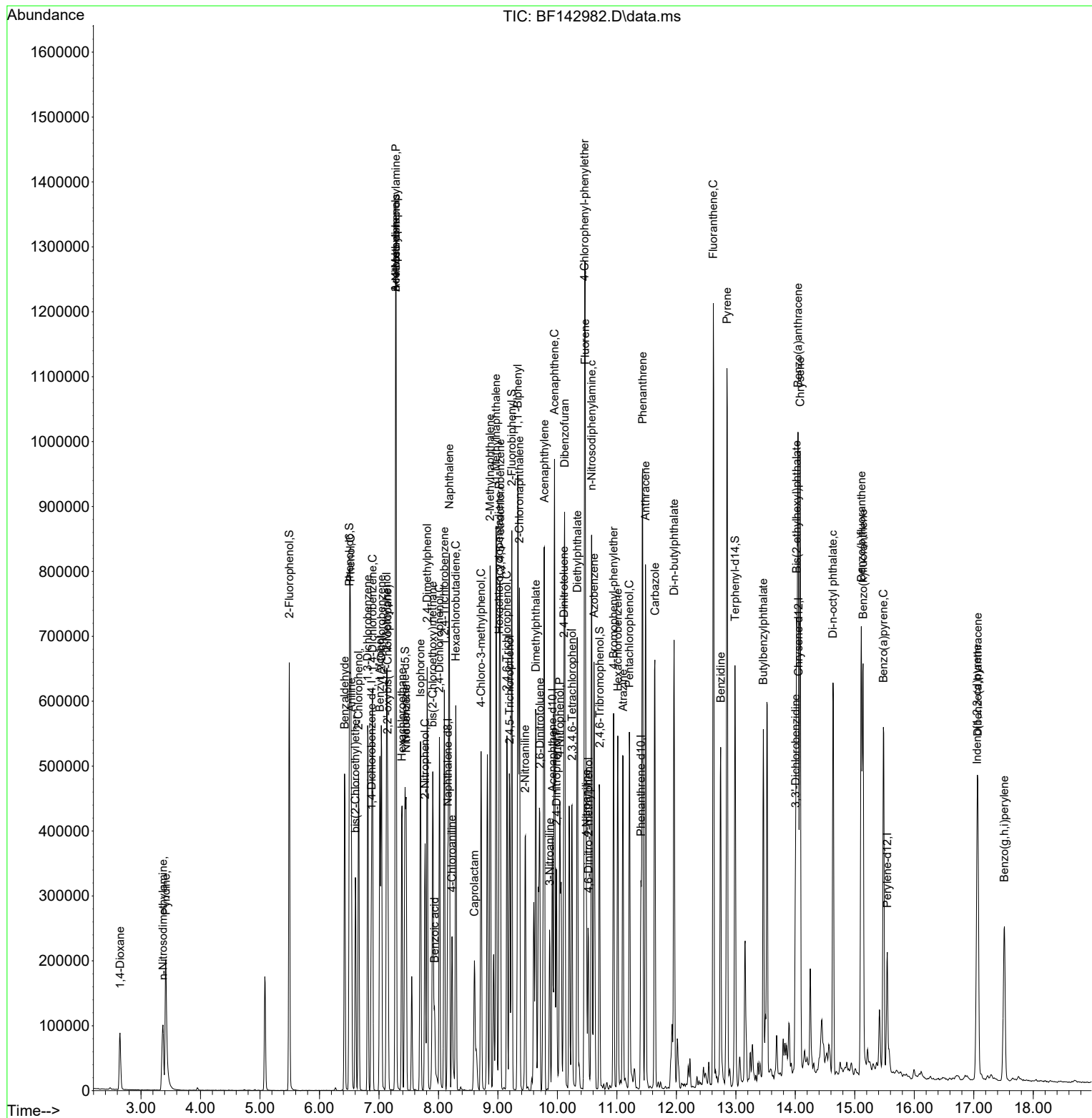
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	107771	46.159	ng	98
46) 1,1'-Biphenyl	9.334	154	435667	47.811	ng	99
47) 2-Chloronaphthalene	9.363	162	316479	46.281	ng	100
48) 2-Nitroaniline	9.457	65	92141	48.062	ng	99
49) Acenaphthylene	9.781	152	532281	47.284	ng	100
50) Dimethylphthalate	9.639	163	377610	50.571	ng	100
51) 2,6-Dinitrotoluene	9.704	165	79528	48.498	ng	97
52) Acenaphthene	9.951	154	349979m	50.956	ng	
53) 3-Nitroaniline	9.869	138	56022	31.030	ng	100
54) 2,4-Dinitrophenol	9.986	184	71826	87.477	ng	96
55) Dibenzofuran	10.122	168	457672	46.470	ng	99
56) 4-Nitrophenol	10.039	139	105462	85.325	ng	98
57) 2,4-Dinitrotoluene	10.110	165	103688	47.604	ng	98
58) Fluorene	10.469	166	365658	47.539	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	84024	44.647	ng	95
60) Diethylphthalate	10.333	149	375686	51.315	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	173018	47.139	ng	99
62) 4-Nitroaniline	10.486	138	77272	46.798	ng	97
63) Azobenzene	10.616	77	324375	49.573	ng	96
65) 4,6-Dinitro-2-methylph...	10.522	198	49114	48.083	ng	98
66) n-Nitrosodiphenylamine	10.575	169	302063	51.611	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	99683	51.866	ng	96
68) Hexachlorobenzene	11.016	284	100995	47.292	ng	99
69) Atrazine	11.104	200	89091	58.948	ng	99
70) Pentachlorophenol	11.210	266	98902	92.939	ng	99
71) Phenanthrene	11.433	178	536655	58.665	ng	99
72) Anthracene	11.480	178	453294	48.316	ng	100
73) Carbazole	11.639	167	398188	49.182	ng	100
74) Di-n-butylphthalate	11.963	149	501082	59.411	ng	100
75) Fluoranthene	12.622	202	715937	82.465	ng	100
77) Benzidine	12.745	184	287333	60.921	ng	99
78) Pyrene	12.851	202	677295	57.559	ng	99
80) Butylbenzylphthalate	13.463	149	181617	53.209	ng	97
81) Benzo(a)anthracene	14.045	228	510028	60.225	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	80610	29.346	ng	98
83) Chrysene	14.080	228	470396	62.248	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	251873	51.288	ng	98
85) Di-n-octyl phthalate	14.633	149	421576	45.526	ng	98
87) Indeno(1,2,3-cd)pyrene	17.057	276	280284	35.685	ng	98
88) Benzo(b)fluoranthene	15.110	252	434897	72.886	ng	99
89) Benzo(k)fluoranthene	15.139	252	363291m	65.078	ng	
90) Benzo(a)pyrene	15.480	252	337212	58.500	ng	100
91) Dibenzo(a,h)anthracene	17.068	278	214223	33.568	ng	99
92) Benzo(g,h,i)perylene	17.515	276	214912	33.772	ng	99

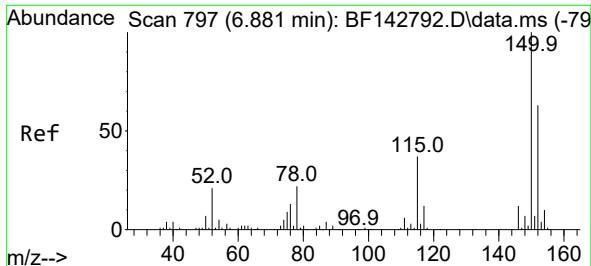
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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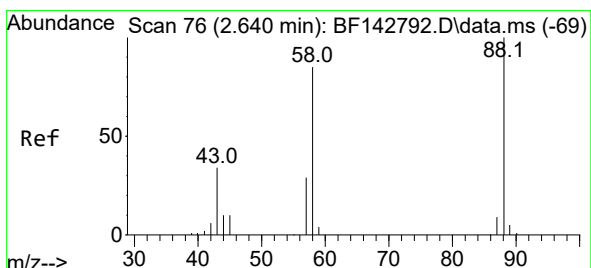
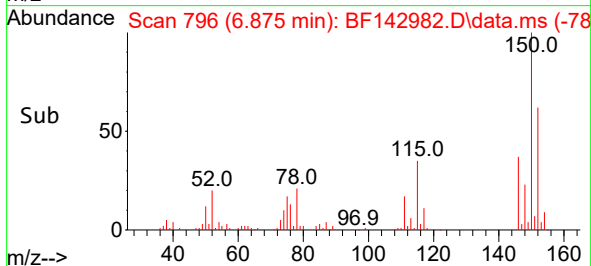
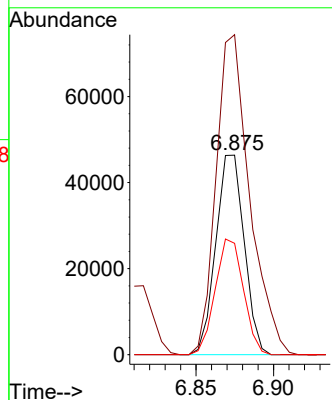
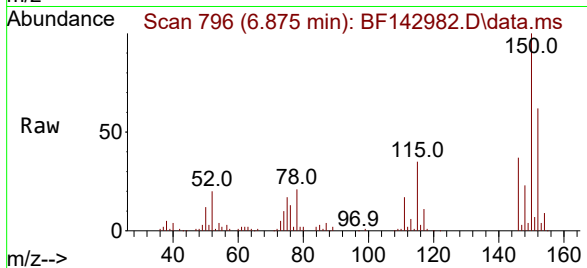




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

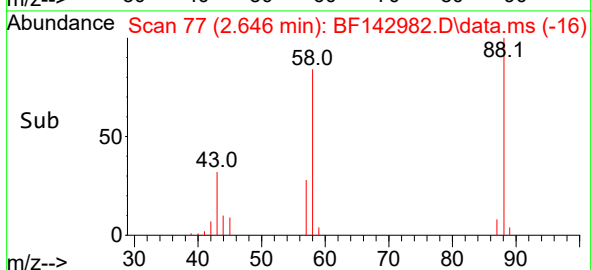
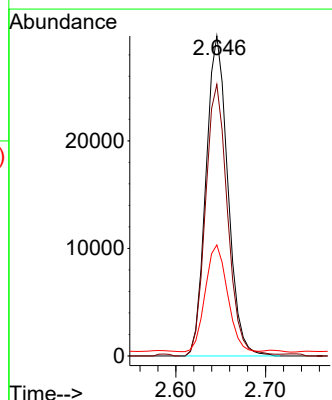
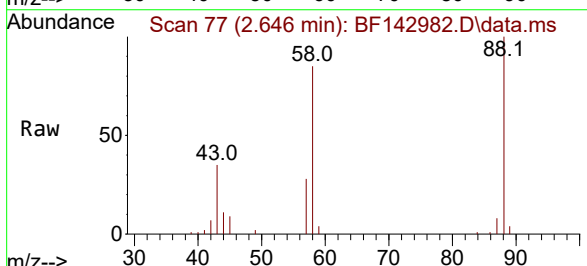
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BNA_F
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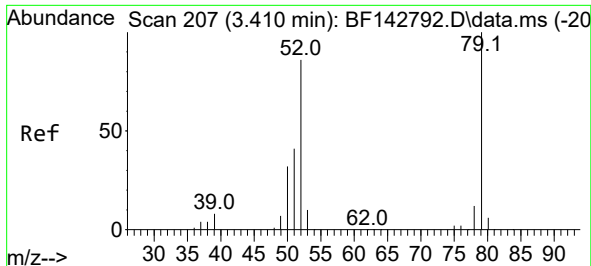
Tgt Ion:152 Resp: 59177
Ion Ratio Lower Upper
152 100
150 160.3 127.2 190.8
115 55.8 46.6 69.8



#2
1,4-Dioxane
Concen: 35.441 ng
RT: 2.646 min Scan# 77
Delta R.T. 0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion: 88 Resp: 50385
Ion Ratio Lower Upper
88 100
58 85.7 69.1 103.7
43 33.7 27.4 41.2

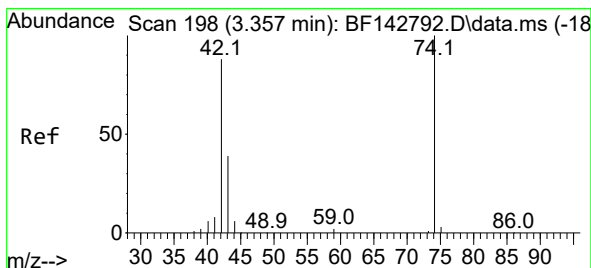
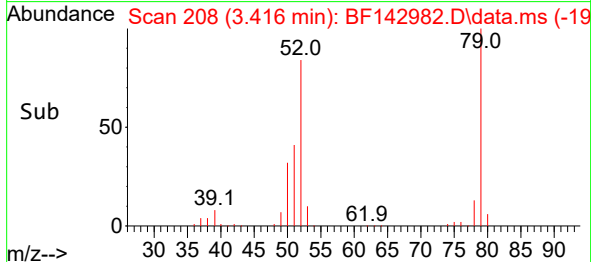
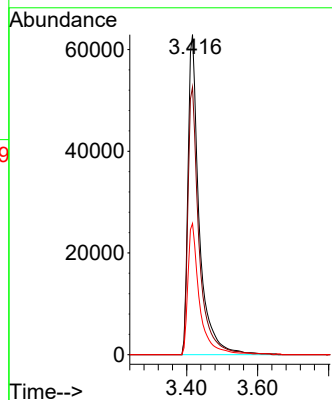
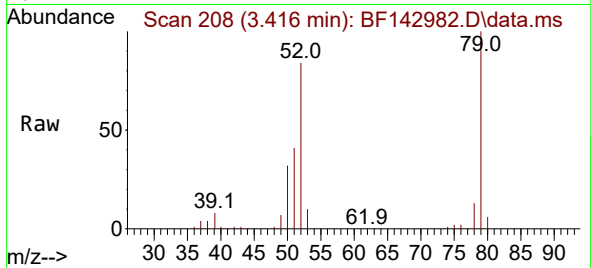




#3
 Pyridine
 Concen: 38.811 ng
 RT: 3.416 min Scan# 207
 Delta R.T. 0.006 min
 Lab File: BF142982.D
 Acq: 02 Jul 2025 20:52

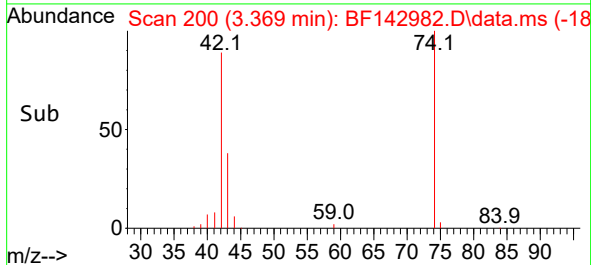
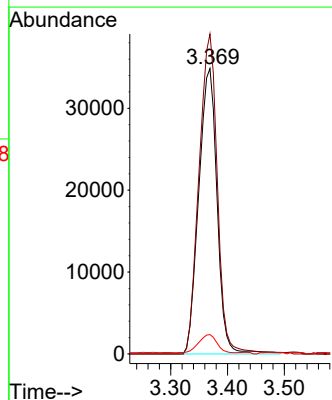
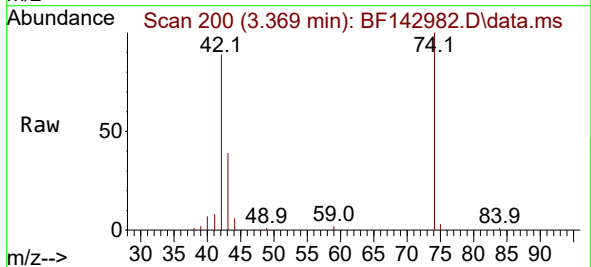
Instrument :
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 ClientSampleId :
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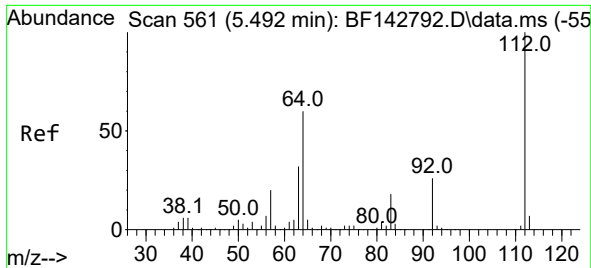
Tgt Ion: 79 Resp: 138323
 Ion Ratio Lower Upper
 79 100
 52 83.6 69.2 103.8
 51 41.0 33.2 49.8



#4
 n-Nitrosodimethylamine
 Concen: 42.487 ng
 RT: 3.369 min Scan# 200
 Delta R.T. 0.012 min
 Lab File: BF142982.D
 Acq: 02 Jul 2025 20:52

Tgt Ion: 42 Resp: 78305
 Ion Ratio Lower Upper
 42 100
 74 112.1 90.9 136.3
 44 6.8 5.8 8.6

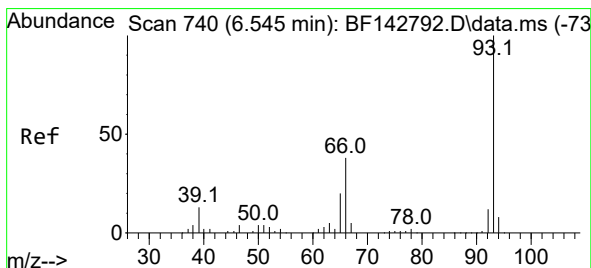
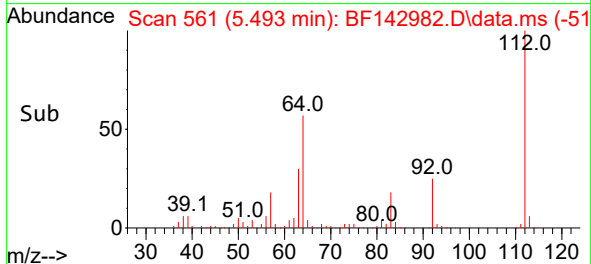
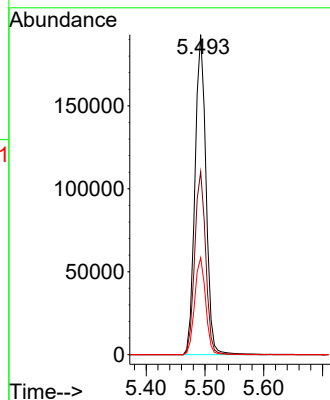
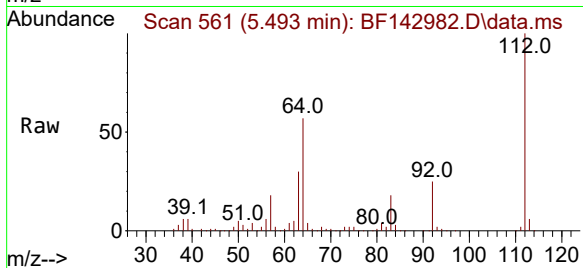




#5
2-Fluorophenol
Concen: 70.661 ng
RT: 5.493 min Scan# 501
Delta R.T. 0.001 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

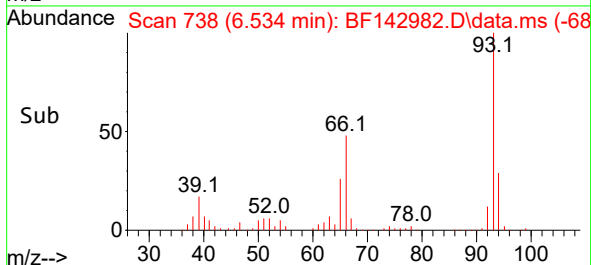
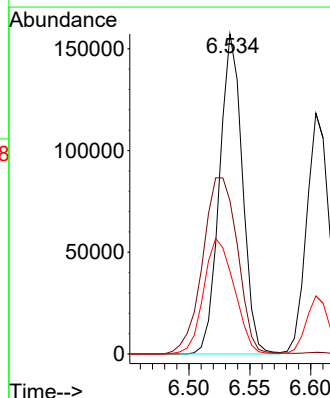
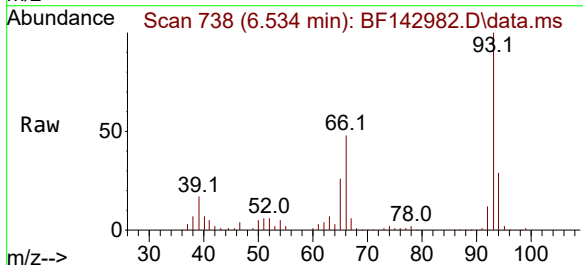
Instrument :
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ClientSampleId :
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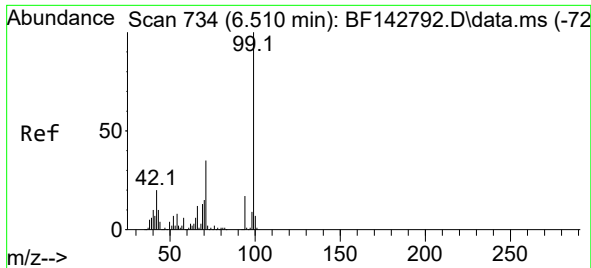
Tgt Ion:112 Resp: 251153
Ion Ratio Lower Upper
112 100
64 57.2 48.2 72.2
63 30.3 25.7 38.5



#6
Aniline
Concen: 36.967 ng
RT: 6.534 min Scan# 738
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion: 93 Resp: 206267
Ion Ratio Lower Upper
93 100
66 47.9 31.8 47.6#
65 25.8 16.2 24.2#





#7

Phenol-d6

Concen: 73.969 ng

RT: 6.504 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

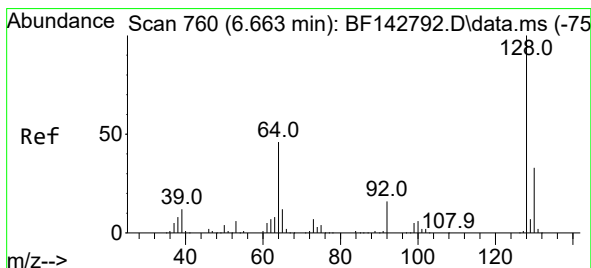
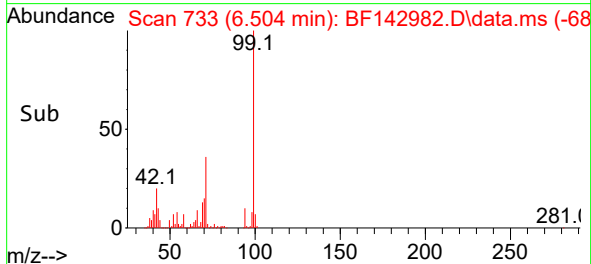
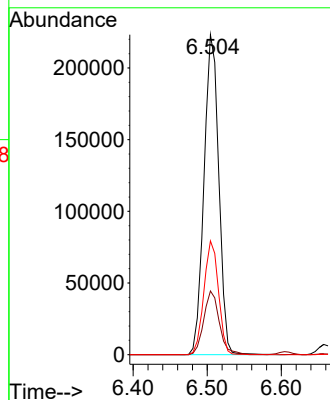
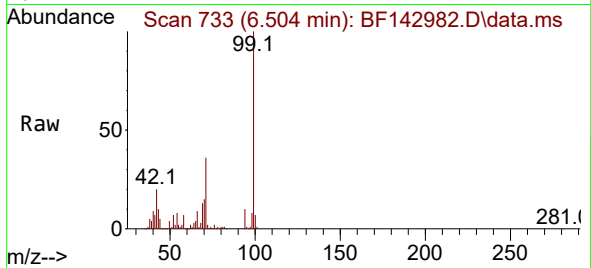
Tgt Ion: 99 Resp: 310182

Ion Ratio Lower Upper

99 100

42 19.9 15.9 23.9

71 35.5 27.8 41.8



#8

2-Chlorophenol

Concen: 45.477 ng

RT: 6.657 min Scan# 759

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

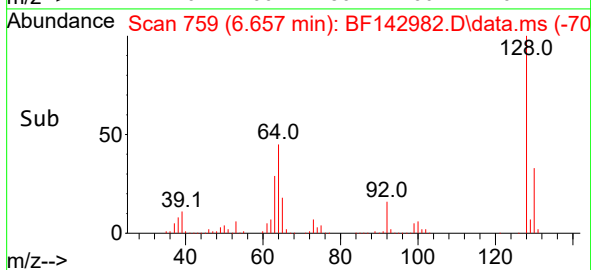
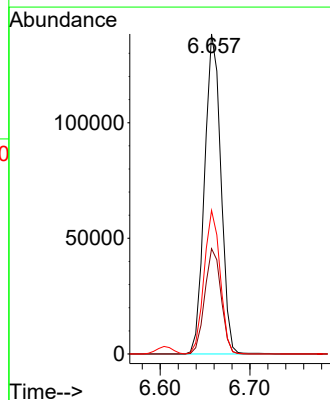
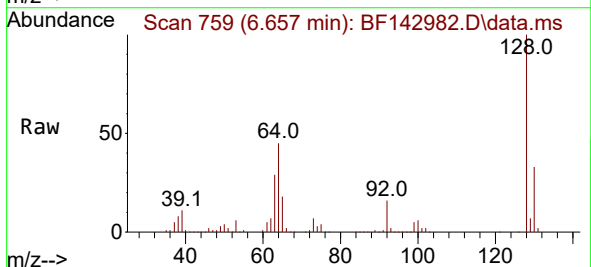
Tgt Ion:128 Resp: 174364

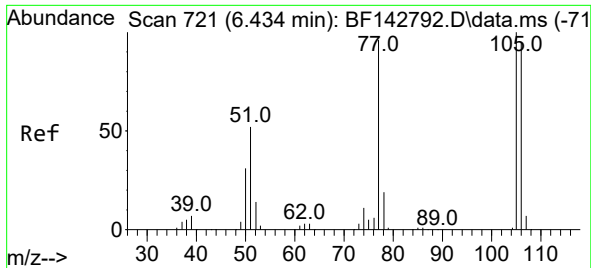
Ion Ratio Lower Upper

128 100

130 32.9 12.7 52.7

64 44.8 26.5 66.5

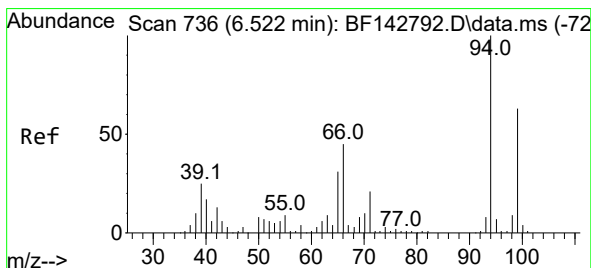
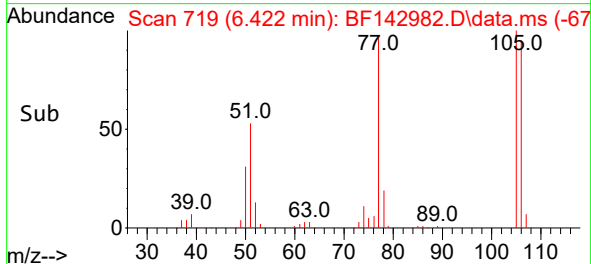
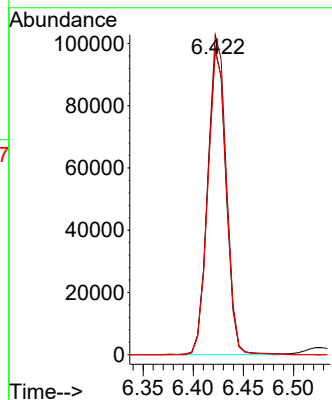
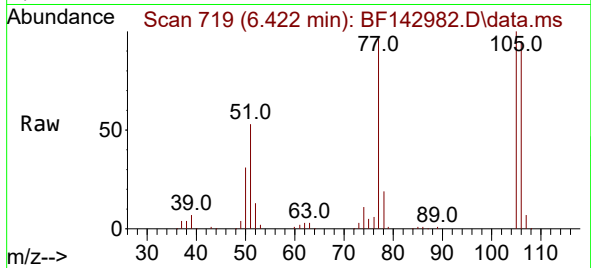




#9
Benzaldehyde
Concen: 50.508 ng
RT: 6.422 min Scan# 719
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

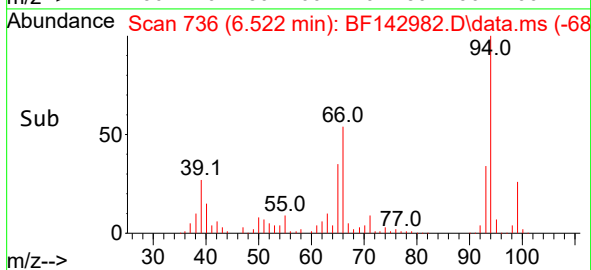
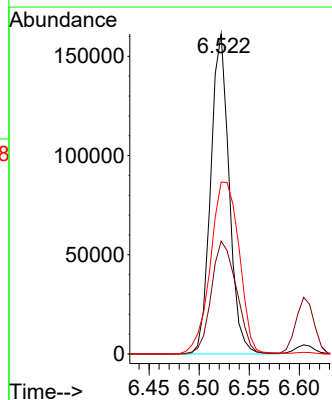
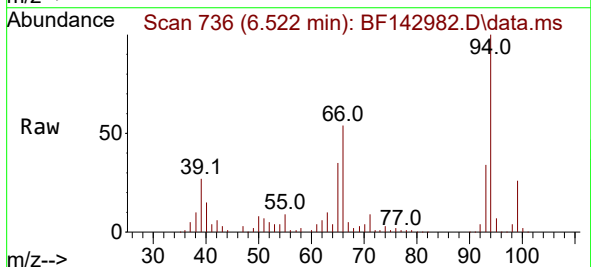
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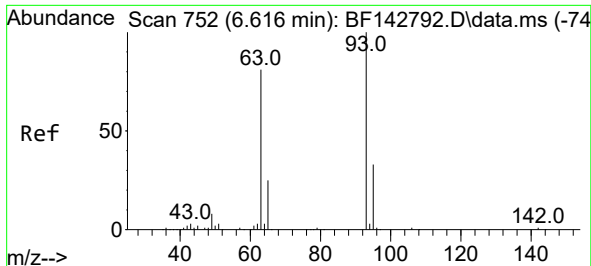
Tgt Ion: 77 Resp: 125658
Ion Ratio Lower Upper
77 100
105 104.4 83.8 123.8
106 98.8 78.7 118.7



#10
Phenol
Concen: 44.358 ng
RT: 6.522 min Scan# 736
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion: 94 Resp: 206764
Ion Ratio Lower Upper
94 100
65 35.2 11.3 51.3
66 53.7 24.9 64.9

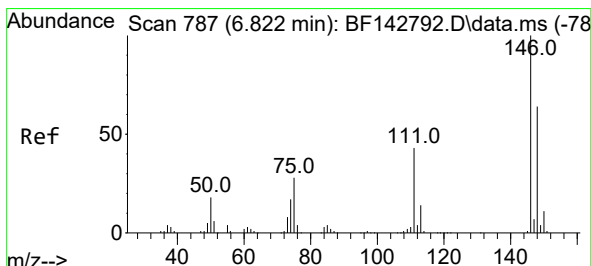
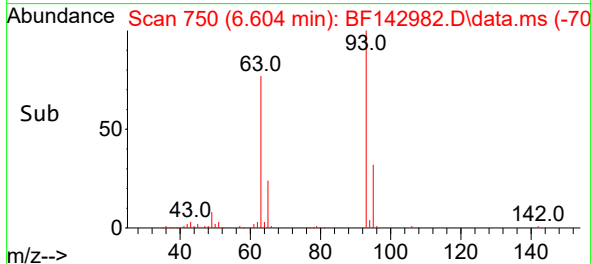
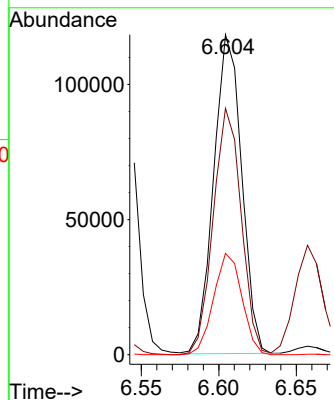
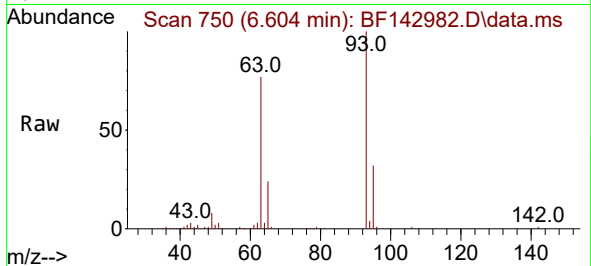




#11
bis(2-Chloroethyl)ether
Concen: 44.523 ng
RT: 6.604 min Scan# 750
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

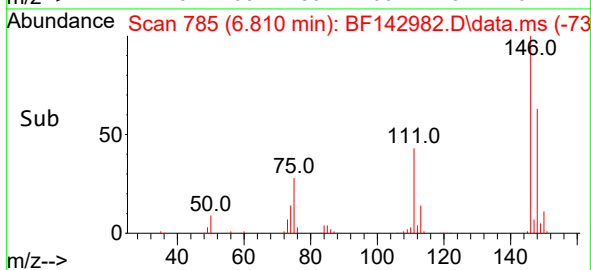
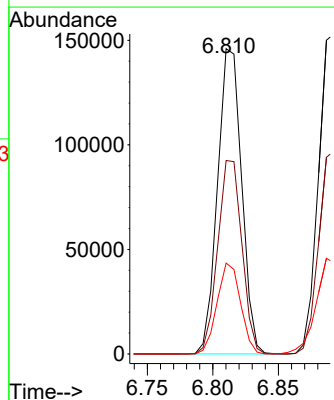
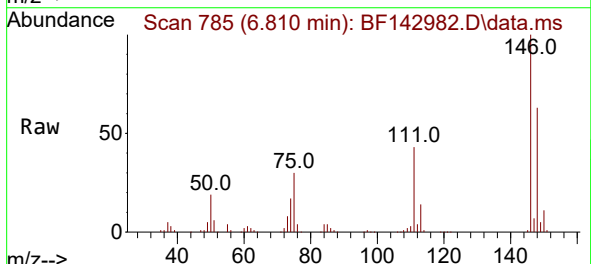
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

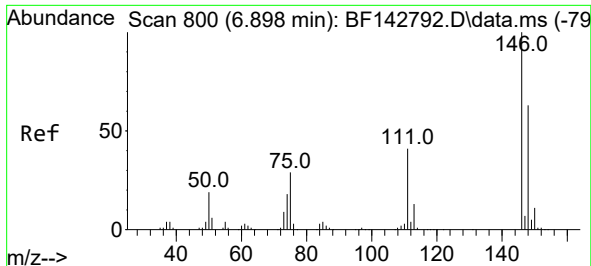
Tgt Ion: 93 Resp: 148327
Ion Ratio Lower Upper
93 100
63 77.0 60.3 100.3
95 31.6 12.5 52.5



#12
1,3-Dichlorobenzene
Concen: 43.466 ng
RT: 6.810 min Scan# 785
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:146 Resp: 186383
Ion Ratio Lower Upper
146 100
148 63.4 51.1 76.7
75 29.8 22.7 34.1





#13

1,4-Dichlorobenzene

Concen: 44.750 ng

RT: 6.892 min Scan# 79

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

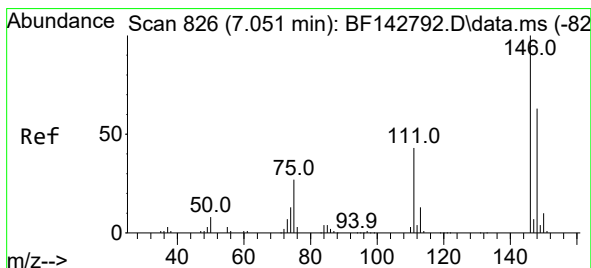
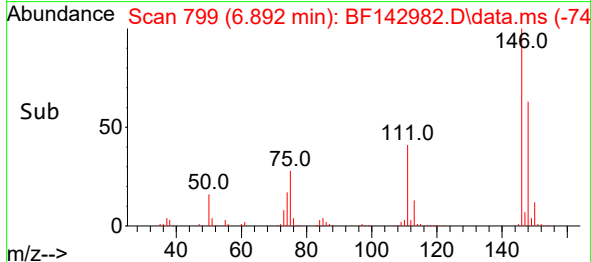
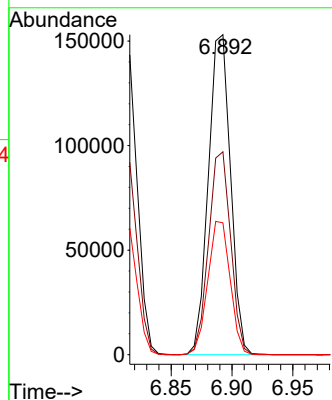
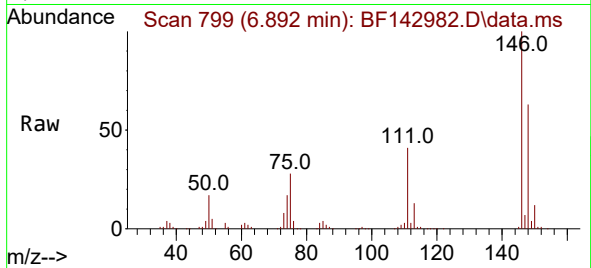
Tgt Ion:146 Resp: 193602

Ion Ratio Lower Upper

146 100

148 63.4 50.2 75.2

111 41.2 33.2 49.8



#14

1,2-Dichlorobenzene

Concen: 44.653 ng

RT: 7.040 min Scan# 824

Delta R.T. -0.012 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

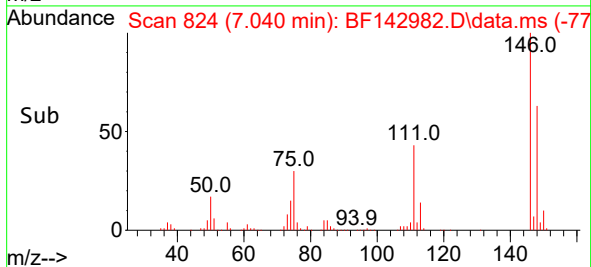
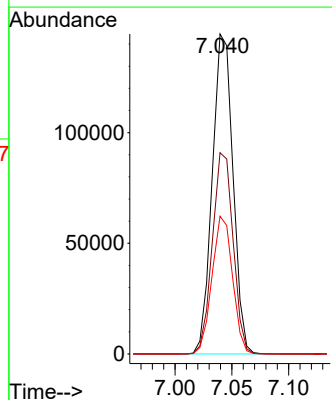
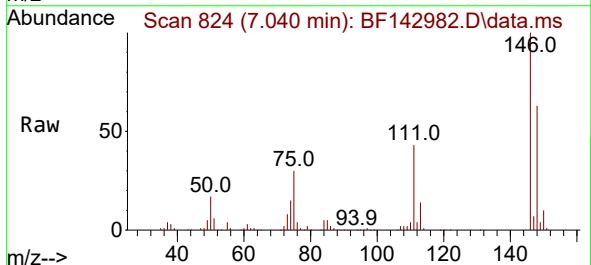
Tgt Ion:146 Resp: 183230

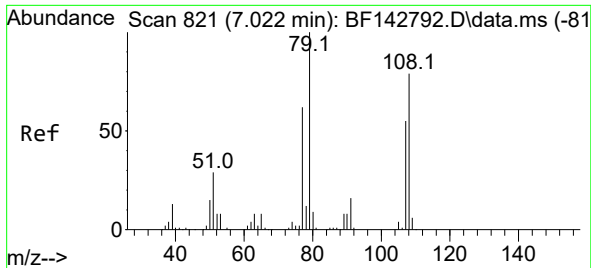
Ion Ratio Lower Upper

146 100

148 62.9 50.4 75.6

111 43.1 34.1 51.1

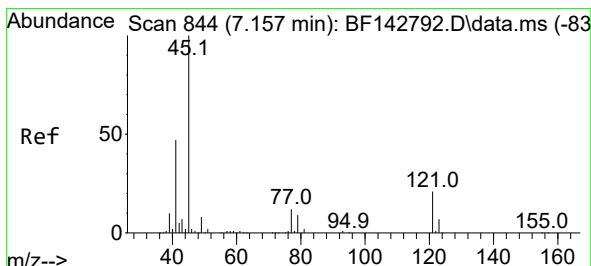
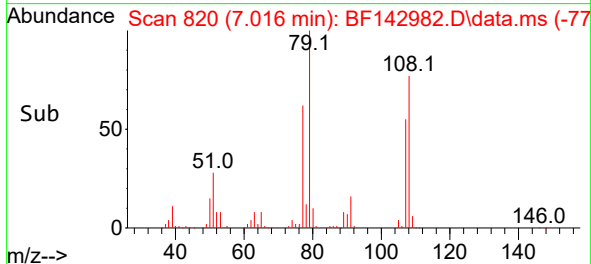
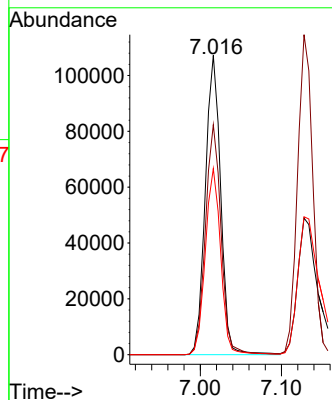
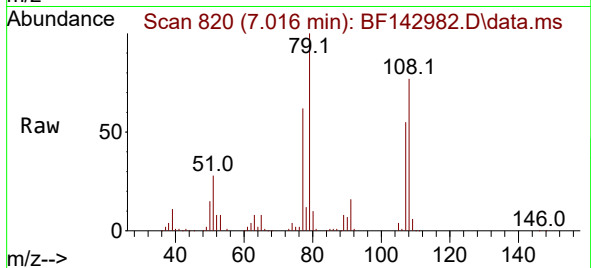




#15
Benzyl Alcohol
Concen: 46.426 ng
RT: 7.016 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

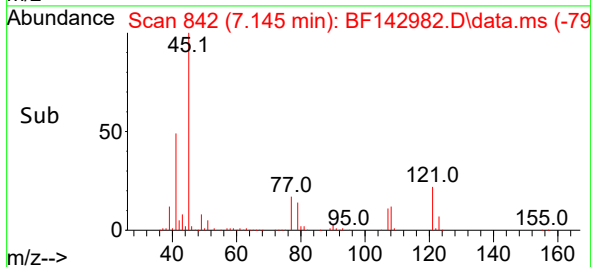
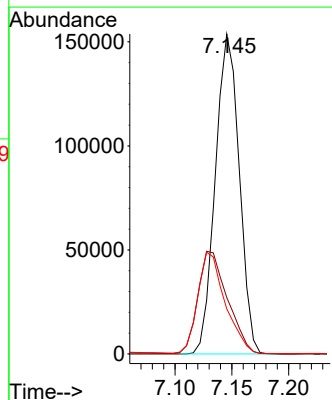
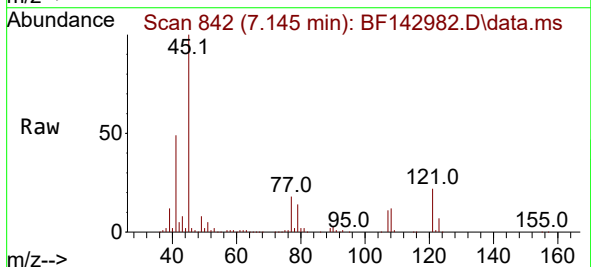
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

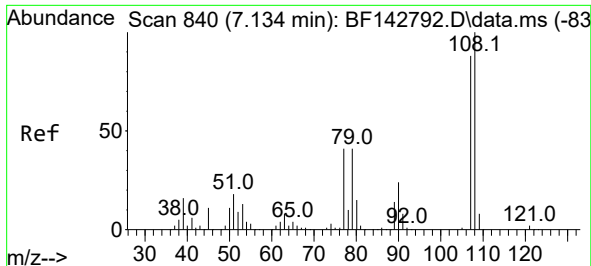
Tgt Ion: 79 Resp: 140744
Ion Ratio Lower Upper
79 100
108 76.8 63.4 95.0
77 62.2 49.5 74.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.044 ng
RT: 7.145 min Scan# 842
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion: 45 Resp: 225044
Ion Ratio Lower Upper
45 100
77 17.7 0.0 32.8
79 14.1 0.0 29.8

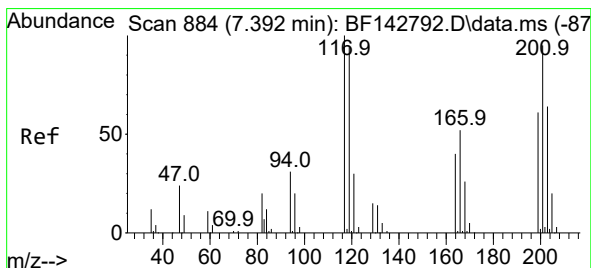
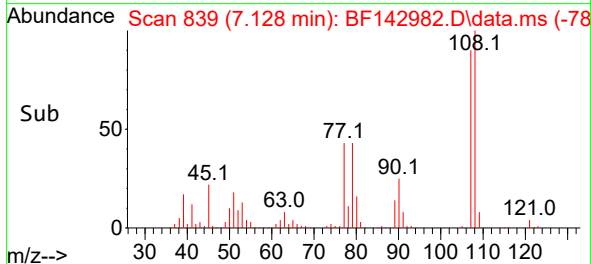
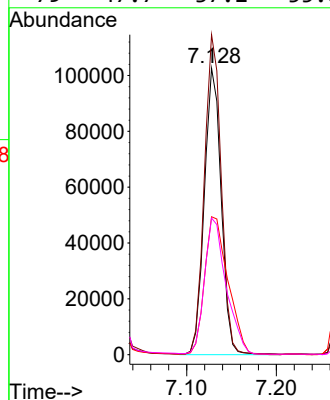
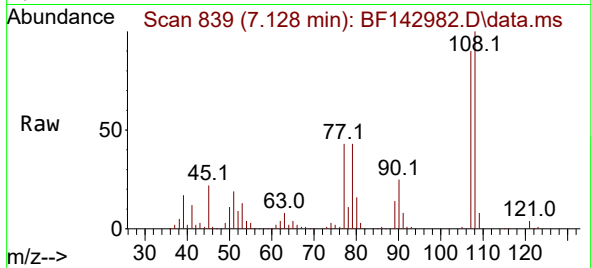




#17
2-Methylphenol
Concen: 46.167 ng
RT: 7.128 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

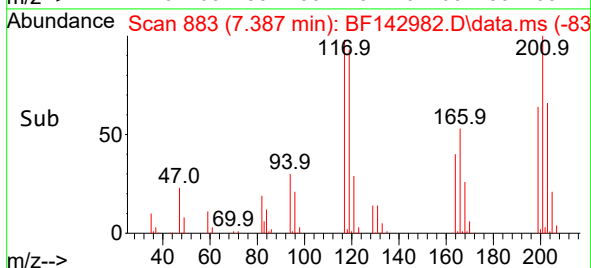
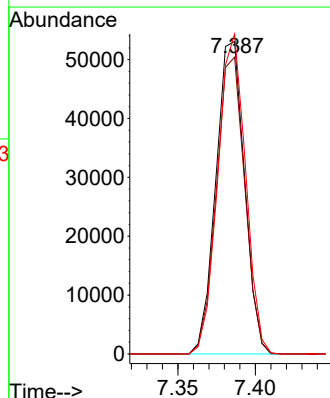
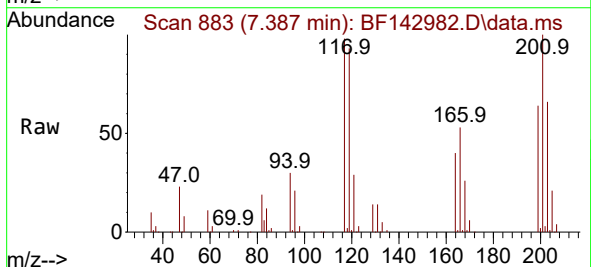
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

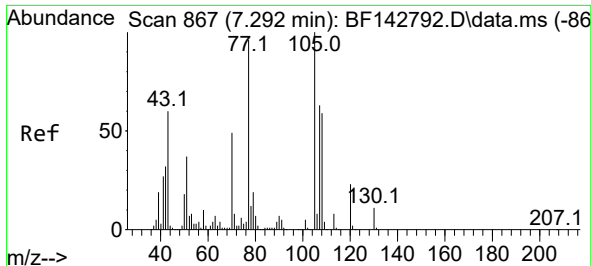
Tgt Ion:107 Resp: 134142
Ion Ratio Lower Upper
107 100
108 111.7 90.9 136.3
77 48.2 37.3 55.9
79 47.7 37.2 55.8



#18
Hexachloroethane
Concen: 45.017 ng
RT: 7.387 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:117 Resp: 68120
Ion Ratio Lower Upper
117 100
119 95.0 75.4 113.0
201 102.4 75.9 113.9





#19

n-Nitroso-di-n-propylamine

Concen: 45.817 ng

RT: 7.287 min Scan# 866

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

Tgt Ion: 70 Resp: 111743

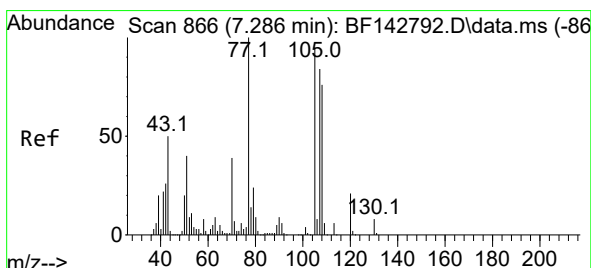
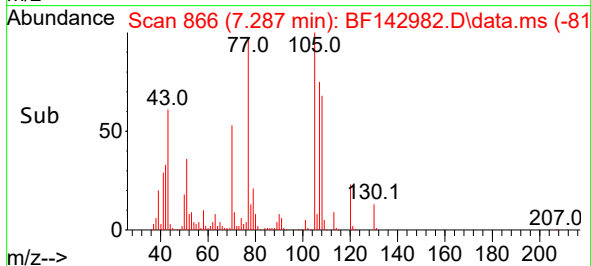
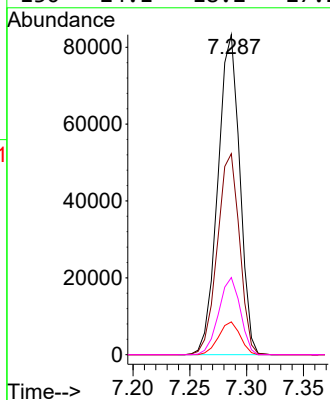
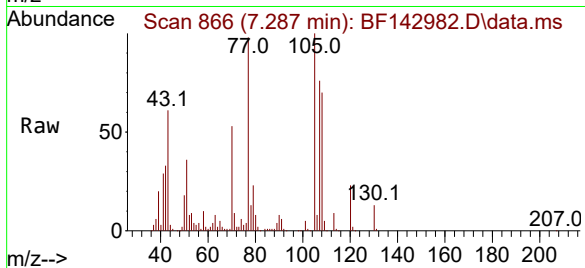
Ion Ratio Lower Upper

70 100

42 62.8 52.1 78.1

101 10.3 8.2 12.2

130 24.1 18.2 27.2



#20

3+4-Methylphenols

Concen: 47.085 ng

RT: 7.281 min Scan# 865

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Tgt Ion:107 Resp: 170574

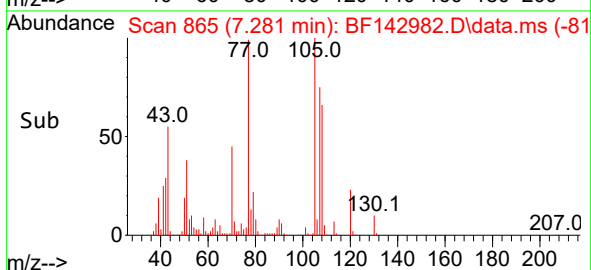
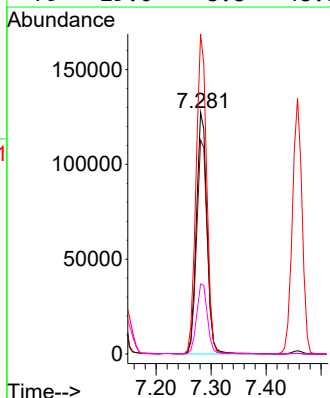
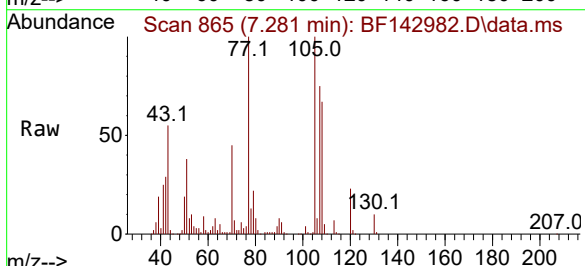
Ion Ratio Lower Upper

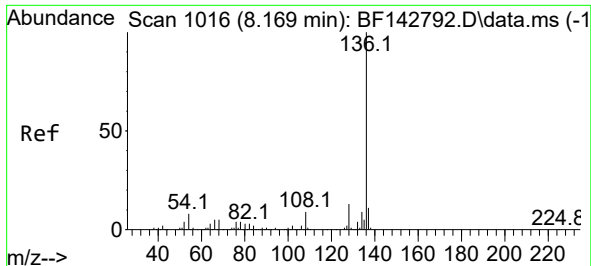
107 100

108 88.6 70.0 110.0

77 132.5 98.5 138.5

79 29.0 8.8 48.8

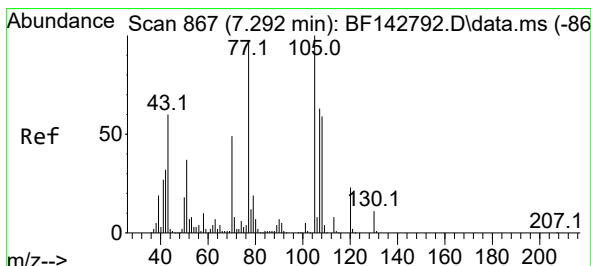
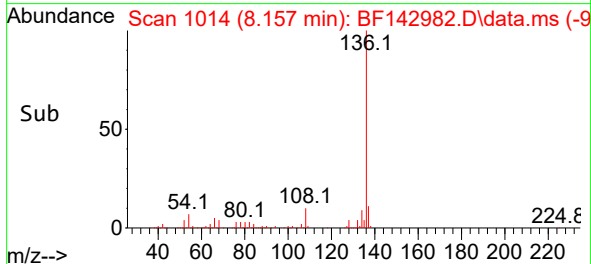
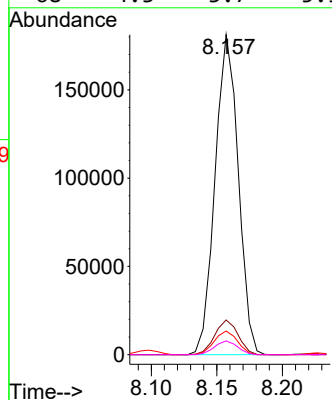
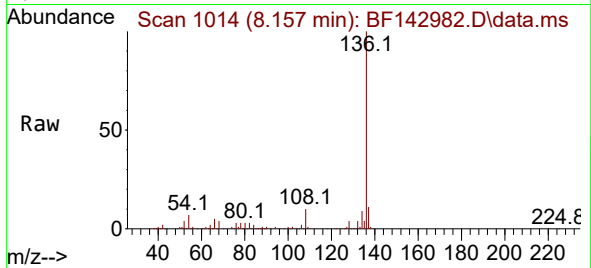




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

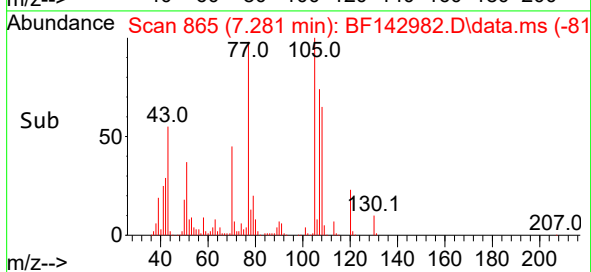
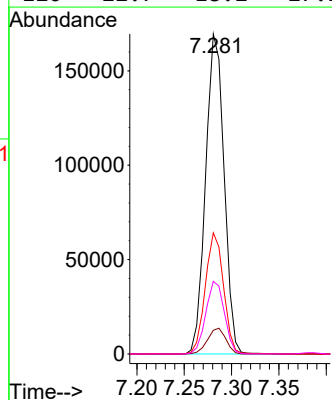
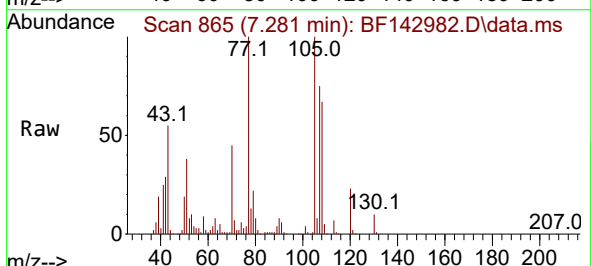
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

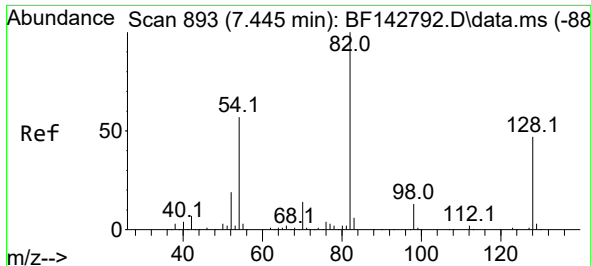
Tgt Ion:136 Resp: 222831
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 7.4 6.3 9.5
68 4.3 3.7 5.5



#22
Acetophenone
Concen: 46.781 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:105 Resp: 229876
Ion Ratio Lower Upper
105 100
71 7.4 6.5 9.7
51 37.8 29.8 44.8
120 22.7 18.2 27.2





#23

Nitrobenzene-d5

Concen: 46.830 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.005 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

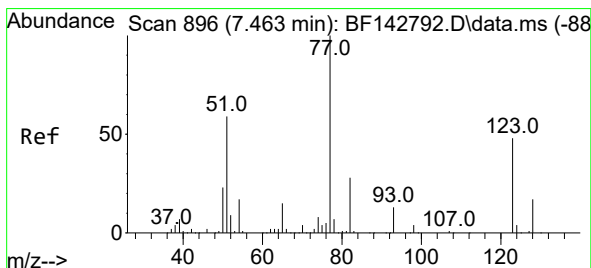
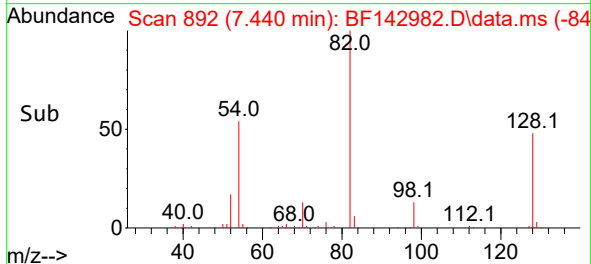
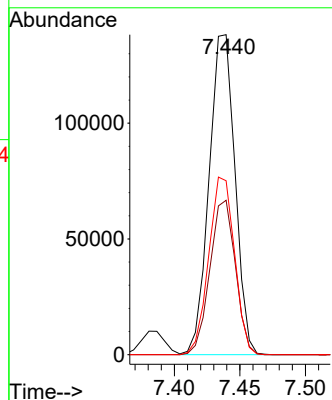
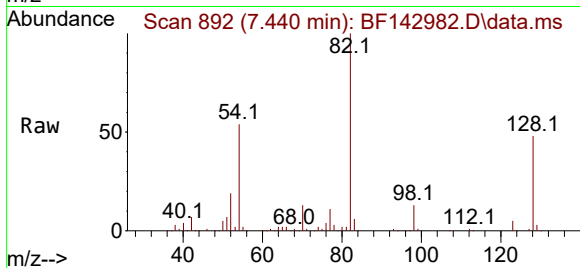
Tgt Ion: 82 Resp: 190246

Ion Ratio Lower Upper

82 100

128 48.2 37.7 56.5

54 54.4 45.7 68.5



#24

Nitrobenzene

Concen: 45.185 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

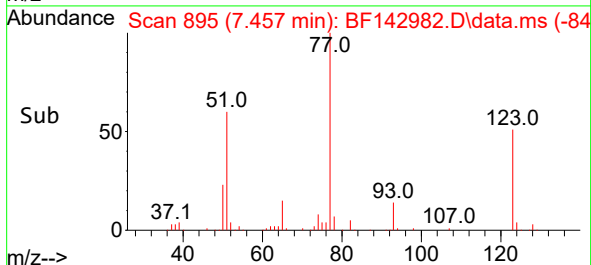
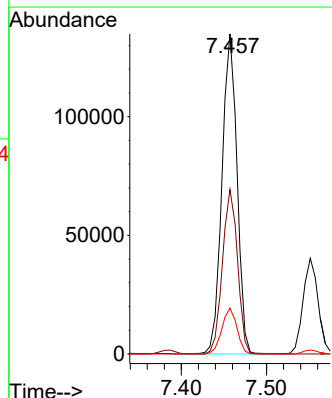
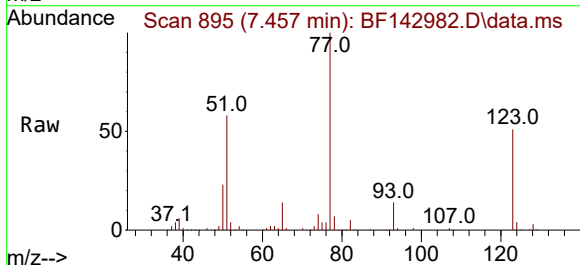
Tgt Ion: 77 Resp: 166143

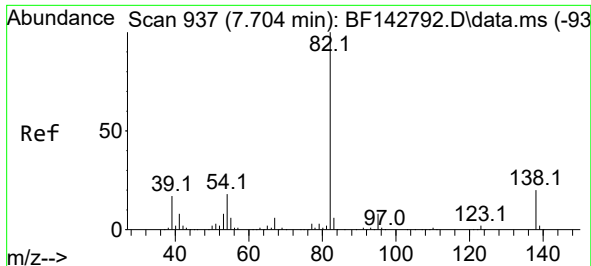
Ion Ratio Lower Upper

77 100

123 51.4 39.2 58.8

65 14.3 11.6 17.4

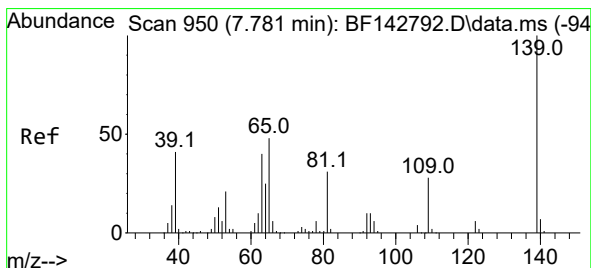
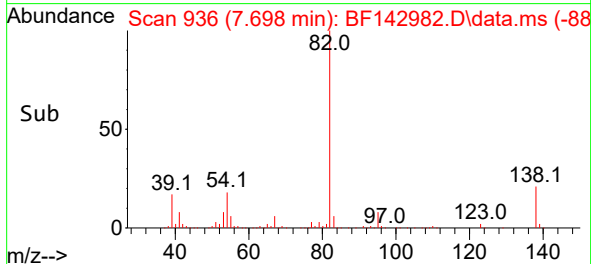
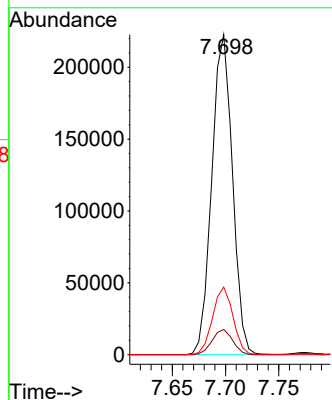
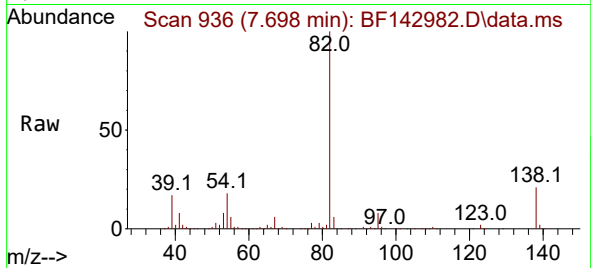




#25
Isophorone
Concen: 46.024 ng
RT: 7.698 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

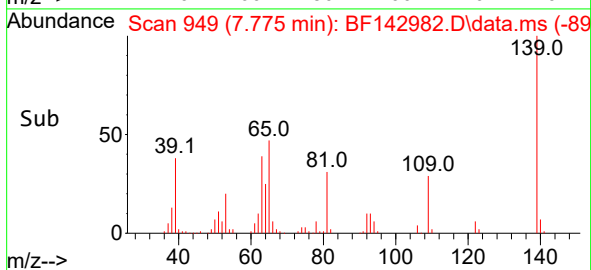
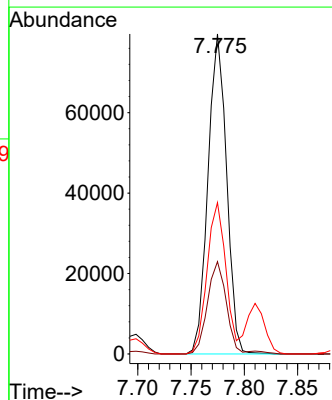
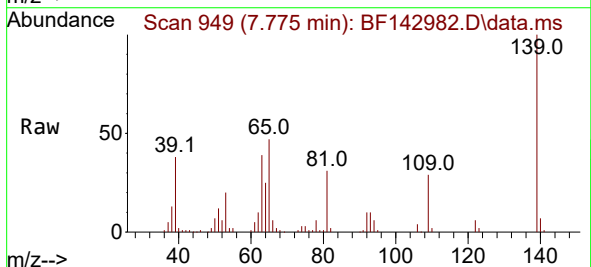
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

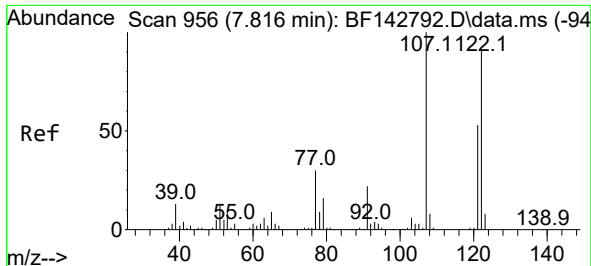
Tgt Ion: 82 Resp: 299934
Ion Ratio Lower Upper
82 100
95 7.9 6.2 9.2
138 21.1 16.2 24.4



#26
2-Nitrophenol
Concen: 48.238 ng
RT: 7.775 min Scan# 949
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:139 Resp: 96620
Ion Ratio Lower Upper
139 100
109 28.8 22.7 34.1
65 47.3 38.6 58.0

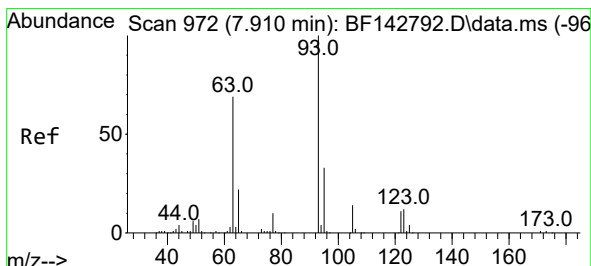
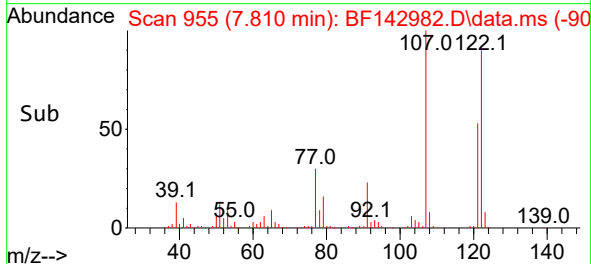
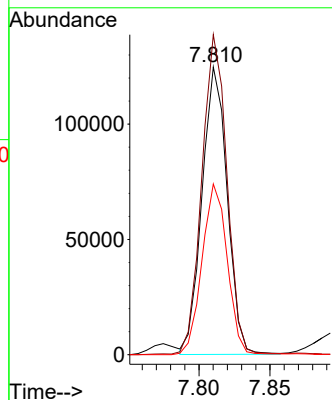
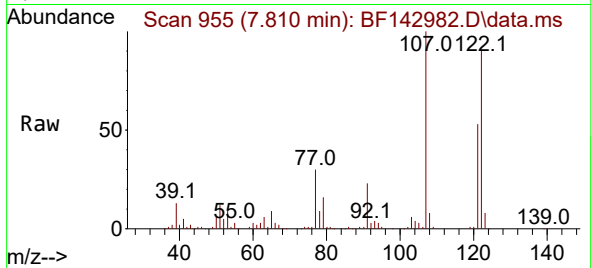




#27
2,4-Dimethylphenol
Concen: 44.330 ng
RT: 7.810 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

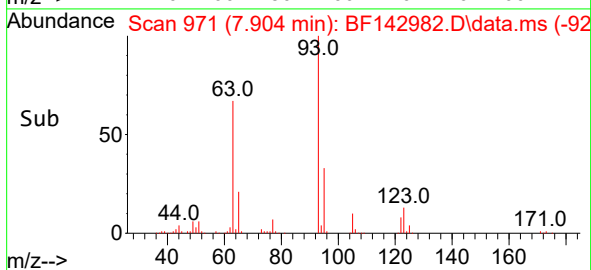
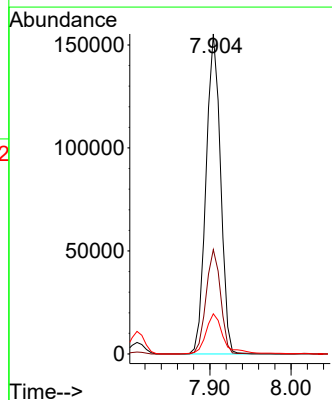
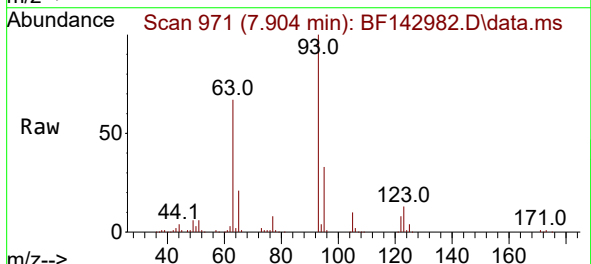
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

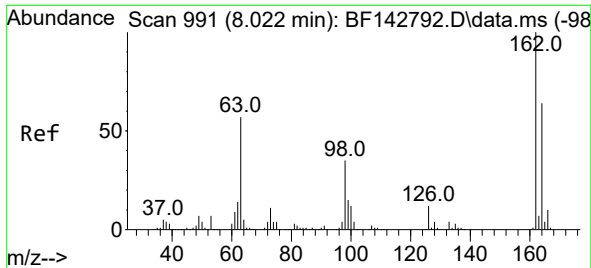
Tgt Ion:122 Resp: 153802
Ion Ratio Lower Upper
122 100
107 111.2 88.0 132.0
121 59.3 46.3 69.5



#28
bis(2-Chloroethoxy)methane
Concen: 46.475 ng
RT: 7.904 min Scan# 971
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion: 93 Resp: 192553
Ion Ratio Lower Upper
93 100
95 32.6 26.2 39.2
123 12.6 9.9 14.9





#29

2,4-Dichlorophenol

Concen: 47.077 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

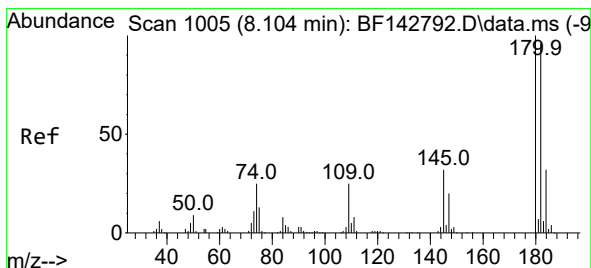
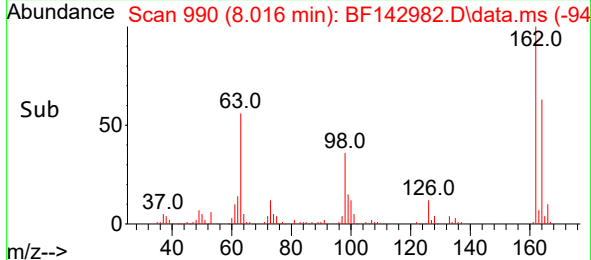
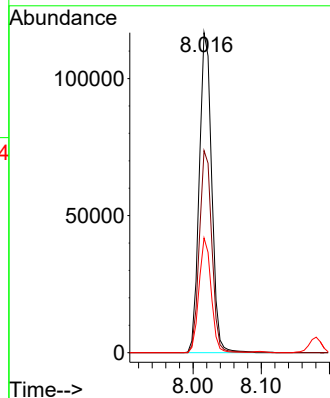
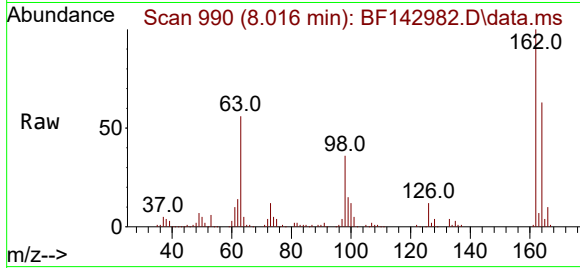
Tgt Ion:162 Resp: 148099

Ion Ratio Lower Upper

162 100

164 63.1 44.0 84.0

98 35.8 15.4 55.4



#30

1,2,4-Trichlorobenzene

Concen: 45.397 ng

RT: 8.098 min Scan# 1004

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

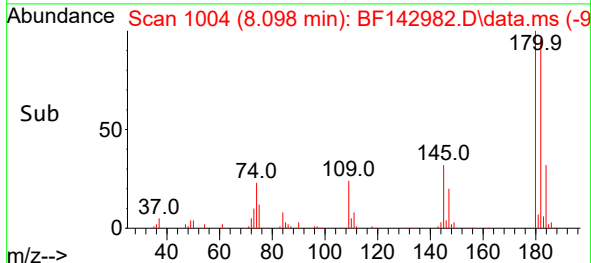
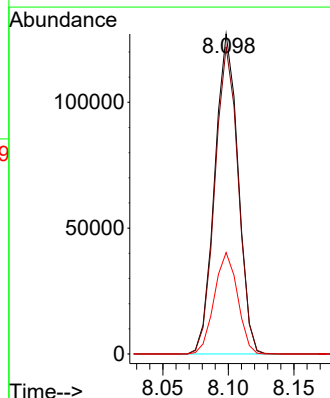
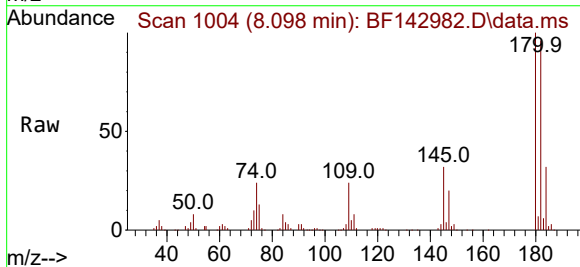
Tgt Ion:180 Resp: 157040

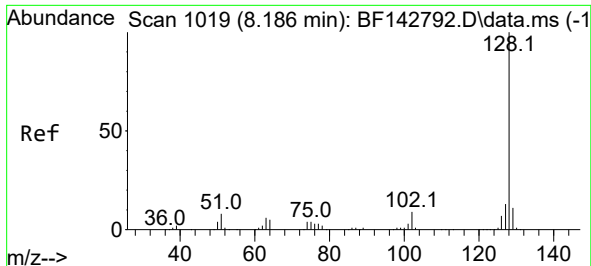
Ion Ratio Lower Upper

180 100

182 95.9 76.4 114.6

145 31.7 25.8 38.8

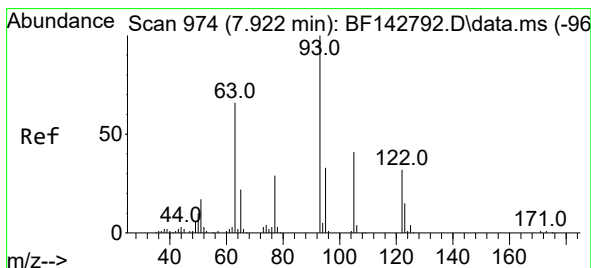
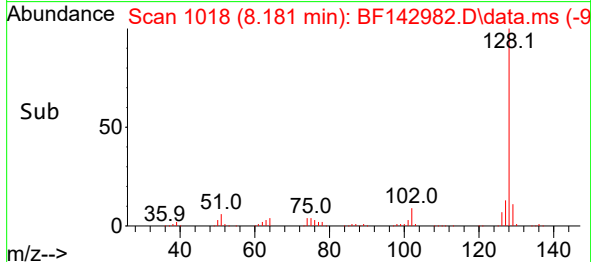
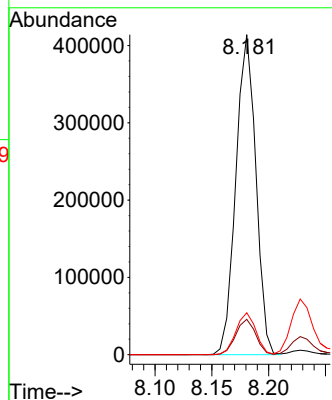
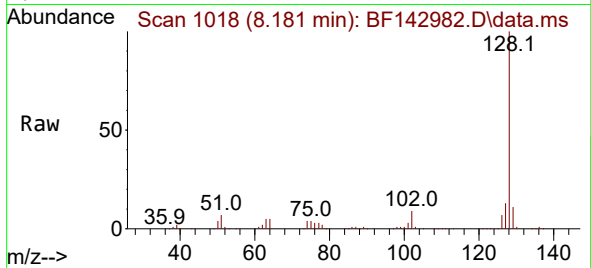




#31
Naphthalene
Concen: 46.430 ng
RT: 8.181 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

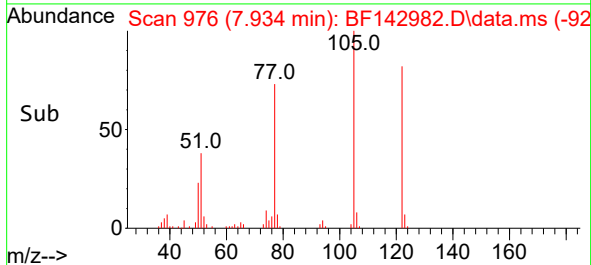
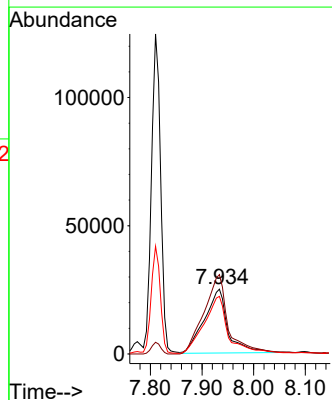
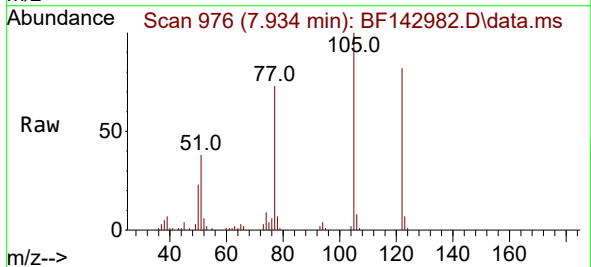
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

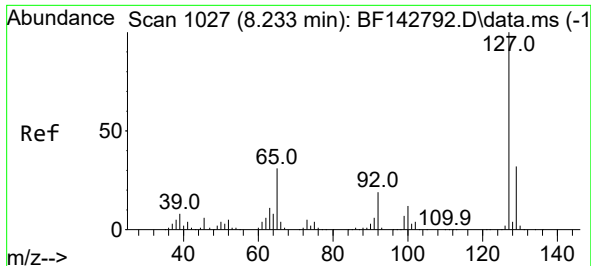
Tgt Ion:128 Resp: 506422
Ion Ratio Lower Upper
128 100
129 11.1 8.9 13.3
127 13.1 10.4 15.6



#32
Benzoic acid
Concen: 44.682 ng
RT: 7.934 min Scan# 976
Delta R.T. 0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:122 Resp: 79014
Ion Ratio Lower Upper
122 100
105 122.5 104.7 144.7
77 89.0 70.2 110.2

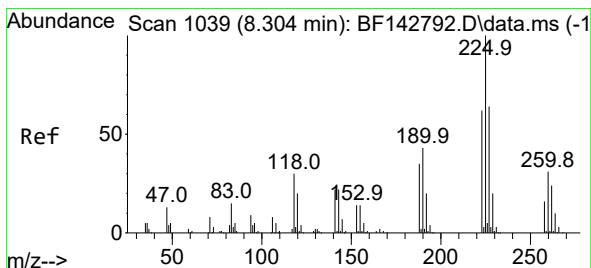
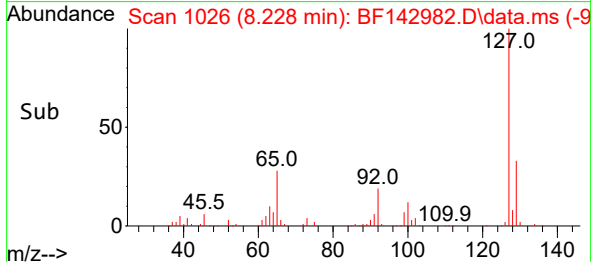
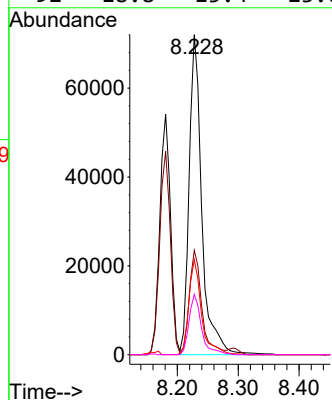
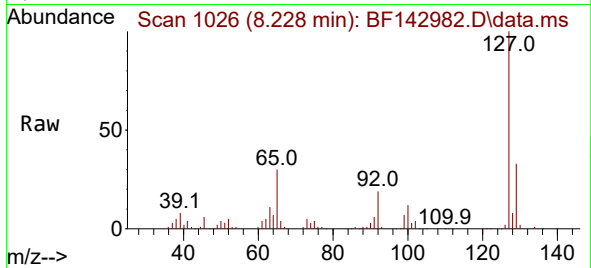




#33
4-Chloroaniline
Concen: 23.504 ng
RT: 8.228 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

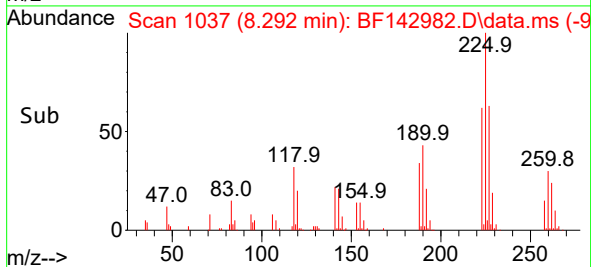
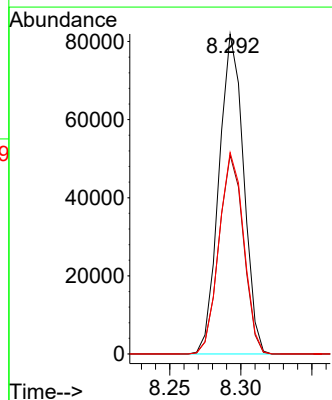
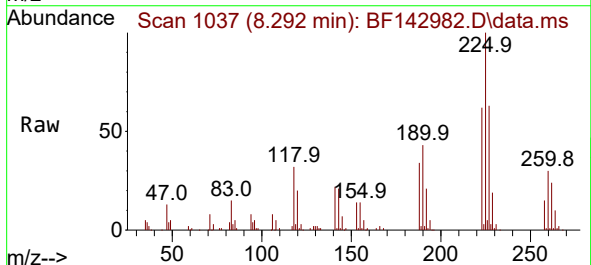
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

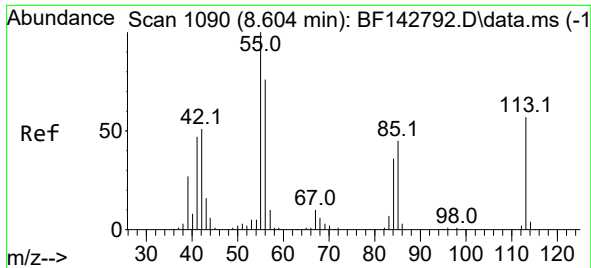
Tgt Ion:127	Resp: 104242
Ion Ratio	Lower Upper
127 100	
129 32.6	25.9 38.9
65 29.7	24.6 36.8
92 18.8	15.4 23.0



#34
Hexachlorobutadiene
Concen: 46.635 ng
RT: 8.292 min Scan# 1037
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:225	Resp: 98678
Ion Ratio	Lower Upper
225 100	
223 62.2	49.9 74.9
227 62.9	51.4 77.0

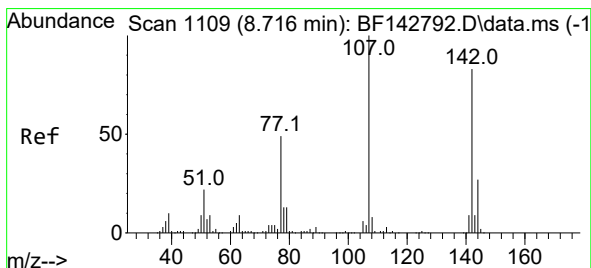
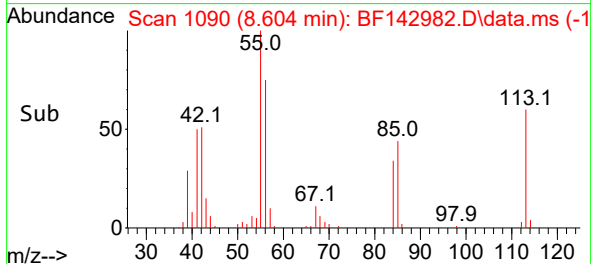
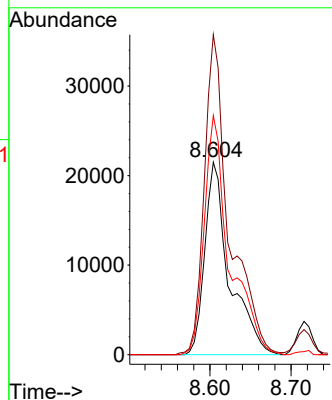
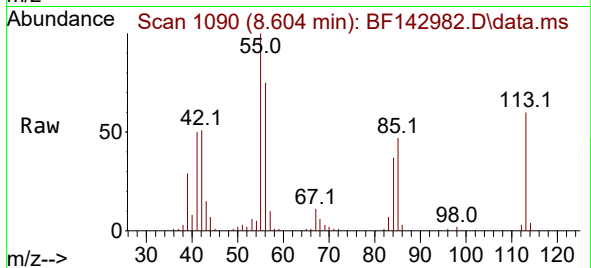




#35
Caprolactam
Concen: 54.620 ng
RT: 8.604 min Scan# 1090
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

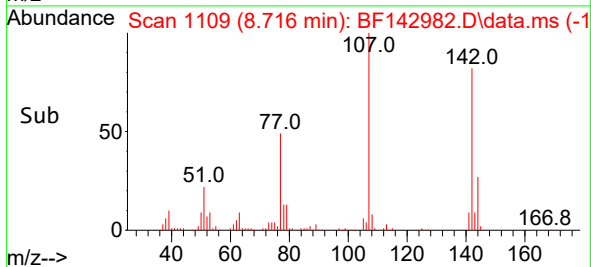
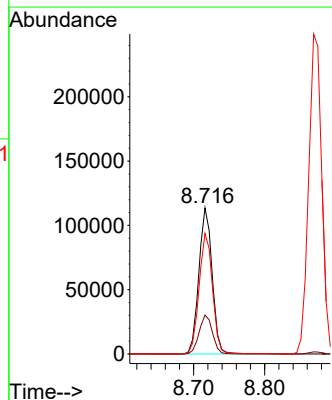
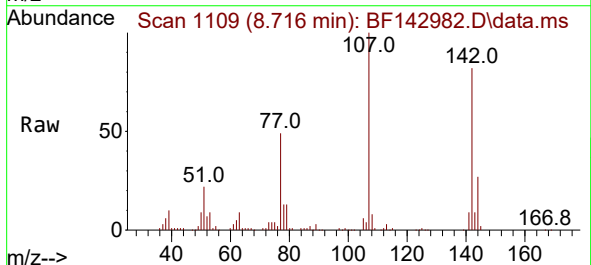
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

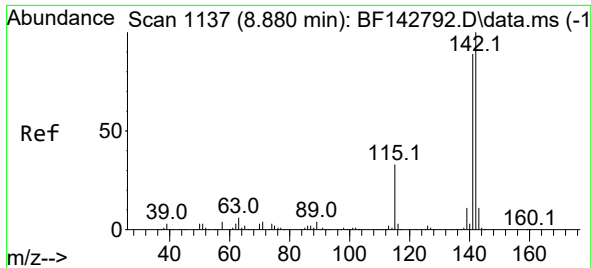
Tgt Ion:113 Resp: 45342
Ion Ratio Lower Upper
113 100
55 166.2 154.4 194.4
56 124.1 112.1 152.1



#36
4-Chloro-3-methylphenol
Concen: 47.553 ng
RT: 8.716 min Scan# 1109
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:107 Resp: 148675
Ion Ratio Lower Upper
107 100
144 26.6 21.3 31.9
142 82.4 66.6 100.0

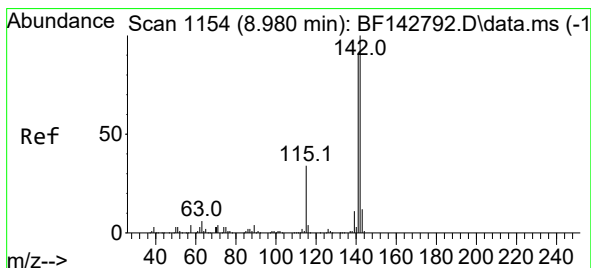
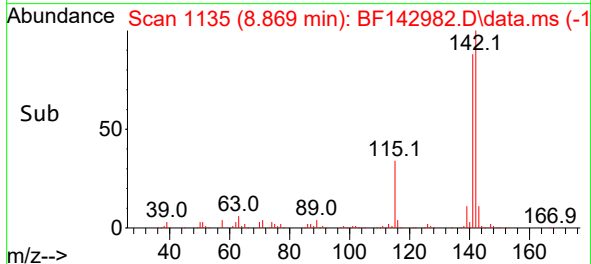
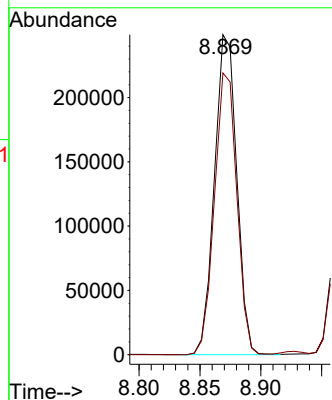
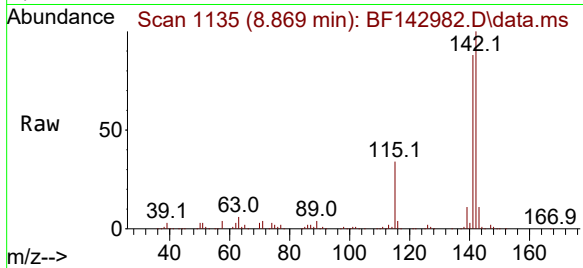




#37
2-Methylnaphthalene
Concen: 46.932 ng
RT: 8.869 min Scan# 1135
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

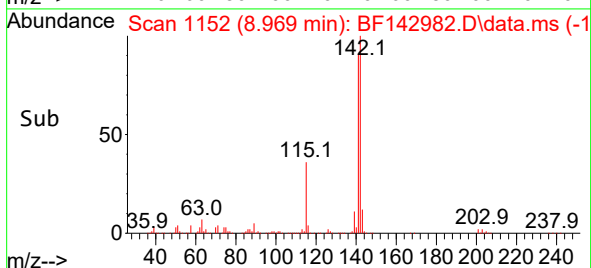
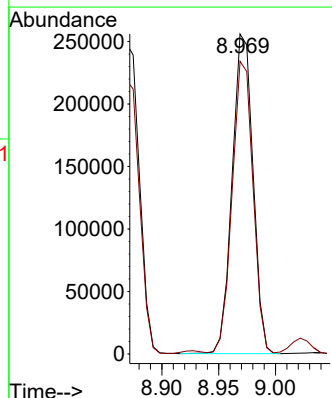
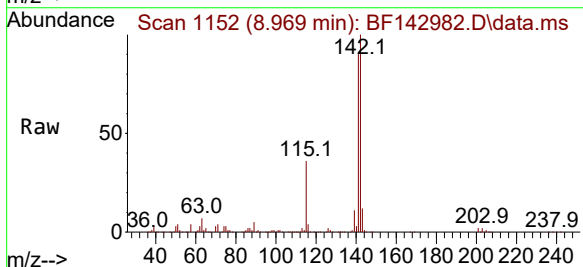
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

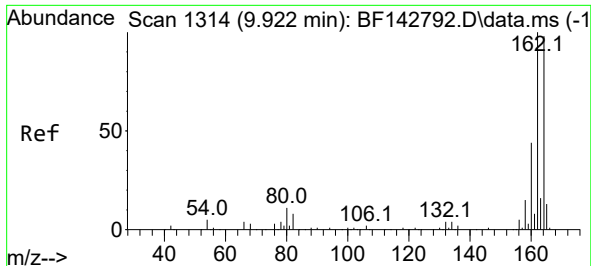
Tgt Ion:142 Resp: 317355
Ion Ratio Lower Upper
142 100
141 88.1 70.9 106.3



#38
1-Methylnaphthalene
Concen: 46.586 ng
RT: 8.969 min Scan# 1152
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:142 Resp: 326102
Ion Ratio Lower Upper
142 100
141 91.4 73.0 109.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1113

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

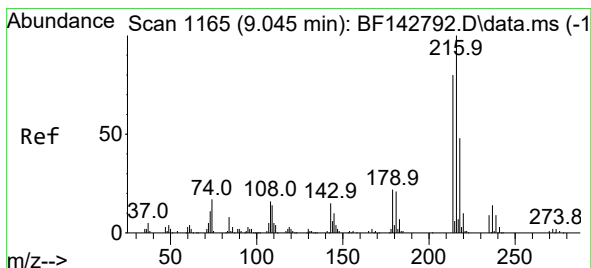
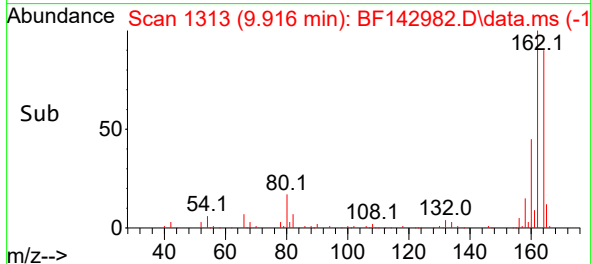
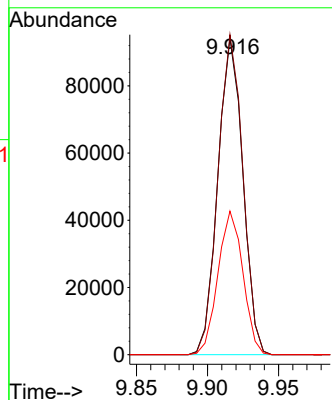
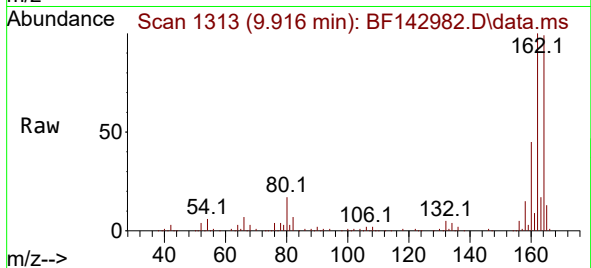
Tgt Ion:164 Resp: 115354

Ion Ratio Lower Upper

164 100

162 101.2 81.8 122.8

160 45.4 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 47.365 ng

RT: 9.039 min Scan# 1164

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Tgt Ion:216 Resp: 161218

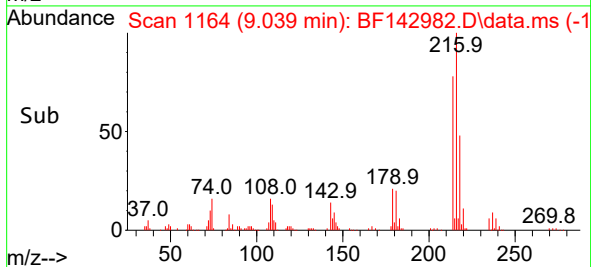
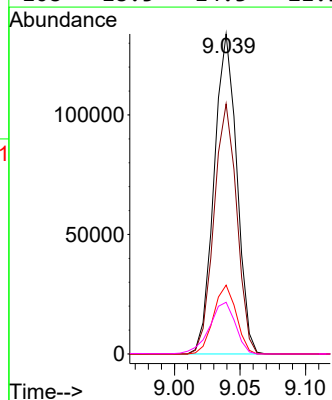
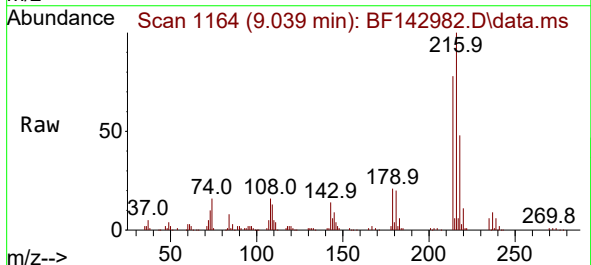
Ion Ratio Lower Upper

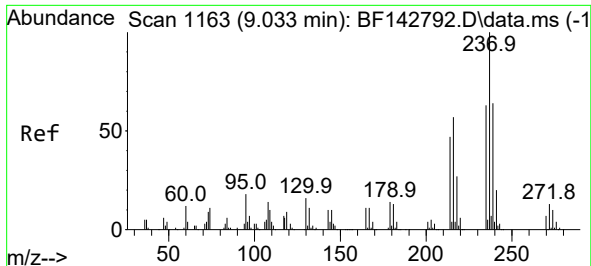
216 100

214 78.2 63.7 95.5

179 21.5 17.6 26.4

108 18.5 14.3 21.5

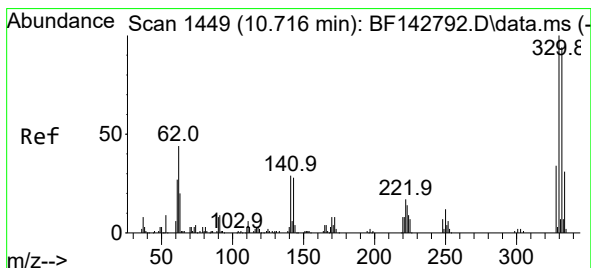
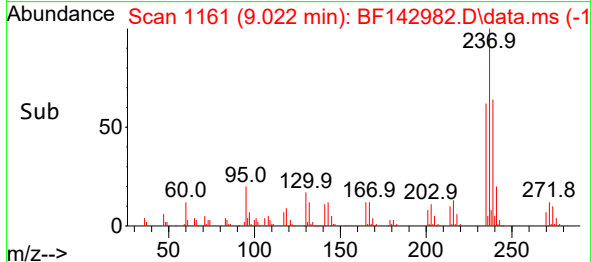
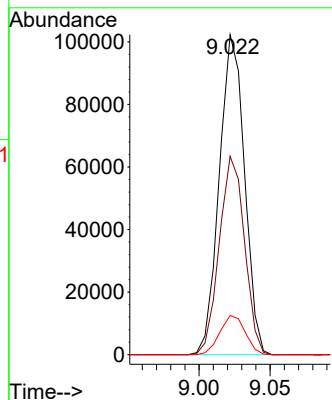
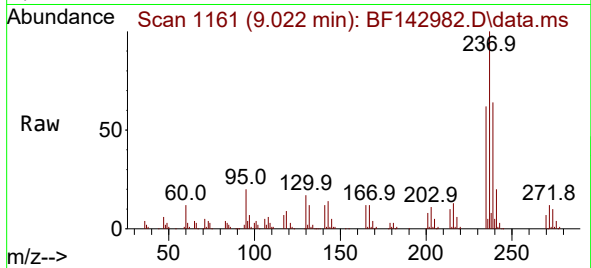




#41
Hexachlorocyclopentadiene
Concen: 65.332 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

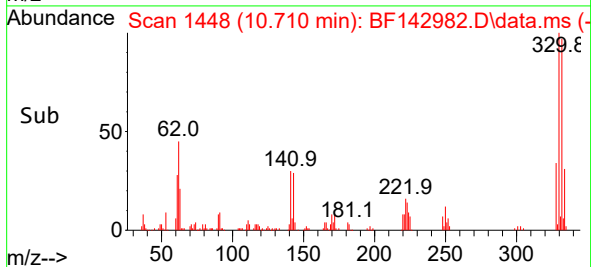
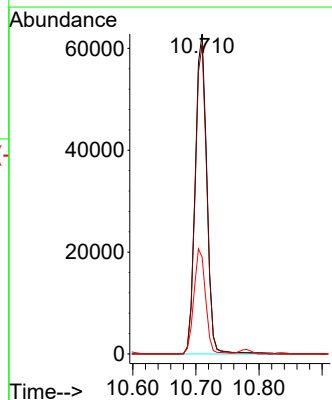
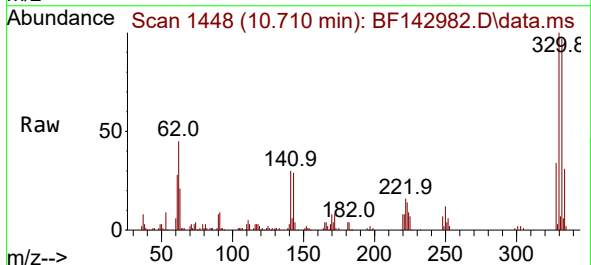
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

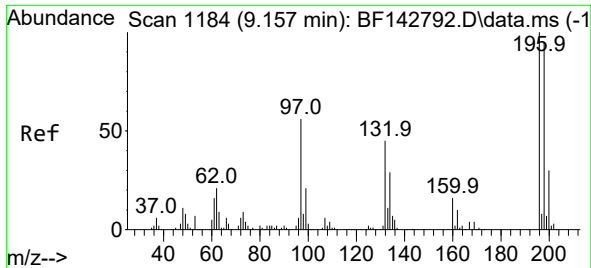
Tgt Ion:237 Resp: 126192
Ion Ratio Lower Upper
237 100
235 62.0 43.4 83.4
272 12.2 0.0 32.7



#42
2,4,6-Tribromophenol
Concen: 67.790 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:330 Resp: 80472
Ion Ratio Lower Upper
330 100
332 96.1 75.0 112.6
141 32.9 25.3 37.9

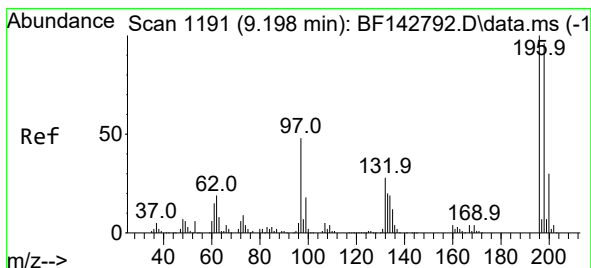
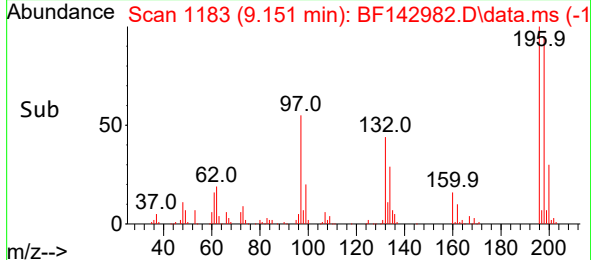
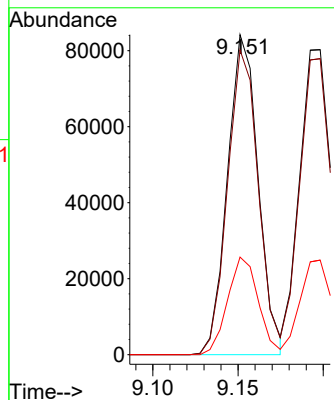
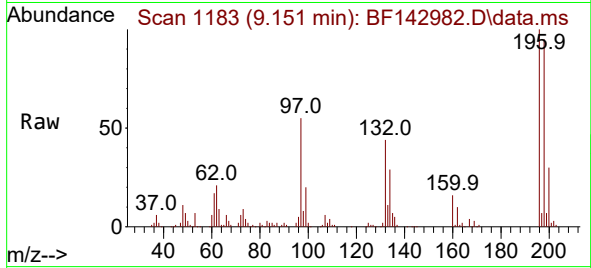




#43
 2,4,6-Trichlorophenol
 Concen: 47.636 ng
 RT: 9.151 min Scan# 1183
 Delta R.T. -0.006 min
 Lab File: BF142982.D
 Acq: 02 Jul 2025 20:52

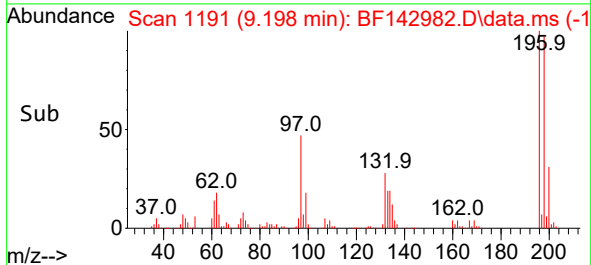
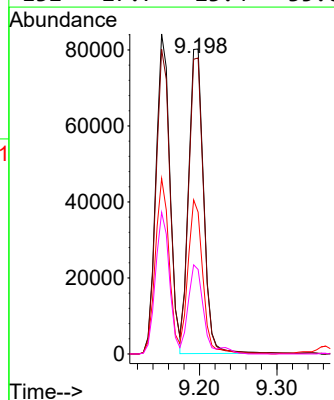
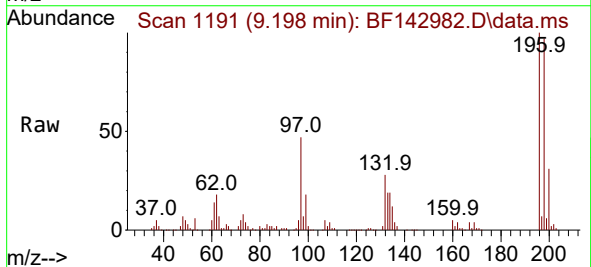
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMS

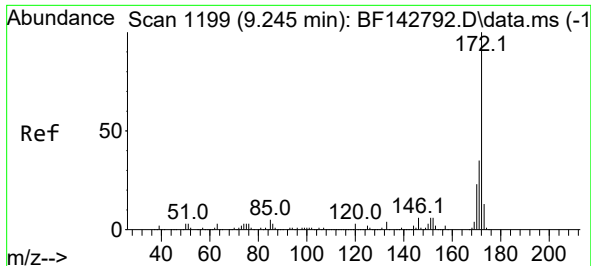
Tgt Ion:196 Resp: 105655
 Ion Ratio Lower Upper
 196 100
 198 95.2 76.2 114.2
 200 30.5 24.1 36.1



#44
 2,4,5-Trichlorophenol
 Concen: 46.159 ng
 RT: 9.198 min Scan# 1191
 Delta R.T. 0.000 min
 Lab File: BF142982.D
 Acq: 02 Jul 2025 20:52

Tgt Ion:196 Resp: 107771
 Ion Ratio Lower Upper
 196 100
 198 97.1 76.6 115.0
 97 46.5 38.2 57.2
 132 27.7 23.4 35.0

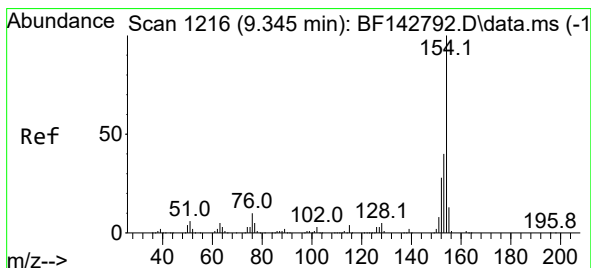
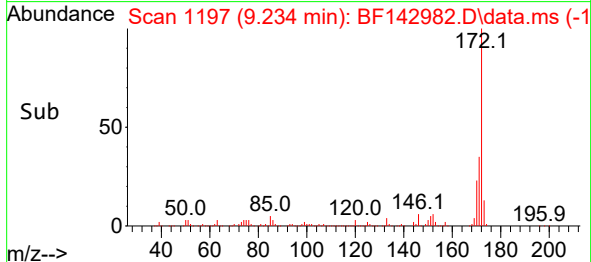
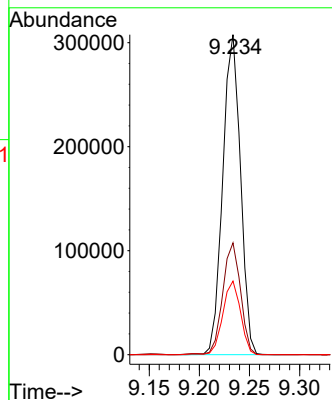
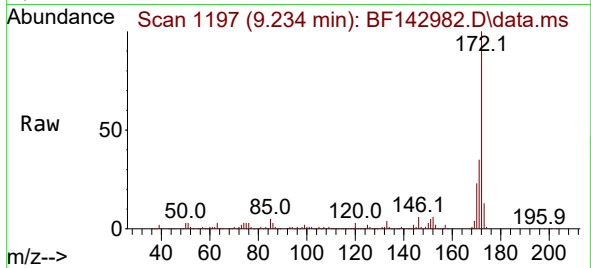




#45
2-Fluorobiphenyl
Concen: 43.004 ng
RT: 9.234 min Scan# 1199
Delta R.T. -0.011 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

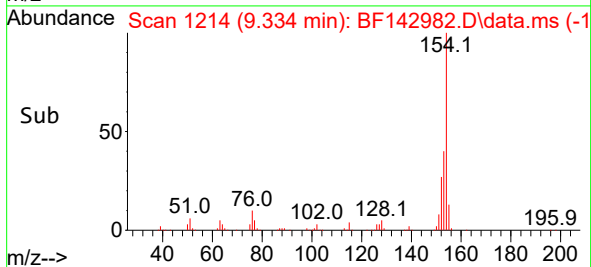
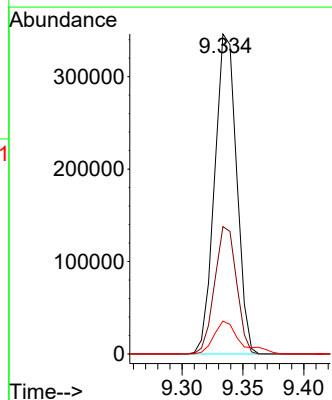
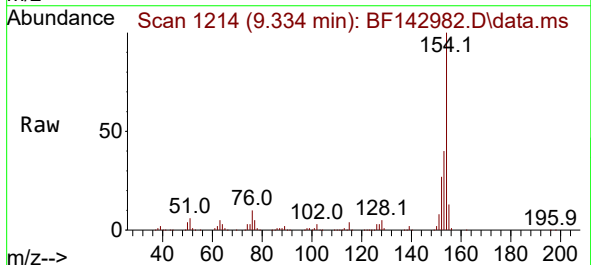
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

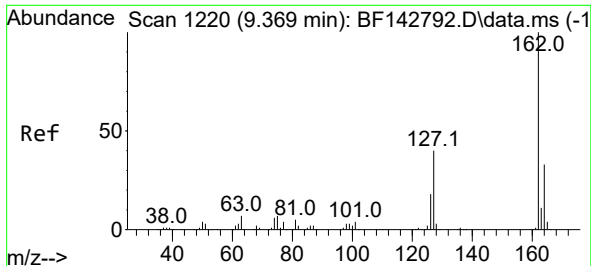
Tgt Ion:172 Resp: 377618
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.4
170 23.0 18.5 27.7



#46
1,1'-Biphenyl
Concen: 47.811 ng
RT: 9.334 min Scan# 1214
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:154 Resp: 435667
Ion Ratio Lower Upper
154 100
153 39.8 20.3 60.3
76 10.3 0.0 30.3





#47

2-Chloronaphthalene

Concen: 46.281 ng

RT: 9.363 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

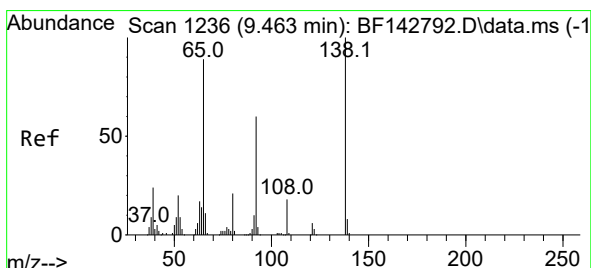
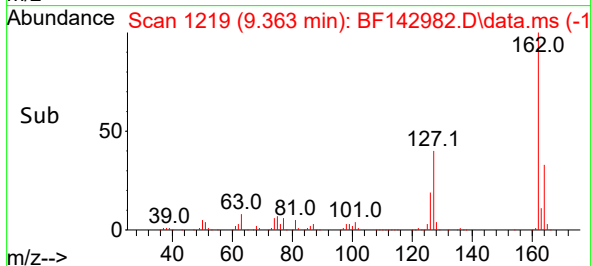
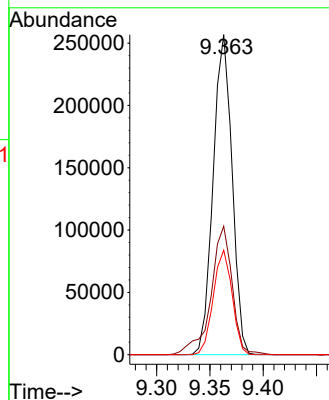
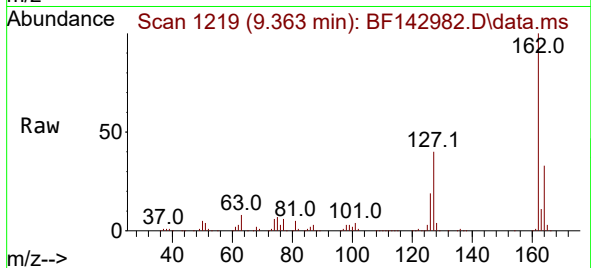
Tgt Ion:162 Resp: 316479

Ion Ratio Lower Upper

162 100

127 40.1 32.2 48.2

164 32.6 26.1 39.1



#48

2-Nitroaniline

Concen: 48.062 ng

RT: 9.457 min Scan# 1235

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

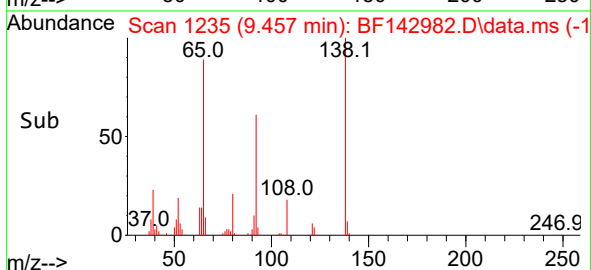
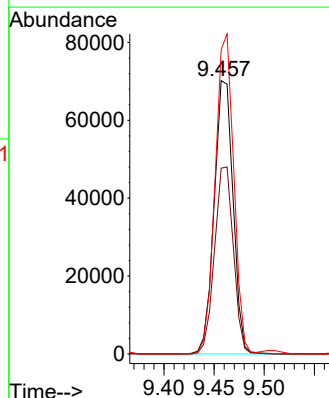
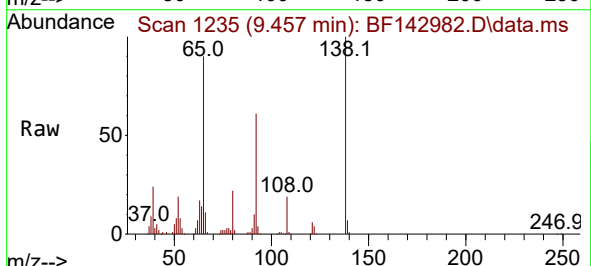
Tgt Ion: 65 Resp: 92141

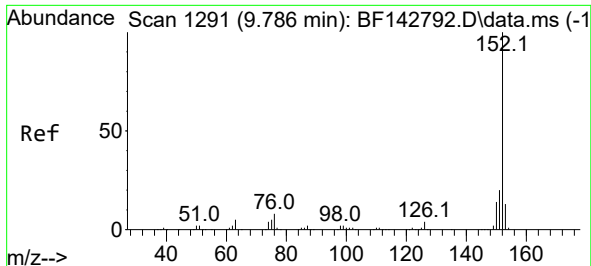
Ion Ratio Lower Upper

65 100

92 68.0 53.8 80.6

138 111.3 89.6 134.4





#49

Acenaphthylene

Concen: 47.284 ng

RT: 9.781 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

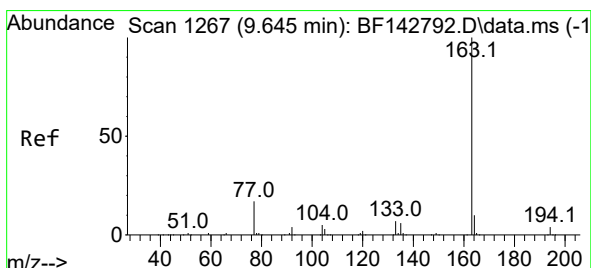
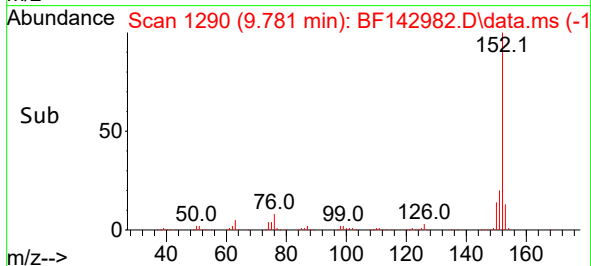
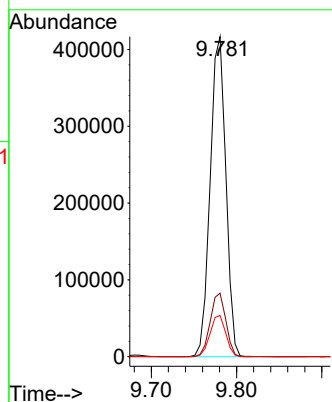
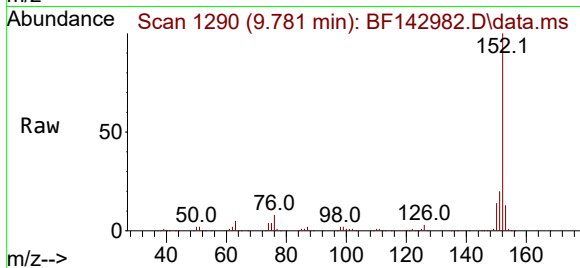
Tgt Ion:152 Resp: 532281

Ion Ratio Lower Upper

152 100

151 19.9 16.1 24.1

153 12.9 10.4 15.6



#50

Dimethylphthalate

Concen: 50.571 ng

RT: 9.639 min Scan# 1266

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

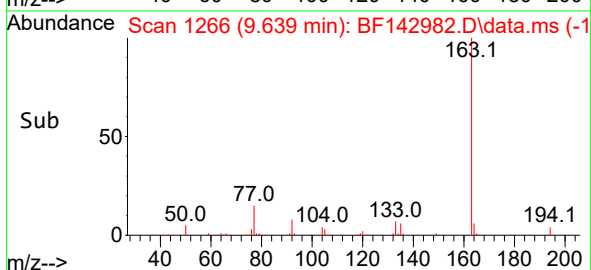
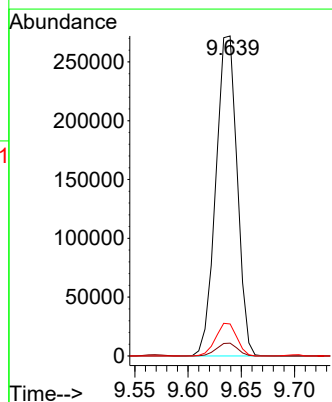
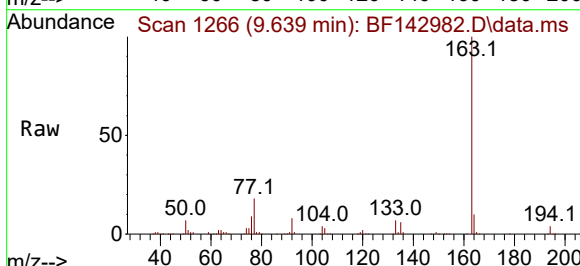
Tgt Ion:163 Resp: 377610

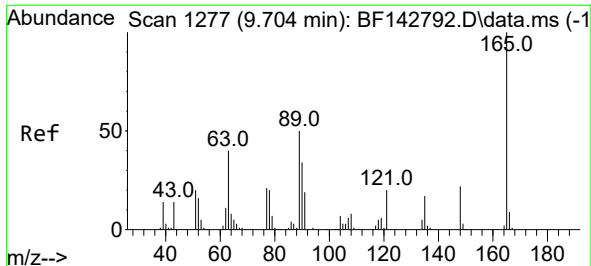
Ion Ratio Lower Upper

163 100

194 4.0 3.3 4.9

164 10.0 8.0 12.0

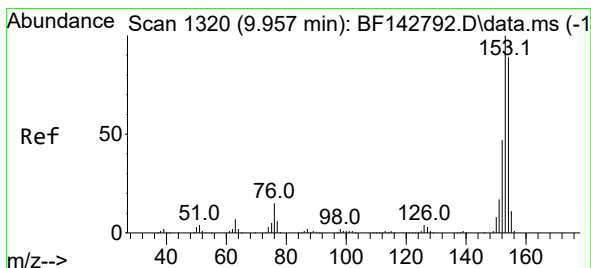
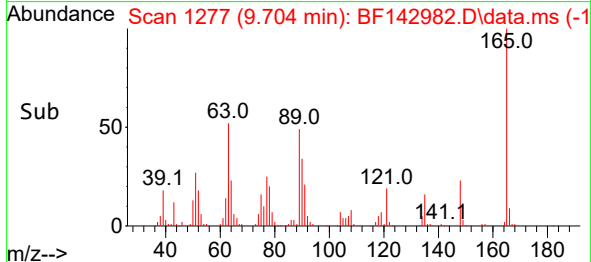
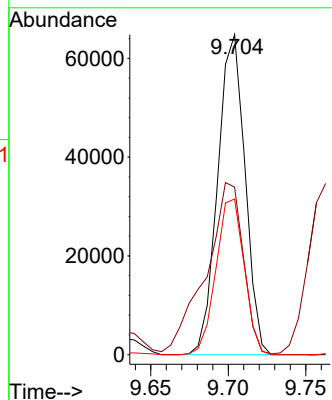
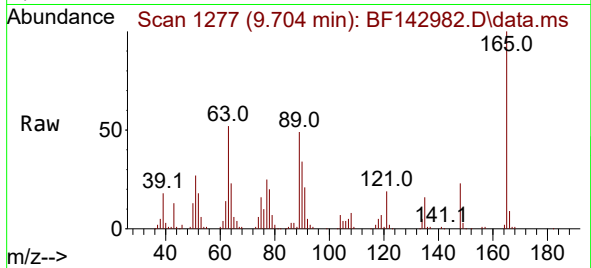




#51
2,6-Dinitrotoluene
Concen: 48.498 ng
RT: 9.704 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

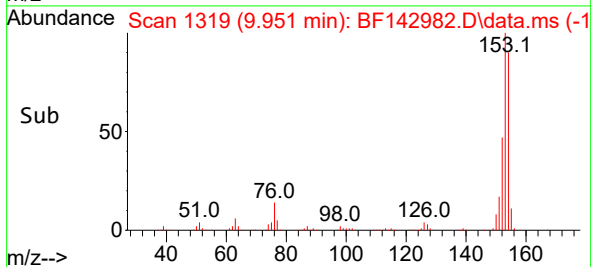
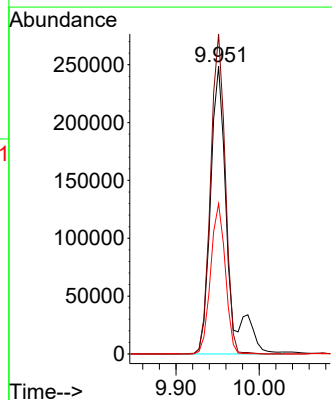
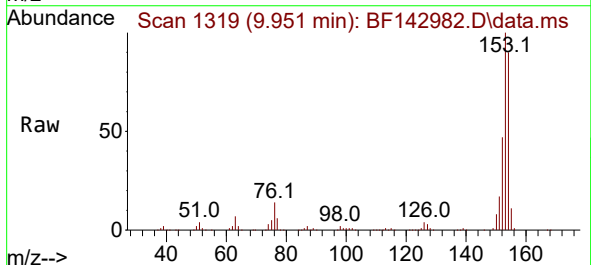
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

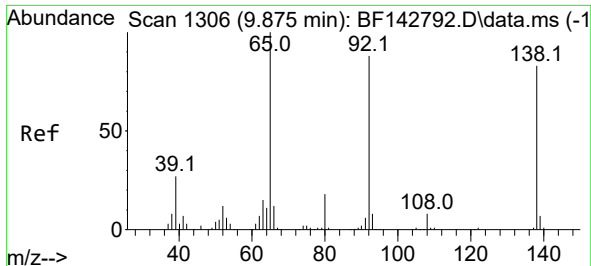
Tgt Ion:165 Resp: 79528
Ion Ratio Lower Upper
165 100
63 52.4 44.2 66.4
89 48.7 39.8 59.8



#52
Acenaphthene
Concen: 50.956 ng m
RT: 9.951 min Scan# 1319
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:154 Resp: 349979
Ion Ratio Lower Upper
154 100
153 111.3 90.0 135.0
152 52.3 41.9 62.9

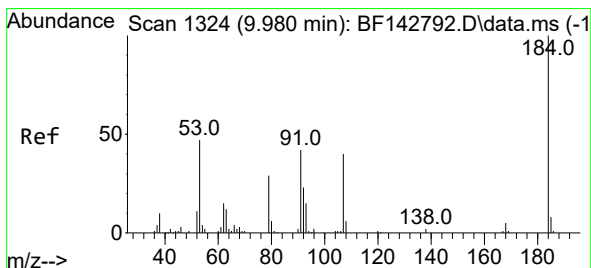
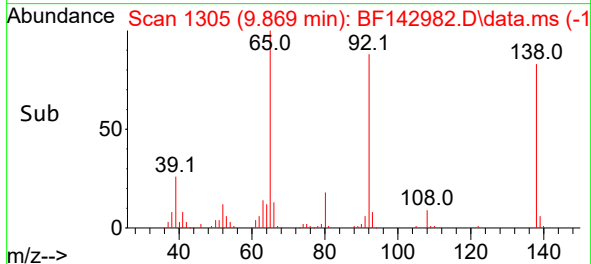
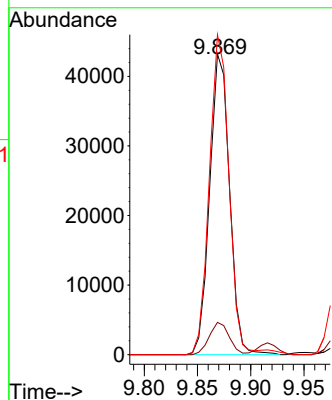
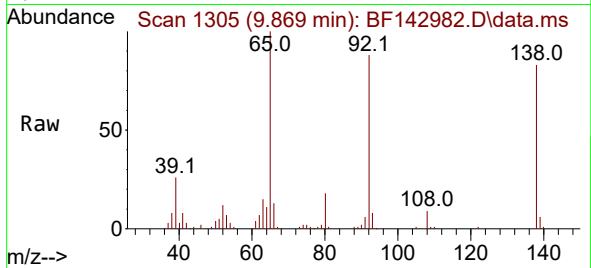




#53
3-Nitroaniline
Concen: 31.030 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

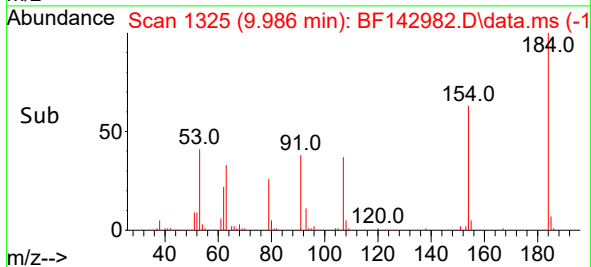
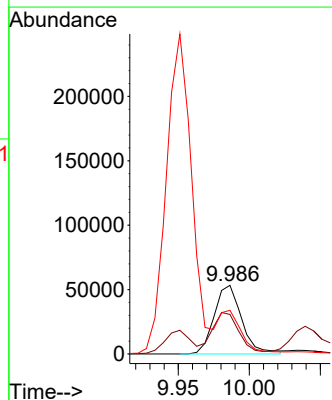
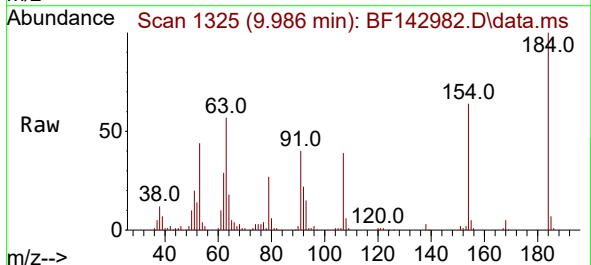
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

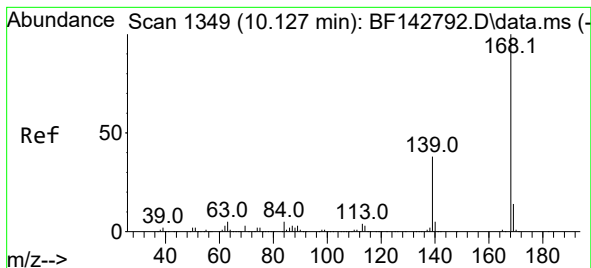
Tgt Ion:138 Resp: 56022
Ion Ratio Lower Upper
138 100
108 10.7 8.1 12.1
92 106.4 85.1 127.7



#54
2,4-Dinitrophenol
Concen: 87.477 ng
RT: 9.986 min Scan# 1325
Delta R.T. 0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:184 Resp: 71826
Ion Ratio Lower Upper
184 100
63 57.5 50.6 75.8
154 63.6 51.8 77.8





#55

Dibenzenofuran

Concen: 46.470 ng

RT: 10.122 min Scan# 1348

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

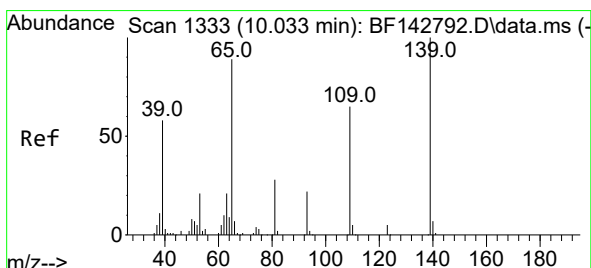
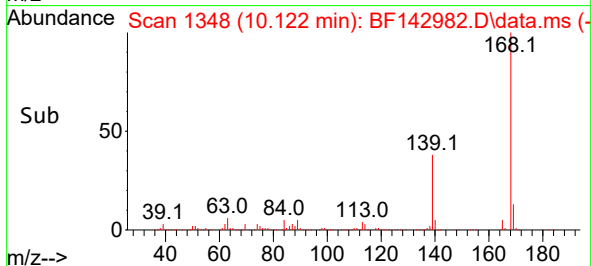
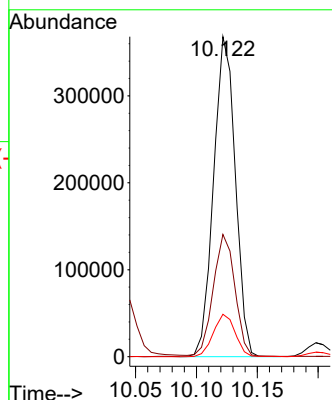
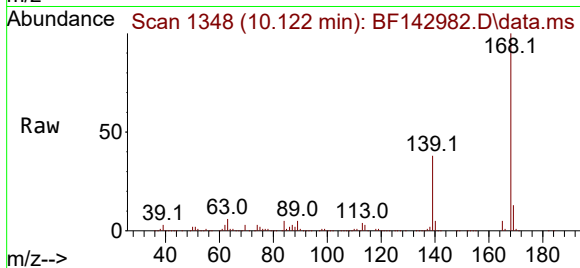
Tgt Ion:168 Resp: 457672

Ion Ratio Lower Upper

168 100

139 38.2 30.2 45.4

169 13.2 10.8 16.2



#56

4-Nitrophenol

Concen: 85.325 ng

RT: 10.039 min Scan# 1334

Delta R.T. 0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

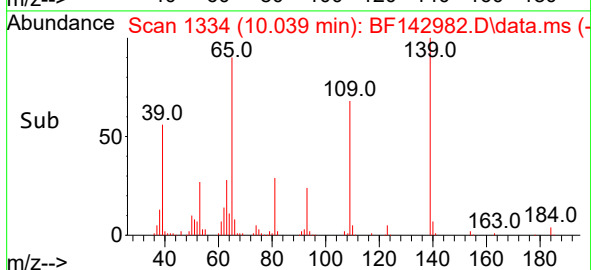
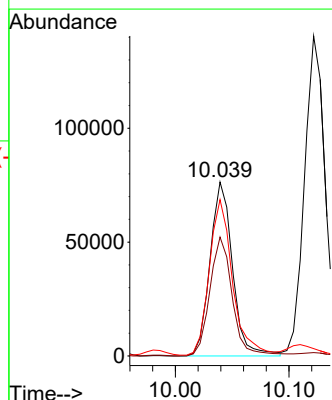
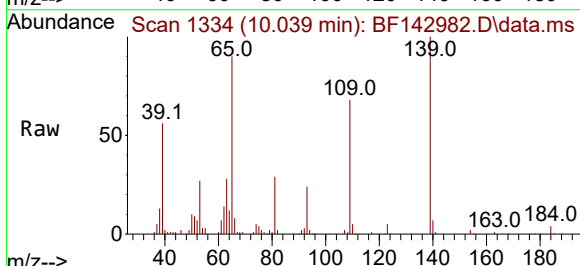
Tgt Ion:139 Resp: 105462

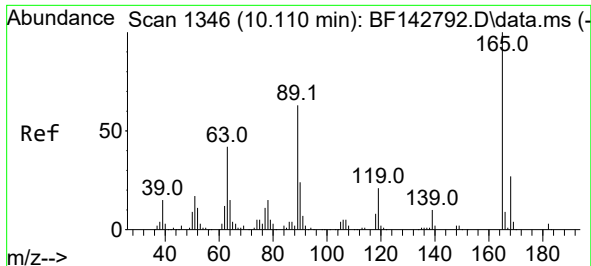
Ion Ratio Lower Upper

139 100

109 68.3 44.7 84.7

65 89.9 69.8 109.8





#57

2,4-Dinitrotoluene

Concen: 47.604 ng

RT: 10.110 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

Tgt Ion:165 Resp: 103688

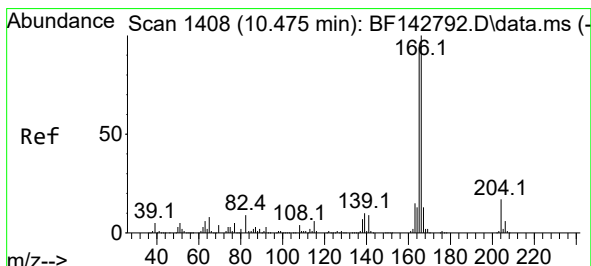
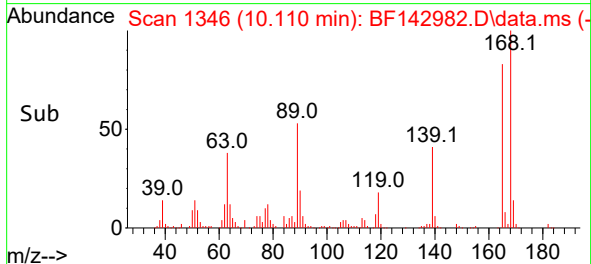
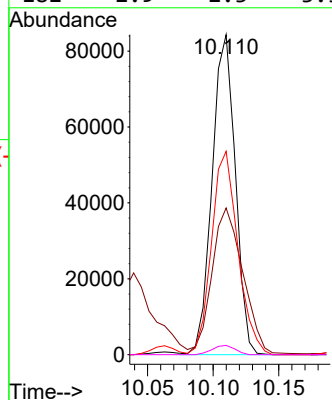
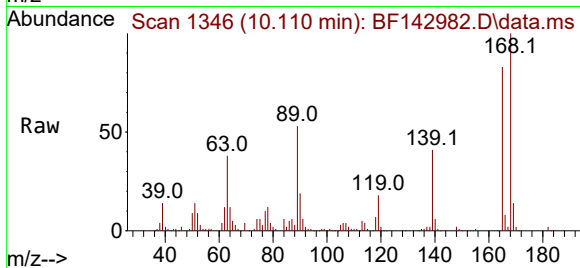
Ion Ratio Lower Upper

165 100

63 45.9 33.9 50.9

89 63.6 50.6 75.8

182 2.9 2.3 3.5



#58

Fluorene

Concen: 47.539 ng

RT: 10.469 min Scan# 1407

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

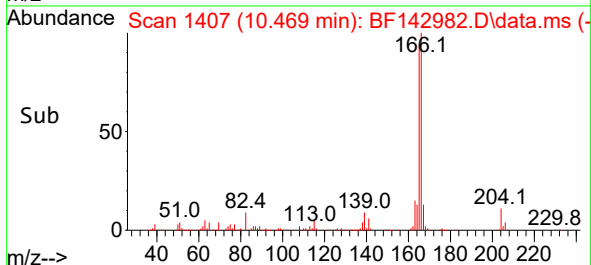
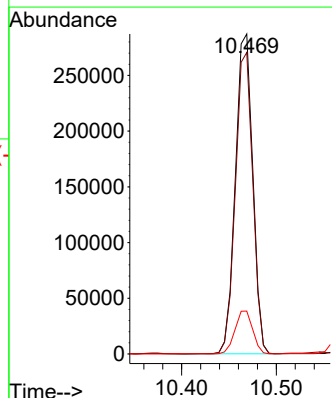
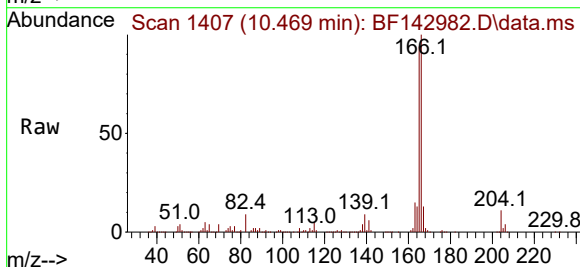
Tgt Ion:166 Resp: 365658

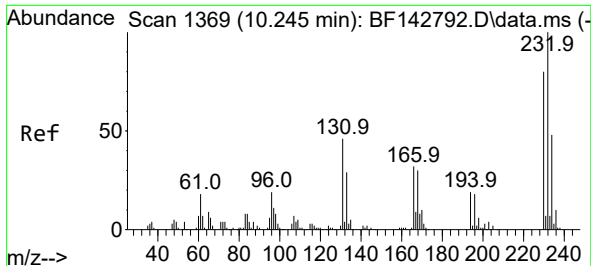
Ion Ratio Lower Upper

166 100

165 94.2 75.2 112.8

167 13.4 10.6 15.8

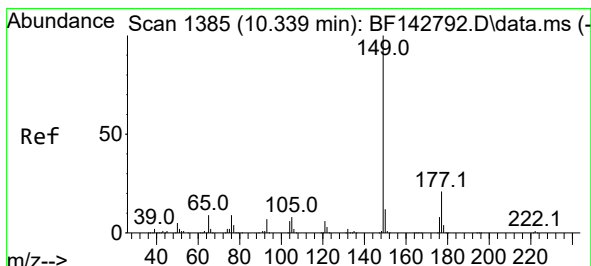
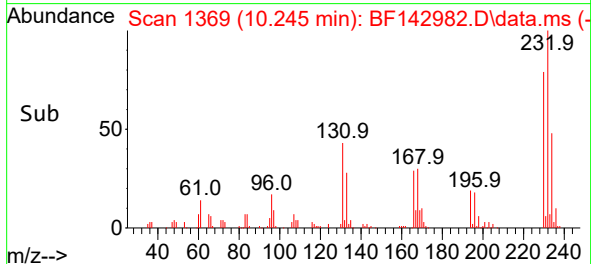
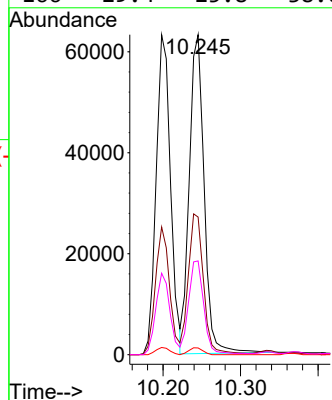
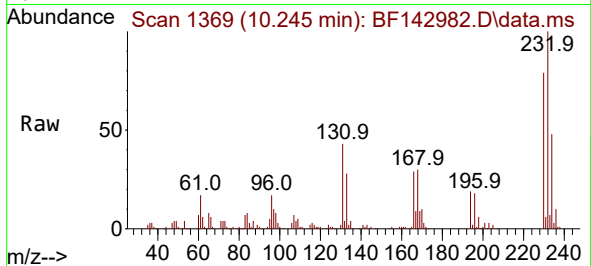




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.647 ng
RT: 10.245 min Scan# 1369
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

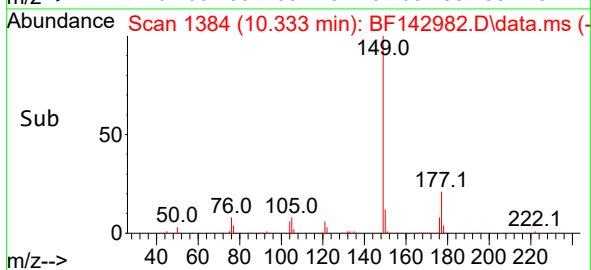
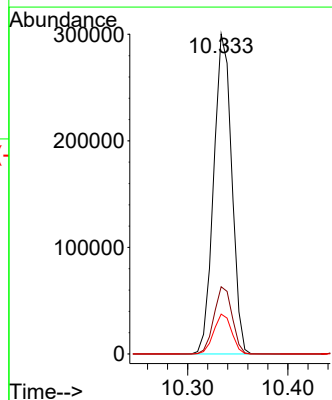
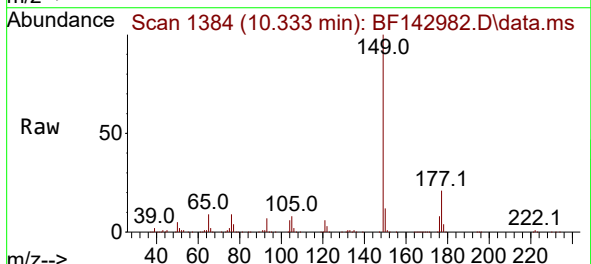
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

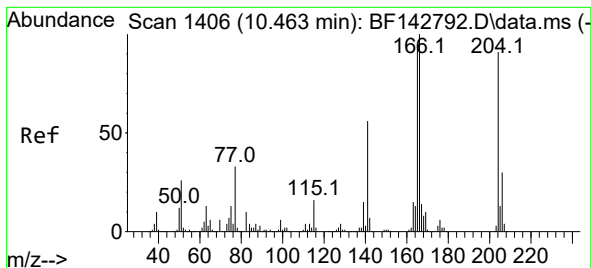
Tgt Ion:232 Resp: 84024
Ion Ratio Lower Upper
232 100
131 44.0 37.6 56.4
130 2.1 1.7 2.5
166 29.4 25.8 38.6



#60
Diethylphthalate
Concen: 51.315 ng
RT: 10.333 min Scan# 1384
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:149 Resp: 375686
Ion Ratio Lower Upper
149 100
177 21.0 17.0 25.6
150 12.4 9.8 14.6

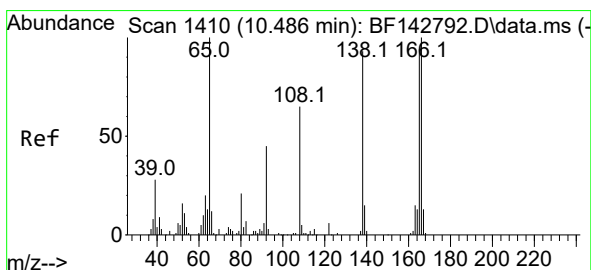
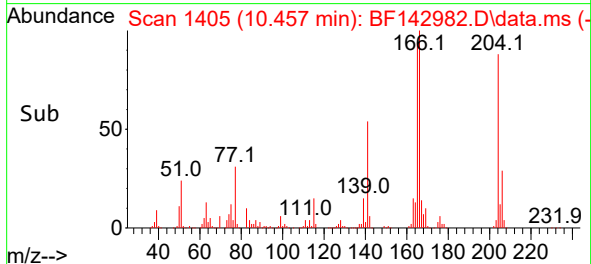
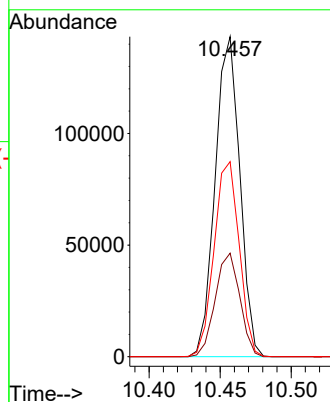
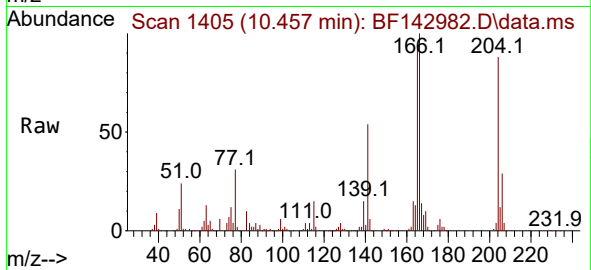




#61
4-Chlorophenyl-phenylether
Concen: 47.139 ng
RT: 10.457 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

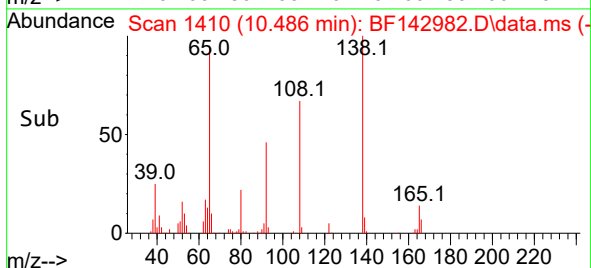
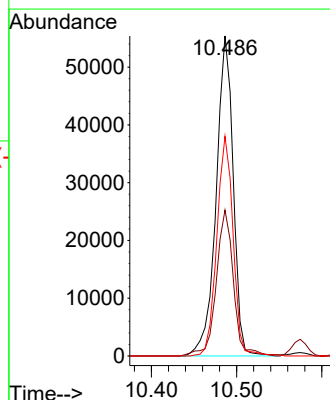
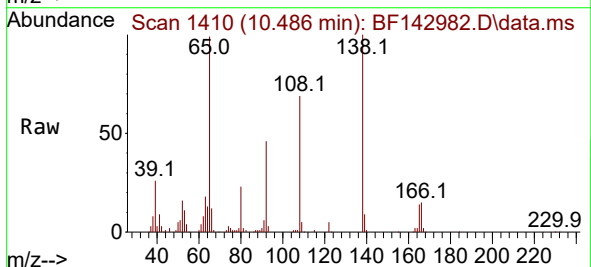
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

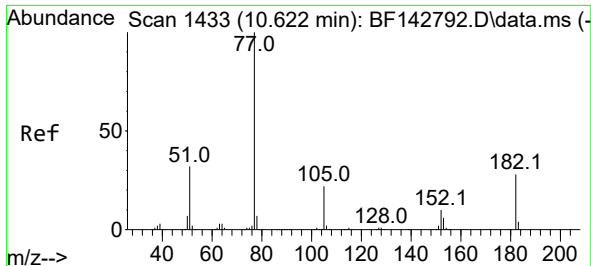
Tgt Ion:204 Resp: 173018
Ion Ratio Lower Upper
204 100
206 32.3 26.3 39.5
141 61.0 49.1 73.7



#62
4-Nitroaniline
Concen: 46.798 ng
RT: 10.486 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:138 Resp: 77272
Ion Ratio Lower Upper
138 100
92 45.6 28.4 68.4
108 68.7 50.2 90.2

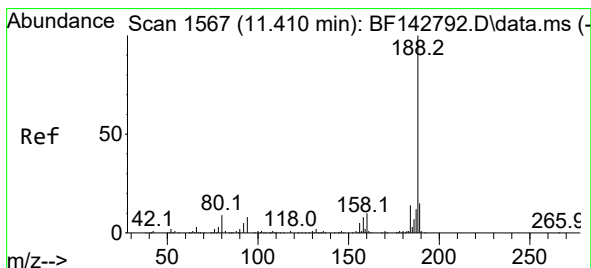
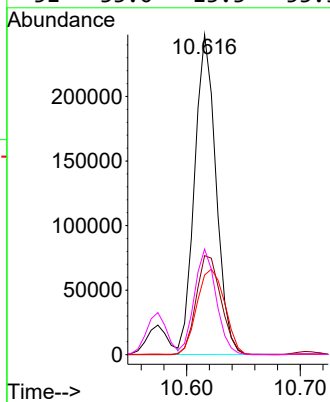
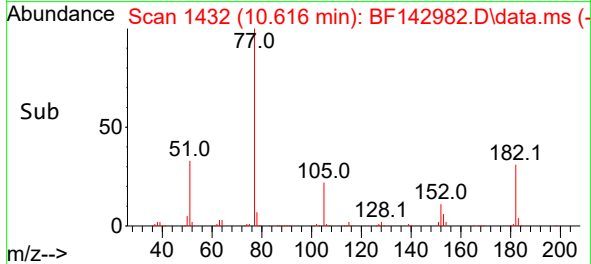
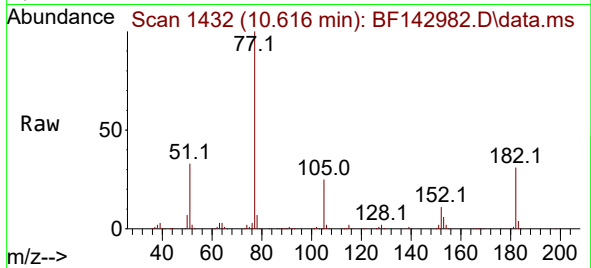




#63
Azobenzene
Concen: 49.573 ng
RT: 10.616 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

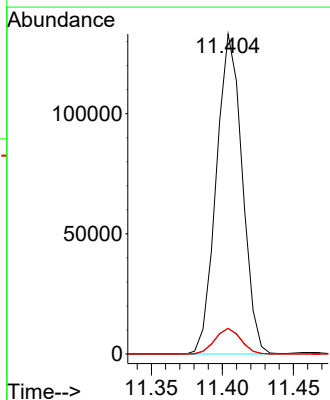
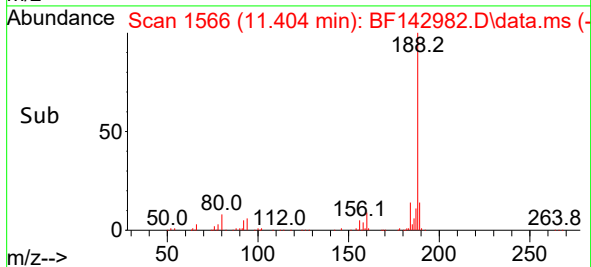
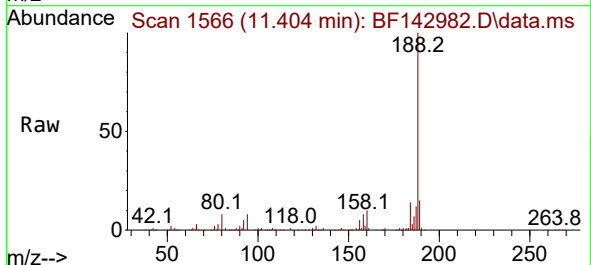
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

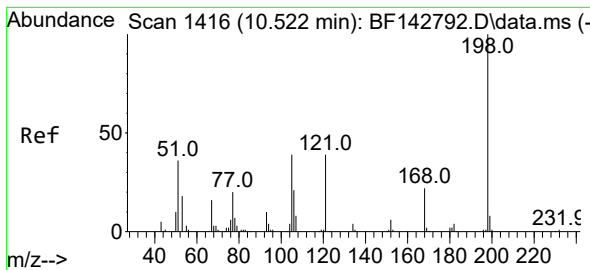
Tgt Ion: 77 Resp: 324375
Ion Ratio Lower Upper
77 100
182 30.9 7.7 47.7
105 24.9 1.9 41.9
51 33.0 13.3 53.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion: 188 Resp: 168872
Ion Ratio Lower Upper
188 100
94 8.0 6.7 10.1
80 8.0 6.9 10.3

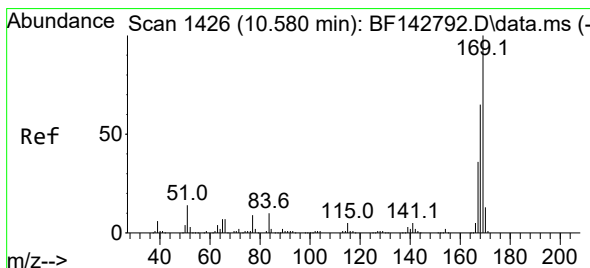
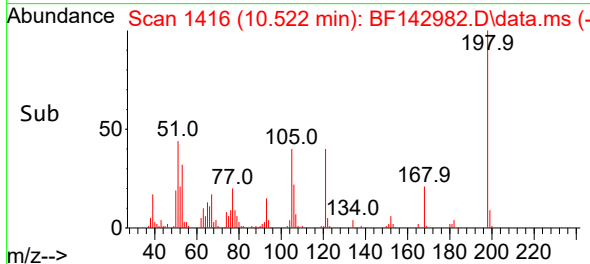
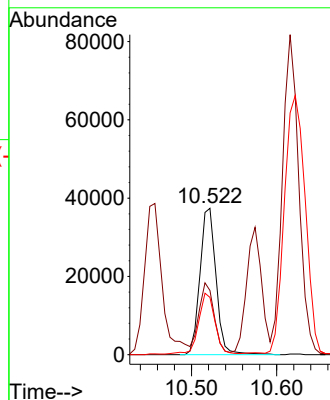
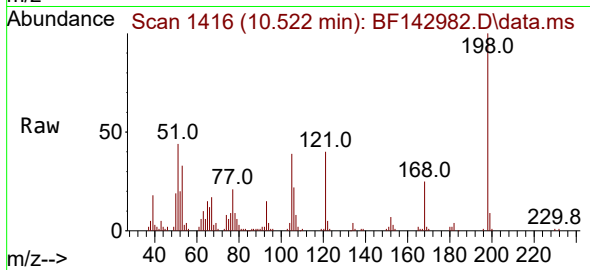




#65
4,6-Dinitro-2-methylphenol
Concen: 48.083 ng
RT: 10.522 min Scan# 1416
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

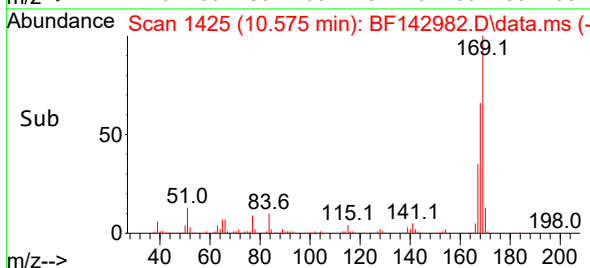
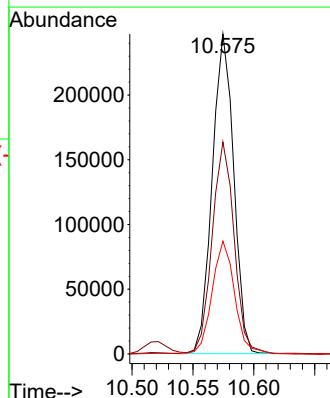
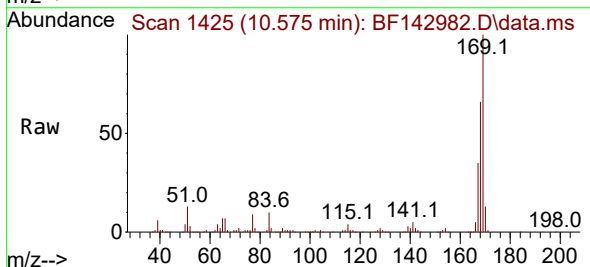
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

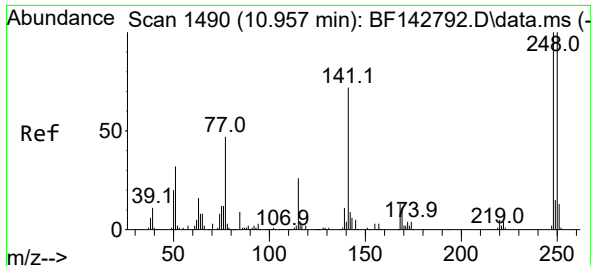
Tgt Ion:198 Resp: 49114
Ion Ratio Lower Upper
198 100
51 43.8 25.4 65.4
105 39.2 20.4 60.4



#66
n-Nitrosodiphenylamine
Concen: 51.611 ng
RT: 10.575 min Scan# 1425
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:169 Resp: 302063
Ion Ratio Lower Upper
169 100
168 66.2 51.9 77.9
167 35.3 28.5 42.7

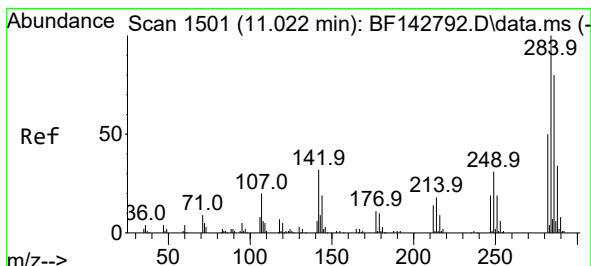
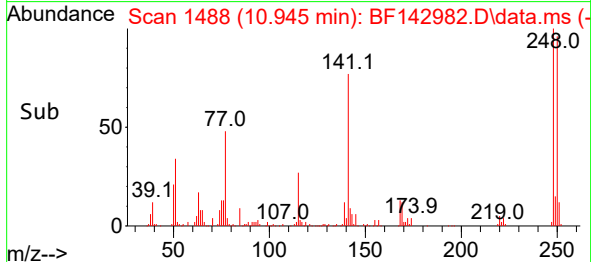
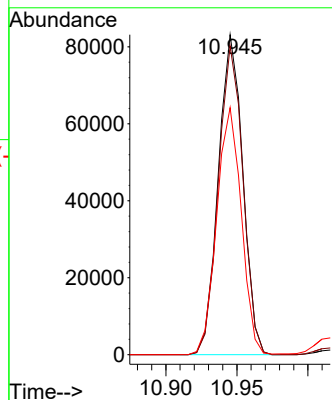
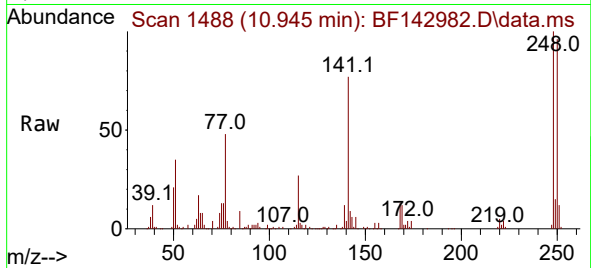




#67
4-Bromophenyl-phenylether
Concen: 51.866 ng
RT: 10.945 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

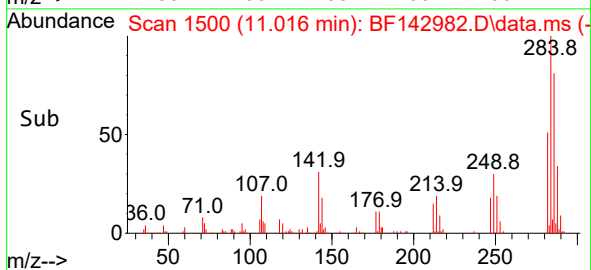
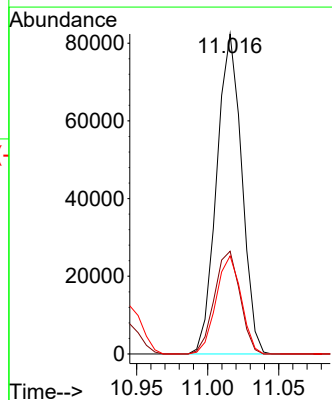
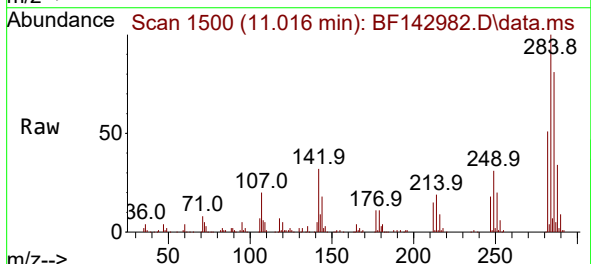
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

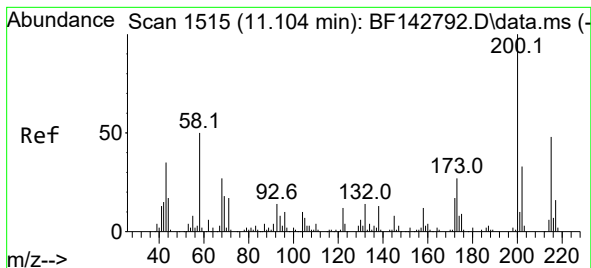
Tgt Ion:248 Resp: 99683
Ion Ratio Lower Upper
248 100
250 96.5 79.8 119.8
141 77.2 57.8 86.6



#68
Hexachlorobenzene
Concen: 47.292 ng
RT: 11.016 min Scan# 1500
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:284 Resp: 100995
Ion Ratio Lower Upper
284 100
142 32.1 25.5 38.3
249 30.7 24.9 37.3





#69

Atrazine

Concen: 58.948 ng

RT: 11.104 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

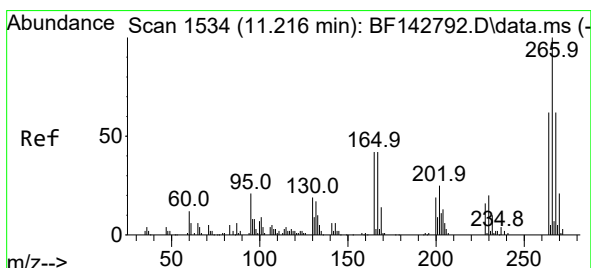
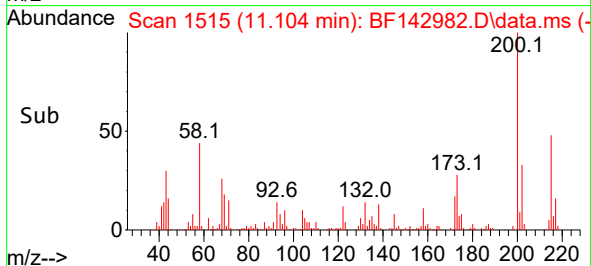
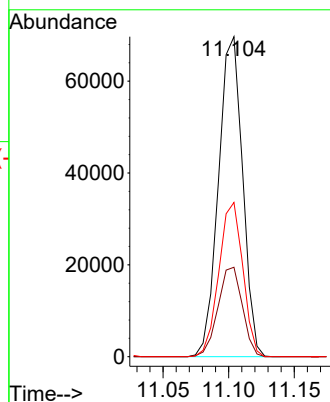
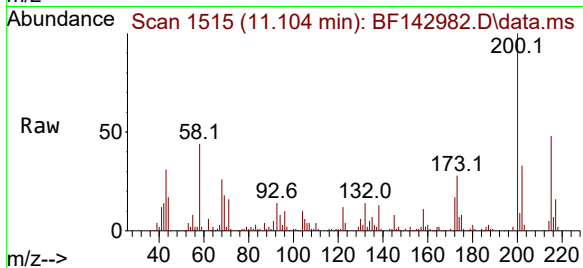
Tgt Ion:200 Resp: 89091

Ion Ratio Lower Upper

200 100

173 27.9 7.4 47.4

215 48.2 28.4 68.4



#70

Pentachlorophenol

Concen: 92.939 ng

RT: 11.210 min Scan# 1533

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

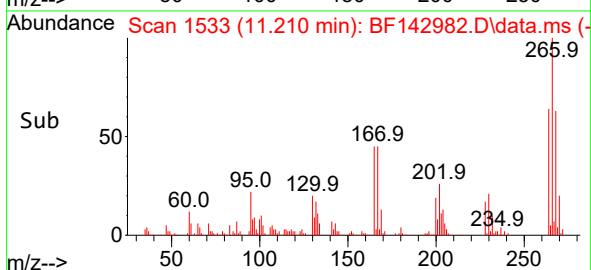
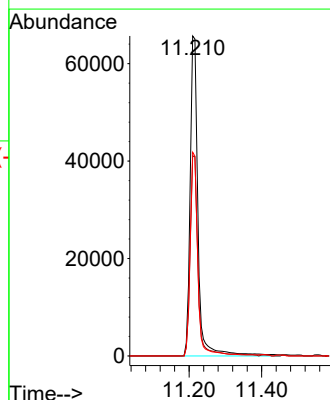
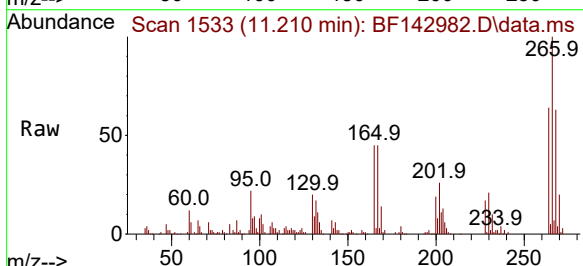
Tgt Ion:266 Resp: 98902

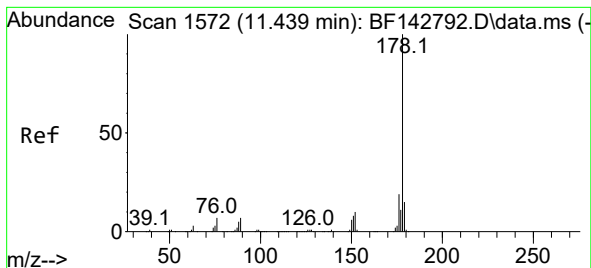
Ion Ratio Lower Upper

266 100

268 62.6 49.8 74.8

264 63.7 49.9 74.9





#71

Phenanthrene

Concen: 58.665 ng

RT: 11.433 min Scan# 1572

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

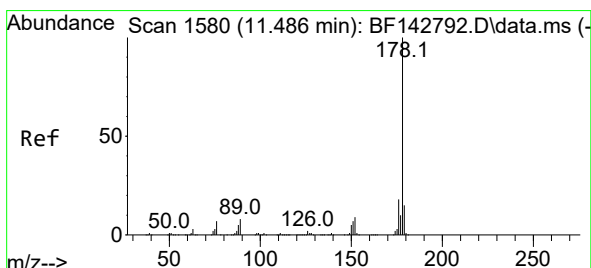
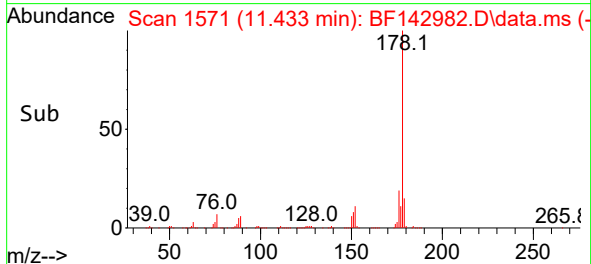
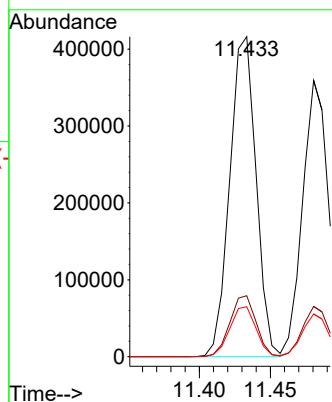
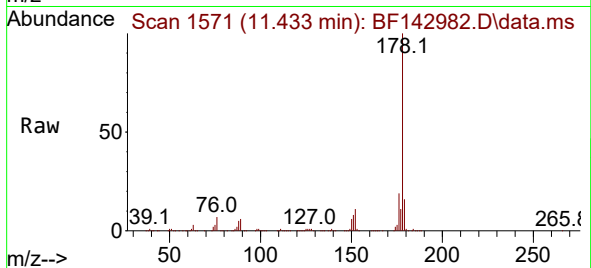
Tgt Ion:178 Resp: 536655

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 15.6 12.0 18.0



#72

Anthracene

Concen: 48.316 ng

RT: 11.480 min Scan# 1579

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

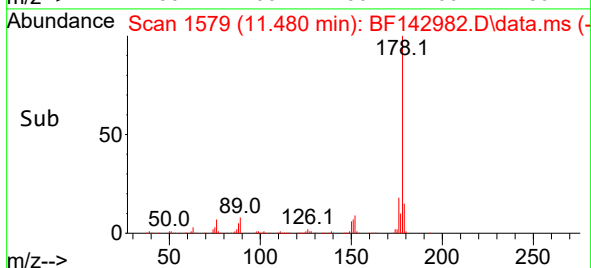
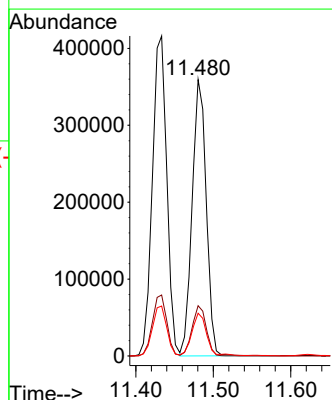
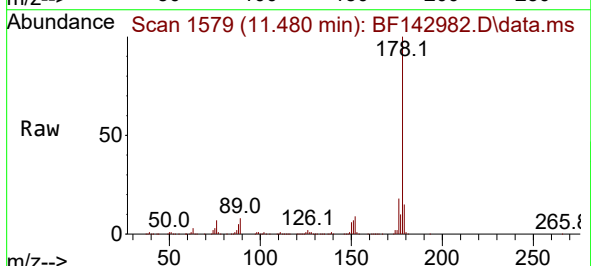
Tgt Ion:178 Resp: 453294

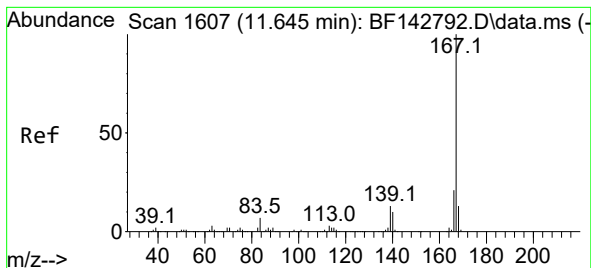
Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

179 15.5 12.4 18.6





#73

Carbazole

Concen: 49.182 ng

RT: 11.639 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

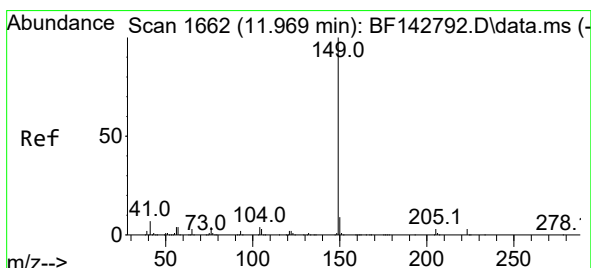
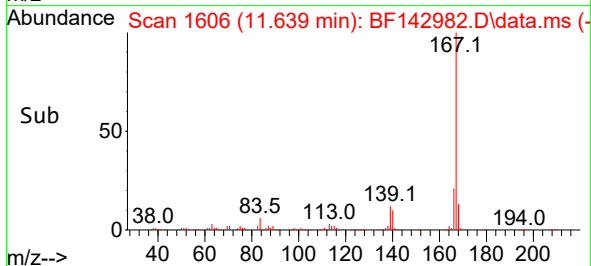
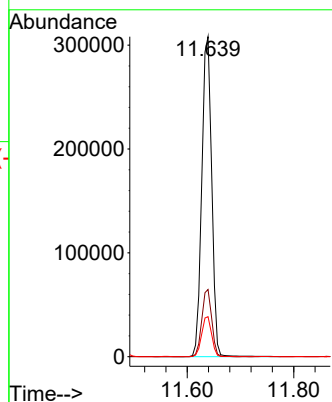
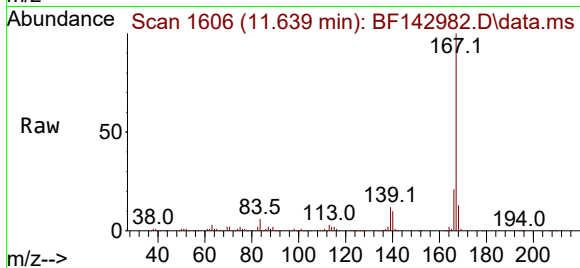
Tgt Ion:167 Resp: 398188

Ion Ratio Lower Upper

167 100

166 21.0 17.0 25.4

139 12.5 10.2 15.2



#74

Di-n-butylphthalate

Concen: 59.411 ng

RT: 11.963 min Scan# 1661

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

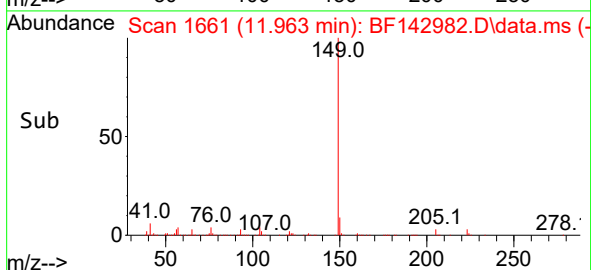
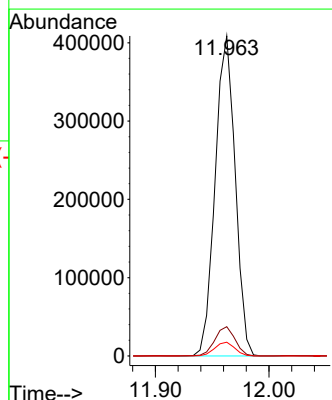
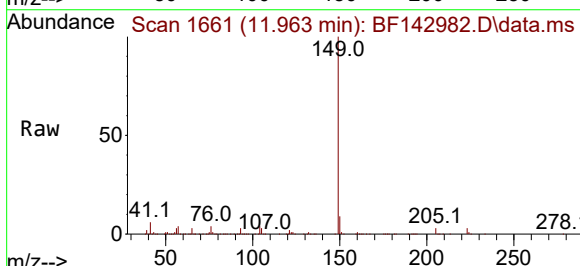
Tgt Ion:149 Resp: 501082

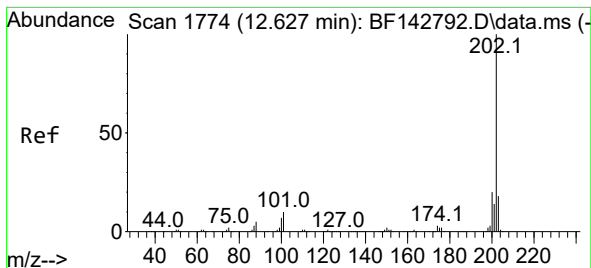
Ion Ratio Lower Upper

149 100

150 9.1 7.4 11.0

104 4.3 3.5 5.3





#75

Fluoranthene

Concen: 82.465 ng

RT: 12.622 min Scan# 1774

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

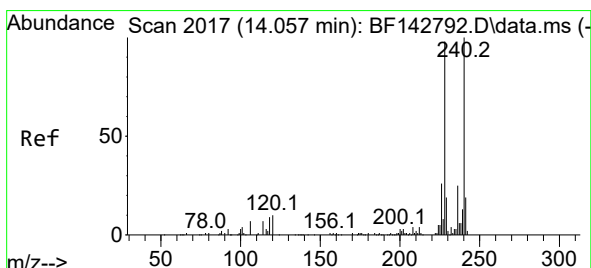
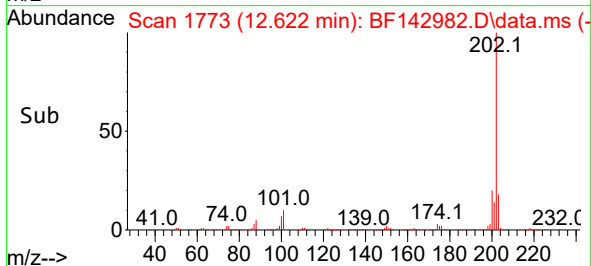
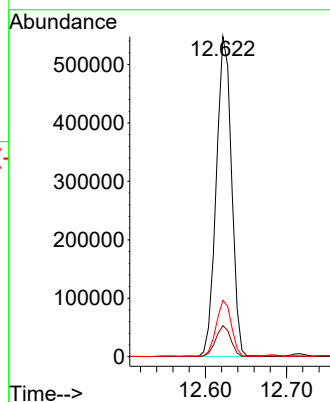
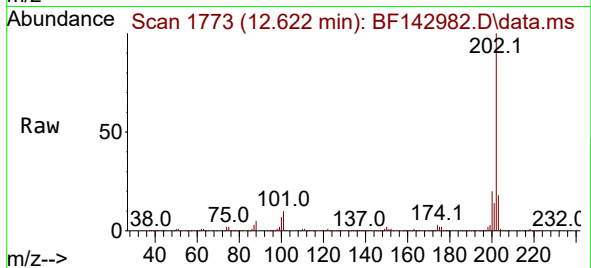
Tgt Ion:202 Resp: 715937

Ion Ratio Lower Upper

202 100

101 9.7 0.0 29.7

203 17.6 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

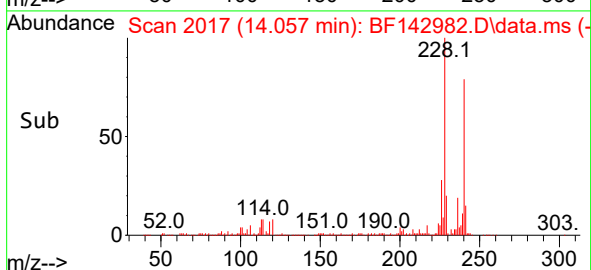
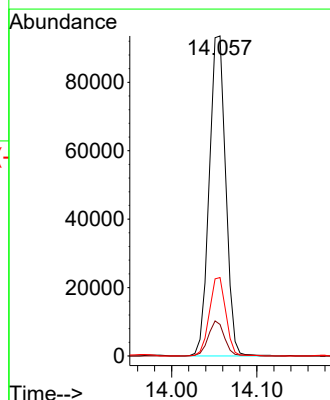
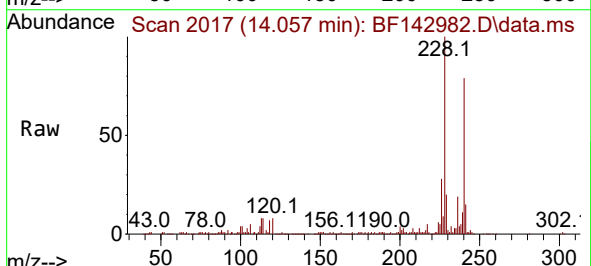
Tgt Ion:240 Resp: 125535

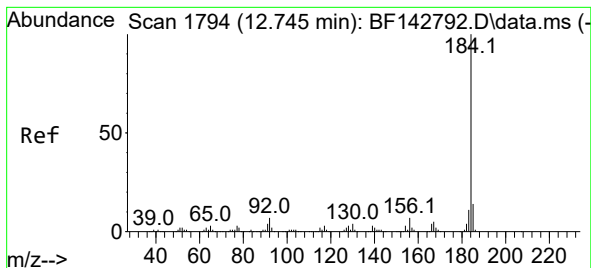
Ion Ratio Lower Upper

240 100

120 9.8 8.2 12.2

236 24.5 19.8 29.8





#77

Benzidine

Concen: 60.921 ng

RT: 12.745 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

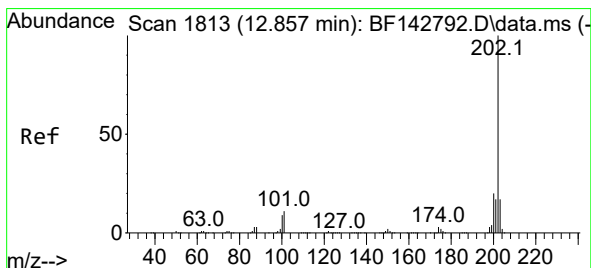
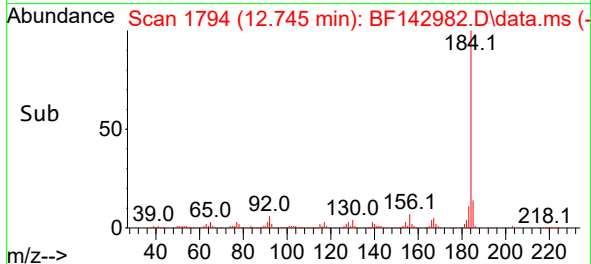
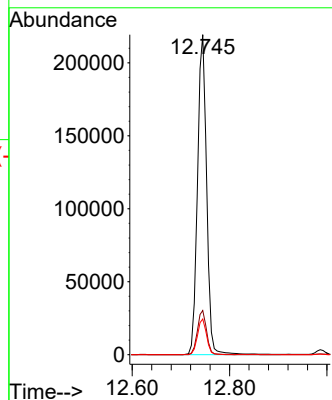
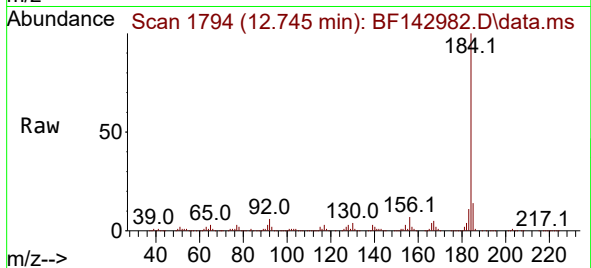
Tgt Ion:184 Resp: 287333

Ion Ratio Lower Upper

184 100

185 13.8 11.5 17.3

183 11.2 9.0 13.4



#78

Pyrene

Concen: 57.559 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

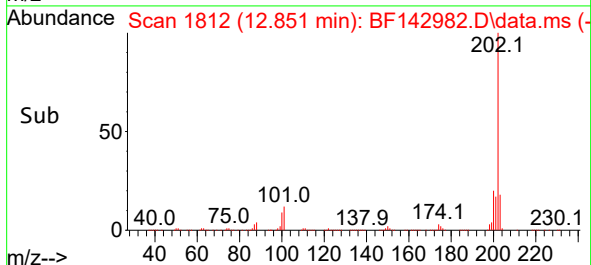
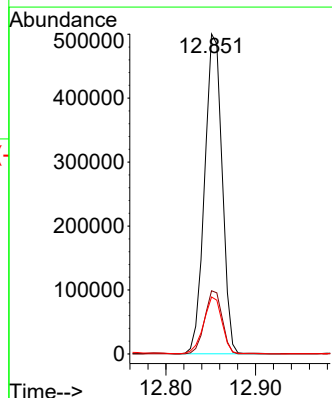
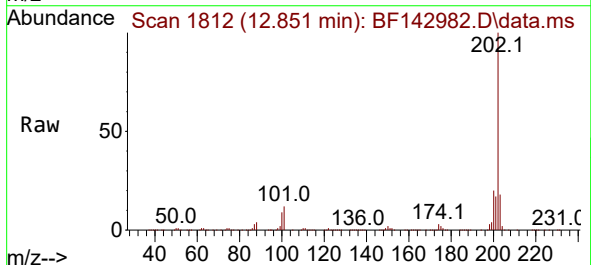
Tgt Ion:202 Resp: 677295

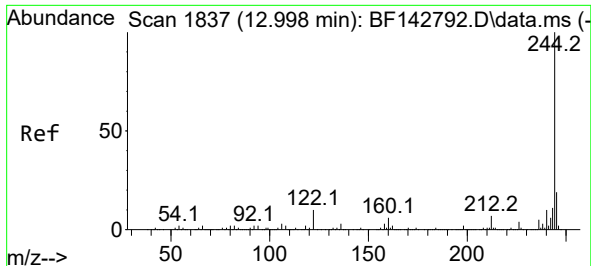
Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

203 17.8 13.8 20.6

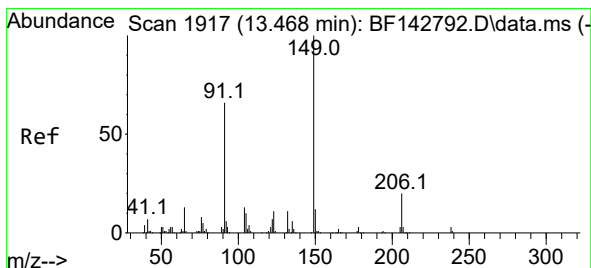
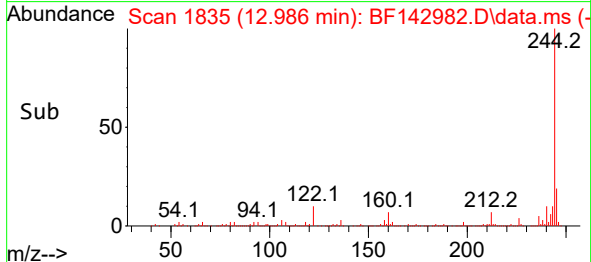
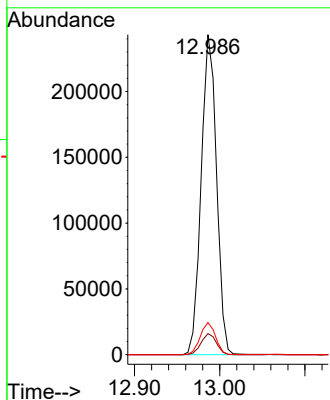
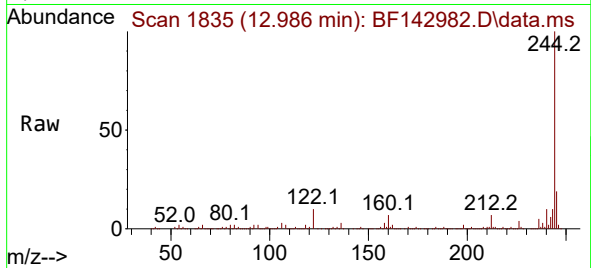




#79
 Terphenyl-d14
 Concen: 33.455 ng
 RT: 12.986 min Scan# 1835
 Delta R.T. -0.012 min
 Lab File: BF142982.D
 Acq: 02 Jul 2025 20:52

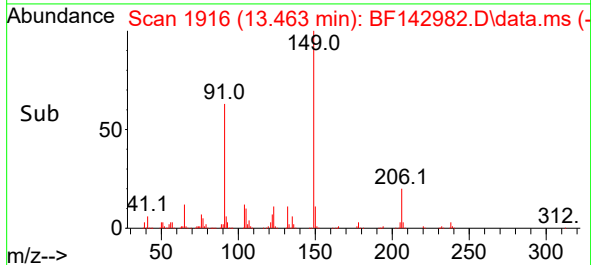
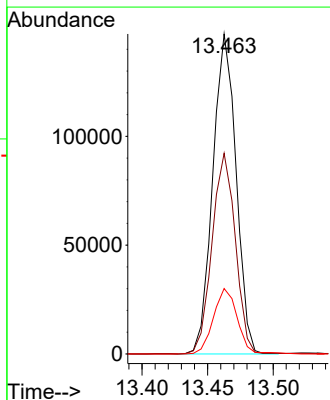
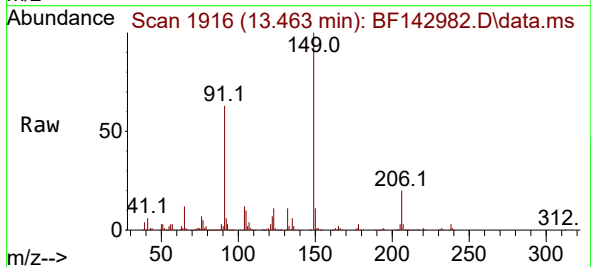
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMS

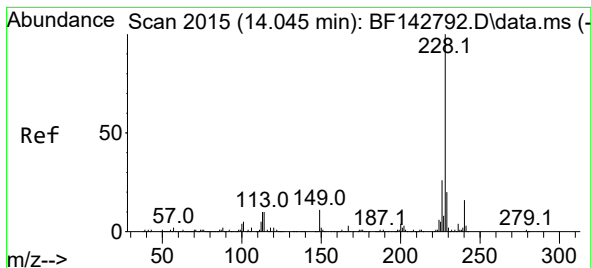
Tgt Ion:244 Resp: 303952
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.0
 122 10.0 8.2 12.2



#80
 Butylbenzylphthalate
 Concen: 53.209 ng
 RT: 13.463 min Scan# 1916
 Delta R.T. -0.006 min
 Lab File: BF142982.D
 Acq: 02 Jul 2025 20:52

Tgt Ion:149 Resp: 181617
 Ion Ratio Lower Upper
 149 100
 91 62.7 52.9 79.3
 206 20.5 16.3 24.5





#81

Benzo(a)anthracene

Concen: 60.225 ng

RT: 14.045 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

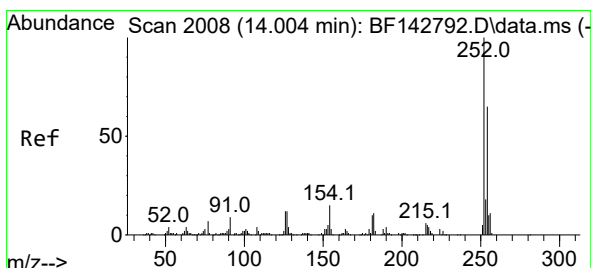
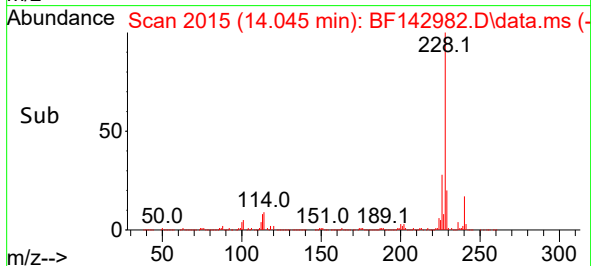
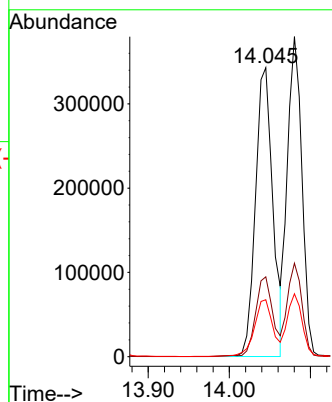
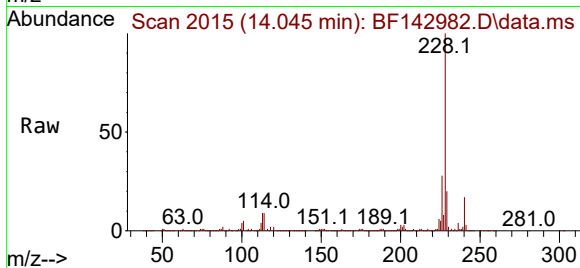
Tgt Ion:228 Resp: 510028

Ion Ratio Lower Upper

228 100

226 27.6 21.2 31.8

229 19.7 15.6 23.4



#82

3,3'-Dichlorobenzidine

Concen: 29.346 ng

RT: 14.004 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

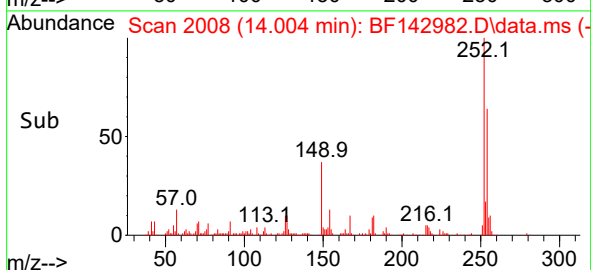
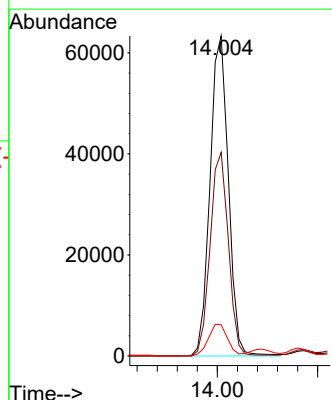
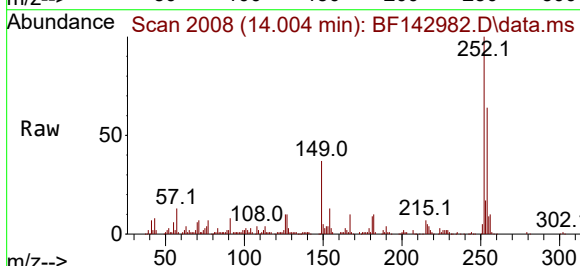
Tgt Ion:252 Resp: 80610

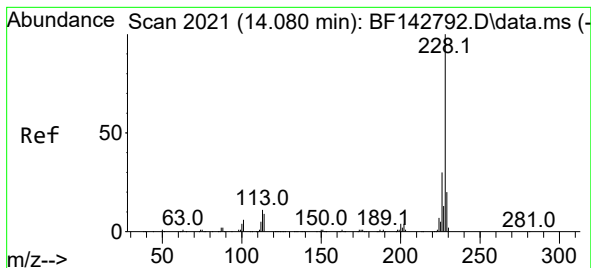
Ion Ratio Lower Upper

252 100

254 63.6 51.7 77.5

126 9.8 9.4 14.2





#83

Chrysene

Concen: 62.248 ng

RT: 14.080 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

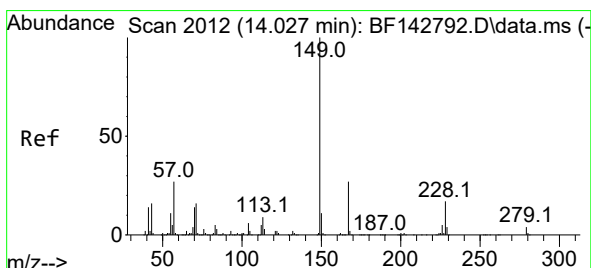
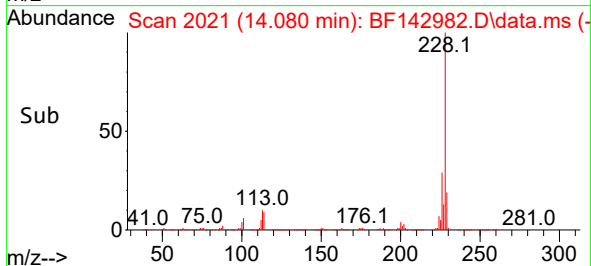
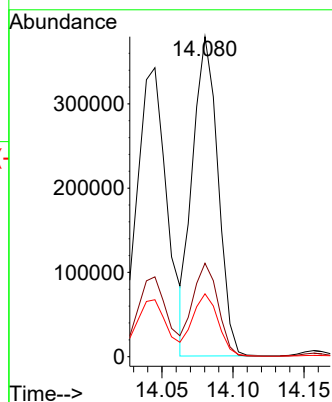
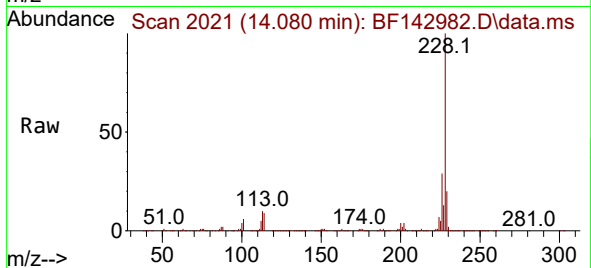
Tgt Ion:228 Resp: 470396

Ion Ratio Lower Upper

228 100

226 29.2 23.7 35.5

229 19.7 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 51.288 ng

RT: 14.021 min Scan# 2011

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

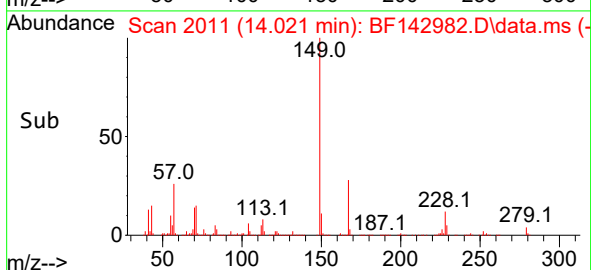
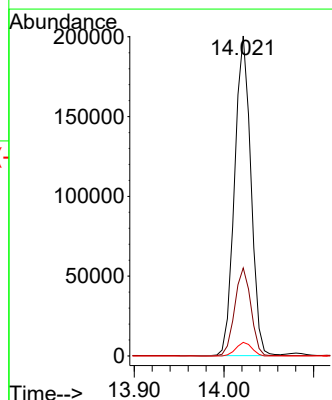
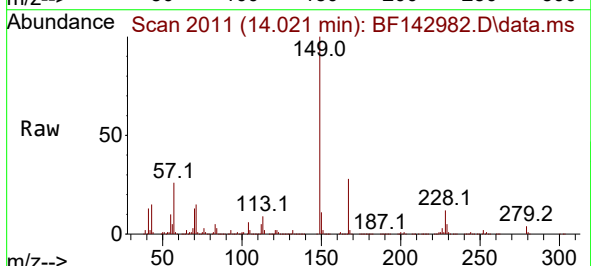
Tgt Ion:149 Resp: 251873

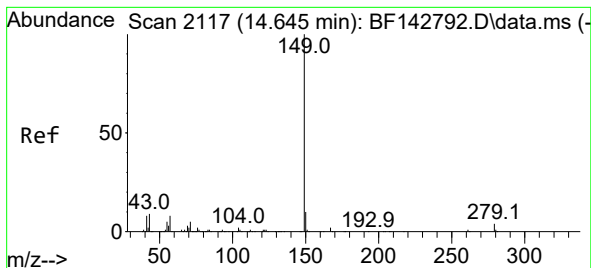
Ion Ratio Lower Upper

149 100

167 27.5 21.4 32.0

279 4.2 3.0 4.6





#85

Di-n-octyl phthalate

Concen: 45.526 ng

RT: 14.633 min Scan# 2115

Delta R.T. -0.012 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

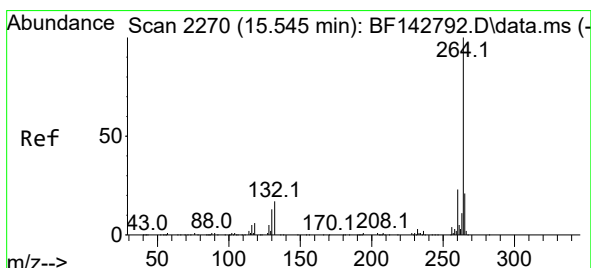
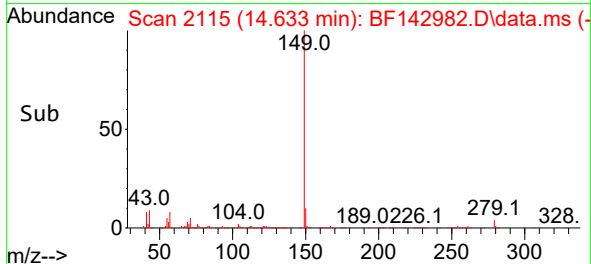
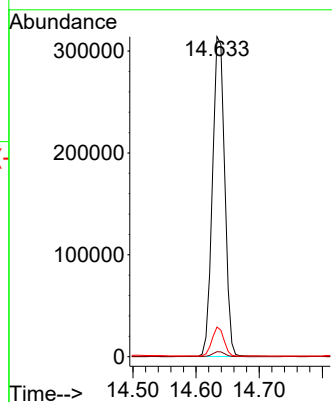
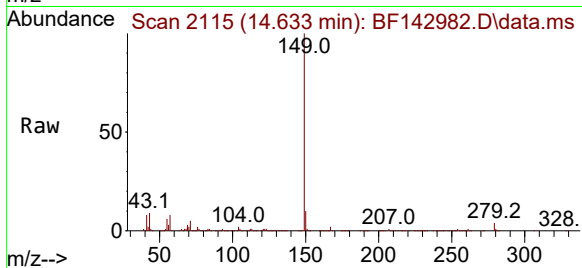
Tgt Ion:149 Resp: 421576

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

43 8.7 7.6 11.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

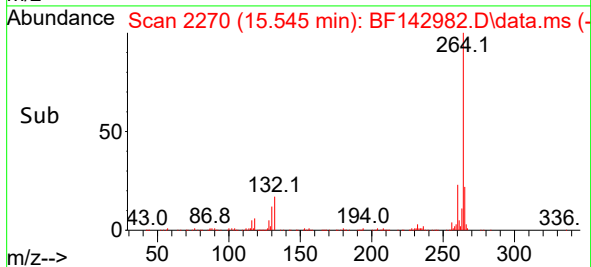
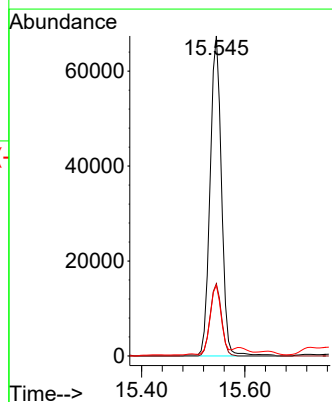
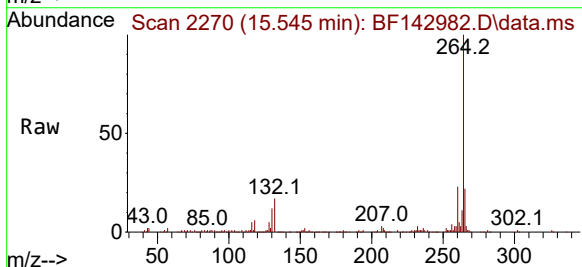
Tgt Ion:264 Resp: 103117

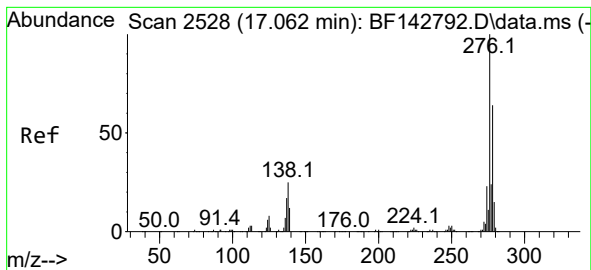
Ion Ratio Lower Upper

264 100

260 22.6 18.1 27.1

265 22.1 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 35.685 ng

RT: 17.057 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

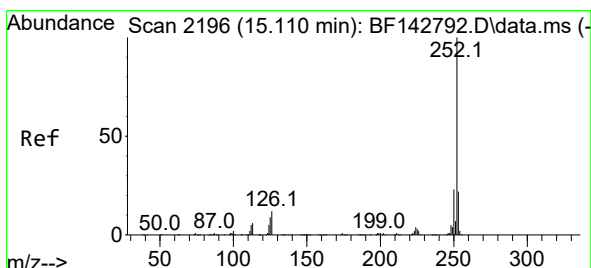
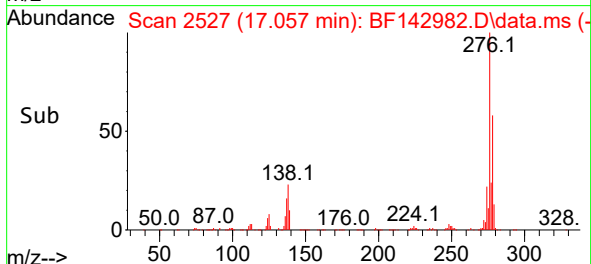
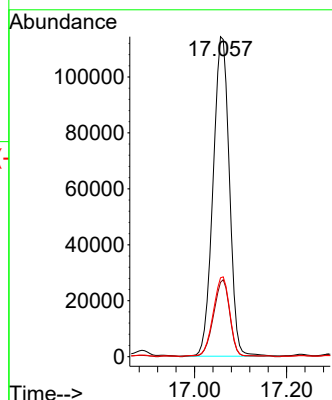
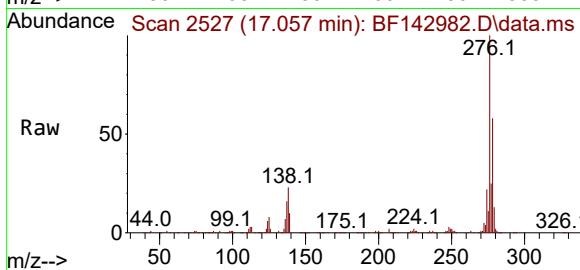
Tgt Ion:276 Resp: 280284

Ion Ratio Lower Upper

276 100

138 24.0 20.2 30.4

277 25.0 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 72.886 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

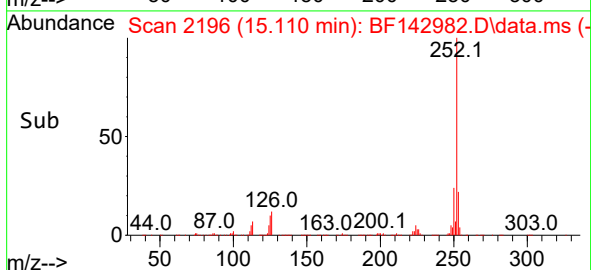
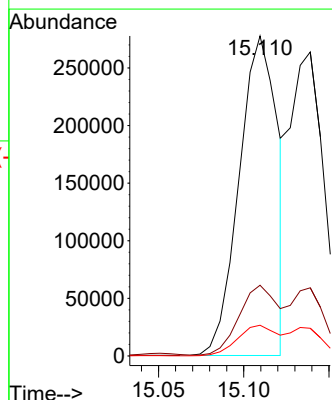
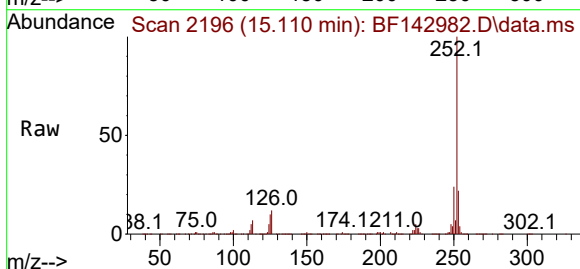
Tgt Ion:252 Resp: 434897

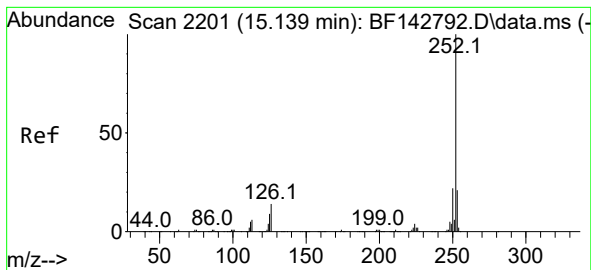
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 9.6 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 65.078 ng m

RT: 15.139 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMS

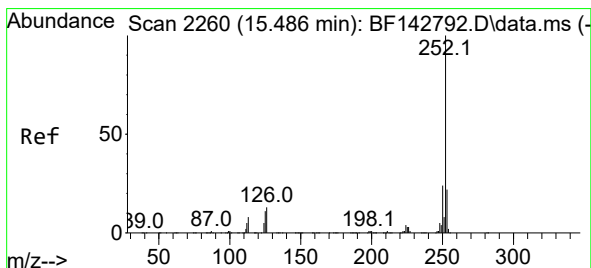
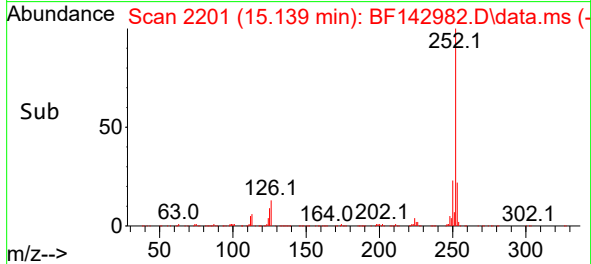
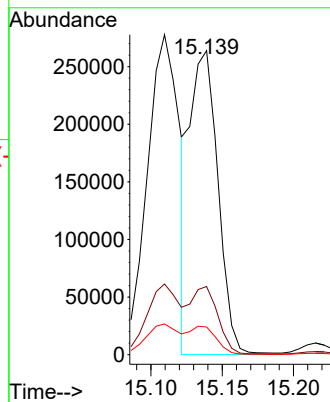
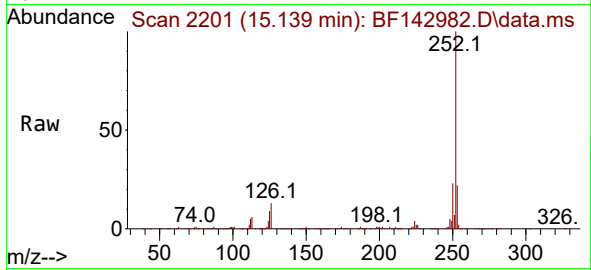
Tgt Ion:252 Resp: 363291

Ion Ratio Lower Upper

252 100

253 22.4 17.2 25.8

125 9.1 7.4 11.2



#90

Benzo(a)pyrene

Concen: 58.500 ng

RT: 15.480 min Scan# 2259

Delta R.T. -0.006 min

Lab File: BF142982.D

Acq: 02 Jul 2025 20:52

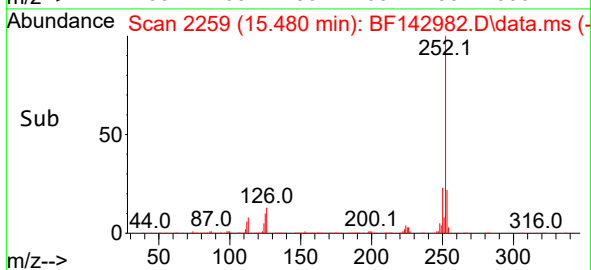
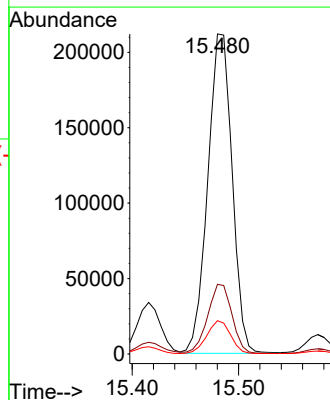
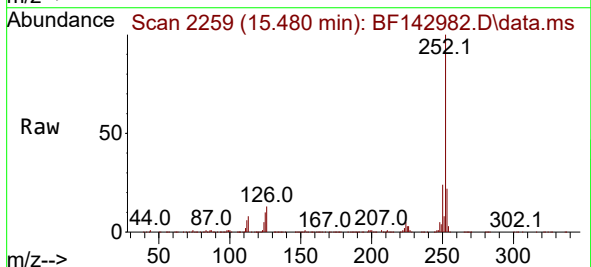
Tgt Ion:252 Resp: 337212

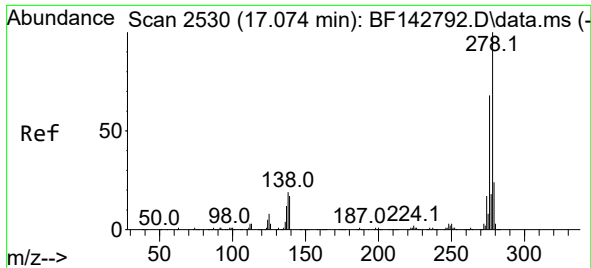
Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

125 10.4 8.6 12.8

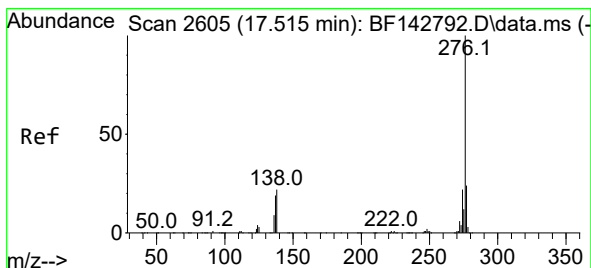
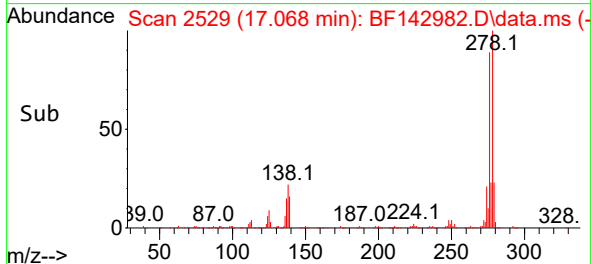
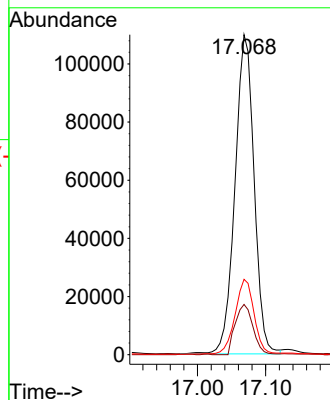
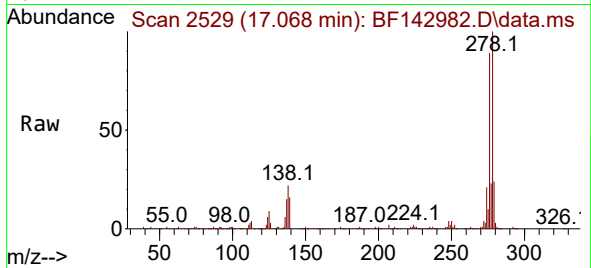




#91
Dibenzo(a,h)anthracene
Concen: 33.568 ng
RT: 17.068 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMS

Tgt Ion:278 Resp: 214223
Ion Ratio Lower Upper
278 100
139 15.7 13.5 20.3
279 23.6 18.8 28.2



#92
Benzo(g,h,i)perylene
Concen: 33.772 ng
RT: 17.515 min Scan# 2605
Delta R.T. 0.000 min
Lab File: BF142982.D
Acq: 02 Jul 2025 20:52

Tgt Ion:276 Resp: 214912
Ion Ratio Lower Upper
276 100
277 23.5 18.8 28.2
138 21.4 17.6 26.4

