

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021722\
 Data File : BF126940.D
 Acq On : 17 Feb 2022 21:42
 Operator : CG\JU
 Sample : N1556-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NE-SURFICIAL-SOIL

Quant Time: Feb 18 03:46:27 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF021622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 16 14:55:48 2022
 Response via : Initial Calibration

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

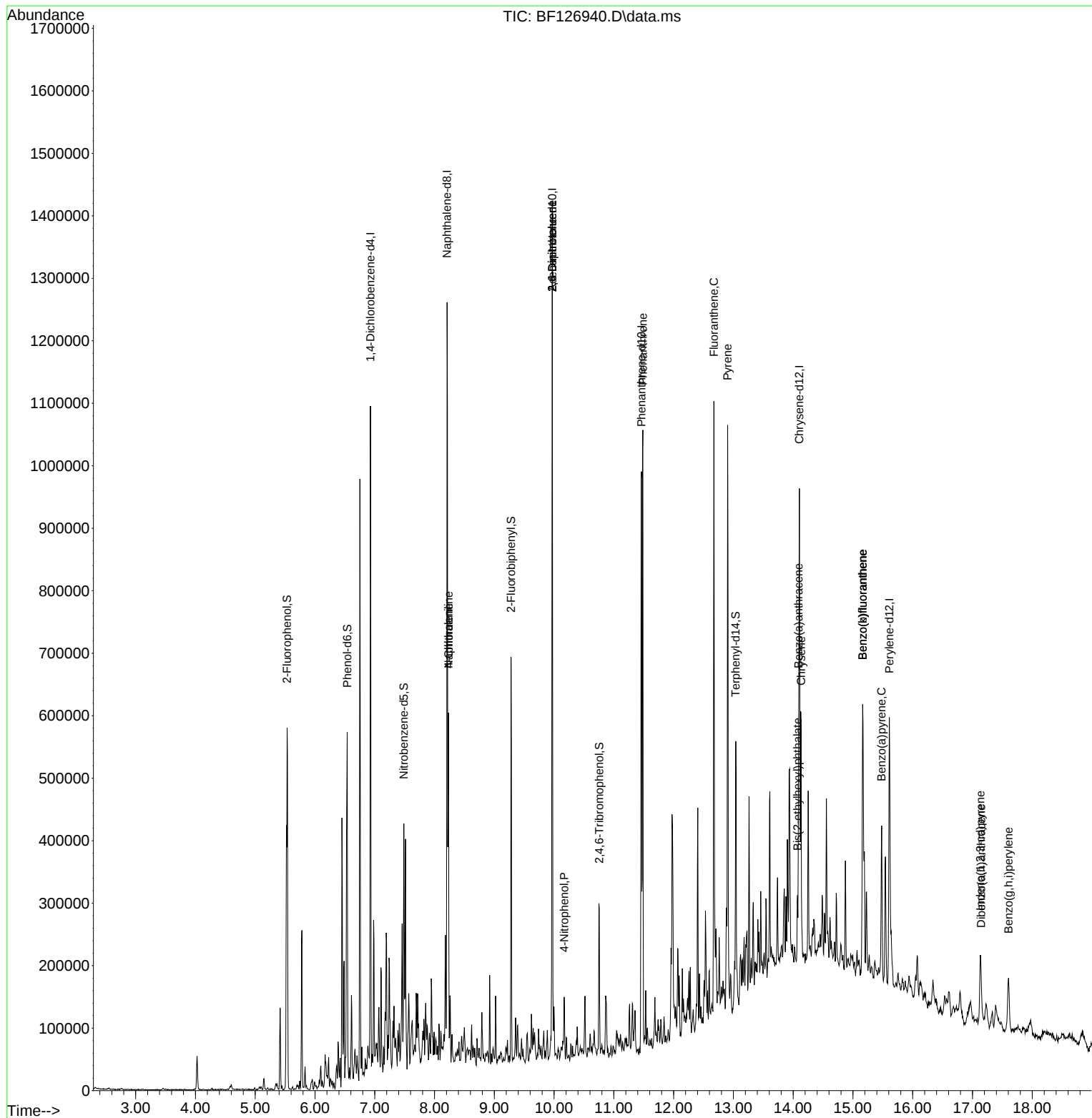
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	118064	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	470486	20.000	ng	0.00
39) Acenaphthene-d10	9.969	164	232379	20.000	ng	0.00
64) Phenanthrene-d10	11.463	188	334915	20.000	ng	# 0.00
76) Chrysene-d12	14.104	240	188013	20.000	ng	# 0.00
86) Perylene-d12	15.610	264	165673	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.534	112	99482	13.023	ng	-0.01
7) Phenol-d6	6.540	99	136354	13.229	ng	-0.02
23) Nitrobenzene-d5	7.487	82	96339	9.243	ng	-0.01
42) 2,4,6-Tribromophenol	10.757	330	20532	7.674	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	165197	10.465	ng	-0.01
79) Terphenyl-d14	13.039	244	112034	8.760	ng	-0.01
Target Compounds						
						Qvalue
31) Naphthalene	8.234	128	171053	6.965	ng	99
33) 4-Chloroaniline	8.234	127	22974	2.377	ng	# 29
51) 2,6-Dinitrotoluene	9.969	165	32539	9.629	ng	# 22
56) 4-Nitrophenol	10.169	139	11170	3.661	ng	# 13
57) 2,4-Dinitrotoluene	9.969	165	32539	7.121	ng	# 16
71) Phenanthrene	11.486	178	348771	18.605	ng	98
75) Fluoranthene	12.674	202	322829	18.137	ng	95
78) Pyrene	12.904	202	273240	16.728	ng	98
81) Benzo(a)anthracene	14.092	228	136995	10.808	ng	95
83) Chrysene	14.133	228	156720	13.148	ng	99
84) Bis(2-ethylhexyl)phtha...	14.074	149	20761	2.045	ng	# 97
87) Indeno(1,2,3-cd)pyrene	17.133	276	76140	7.009	ng	# 84
88) Benzo(b)fluoranthene	15.163	252	299439	26.911	ng	# 96
89) Benzo(k)fluoranthene	15.163	252	299439	27.900	ng	# 96
90) Benzo(a)pyrene	15.480	252	108640	12.500	ng	98
91) Dibenzo(a,h)anthracene	17.145	278	20766	2.311	ng	# 94
92) Benzo(g,h,i)perylene	17.604	276	67785	7.653	ng	# 88

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

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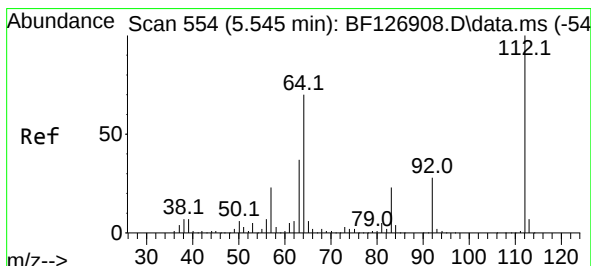
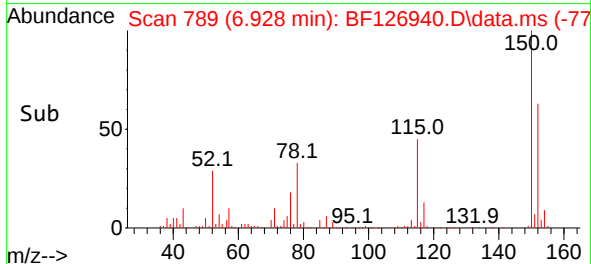
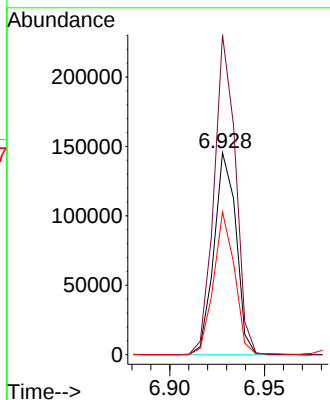
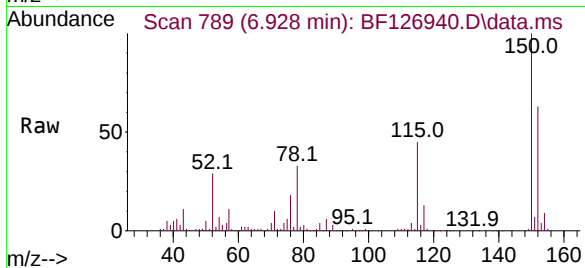




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 71
Delta R.T. -0.005 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

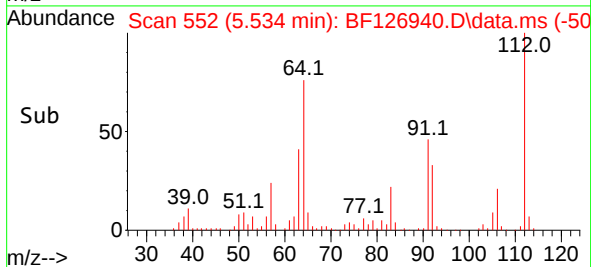
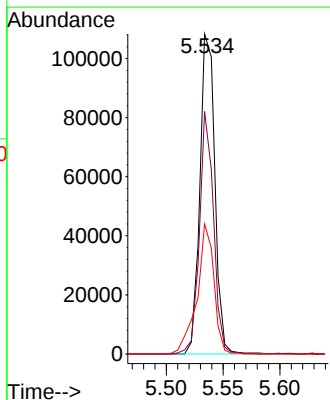
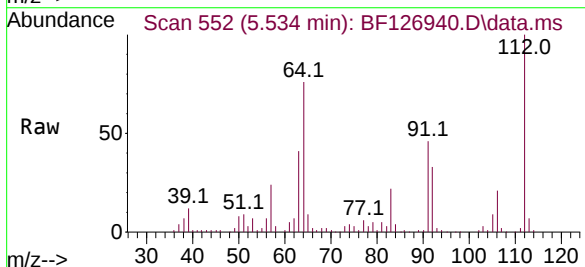
Instrument :
BNA_F
ClientSampleId :
NE-SURFICIAL-SOIL

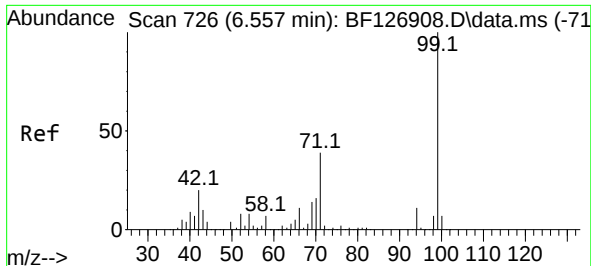
Tgt Ion:152 Resp: 118064
Ion Ratio Lower Upper
152 100
150 158.4 128.1 192.1
115 70.7 56.7 85.1



#5
2-Fluorophenol
Concen: 13.023 ng
RT: 5.534 min Scan# 552
Delta R.T. -0.012 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion:112 Resp: 99482
Ion Ratio Lower Upper
112 100
64 75.7 49.5 74.3#
63 40.6 23.9 35.9#

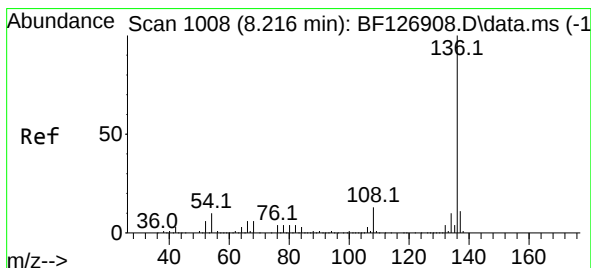
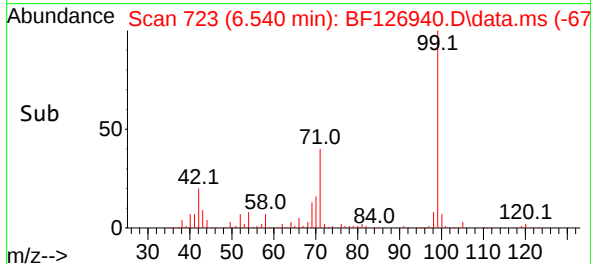
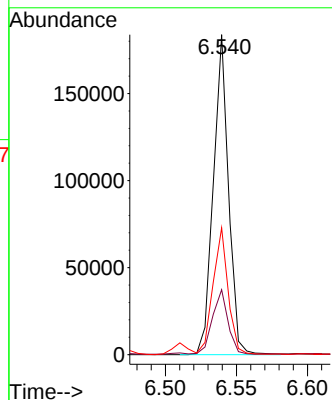
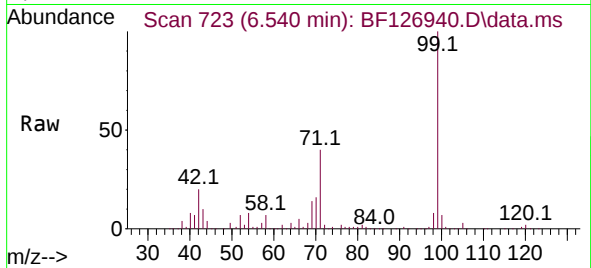




#7
Phenol-d6
Concen: 13.229 ng
RT: 6.540 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

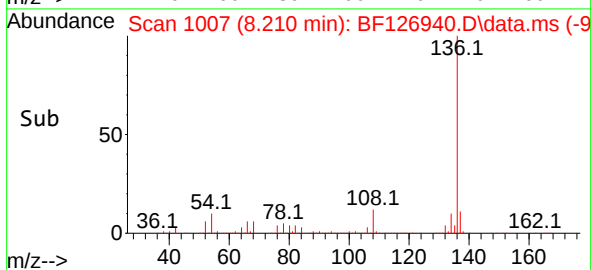
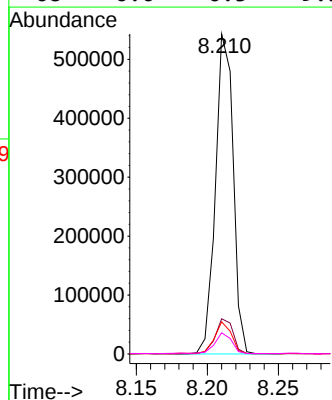
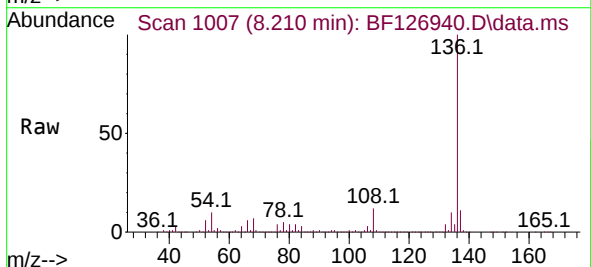
Instrument :
BNA_F
ClientSampleId :
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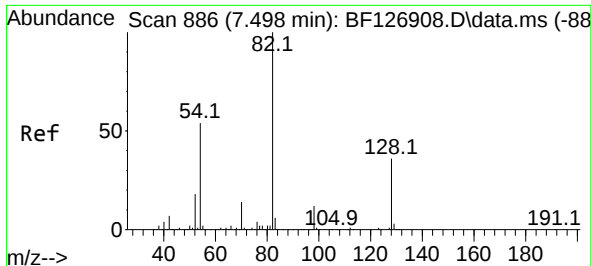
Tgt Ion: 99 Resp: 136354
Ion Ratio Lower Upper
99 100
42 20.3 14.2 21.4
71 39.7 24.3 36.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion: 136 Resp: 470486
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 10.0 7.8 11.6
68 6.6 6.3 9.5

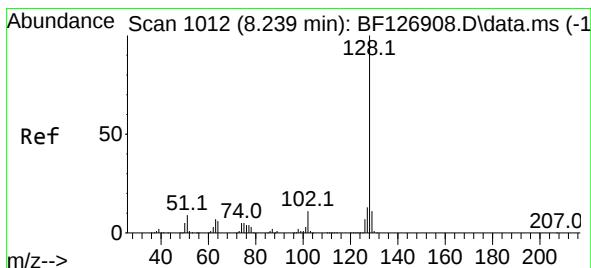
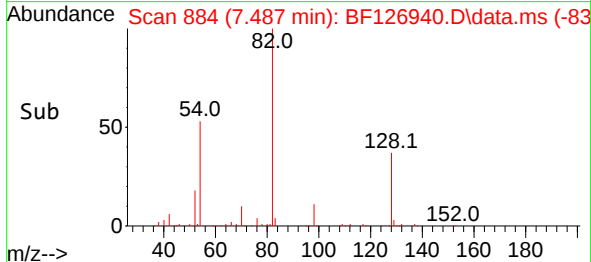
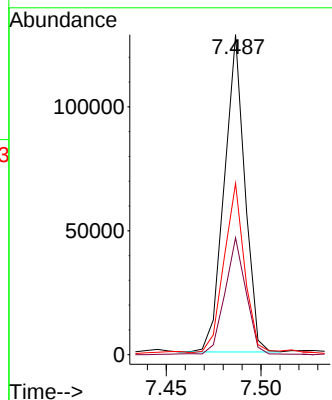
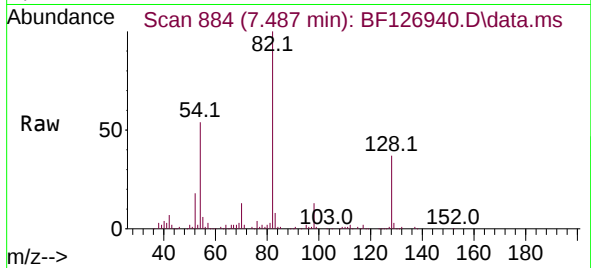




#23
Nitrobenzene-d5
Concen: 9.243 ng
RT: 7.487 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

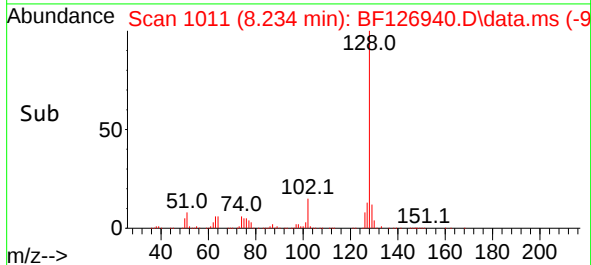
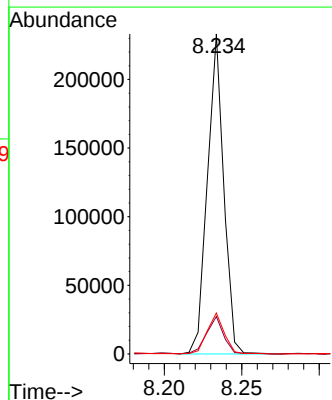
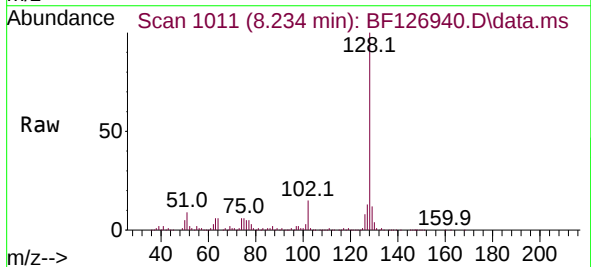
Instrument :
BNA_F
ClientSampleId :
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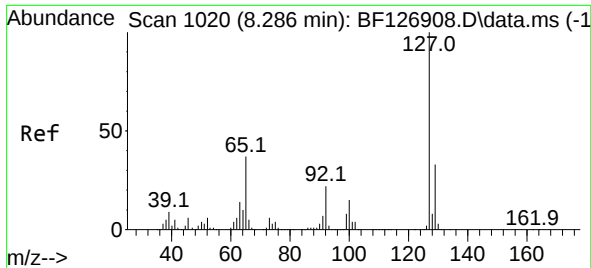
Tgt Ion: 82 Resp: 96339
Ion Ratio Lower Upper
82 100
128 36.6 32.7 49.1
54 53.5 41.7 62.5



#31
Naphthalene
Concen: 6.965 ng
RT: 8.234 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion: 128 Resp: 171053
Ion Ratio Lower Upper
128 100
129 11.7 8.6 13.0
127 12.8 10.3 15.5

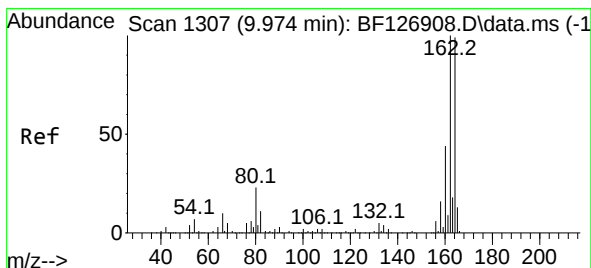
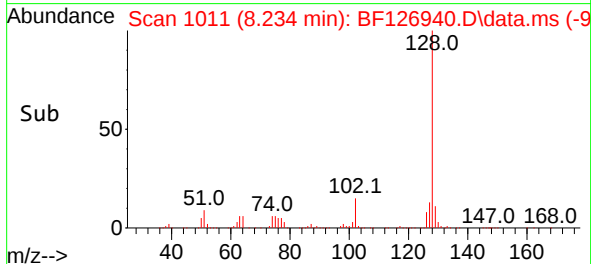
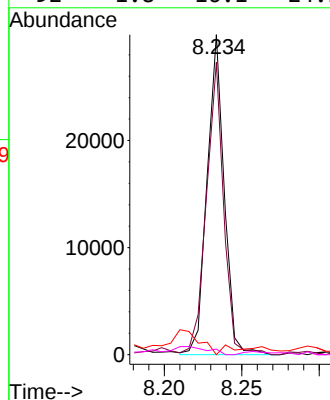
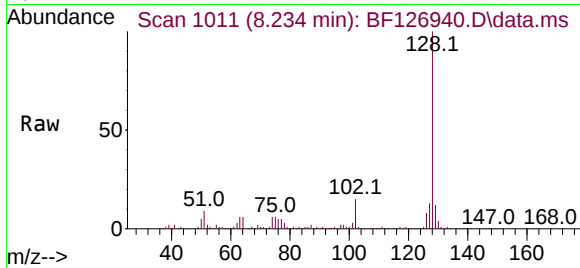




#33
4-Chloroaniline
Concen: 2.377 ng
RT: 8.234 min Scan# 1011
Delta R.T. -0.053 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

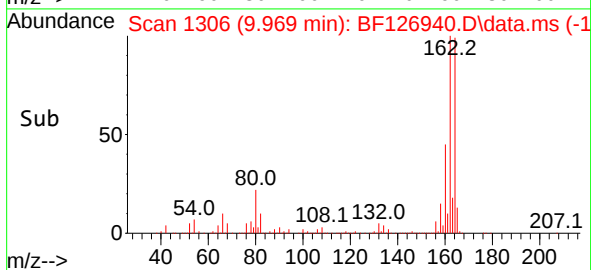
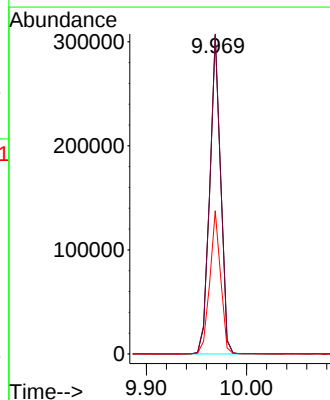
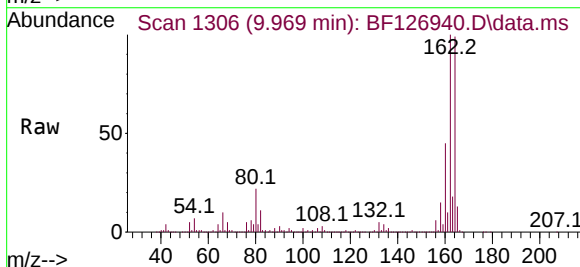
Instrument :
BNA_F
ClientSampleId :
NE-SURFICIAL-SOIL

Tgt Ion:	127	Resp:	22974
Ion	Ratio	Lower	Upper
127	100		
129	91.4	26.5	39.7#
65	0.0	26.6	39.8#
92	1.8	16.1	24.1#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.969 min Scan# 1306
Delta R.T. -0.006 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion:	164	Resp:	232379
Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.4	122.0
160	45.0	36.6	54.8





#42

2,4,6-Tribromophenol

Concen: 7.674 ng

RT: 10.757 min Scan# 1442

Delta R.T. -0.012 min

Lab File: BF126940.D

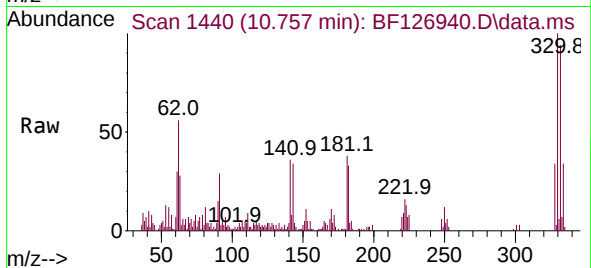
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Instrument :

BNA_F

ClientSampleId :

NE-SURFICIAL-SOIL



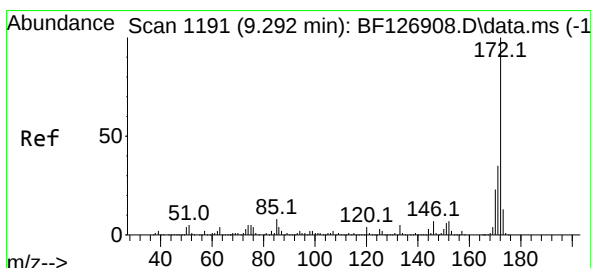
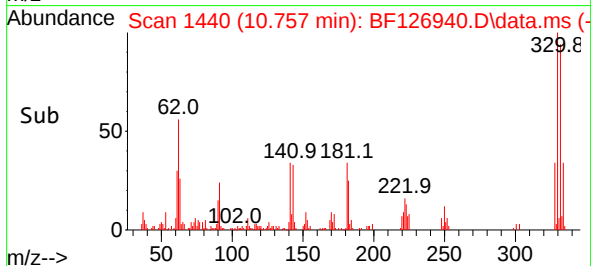
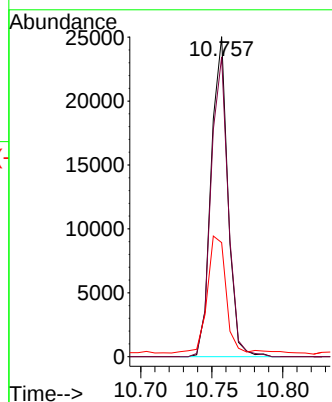
Tgt Ion:330 Resp: 20532

Ion Ratio Lower Upper

330 100

332 96.6 76.0 114.0

141 43.9 30.1 45.1



#45

2-Fluorobiphenyl

Concen: 10.465 ng

RT: 9.281 min Scan# 1189

Delta R.T. -0.012 min

Lab File: BF126940.D

Acq: 17 Feb 2022 21:42

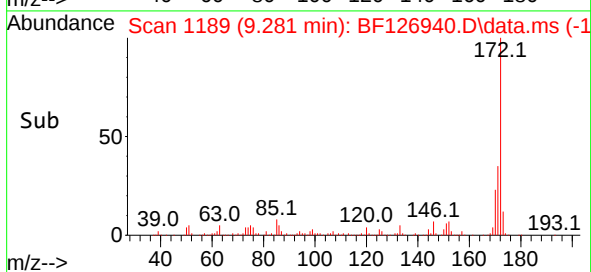
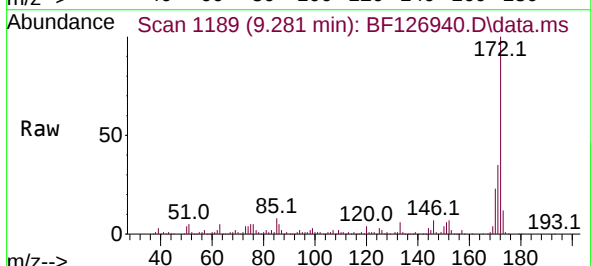
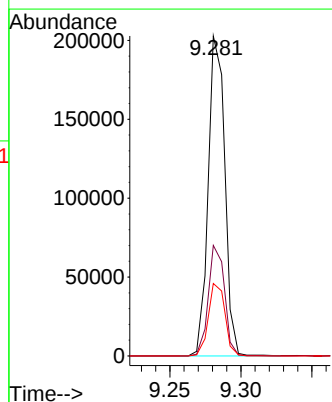
Tgt Ion:172 Resp: 165197

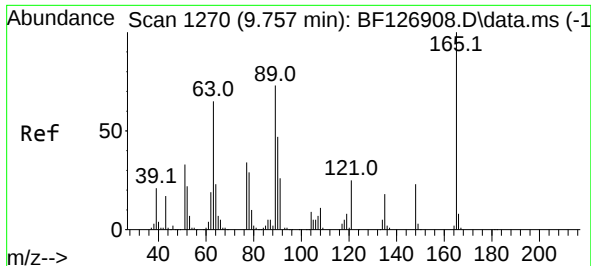
Ion Ratio Lower Upper

172 100

171 34.5 28.3 42.5

170 22.6 19.0 28.6

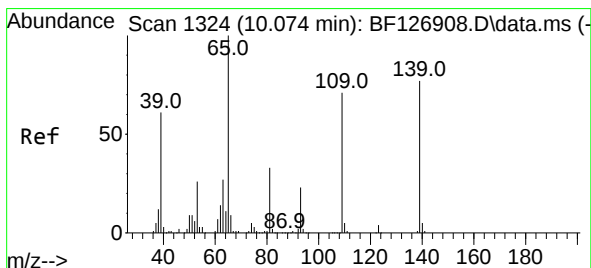
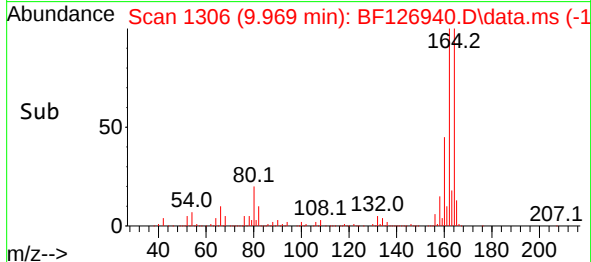
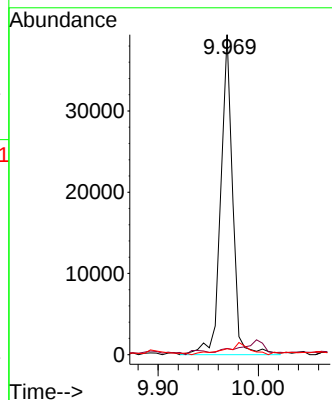
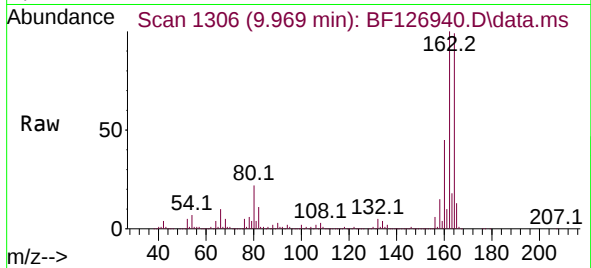




#51
2,6-Dinitrotoluene
Concen: 9.629 ng
RT: 9.969 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

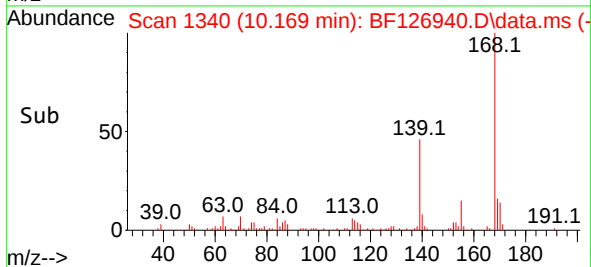
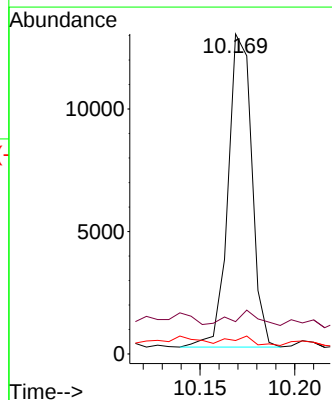
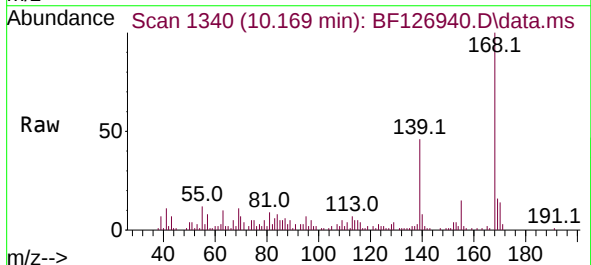
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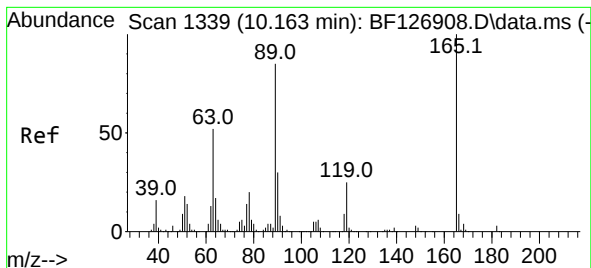
Tgt Ion:165 Resp: 32539
Ion Ratio Lower Upper
165 100
63 1.9 48.4 72.6#
89 1.9 50.5 75.7#



#56
4-Nitrophenol
Concen: 3.661 ng
RT: 10.169 min Scan# 1340
Delta R.T. 0.094 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion:139 Resp: 11170
Ion Ratio Lower Upper
139 100
109 10.1 44.1 84.1#
65 4.2 85.5 125.5#

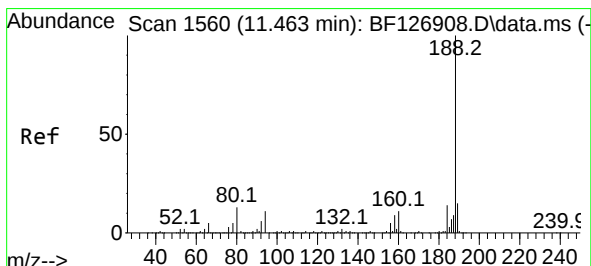
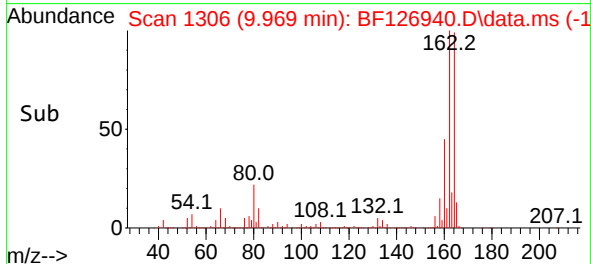
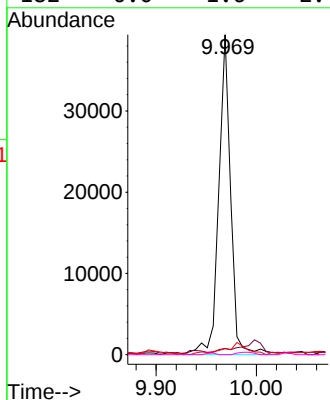
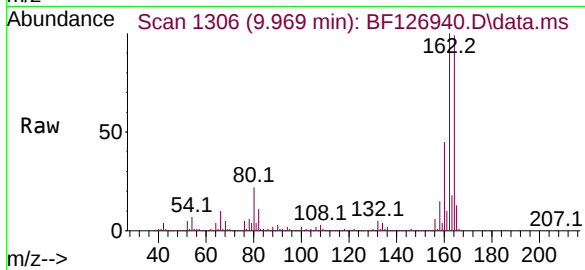




#57
2,4-Dinitrotoluene
Concen: 7.121 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.194 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

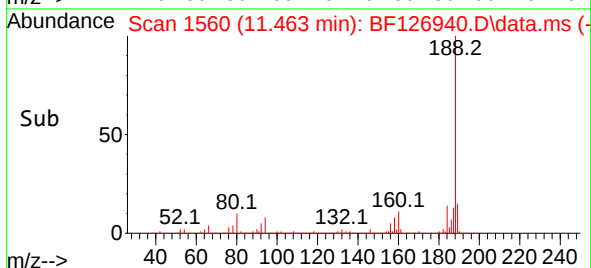
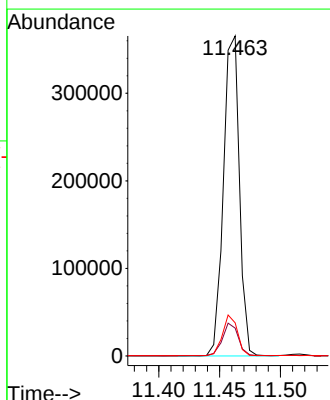
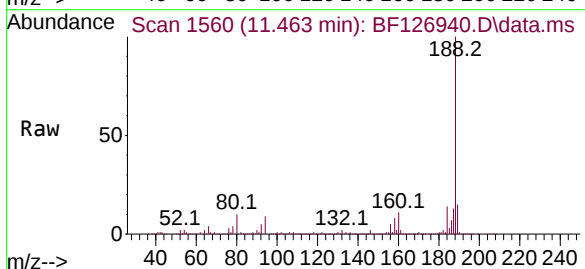
Instrument :
BNA_F
ClientSampleId :
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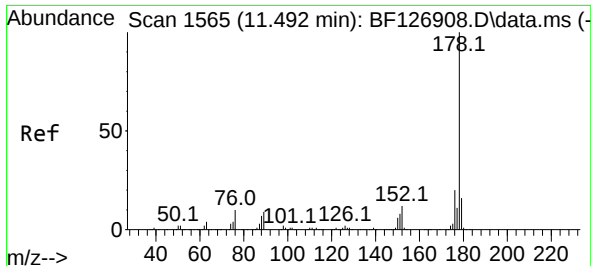
Tgt Ion:	165	Resp:	32539
Ion Ratio	Lower	Upper	
165	100		
63	1.9	43.0	64.6#
89	1.9	71.0	106.4#
182	0.0	1.6	2.4#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.463 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion:	188	Resp:	334915
Ion Ratio	Lower	Upper	
188	100		
94	8.7	10.1	15.1#
80	10.4	11.8	17.6#

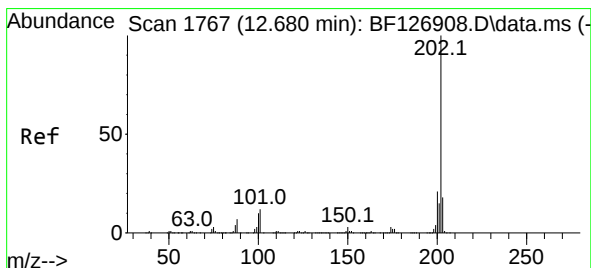
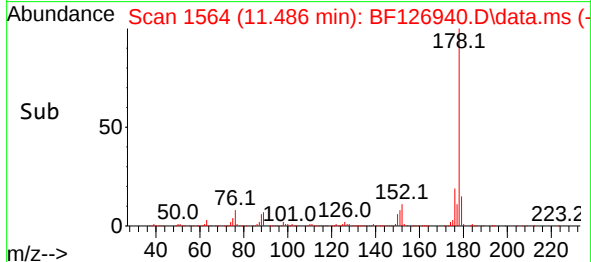
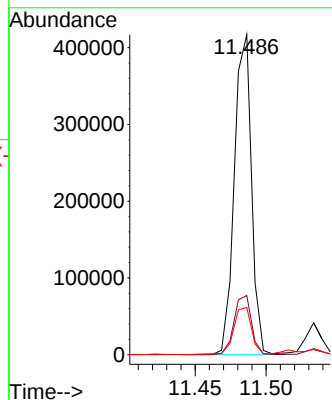
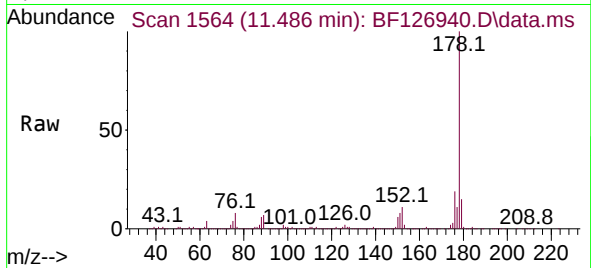




#71
Phenanthrene
Concen: 18.605 ng
RT: 11.486 min Scan# 1564
Delta R.T. -0.006 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

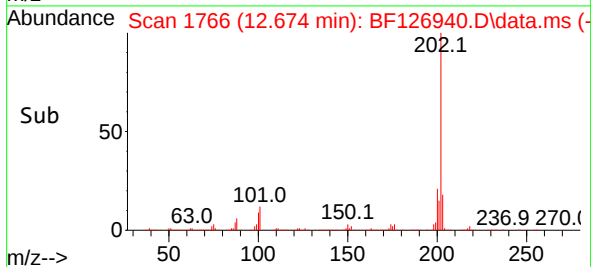
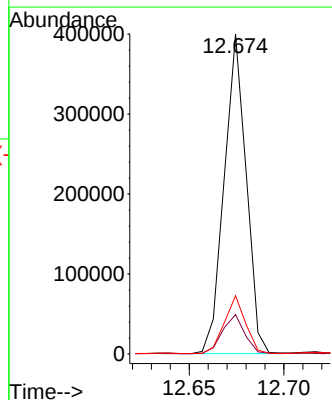
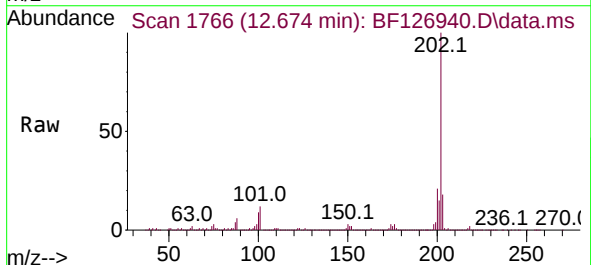
Instrument :
BNA_F
ClientSampleId :
NE-SURFICIAL-SOIL

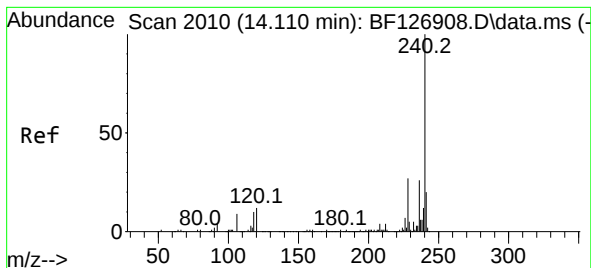
Tgt Ion:178 Resp: 348771
Ion Ratio Lower Upper
178 100
176 18.5 15.7 23.5
179 14.8 12.3 18.5



#75
Fluoranthene
Concen: 18.137 ng
RT: 12.674 min Scan# 1766
Delta R.T. -0.006 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion:202 Resp: 322829
Ion Ratio Lower Upper
202 100
101 12.3 0.0 35.7
203 18.2 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.104 min Scan# 2010

Delta R.T. -0.006 min

Lab File: BF126940.D

Acq: 17 Feb 2022 21:42

Instrument :

BNA_F

ClientSampleId :

NE-SURFICIAL-SOIL

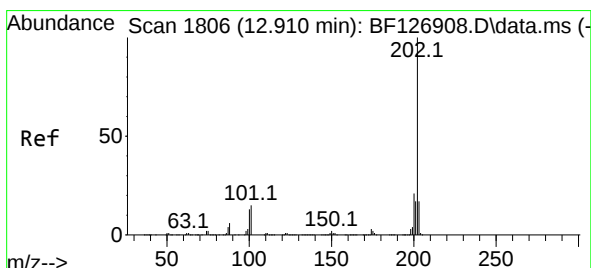
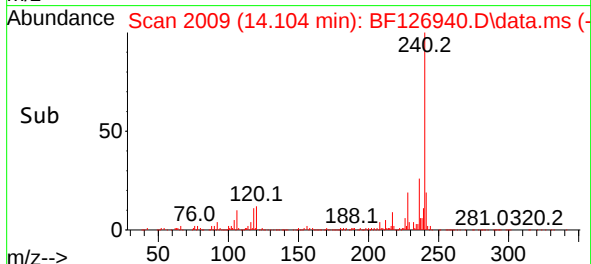
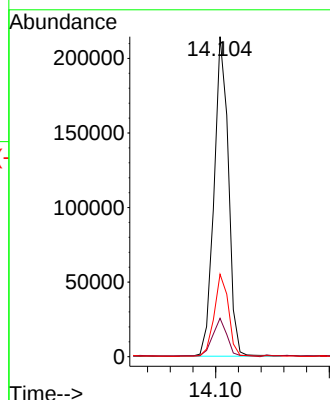
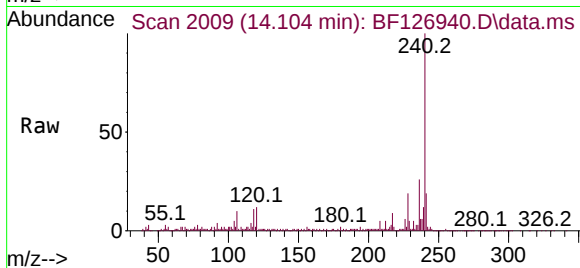
Tgt Ion:240 Resp: 188013

Ion Ratio Lower Upper

240 100

120 12.0 14.4 21.6#

236 25.7 20.5 30.7



#78

Pyrene

Concen: 16.728 ng

RT: 12.904 min Scan# 1805

Delta R.T. -0.006 min

Lab File: BF126940.D

Acq: 17 Feb 2022 21:42

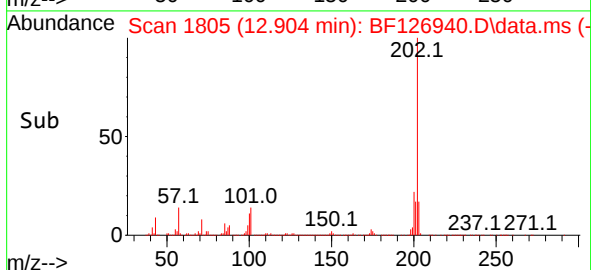
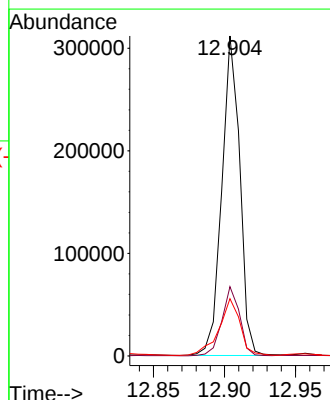
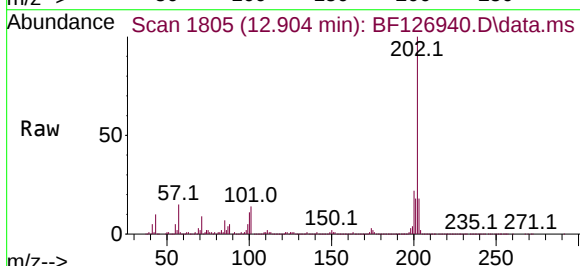
Tgt Ion:202 Resp: 273240

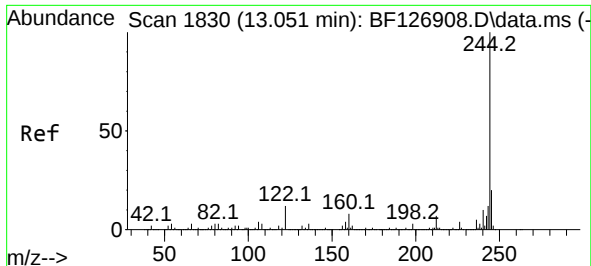
Ion Ratio Lower Upper

202 100

200 21.7 16.6 24.8

203 17.9 13.8 20.8

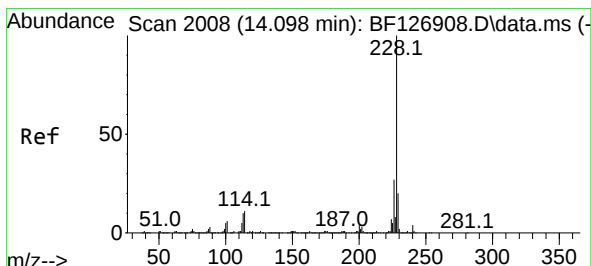
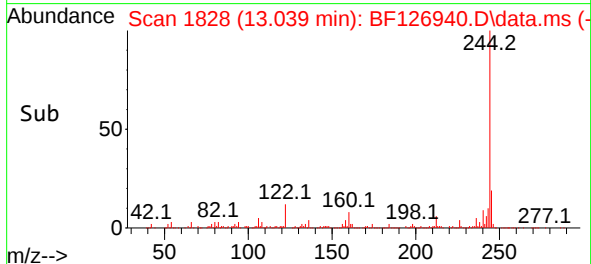
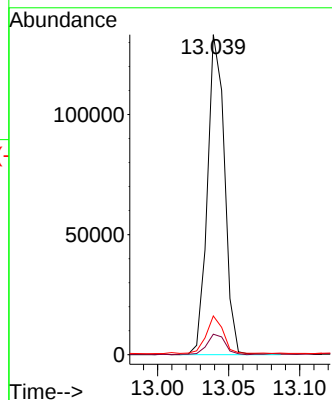
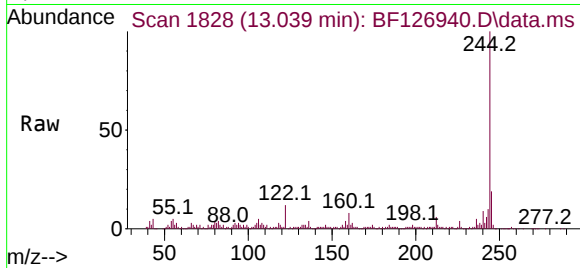




#79
 Terphenyl-d14
 Concen: 8.760 ng
 RT: 13.039 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF126940.D
 Acq: 17 Feb 2022 21:42

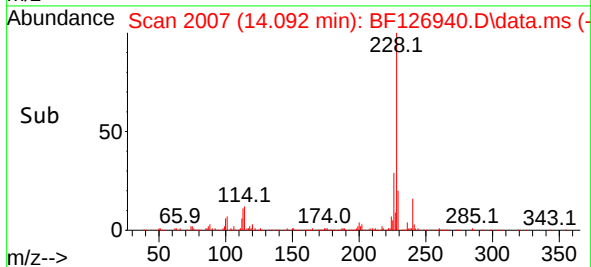
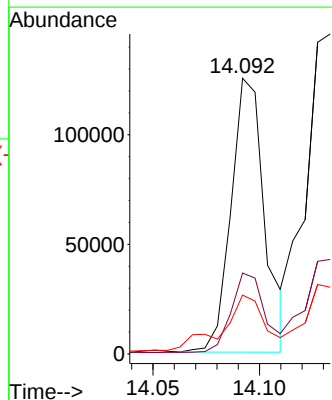
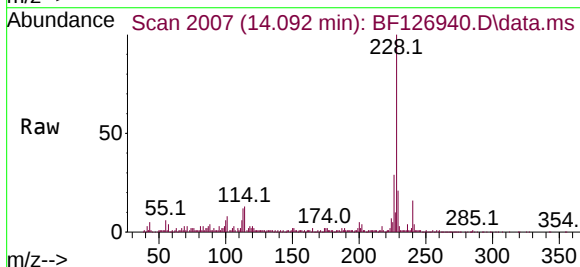
Instrument :
 BNA_F
 ClientSampleId :
 NE-SURFICIAL-SOIL

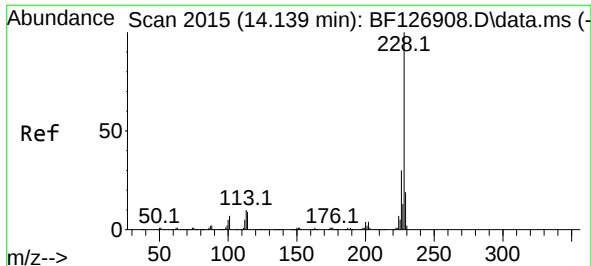
Tgt Ion:244 Resp: 112034
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.0 7.4
 122 12.1 13.3 19.9#



#81
 Benzo(a)anthracene
 Concen: 10.808 ng
 RT: 14.092 min Scan# 2007
 Delta R.T. -0.006 min
 Lab File: BF126940.D
 Acq: 17 Feb 2022 21:42

Tgt Ion:228 Resp: 136995
 Ion Ratio Lower Upper
 228 100
 226 29.4 21.4 32.0
 229 21.4 15.4 23.2

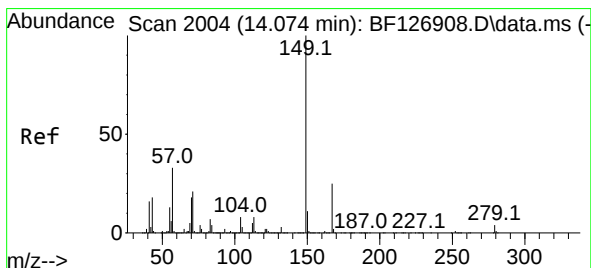
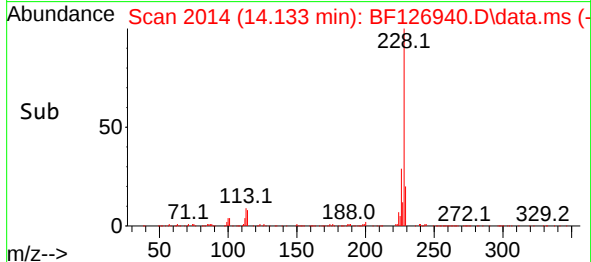
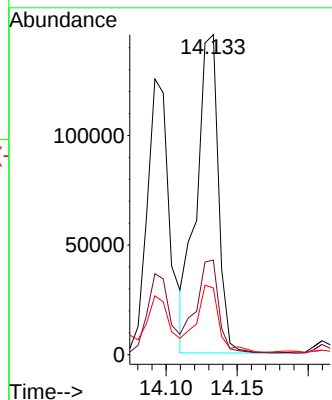
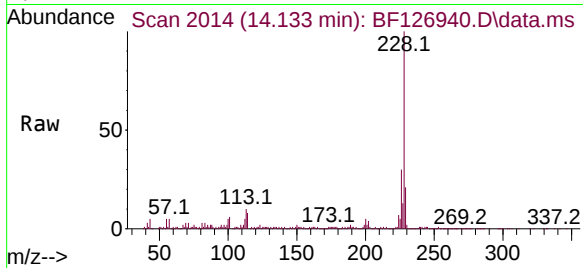




#83
Chrysene
Concen: 13.148 ng
RT: 14.133 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

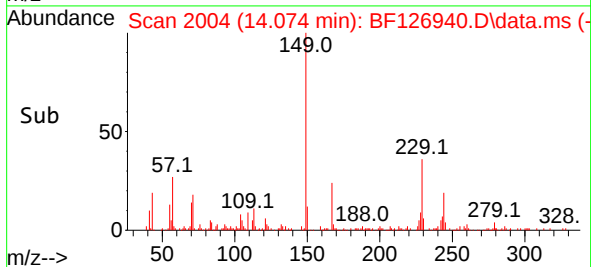
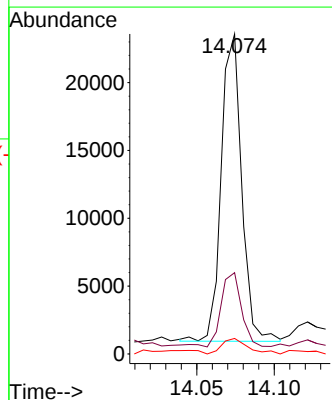
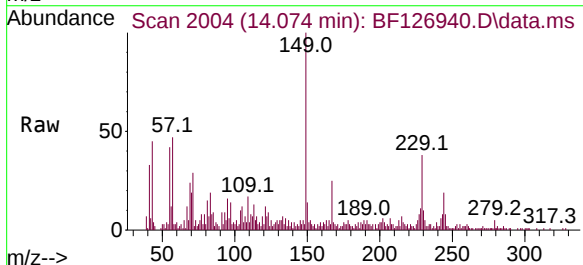
Instrument :
BNA_F
ClientSampleId :
NE-SURFICIAL-SOIL

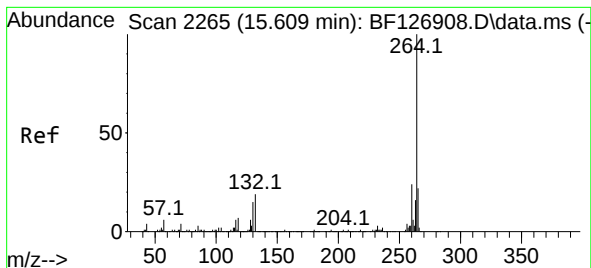
Tgt Ion:228 Resp: 156720
Ion Ratio Lower Upper
228 100
226 29.5 23.7 35.5
229 20.8 15.5 23.3



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.045 ng
RT: 14.074 min Scan# 2004
Delta R.T. 0.000 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion:149 Resp: 20761
Ion Ratio Lower Upper
149 100
167 25.4 21.4 32.2
279 4.8 2.4 3.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.610 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF126940.D

Acq: 17 Feb 2022 21:42

Instrument :

BNA_F

ClientSampleId :

NE-SURFICIAL-SOIL

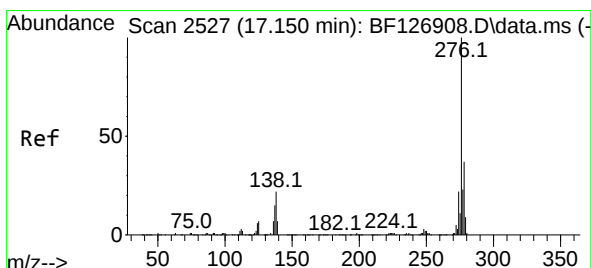
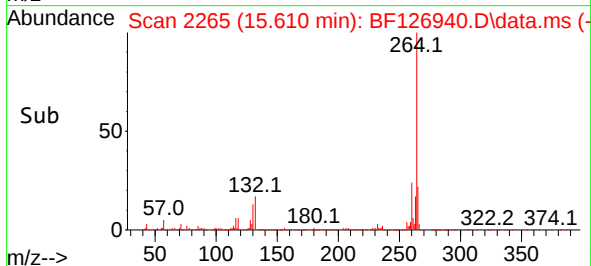
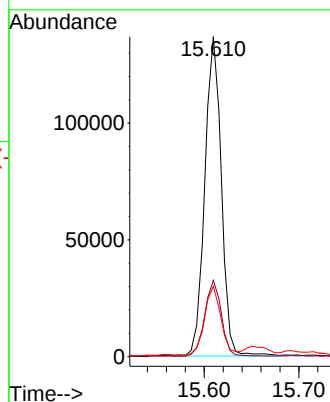
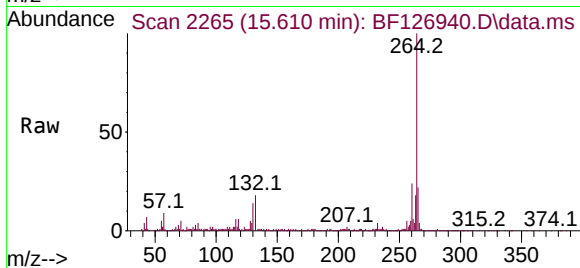
Tgt Ion:264 Resp: 165673

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

265 22.1 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.009 ng

RT: 17.133 min Scan# 2524

Delta R.T. -0.017 min

Lab File: BF126940.D

Acq: 17 Feb 2022 21:42

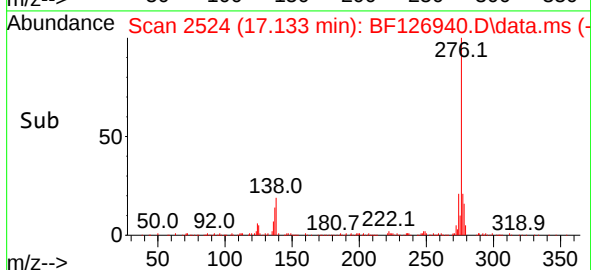
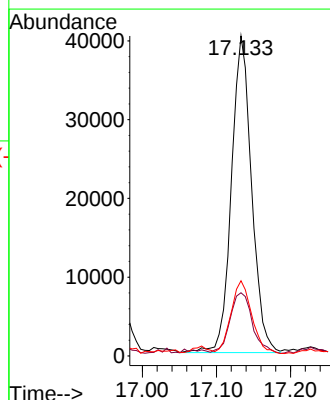
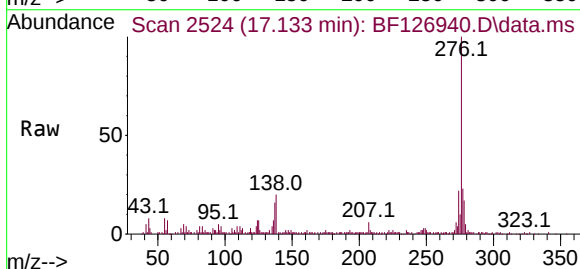
Tgt Ion:276 Resp: 76140

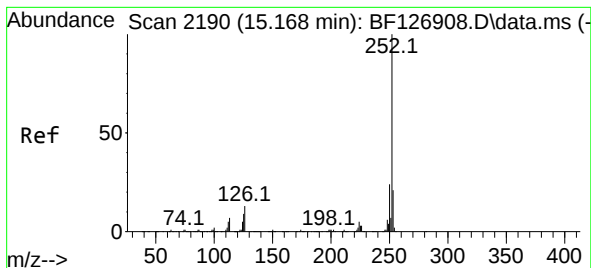
Ion Ratio Lower Upper

276 100

138 21.2 29.2 43.8#

277 23.6 19.8 29.8





#88

Benzo(b)fluoranthene

Concen: 26.911 ng

RT: 15.163 min Scan# 2189

Delta R.T. -0.006 min

Lab File: BF126940.D

Acq: 17 Feb 2022 21:42

Instrument :

BNA_F

ClientSampleId :

NE-SURFICIAL-SOIL

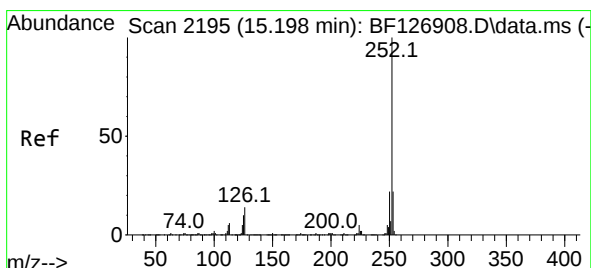
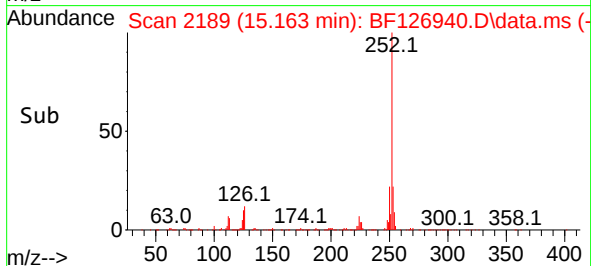
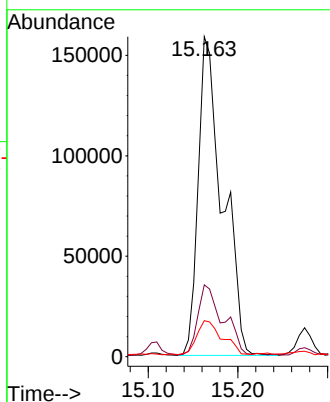
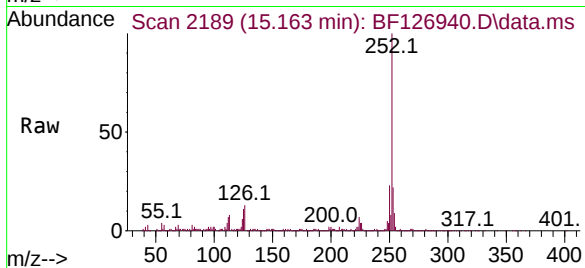
Tgt Ion:252 Resp: 299439

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.8

125 11.3 12.4 18.6#



#89

Benzo(k)fluoranthene

Concen: 27.900 ng

RT: 15.163 min Scan# 2189

Delta R.T. -0.035 min

Lab File: BF126940.D

Acq: 17 Feb 2022 21:42

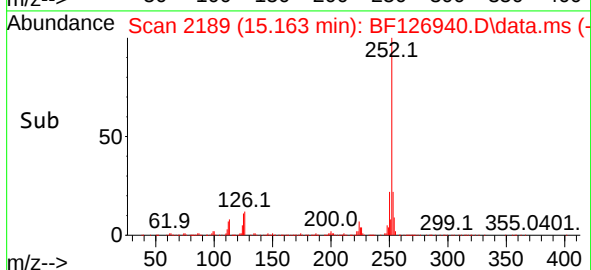
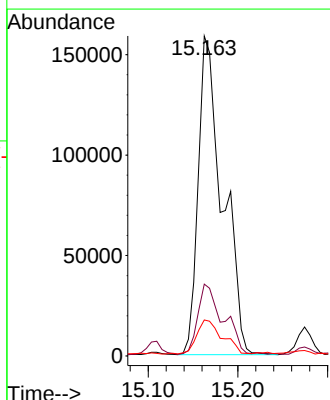
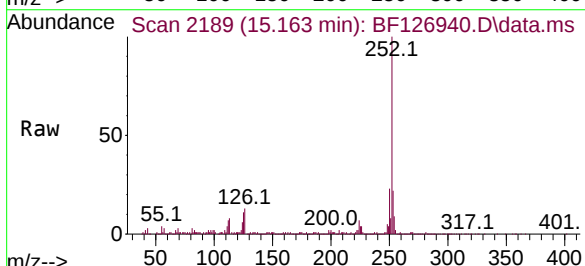
Tgt Ion:252 Resp: 299439

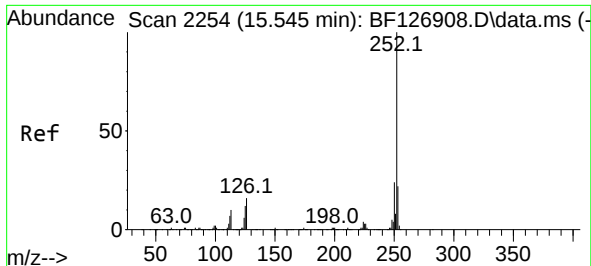
Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

125 11.3 11.8 17.6#

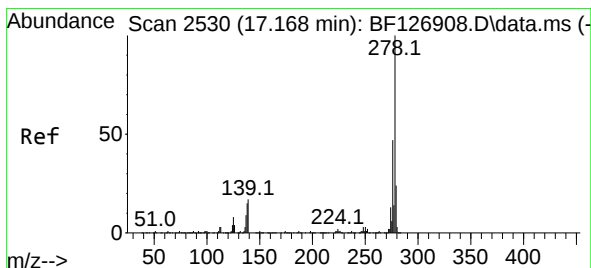
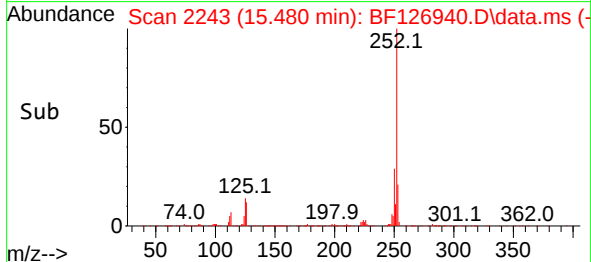
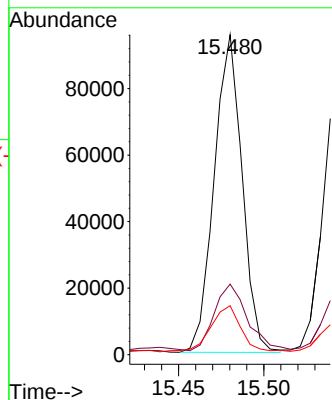
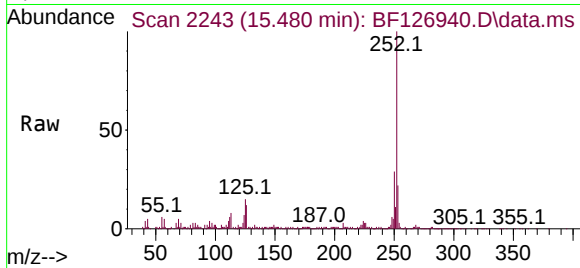




#90
Benzo(a)pyrene
Concen: 12.500 ng
RT: 15.480 min Scan# 21
Delta R.T. -0.065 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

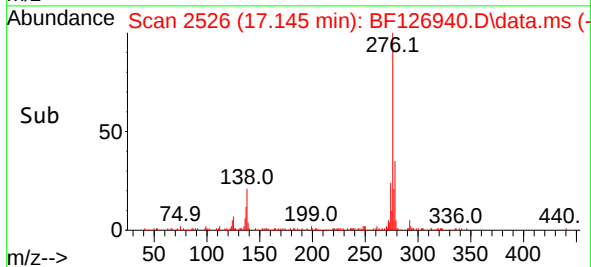
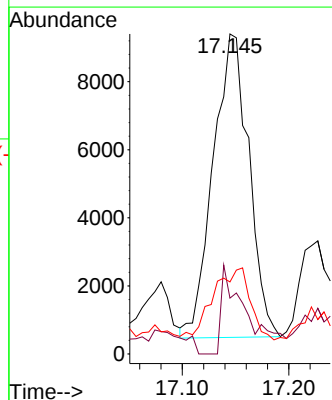
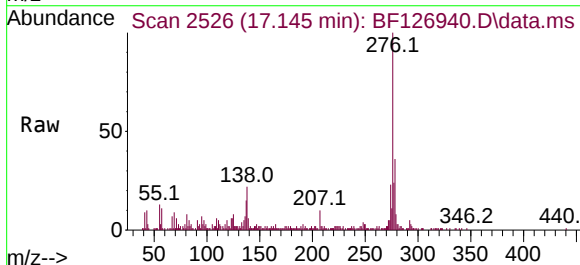
Instrument :
BNA_F
ClientSampleId :
NE-SURFICIAL-SOIL

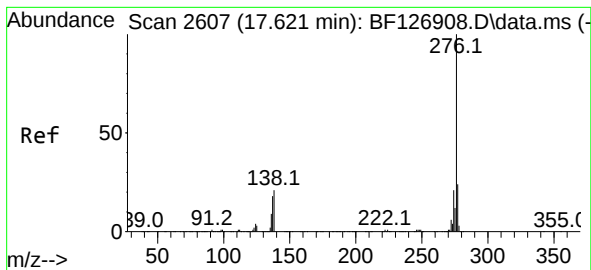
Tgt Ion:252 Resp: 108640
Ion Ratio Lower Upper
252 100
253 22.1 17.1 25.7
125 15.3 13.0 19.6



#91
Dibenzo(a,h)anthracene
Concen: 2.311 ng
RT: 17.145 min Scan# 2526
Delta R.T. -0.023 min
Lab File: BF126940.D
Acq: 17 Feb 2022 21:42

Tgt Ion:278 Resp: 20766
Ion Ratio Lower Upper
278 100
139 17.4 18.0 27.0#
279 22.5 18.6 27.8





#92

Benzo(g,h,i)perylene

Concen: 7.653 ng

RT: 17.604 min Scan# 20

Delta R.T. -0.017 min

Lab File: BF126940.D

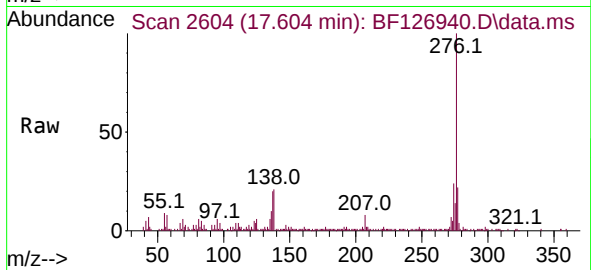
Acq: 17 Feb 2022 21:42

Instrument :

BNA_F

ClientSampleId :

NE-SURFICIAL-SOIL



Tgt Ion:276 Resp: 67785

Ion Ratio Lower Upper

276 100

277 22.1 18.5 27.7

138 21.5 25.9 38.9#

