

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF101918\
 Data File : BF110018.D
 Acq On : 19 Oct 2018 22:18
 Operator : JU/SJ
 Sample : J5590-01
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL-1

Manual Integrations
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Quant Time: Oct 20 02:56:40 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 16 14:58:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	10659	20.00	ng	-0.02
21) Naphthalene-d8	8.25	136	803	20.00	ng	-0.02
39) Acenaphthene-d10	0.00	164	0	0.00	ng	-10.03
64) Phenanthrene-d10	11.50	188	927	20.00	ng	-0.02
76) Chrysene-d12	14.14	240	632	20.00	ng	-0.02
87) Perylene-d12	15.66	264	382	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	1317308	1959.01	ng	0.00
7) Phenol-d6	6.59	99	1717139	2056.49	ng	-0.01
23) Nitrobenzene-d5	7.53	82	1073690	90072.16	ng	-0.02
42) 2,4,6-Tribromophenol	10.80	330	398236	0.00	ng	-0.01
45) 2-Fluorobiphenyl	9.33	172	1766714	0.00	ng	-0.01
79) Terphenyl-d14	13.09	244	1581114	52535.18	ng	-0.02
Target Compounds						
10) Phenol	6.60	94	151398	167.939	ng	Qvalue # 61
31) Naphthalene	8.27	128	9222	250.444	ng	# 94
37) 2-Methylnaphthalene	8.96	142	7815	327.758	ng	94
38) 1-Methylnaphthalene	9.06	142	6475	280.247	ng	90
71) Phenanthrene	11.52	178	17080	355.897	ng	97
72) Anthracene	11.57	178	4641m	96.189	ng	
73) Carbazole	11.73	167	3200	67.484	ng	# 53
74) Di-n-butylphthalate	12.05	149	22929	433.278	ng	# 94
75) Fluoranthene	12.72	202	32130	670.175	ng	97
78) Pyrene	12.95	202	28660	617.427	ng	97
81) Benzo(a)anthracene	14.13	228	11938	320.686	ng	93
83) Chrysene	14.17	228	13149	371.086	ng	98
84) Bis(2-ethylhexyl)phthalate	14.11	149	9908	401.238	ng	100
86) Indeno(1,2,3-cd)pyrene	17.22	276	5823	204.103	ng	# 93
88) Benzo(b)fluoranthene	15.21	252	13369m	607.044	ng	
89) Benzo(k)fluoranthene	15.24	252	5063m	233.240	ng	
90) Benzo(a)pyrene	15.60	252	8721	430.558	ng	# 85
92) Benzo(g,h,i)perylene	17.68	276	5358	295.425	ng	# 84

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

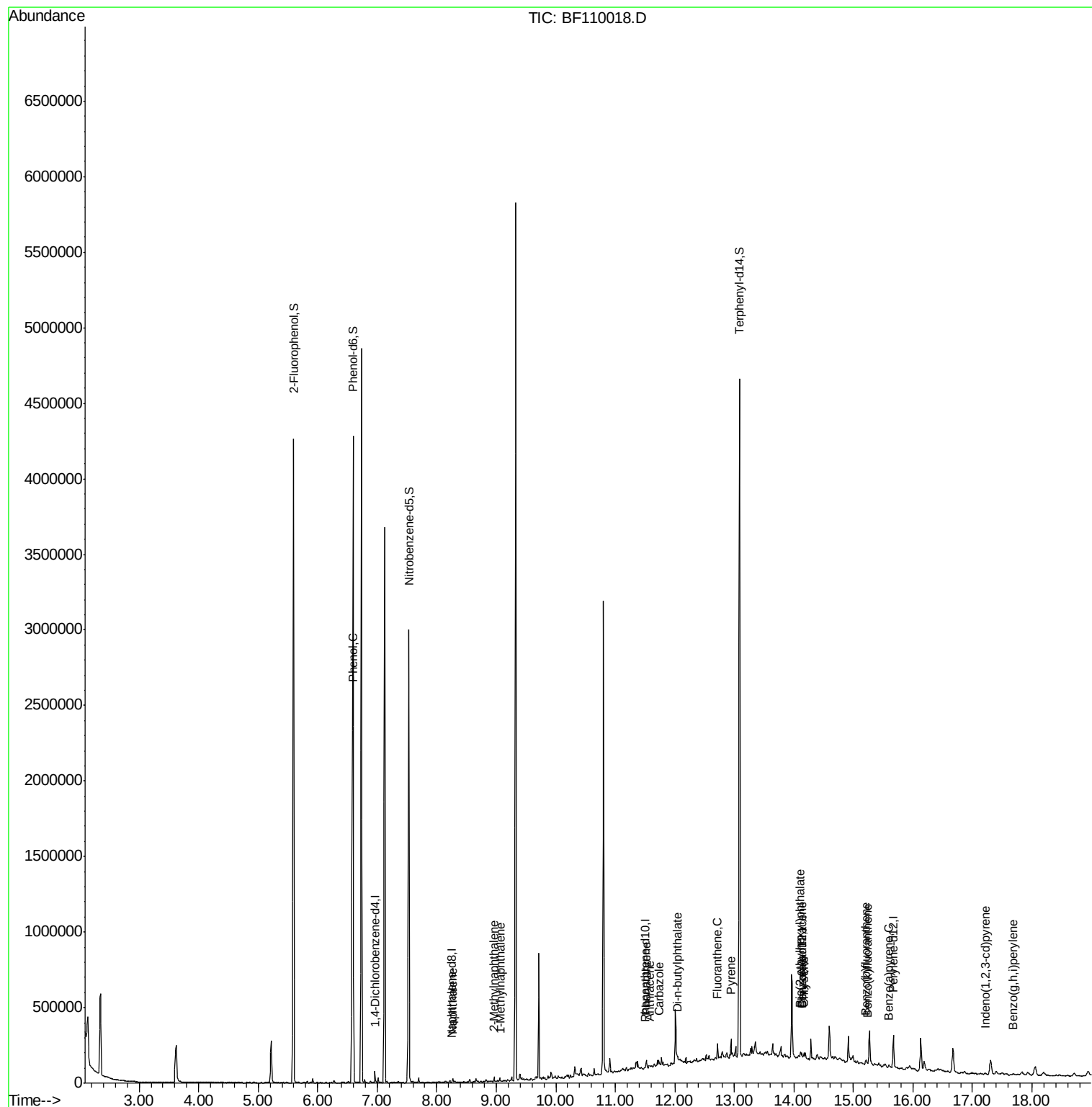
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF101918\
Data File : BF110018.D
Acq On : 19 Oct 2018 22:18
Operator : JU/SJ
Sample : J5590-01
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ALS Vial : 23 Sample Multiplier: 1

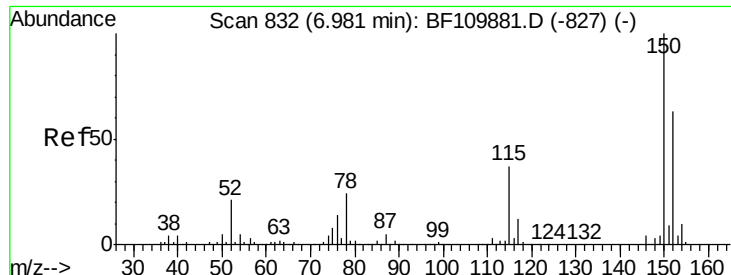
Instrument :
BNA_F
ClientSampleId :
LS-SOIL-1

Quant Time: Oct 20 02:56:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 16 14:58:24 2018
Response via : Initial Calibration

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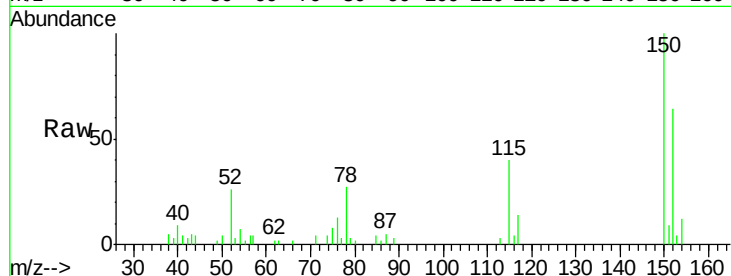
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.96 min Scan# 829
 Delta R.T. -0.02 min
 Lab File: BF110018.D
 Acq: 19 Oct 2018 22:18

Instrument :
 BNA_F
 ClientSampled :
 LS-SOIL-1

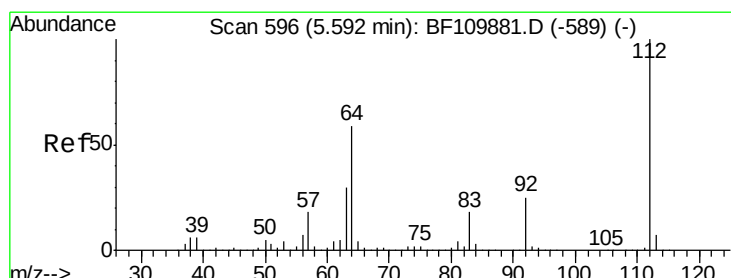
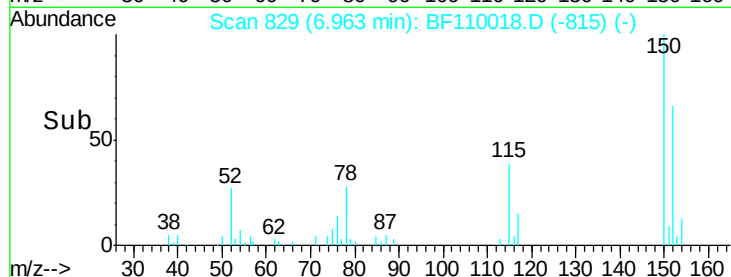
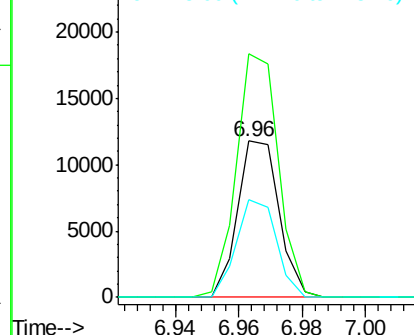
Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.6	122.7	184.1
115	62.1	49.1	73.7

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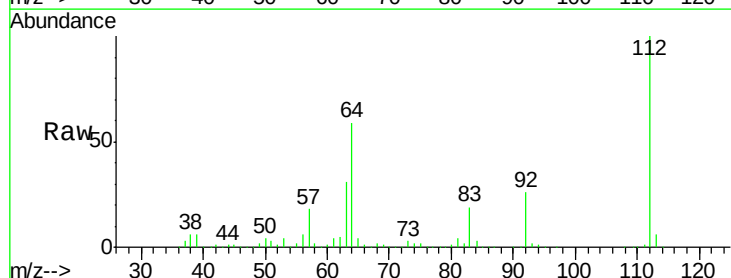


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

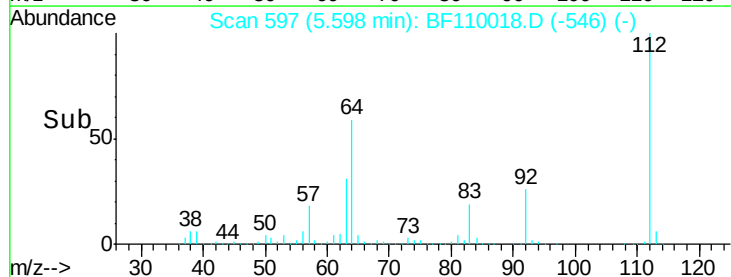
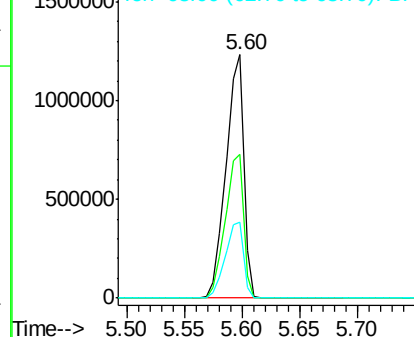


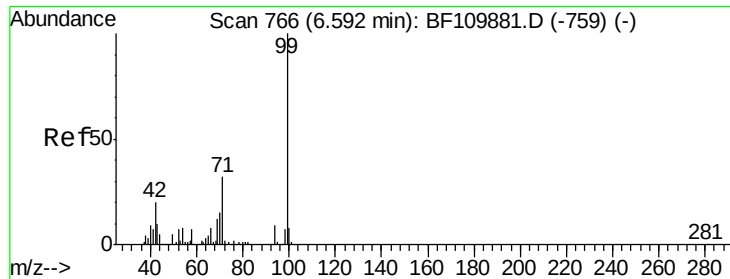
#5
 2-Fluorophenol
 Concen: 1959.012 ng
 RT: 5.60 min Scan# 597
 Delta R.T. -0.00 min
 Lab File: BF110018.D
 Acq: 19 Oct 2018 22:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.1	44.1	66.1
63	31.3	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 2056.486 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-1

Tgt Ion: 99 Resp: 1717139

Ion Ratio Lower Upper

99 100

42 19.2 15.8 23.6

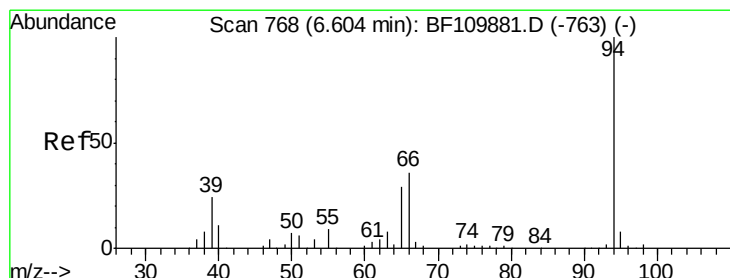
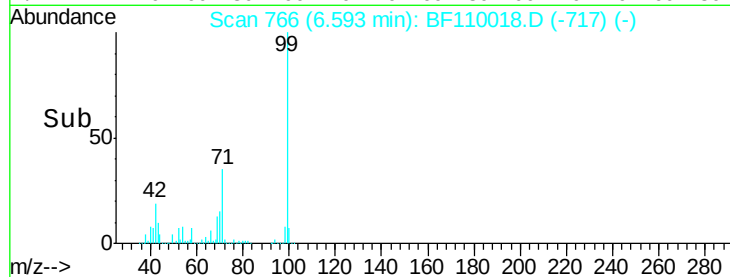
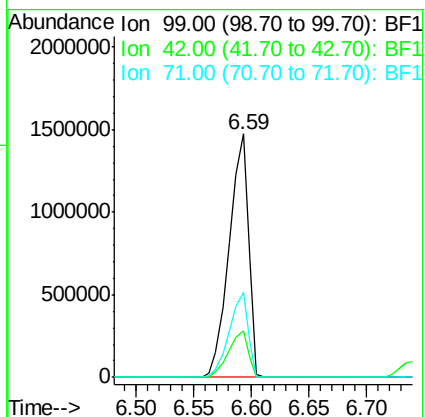
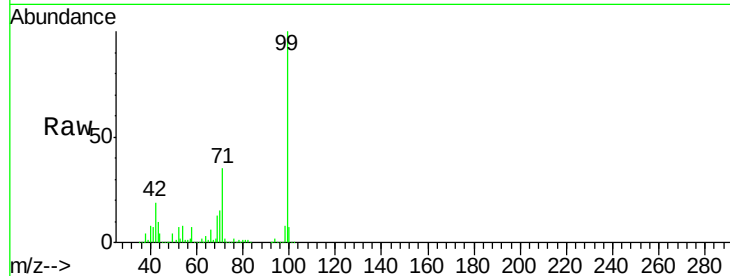
71 34.8 28.0 42.0

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#10

Phenol

Concen: 167.939 ng

RT: 6.60 min Scan# 768

Delta R.T. -0.01 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

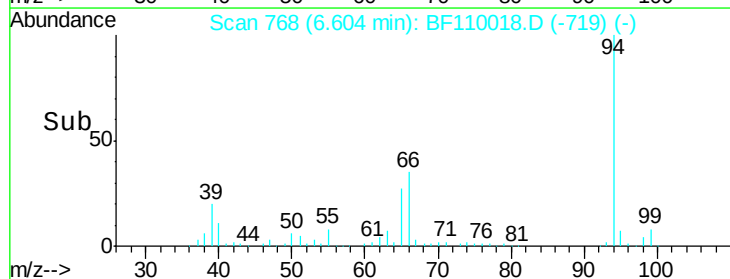
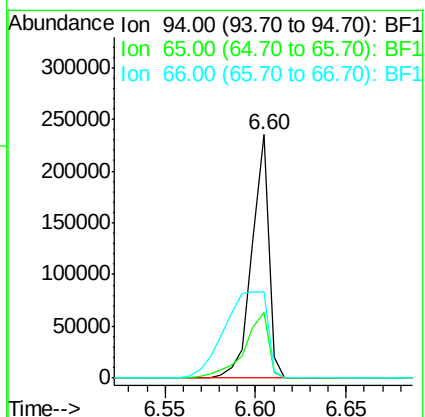
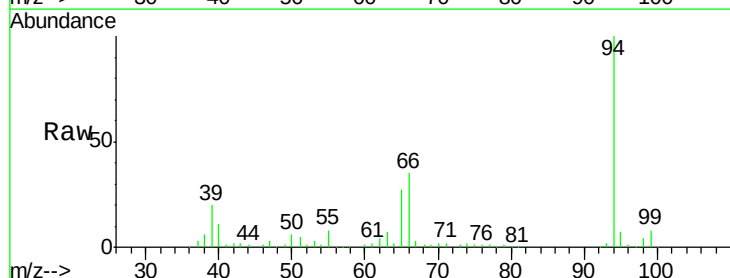
Tgt Ion: 94 Resp: 151398

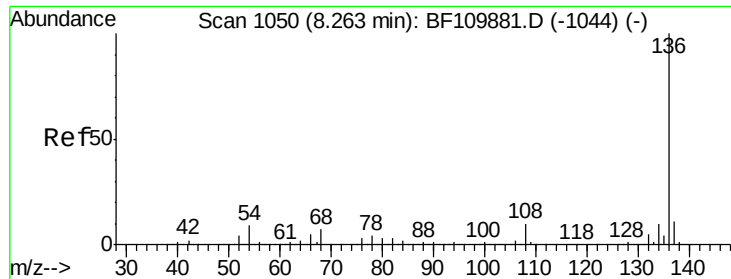
Ion Ratio Lower Upper

94 100

65 26.9 25.3 65.3

66 35.4 54.5 94.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1048

Delta R.T. -0.02 min

Lab File: BF110018.D

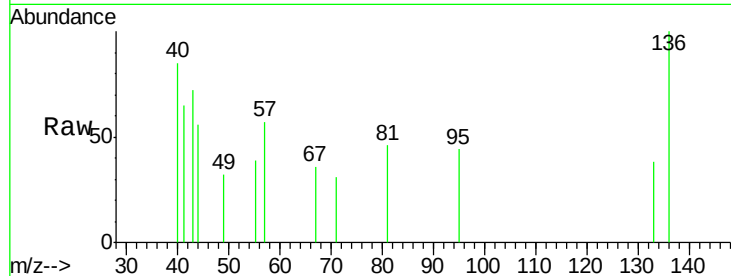
Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

ClientSampled :

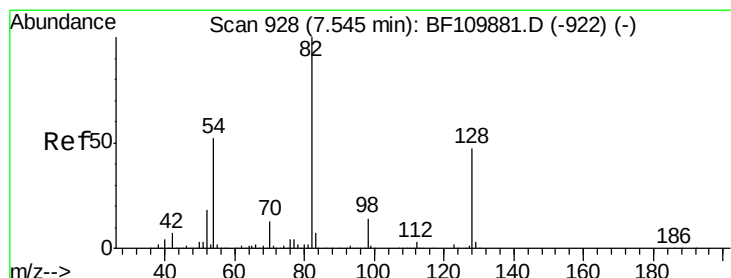
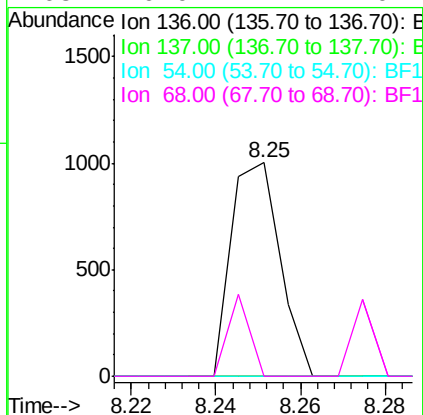
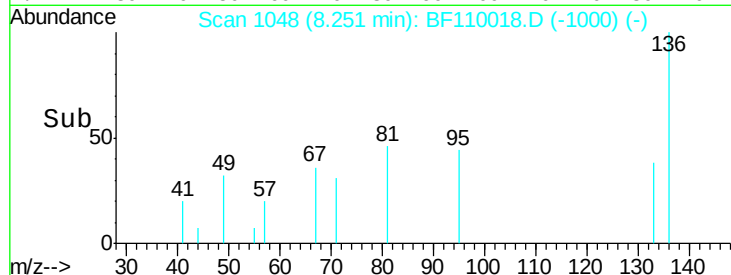
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Tgt Ion	Ratio	Lower	Upper
136	100		
137	0.0	8.8	13.2#
54	0.0	5.4	8.2#
68	0.0	4.2	6.2#

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#23

Nitrobenzene-d5

Concen: 90072.164 ng

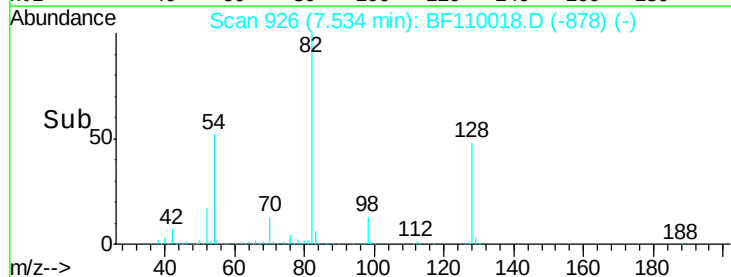
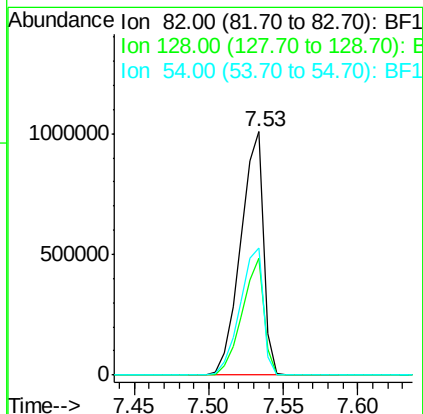
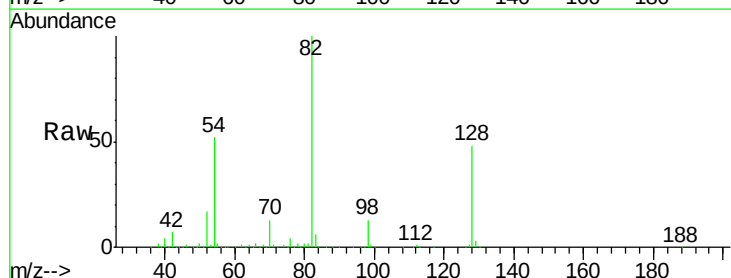
RT: 7.53 min Scan# 926

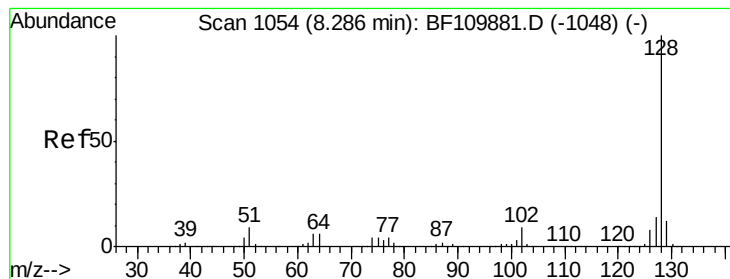
Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.9	34.2	51.2
54	52.0	38.6	58.0





#31

Naphthalene

Concen: 250.444 ng

RT: 8.27 min Scan# 1051

Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

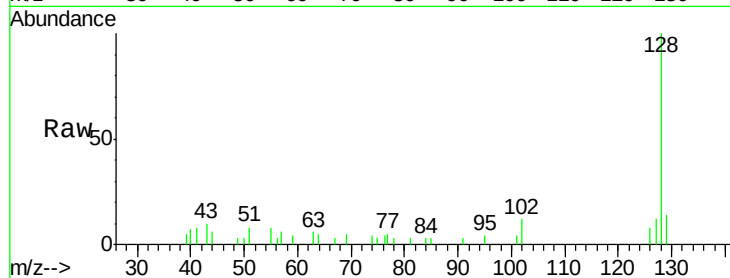
ClientSampled :

LS-SOIL-1

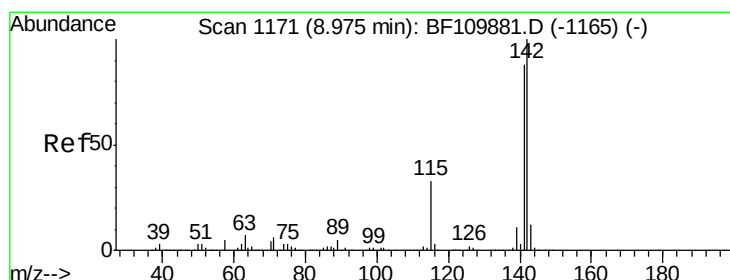
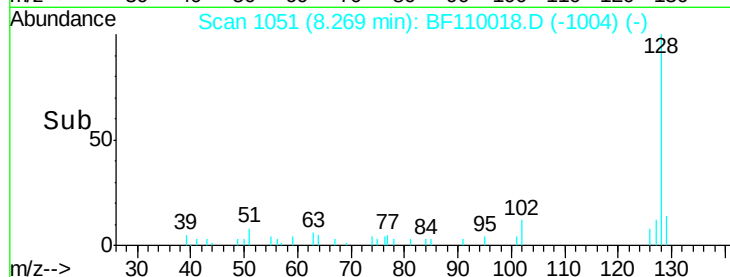
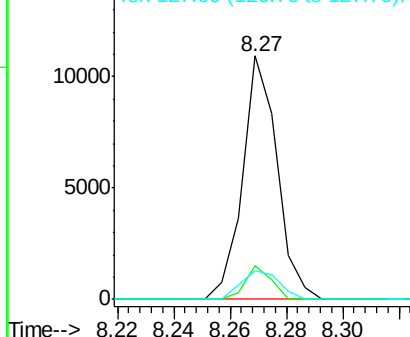
Tgt Ion:	128	Resp:	9222
Ion Ratio	Lower	Upper	
128	100		
129	14.1	8.8	13.2#
127	11.6	10.8	16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 327.758 ng

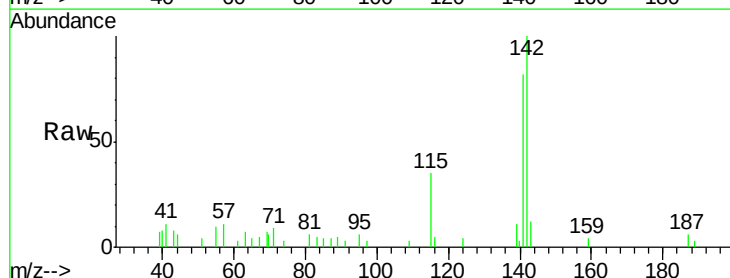
RT: 8.96 min Scan# 1169

Delta R.T. -0.02 min

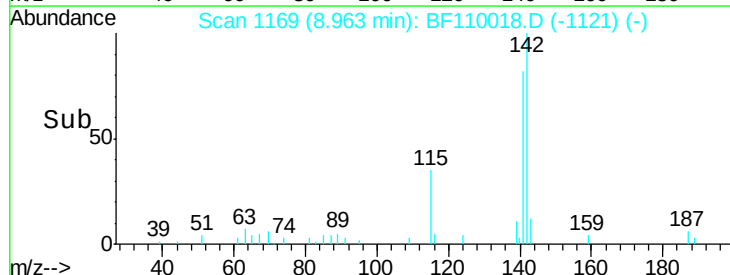
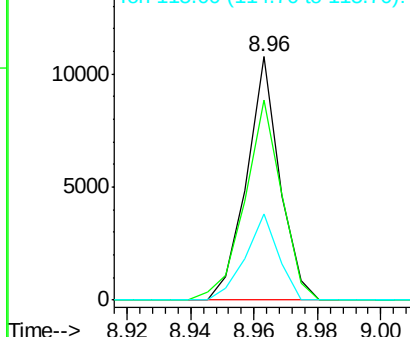
Lab File: BF110018.D

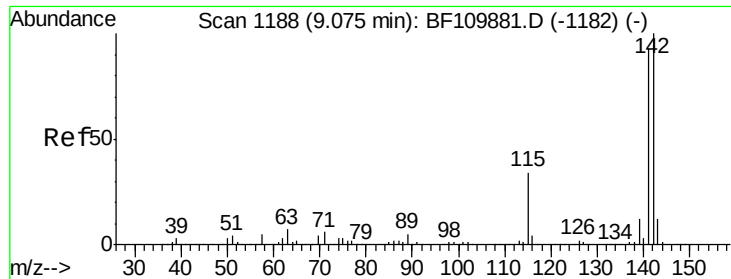
Acq: 19 Oct 2018 22:18

Tgt Ion:	142	Resp:	7815
Ion Ratio	Lower	Upper	
142	100		
141	82.3	71.4	107.2
115	35.4	28.7	43.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





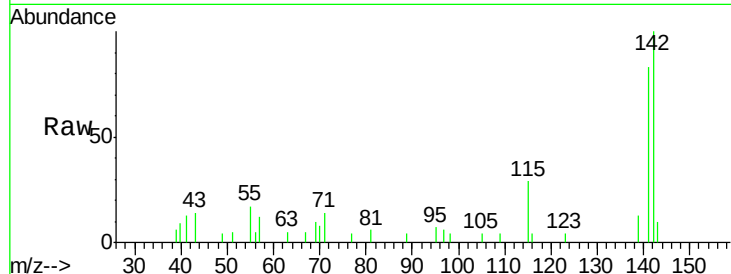
#38
1-Methylnaphthalene
Concen: 280.247 ng
RT: 9.06 min Scan# 1186
Delta R.T. -0.02 min
Lab File: BF110018.D
Acq: 19 Oct 2018 22:18

Instrument :
BNA_F
ClientSampleId :
LS-SOIL-1

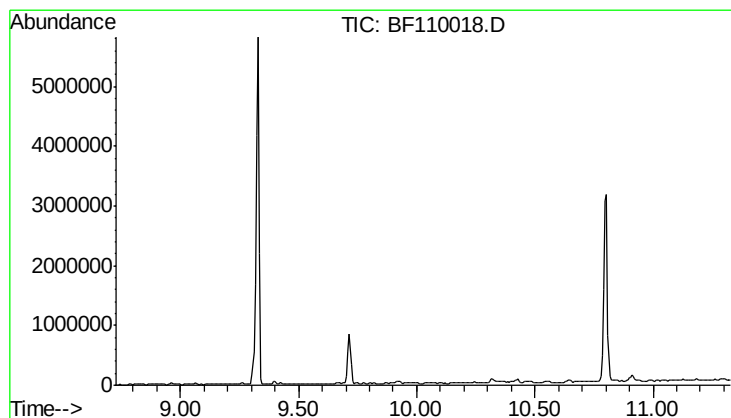
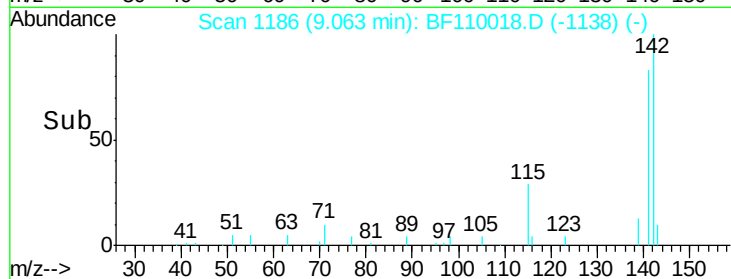
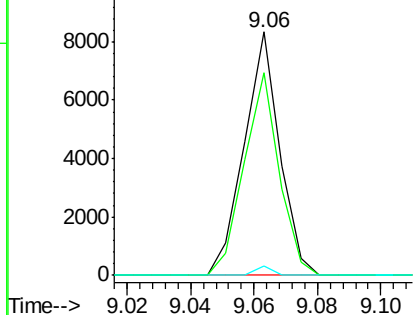
Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.3	74.2	111.4
116	3.8	2.6	4.0

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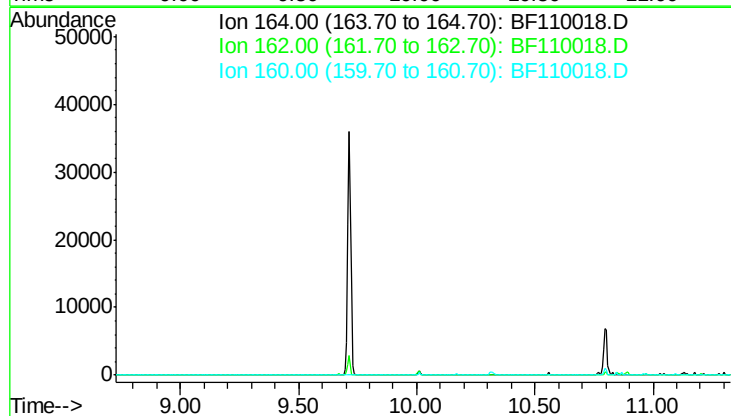
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

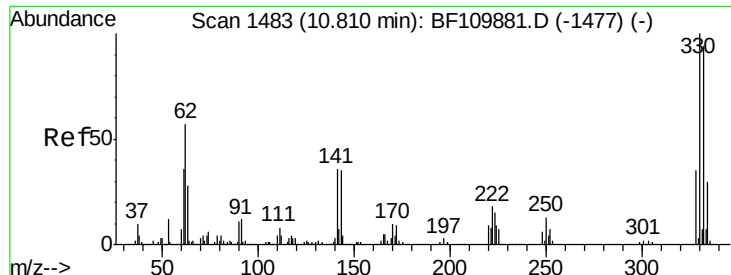


#39
Acenaphthene-d10
Concen: 0.000 ng
Expected RT: 10.03 min

Lab File: BF110018.D
Acq: 19 Oct 2018 22:18

Tgt Ion	Exp Ratio
164	100
162	103.8
160	46.3





#42

2,4,6-Tribromophenol

Concen: 0.000 ng

RT: 10.80 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

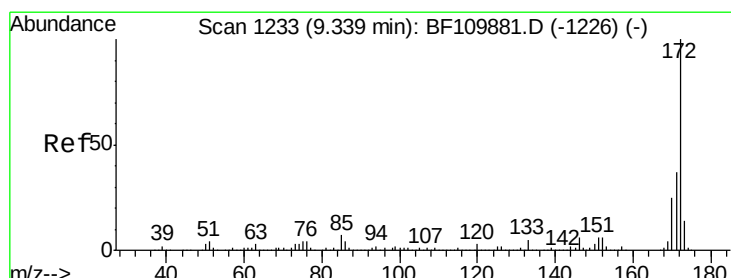
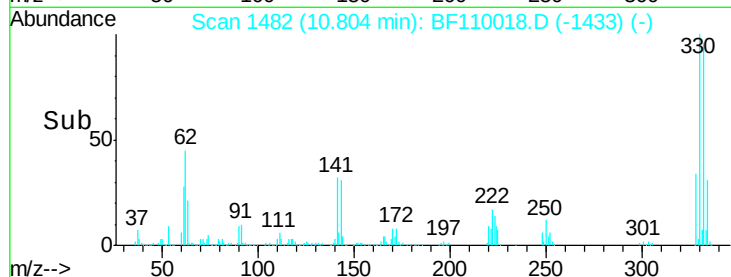
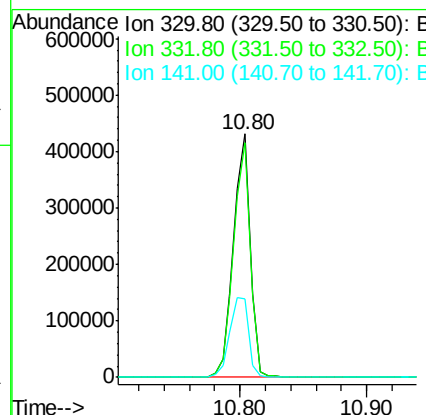
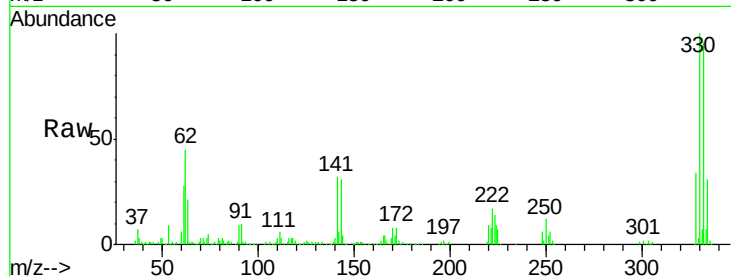
ClientSampled :

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Tgt Ion:	330	Resp:	398236
Ion Ratio		Lower	Upper
330	100		
332	96.1	77.1	115.7
141	36.5	27.0	40.4

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#45

2-Fluorobiphenyl

Concen: 0.000 ng

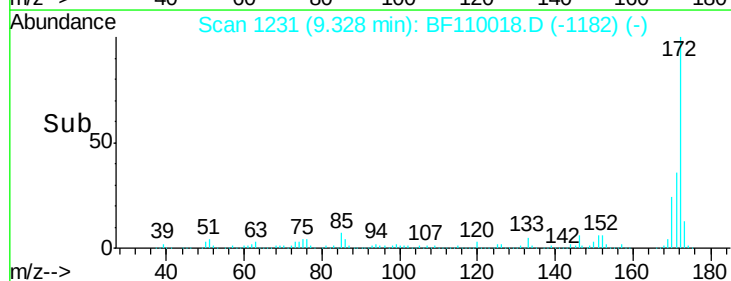
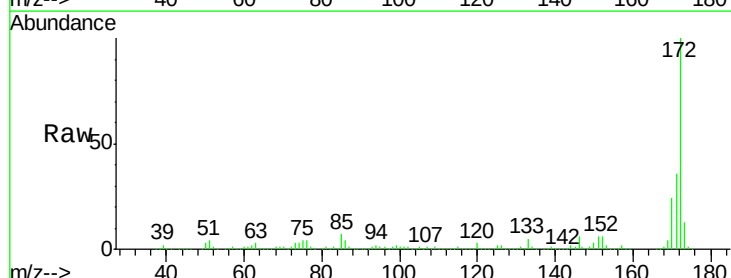
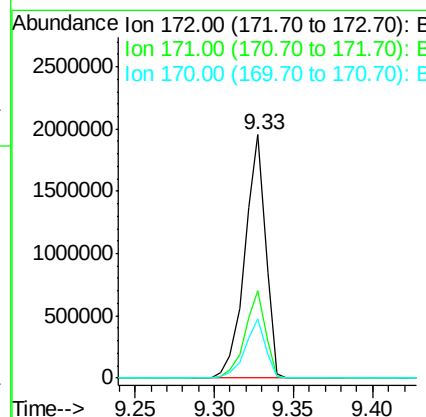
RT: 9.33 min Scan# 1231

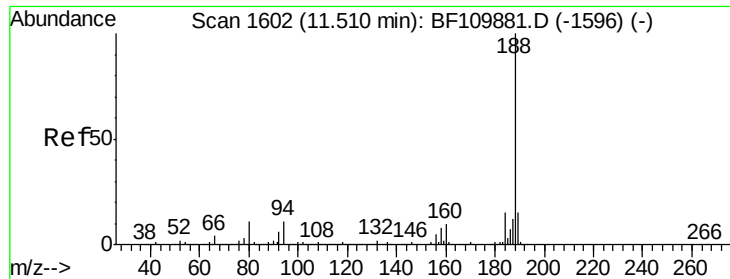
Delta R.T. -0.01 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Tgt Ion:	172	Resp:	1766714
Ion Ratio		Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.3	19.7	29.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1600

Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

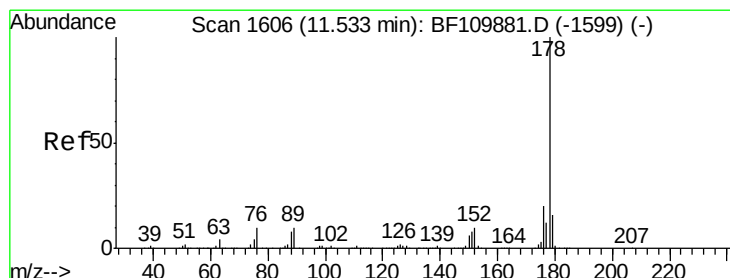
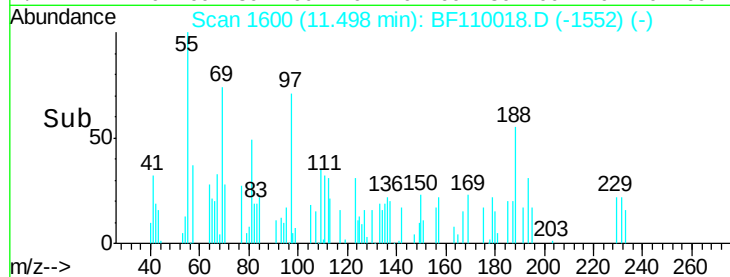
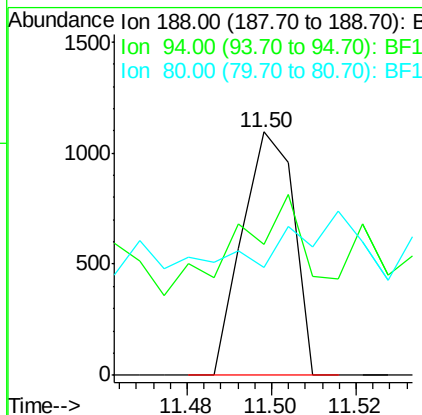
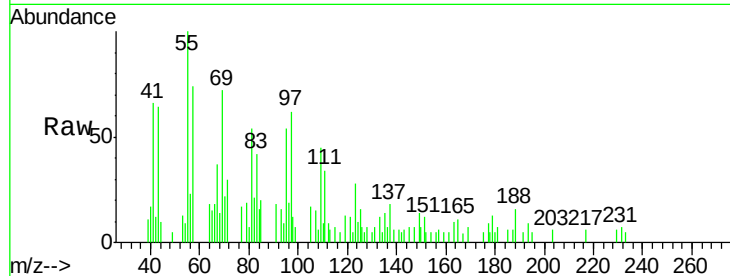
ClientSampled :

LS-SOIL-1

Tgt Ion:	188	Resp:	927
Ion Ratio	Lower	Upper	
188	100		
94	53.6	7.2	10.8#
80	44.6	7.9	11.9#

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#71

Phenanthrene

Concen: 355.897 ng

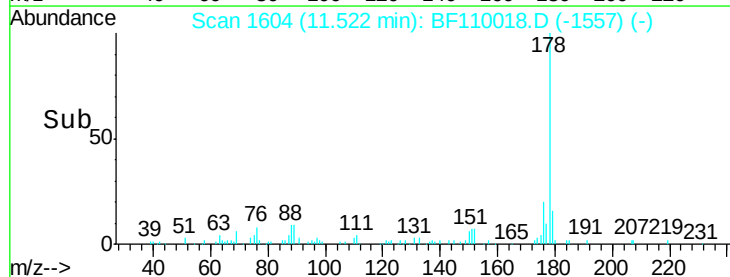
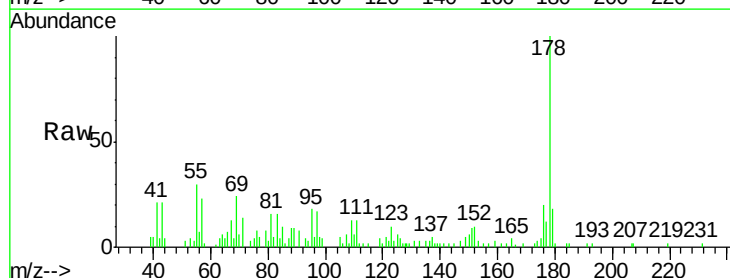
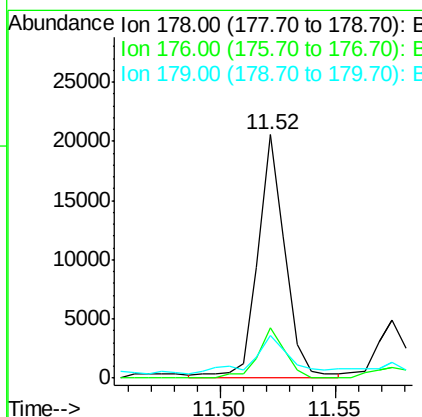
RT: 11.52 min Scan# 1604

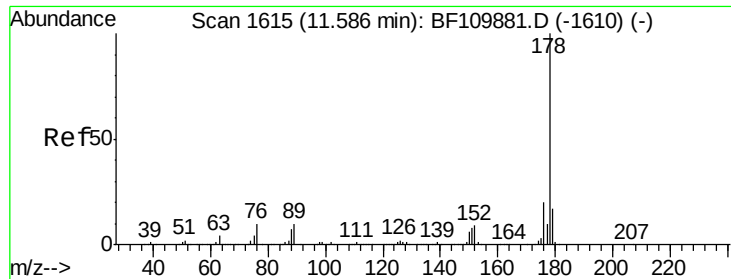
Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Tgt Ion:	178	Resp:	17080
Ion Ratio	Lower	Upper	
178	100		
176	20.5	15.5	23.3
179	17.7	12.5	18.7





#72

Anthracene

Concen: 96.189 ng m

RT: 11.57 min Scan# 1613

Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

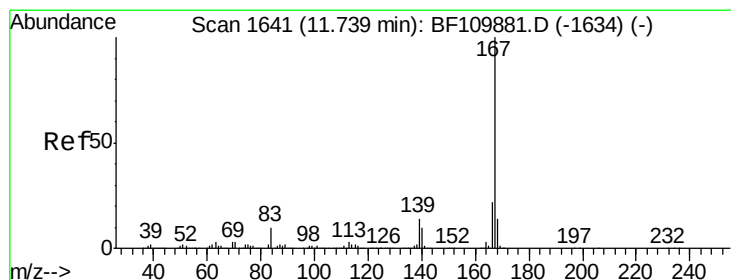
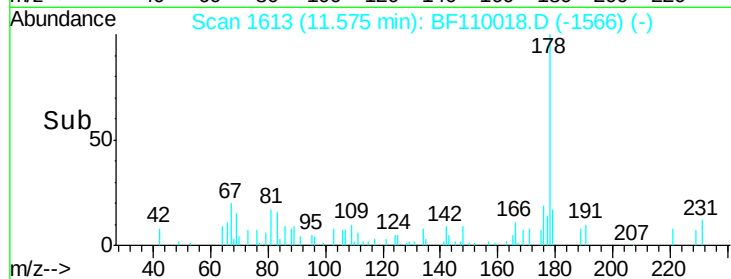
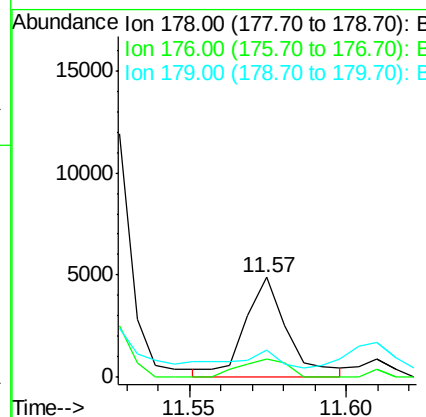
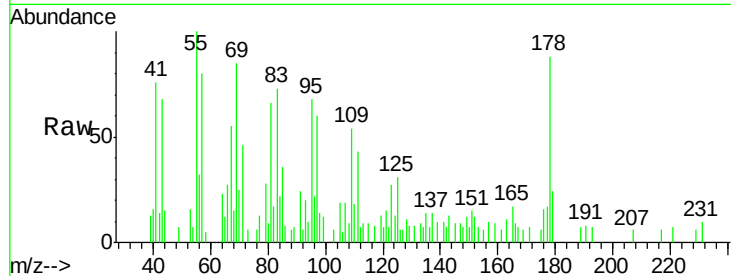
ClientSampleId :

LS-SOIL-1

Tgt Ion:	178	Resp:	4641
Ion Ratio	Lower	Upper	
178	100		
176	17.7	15.4	23.2
179	26.7	12.6	18.8#

Manual Integrations
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#73

Carbazole

Concen: 67.484 ng

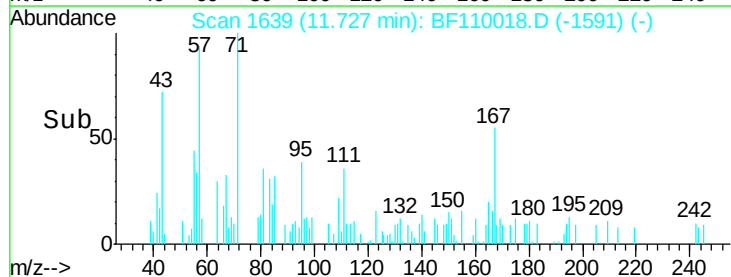
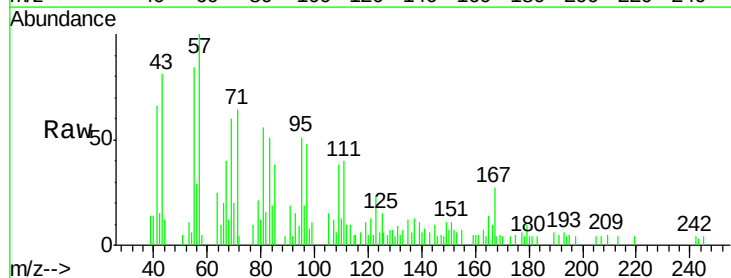
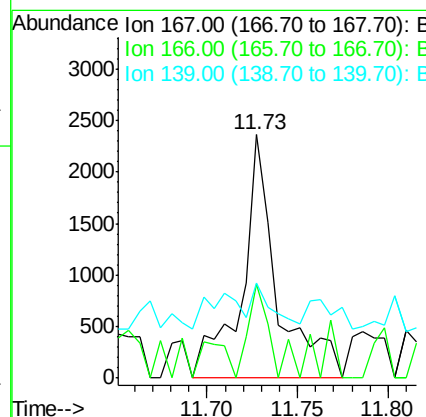
RT: 11.73 min Scan# 1639

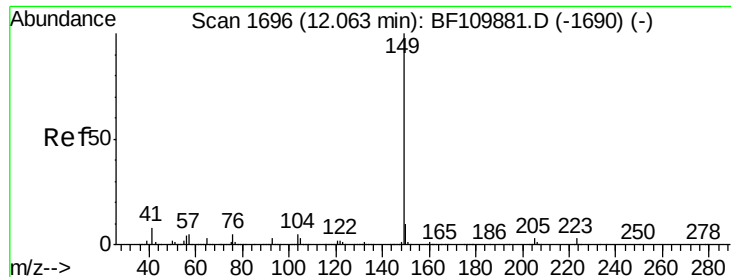
Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Tgt Ion:	167	Resp:	3200
Ion Ratio	Lower	Upper	
167	100		
166	38.7	17.4	26.0#
139	39.3	10.9	16.3#





#74

Di-n-butylphthalate

Concen: 433.278 ng

RT: 12.05 min Scan# 1694

Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

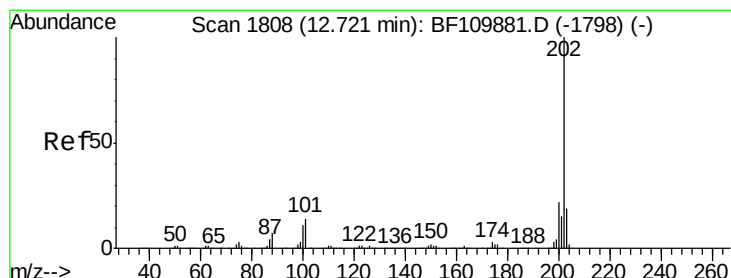
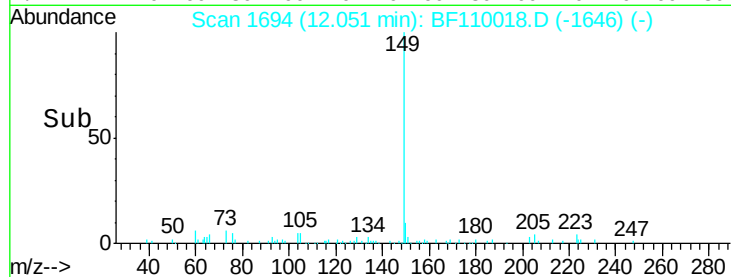
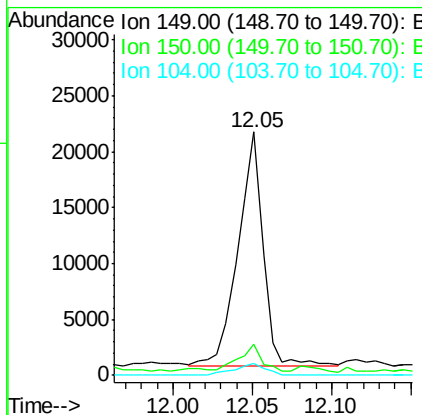
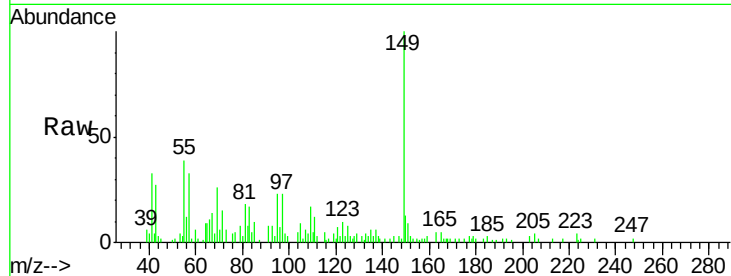
ClientSampleId :

LS-SOIL-1

Tgt Ion:	149	Resp:	22929
Ion Ratio	Lower	Upper	
149	100		
150	12.6	7.7	11.5#
104	4.8	4.2	6.4

Manual Integrations
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Sohil
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#75

Fluoranthene

Concen: 670.175 ng

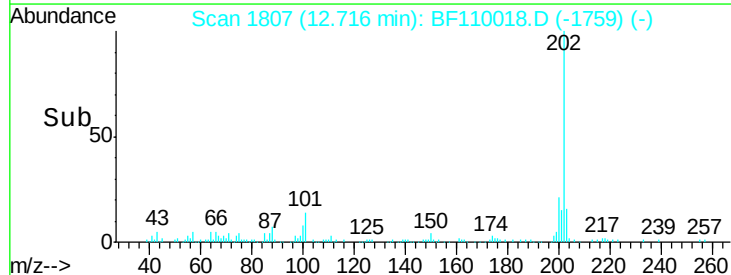
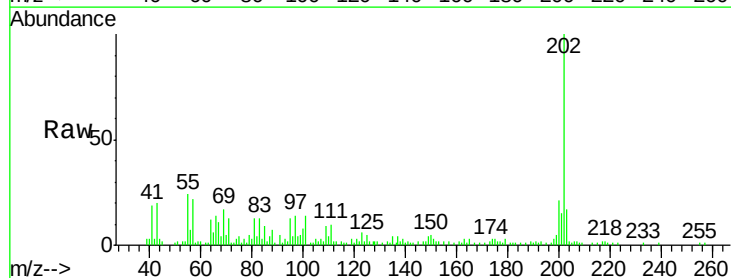
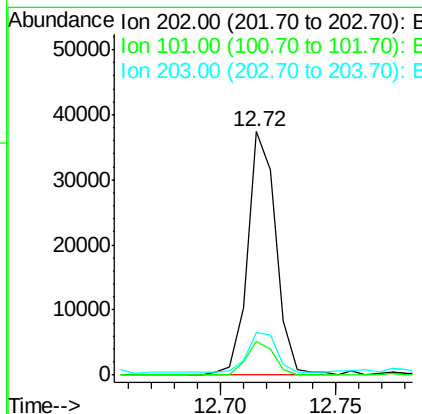
RT: 12.72 min Scan# 1807

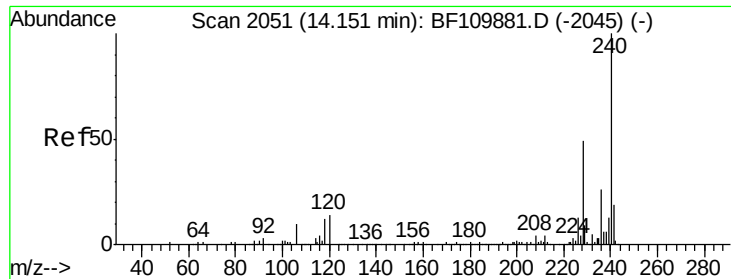
Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Tgt Ion:	202	Resp:	32130
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	31.4
203	17.3	0.0	37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2049

Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

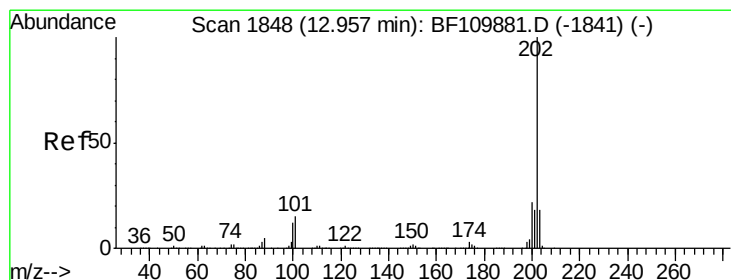
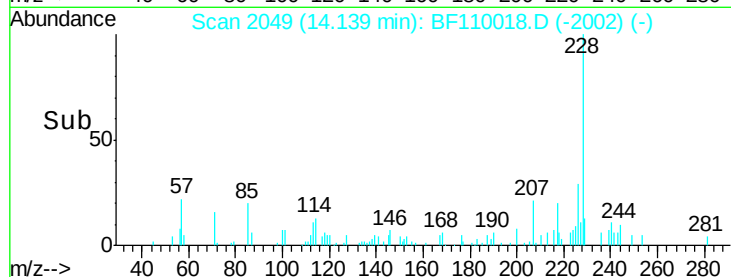
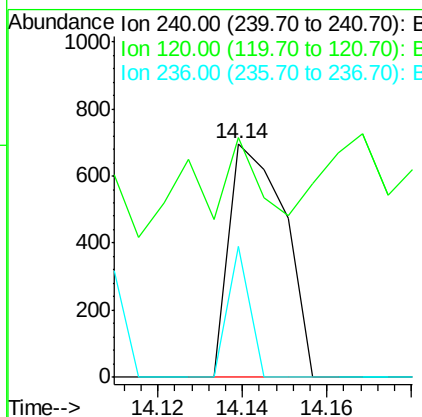
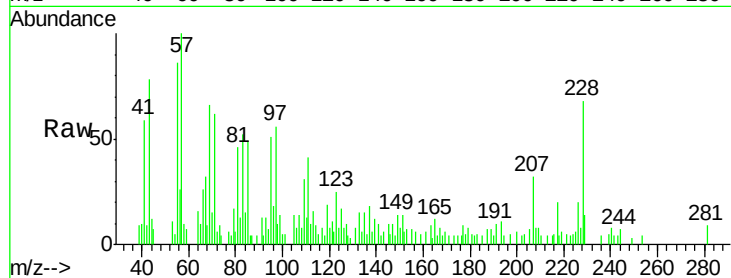
ClientSampleId :

LS-SOIL-1

Tgt Ion:	240	Resp:	632
Ion Ratio	Lower	Upper	
240	100		
120	102.3	8.3	12.5#
236	55.8	21.2	31.8#

Manual Integrations
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#78

Pyrene

Concen: 617.427 ng

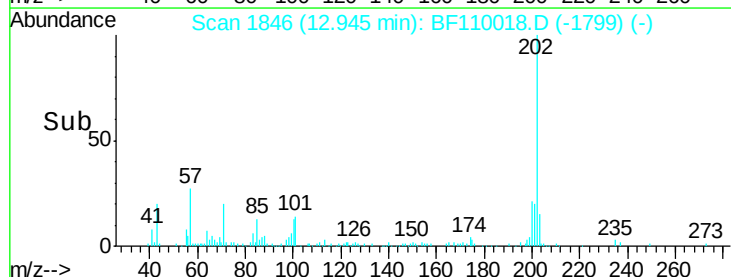
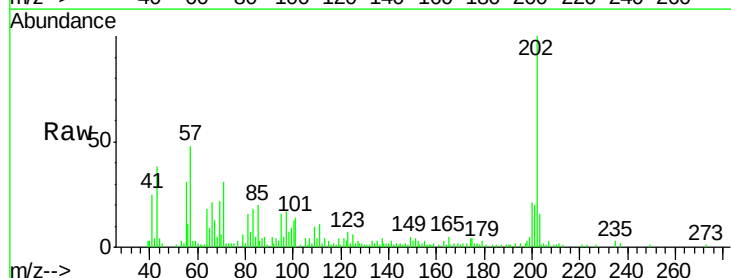
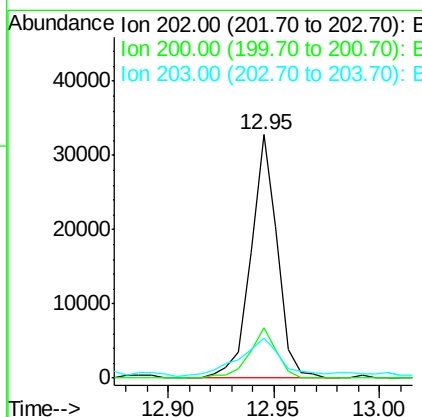
RT: 12.95 min Scan# 1846

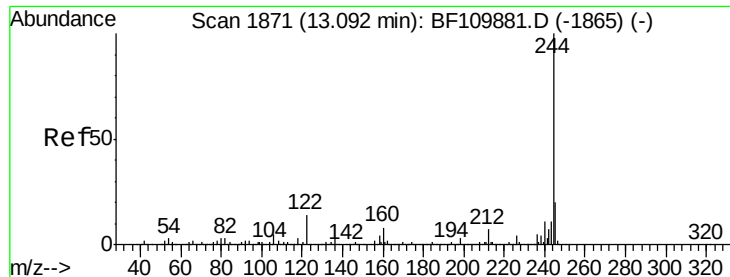
Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Tgt Ion:	202	Resp:	28660
Ion Ratio	Lower	Upper	
202	100		
200	20.7	17.8	26.6
203	16.3	14.2	21.4





#79

Terphenyl-d14

Concen: 52535.179 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-1

Tgt Ion:244 Resp: 1581114

Ion Ratio Lower Upper

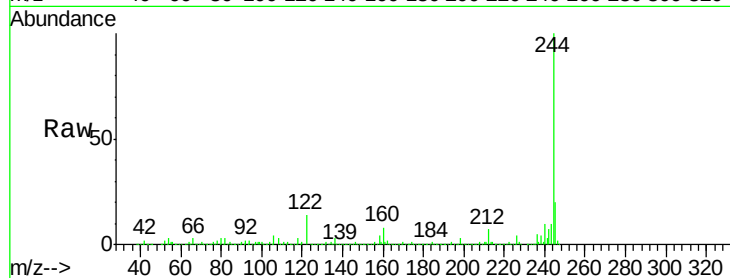
244 100

212 7.2 5.8 8.8

122 13.8 8.7 13.1#

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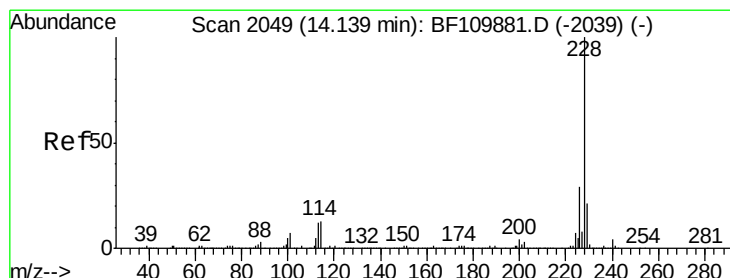
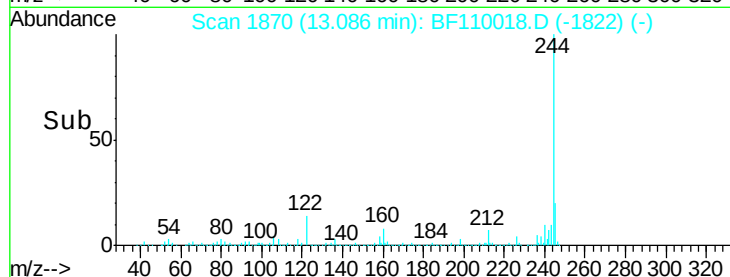
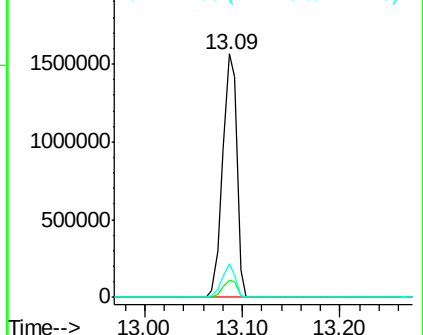
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 320.686 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.02 min

Lab File: BF110018.D

Acq: 19 Oct 2018 22:18

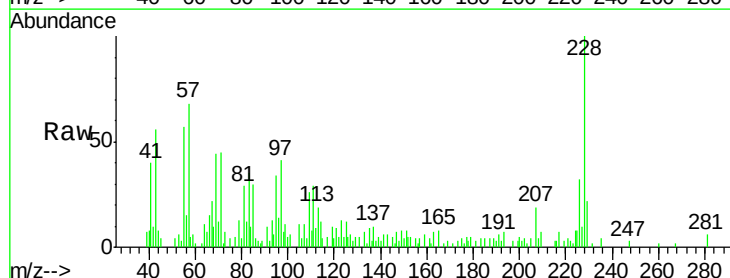
Tgt Ion:228 Resp: 11938

Ion Ratio Lower Upper

228 100

226 31.8 22.1 33.1

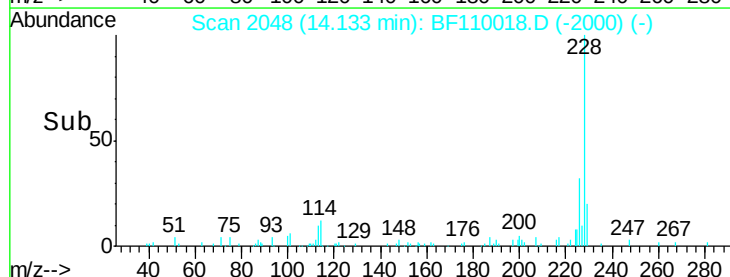
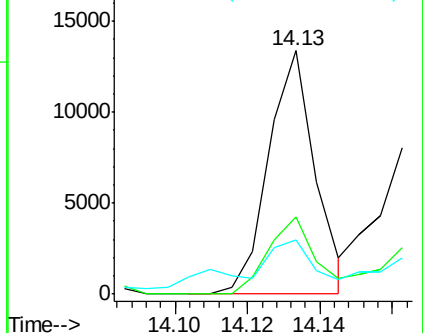
229 22.5 15.6 23.4

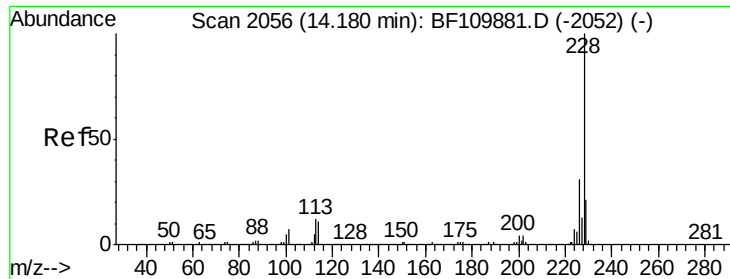


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





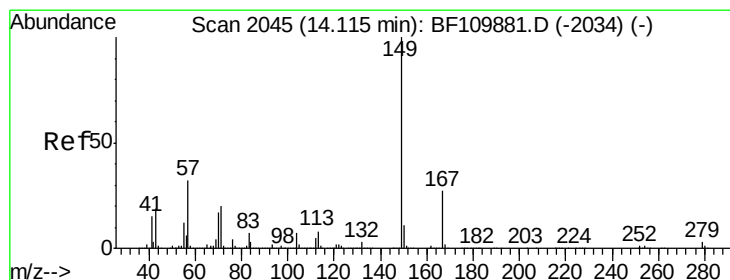
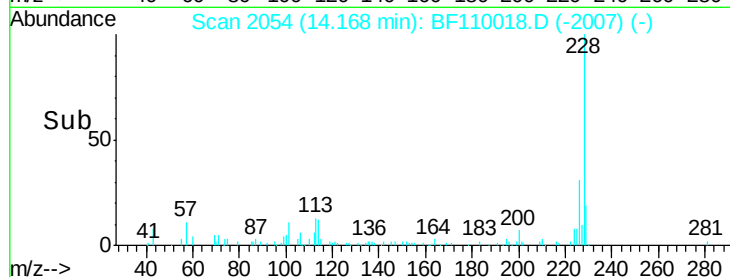
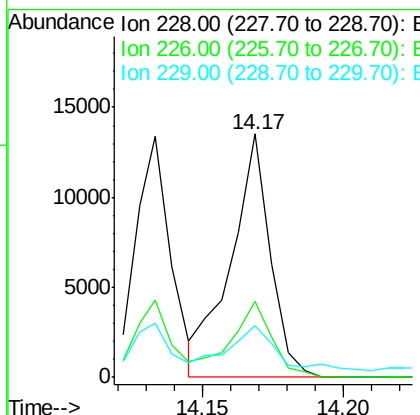
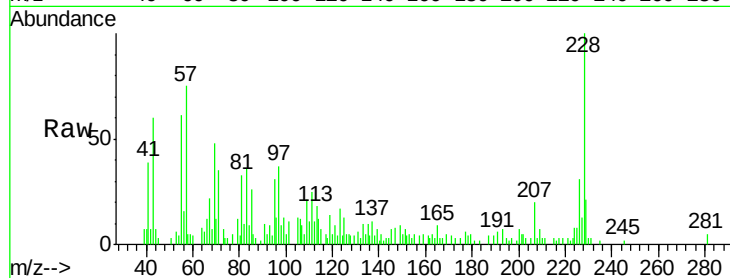
#83
Chrysene
 Concen: 371.086 ng
 RT: 14.17 min Scan# 2054
 Delta R.T. -0.02 min
 Lab File: BF110018.D
 Acq: 19 Oct 2018 22:18

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL-1

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.7	37.1
229	21.4	15.9	23.9

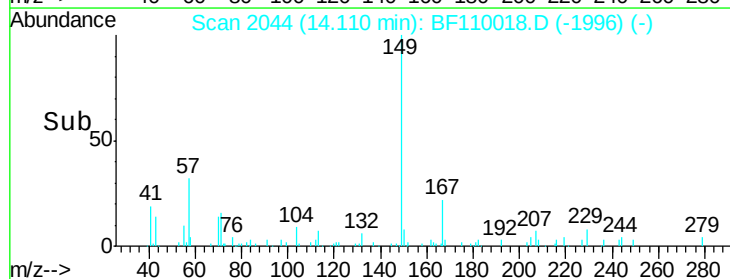
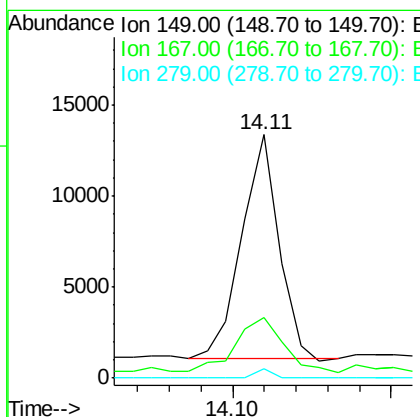
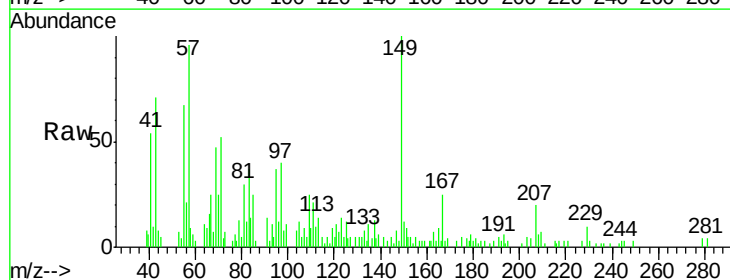
Manual Integrations
 APPROVED

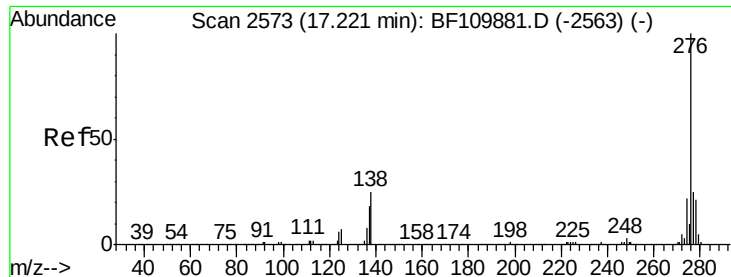
Sohil
 10/22/2018 2:55:41 PM



#84
Bis(2-ethylhexyl)phthalate
 Concen: 401.238 ng
 RT: 14.11 min Scan# 2044
 Delta R.T. -0.02 min
 Lab File: BF110018.D
 Acq: 19 Oct 2018 22:18

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.8	19.8	29.8
279	3.6	2.7	4.1





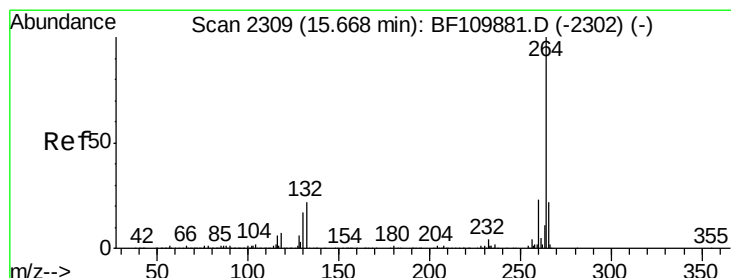
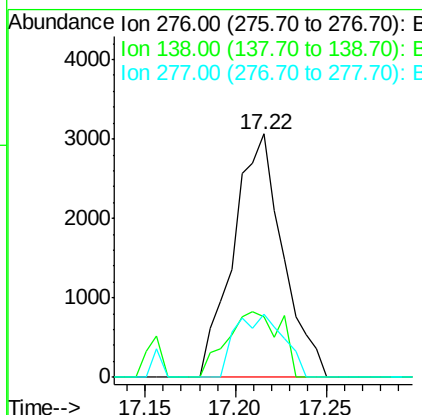
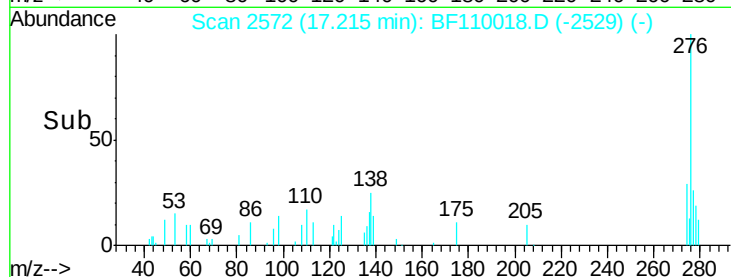
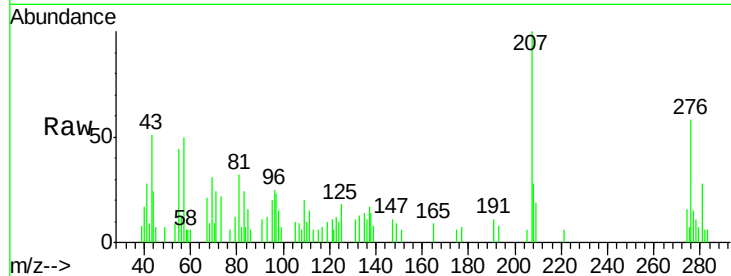
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 204.103 ng
 RT: 17.22 min Scan# 2572
 Delta R.T. -0.05 min
 Lab File: BF110018.D
 Acq: 19 Oct 2018 22:18

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL-1

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.3	18.5	27.7#
277	25.3	20.0	30.0

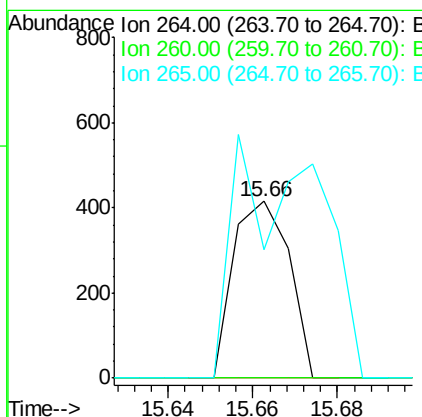
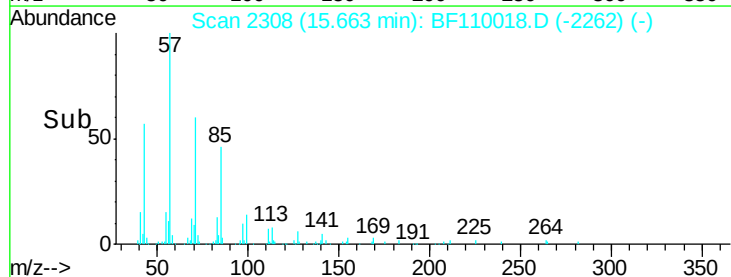
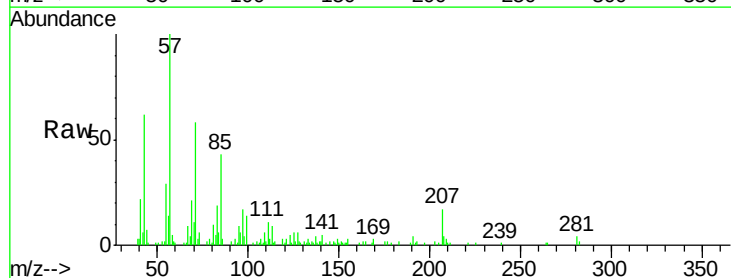
Manual Integrations
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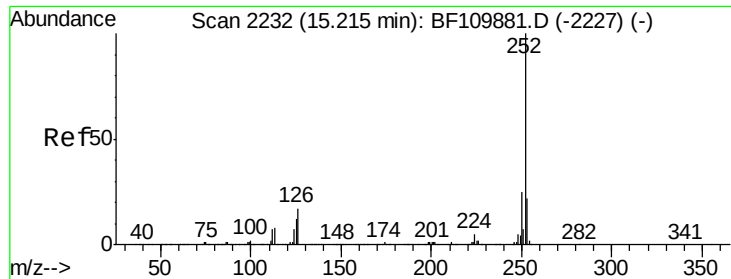
Sohil
 10/22/2018 2:55:41 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.66 min Scan# 2308
 Delta R.T. -0.03 min
 Lab File: BF110018.D
 Acq: 19 Oct 2018 22:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	0.0	18.7	28.1#
265	72.5	16.7	25.1#





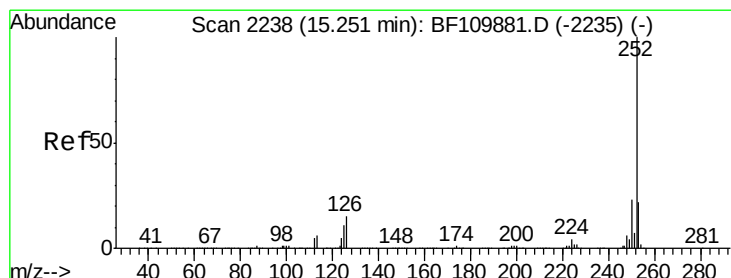
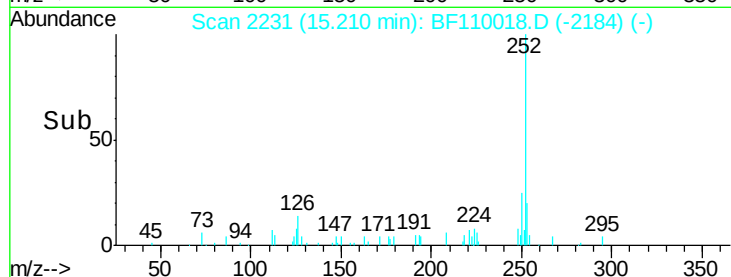
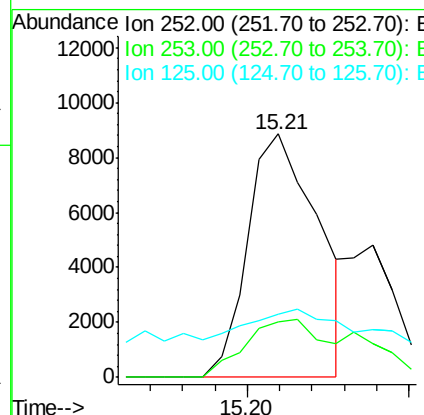
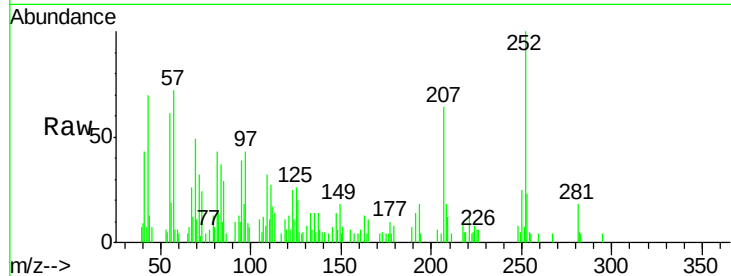
#88
Benzo(b)fluoranthene
Concen: 607.044 ng m
RT: 15.21 min Scan# 2231
Delta R.T. -0.02 min
Lab File: BF110018.D
Acq: 19 Oct 2018 22:18

Instrument :
BNA_F
ClientSampled :
LS-SOIL-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.2	25.8
125	26.0	8.2	12.4#

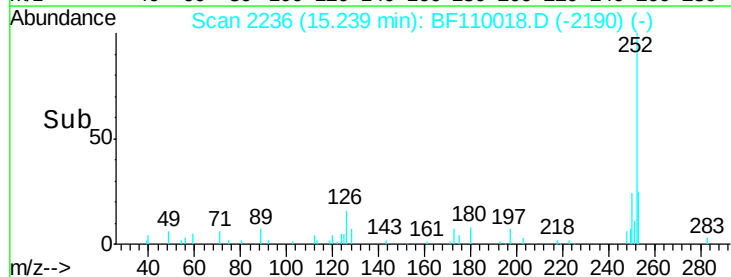
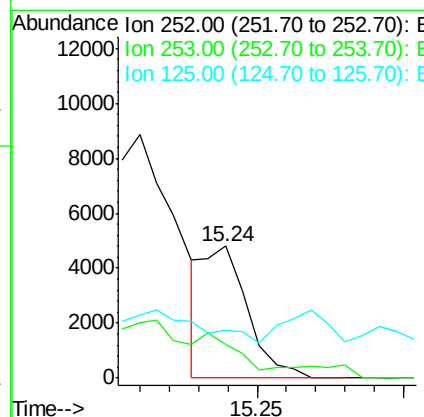
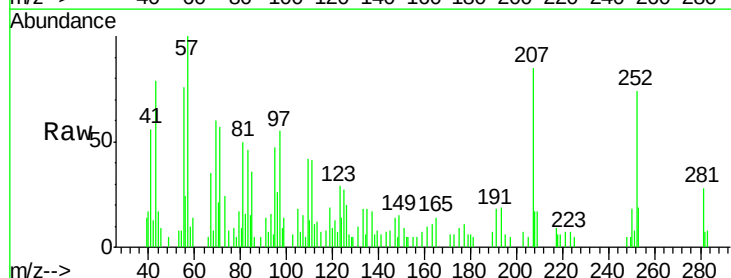
Manual Integrations
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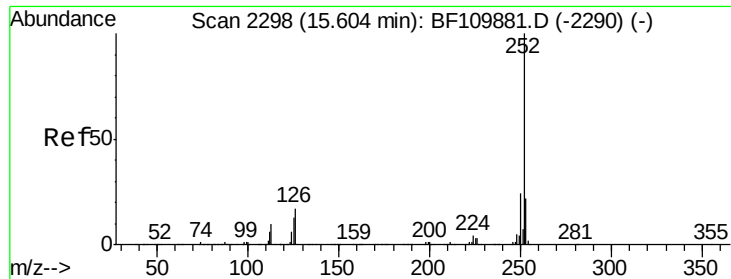
Sohil
10/22/2018 2:55:41 PM



#89
Benzo(k)fluoranthene
Concen: 233.240 ng m
RT: 15.24 min Scan# 2236
Delta R.T. -0.03 min
Lab File: BF110018.D
Acq: 19 Oct 2018 22:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.2	25.8
125	36.6	7.4	11.0#





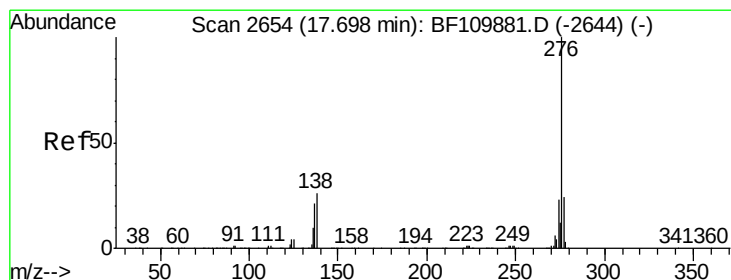
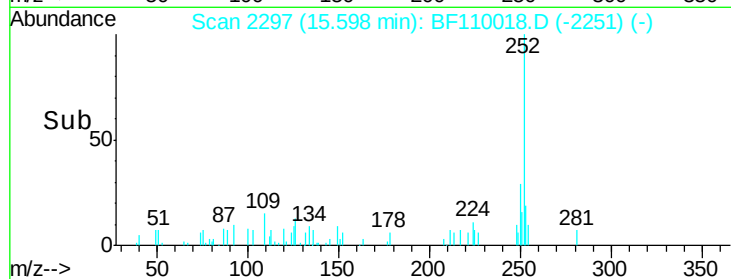
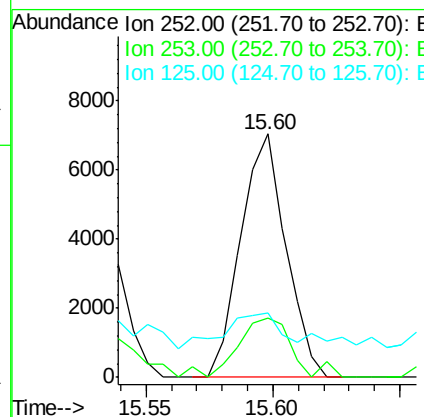
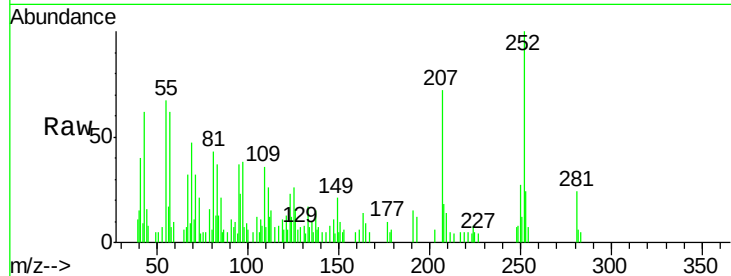
#90
Benzo(a)pyrene
Concen: 430.558 ng
RT: 15.60 min Scan# 2297
Delta R.T. -0.03 min
Lab File: BF110018.D
Acq: 19 Oct 2018 22:18

Instrument :
BNA_F
ClientSampleId :
LS-SOIL-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.4
125	26.3	9.0	13.6

Manual Integrations
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10/22/2018 2:55:41 PM



#92
Benzo(g,h,i)perylene
Concen: 295.425 ng
RT: 17.68 min Scan# 2651
Delta R.T. -0.06 min
Lab File: BF110018.D
Acq: 19 Oct 2018 22:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.8	28.2
138	34.6	16.0	24.0

