

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102220\
 Data File : BF122092.D
 Acq On : 22 Oct 2020 19:34
 Operator : JU/CG
 Sample : L4480-02 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 IS-SOIL-PILE

Quant Time: Oct 23 00:48:01 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101220.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 21 12:04:42 2020
 Response via : Initial Calibration

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

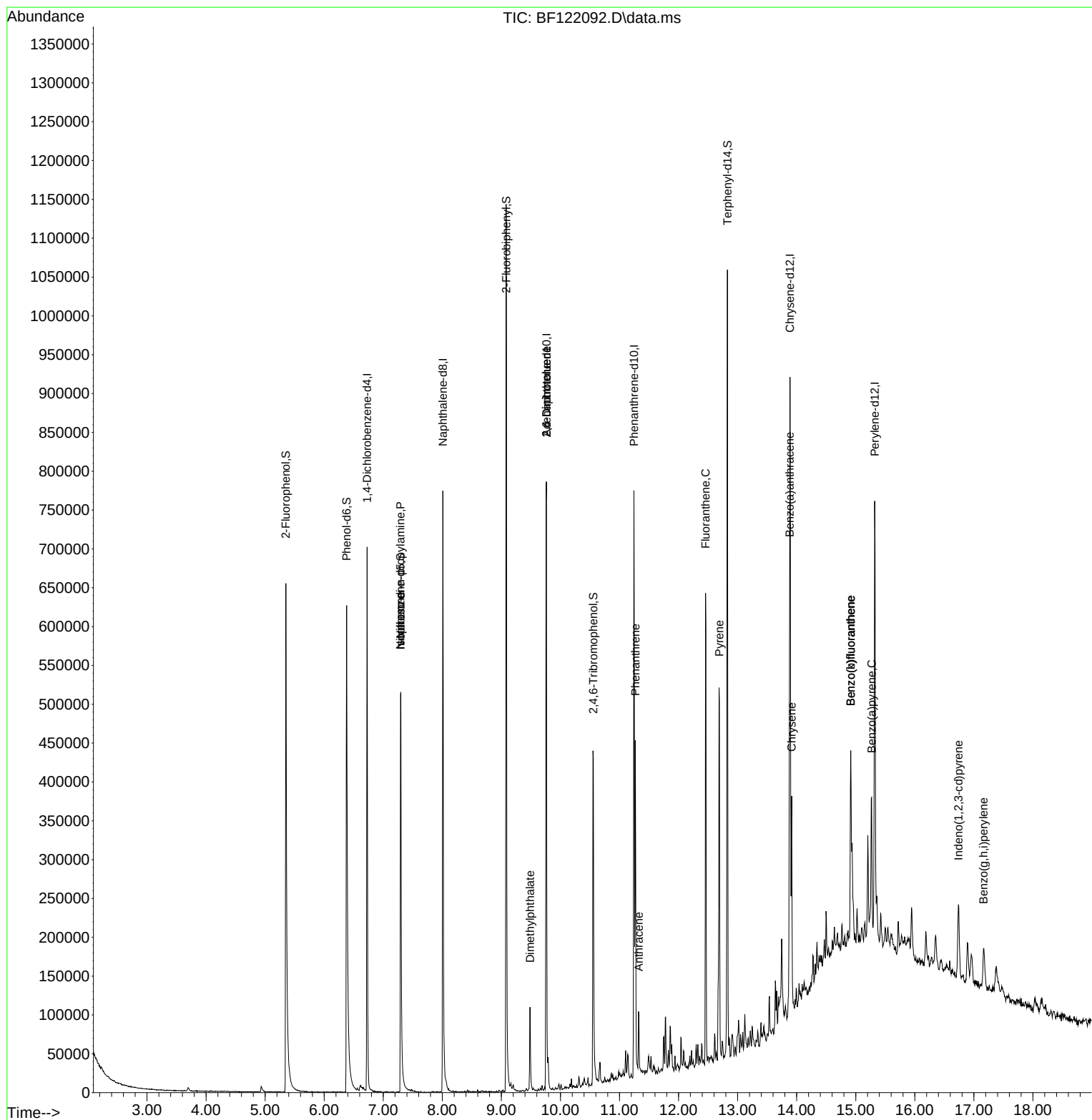
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.728	152	99157	20.00	ng	0.00
21) Naphthalene-d8	8.010	136	375227	20.00	ng	0.00
39) Acenaphthene-d10	9.763	164	177270	20.00	ng	0.00
64) Phenanthrene-d10	11.245	188	271895	20.00	ng	0.00
76) Chrysene-d12	13.886	240	240422	20.00	ng	0.00
86) Perylene-d12	15.321	264	246700	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.351	112	260513	38.78	ng	0.00
7) Phenol-d6	6.381	99	317992	36.77	ng	0.00
23) Nitrobenzene-d5	7.292	82	212013	28.98	ng	-0.01
42) 2,4,6-Tribromophenol	10.557	330	65983	30.09	ng	0.00
45) 2-Fluorobiphenyl	9.080	172	387187	32.14	ng	0.00
79) Terphenyl-d14	12.827	244	290680	23.04	ng	0.00
Target Compounds						
9) Benzaldehyde	6.381	77	233	Below Cal	#	3
19) n-Nitroso-di-n-propyla...	7.292	70	28261	5.74	ng	# 80
25) Isophorone	7.292	82	212011	15.32	ng	# 67
50) Dimethylphthalate	9.486	163	54433	4.20	ng	100
51) 2,6-Dinitrotoluene	9.763	165	22177	7.80	ng	# 20
57) 2,4-Dinitrotoluene	9.763	165	22177	6.34	ng	# 19
71) Phenanthrene	11.269	178	150072	10.07	ng	99
72) Anthracene	11.327	178	36962	2.39	ng	99
75) Fluoranthene	12.457	202	243605	15.24	ng	100
78) Pyrene	12.692	202	203994	11.13	ng	98
81) Benzo(a)anthracene	13.880	228	111478	7.08	ng	100
83) Chrysene	13.915	228	107784	6.97	ng	98
87) Indeno(1,2,3-cd)pyrene	16.739	276	46214	2.89	ng	96
88) Benzo(b)fluoranthene	14.915	252	169532	10.17	ng	98
89) Benzo(k)fluoranthene	14.915	252	169532	10.70	ng	# 96
90) Benzo(a)pyrene	15.268	252	81063	5.63	ng	96
92) Benzo(g,h,i)perylene	17.162	276	40783	3.09	ng	99

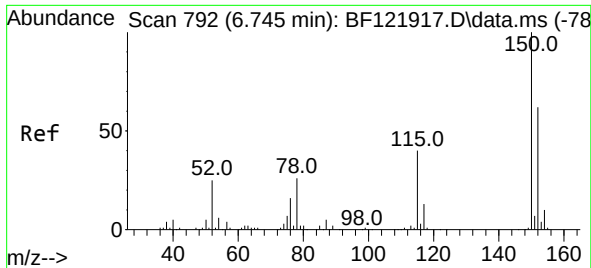
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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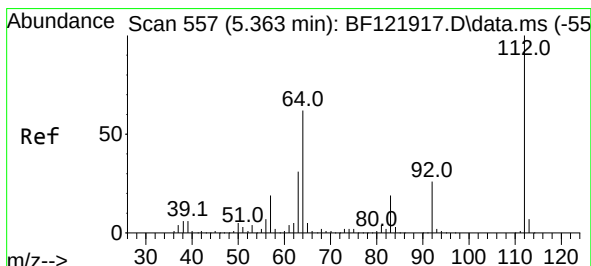
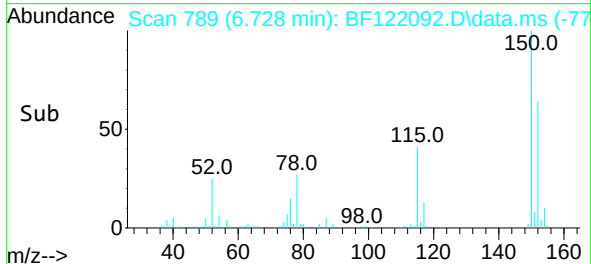
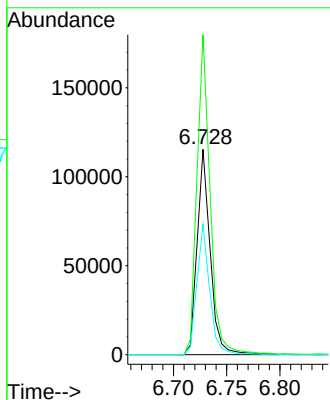
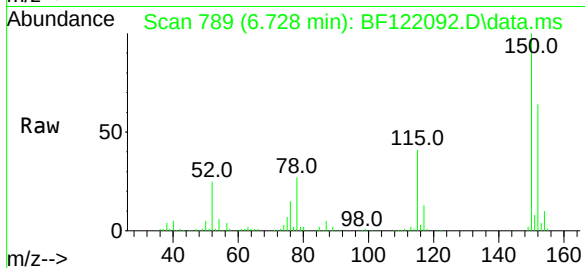




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.728 min Scan# 789
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

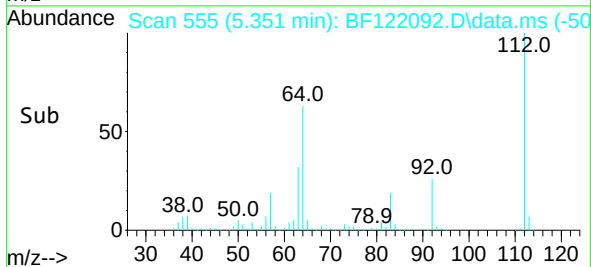
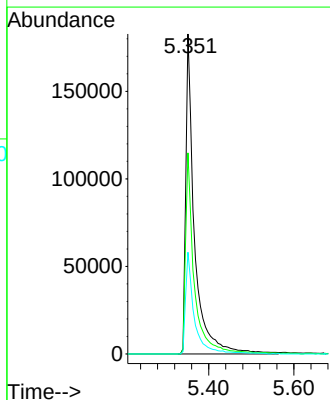
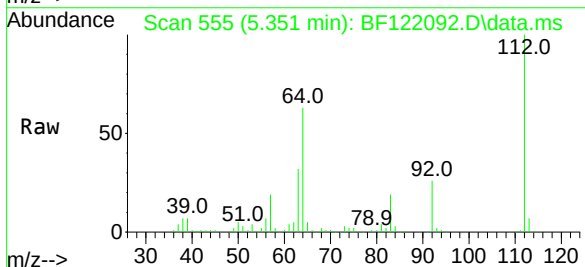
Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

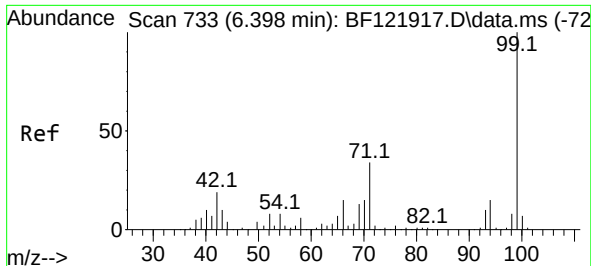
Tgt Ion:152 Resp: 99157
Ion Ratio Lower Upper
152 100
150 155.8 125.3 187.9
115 63.5 51.9 77.9



#5
2-Fluorophenol
Concen: 38.78 ng
RT: 5.351 min Scan# 555
Delta R.T. 0.006 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:112 Resp: 260513
Ion Ratio Lower Upper
112 100
64 62.9 50.4 75.6
63 31.8 25.8 38.6

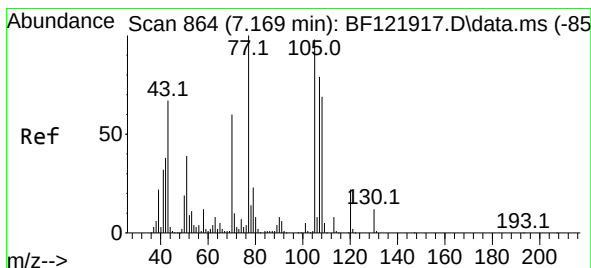
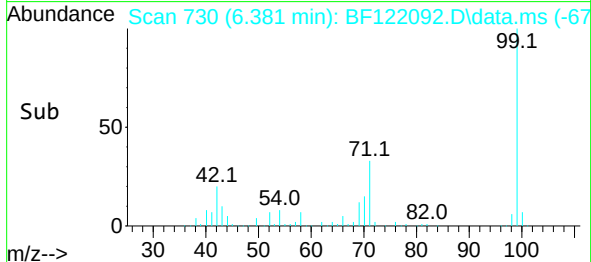
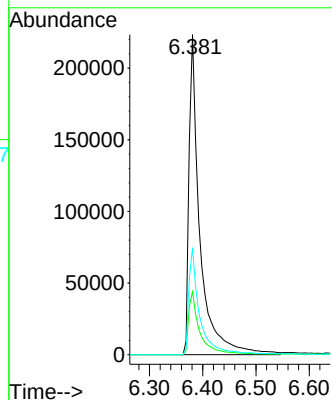
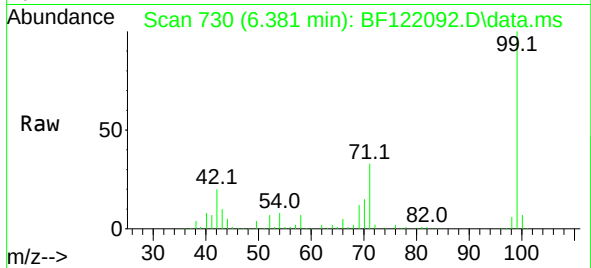




#7
Phenol-d6
Concen: 36.77 ng
RT: 6.381 min Scan# 730
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

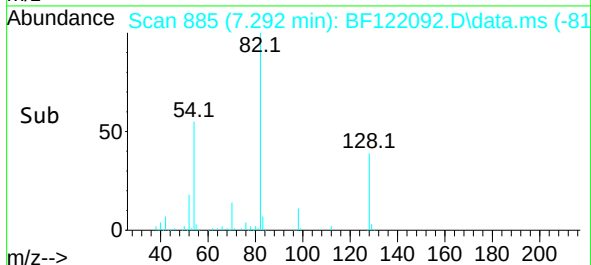
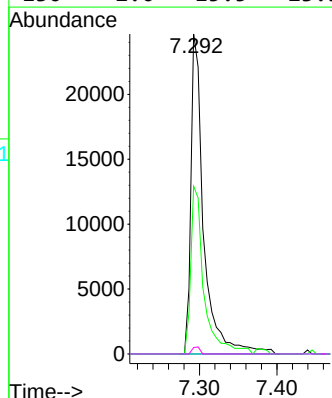
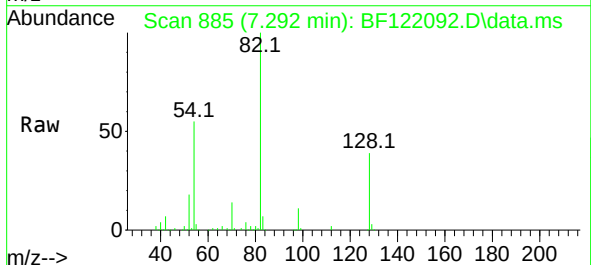
Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

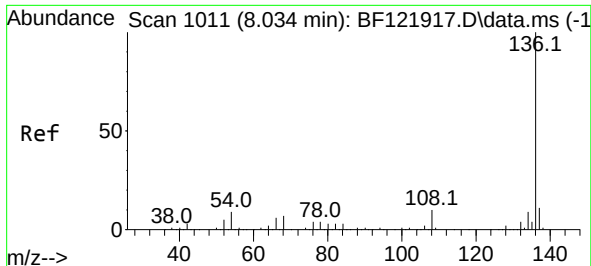
Tgt Ion: 99 Resp: 317992
Ion Ratio Lower Upper
99 100
42 19.6 15.9 23.9
71 33.4 27.1 40.7



#19
n-Nitroso-di-n-propylamine
Concen: 5.74 ng
RT: 7.292 min Scan# 885
Delta R.T. 0.135 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion: 70 Resp: 28261
Ion Ratio Lower Upper
70 100
42 52.4 50.2 75.4
101 0.0 7.5 11.3#
130 2.0 15.5 23.3#



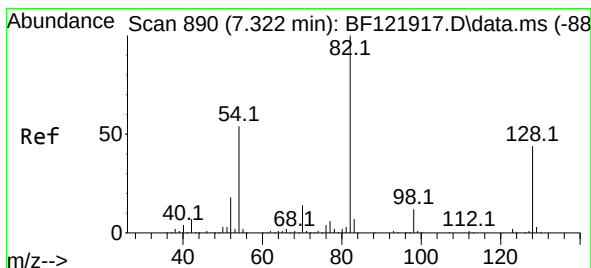
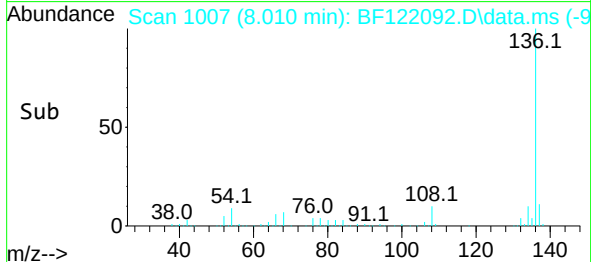
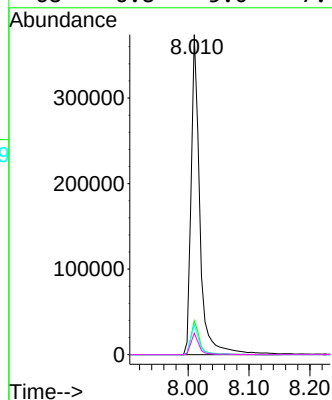
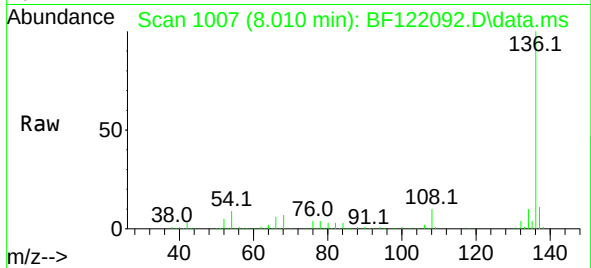


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.010 min Scan# 1007
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

Tgt Ion:136 Resp: 375227

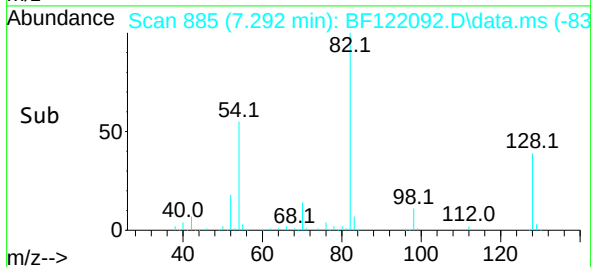
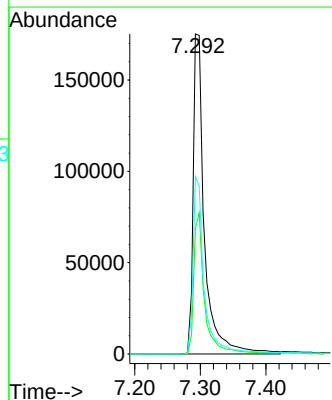
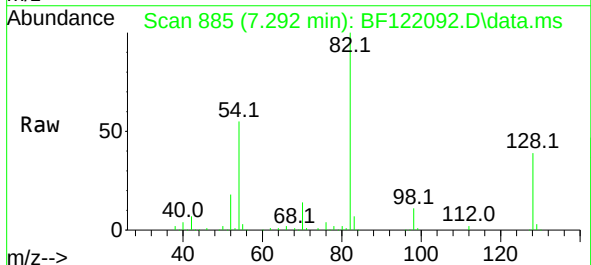
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	9.4	7.1	10.7
68	6.8	5.0	7.4

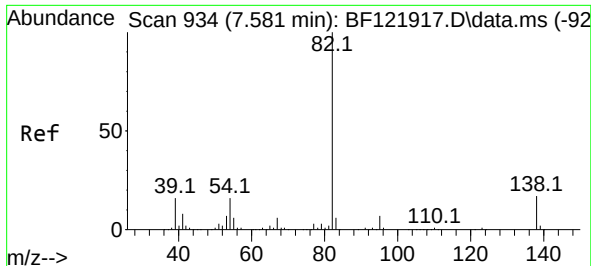


#23
Nitrobenzene-d5
Concen: 28.98 ng
RT: 7.292 min Scan# 885
Delta R.T. -0.012 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion: 82 Resp: 212013

Ion	Ratio	Lower	Upper
82	100		
128	39.2	35.0	52.4
54	55.4	43.9	65.9

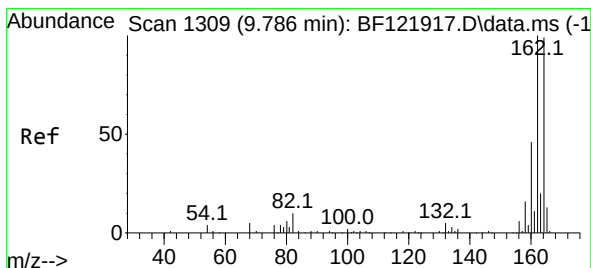
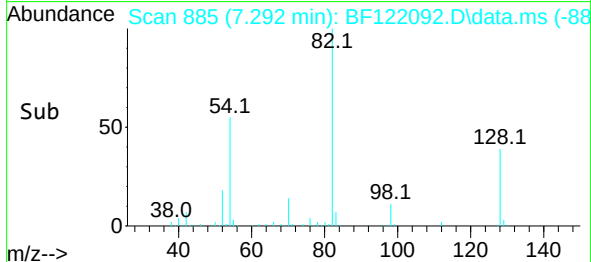
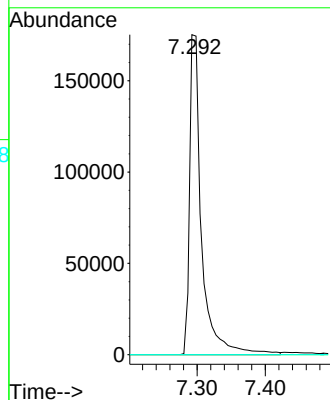
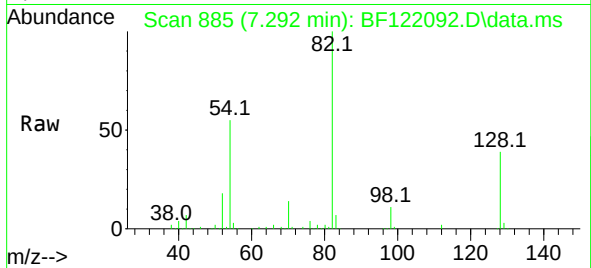




#25
Isophorone
Concen: 15.32 ng
RT: 7.292 min Scan# 885
Delta R.T. -0.271 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

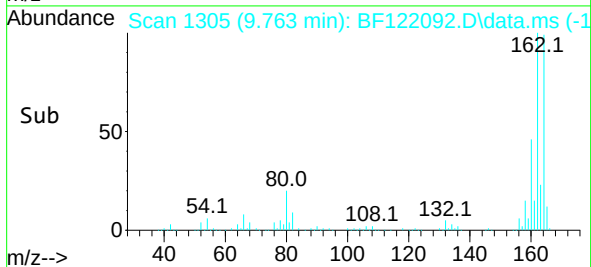
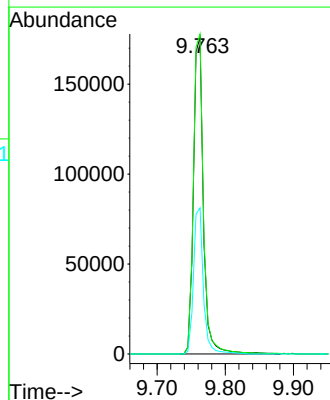
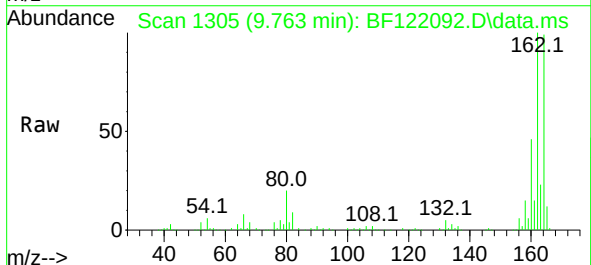
Instrument :
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ClientSampleId :
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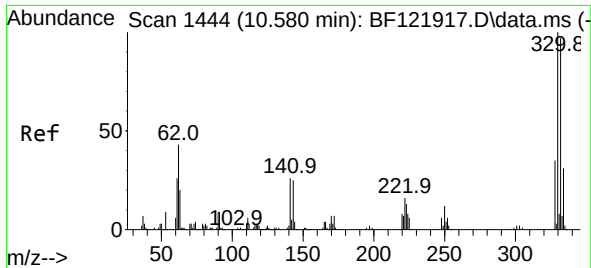
Tgt Ion: 82 Resp: 212011
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.0#
138 0.0 13.4 20.0#



#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.763 min Scan# 1305
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion: 164 Resp: 177270
Ion Ratio Lower Upper
164 100
162 101.1 83.2 124.8
160 46.1 37.5 56.3

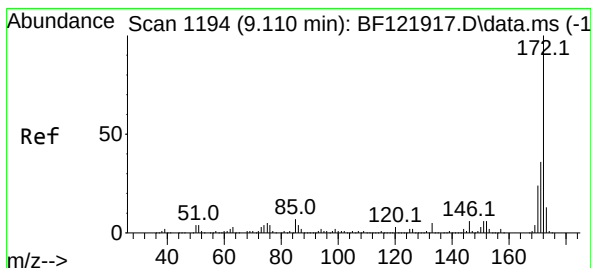
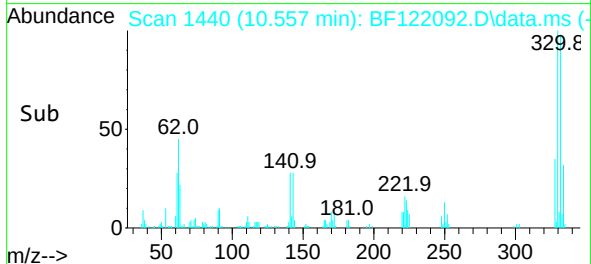
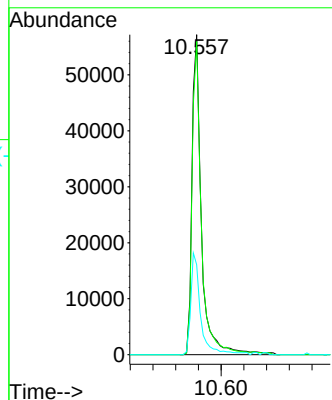
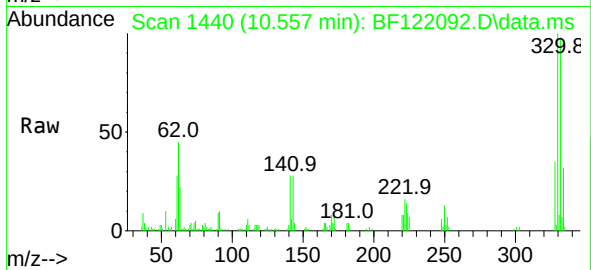




#42
2,4,6-Tribromophenol
Concen: 30.09 ng
RT: 10.557 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

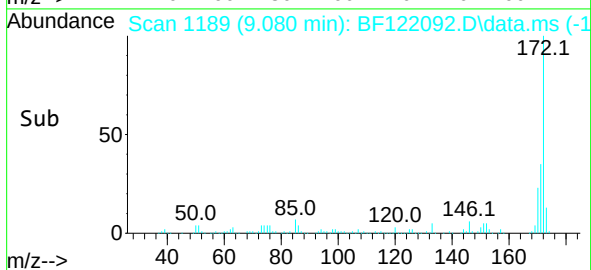
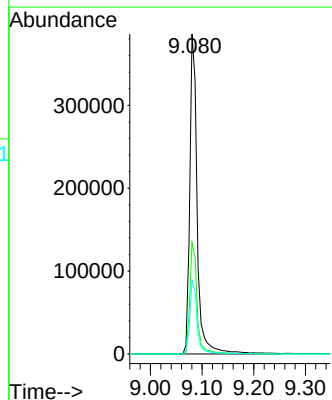
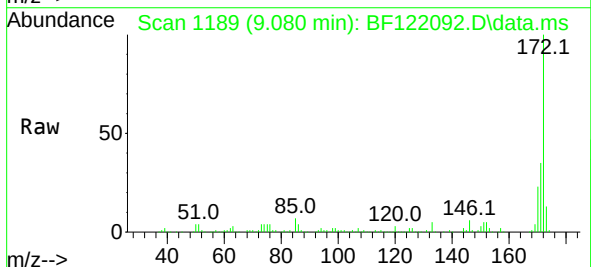
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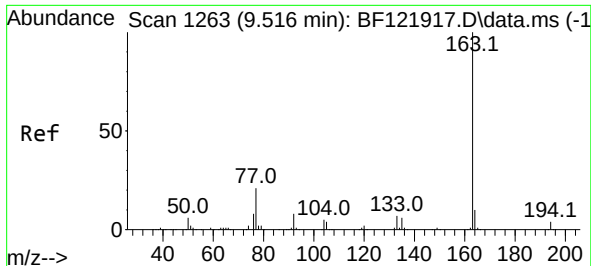
Tgt Ion:330 Resp: 65983
Ion Ratio Lower Upper
330 100
332 97.0 77.3 115.9
141 33.1 22.3 33.5



#45
2-Fluorobiphenyl
Concen: 32.14 ng
RT: 9.080 min Scan# 1189
Delta R.T. -0.006 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:172 Resp: 387187
Ion Ratio Lower Upper
172 100
171 34.8 29.1 43.7
170 23.0 19.8 29.6

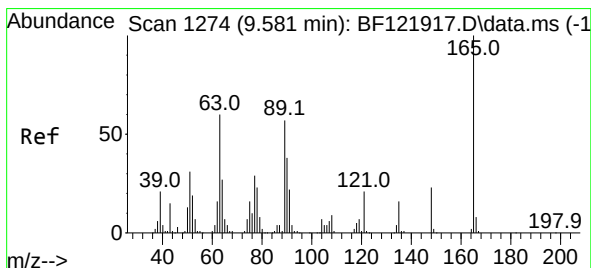
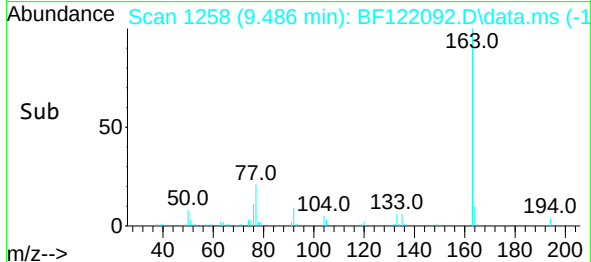
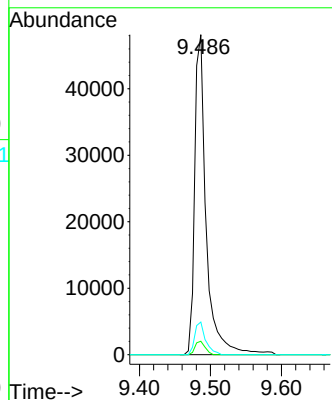
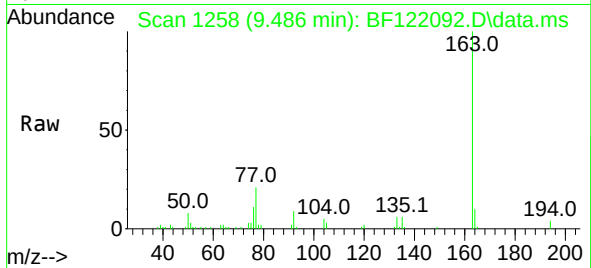




#50
Dimethylphthalate
Concen: 4.20 ng
RT: 9.486 min Scan# 1258
Delta R.T. -0.006 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

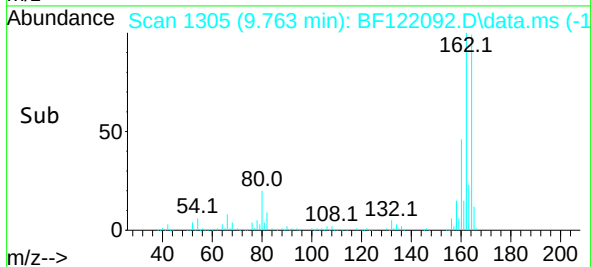
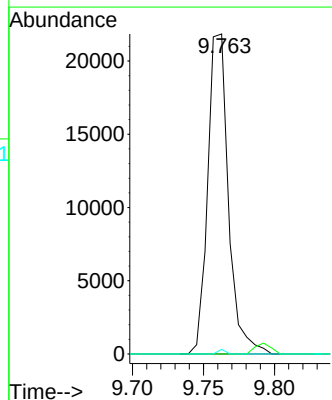
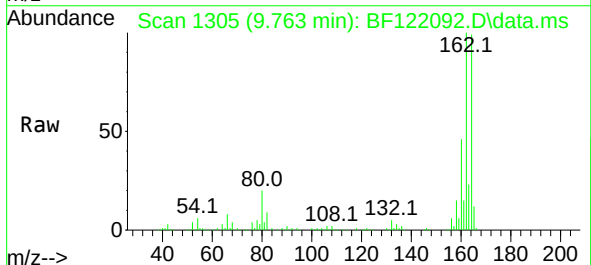
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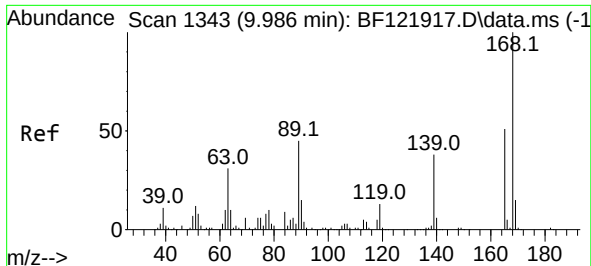
Tgt Ion:163 Resp: 54433
Ion Ratio Lower Upper
163 100
194 4.2 3.3 4.9
164 10.2 8.2 12.4



#51
2,6-Dinitrotoluene
Concen: 7.80 ng
RT: 9.763 min Scan# 1305
Delta R.T. 0.200 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

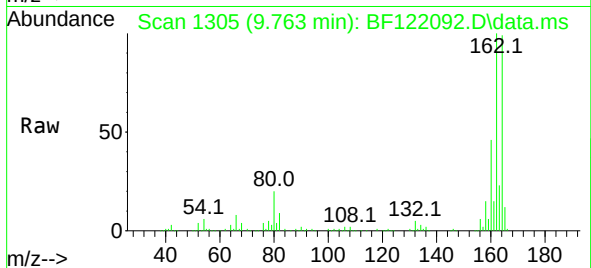
Tgt Ion:165 Resp: 22177
Ion Ratio Lower Upper
165 100
63 0.0 51.8 77.6#
89 1.4 49.0 73.6#



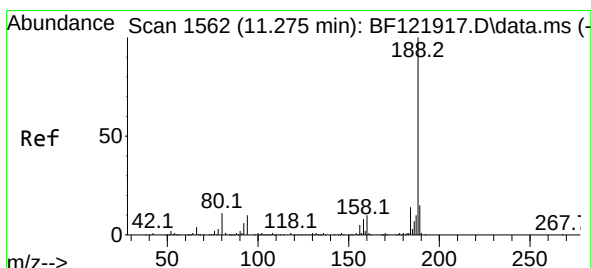
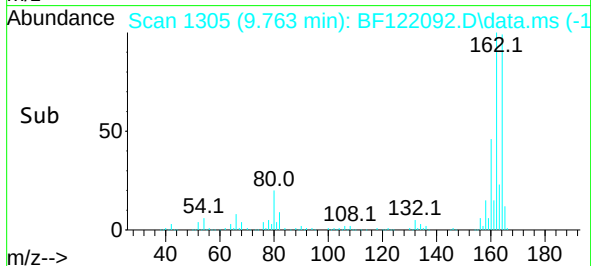
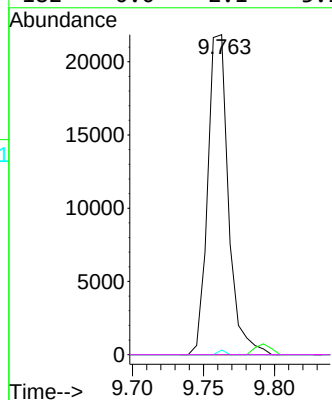


#57
2,4-Dinitrotoluene
Concen: 6.34 ng
RT: 9.763 min Scan# 1305
Delta R.T. -0.212 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

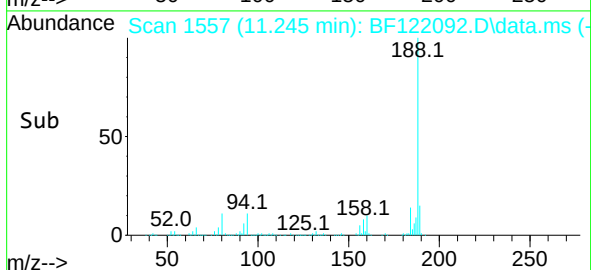
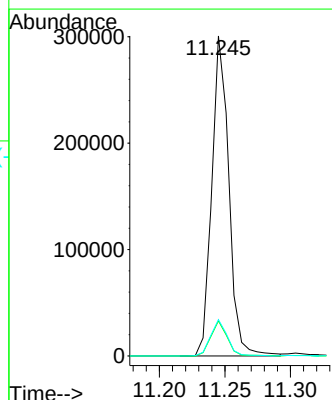
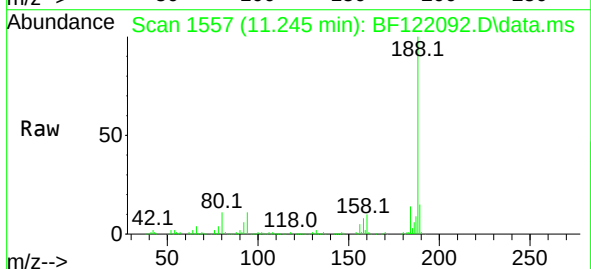


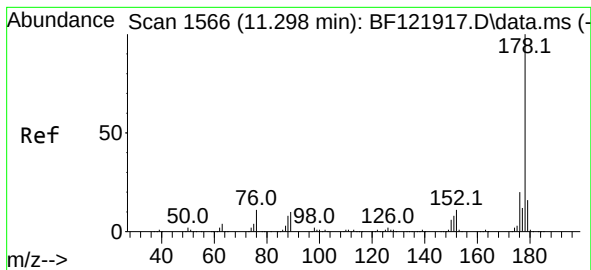
Tgt Ion:	165	Resp:	22177
Ion Ratio	Lower	Upper	
165	100		
63	0.0	41.3	61.9#
89	1.4	61.8	92.8#
182	0.0	2.1	3.1#



#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.245 min Scan# 1557
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:	188	Resp:	271895
Ion Ratio	Lower	Upper	
188	100		
94	11.0	8.3	12.5
80	11.3	9.1	13.7

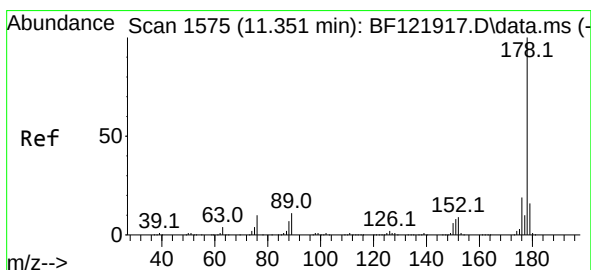
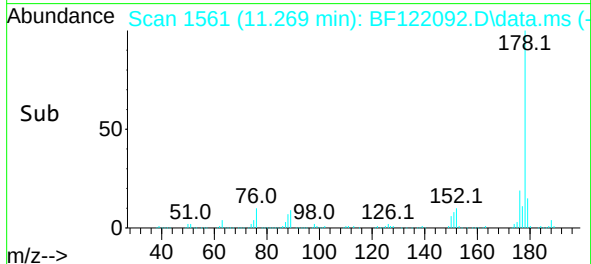
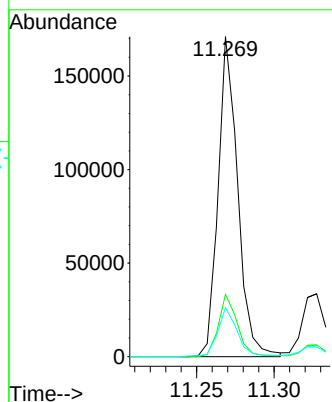
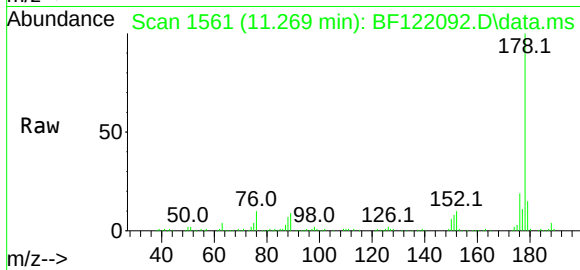




#71
Phenanthrene
Concen: 10.07 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.006 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

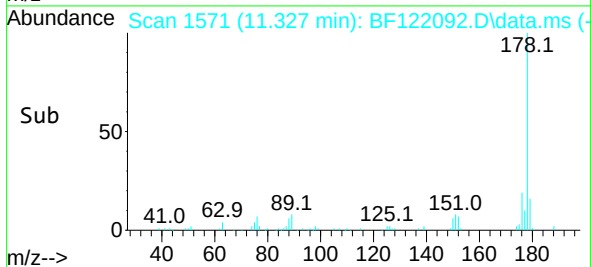
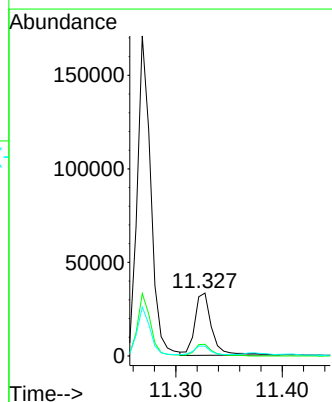
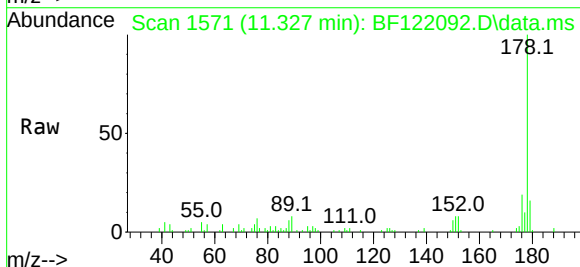
Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

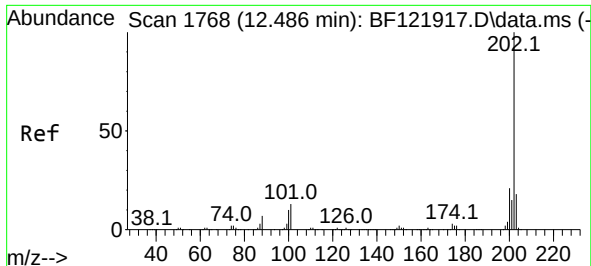
Tgt Ion:178 Resp: 150072
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.3 12.2 18.4



#72
Anthracene
Concen: 2.39 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:178 Resp: 36962
Ion Ratio Lower Upper
178 100
176 18.6 15.7 23.5
179 15.6 12.7 19.1

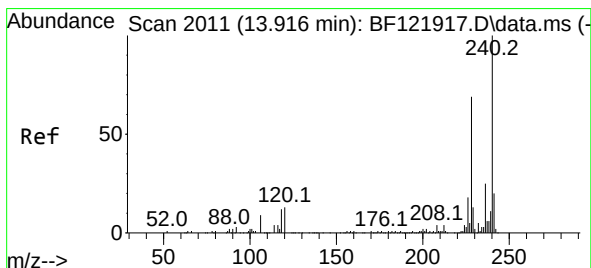
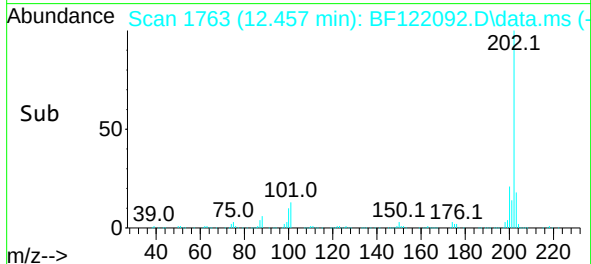
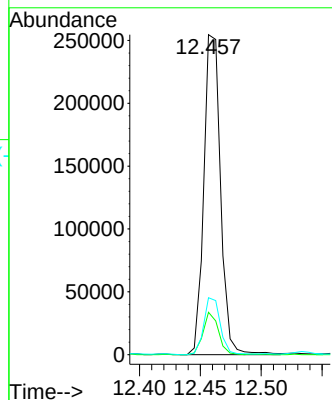
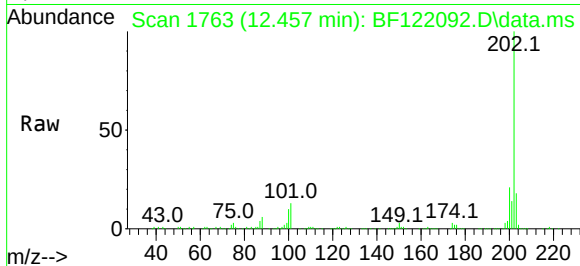




#75
Fluoranthene
Concen: 15.24 ng
RT: 12.457 min Scan# 1763
Delta R.T. -0.006 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

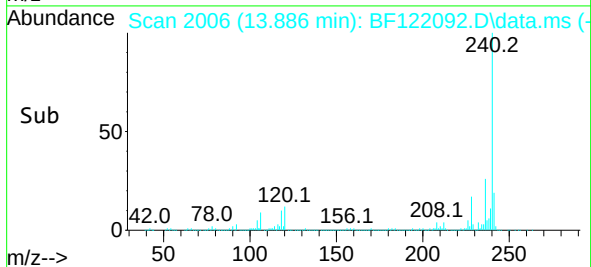
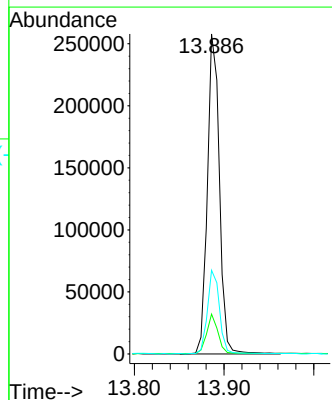
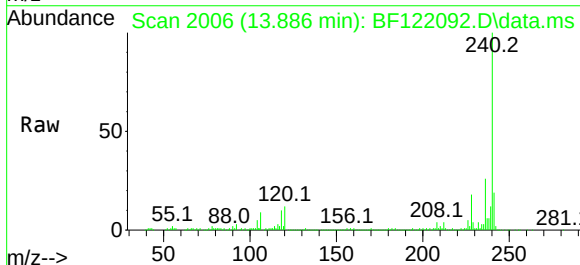
Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

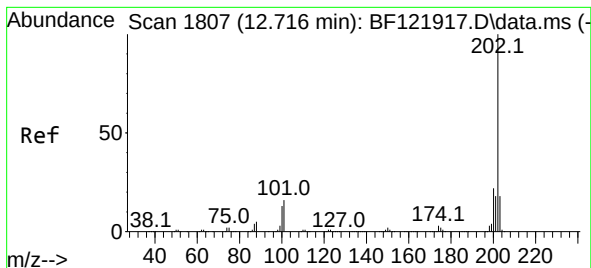
Tgt Ion:202 Resp: 243605
Ion Ratio Lower Upper
202 100
101 13.3 0.0 33.4
203 17.8 0.0 37.9



#76
Chrysene-d12
Concen: 20.00 ng
RT: 13.886 min Scan# 2006
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:240 Resp: 240422
Ion Ratio Lower Upper
240 100
120 12.4 9.2 13.8
236 26.2 20.9 31.3





#78

Pyrene

Concen: 11.13 ng

RT: 12.692 min Scan# 1803

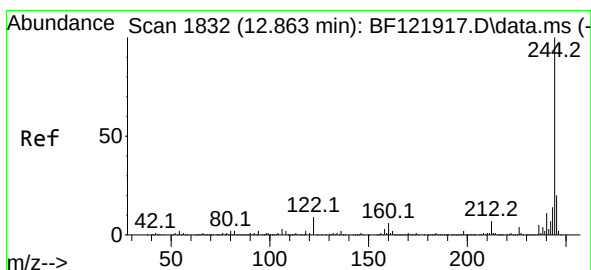
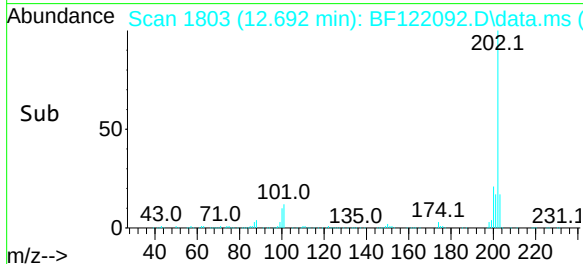
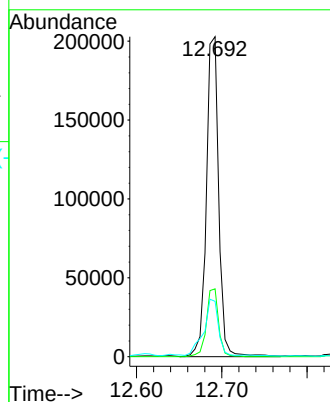
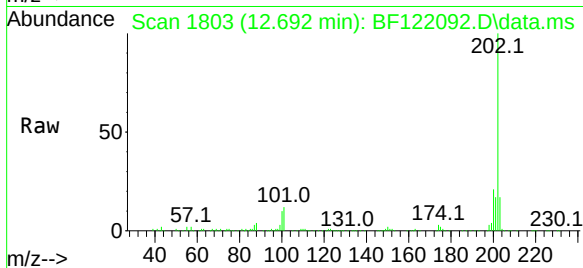
Delta R.T. 0.006 min

Lab File: BF122092.D

Acq: 22 Oct 2020 19:34

Tgt Ion:202 Resp: 203994

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	17.3	14.6	21.8



#79

Terphenyl-d14

Concen: 23.04 ng

RT: 12.827 min Scan# 1826

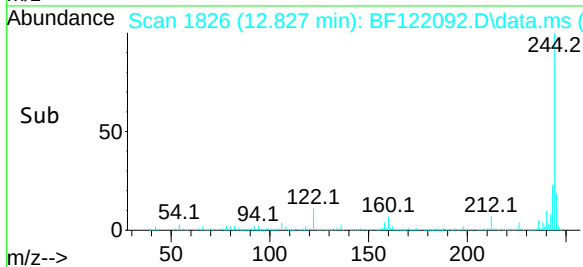
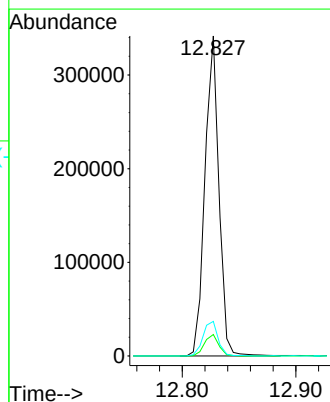
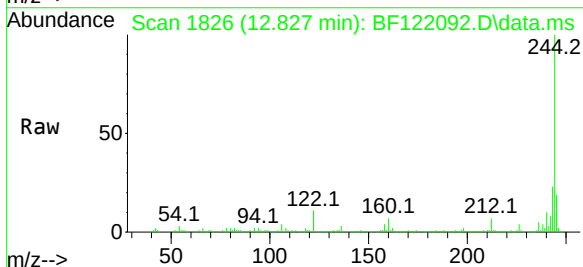
Delta R.T. -0.006 min

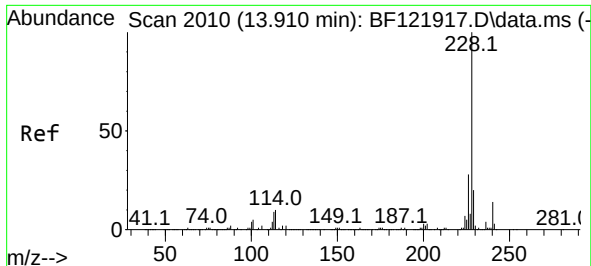
Lab File: BF122092.D

Acq: 22 Oct 2020 19:34

Tgt Ion:244 Resp: 290680

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	10.8	8.1	12.1

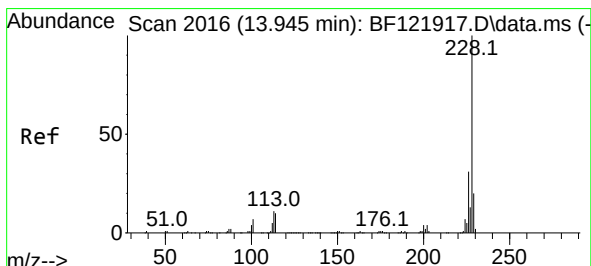
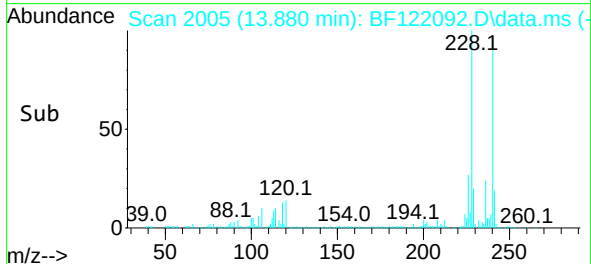
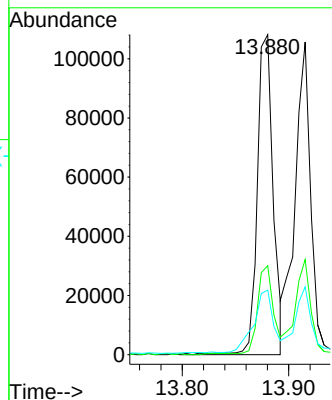
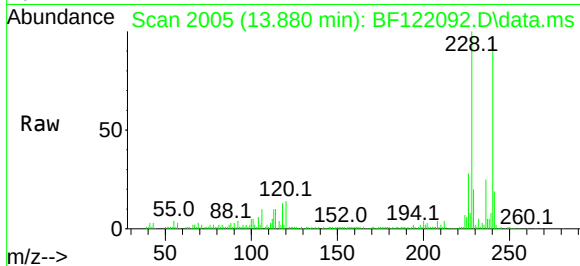




#81
Benzo(a)anthracene
Concen: 7.08 ng
RT: 13.880 min Scan# 2005
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

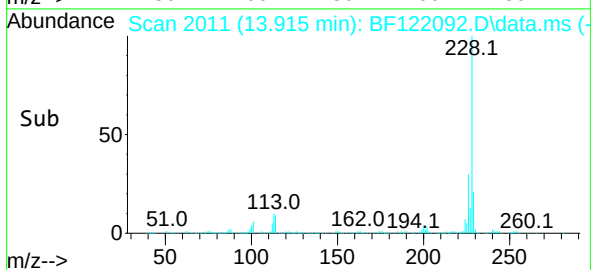
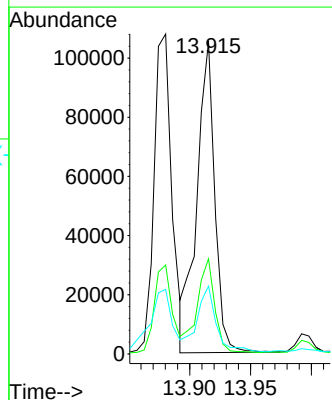
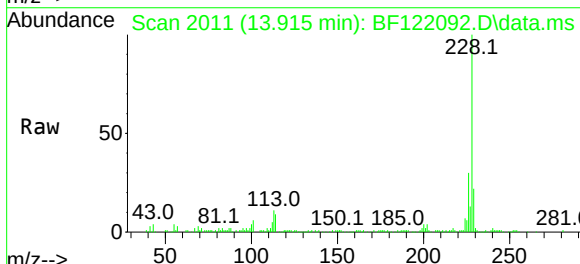
Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

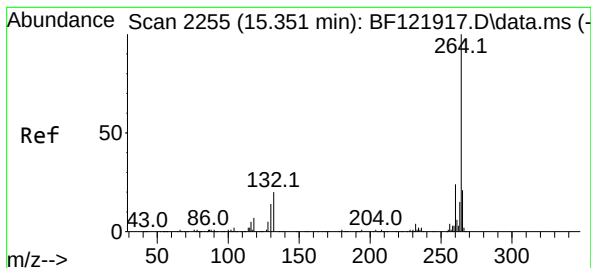
Tgt Ion:228 Resp: 111478
Ion Ratio Lower Upper
228 100
226 27.8 22.3 33.5
229 20.2 16.2 24.4



#83
Chrysene
Concen: 6.97 ng
RT: 13.915 min Scan# 2011
Delta R.T. -0.000 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:228 Resp: 107784
Ion Ratio Lower Upper
228 100
226 30.5 24.6 37.0
229 21.7 15.9 23.9

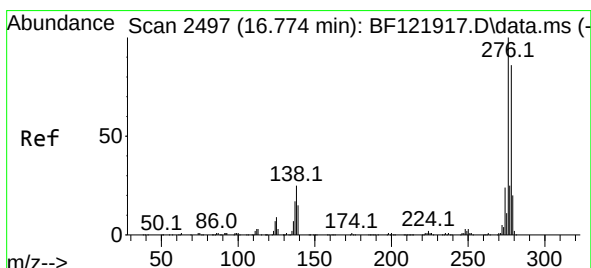
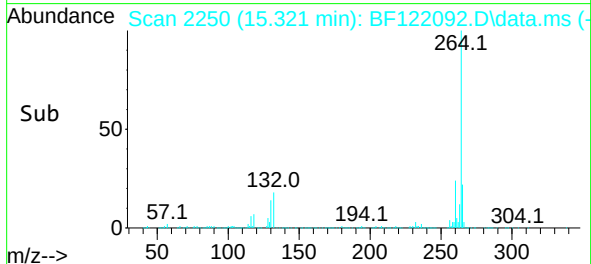
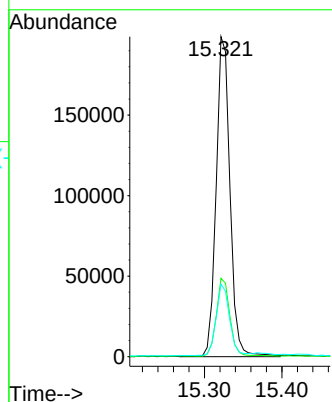
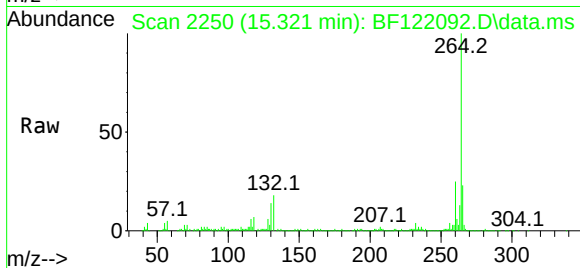




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.321 min Scan# 2250
Delta R.T. 0.006 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

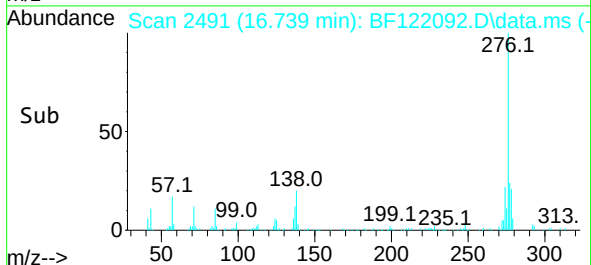
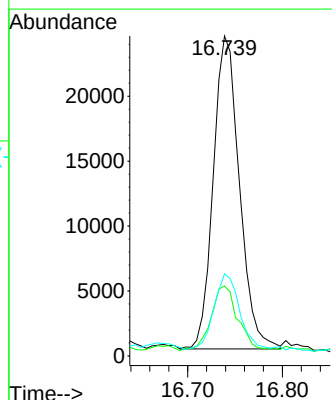
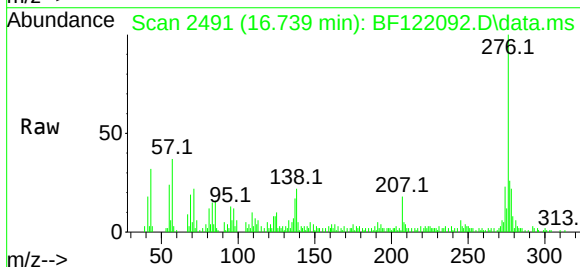
Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

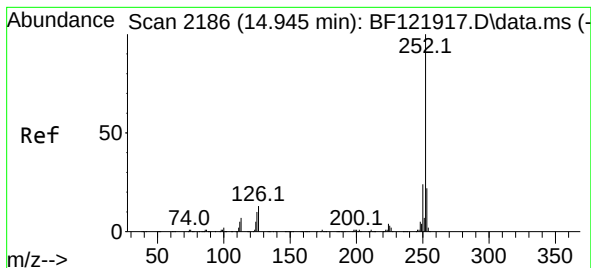
Tgt Ion:264 Resp: 246700
Ion Ratio Lower Upper
264 100
260 24.5 18.7 28.1
265 22.7 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.89 ng
RT: 16.739 min Scan# 2491
Delta R.T. 0.012 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:276 Resp: 46214
Ion Ratio Lower Upper
276 100
138 21.3 19.9 29.9
277 26.1 20.4 30.6

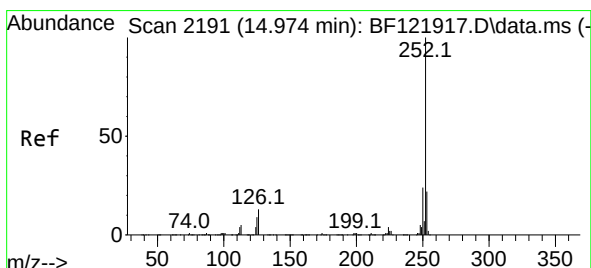
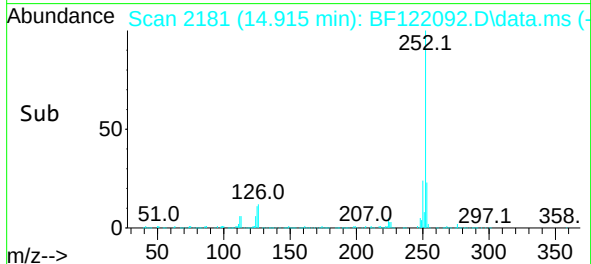
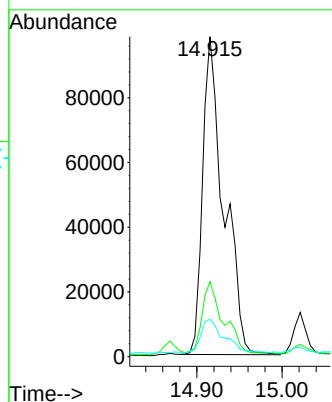
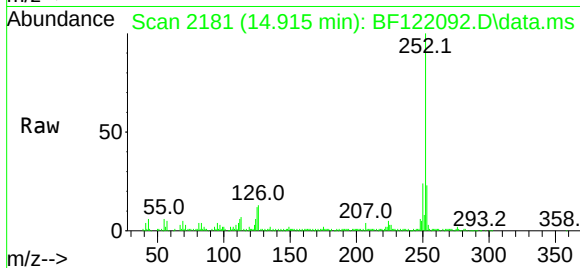




#88
Benzo(b)fluoranthene
Concen: 10.17 ng
RT: 14.915 min Scan# 2181
Delta R.T. 0.006 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

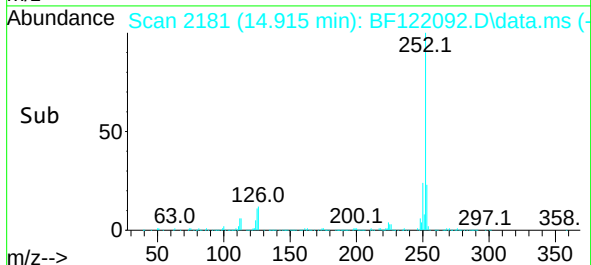
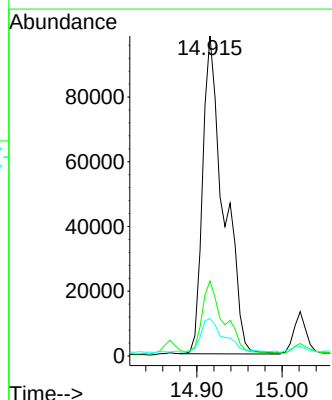
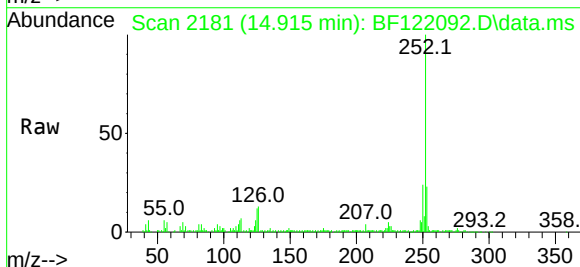
Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

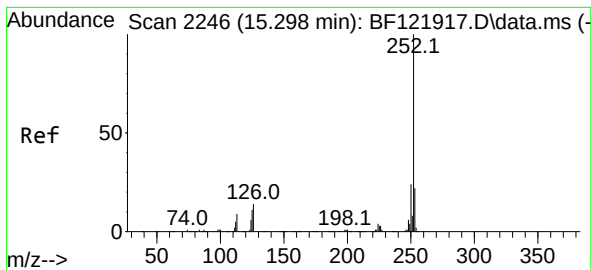
Tgt Ion:252 Resp: 169532
Ion Ratio Lower Upper
252 100
253 23.5 18.2 27.2
125 11.7 8.0 12.0



#89
Benzo(k)fluoranthene
Concen: 10.70 ng
RT: 14.915 min Scan# 2181
Delta R.T. -0.018 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:252 Resp: 169532
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.6
125 11.7 7.7 11.5#

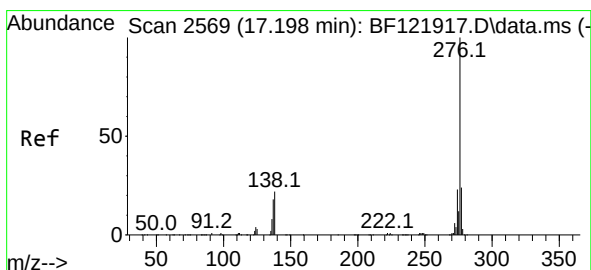
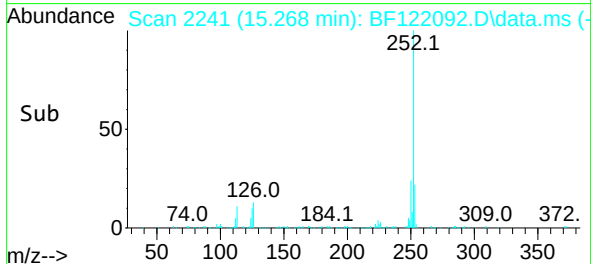
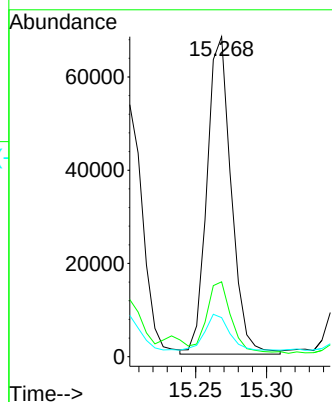
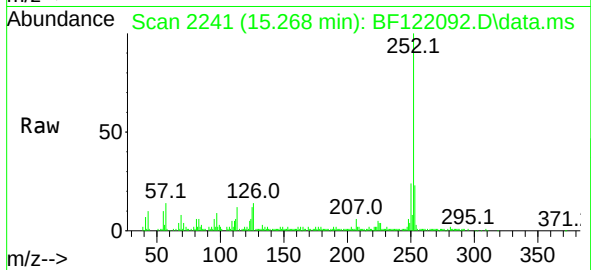




#90
Benzo(a)pyrene
Concen: 5.63 ng
RT: 15.268 min Scan# 2241
Delta R.T. 0.012 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Instrument :
BNA_F
ClientSampleId :
IS-SOIL-PILE

Tgt Ion:	252	Resp:	81063
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.3	25.9
125	12.2	8.6	13.0



#92
Benzo(g,h,i)perylene
Concen: 3.09 ng
RT: 17.162 min Scan# 2563
Delta R.T. 0.023 min
Lab File: BF122092.D
Acq: 22 Oct 2020 19:34

Tgt Ion:	276	Resp:	40783
Ion Ratio	Lower	Upper	
276	100		
277	24.8	19.4	29.2
138	22.6	17.8	26.6

