

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

Manual Integrations
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 8/25/2017 5:40:24 PM

Quant Time: Aug 25 05:19:41 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						
70) Phenanthrene	11.27	178	74814	5.833	ng	Qvalue 98
71) Anthracene	11.33	178	26525	2.039	ng	99
74) Fluoranthene	12.46	202	150046	11.209	ng	97
77) Pyrene	12.69	202	211328	11.737	ng	98
80) Benzo(a)anthracene	13.87	228	151708	11.498	ng	# 94
82) Chrysene	13.91	228	146738	11.180	ng	# 91
85) Indeno(1,2,3-cd)pyrene	16.67	276	33176	3.436	ng	95
87) Benzo(b)fluoranthene	14.90	252	104933m	10.443	ng	
88) Benzo(k)fluoranthene	14.92	252	35209m	3.730	ng	
89) Benzo(a)pyrene	15.24	252	94287	10.600	ng	95
91) Benzo(g,h,i)perylene	17.08	276	38362	5.077	ng	95

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

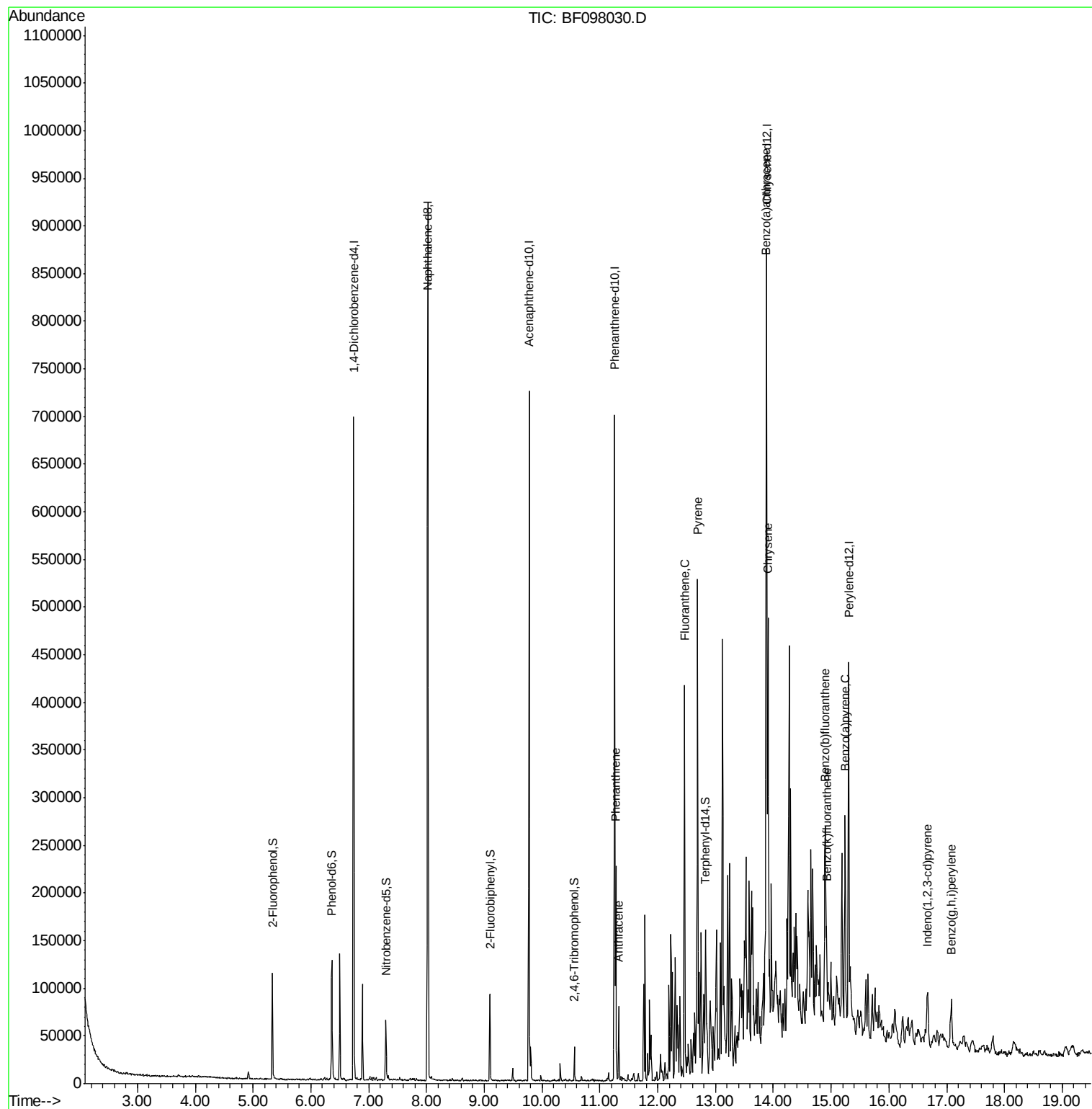
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082417\
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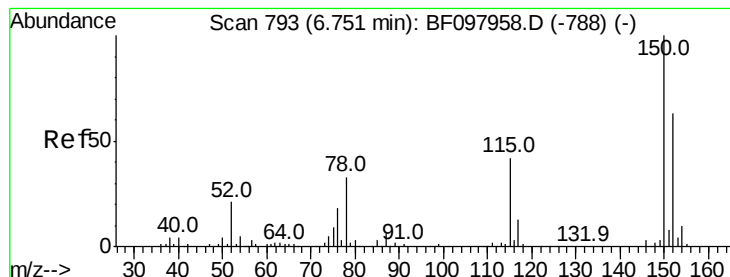
Instrument :
BNA_F
ClientSampleId :
SB1-SOIL-0-2.0

Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
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#1

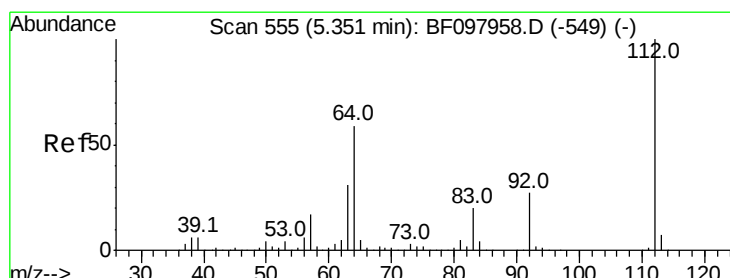
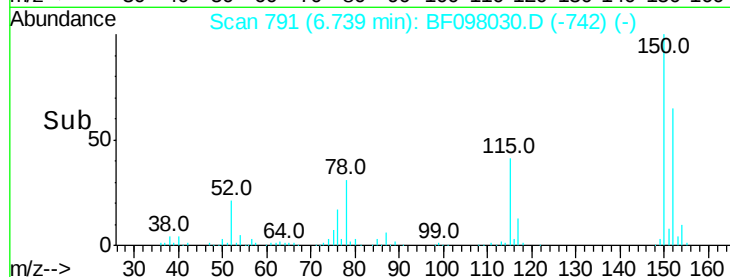
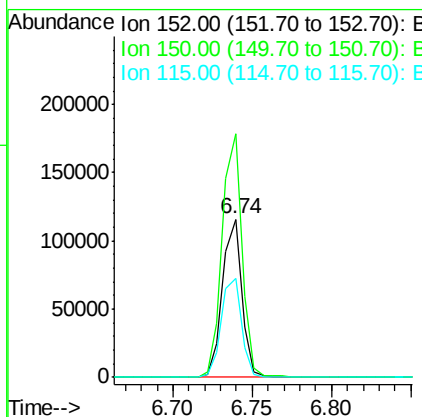
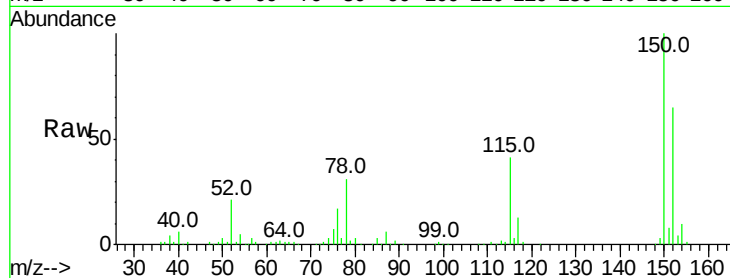
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

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

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

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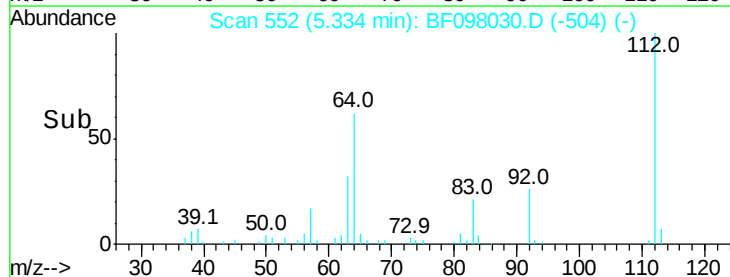
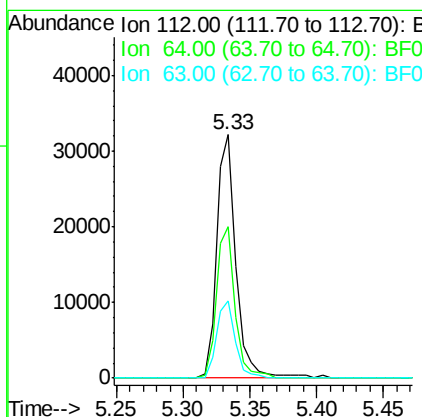
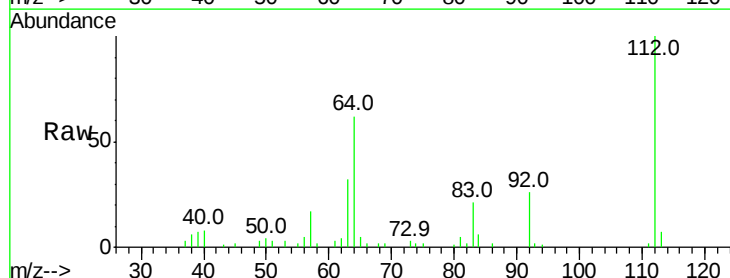
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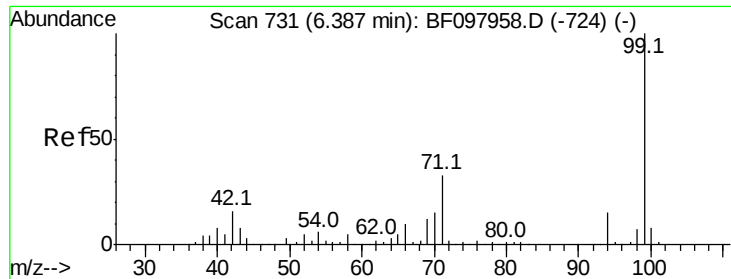


#5

2-Fluorophenol
Concen: 5.063 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	Ratio	Lower	Upper
112	100		
64	62.3	46.0	69.0
63	31.9	23.4	35.0





#7

Phenol-d6

Concen: 5.046 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

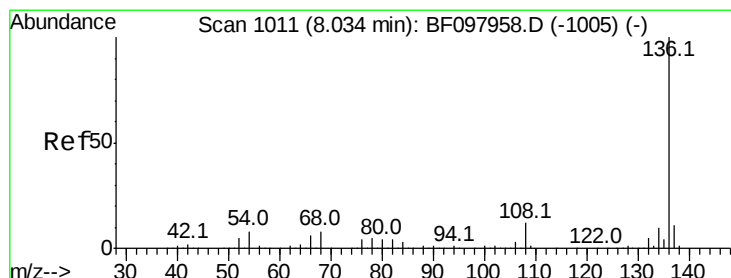
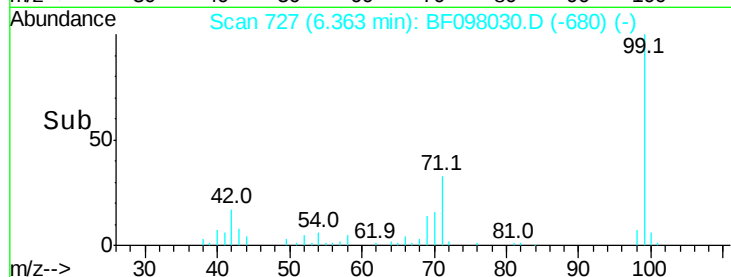
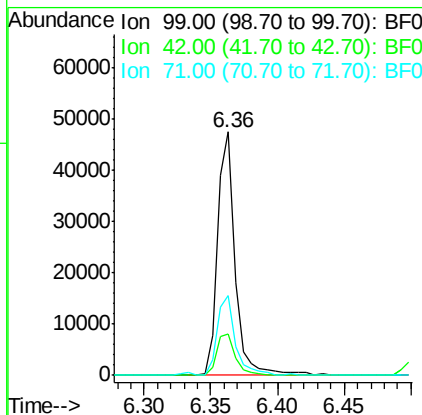
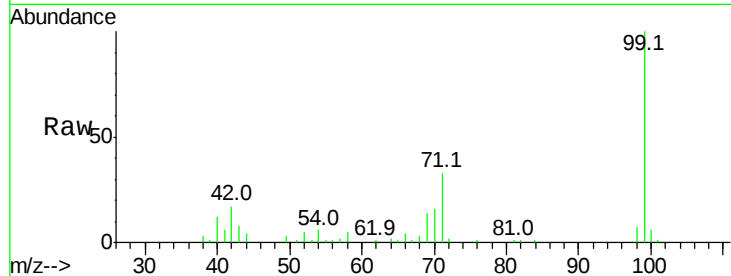
ClientSampleId :

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

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#21

Naphthalene-d8

Concen: 20.000 ng

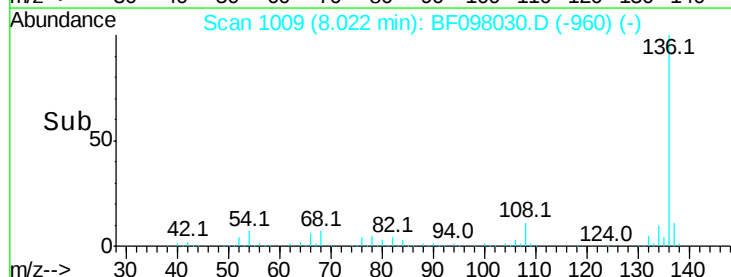
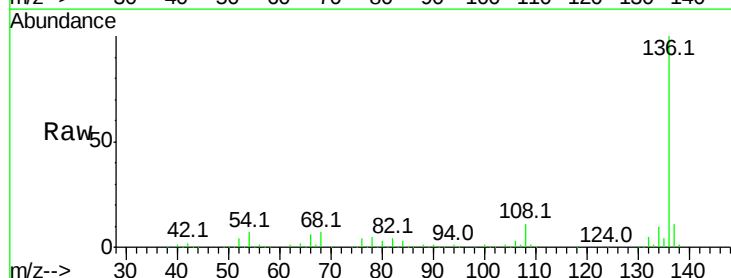
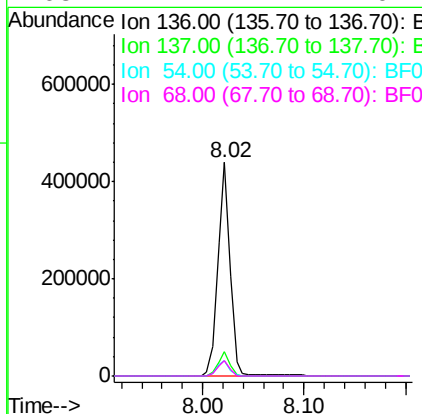
RT: 8.02 min Scan# 1009

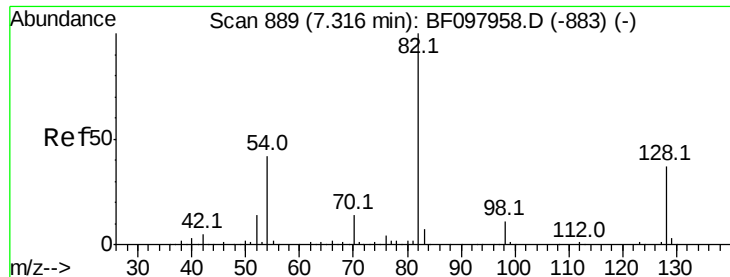
Delta R.T. -0.01 min

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#





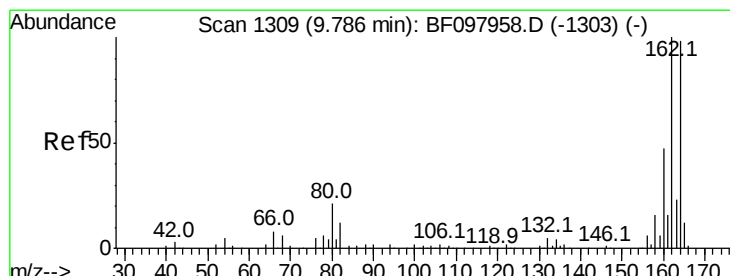
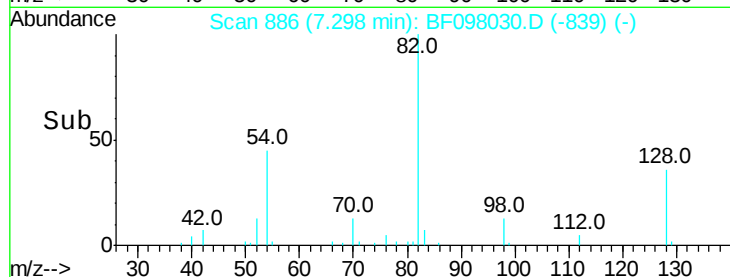
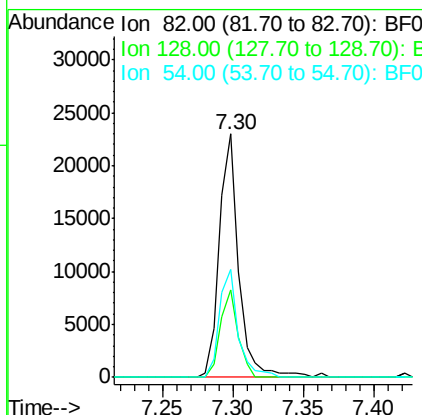
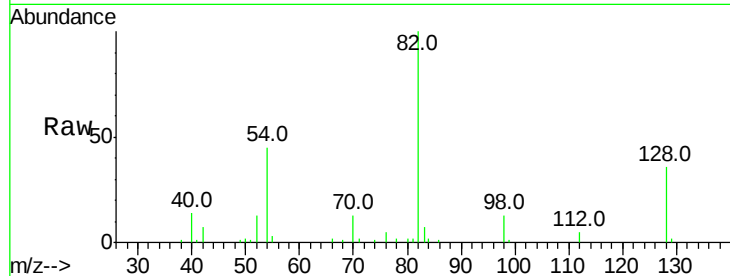
#23
Nitrobenzene-d5
Concen: 3.236 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.02 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.0	34.0	51.0
54	44.5	42.2	63.2

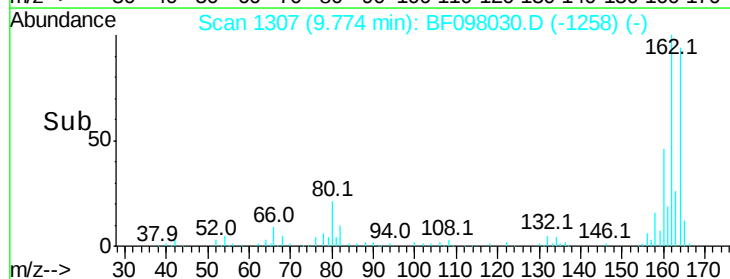
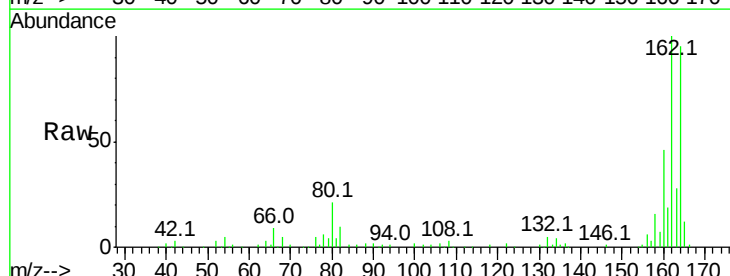
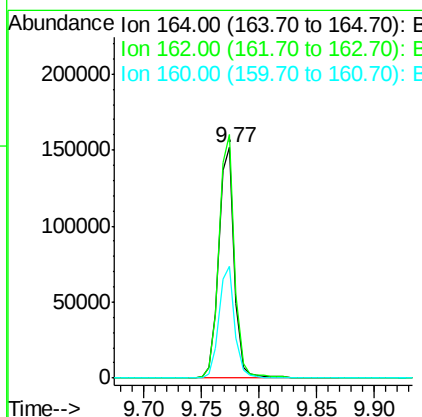
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

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





#41

2,4,6-Tribromophenol

Concen: 2.976 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

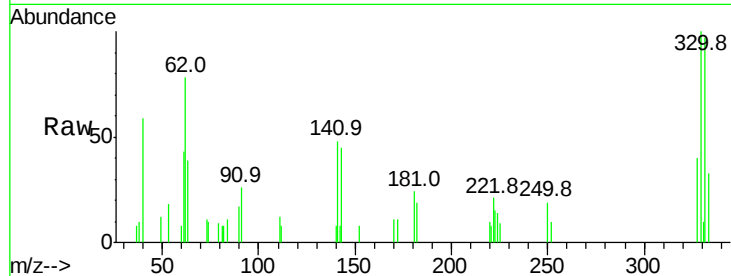
ClientSampled :

SB1-SOIL-0-2.0

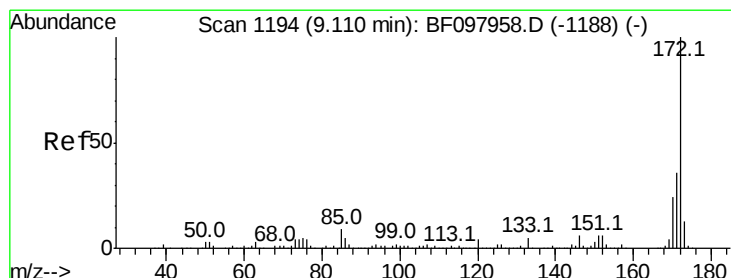
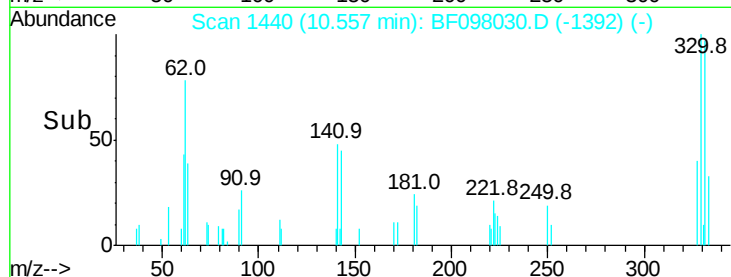
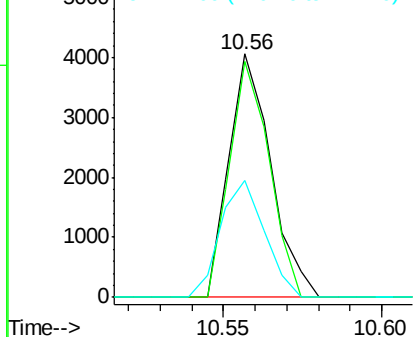
Tot Ion:	330	Resp:	3700
Ion Ratio	Lower	Upper	
330	100		
332	91.7	76.6	115.0
141	50.7	31.4	47.2#

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 3.347 ng

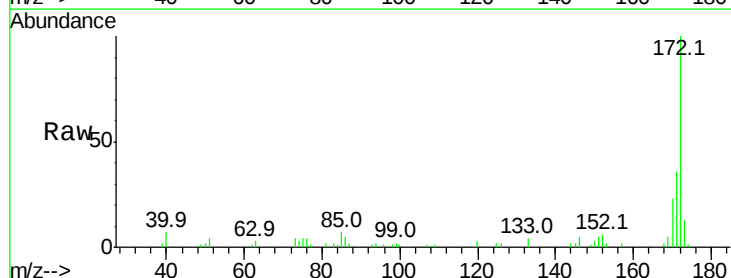
RT: 9.10 min Scan# 1192

Delta R.T. -0.01 min

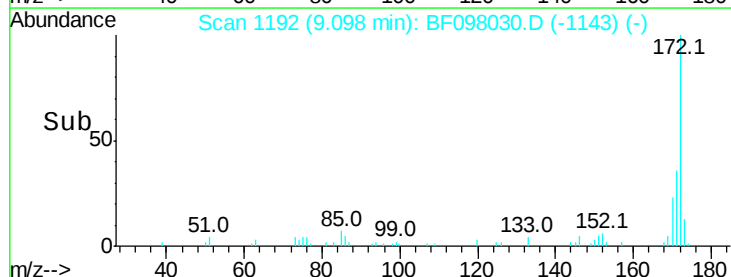
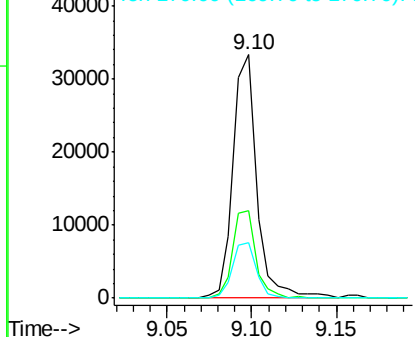
Lab File: BF098030.D

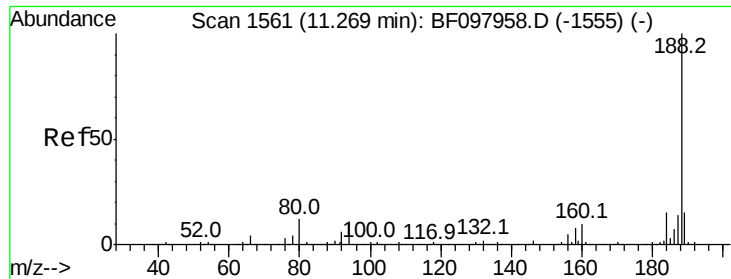
Acq: 25 Aug 2017 4:54

Tgt Ion:	172	Resp:	32639
Ion Ratio	Lower	Upper	
172	100		
171	35.8	29.6	44.4
170	22.6	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

Instrument :

BNA_F

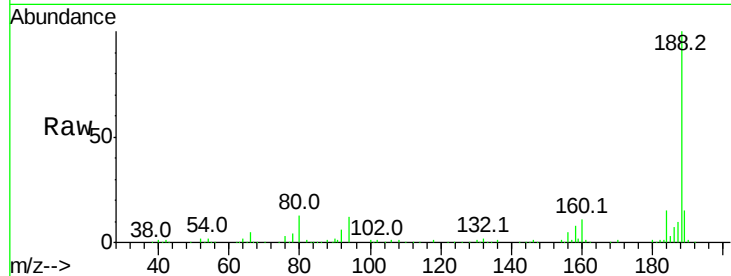
ClientSampleId :

SB1-SOIL-0-2.0

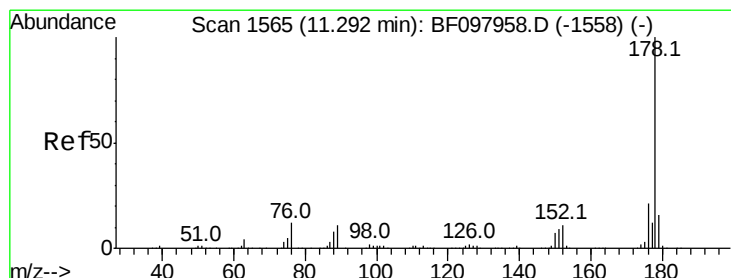
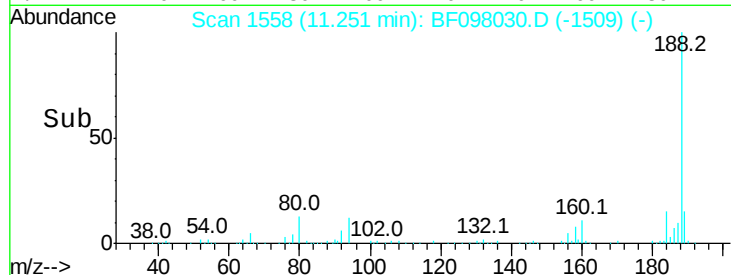
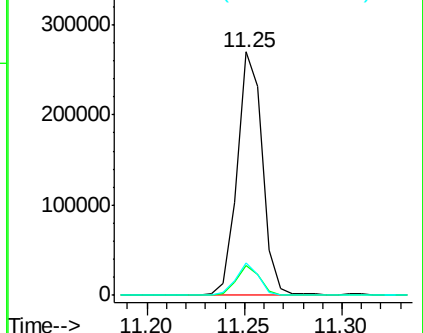
Tot Ion:	188	Resp:	240676
Ion Ratio	Lower	Upper	
188	100		
94	12.4	9.4	14.2
80	13.2	10.2	15.2

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Abundance Ion 188.00 (187.70 to 188.70): E



#70

Phenanthrene

Concen: 5.833 ng

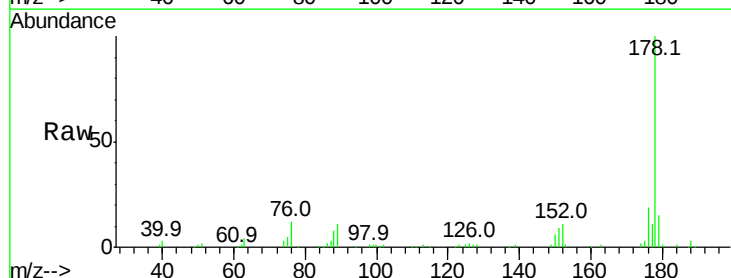
RT: 11.27 min Scan# 1562

Delta R.T. -0.02 min

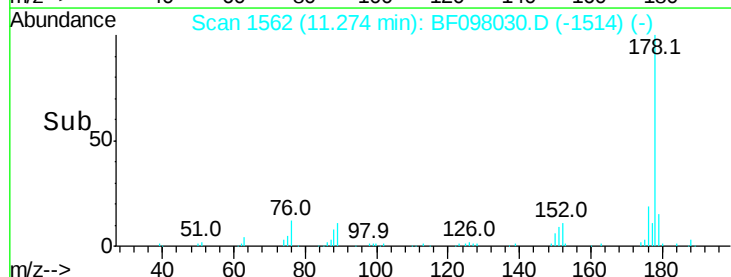
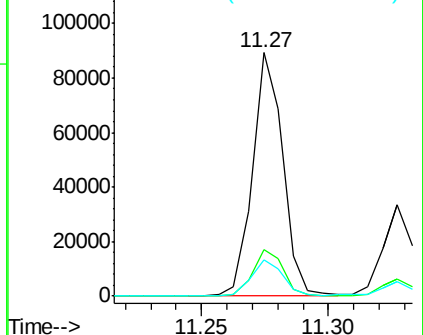
Lab File: BF098030.D

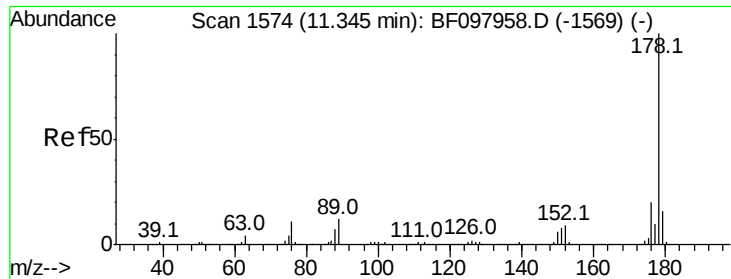
Acq: 25 Aug 2017 4:54

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



Abundance Ion 178.00 (177.70 to 178.70): E





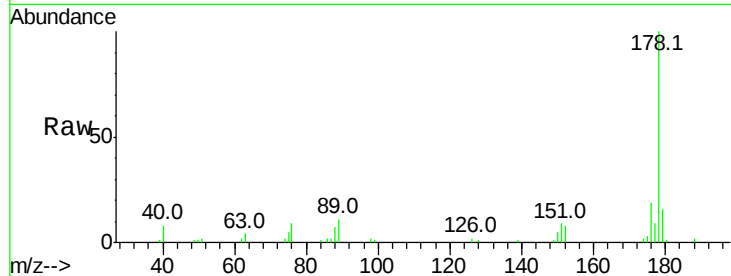
#71
 Anthracene
 Concen: 2.039 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

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

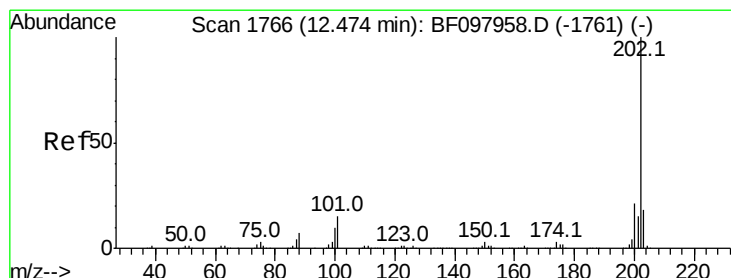
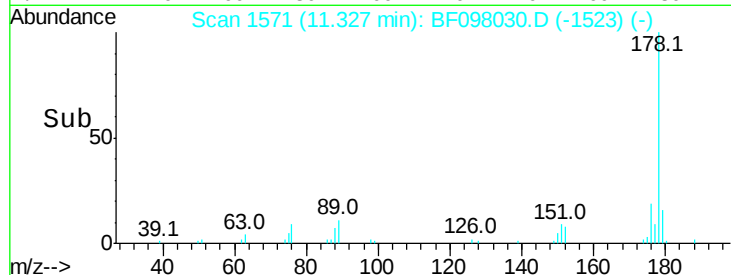
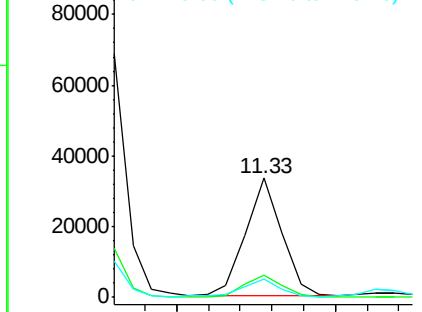
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	15.9	12.7	19.1

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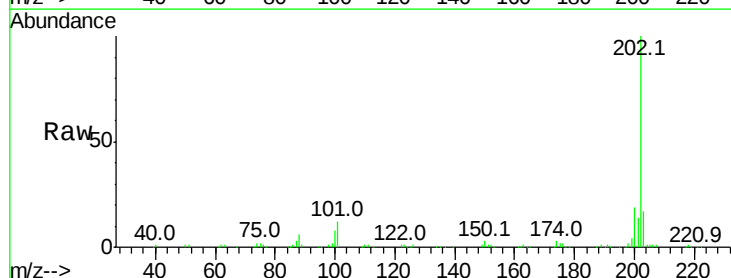


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

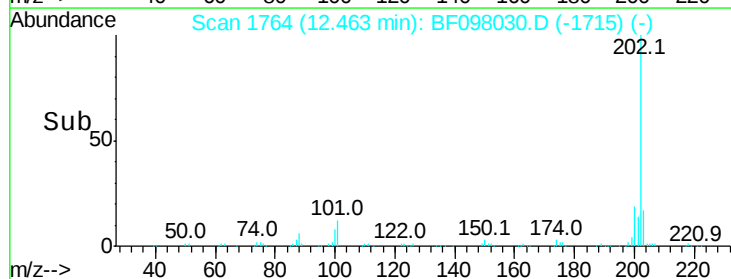
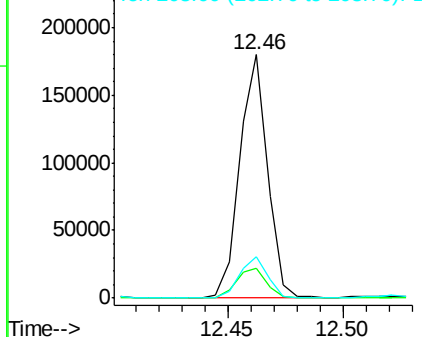


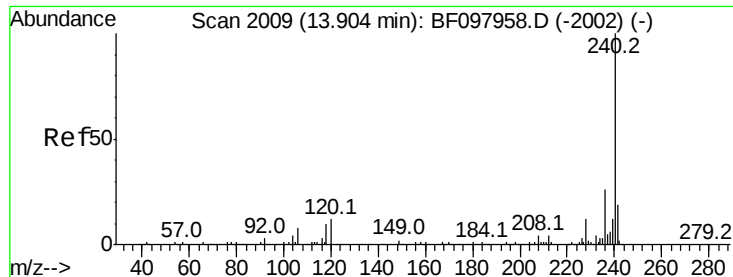
#74
 Fluoranthene
 Concen: 11.209 ng
 RT: 12.46 min Scan# 1764
 Delta R.T. -0.01 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

Tgt Ion	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: 20.000 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

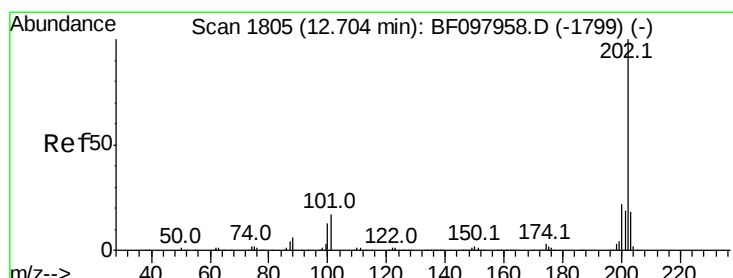
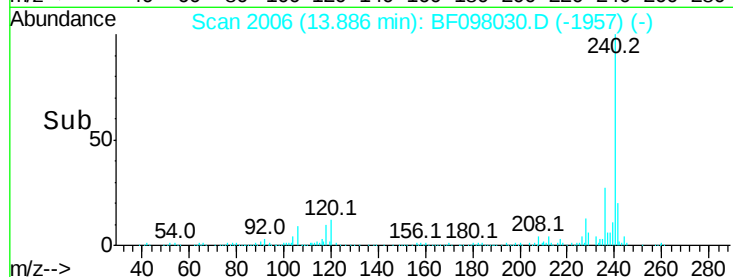
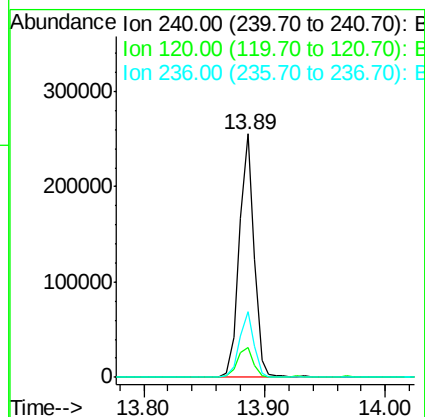
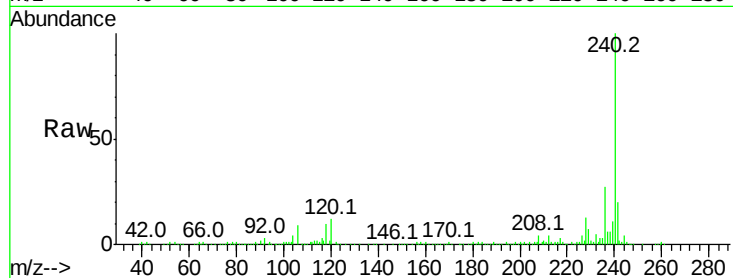
ClientSampleId :

SB1-SOIL-0-2.0

Tot Ion	Ratio	Resp	Lower	Upper
240	100	220147		
120	12.3	5.8	8.8#	
236	26.8	20.5	30.7	

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#77

Pyrene

Concen: 11.737 ng

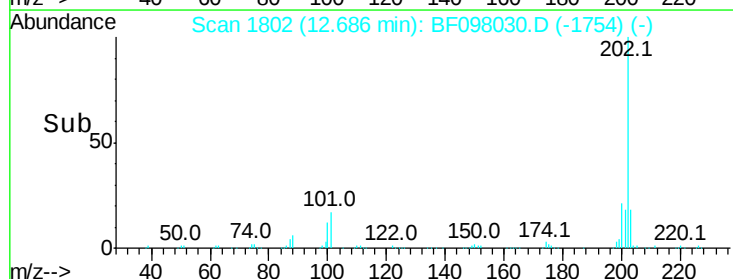
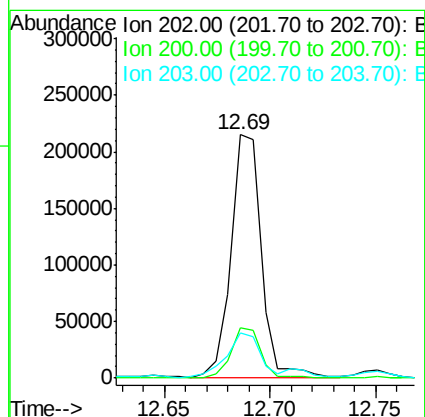
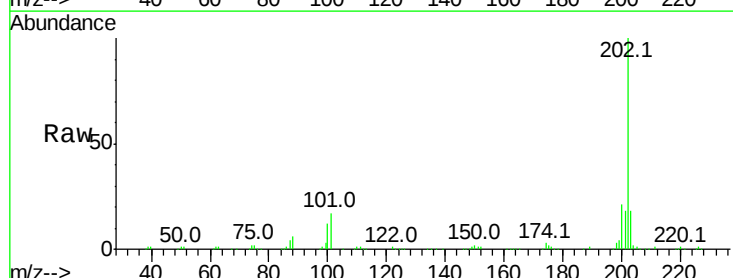
RT: 12.69 min Scan# 1802

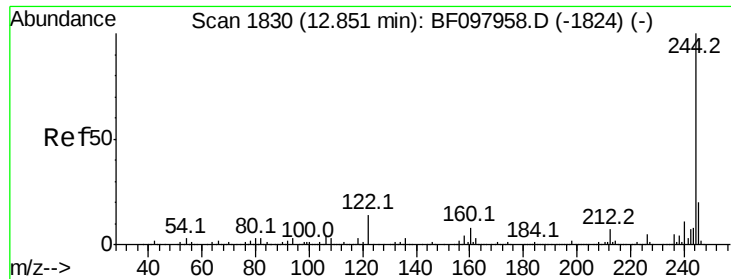
Delta R.T. -0.02 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	211328		
200	20.8	17.6	26.4	
203	18.4	14.4	21.6	





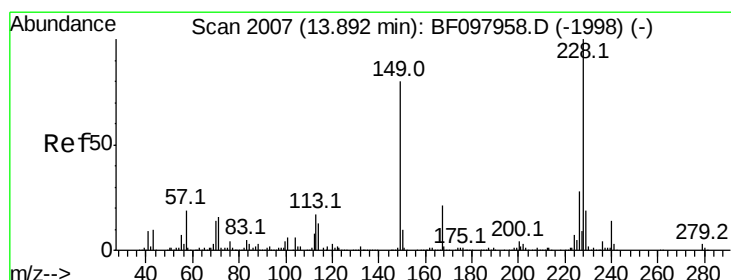
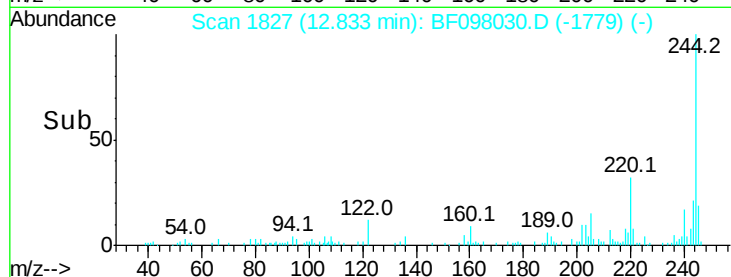
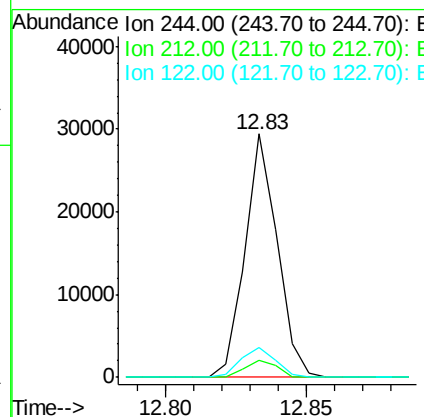
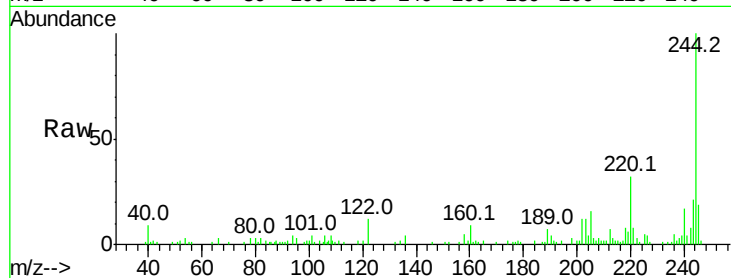
#78
 Terphenyl-d14
 Concen: 2.212 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. -0.02 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

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

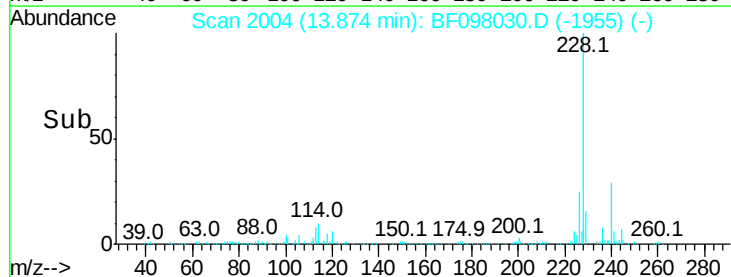
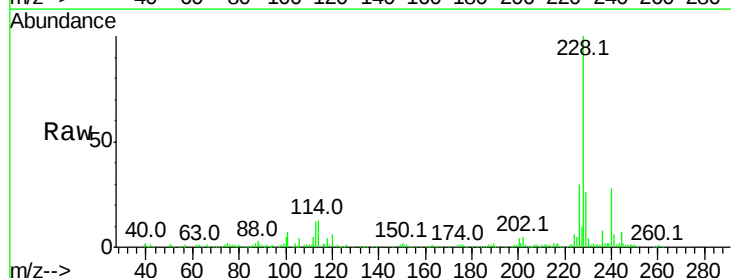
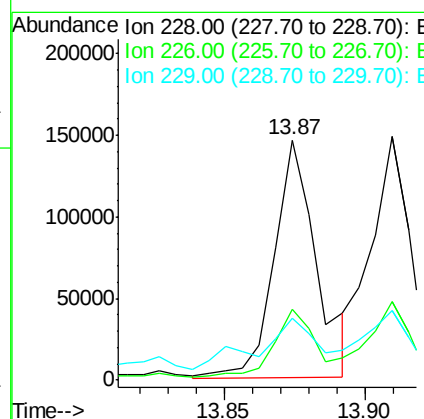
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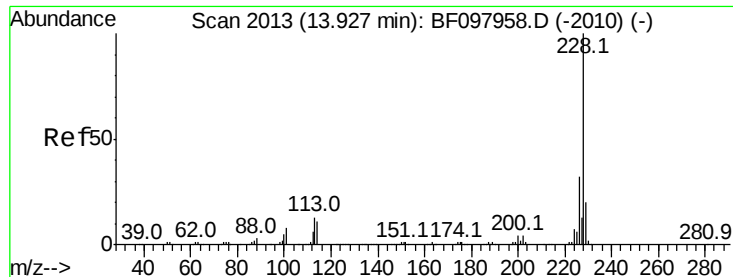
Sohil
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#80
 Benzo(a)anthracene
 Concen: 11.498 ng
 RT: 13.87 min Scan# 2004
 Delta R.T. -0.01 min
 Lab File: BF098030.D
 Acq: 25 Aug 2017 4:54

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





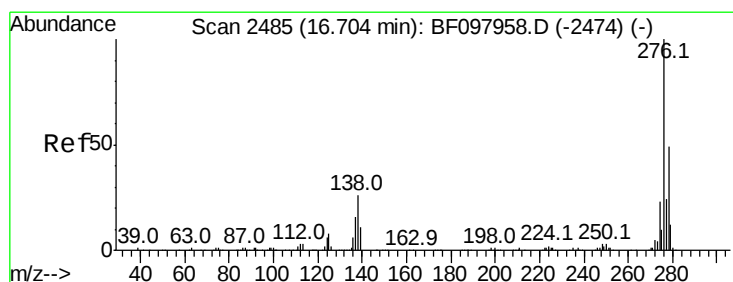
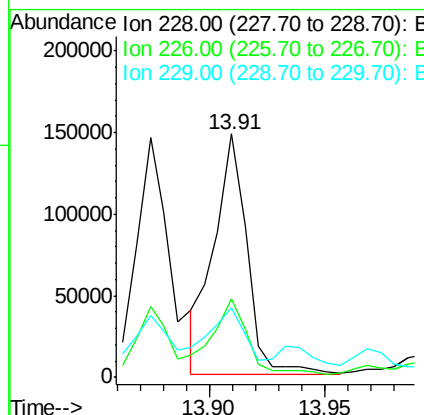
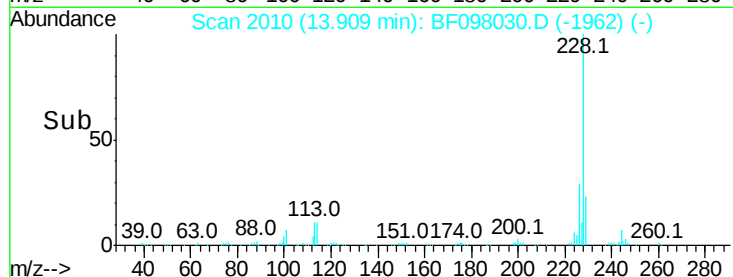
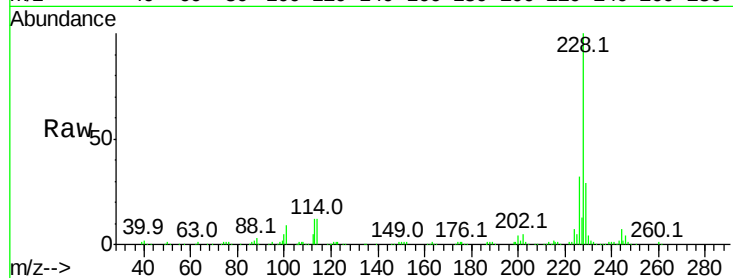
#82
Chrysene
Concen: 11.180 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

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

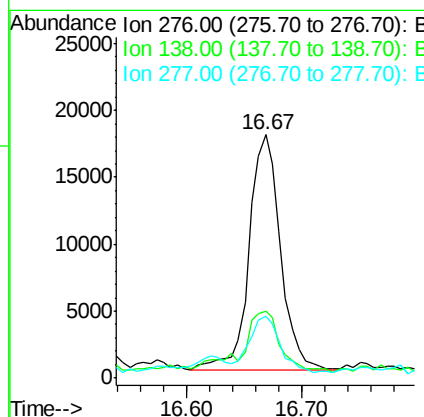
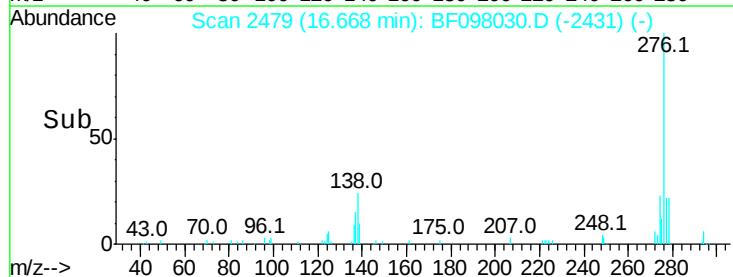
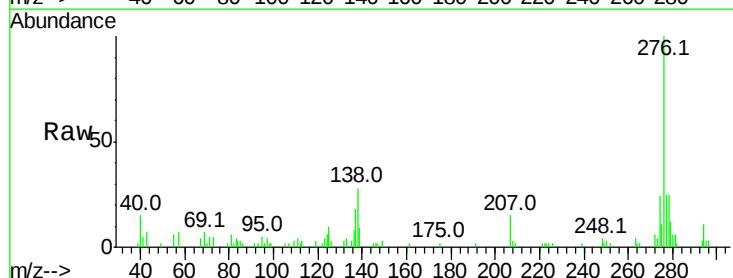
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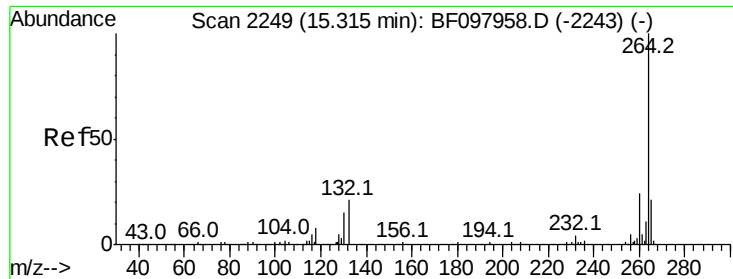
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#85
Indeno(1,2,3-cd)pyrene
Concen: 3.436 ng
RT: 16.67 min Scan# 2479
Delta R.T. -0.02 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

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





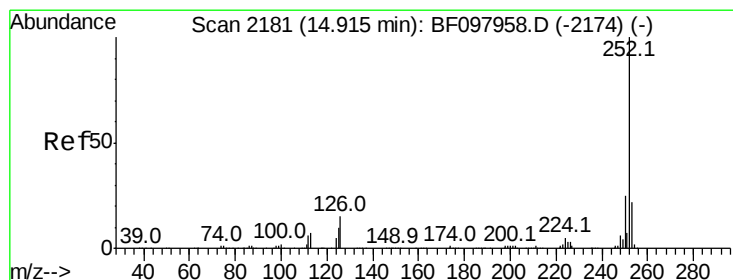
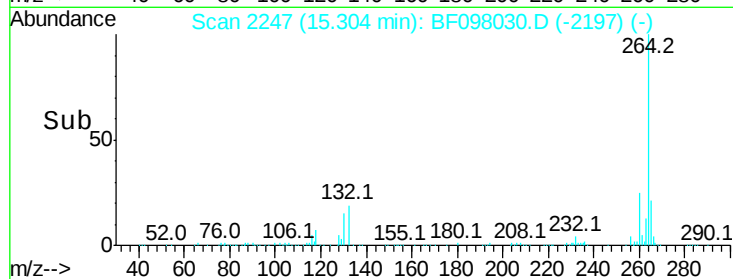
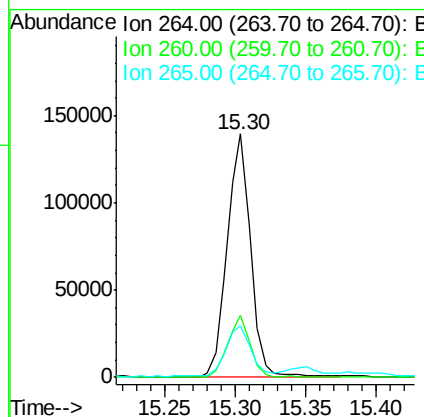
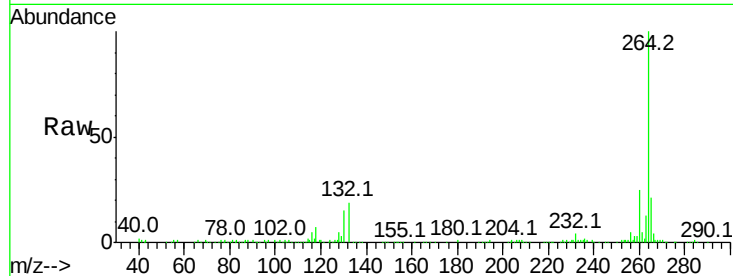
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

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

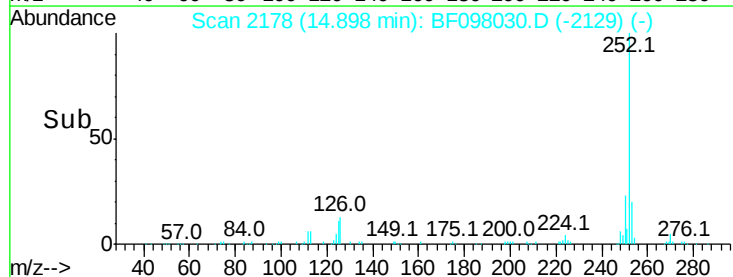
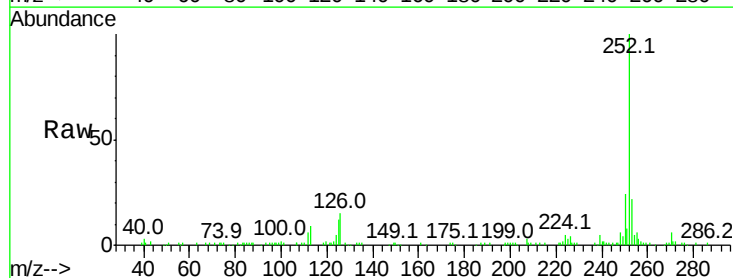
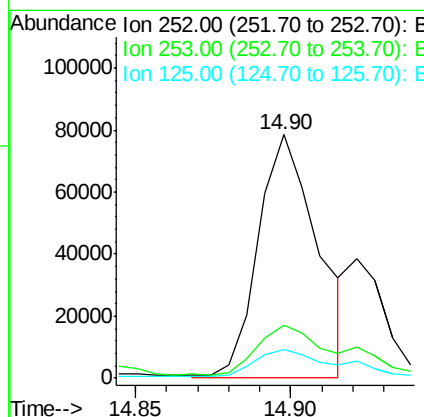
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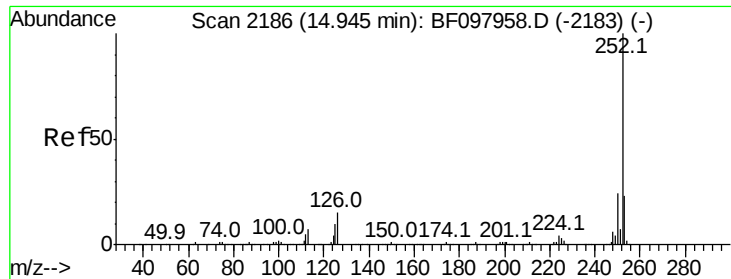
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#87
Benzo(b)fluoranthene
Concen: 10.443 ng m
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF098030.D
Acq: 25 Aug 2017 4:54

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: 3.730 ng/mL

RT: 14.92 min Scan# 2182

Delta R.T. -0.02 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

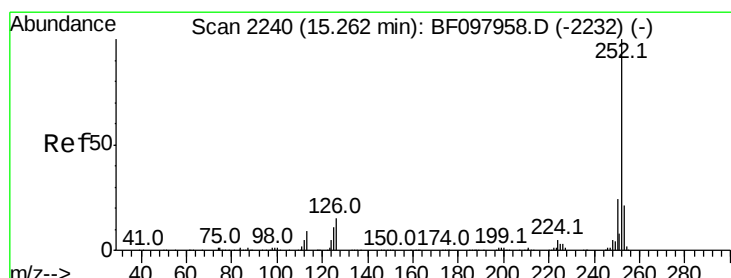
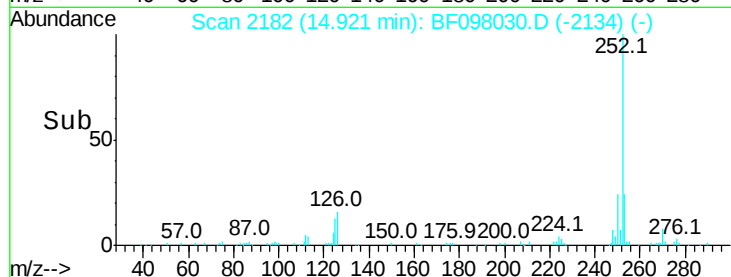
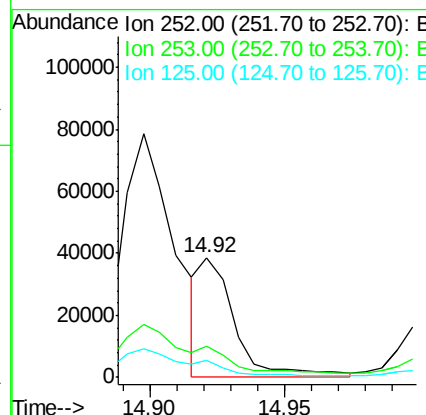
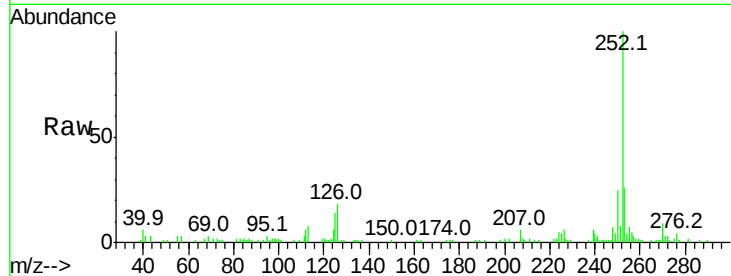
Instrument :
BNA_F

Client Sampled :
SB1-SOIL-0-2.0

Tot Ion	Ratio	Resp	Lower	Upper
252	100	35209		
253	25.5		18.4	27.6
125	14.1		13.1	19.7

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#89

Benzo(a)pyrene

Concen: 10.600 ng/mL

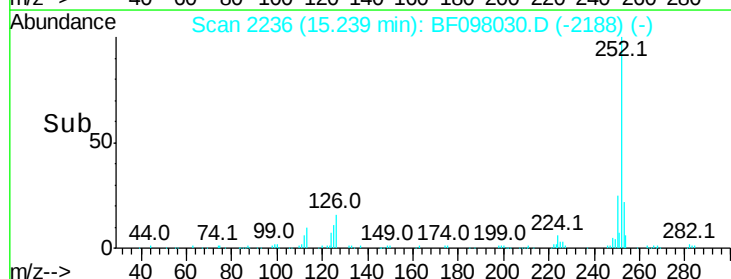
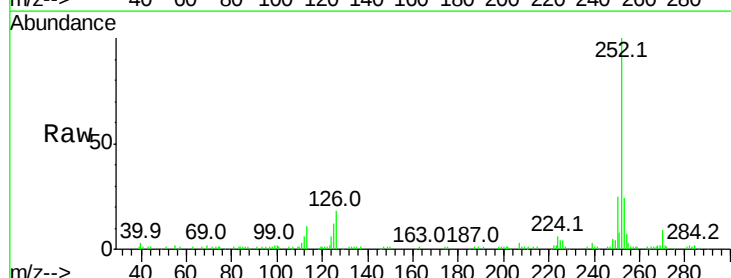
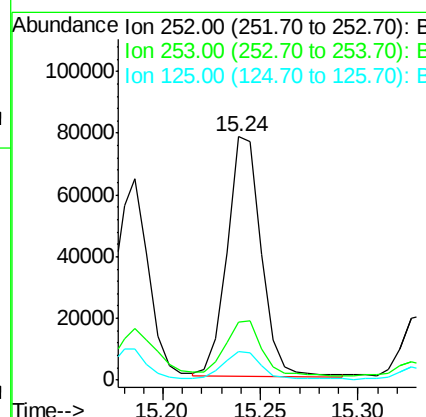
RT: 15.24 min Scan# 2236

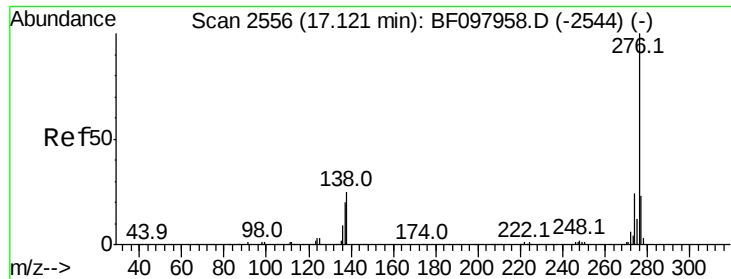
Delta R.T. -0.02 min

Lab File: BF098030.D

Acq: 25 Aug 2017 4:54

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





#91
 Benzo(a,h,i)perylene
 Concen: 5.077 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:	276	Resp:	38362
Ion Ratio	Lower	Upper	
276	100		
277	21.9	18.6	28.0
138	28.0	25.4	38.0

Manual Integrations
 APPROVED

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