

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012822\
 Data File : BF126735.D
 Acq On : 28 Jan 2022 23:48
 Operator : CG/JU
 Sample : N1310-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

Quant Time: Jan 29 02:31:43 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 27 03:09:40 2022
 Response via : Initial Calibration

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

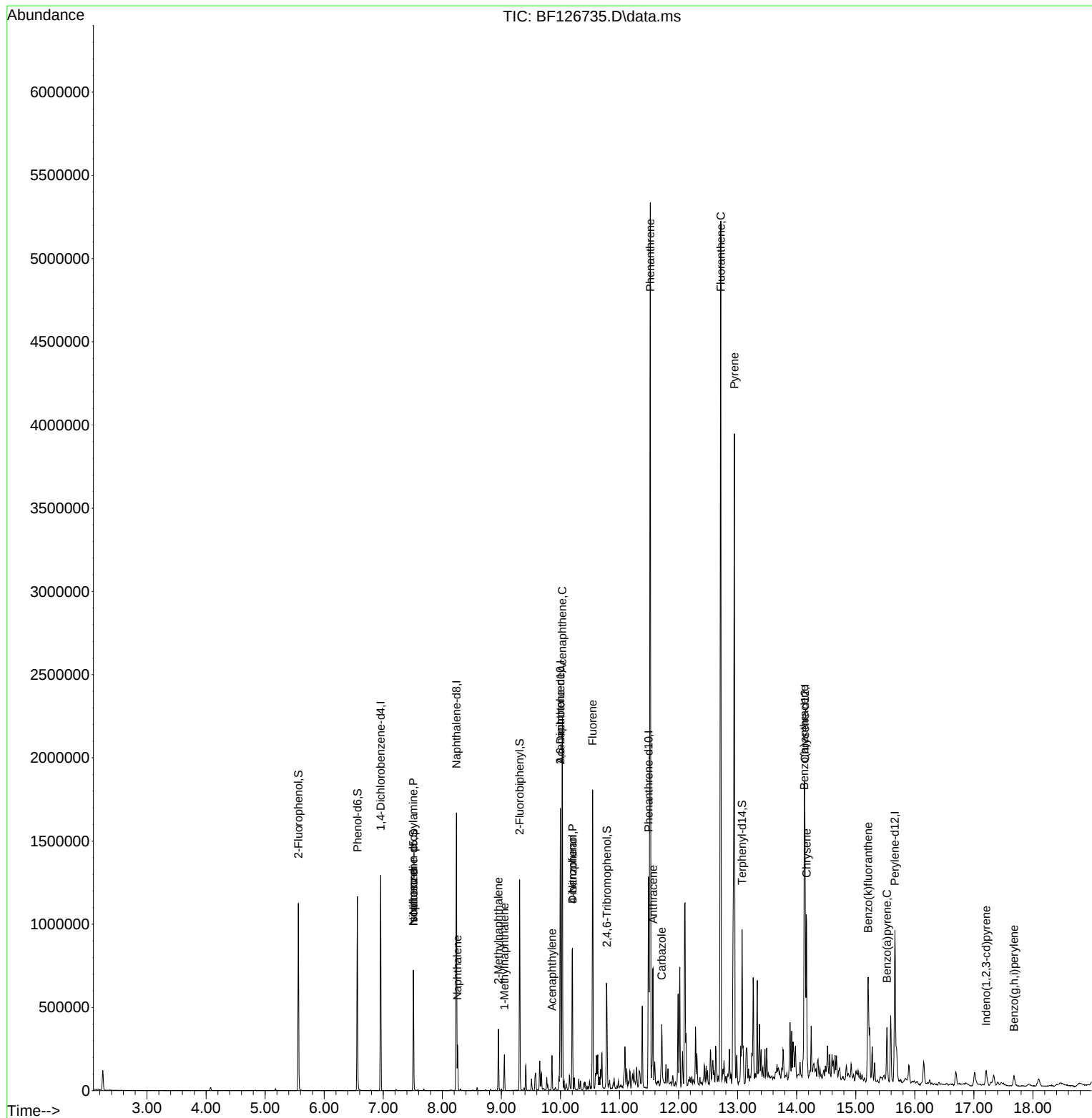
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.957	152	171594	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	626714	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	303554	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	441869	20.000	ng	0.00
76) Chrysene-d12	14.139	240	380305	20.000	ng	# 0.00
86) Perylene-d12	15.662	264	408733	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	271203	20.798	ng	0.00
7) Phenol-d6	6.563	99	359575	19.847	ng	-0.01
23) Nitrobenzene-d5	7.510	82	232984	14.551	ng	-0.01
42) 2,4,6-Tribromophenol	10.786	330	42194	14.853	ng	0.00
45) 2-Fluorobiphenyl	9.310	172	313799	15.832	ng	0.00
79) Terphenyl-d14	13.074	244	265279	11.700	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.563	77	696	Below Cal	#	3
19) n-Nitroso-di-n-propyla...	7.510	70	29352	2.220	ng	# 72
25) Isophorone	7.510	82	230612	7.427	ng	# 69
31) Naphthalene	8.257	128	102133	3.017	ng	99
37) 2-Methylnaphthalene	8.951	142	81514	3.871	ng	97
38) 1-Methylnaphthalene	9.051	142	48691	2.386	ng	98
49) Acenaphthylene	9.857	152	62140	2.205	ng	99
51) 2,6-Dinitrotoluene	9.998	165	42641	11.462	ng	# 21
52) Acenaphthene	10.033	154	452170	26.242	ng	98
55) Dibenzofuran	10.204	168	314389	12.141	ng	95
56) 4-Nitrophenol	10.204	139	112762	33.292	ng	# 7
58) Fluorene	10.545	166	434216	22.210	ng	99
71) Phenanthrene	11.522	178	2017897	79.934	ng	98
72) Anthracene	11.569	178	267898	10.577	ng	98
73) Carbazole	11.716	167	115075	4.839	ng	98
75) Fluoranthene	12.716	202	2071901	83.093	ng	98
78) Pyrene	12.945	202	1584522	51.522	ng	98
81) Benzo(a)anthracene	14.127	228	527549	20.409	ng	99
83) Chrysene	14.168	228	399641	16.068	ng	97
87) Indeno(1,2,3-cd)pyrene	17.209	276	59105	2.340	ng	# 91
89) Benzo(k)fluoranthene	15.210	252	476934	17.921	ng	96
90) Benzo(a)pyrene	15.527	252	147098	6.670	ng	97
92) Benzo(g,h,i)perylene	17.680	276	49818	2.428	ng	94

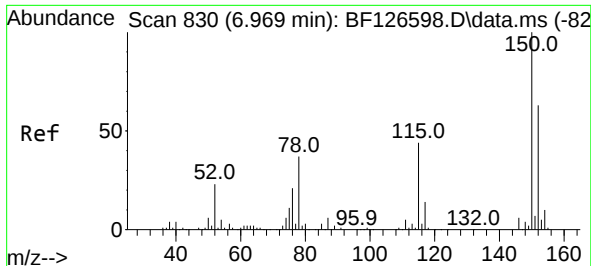
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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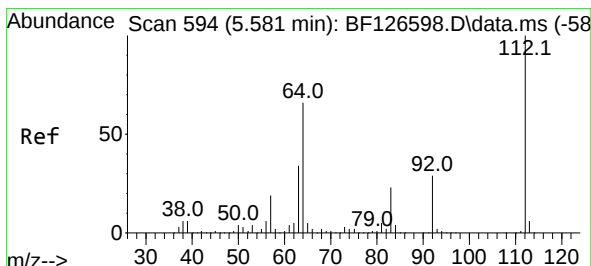
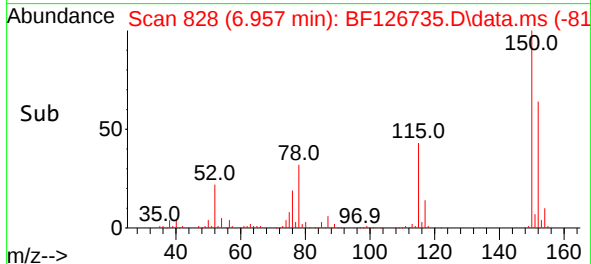
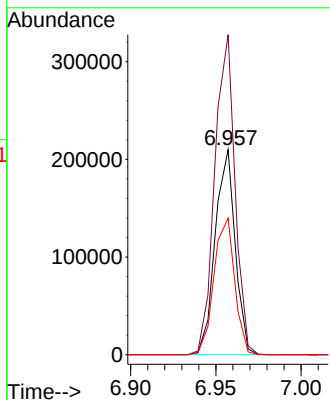
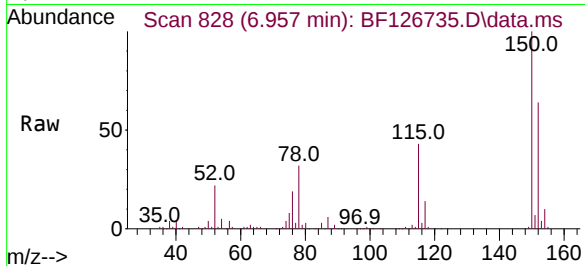




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.957 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

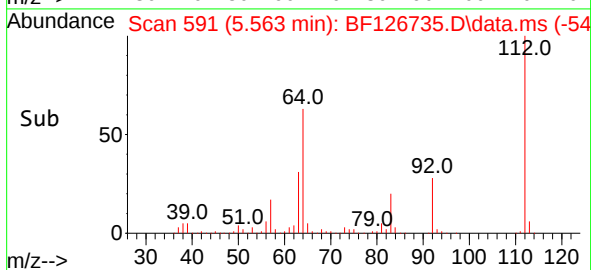
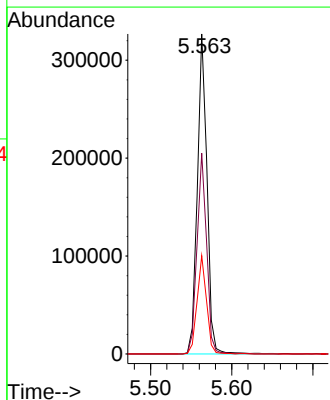
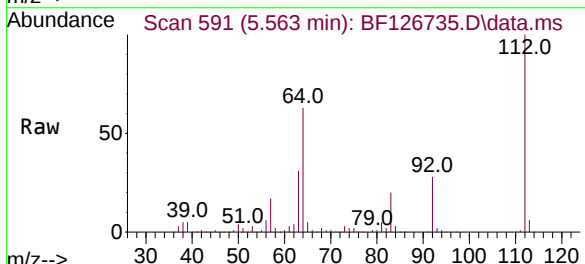
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BNA_F
ClientSampleId :
SOIL-PILE

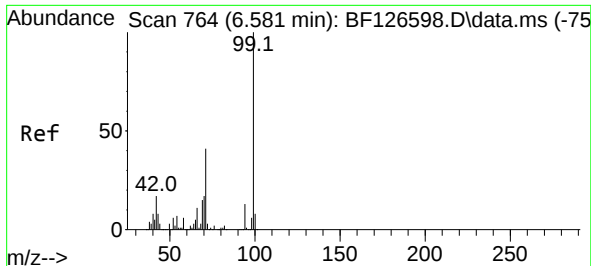
Tgt Ion:152 Resp: 171594
Ion Ratio Lower Upper
152 100
150 156.1 128.1 192.1
115 66.6 56.7 85.1



#5
2-Fluorophenol
Concen: 20.798 ng
RT: 5.563 min Scan# 591
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion:112 Resp: 271203
Ion Ratio Lower Upper
112 100
64 62.8 49.5 74.3
63 30.7 23.9 35.9

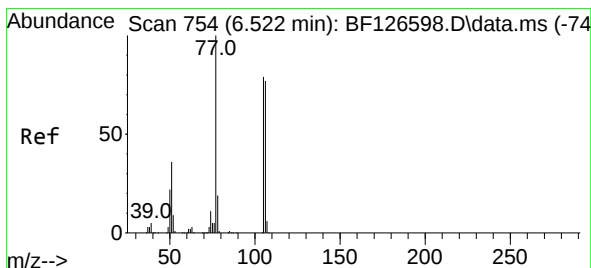
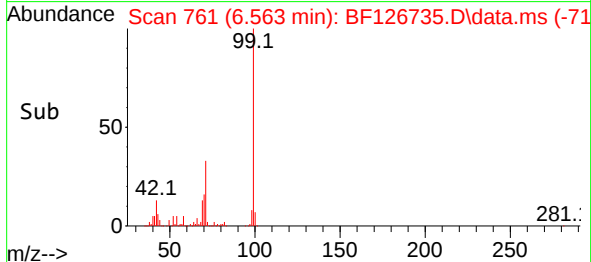
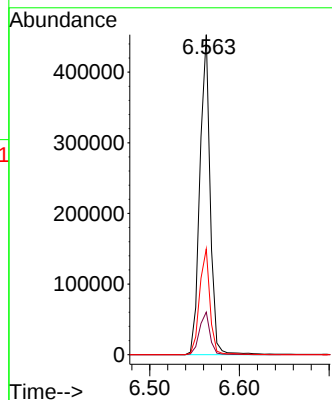
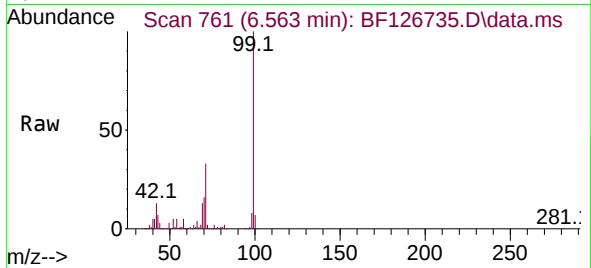




#7
Phenol-d6
Concen: 19.847 ng
RT: 6.563 min Scan# 761
Delta R.T. -0.012 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

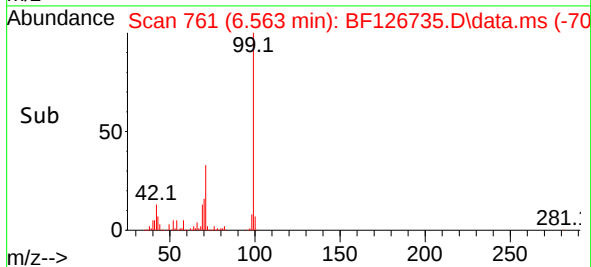
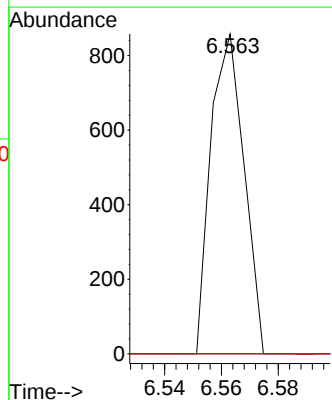
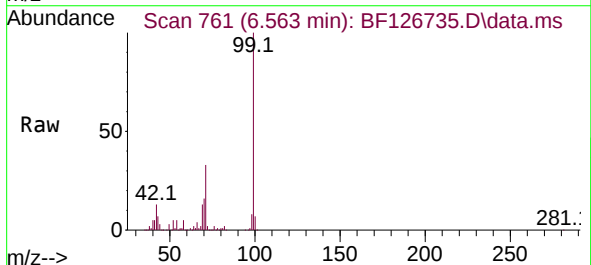
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

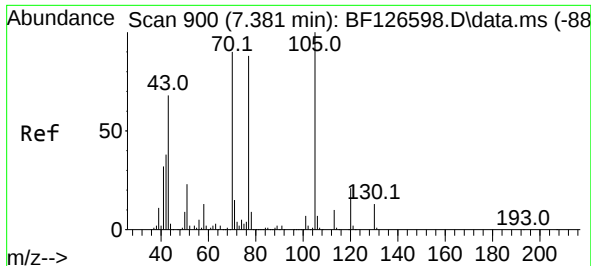
Tgt Ion: 99 Resp: 359575
Ion Ratio Lower Upper
99 100
42 13.3 14.2 21.4#
71 33.1 24.3 36.5



#9
Benzaldehyde
Concen: Below Cal
RT: 6.563 min Scan# 761
Delta R.T. 0.053 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion: 77 Resp: 696
Ion Ratio Lower Upper
77 100
105 0.0 74.9 114.9#
106 0.0 72.4 112.4#

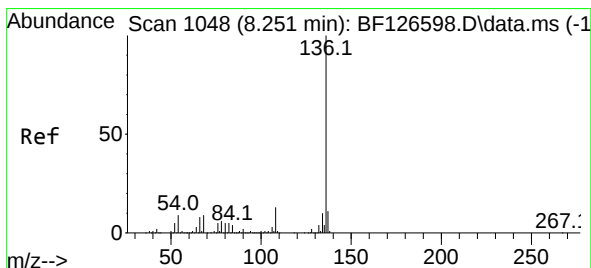
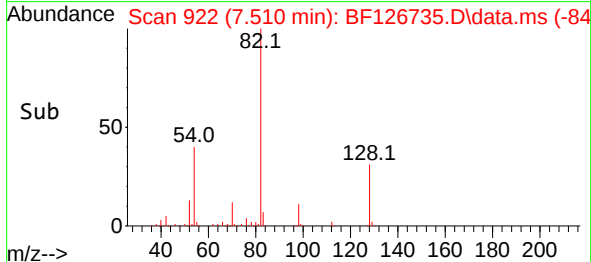
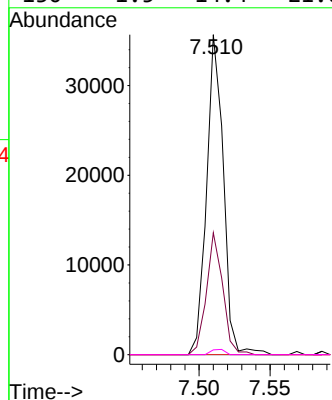
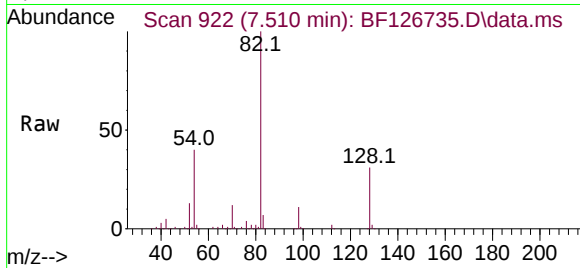




#19
n-Nitroso-di-n-propylamine
Concen: 2.220 ng
RT: 7.510 min Scan# 91
Delta R.T. 0.141 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

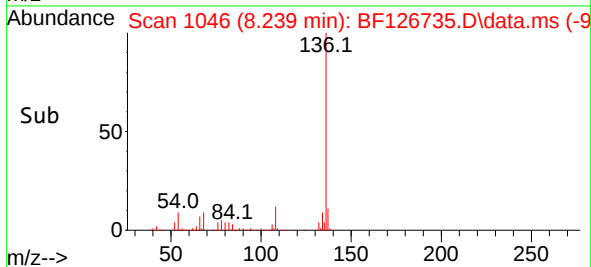
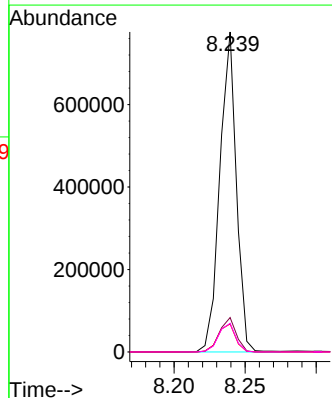
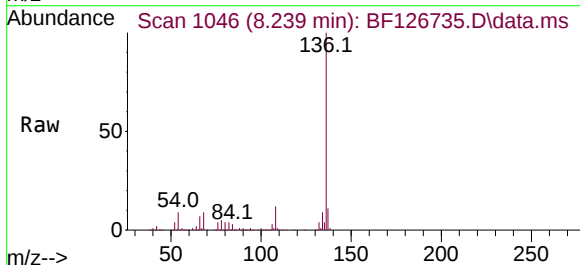
Instrument :
BNA_F
ClientSampleId :
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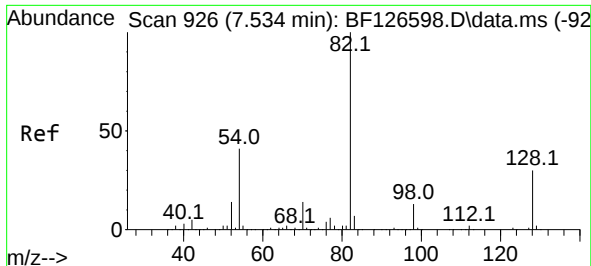
Tgt Ion: 70 Resp: 29352
Ion Ratio Lower Upper
70 100
42 38.1 45.8 68.8#
101 0.0 6.9 10.3#
130 1.5 14.4 21.6#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion: 136 Resp: 626714
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.8 7.8 11.6
68 9.0 6.3 9.5

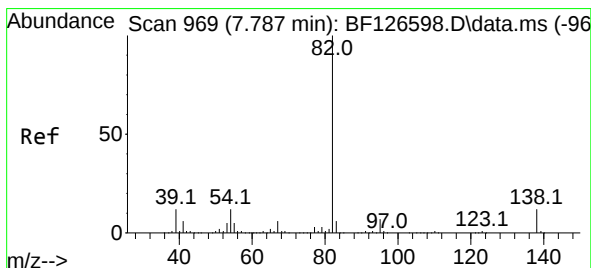
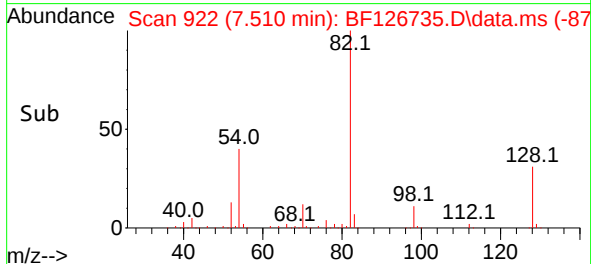
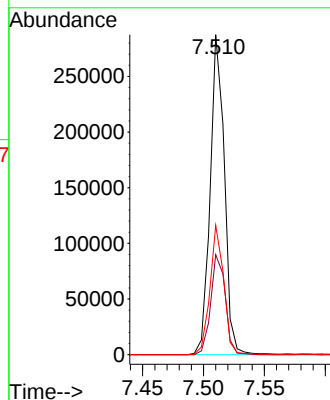
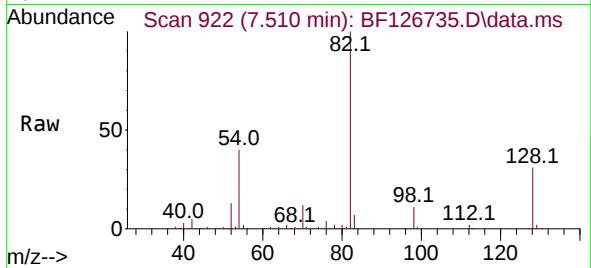




#23
Nitrobenzene-d5
Concen: 14.551 ng
RT: 7.510 min Scan# 91
Delta R.T. -0.012 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

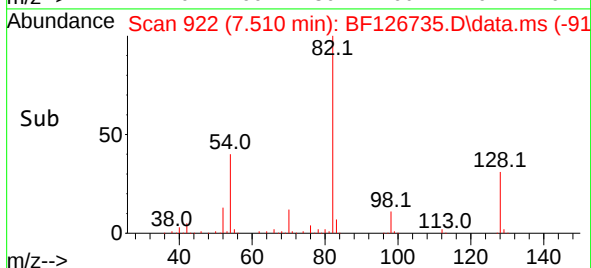
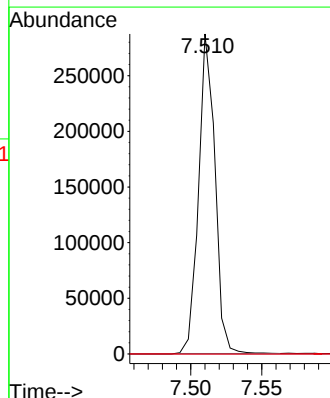
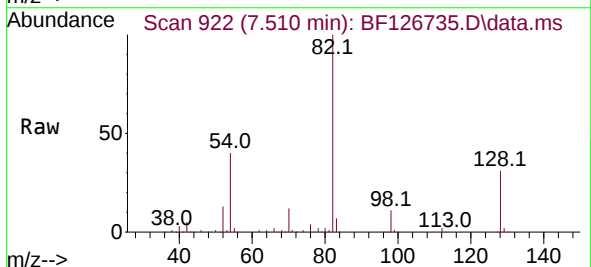
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

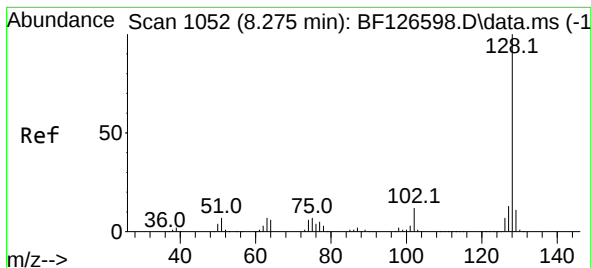
Tgt Ion: 82 Resp: 232984
Ion Ratio Lower Upper
82 100
128 31.2 32.7 49.1#
54 40.4 41.7 62.5#



#25
Isophorone
Concen: 7.427 ng
RT: 7.510 min Scan# 922
Delta R.T. -0.271 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion: 82 Resp: 230612
Ion Ratio Lower Upper
82 100
95 0.0 5.0 7.4#
138 0.0 12.3 18.5#





#31

Naphthalene

Concen: 3.017 ng

RT: 8.257 min Scan# 110

Delta R.T. -0.006 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

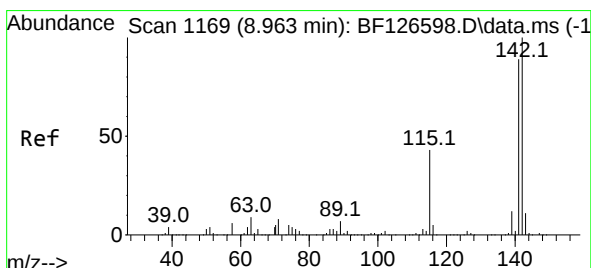
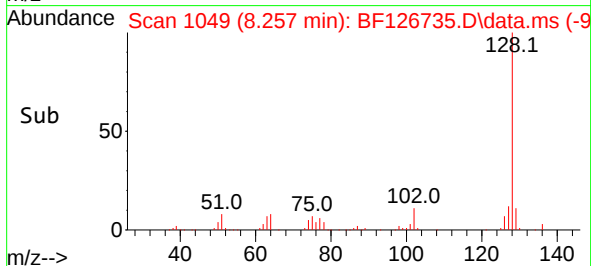
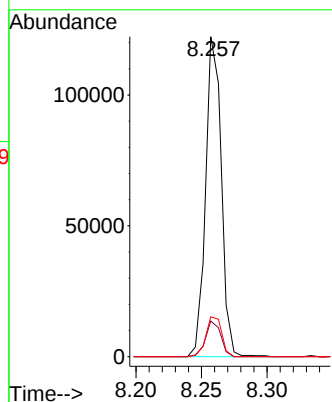
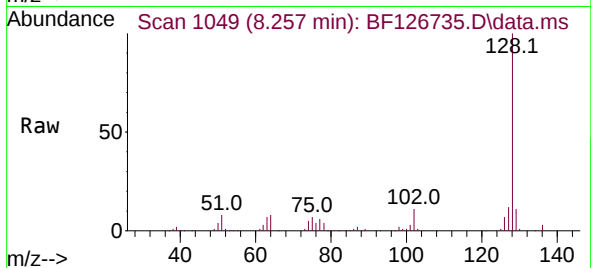
Tgt Ion:128 Resp: 102133

Ion Ratio Lower Upper

128 100

129 11.2 8.6 13.0

127 12.5 10.3 15.5



#37

2-Methylnaphthalene

Concen: 3.871 ng

RT: 8.951 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF126735.D

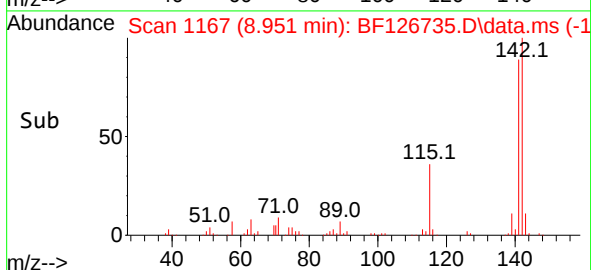
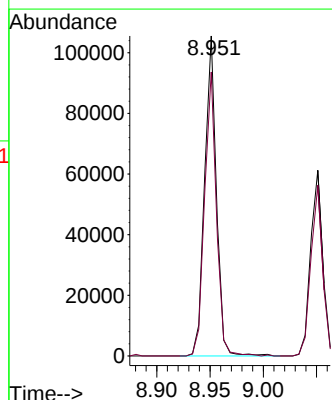
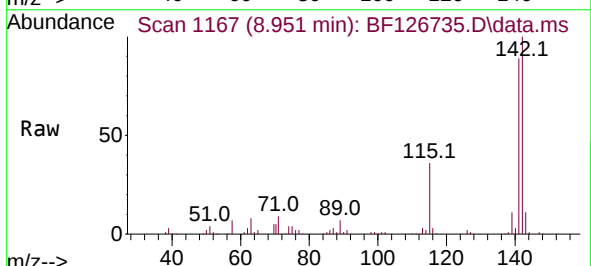
Acq: 28 Jan 2022 23:48

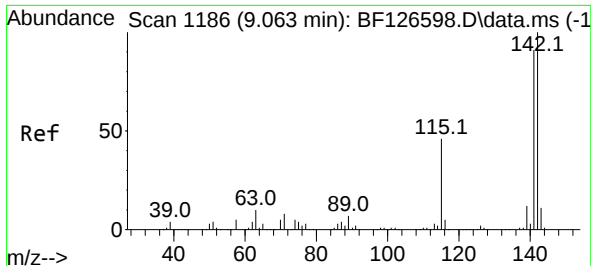
Tgt Ion:142 Resp: 81514

Ion Ratio Lower Upper

142 100

141 88.7 68.6 102.8

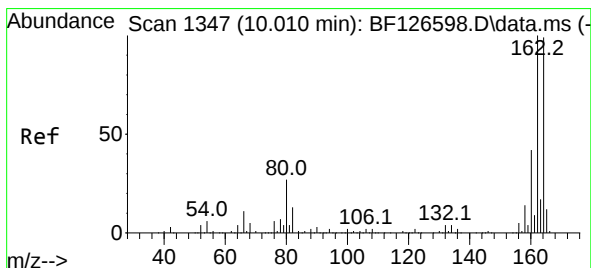
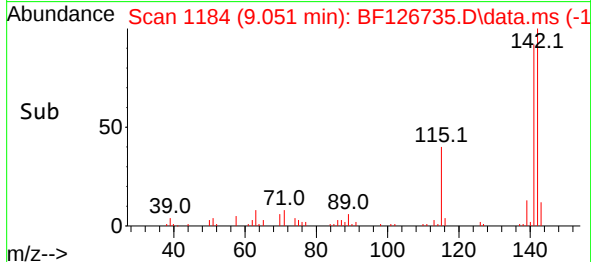
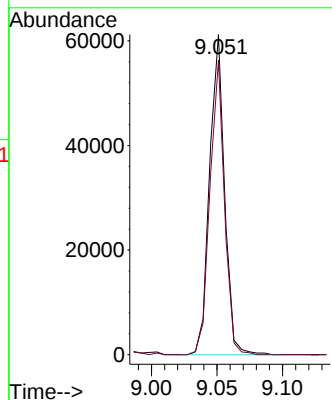
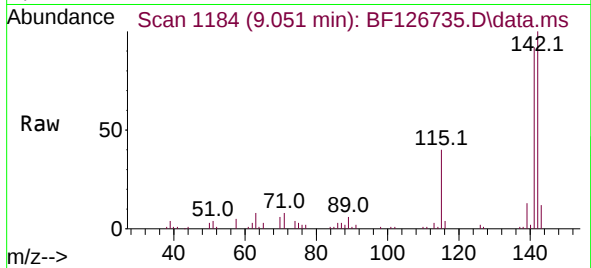




#38
1-Methylnaphthalene
Concen: 2.386 ng
RT: 9.051 min Scan# 1184
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

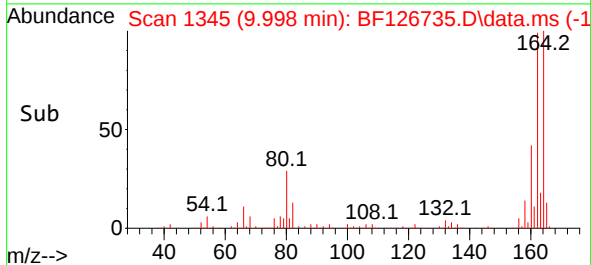
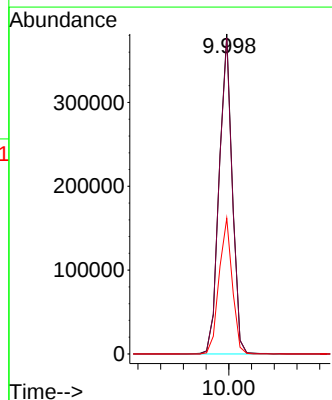
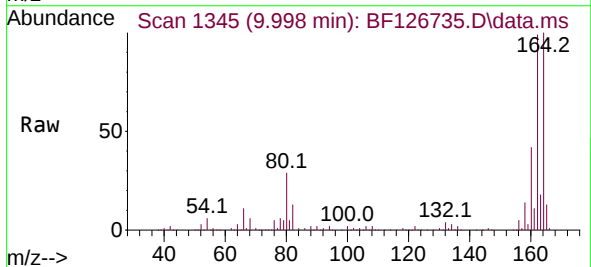
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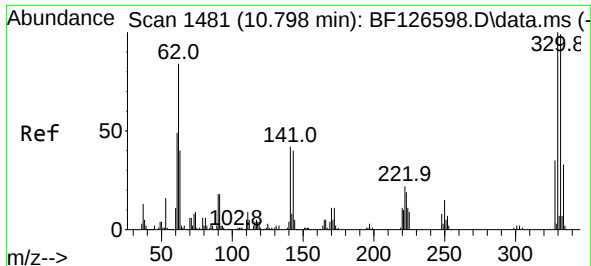
Tgt Ion:142 Resp: 48691
Ion Ratio Lower Upper
142 100
141 91.9 72.1 108.1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion:164 Resp: 303554
Ion Ratio Lower Upper
164 100
162 98.8 81.4 122.0
160 42.4 36.6 54.8

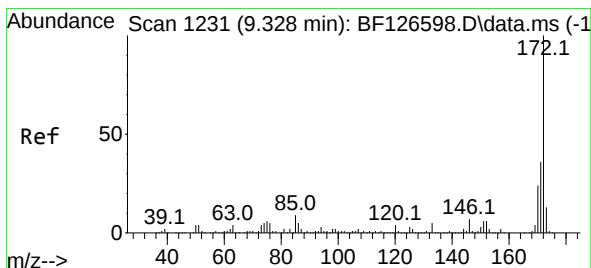
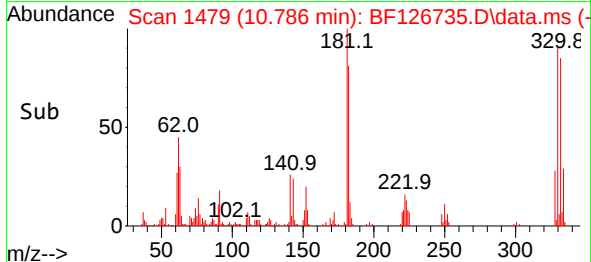
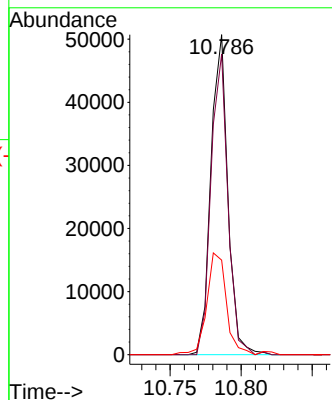
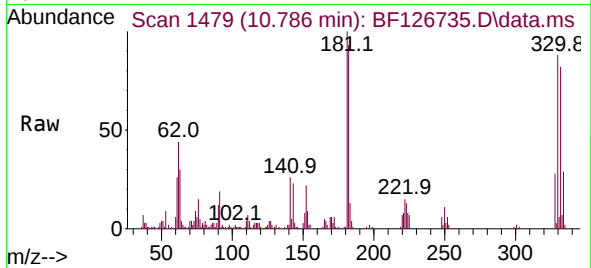




#42
2,4,6-Tribromophenol
Concen: 14.853 ng
RT: 10.786 min Scan# 1481
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

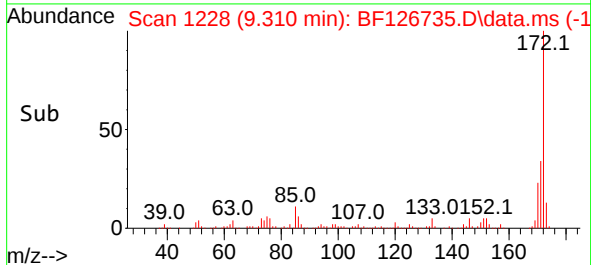
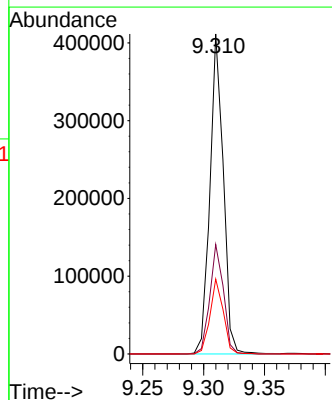
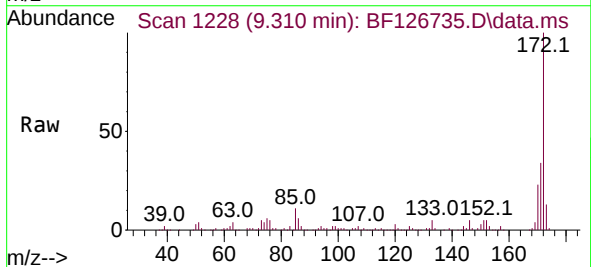
Instrument :
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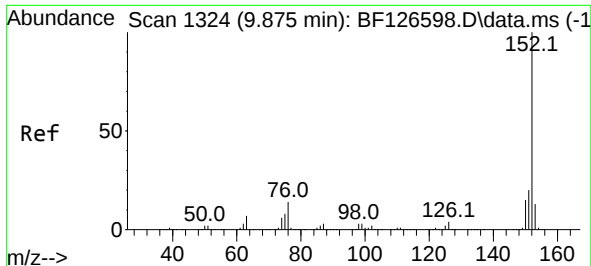
Tgt Ion: 330 Resp: 42194
Ion Ratio Lower Upper
330 100
332 93.8 76.0 114.0
141 36.6 30.1 45.1



#45
2-Fluorobiphenyl
Concen: 15.832 ng
RT: 9.310 min Scan# 1228
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion: 172 Resp: 313799
Ion Ratio Lower Upper
172 100
171 34.2 28.3 42.5
170 23.4 19.0 28.6





#49

Acenaphthylene

Concen: 2.205 ng

RT: 9.857 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

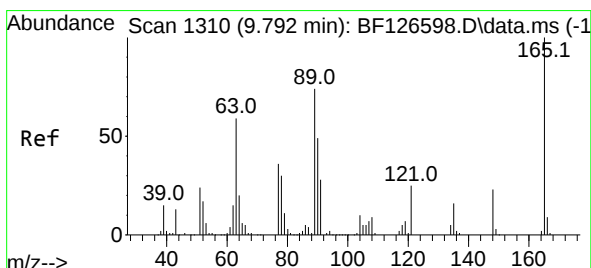
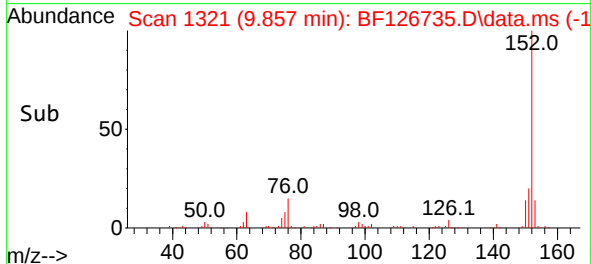
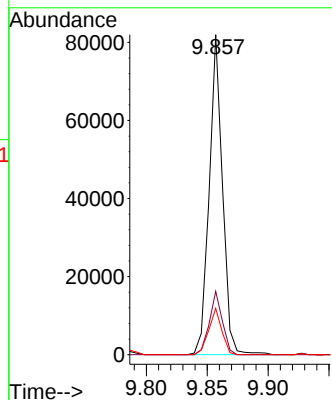
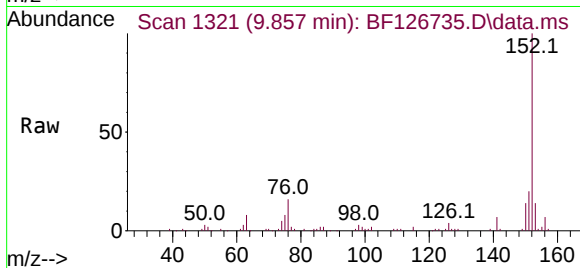
Tgt Ion:152 Resp: 62140

Ion Ratio Lower Upper

152 100

151 19.8 15.7 23.5

153 14.4 11.4 17.0



#51

2,6-Dinitrotoluene

Concen: 11.462 ng

RT: 9.998 min Scan# 1345

Delta R.T. 0.218 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

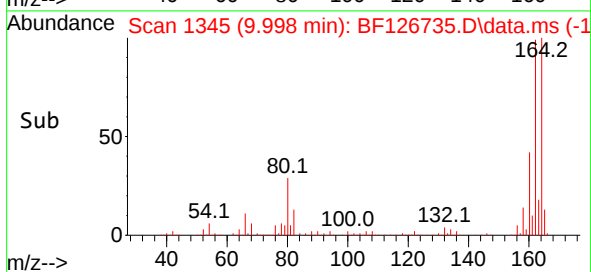
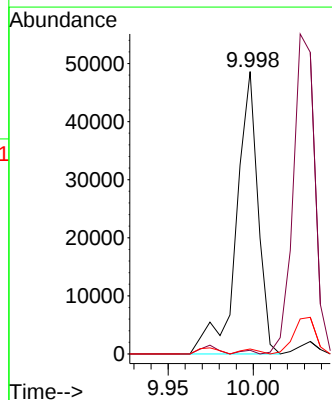
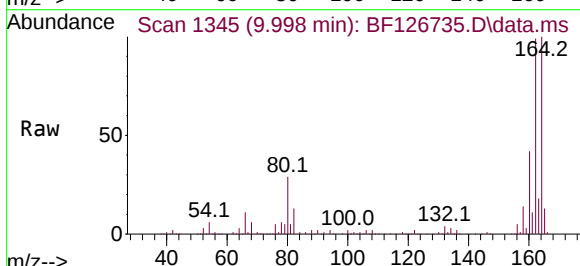
Tgt Ion:165 Resp: 42641

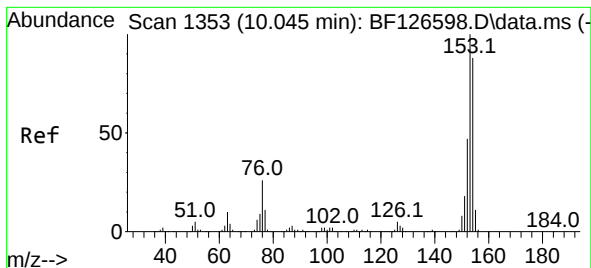
Ion Ratio Lower Upper

165 100

63 1.3 48.4 72.6#

89 1.7 50.5 75.7#





#52

Acenaphthene

Concen: 26.242 ng

RT: 10.033 min Scan# 1351

Delta R.T. 0.000 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

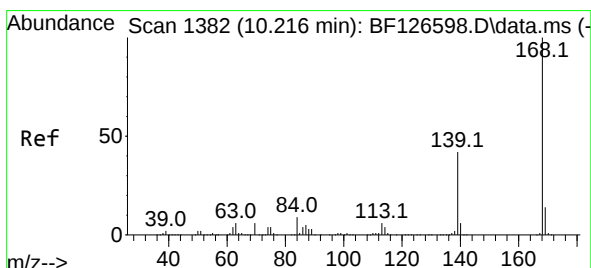
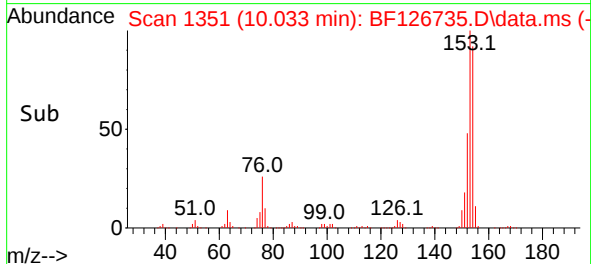
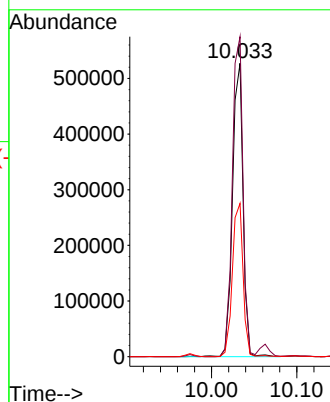
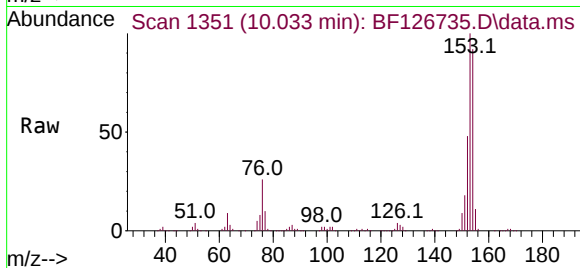
Tgt Ion:154 Resp: 452170

Ion Ratio Lower Upper

154 100

153 109.1 87.8 131.6

152 52.2 39.4 59.2



#55

Dibenzofuran

Concen: 12.141 ng

RT: 10.204 min Scan# 1380

Delta R.T. -0.006 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

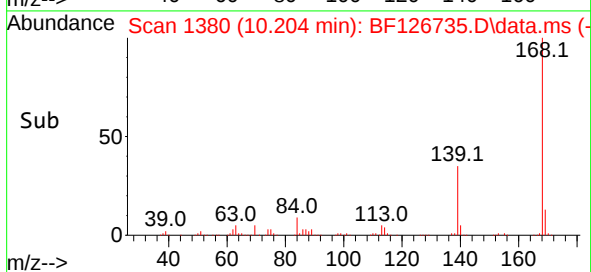
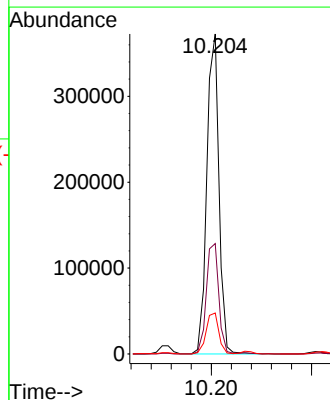
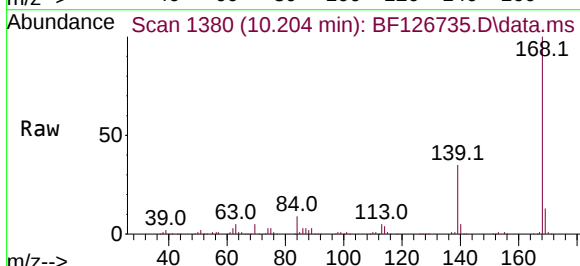
Tgt Ion:168 Resp: 314389

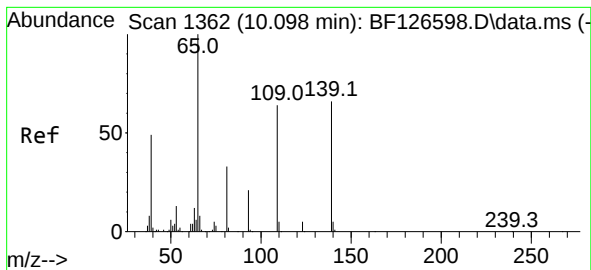
Ion Ratio Lower Upper

168 100

139 34.5 30.6 46.0

169 12.8 10.0 15.0

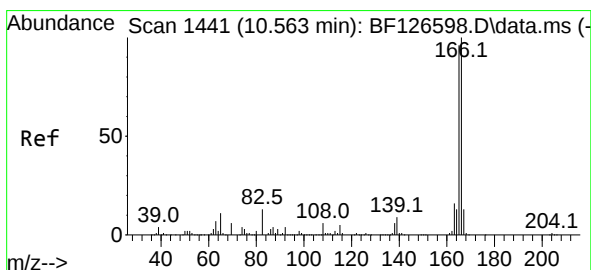
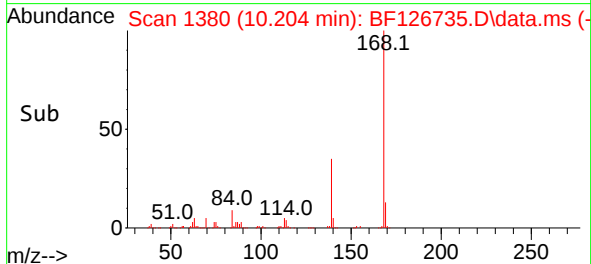
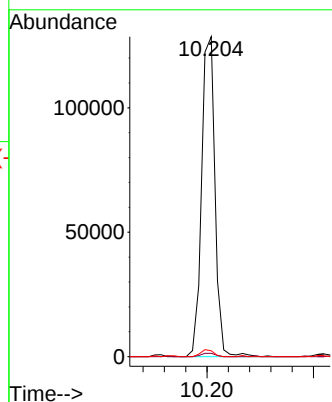
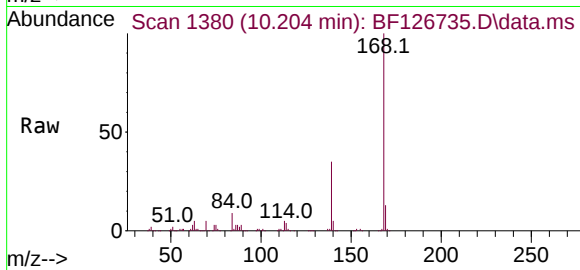




#56
4-Nitrophenol
Concen: 33.292 ng
RT: 10.204 min Scan# 11
Delta R.T. 0.106 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

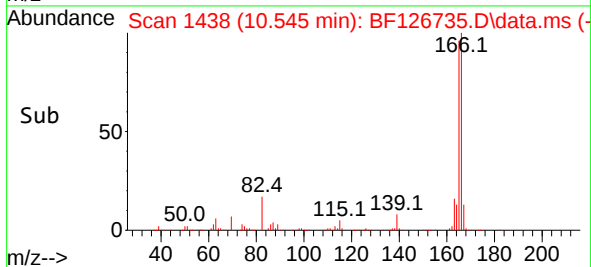
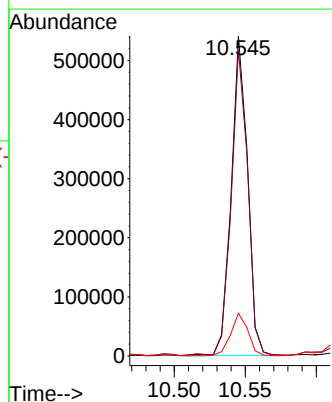
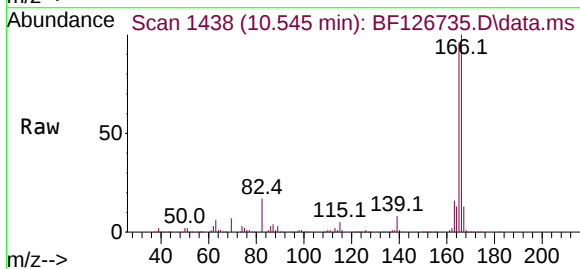
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

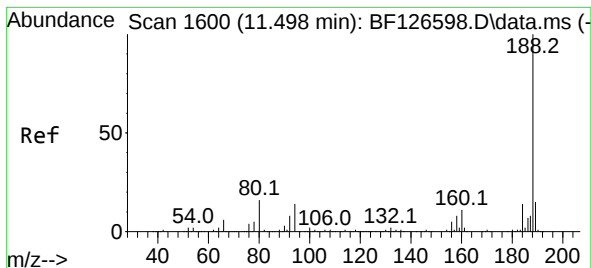
Tgt Ion:139 Resp: 112762
Ion Ratio Lower Upper
139 100
109 1.1 44.1 84.1#
65 1.8 85.5 125.5#



#58
Fluorene
Concen: 22.210 ng
RT: 10.545 min Scan# 1438
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion:166 Resp: 434216
Ion Ratio Lower Upper
166 100
165 95.7 77.7 116.5
167 13.4 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.492 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

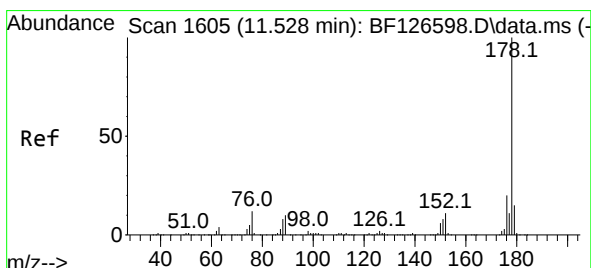
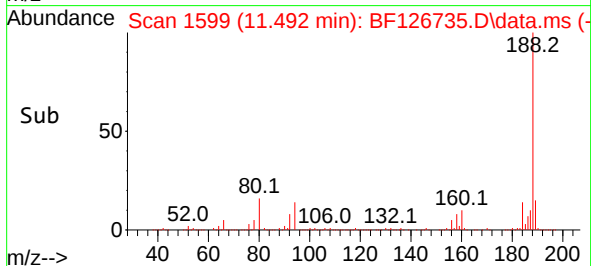
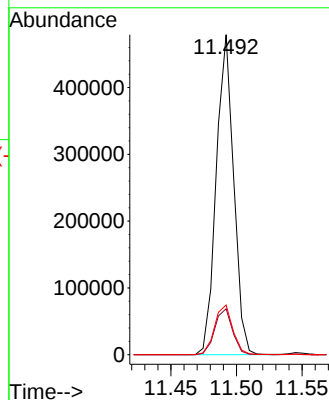
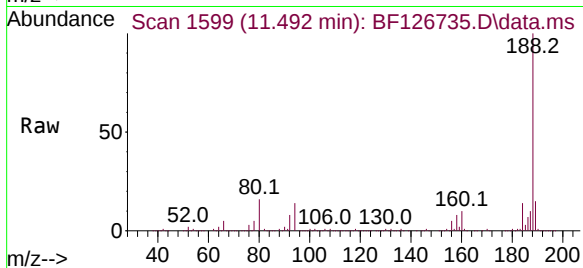
Tgt Ion:188 Resp: 441869

Ion Ratio Lower Upper

188 100

94 14.3 10.1 15.1

80 15.5 11.8 17.6



#71

Phenanthrene

Concen: 79.934 ng

RT: 11.522 min Scan# 1604

Delta R.T. 0.000 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

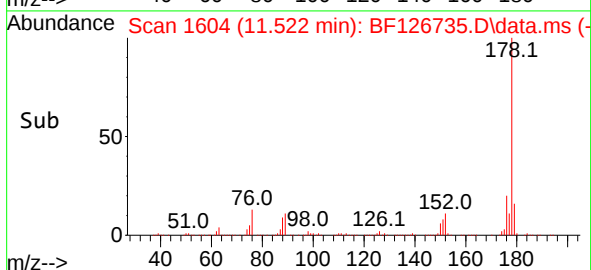
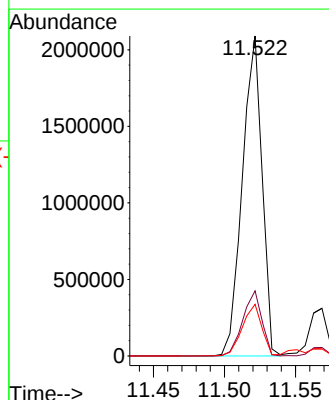
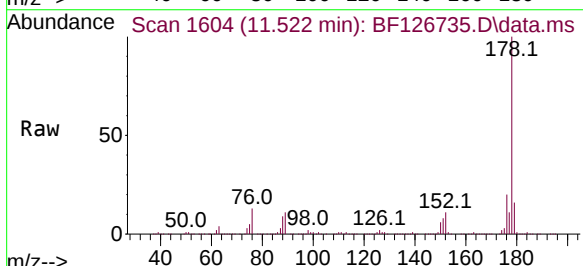
Tgt Ion:178 Resp: 2017897

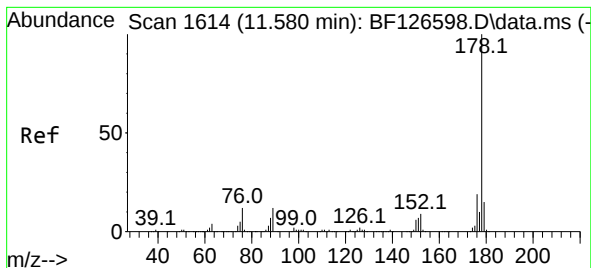
Ion Ratio Lower Upper

178 100

176 20.4 15.7 23.5

179 16.2 12.3 18.5





#72

Anthracene

Concen: 10.577 ng

RT: 11.569 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

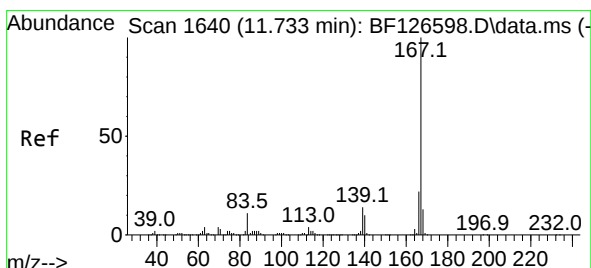
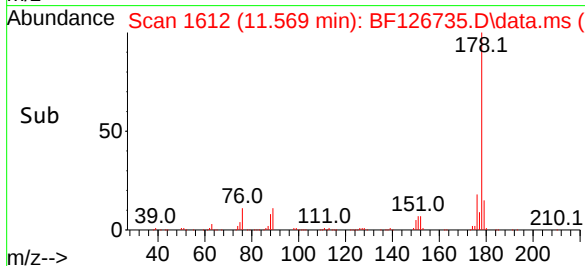
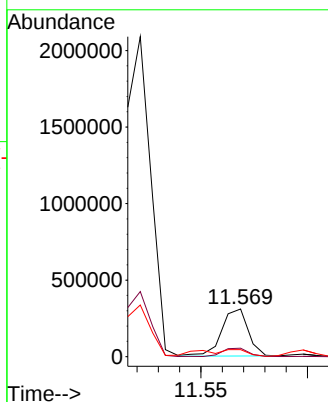
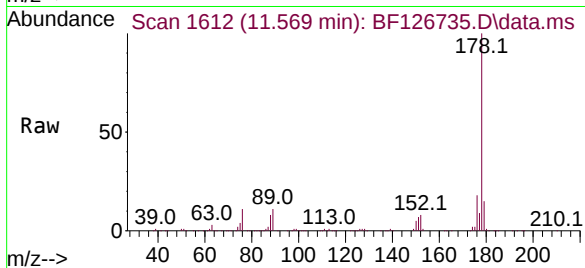
Tgt Ion:178 Resp: 267898

Ion Ratio Lower Upper

178 100

176 17.8 15.0 22.6

179 14.9 12.5 18.7



#73

Carbazole

Concen: 4.839 ng

RT: 11.716 min Scan# 1637

Delta R.T. -0.006 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

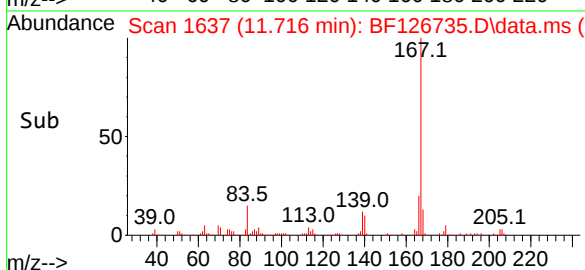
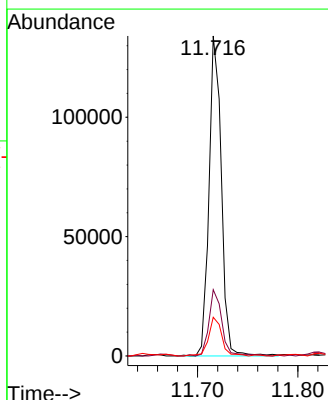
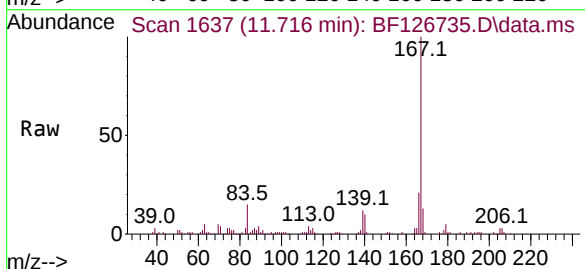
Tgt Ion:167 Resp: 115075

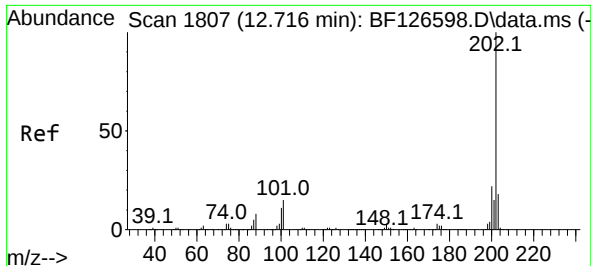
Ion Ratio Lower Upper

167 100

166 20.7 16.9 25.3

139 12.1 11.3 16.9

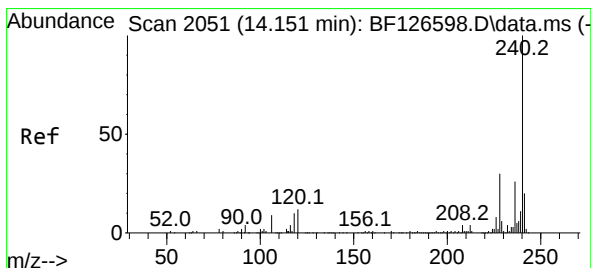
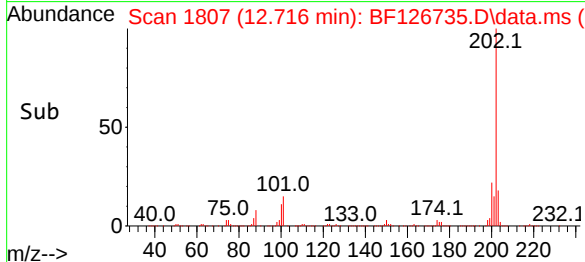
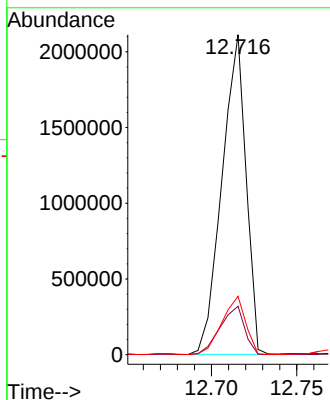
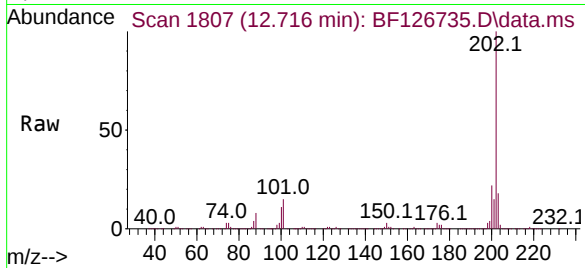




#75
Fluoranthene
Concen: 83.093 ng
RT: 12.716 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

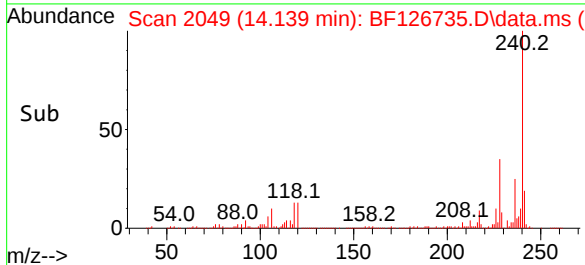
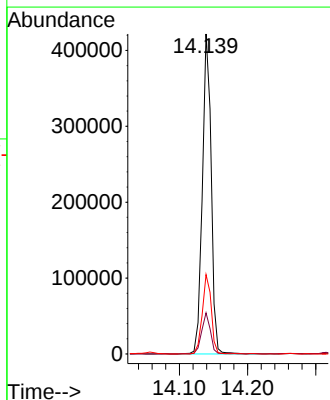
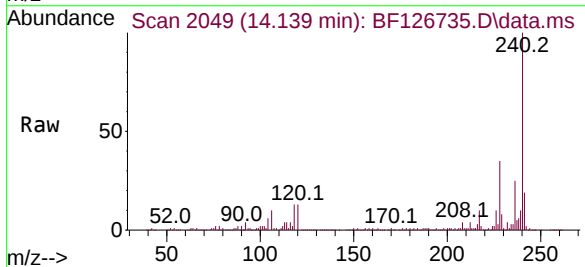
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

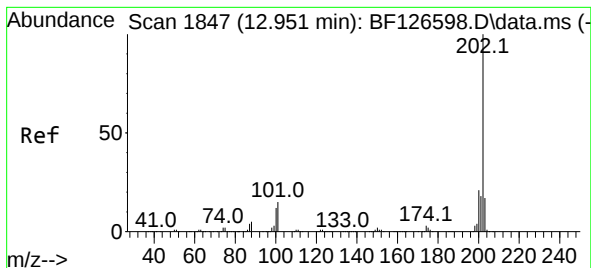
Tgt Ion:202 Resp: 2071901
Ion Ratio Lower Upper
202 100
101 15.2 0.0 35.7
203 18.3 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.139 min Scan# 2049
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion:240 Resp: 380305
Ion Ratio Lower Upper
240 100
120 12.8 14.4 21.6#
236 24.8 20.5 30.7





#78

Pyrene

Concen: 51.522 ng

RT: 12.945 min Scan# 1846

Delta R.T. 0.006 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

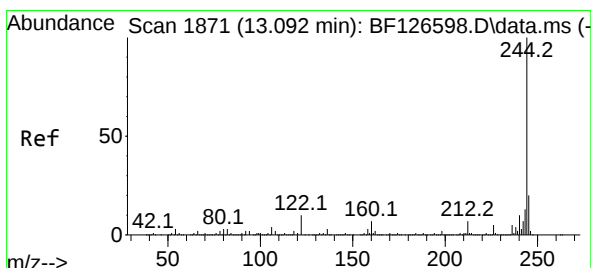
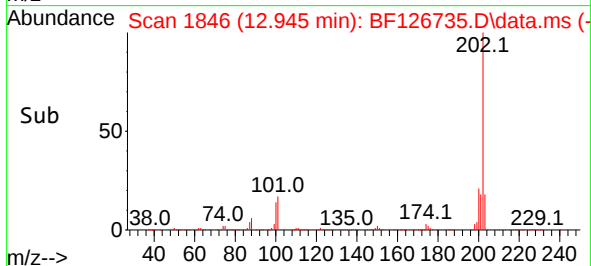
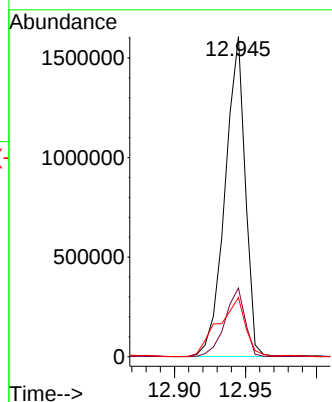
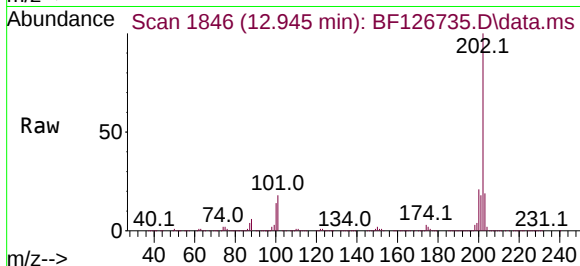
Tgt Ion:202 Resp: 1584522

Ion Ratio Lower Upper

202 100

200 21.5 16.6 24.8

203 18.5 13.8 20.8



#79

Terphenyl-d14

Concen: 11.700 ng

RT: 13.074 min Scan# 1868

Delta R.T. -0.006 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

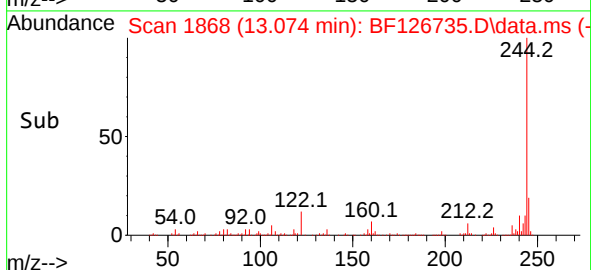
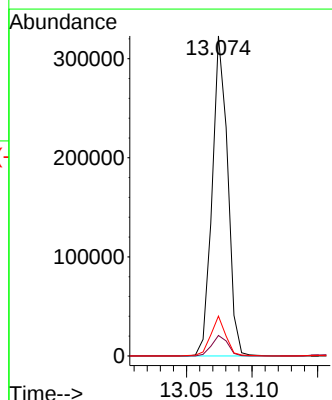
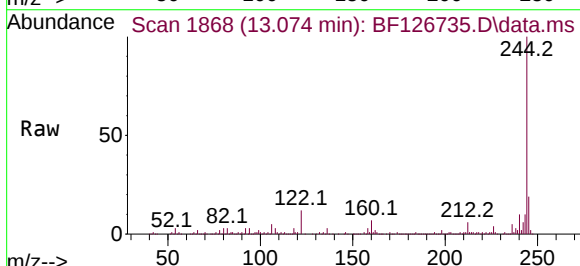
Tgt Ion:244 Resp: 265279

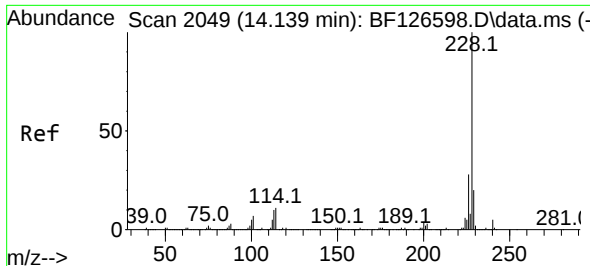
Ion Ratio Lower Upper

244 100

212 6.4 5.0 7.4

122 12.5 13.3 19.9#

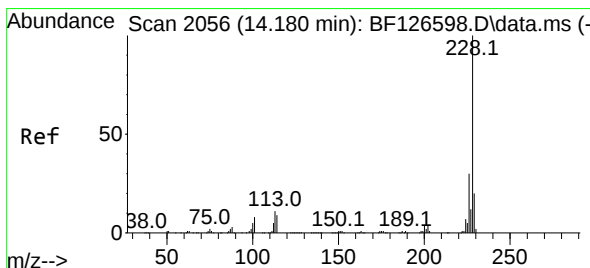
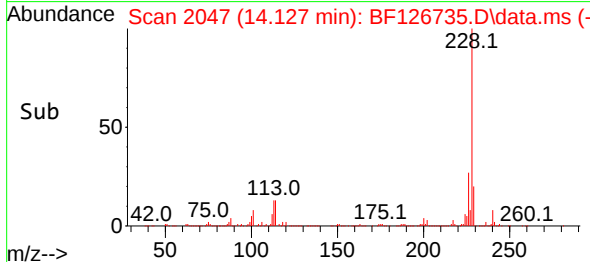
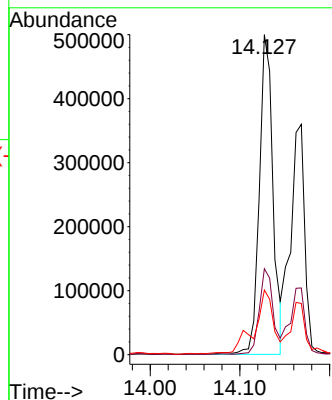
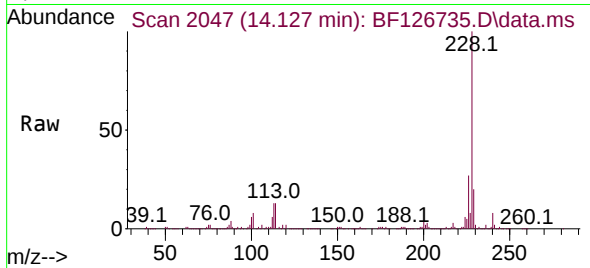




#81
Benzo(a)anthracene
Concen: 20.409 ng
RT: 14.127 min Scan# 2047
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

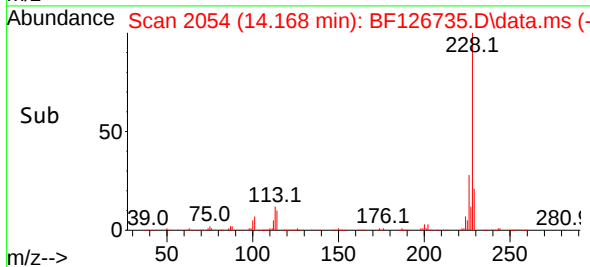
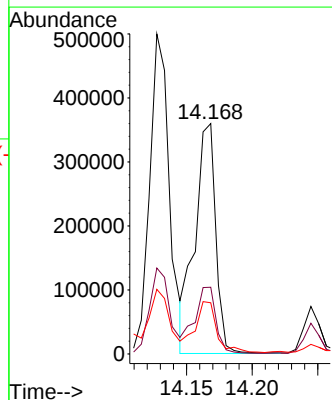
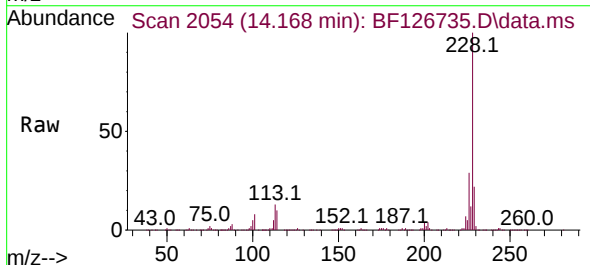
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

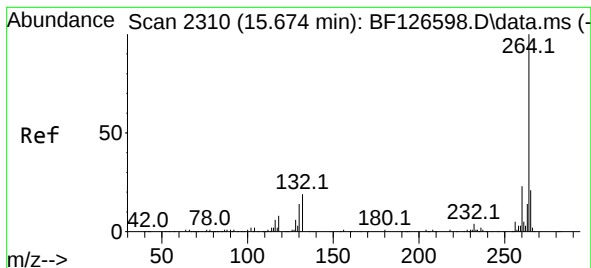
Tgt Ion:228 Resp: 527549
Ion Ratio Lower Upper
228 100
226 26.8 21.4 32.0
229 20.2 15.4 23.2



#83
Chrysene
Concen: 16.068 ng
RT: 14.168 min Scan# 2054
Delta R.T. -0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion:228 Resp: 399641
Ion Ratio Lower Upper
228 100
226 29.0 23.7 35.5
229 22.2 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.662 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

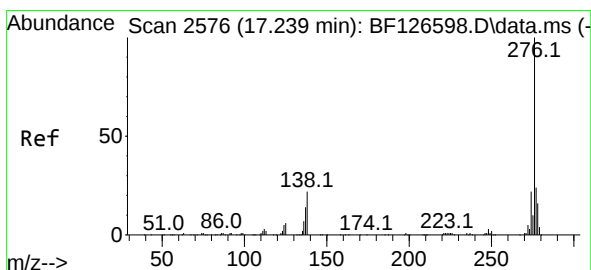
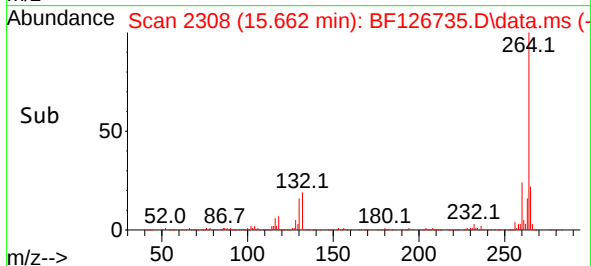
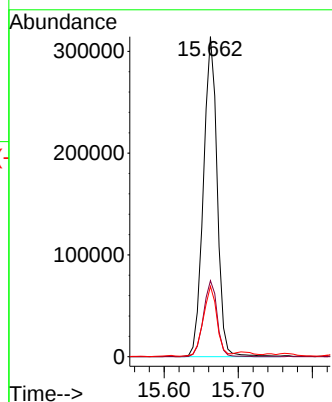
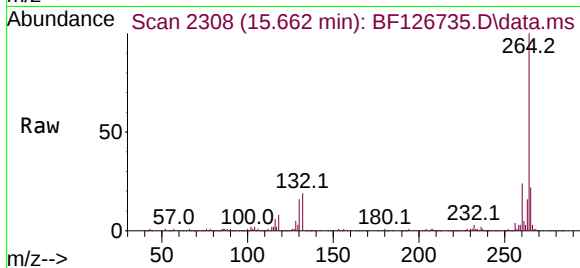
Tgt Ion:264 Resp: 408733

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

265 22.0 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.340 ng

RT: 17.209 min Scan# 2571

Delta R.T. -0.012 min

Lab File: BF126735.D

Acq: 28 Jan 2022 23:48

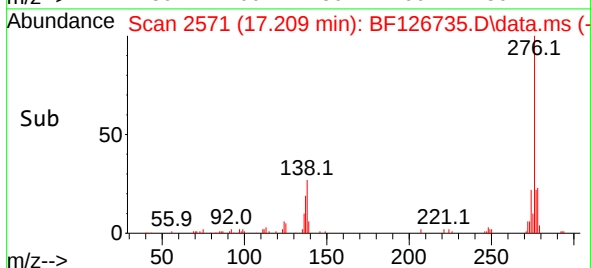
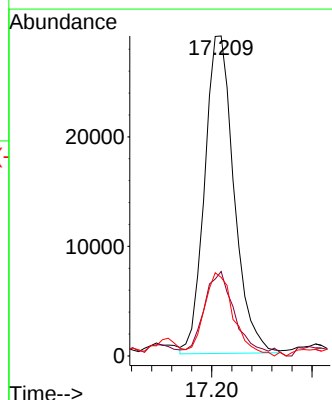
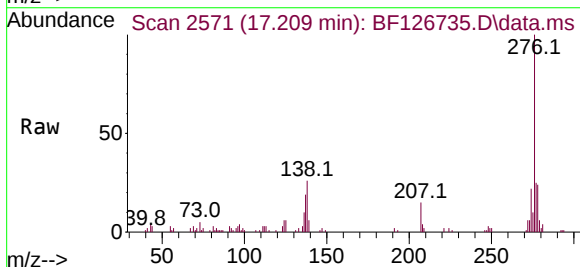
Tgt Ion:276 Resp: 59105

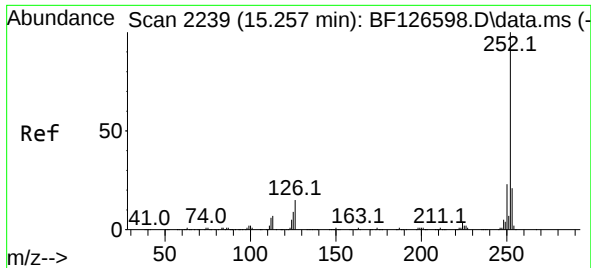
Ion Ratio Lower Upper

276 100

138 28.7 29.2 43.8#

277 26.2 19.8 29.8

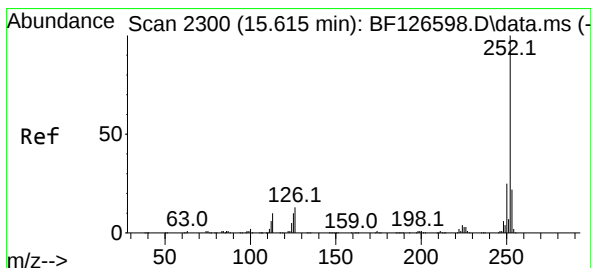
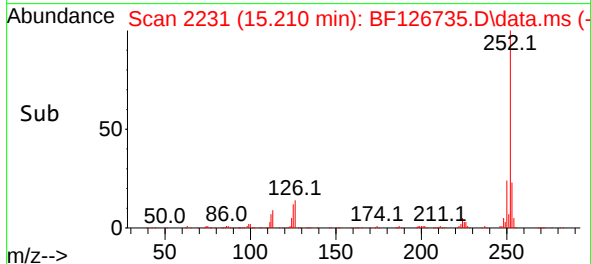
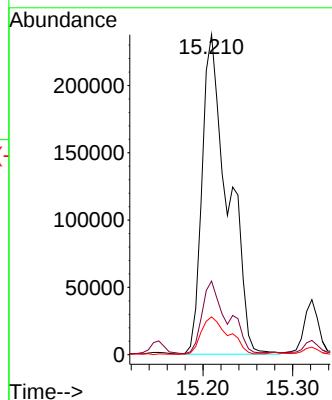
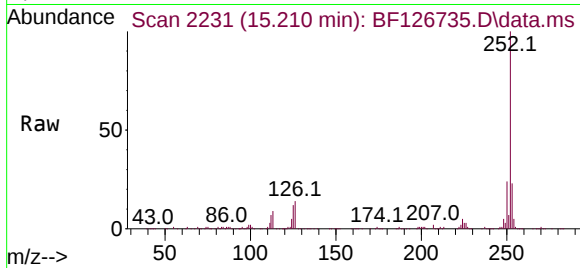




#89
Benzo(k)fluoranthene
Concen: 17.921 ng
RT: 15.210 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

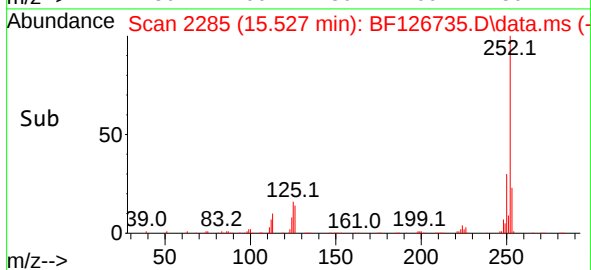
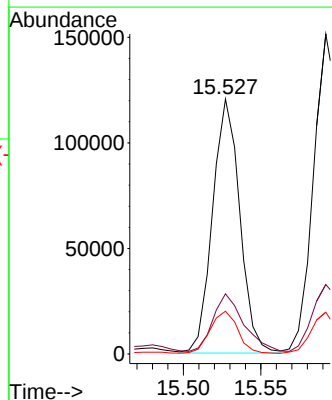
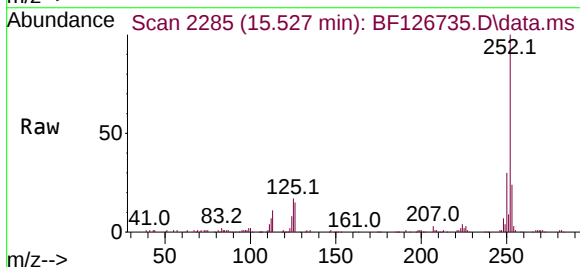
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

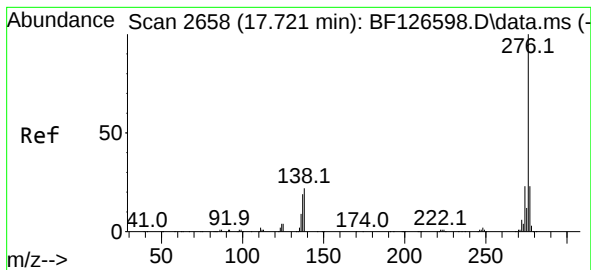
Tgt Ion:252 Resp: 476934
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 11.8 11.8 17.6



#90
Benzo(a)pyrene
Concen: 6.670 ng
RT: 15.527 min Scan# 2285
Delta R.T. -0.071 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion:252 Resp: 147098
Ion Ratio Lower Upper
252 100
253 23.6 17.1 25.7
125 16.7 13.0 19.6





#92
 Benzo(g,h,i)perylene
 Concen: 2.428 ng
 RT: 17.680 min Scan# 20
 Delta R.T. -0.018 min
 Lab File: BF126735.D
 Acq: 28 Jan 2022 23:48

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

Tgt Ion:	276	Resp:	49818
Ion Ratio	Lower	Upper	
276	100		
277	24.5	18.5	27.7
138	28.1	25.9	38.9

