

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082417\
 Data File : BF098030.D
 Acq On : 25 Aug 2017 4:54
 Operator : SJ/JU
 Sample : I4934-10 20X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB1-SOIL-0-2.0

Quant Time: Aug 25 05:18:10 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

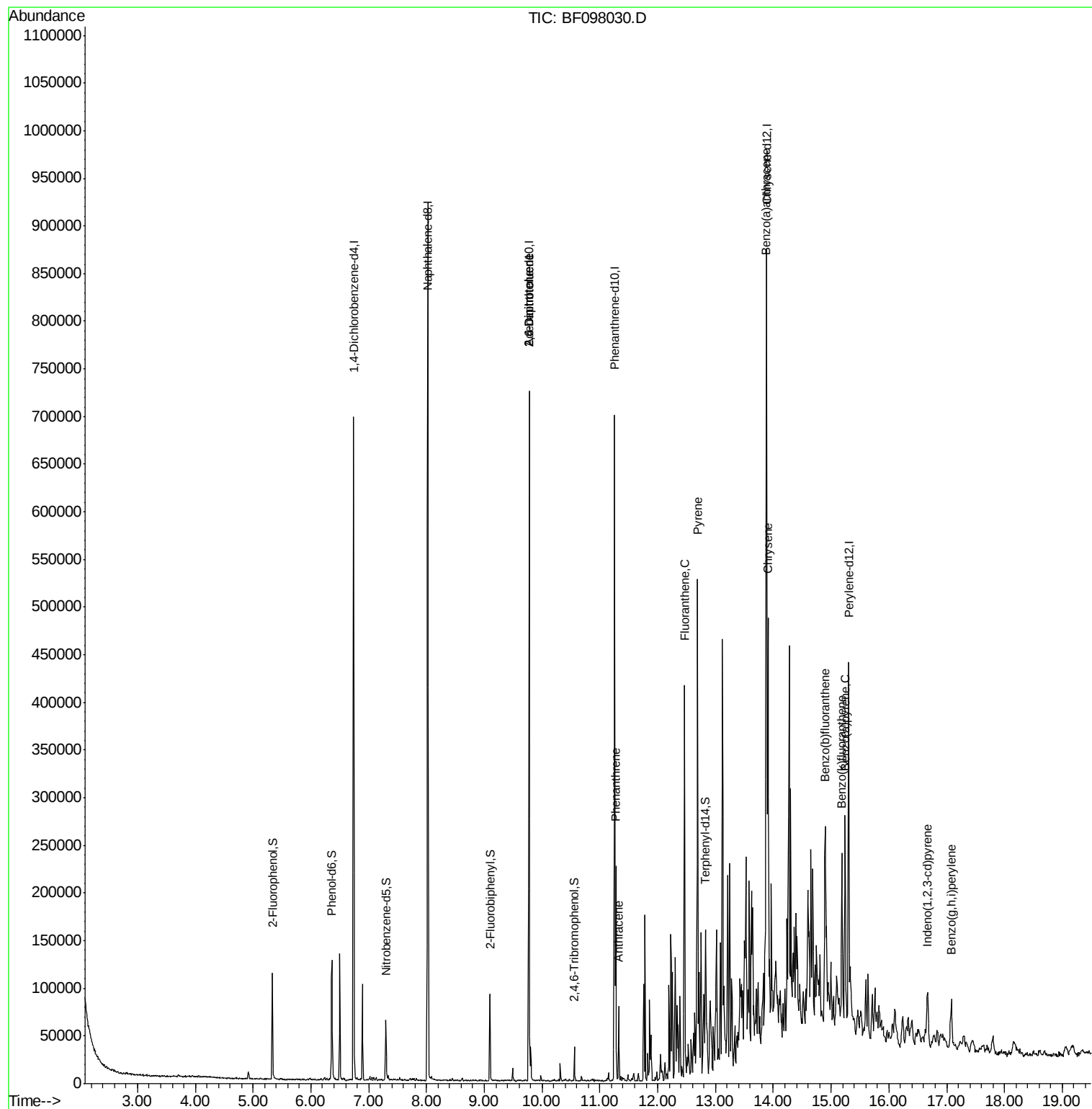
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	98424	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	371071	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	143277	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	240676	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	220147	20.00	ng	-0.01
86) Perylene-d12	15.30	264	159407	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	32762	5.06	ng	-0.02
7) Phenol-d6	6.36	99	44367	5.05	ng	-0.02
23) Nitrobenzene-d5	7.30	82	22106	3.24	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	3700	2.98	ng	-0.02
44) 2-Fluorobiphenyl	9.10	172	32639	3.35	ng	-0.01
78) Terphenyl-d14	12.83	244	23347	2.21	ng	-0.02
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	9.77	165	18064	8.64	ng	# 31
56) 2,4-Dinitrotoluene	9.77	165	18064	6.89	ng	# 31
70) Phenanthrene	11.27	178	74814	5.83	ng	98
71) Anthracene	11.33	178	26525	2.04	ng	99
74) Fluoranthene	12.46	202	150046	11.21	ng	97
77) Pyrene	12.69	202	211328	11.74	ng	98
80) Benzo(a)anthracene	13.87	228	151708	11.50	ng	# 94
82) Chrysene	13.91	228	146738	11.18	ng	# 91
85) Indeno(1,2,3-cd)pyrene	16.67	276	33176	3.44	ng	95
87) Benzo(b)fluoranthene	14.90	252	135203	13.46	ng	98
88) Benzo(k)fluoranthene	15.19	252	73579	7.79	ng	95
89) Benzo(a)pyrene	15.24	252	94287	10.60	ng	95
91) Benzo(a,h,i)perylene	17.08	276	38362	5.08	ng	95

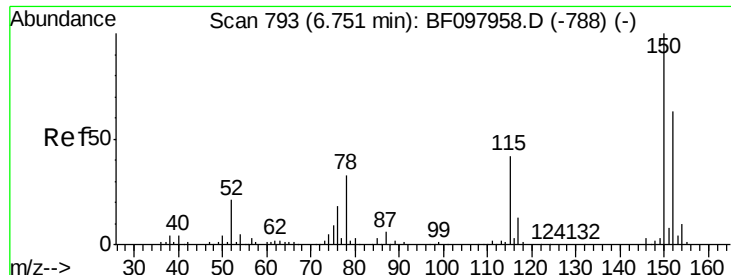
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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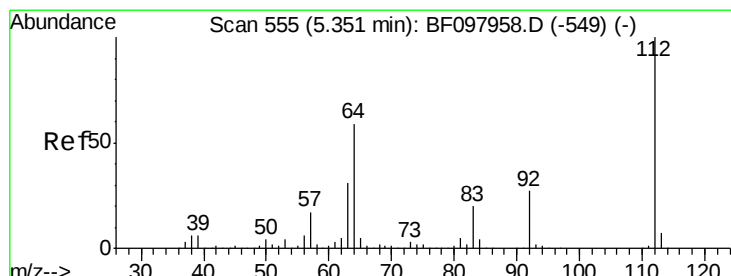
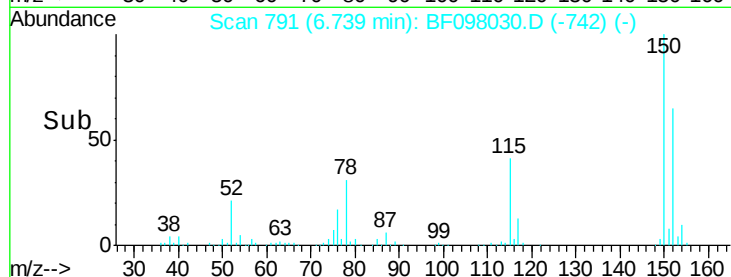
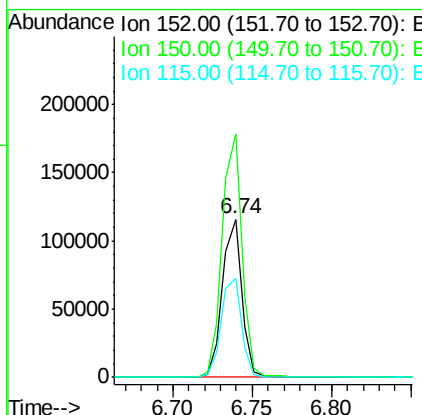
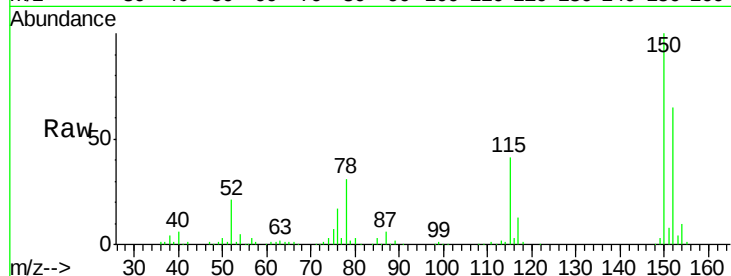


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

Instrument :
BNA_F
ClientSampleId :
SB1-SOIL-0-2.0

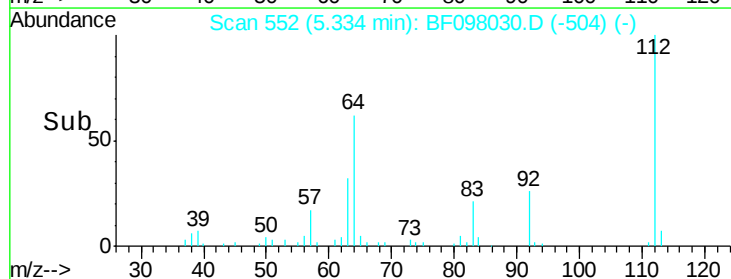
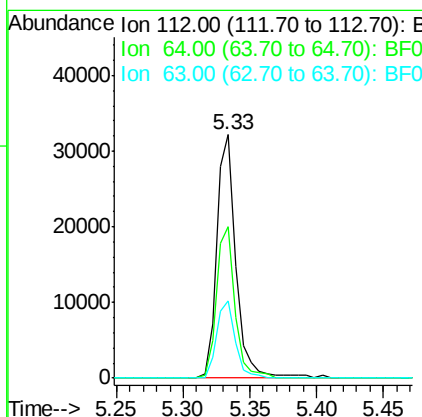
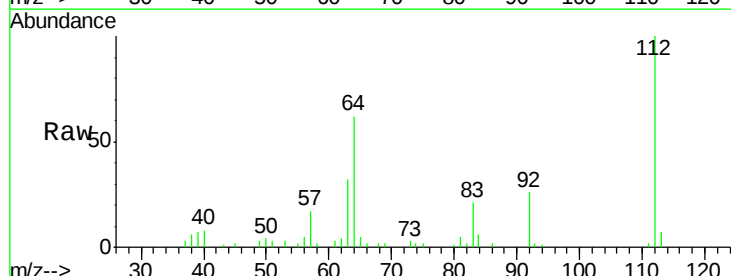
Tot Ion:152 Resp: 98424
Ion Ratio Lower Upper
152 100
150 154.3 126.2 189.2
115 62.8 52.2 78.2

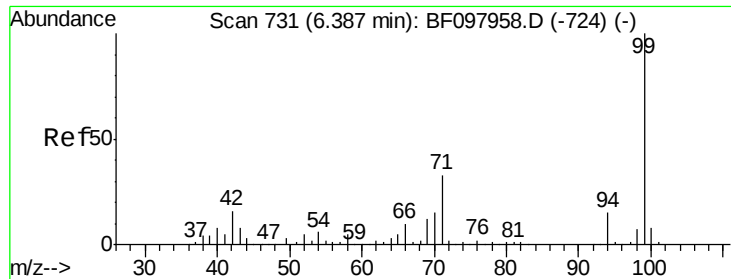


#5

2-Fluorophenol
Concen: 5.06 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

Tgt Ion:112 Resp: 32762
Ion Ratio Lower Upper
112 100
64 62.3 46.0 69.0
63 31.9 23.4 35.0





#7

Phenol-d6

Concen: 5.05 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

Instrument :

BNA_F

ClientSampleId :

SB1-SOIL-0-2.0

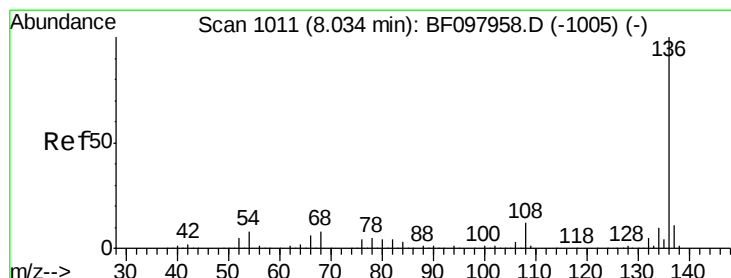
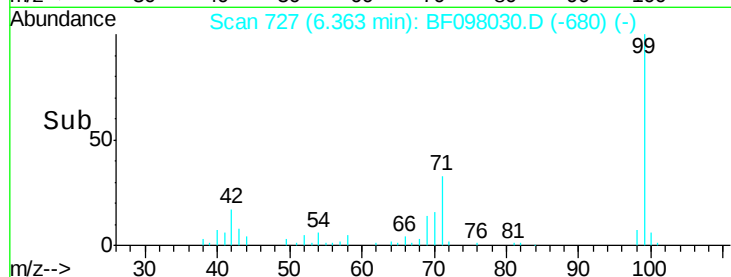
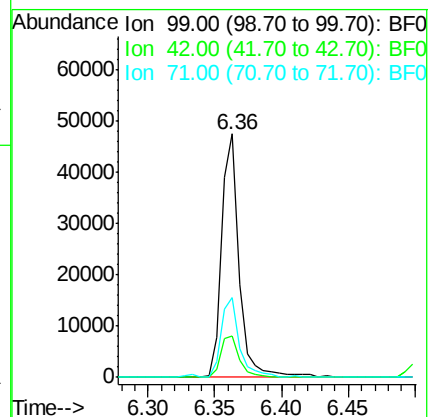
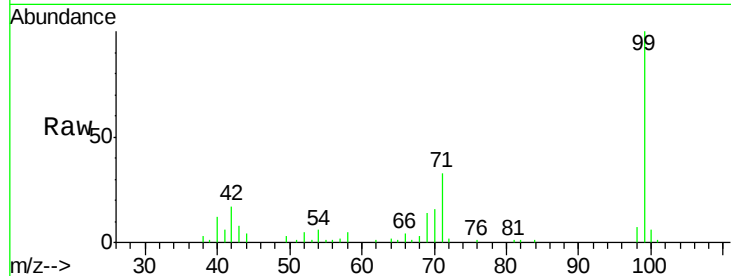
Tot Ion: 99 Resp: 44367

Ion Ratio Lower Upper

99 100

42 17.2 13.5 20.3

71 32.6 24.5 36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

Tgt Ion: 136 Resp: 371071

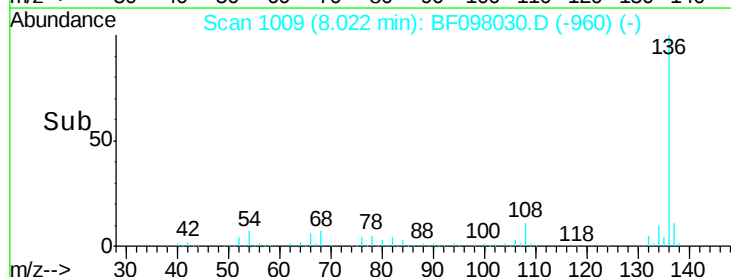
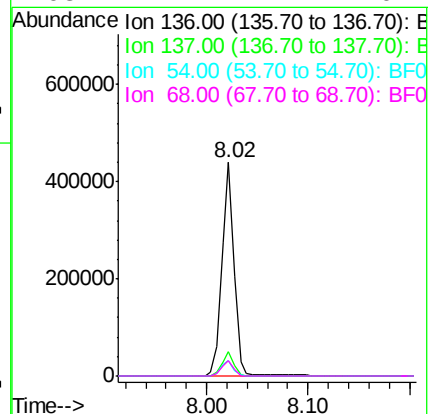
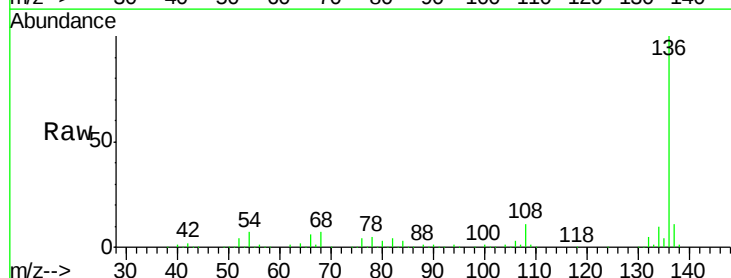
Ion Ratio Lower Upper

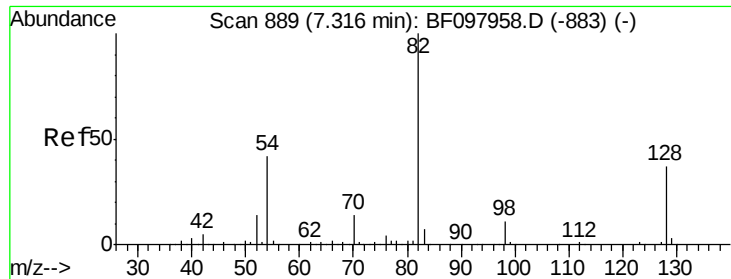
136 100

137 11.2 8.5 12.7

54 7.3 4.9 7.3

68 7.1 4.1 6.1#

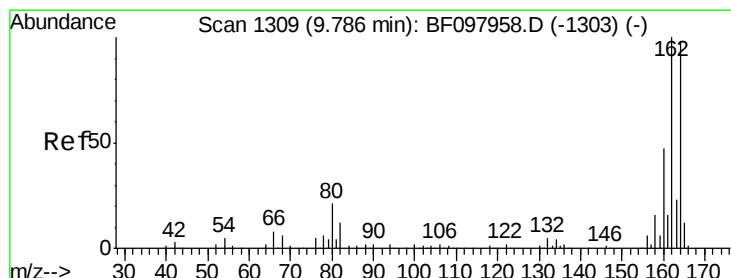
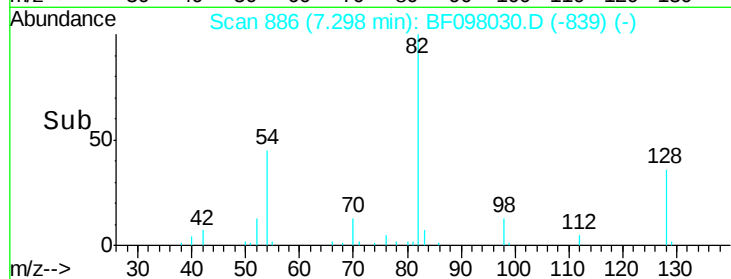
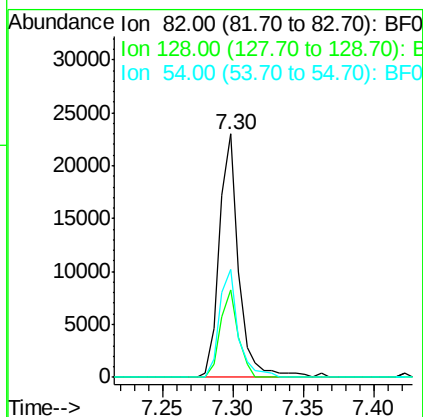
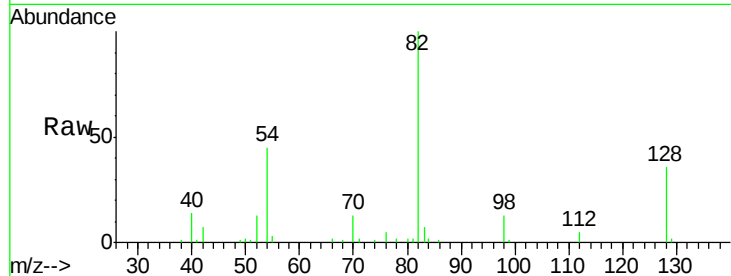




#23
 Nitrobenzene-d5
 Concen: 3.24 ng
 RT: 7.30 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

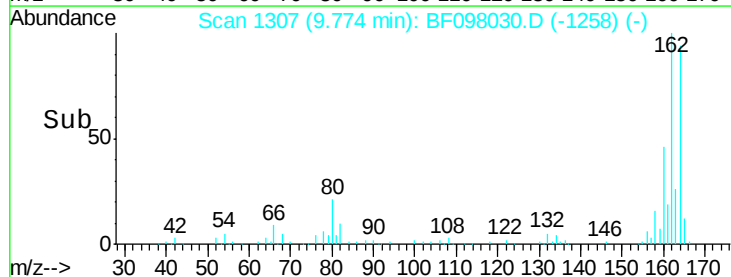
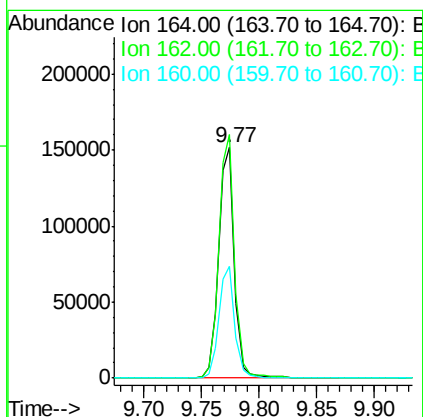
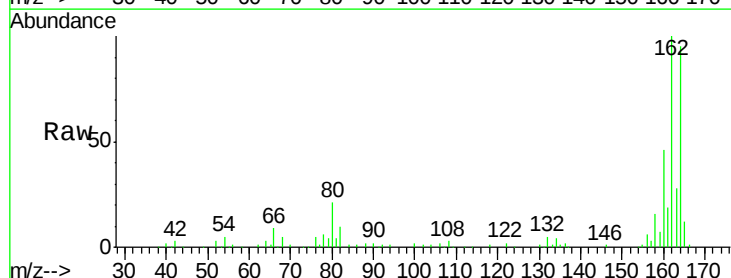
Instrument :
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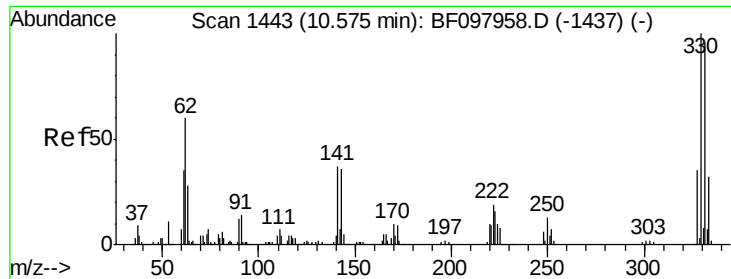
Tot Ion	82	Resp	22106
Ion Ratio	100	Lower	Upper
128	36.0	34.0	51.0
54	44.5	42.2	63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Tgt Ion	164	Resp	143277
Ion Ratio	100	Lower	Upper
162	105.5	82.6	123.8
160	48.7	36.2	54.2

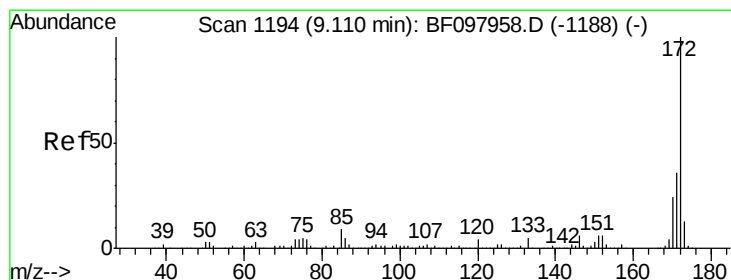
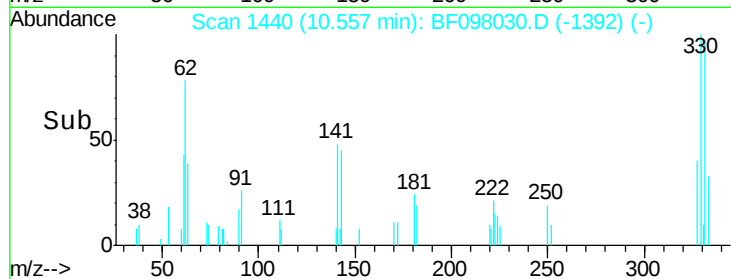
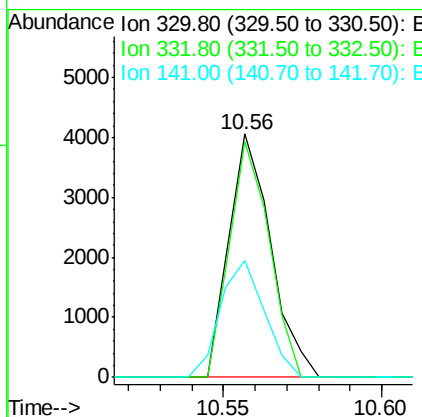
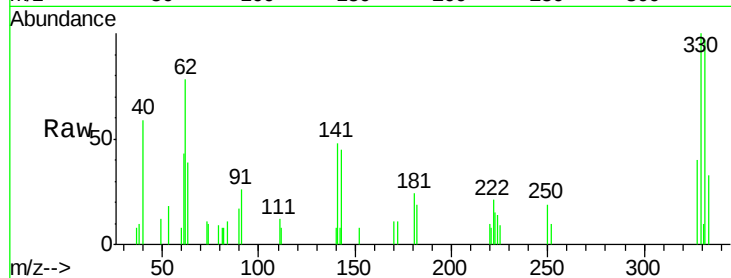




#41
 2,4,6-Tribromophenol
 Concen: 2.98 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.02 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

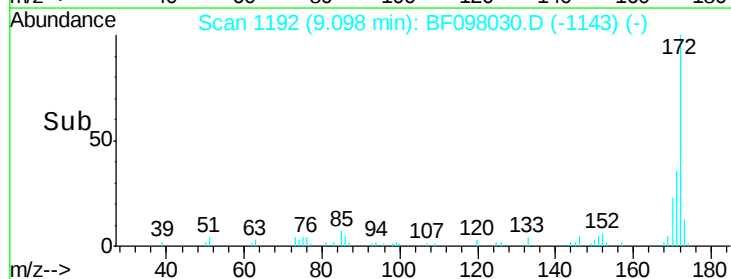
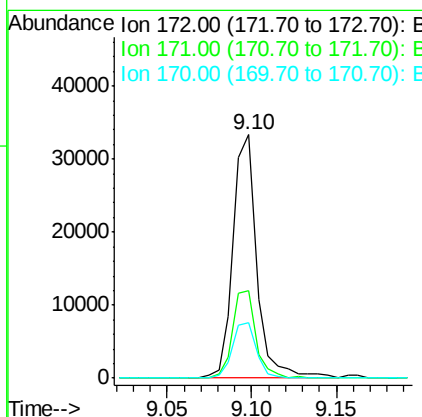
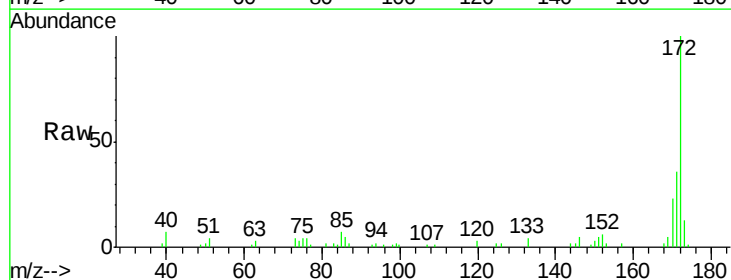
Instrument :
 BNA_F
 ClientSampleId :
 SB1-SOIL-0-2.0

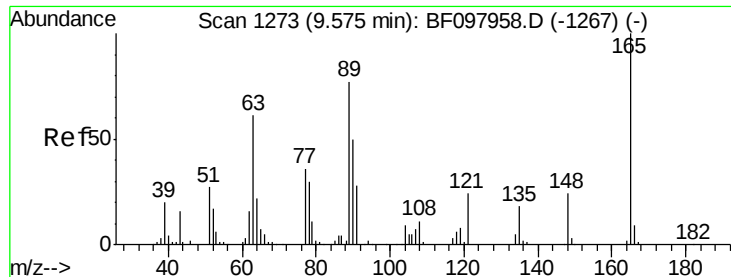
Tot Ion	Ratio	Lower	Upper
330	100		
332	91.7	76.6	115.0
141	50.7	31.4	47.2#



#44
 2-Fluorobiphenyl
 Concen: 3.35 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.6	44.4
170	22.6	19.8	29.8

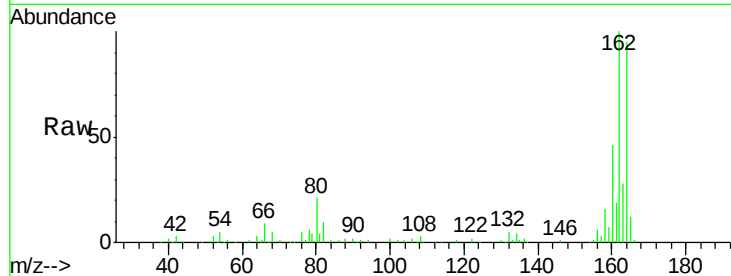




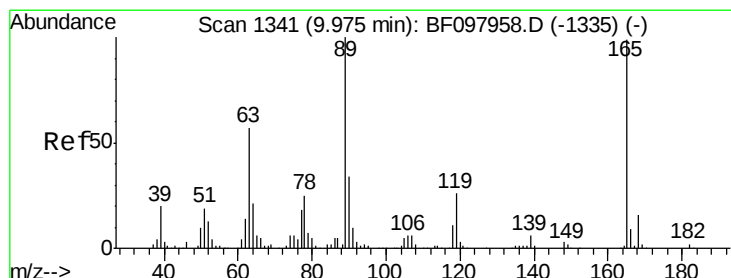
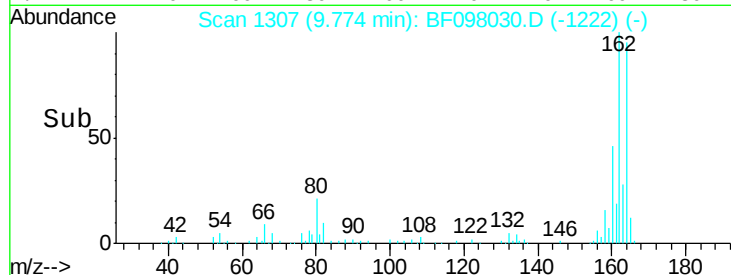
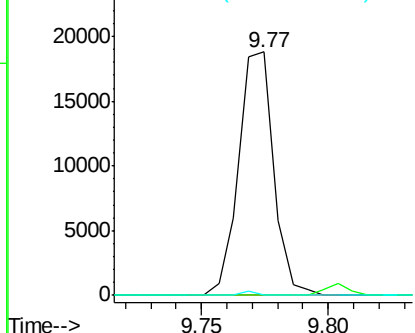
#50
 2,6-Dinitrotoluene
 Concen: 8.64 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. 0.20 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Instrument :
 BNA_F
 ClientSampleId :
 SB1-SOIL-0-2.0

Tot Ion:	165	Resp:	18064
Ion Ratio	Lower	Upper	
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#

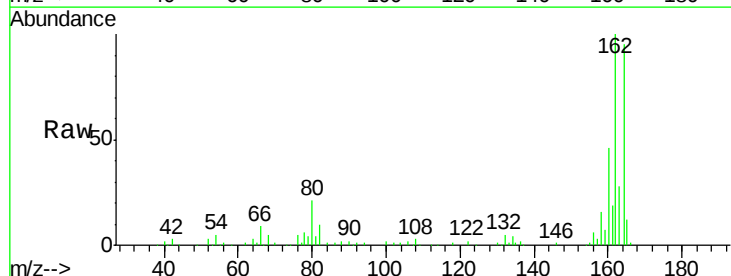


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

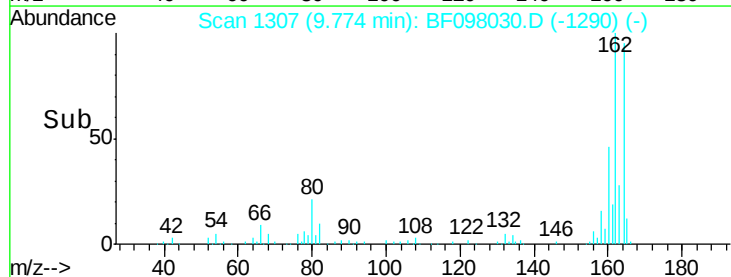
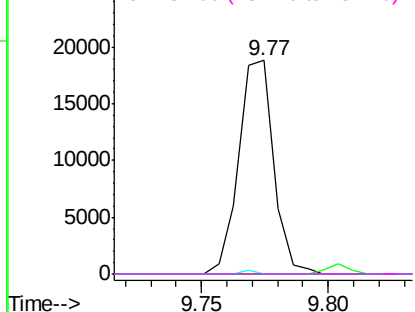


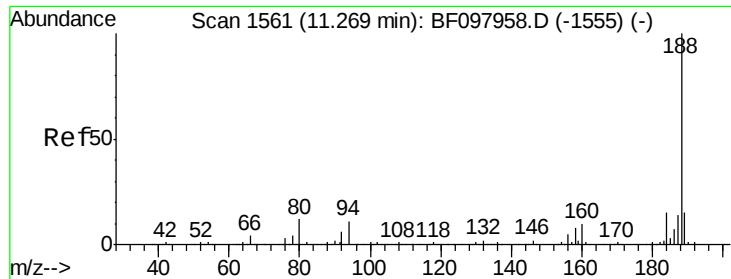
#56
 2,4-Dinitrotoluene
 Concen: 6.89 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.20 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Tgt Ion:	165	Resp:	18064
Ion Ratio	Lower	Upper	
165	100		
63	0.0	25.4	38.0#
89	0.0	46.4	69.6#
182	0.0	1.8	2.6#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

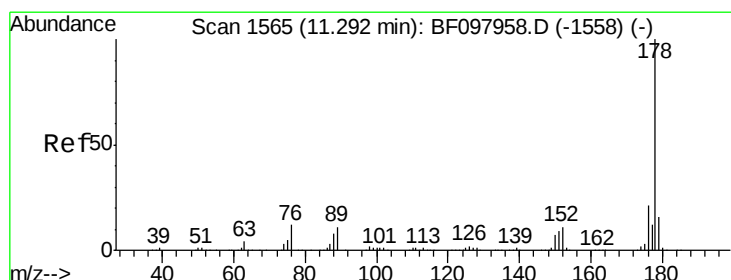
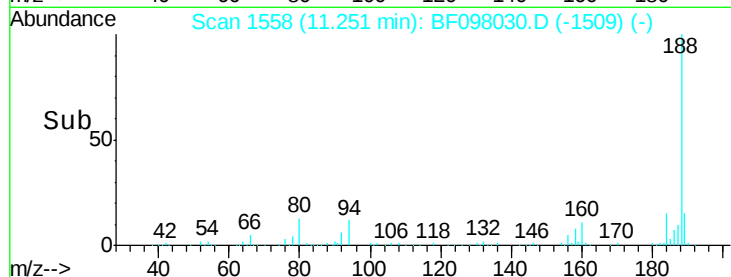
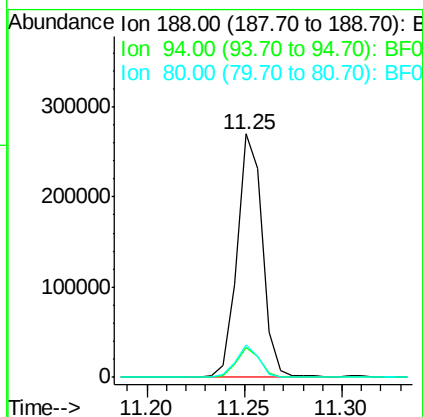
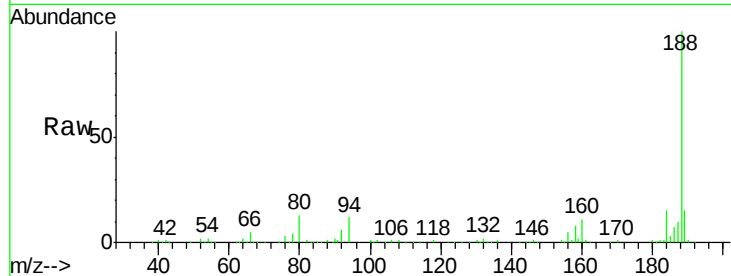




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

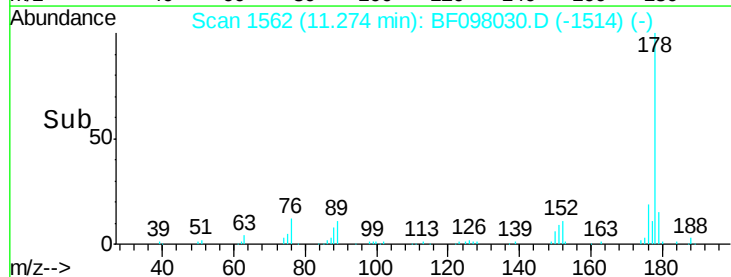
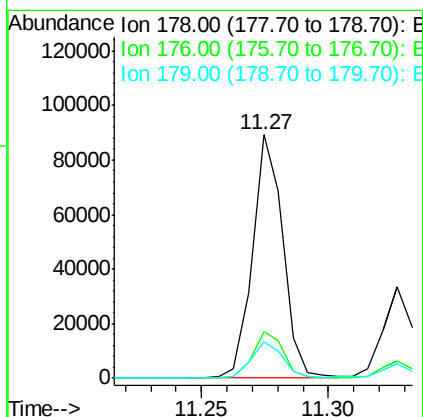
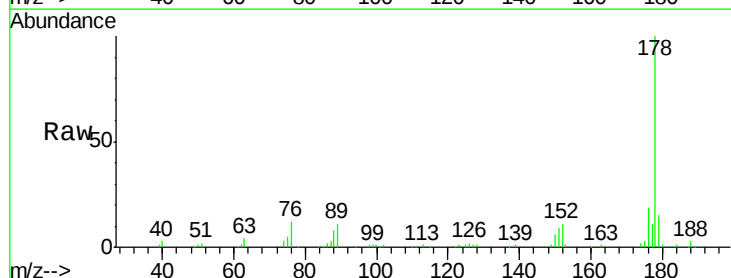
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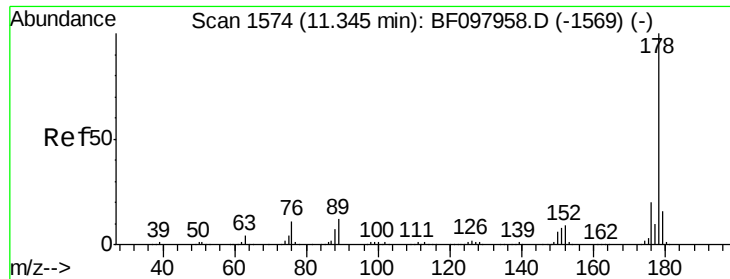
Tot Ion:188 Resp: 240676
Ion Ratio Lower Upper
188 100
94 12.4 9.4 14.2
80 13.2 10.2 15.2



#70
Phenanthrene
Concen: 5.83 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.02 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

Tgt Ion:178 Resp: 74814
Ion Ratio Lower Upper
178 100
176 19.3 16.2 24.4
179 15.0 12.6 19.0

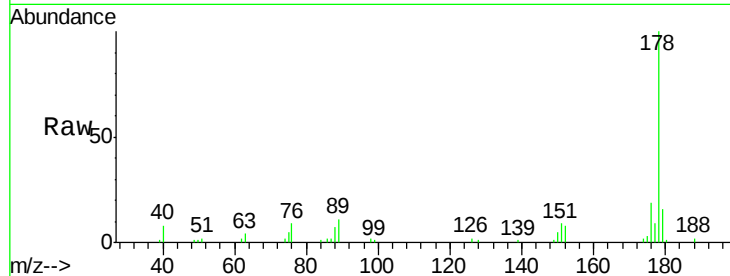




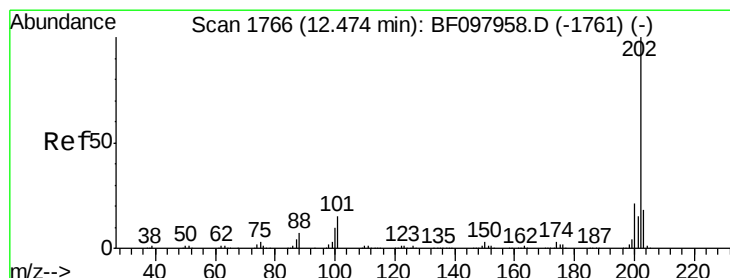
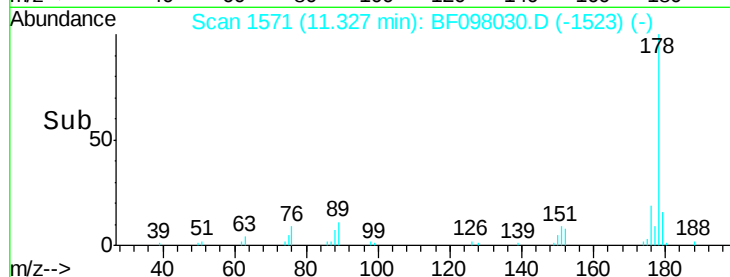
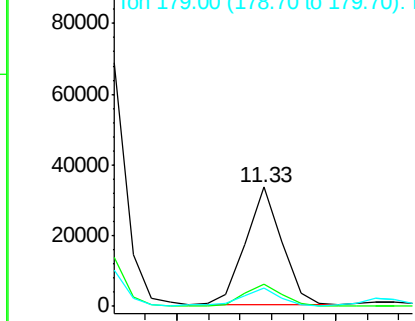
#71
 Anthracene
 Concen: 2.04 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Instrument :
 BNA_F
 ClientSampleId :
 SB1-SOIL-0-2.0

Tot Ion:178 Resp: 26525
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.8 23.8
 179 15.9 12.7 19.1

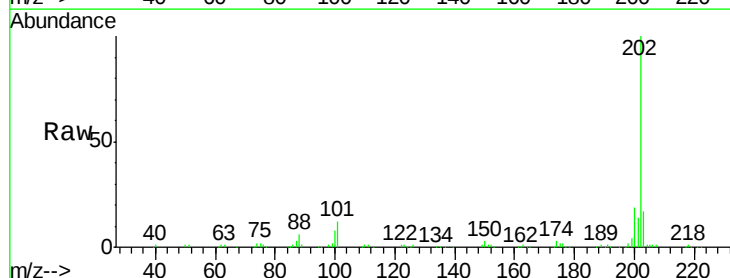


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

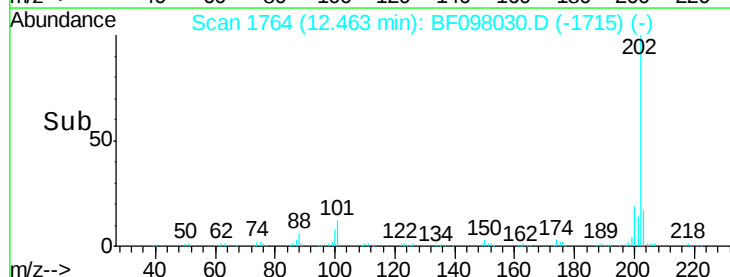
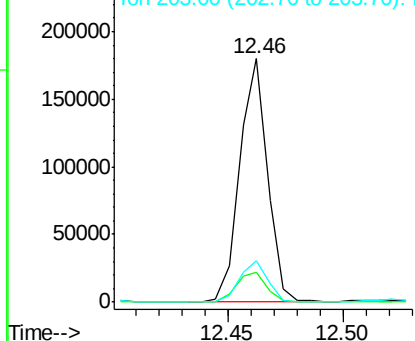


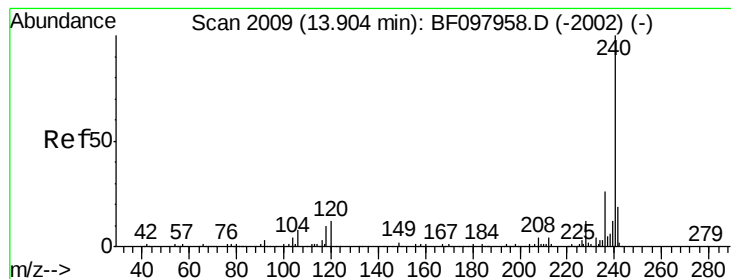
#74
 Fluoranthene
 Concen: 11.21 ng
 RT: 12.46 min Scan# 1764
 Delta R.T. -0.01 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Tgt Ion:202 Resp: 150046
 Ion Ratio Lower Upper
 202 100
 101 12.3 0.0 33.2
 203 16.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

Instrument :

BNA_F

ClientSampleId :

SB1-SOIL-0-2.0

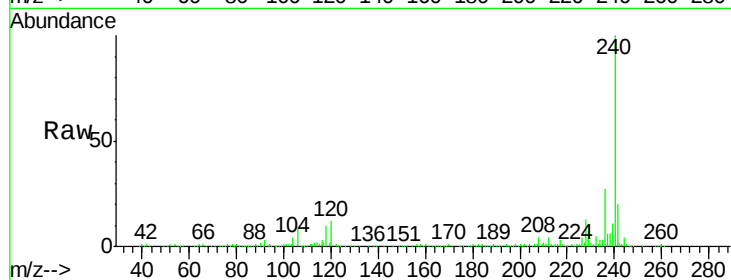
Tot Ion:240 Resp: 220147

Ion Ratio Lower Upper

240 100

120 12.3 5.8 8.8#

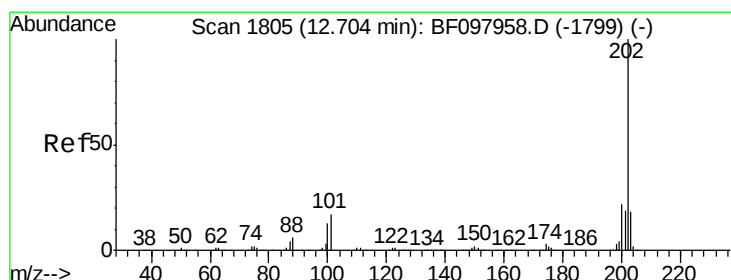
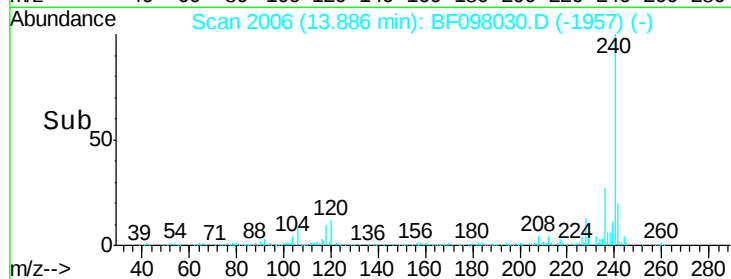
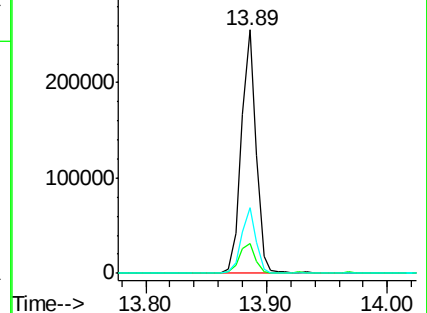
236 26.8 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 11.74 ng

RT: 12.69 min Scan# 1802

Delta R.T. -0.02 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

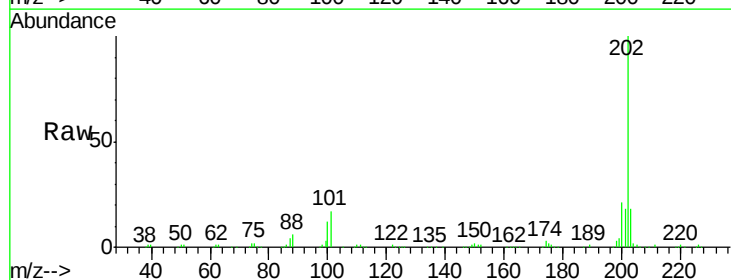
Tgt Ion:202 Resp: 211328

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

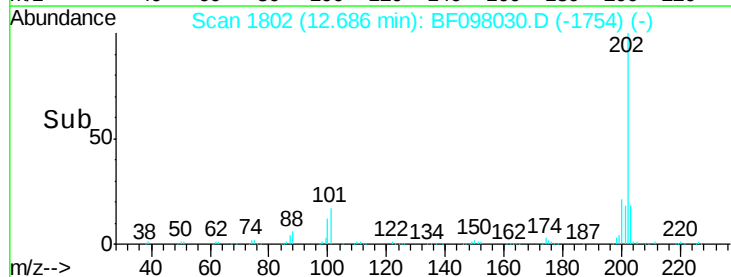
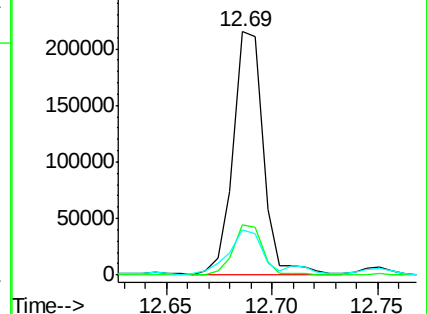
203 18.4 14.4 21.6

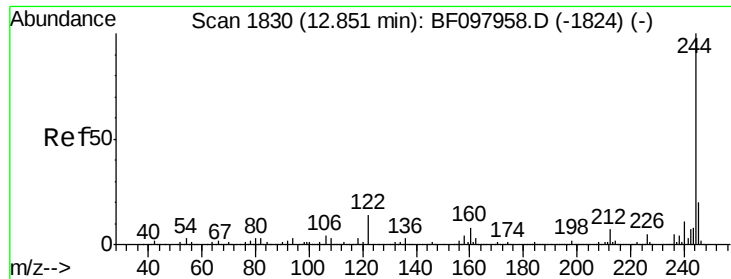


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

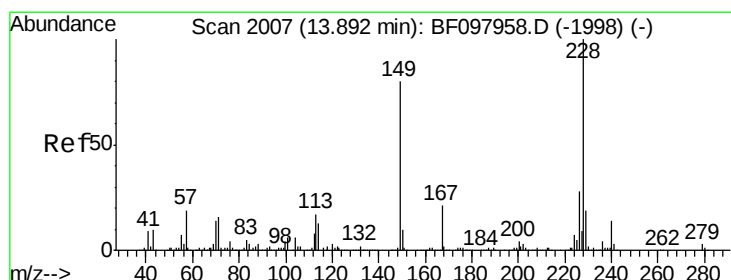
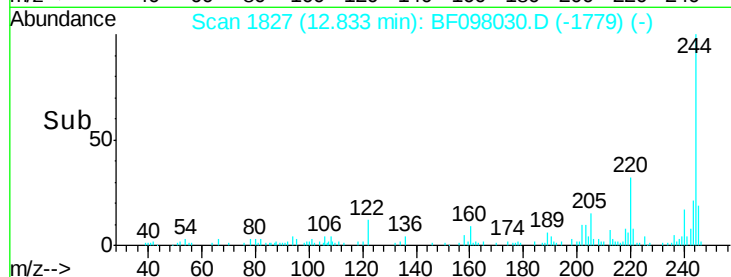
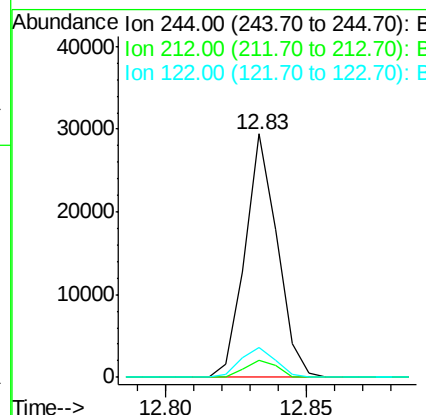
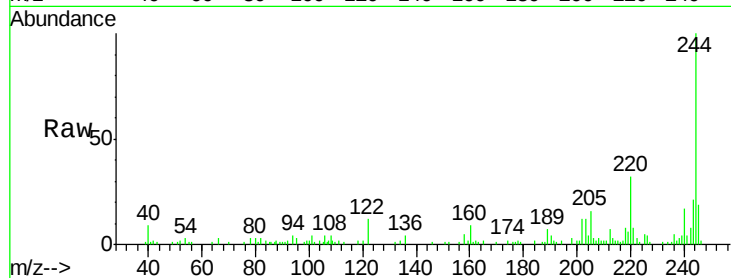




#78
 Terphenyl-d14
 Concen: 2.21 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. -0.02 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

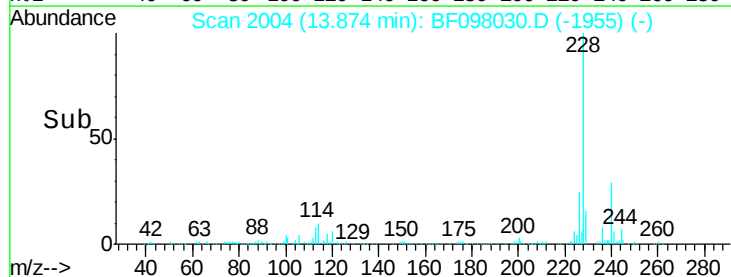
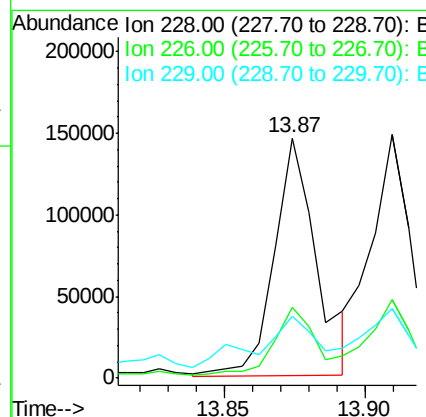
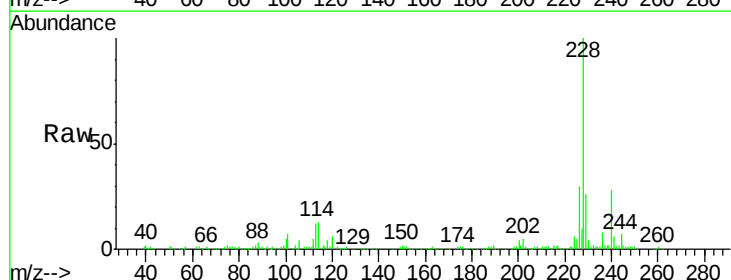
Instrument :
 BNA_F
 ClientSampleId :
 SB1-SOIL-0-2.0

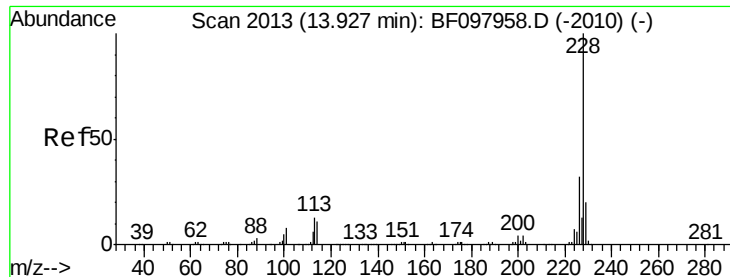
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	12.1	10.3	15.5



#80
 Benzo(a)anthracene
 Concen: 11.50 ng
 RT: 13.87 min Scan# 2004
 Delta R.T. -0.01 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	33.8
229	25.9	16.3	24.5





#82

Chrysene

Concen: 11.18 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.02 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

Instrument :

BNA_F

ClientSampleId :

SB1-SOIL-0-2.0

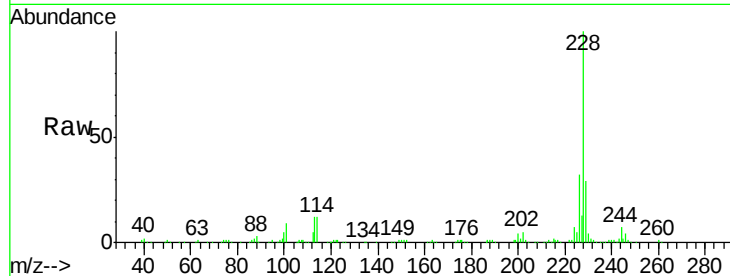
Tot Ion:228 Resp: 146738

Ion Ratio Lower Upper

228 100

226 32.1 24.9 37.3

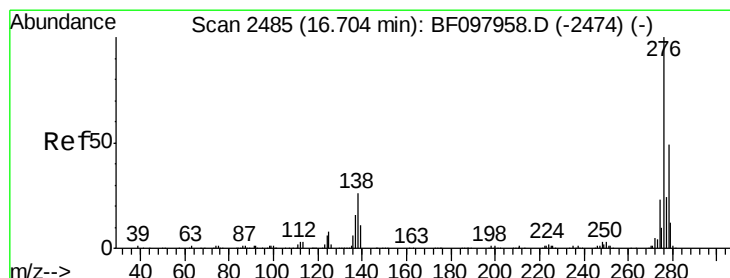
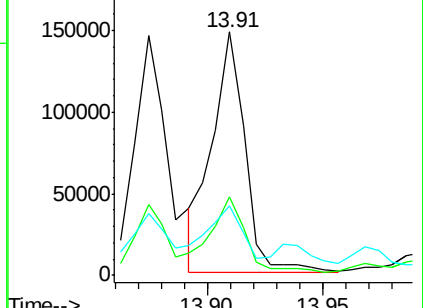
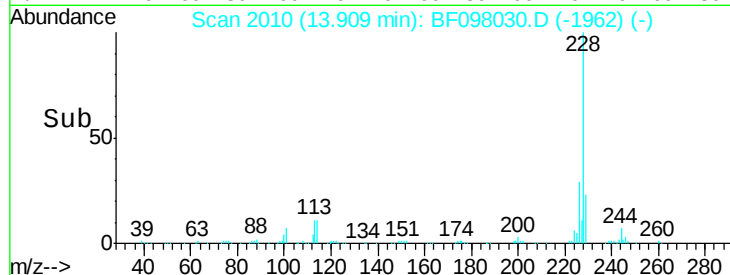
229 28.8 15.8 23.6#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.44 ng

RT: 16.67 min Scan# 2479

Delta R.T. -0.02 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

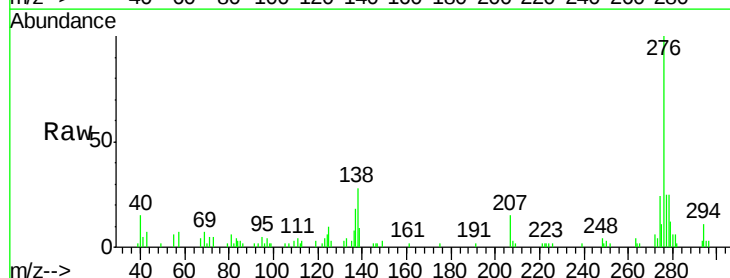
Tgt Ion:276 Resp: 33176

Ion Ratio Lower Upper

276 100

138 32.1 27.8 41.6

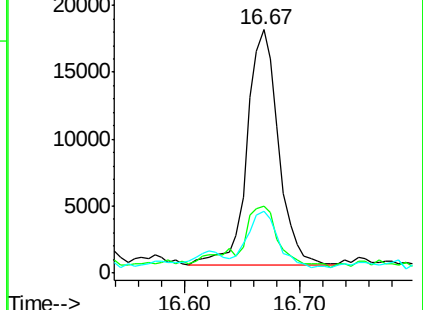
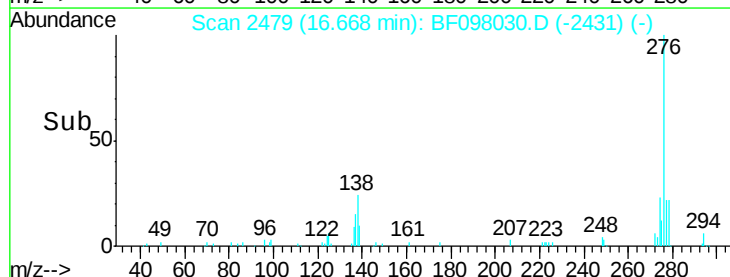
277 22.9 20.2 30.4

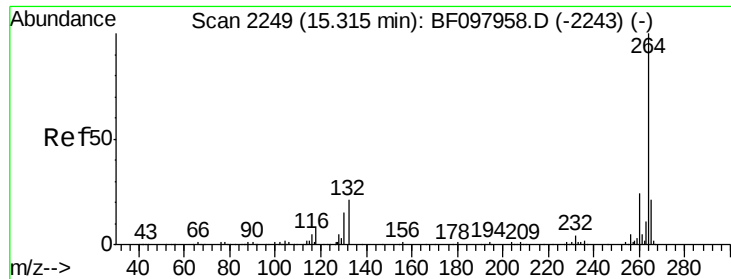


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

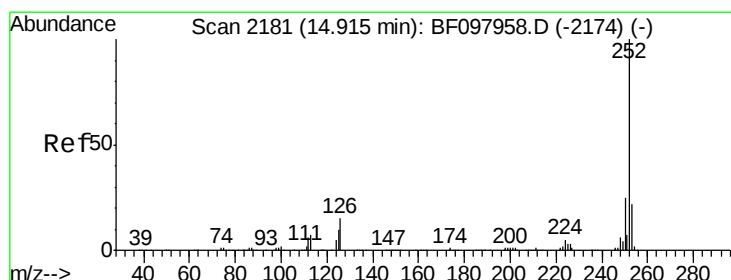
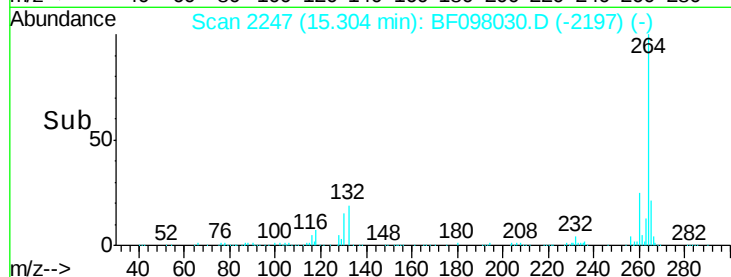
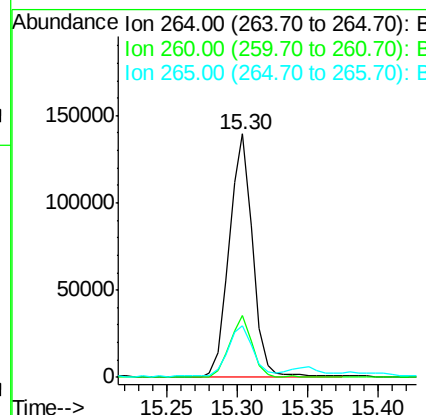
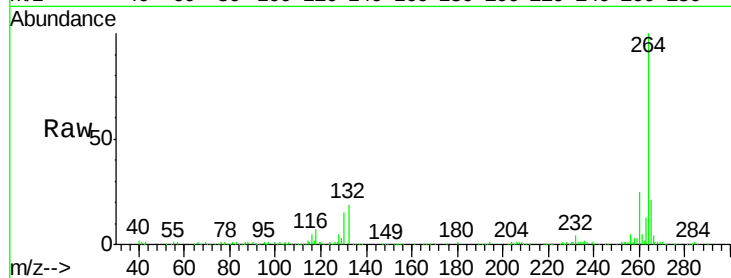




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

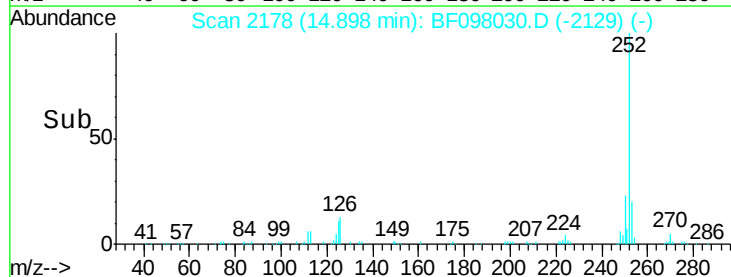
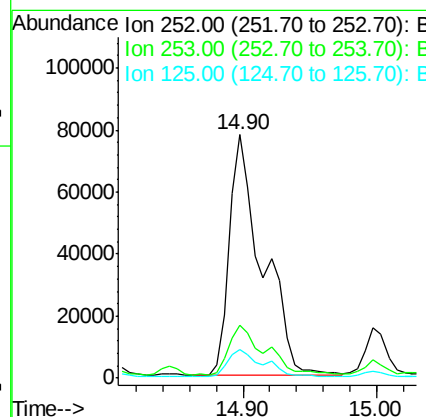
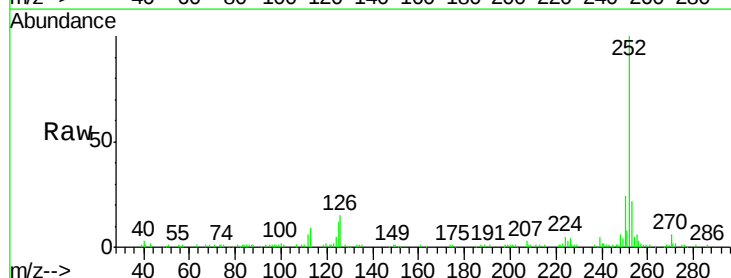
Instrument :
BNA_F
ClientSampleId :
SB1-SOIL-0-2.0

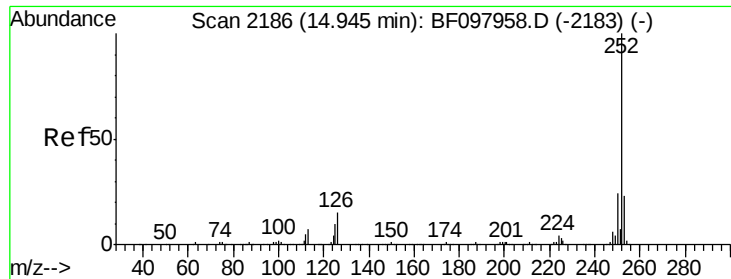
Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.5	29.3
265	21.3	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 13.46 ng
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.1	27.1
125	11.7	9.8	14.8

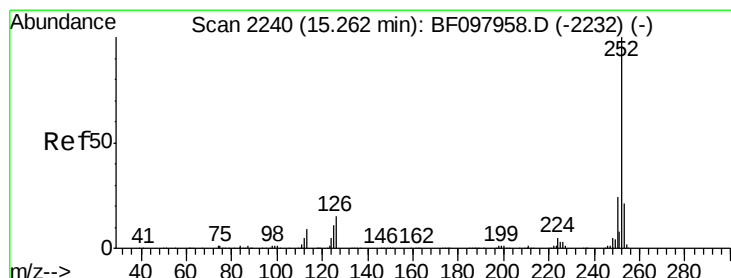
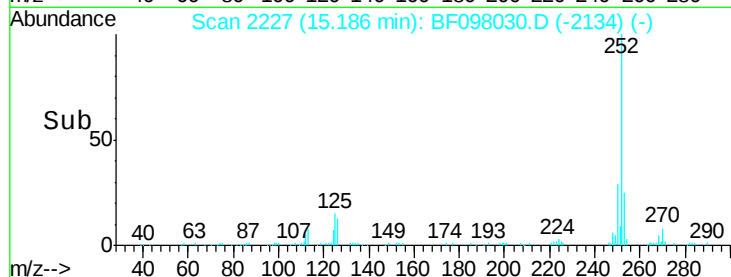
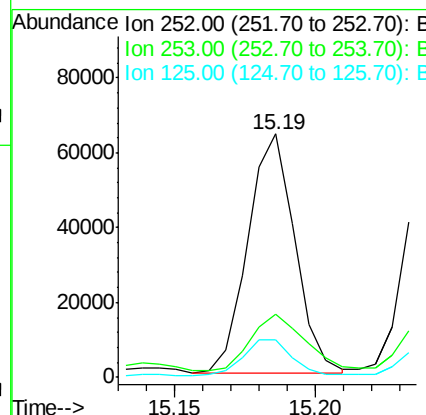
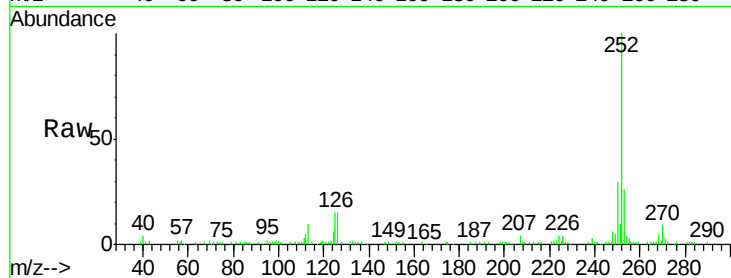




#88
Benzo(k)fluoranthene
Concen: 7.79 ng
RT: 15.19 min Scan# 2227
Delta R.T. 0.25 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

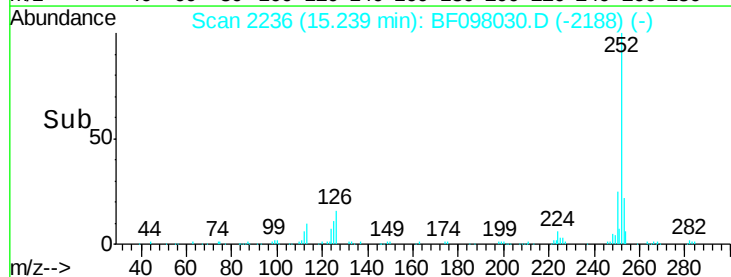
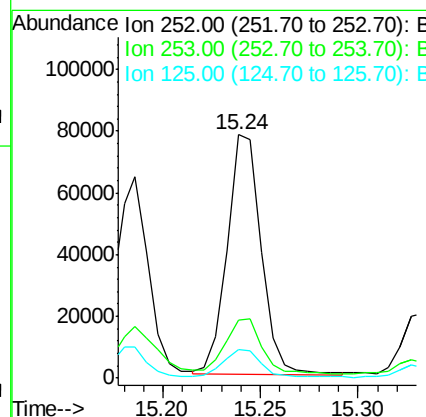
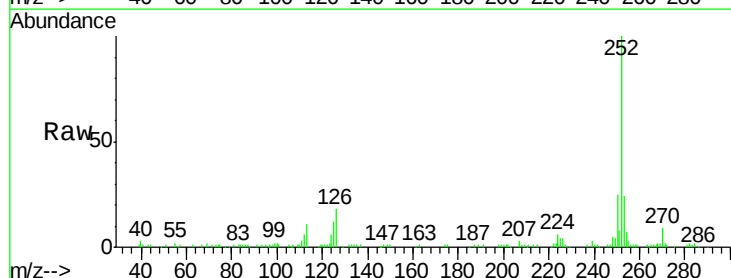
Instrument :
BNA_F
ClientSampleId :
SB1-SOIL-0-2.0

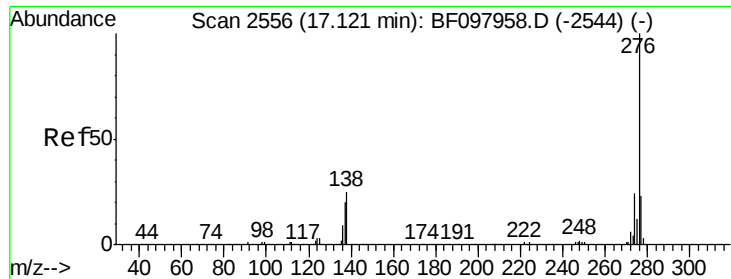
Tot Ion:252 Resp: 73579
Ion Ratio Lower Upper
252 100
253 25.9 18.4 27.6
125 15.4 13.1 19.7



#89
Benzo(a)pyrene
Concen: 10.60 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

Tgt Ion:252 Resp: 94287
Ion Ratio Lower Upper
252 100
253 24.0 17.5 26.3
125 11.8 11.0 16.4





#91
 Benzo(a,h,i)perylene
 Concen: 5.08 ng
 RT: 17.08 min Scan# 2549
 Delta R.T. -0.03 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Instrument :
 BNA_F
 ClientSampleId :
 SB1-SOIL-0-2.0

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.9	18.6	28.0
138	28.0	25.4	38.0

