

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102318\
 Data File : BF110086.D
 Acq On : 23 Oct 2018 19:15
 Operator : JU/SJ
 Sample : J5164-02
 Misc : LOQ 20PPM
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Quant Time: Oct 24 02:53:39 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 23 15:06:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	171946	20.00	ng	-0.02
21) Naphthalene-d8	8.25	136	722802	20.00	ng	-0.02
39) Acenaphthene-d10	10.01	164	351615	20.00	ng	-0.02
64) Phenanthrene-d10	11.50	188	674866	20.00	ng	-0.02
76) Chrysene-d12	14.14	240	547659	20.00	ng	-0.02
87) Perylene-d12	15.67	264	440164	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.59	112	1329693	125.93	ng	-0.01
7) Phenol-d6	6.59	99	1660403	122.94	ng	-0.01
23) Nitrobenzene-d5	7.53	82	996833	81.80	ng	-0.02
42) 2,4,6-Tribromophenol	10.80	330	436635	125.36	ng	-0.01
45) 2-Fluorobiphenyl	9.33	172	1789228	79.90	ng	-0.01
79) Terphenyl-d14	13.09	244	1844207	70.03	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.85	88	92296	16.684	ng	92
3) Pyridine	3.64	79	245103	19.892	ng	# 86
4) n-Nitrosodimethylamine	3.57	42	114356	22.152	ng	96
6) Aniline	6.63	93	341289	19.399	ng	# 54
8) 2-Chlorophenol	6.75	128	247498	20.331	ng	100
9) Benzaldehyde	6.52	77	163251	17.678	ng	99
10) Phenol	6.60	94	291824	20.214	ng	# 69
11) bis(2-Chloroethyl)ether	6.70	93	234100	19.710	ng	94
12) 1,3-Dichlorobenzene	6.90	146	269327	20.104	ng	98
13) 1,4-Dichlorobenzene	6.98	146	272212	20.091	ng	99
14) 1,2-Dichlorobenzene	7.13	146	249732	19.855	ng	99
15) Benzyl Alcohol	7.10	79	219338	21.116	ng	92
16) 2,2'-oxybis(1-Chloropropan	7.23	45	390328	20.554	ng	67
17) 2-Methylphenol	7.20	107	202159	20.837	ng	# 81
18) Hexachloroethane	7.47	117	99687	20.096	ng	93
19) n-Nitroso-di-n-propylamine	7.37	70	172222	19.877	ng	96
20) 3+4-Methylphenols	7.36	107	263639	21.023	ng	91
22) Acetophenone	7.37	105	351035	21.077	ng	# 98
24) Nitrobenzene	7.55	77	260357	20.694	ng	96
25) Isophorone	7.78	82	477208	22.973	ng	96
26) 2-Nitrophenol	7.86	139	122156	20.403	ng	90
27) 2,4-Dimethylphenol	7.89	122	229129	23.083	ng	98
28) bis(2-Chloroethoxy)methane	7.99	93	303574	21.512	ng	99
29) 2,4-Dichlorophenol	8.10	162	206531	20.595	ng	99
30) 1,2,4-Trichlorobenzene	8.19	180	228597	20.351	ng	96
31) Naphthalene	8.27	128	747629	22.442	ng	99
32) Benzoic acid	7.98	122	119444	15.569	ng	90
33) 4-Chloroaniline	8.32	127	273523	18.244	ng	97
34) Hexachlorobutadiene	8.38	225	122623	19.661	ng	98
35) Caprolactam	8.67	113	69207	19.800	ng	# 84
36) 4-Chloro-3-methylphenol	8.79	107	226666	20.902	ng	95
37) 2-Methylnaphthalene	8.96	142	507136	23.009	ng	99
38) 1-Methylnaphthalene	9.06	142	480687	22.568	ng	98
40) 1,2,4,5-Tetrachlorobenzene	9.13	216	217204	19.826	ng	99

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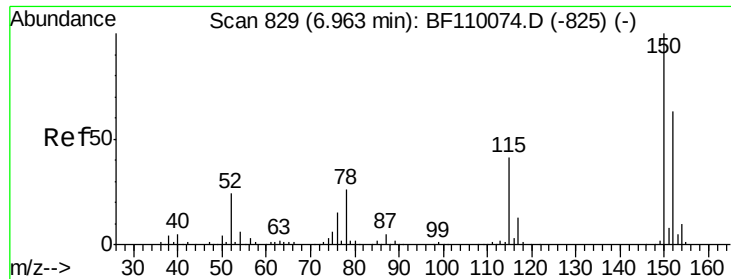
Instrument :
 BNA_F
 ClientSampleId :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.11	237	122393	21.848	ng	100
43) 2,4,6-Trichlorophenol	9.23	196	144317	20.423	ng	97
44) 2,4,5-Trichlorophenol	9.27	196	158584	21.232	ng	96
46) 1,1'-Biphenyl	9.43	154	625766	19.680	ng	99
47) 2-Chloronaphthalene	9.45	162	480124	20.585	ng	99
48) 2-Nitroaniline	9.55	65	145253	20.551	ng	95
49) Acenaphthylene	9.87	152	744228	22.092	ng	99
50) Dimethylphthalate	9.72	163	547420	21.091	ng	100
51) 2,6-Dinitrotoluene	9.79	165	119804	21.428	ng	93
52) Acenaphthene	10.04	154	474010	21.270	ng	98
53) 3-Nitroaniline	9.96	138	115370	17.352	ng	88
54) 2,4-Dinitrophenol	10.06	184	41289	22.579	ng	86
55) Dibenzofuran	10.22	168	658120	21.092	ng	95
56) 4-Nitrophenol	10.10	139	105794	21.500	ng	97
57) 2,4-Dinitrotoluene	10.19	165	159419	22.449	ng	# 79
58) Fluorene	10.56	166	523075	22.525	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.33	232	132138	21.704	ng	94
60) Diethylphthalate	10.42	149	529626	20.904	ng	100
61) 4-Chlorophenyl-phenylether	10.55	204	250495	20.448	ng	98
62) 4-Nitroaniline	10.57	138	138680	20.972	ng	93
63) Azobenzene	10.71	77	540535	21.493	ng	96
65) 4,6-Dinitro-2-methylphenol	10.60	198	57894	18.777	ng	90
66) n-Nitrosodiphenylamine	10.66	169	458881	20.730	ng	98
67) 4-Bromophenyl-phenylether	11.04	248	149861	20.472	ng	95
68) Hexachlorobenzene	11.10	284	158871	20.454	ng	# 93
69) Atrazine	11.19	200	148738	21.262	ng	98
70) Pentachlorophenol	11.30	266	74641	16.480	ng	99
71) Phenanthrene	11.53	178	784584	22.219	ng	99
72) Anthracene	11.57	178	820784	23.189	ng	99
73) Carbazole	11.73	167	710765	20.567	ng	99
74) Di-n-butylphthalate	12.05	149	844363	21.633	ng	98
75) Fluoranthene	12.72	202	806760	22.511	ng	100
77) Benzidine	12.83	184	250018	11.848	ng	98
78) Pyrene	12.94	202	810174	20.635	ng	98
80) Butylbenzylphthalate	13.55	149	357634	20.986	ng	98
81) Benzo(a)anthracene	14.13	228	713007	21.954	ng	99
82) 3,3'-Dichlorobenzidine	14.09	252	205343	18.157	ng	98
83) Chrysene	14.17	228	667056	21.625	ng	98
84) Bis(2-ethylhexyl)phthalate	14.10	149	490896	21.309	ng	97
85) Di-n-octyl phthalate	14.73	149	776487	21.677	ng	98
86) Indeno(1,2,3-cd)pyrene	17.22	276	516873	20.198	ng	# 95
88) Benzo(b)fluoranthene	15.21	252	587896	23.129	ng	98
89) Benzo(k)fluoranthene	15.24	252	562545	22.512	ng	99
90) Benzo(a)pyrene	15.60	252	531744	22.735	ng	96
91) Dibenzo(a,h)anthracene	17.24	278	435483	21.579	ng	98
92) Benzo(g,h,i)perylene	17.69	276	419540	21.097	ng	96

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

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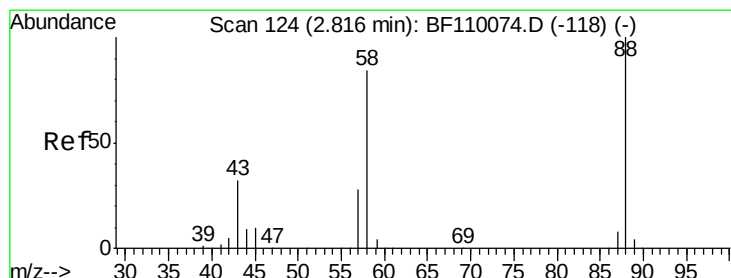
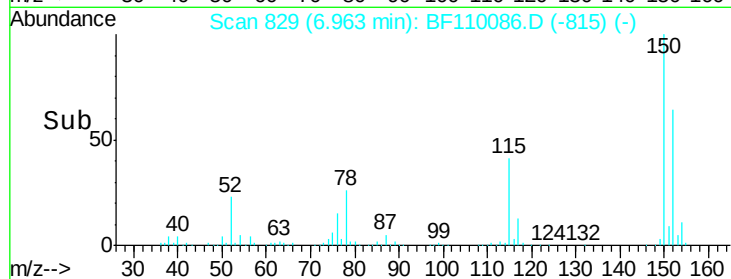
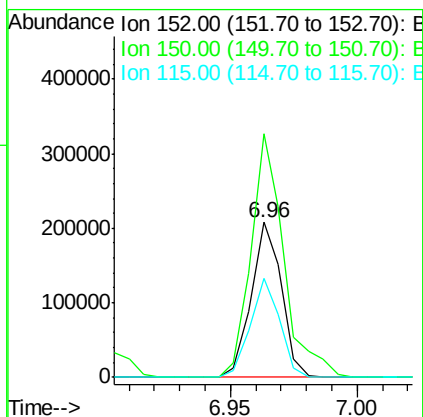
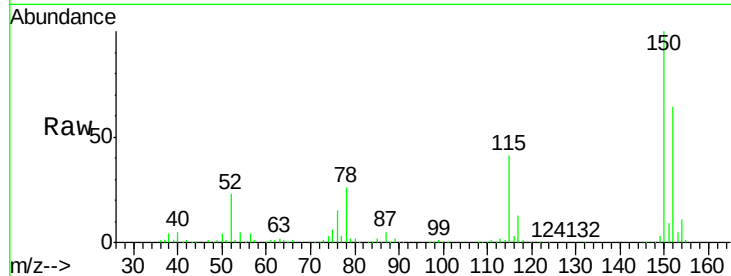


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 829
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

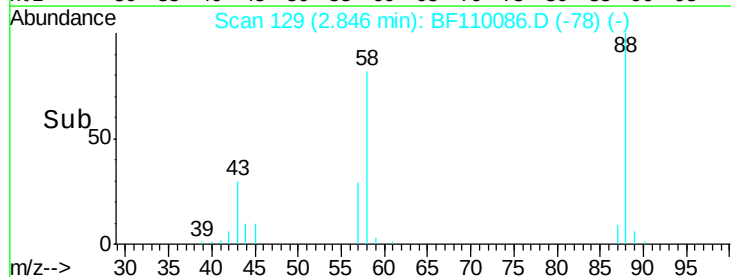
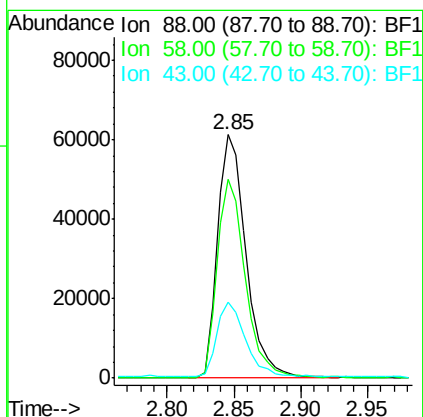
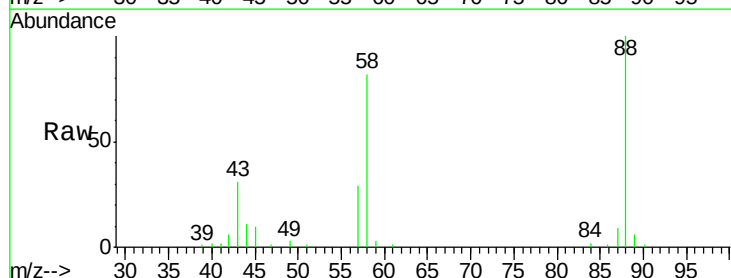
Tgt Ion:152 Resp: 171946
Ion Ratio Lower Upper
152 100
150 157.4 122.7 184.1
115 63.8 49.1 73.7

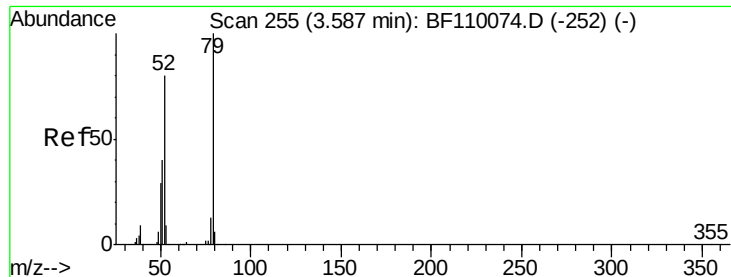


#2

1,4-Dioxane
Concen: 16.684 ng
RT: 2.85 min Scan# 129
Delta R.T. -0.00 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion: 88 Resp: 92296
Ion Ratio Lower Upper
88 100
58 80.7 57.1 85.7
43 30.6 24.1 36.1





#3

Pyridine

Concen: 19.892 ng

RT: 3.64 min Scan# 264

Delta R.T. 0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

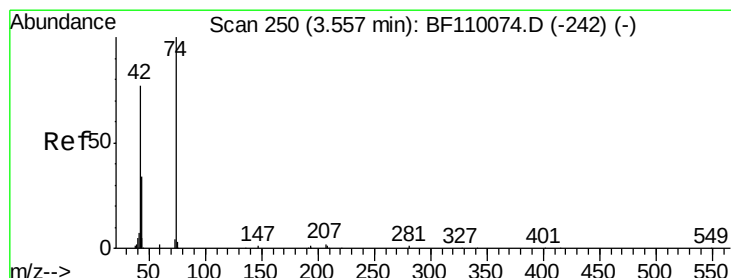
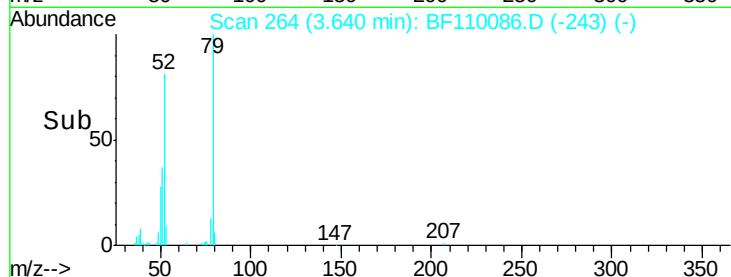
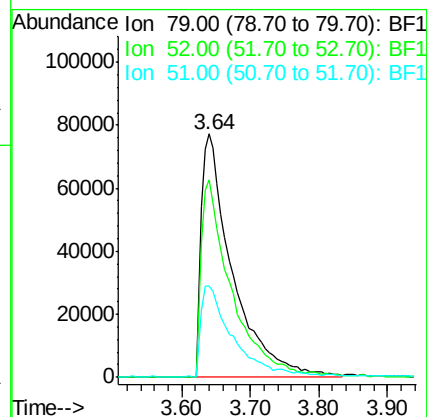
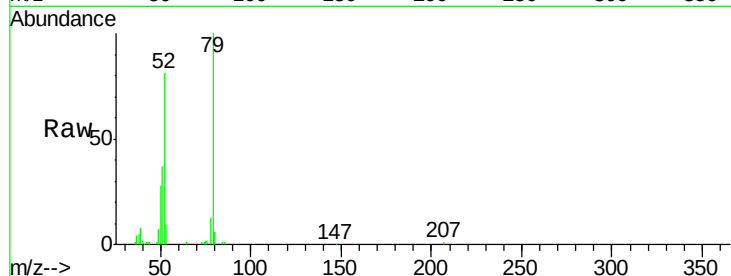
Tgt Ion: 79 Resp: 245103

Ion Ratio Lower Upper

79 100

52 81.4 53.1 79.7#

51 37.5 27.4 41.2



#4

n-Nitrosodimethylamine

Concen: 22.152 ng

RT: 3.57 min Scan# 252

Delta R.T. -0.01 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

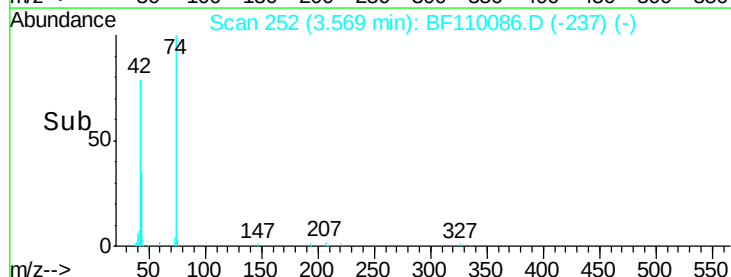
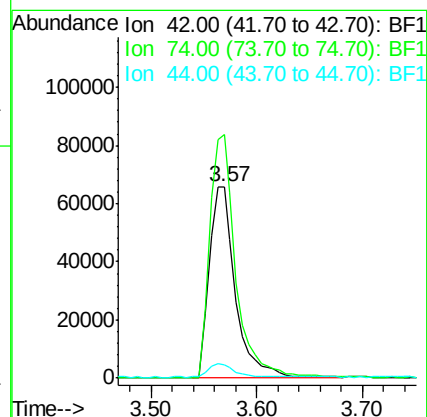
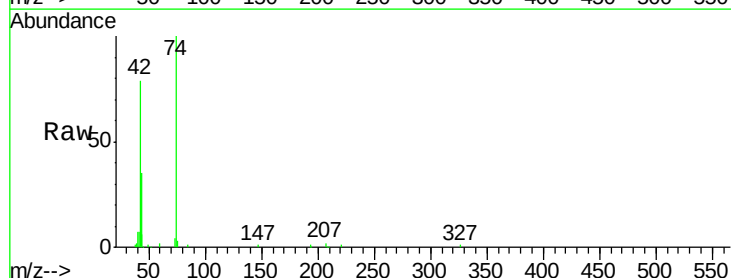
Tgt Ion: 42 Resp: 114356

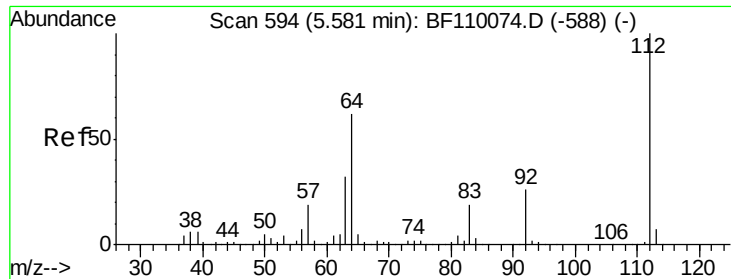
Ion Ratio Lower Upper

42 100

74 127.1 105.5 158.3

44 7.2 4.9 7.3





#5

2-Fluorophenol

Concen: 125.931 ng

RT: 5.59 min Scan# 595

Delta R.T. -0.01 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

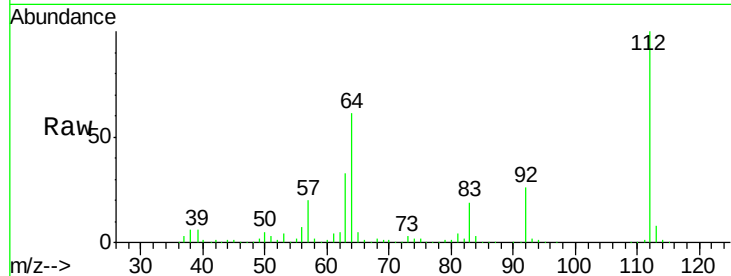
Tgt Ion: 112 Resp: 1329693

Ion Ratio Lower Upper

112 100

64 61.4 44.1 66.1

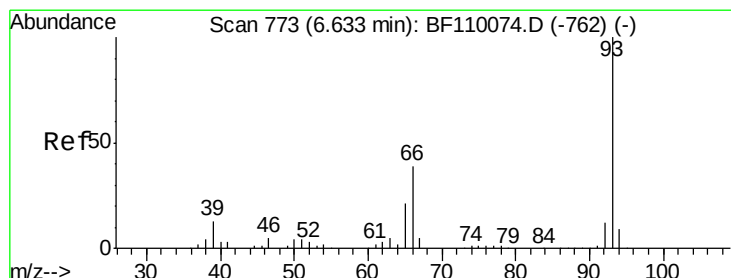
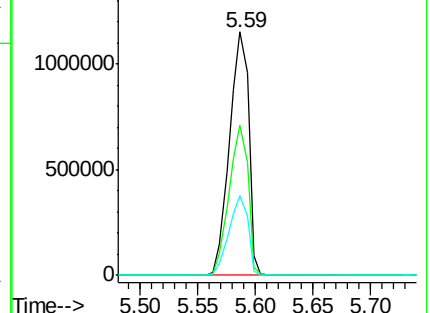
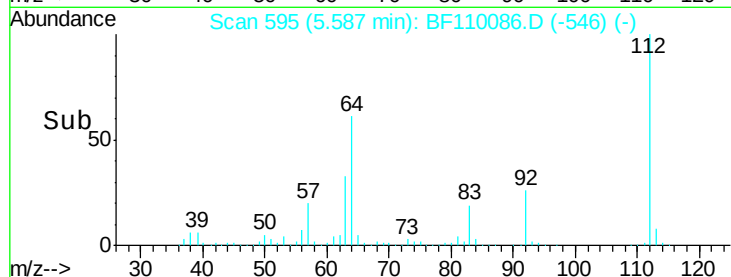
63 32.7 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 19.399 ng

RT: 6.63 min Scan# 772

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

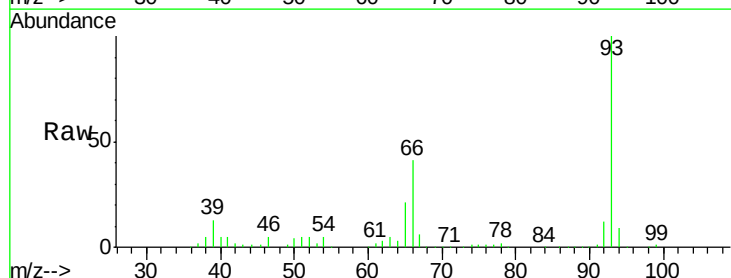
Tgt Ion: 93 Resp: 341289

Ion Ratio Lower Upper

93 100

66 40.9 67.4 101.0#

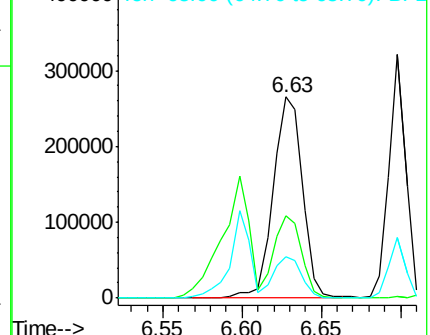
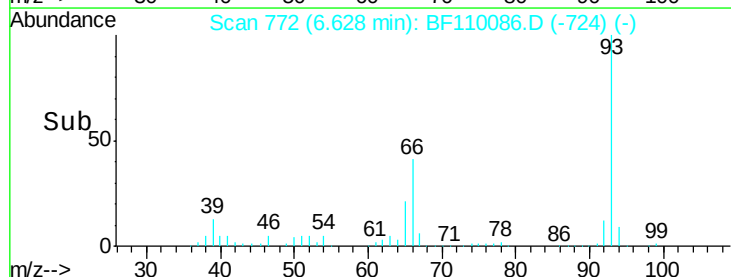
65 20.7 41.0 61.4#

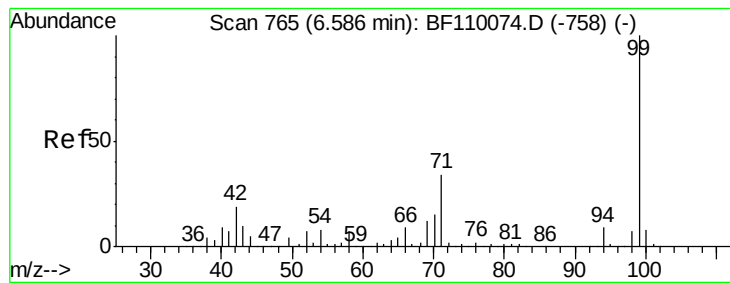


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 122.942 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF110086.D

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ClientSampleId :

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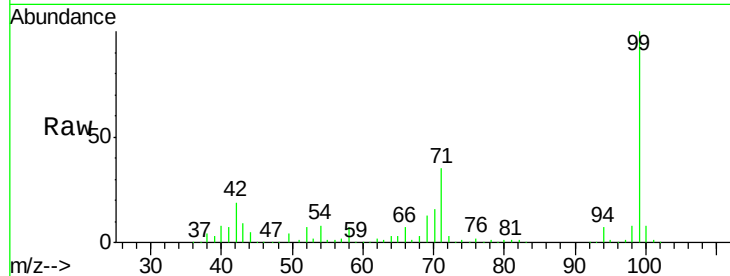
Tgt Ion: 99 Resp: 1660403

Ion Ratio Lower Upper

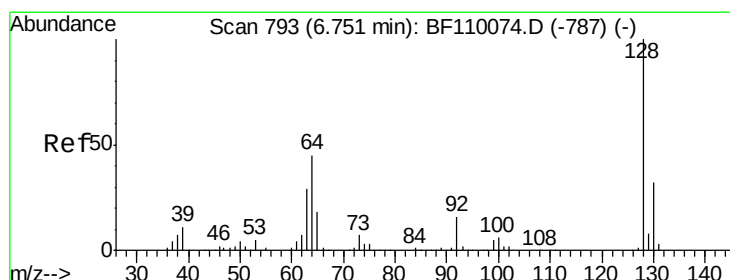
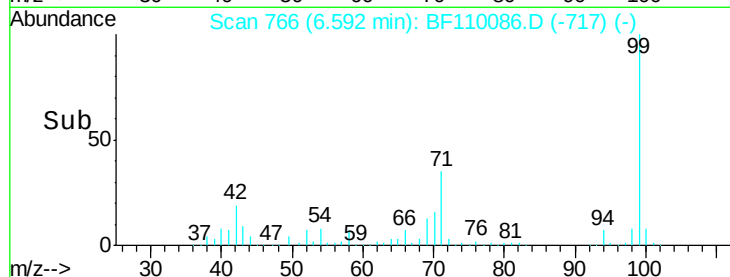
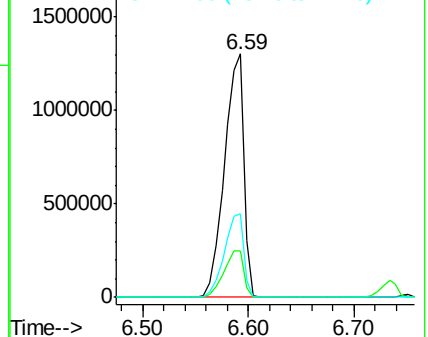
99 100

42 18.9 15.8 23.6

71 34.6 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 20.331 ng

RT: 6.75 min Scan# 793

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

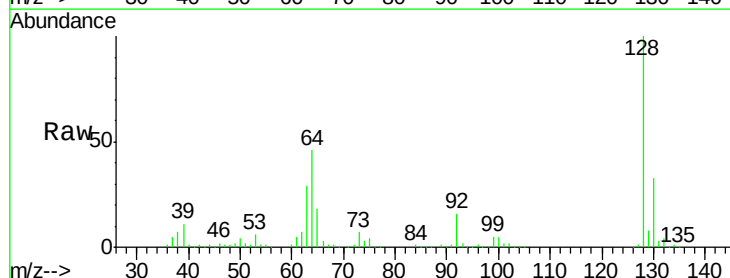
Tgt Ion: 128 Resp: 247498

Ion Ratio Lower Upper

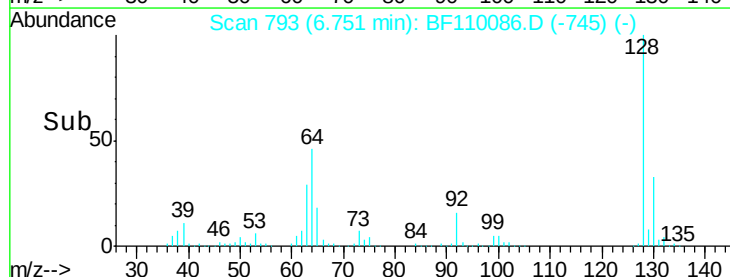
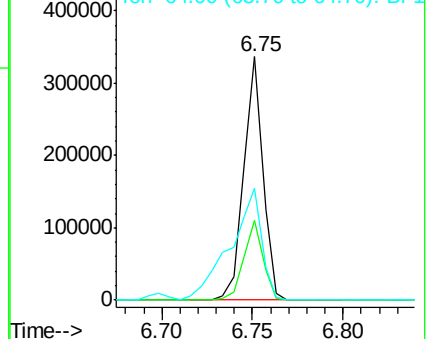
128 100

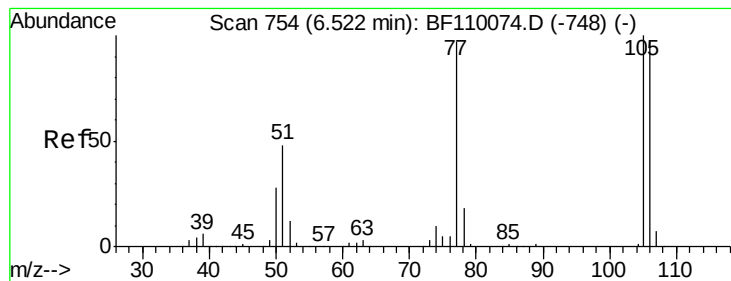
130 32.6 13.1 53.1

64 45.9 26.0 66.0



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF1





#9

Benzaldehyde

Concen: 17.678 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

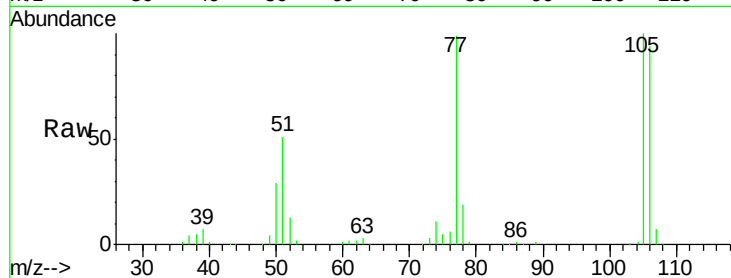
Tgt Ion: 77 Resp: 163251

Ion Ratio Lower Upper

77 100

105 100.8 78.6 118.6

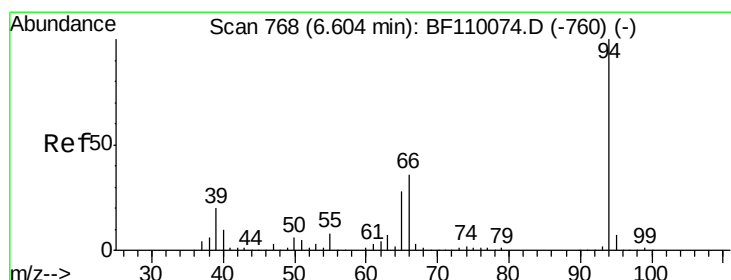
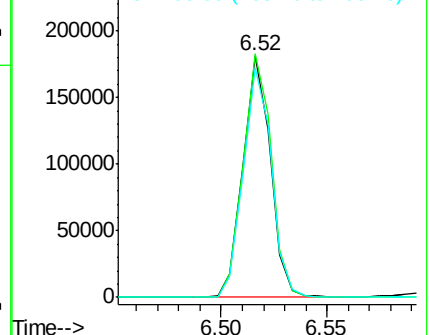
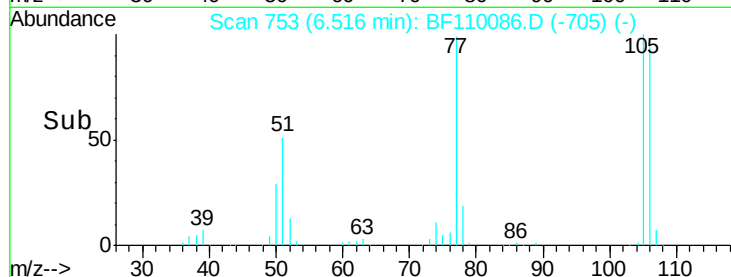
106 95.3 74.8 114.8



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 20.214 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

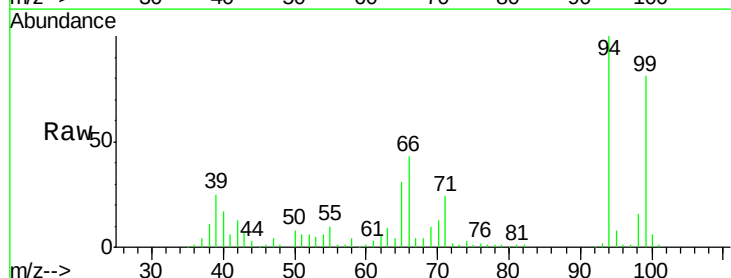
Tgt Ion: 94 Resp: 291824

Ion Ratio Lower Upper

94 100

65 30.8 25.3 65.3

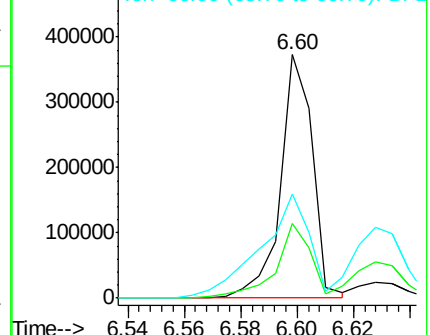
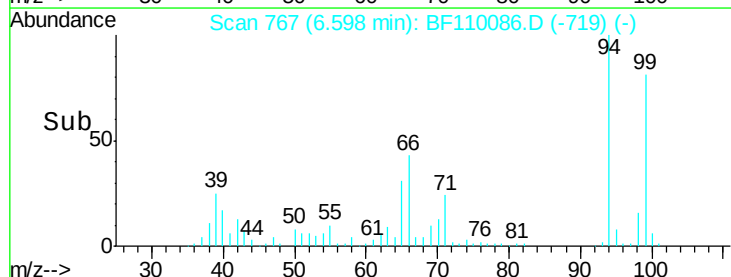
66 43.0 54.5 94.5#

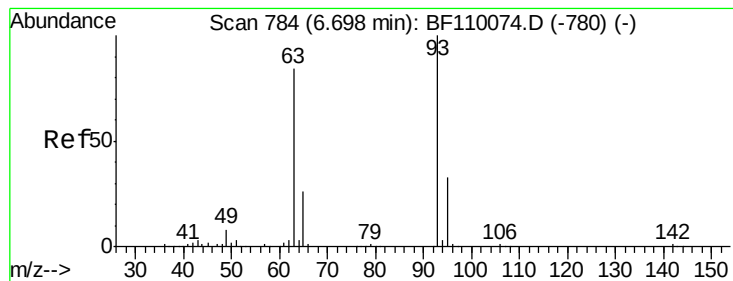


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

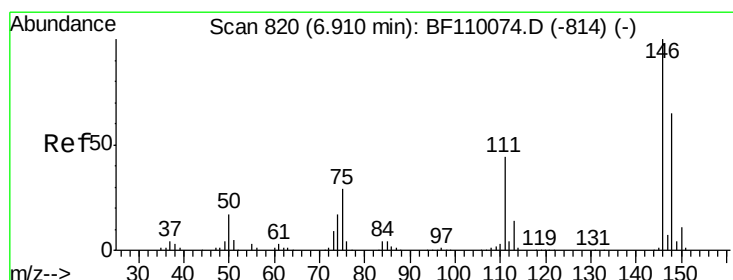
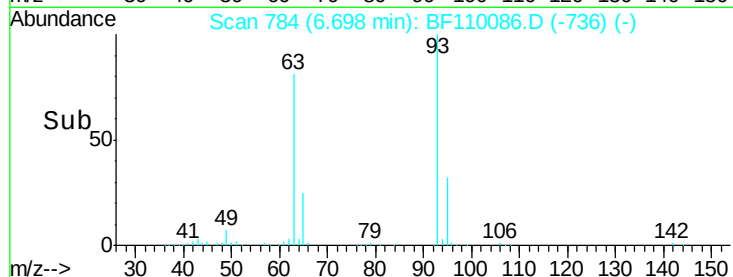
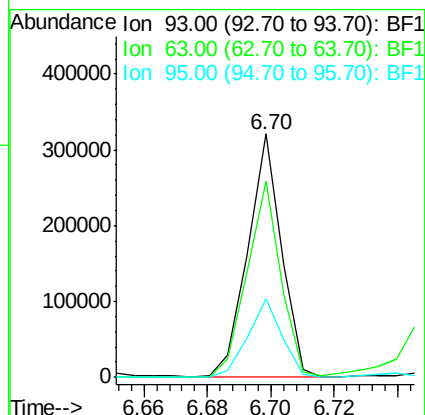
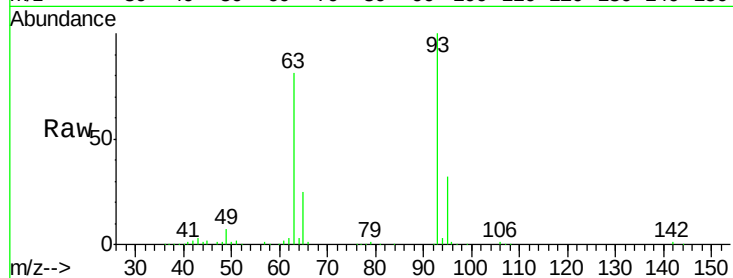




#11
bis(2-Chloroethyl)ether
Concen: 19.710 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

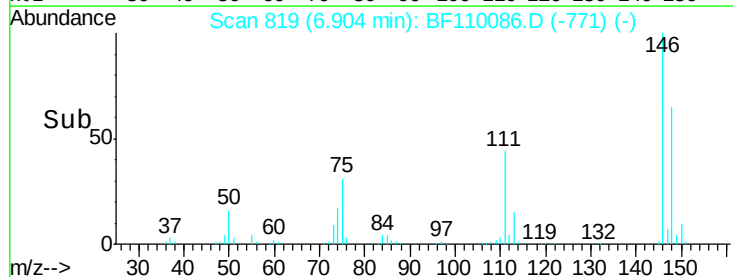
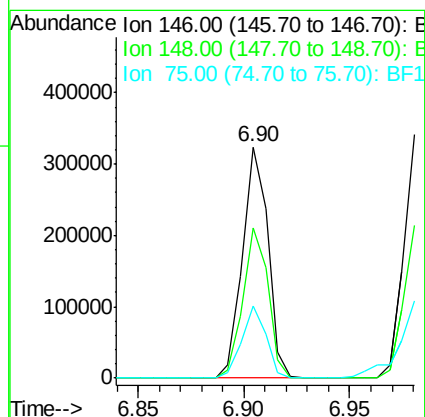
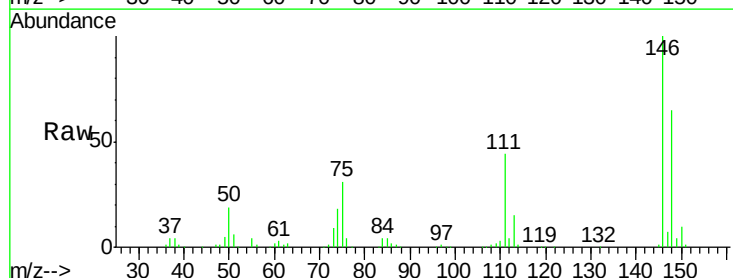
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

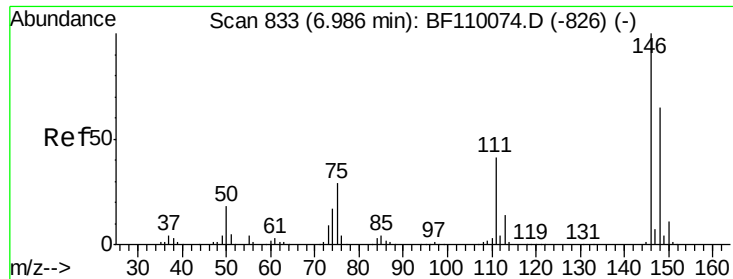
Tgt Ion: 93 Resp: 234100
Ion Ratio Lower Upper
93 100
63 80.7 53.4 93.4
95 32.3 12.1 52.1



#12
1,3-Dichlorobenzene
Concen: 20.104 ng
RT: 6.90 min Scan# 819
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion: 146 Resp: 269327
Ion Ratio Lower Upper
146 100
148 65.0 50.4 75.6
75 31.2 25.8 38.6

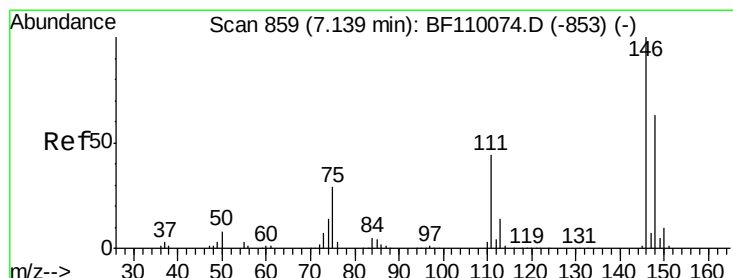
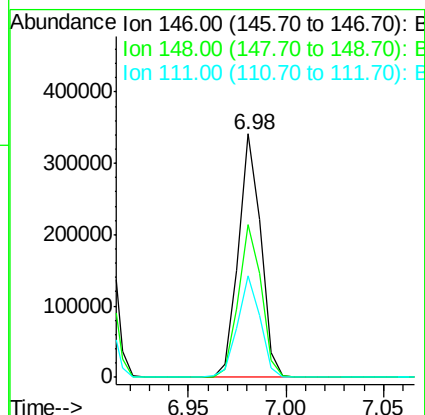
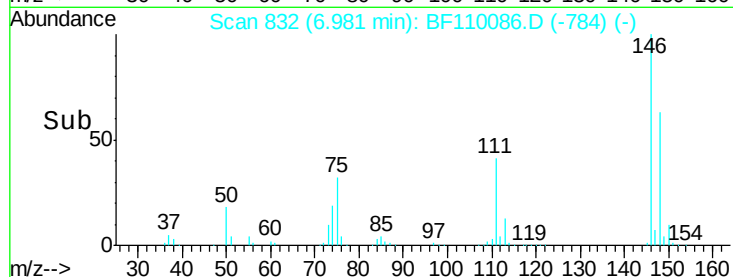
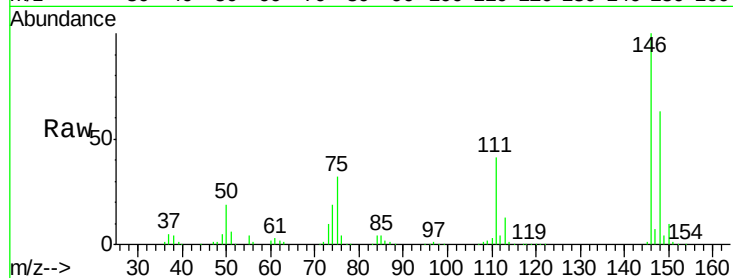




#13
 1,4-Dichlorobenzene
 Concen: 20.091 ng
 RT: 6.98 min Scan# 832
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

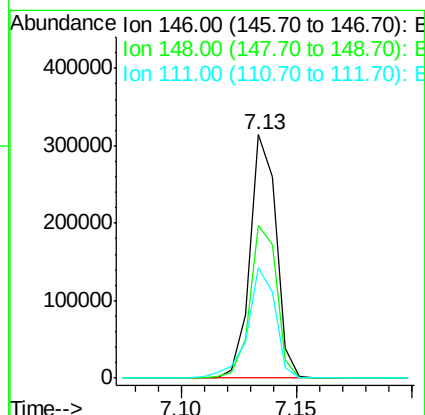
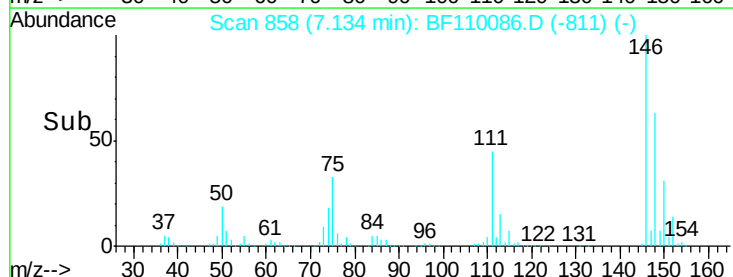
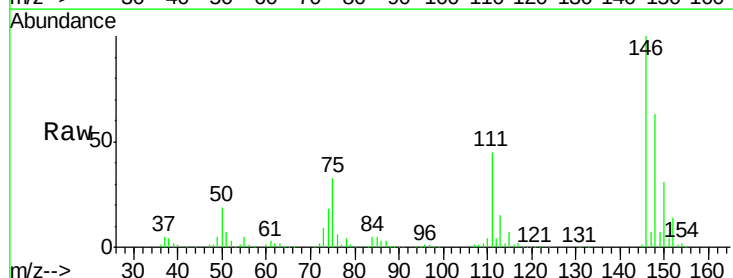
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

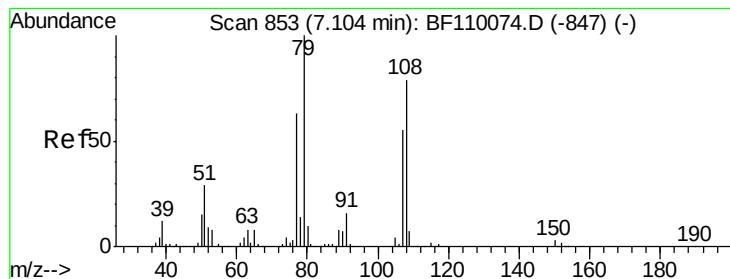
Tgt Ion:146 Resp: 272212
 Ion Ratio Lower Upper
 146 100
 148 62.6 50.3 75.5
 111 41.5 32.7 49.1



#14
 1,2-Dichlorobenzene
 Concen: 19.855 ng
 RT: 7.13 min Scan# 858
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Tgt Ion:146 Resp: 249732
 Ion Ratio Lower Upper
 146 100
 148 62.7 51.1 76.7
 111 45.5 35.8 53.6





#15

Benzyl Alcohol

Concen: 21.116 ng

RT: 7.10 min Scan# 852

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

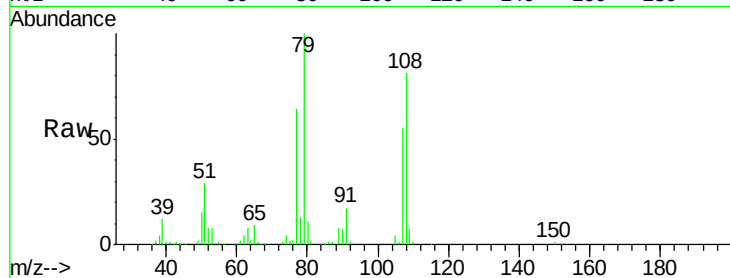
Tgt Ion: 79 Resp: 219338

Ion Ratio Lower Upper

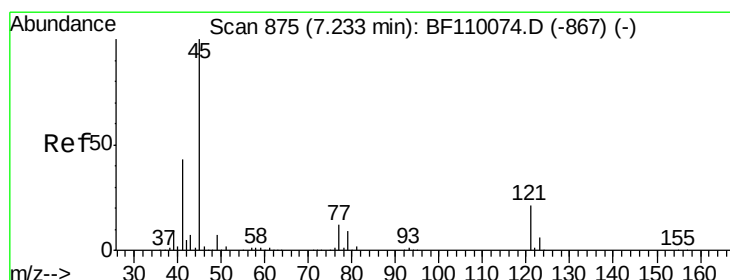
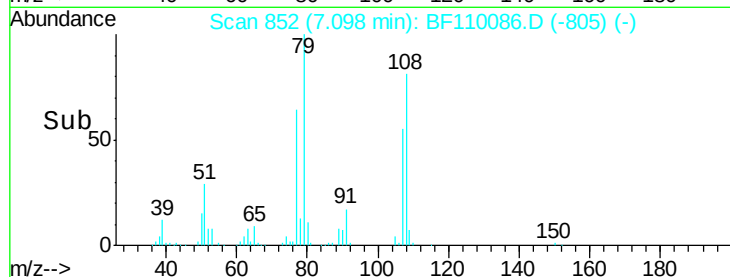
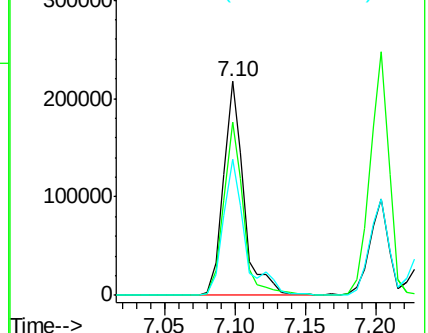
79 100

108 81.0 56.3 84.5

77 63.7 52.9 79.3



Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 108.00 (107.70 to 108.70): BF1
Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-chloropropane)

Concen: 20.554 ng

RT: 7.23 min Scan# 875

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

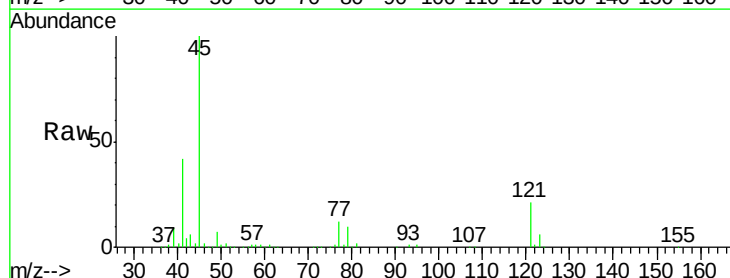
Tgt Ion: 45 Resp: 390328

Ion Ratio Lower Upper

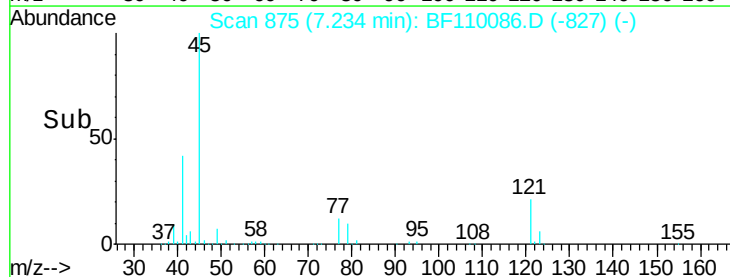
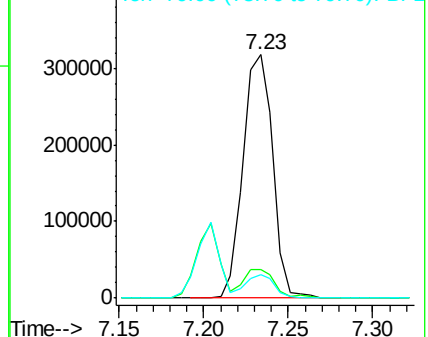
45 100

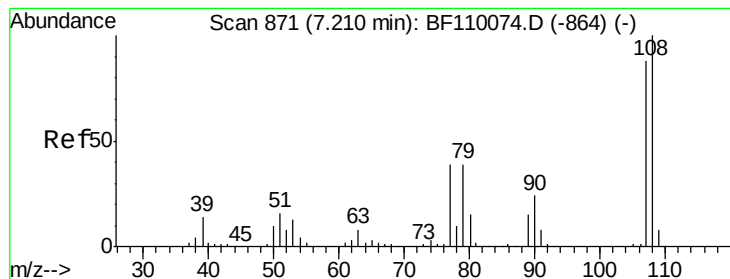
77 12.0 10.0 50.0

79 9.8 6.1 46.1



Abundance Ion 45.00 (44.70 to 45.70): BF1
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1





#17

2-Methylphenol

Concen: 20.837 ng

RT: 7.20 min Scan# 870

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:107 Resp: 202159

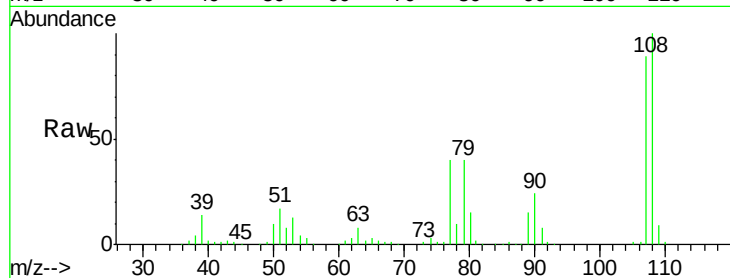
Ion Ratio Lower Upper

107 100

108 112.6 92.6 138.8

77 44.7 59.4 89.2#

79 44.7 54.0 81.0#

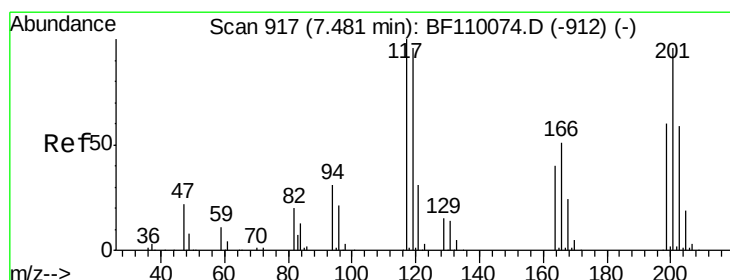
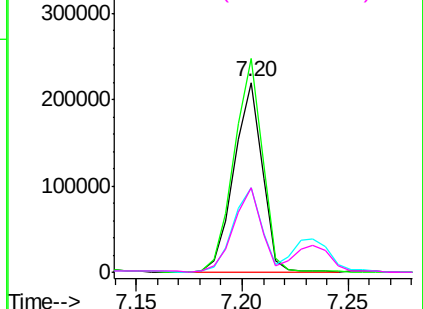
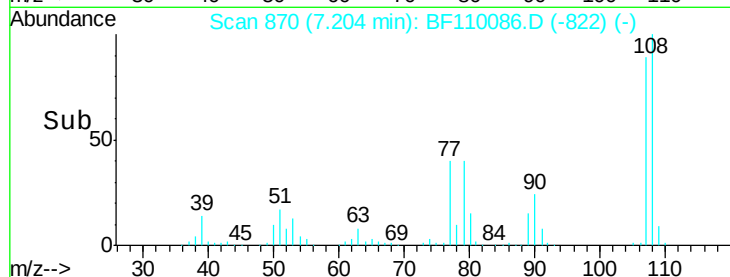


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#18

Hexachloroethane

Concen: 20.096 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

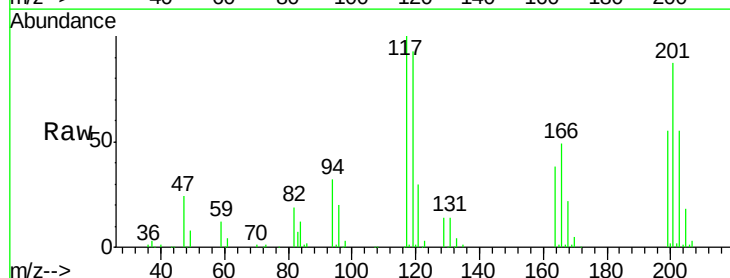
Tgt Ion:117 Resp: 99687

Ion Ratio Lower Upper

117 100

119 92.8 75.0 112.6

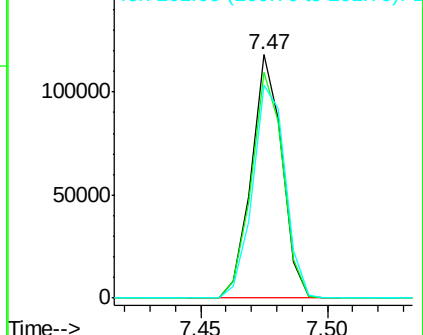
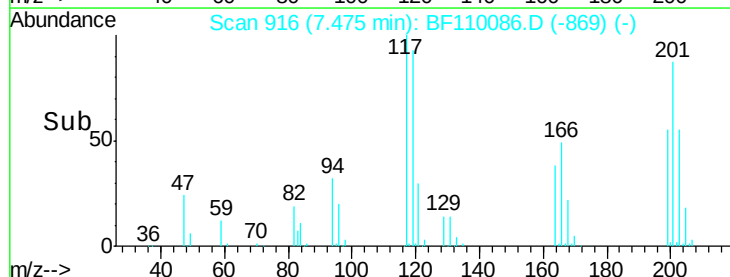
201 87.3 79.2 118.8

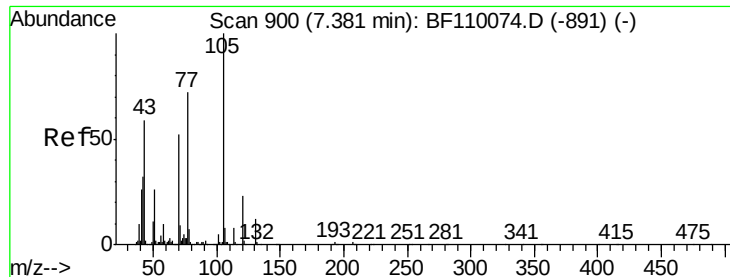


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

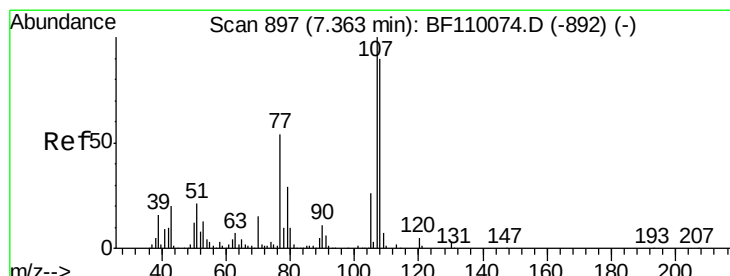
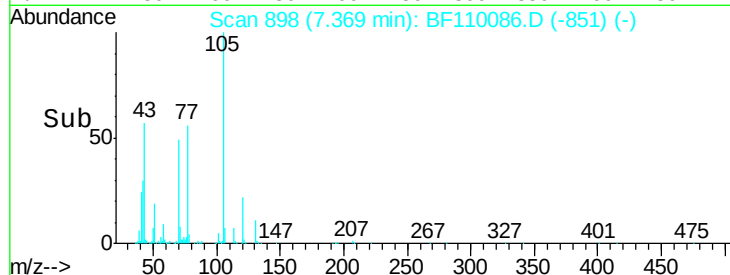
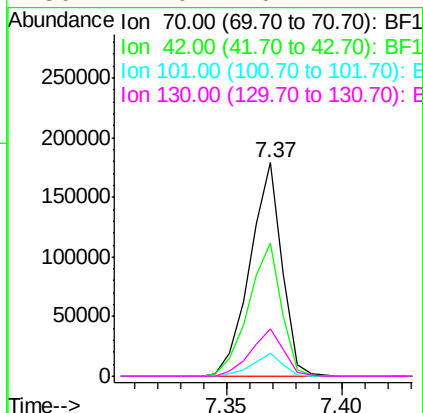
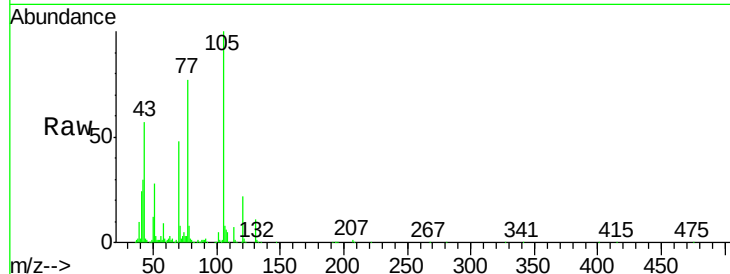




#19
n-Nitroso-di-n-propylamine
Concen: 19.877 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

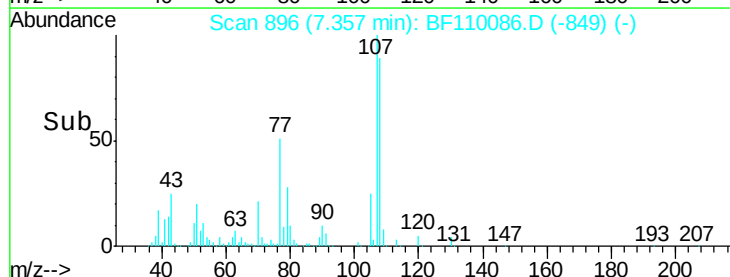
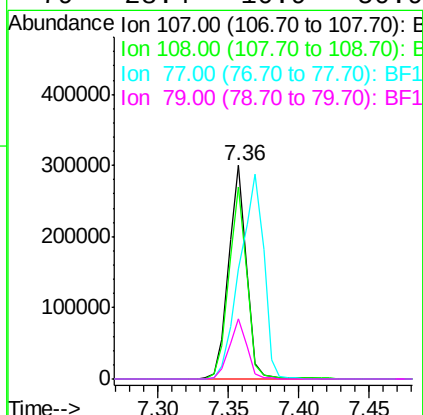
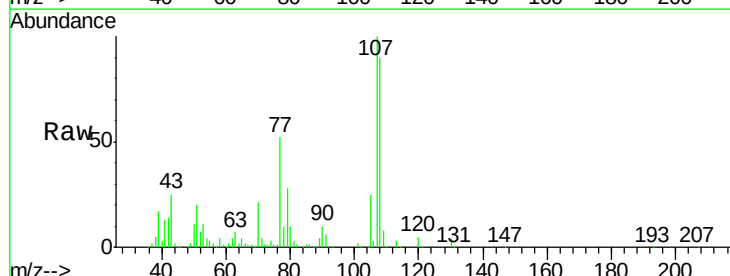
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

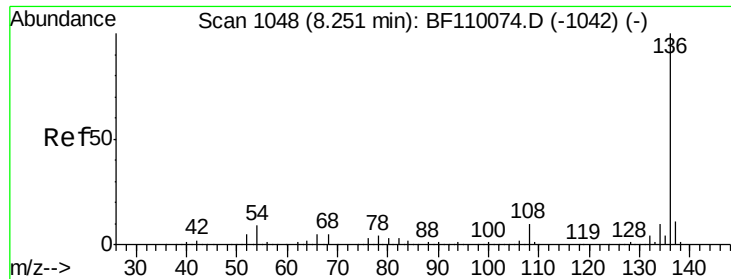
Tgt Ion:	70	Resp:	172222
Ion	Ratio	Lower	Upper
70	100		
42	62.3	47.4	71.2
101	10.6	7.3	10.9
130	22.0	16.2	24.2



#20
3+4-Methylphenols
Concen: 21.023 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:	107	Resp:	263639
Ion	Ratio	Lower	Upper
107	100		
108	89.7	71.4	111.4
77	51.6	47.3	87.3
79	28.4	10.9	50.9

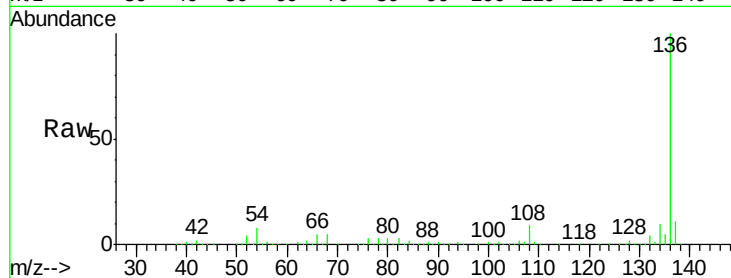




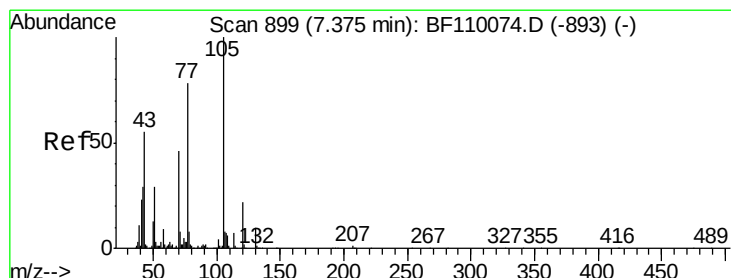
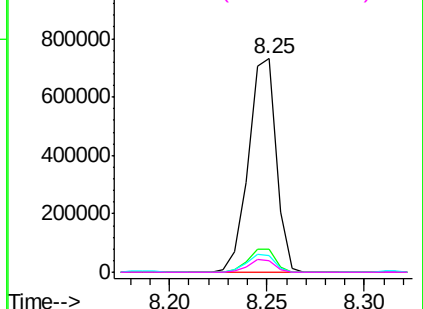
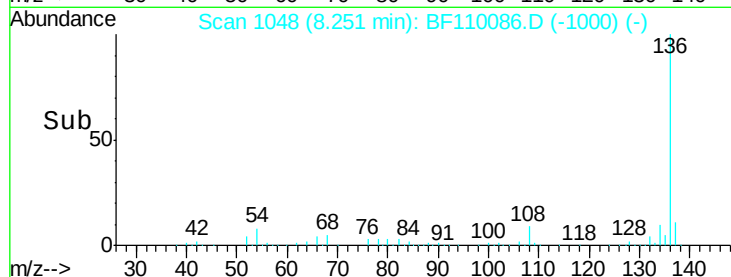
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:	136	Resp:	722802
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.8	13.2
54	7.6	5.4	8.2
68	5.2	4.2	6.2

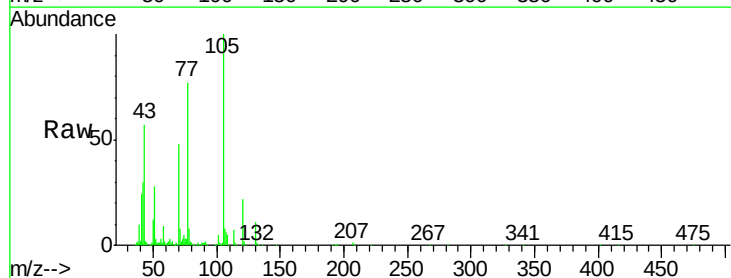


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

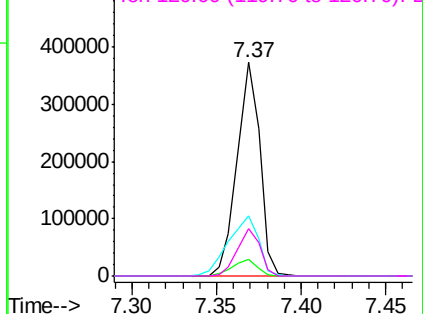
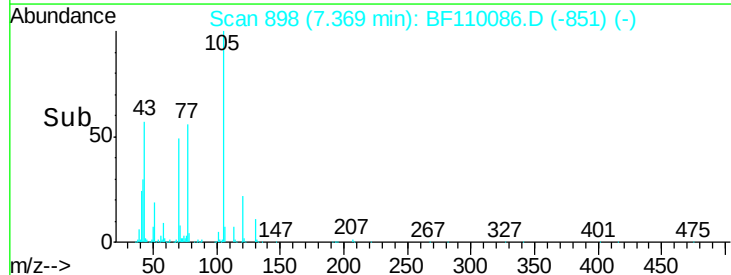


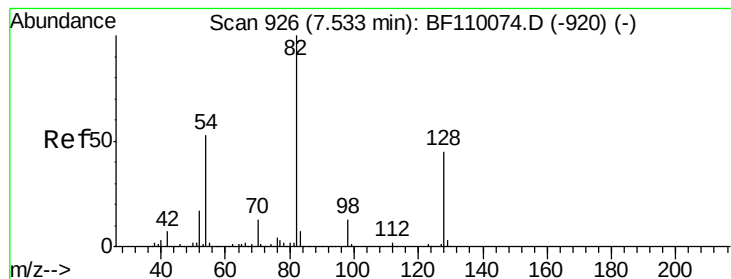
#22
Acetophenone
Concen: 21.077 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:	105	Resp:	351035
Ion Ratio	Lower	Upper	
105	100		
71	8.1	5.2	7.8#
51	28.1	21.8	32.8
120	22.2	17.0	25.4



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 71.00 (70.70 to 71.70): BF1
Ion 51.00 (50.70 to 51.70): BF1
Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 81.800 ng

RT: 7.53 min Scan# 925

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

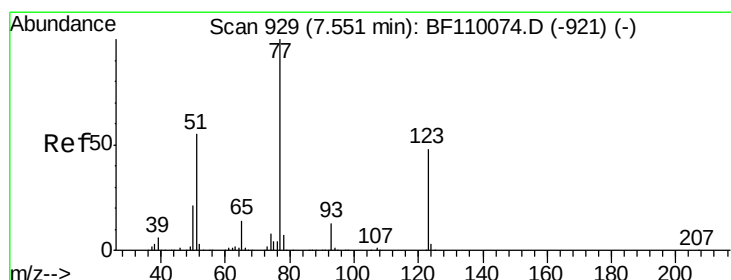
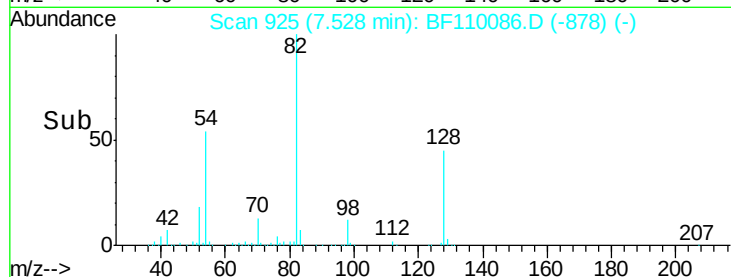
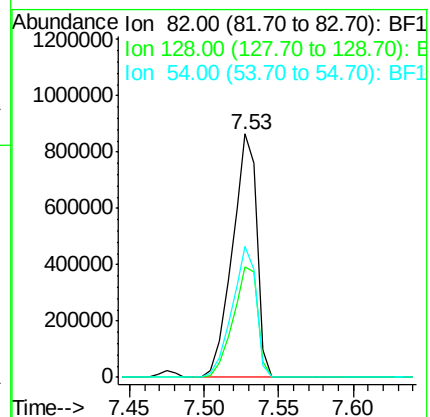
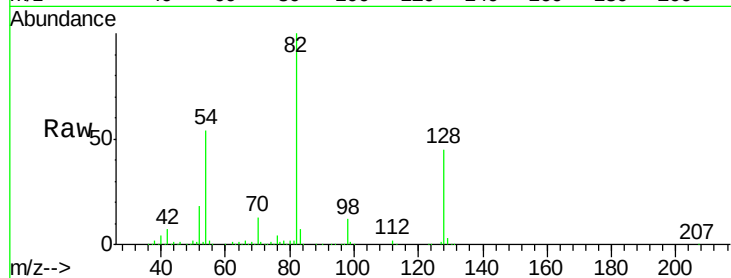
Tgt Ion: 82 Resp: 996833

Ion Ratio Lower Upper

82 100

128 45.3 34.2 51.2

54 54.0 38.6 58.0



#24

Nitrobenzene

Concen: 20.694 ng

RT: 7.55 min Scan# 928

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

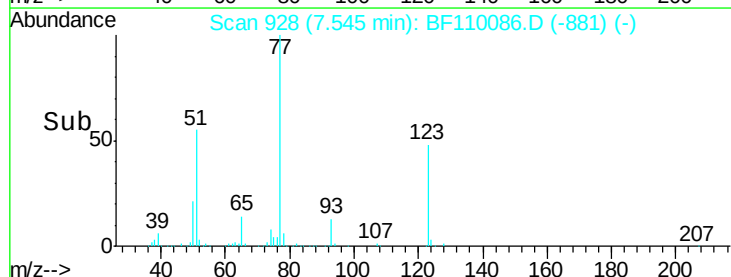
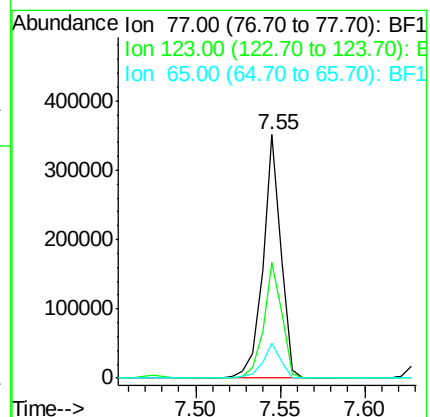
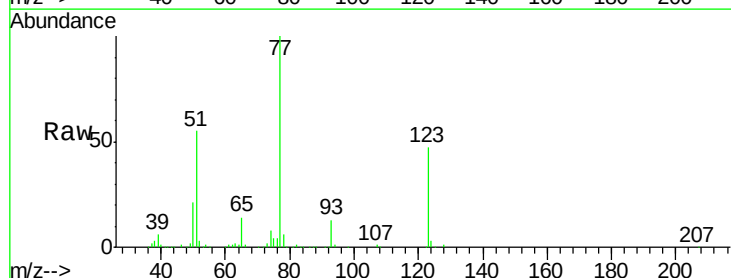
Tgt Ion: 77 Resp: 260357

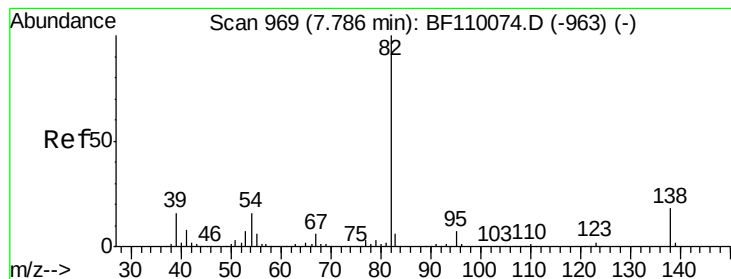
Ion Ratio Lower Upper

77 100

123 47.5 35.7 53.5

65 14.2 10.7 16.1





#25

Isophorone

Concen: 22.973 ng

RT: 7.78 min Scan# 968

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

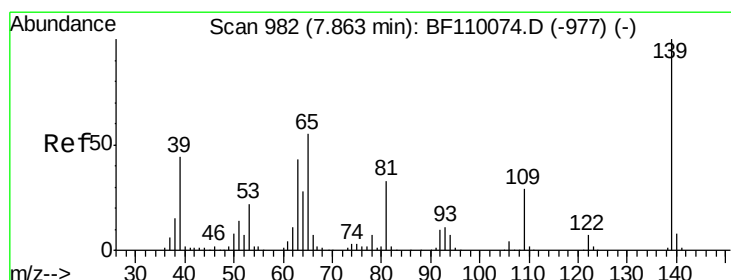
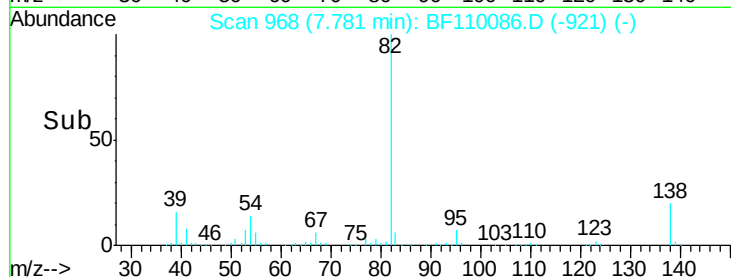
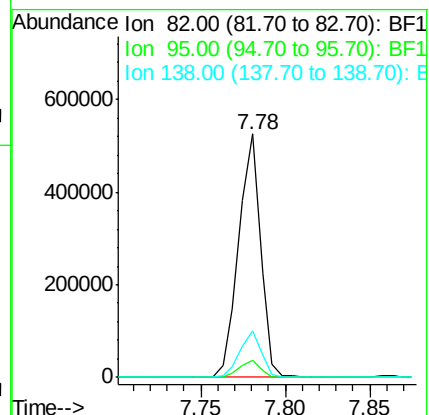
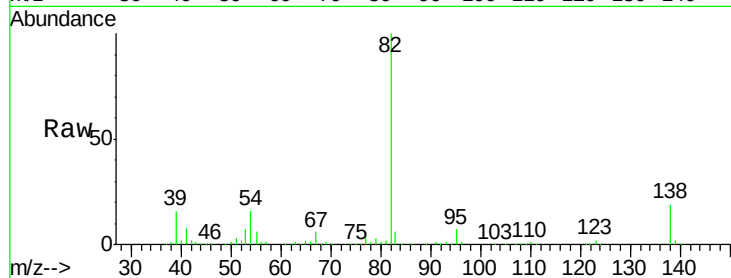
Tgt Ion: 82 Resp: 477208

Ion Ratio Lower Upper

82 100

95 7.0 5.7 8.5

138 18.8 13.2 19.8



#26

2-Nitrophenol

Concen: 20.403 ng

RT: 7.86 min Scan# 982

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

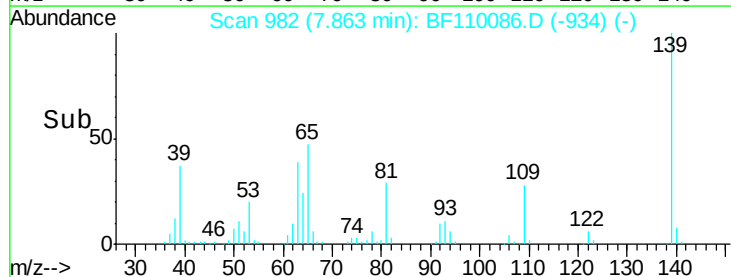
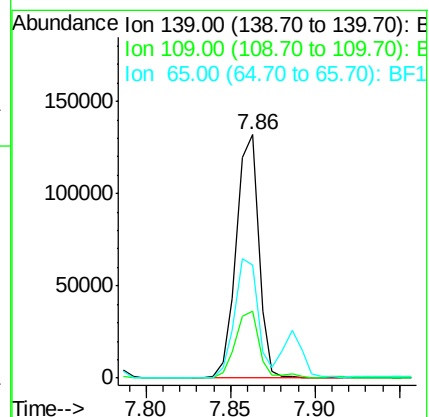
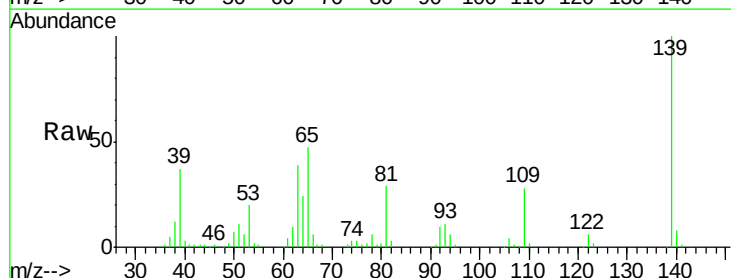
Tgt Ion: 139 Resp: 122156

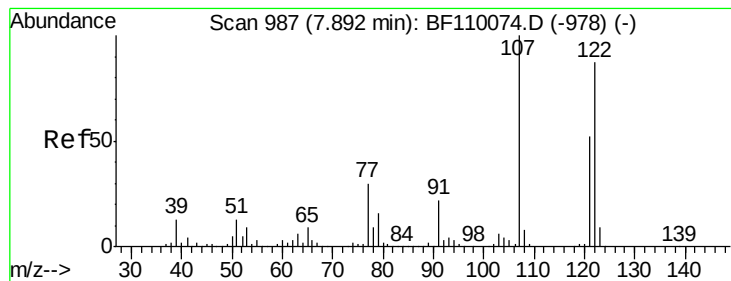
Ion Ratio Lower Upper

139 100

109 27.6 25.0 37.6

65 46.7 44.0 66.0





#27

2,4-Dimethylphenol

Concen: 23.083 ng

RT: 7.89 min Scan# 986

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

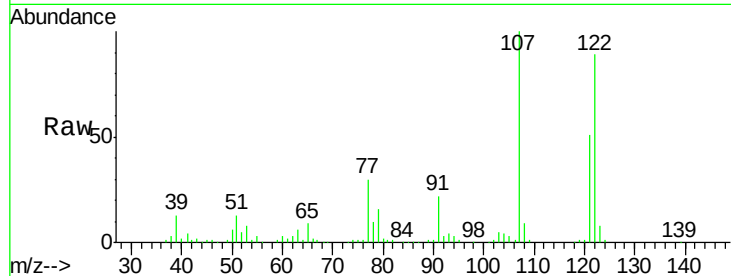
Tgt Ion:122 Resp: 229129

Ion Ratio Lower Upper

122 100

107 112.2 92.5 138.7

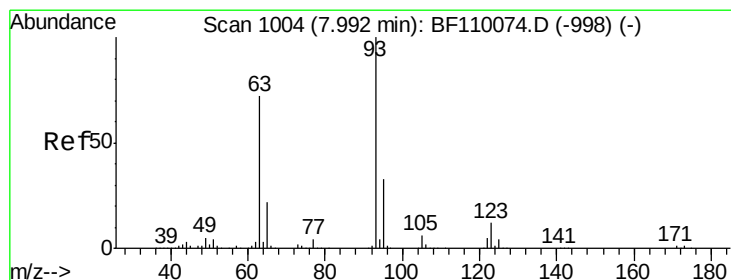
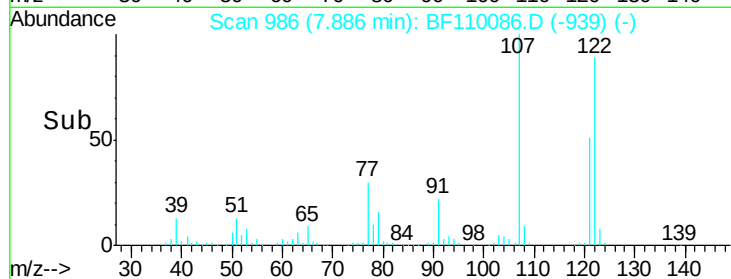
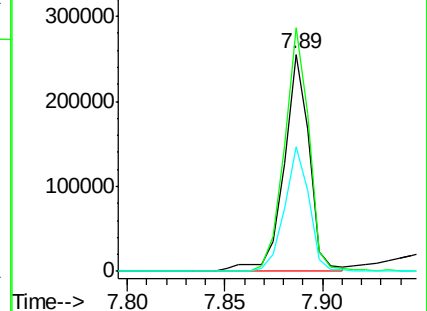
121 57.7 45.8 68.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 21.512 ng

RT: 7.99 min Scan# 1003

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

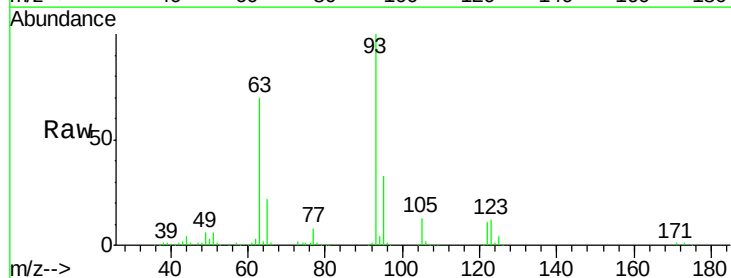
Tgt Ion: 93 Resp: 303574

Ion Ratio Lower Upper

93 100

95 32.6 26.4 39.6

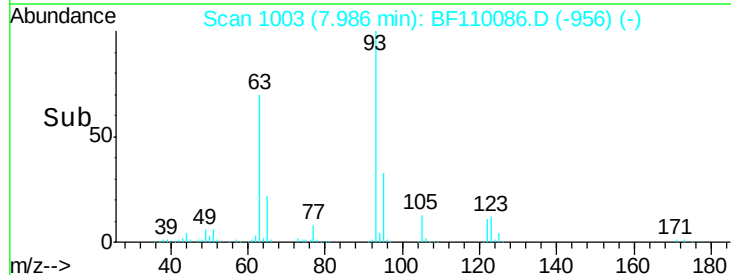
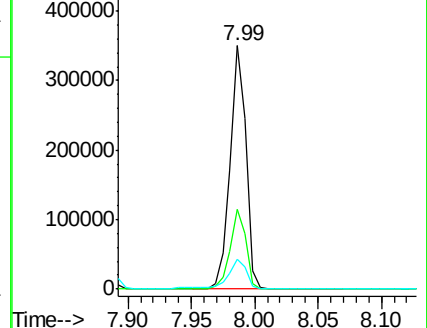
123 12.4 9.0 13.6

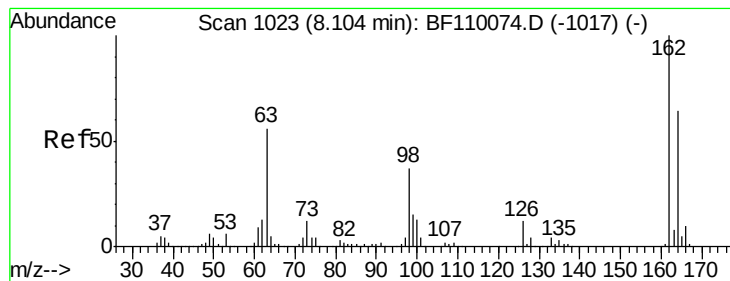


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 123.00 (122.70 to 123.70): E

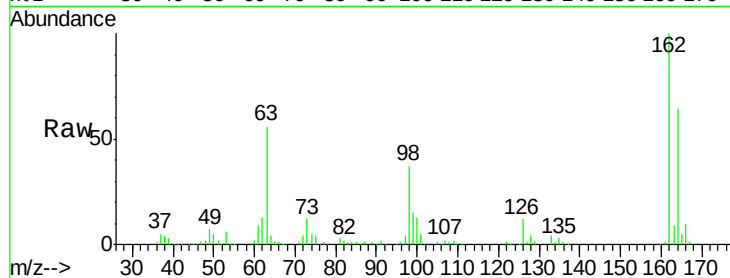




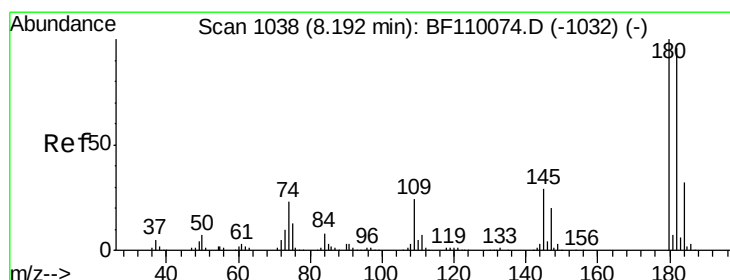
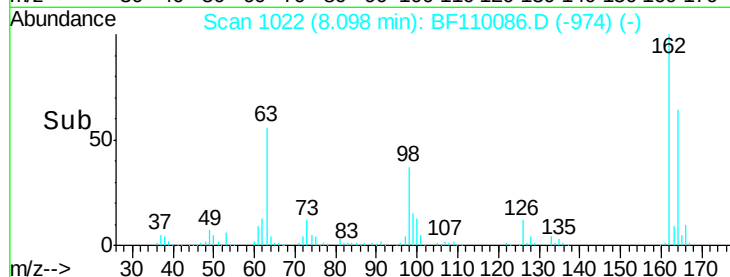
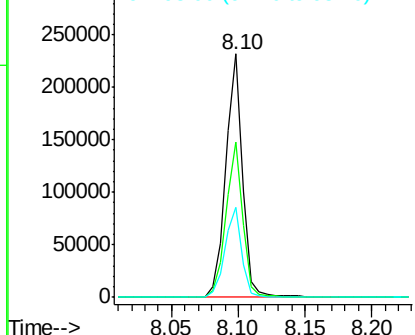
#29
2,4-Dichlorophenol
Concen: 20.595 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
162	100		
164	63.6	44.6	84.6
98	36.8	17.4	57.4

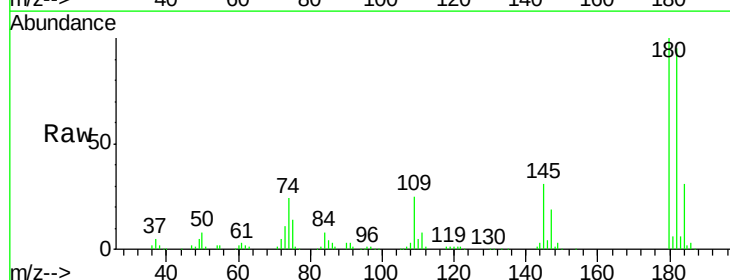


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF1

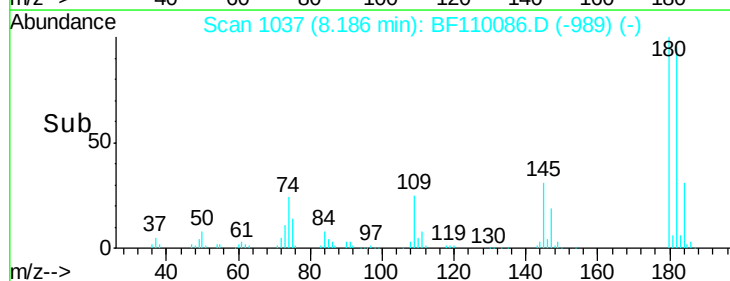
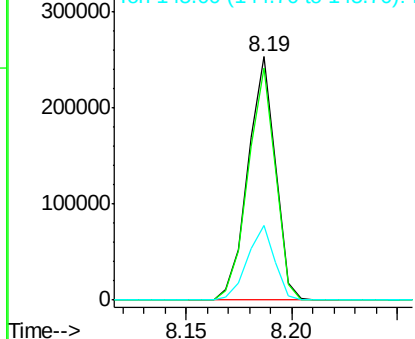


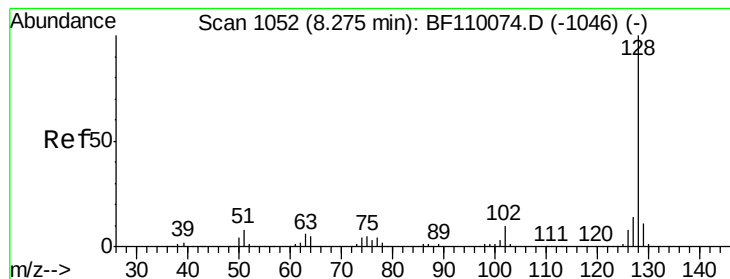
#30
1,2,4-Trichlorobenzene
Concen: 20.351 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	80.3	120.5
145	30.6	25.4	38.0



Abundance Ion 180.00 (179.70 to 180.70): E
Ion 182.00 (181.70 to 182.70): E
Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 22.442 ng

RT: 8.27 min Scan# 1051

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

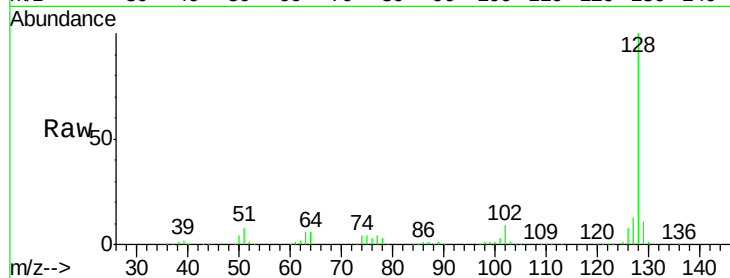
Tgt Ion:128 Resp: 747629

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

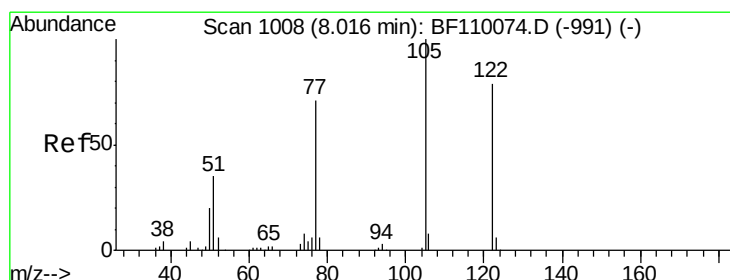
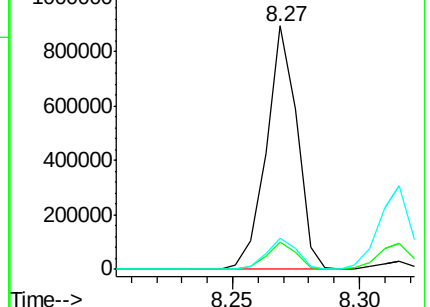
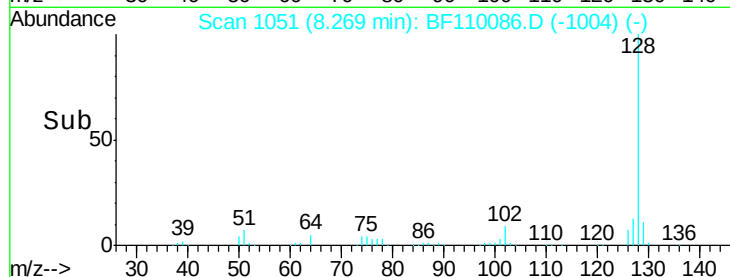
127 13.0 10.8 16.2



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



#32

Benzoic acid

Concen: 15.569 ng

RT: 7.98 min Scan# 1002

Delta R.T. -0.03 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

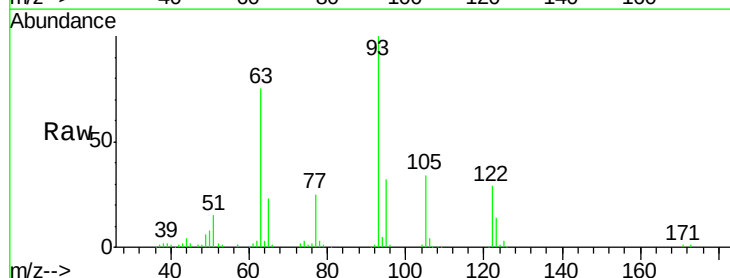
Tgt Ion:122 Resp: 119444

Ion Ratio Lower Upper

122 100

105 118.8 109.0 149.0

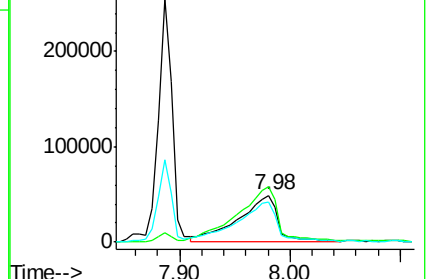
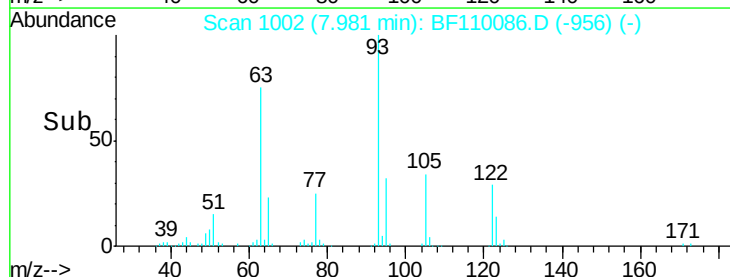
77 86.9 79.0 119.0

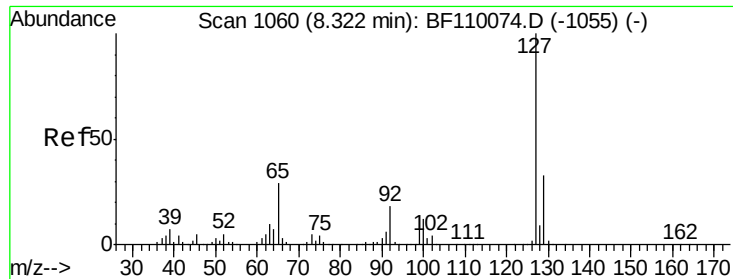


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

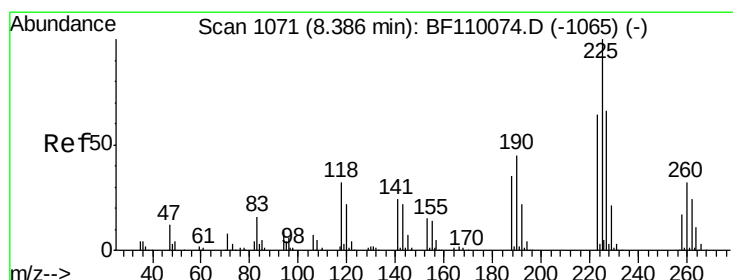
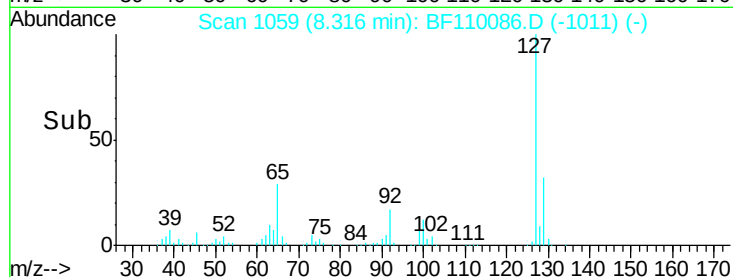
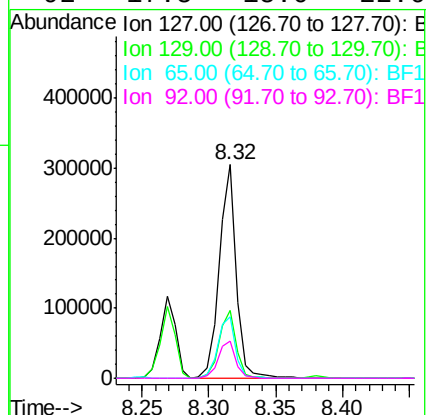
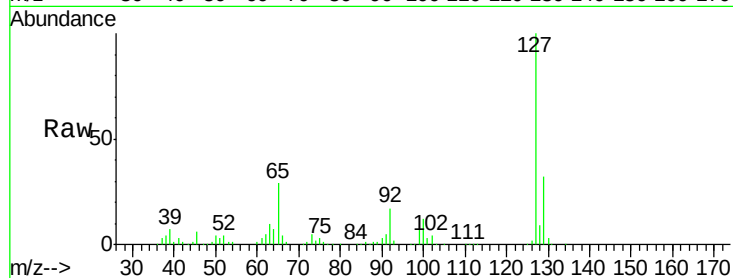




#33
4-Chloroaniline
Concen: 18.244 ng
RT: 8.32 min Scan# 1059
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

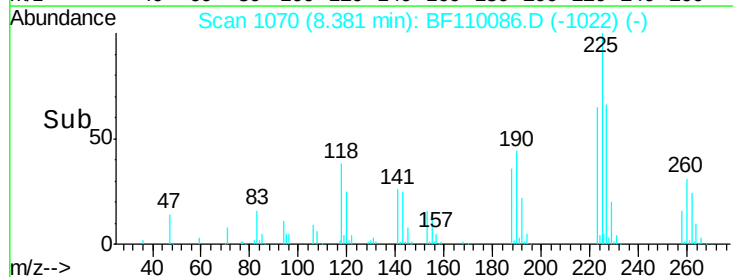
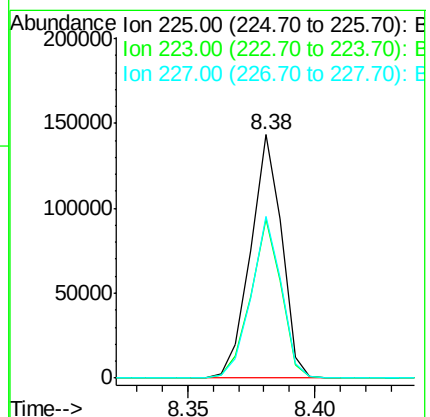
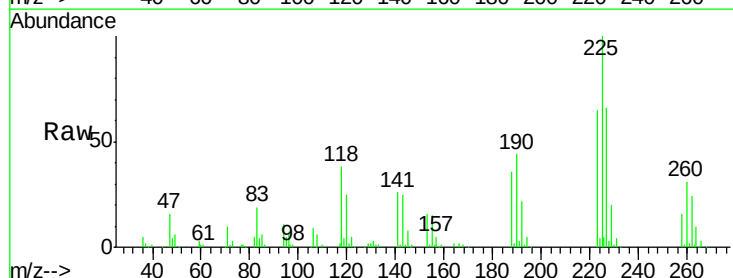
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

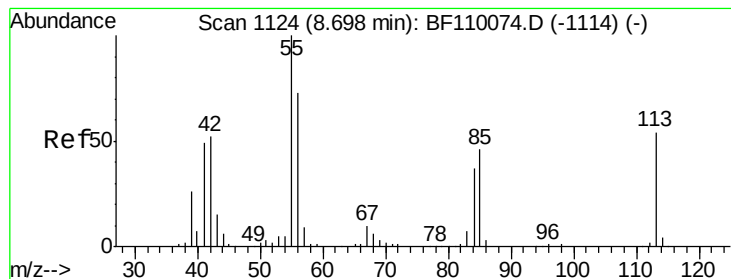
Tgt Ion:	127	Resp:	273523
Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.0	39.0
65	28.7	25.1	37.7
92	17.5	15.0	22.6



#34
Hexachlorobutadiene
Concen: 19.661 ng
RT: 8.38 min Scan# 1070
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:	225	Resp:	122623
Ion	Ratio	Lower	Upper
225	100		
223	65.3	51.4	77.2
227	66.3	51.0	76.6





#35

Caprolactam

Concen: 19.800 ng

RT: 8.67 min Scan# 1119

Delta R.T. -0.04 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

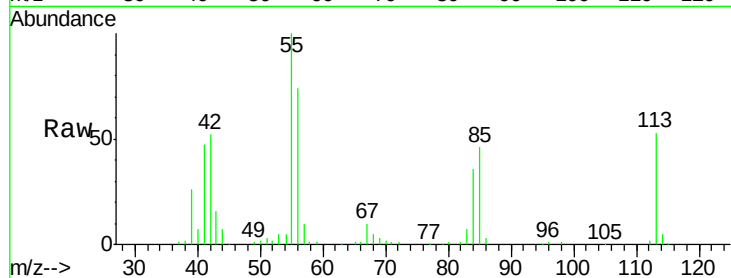
Tgt Ion:113 Resp: 69207

Ion Ratio Lower Upper

113 100

55 188.6 142.8 182.8#

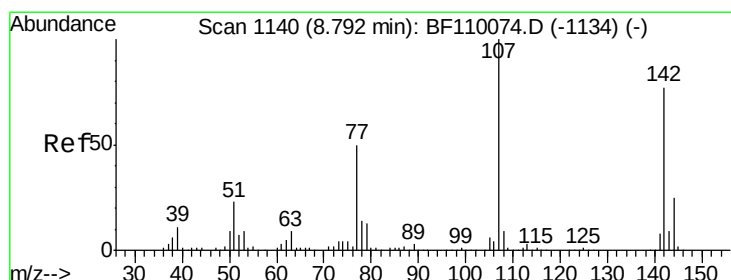
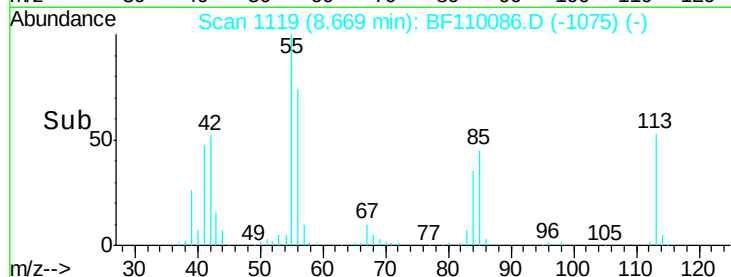
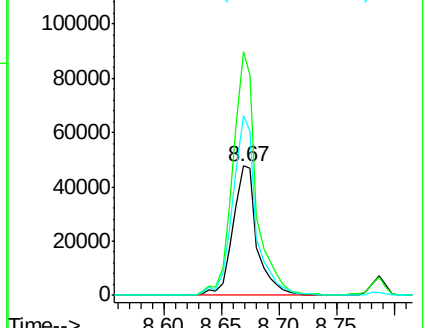
56 139.3 105.0 145.0



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF1

Ion 56.00 (55.70 to 56.70): BF1



#36

4-Chloro-3-methylphenol

Concen: 20.902 ng

RT: 8.79 min Scan# 1139

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

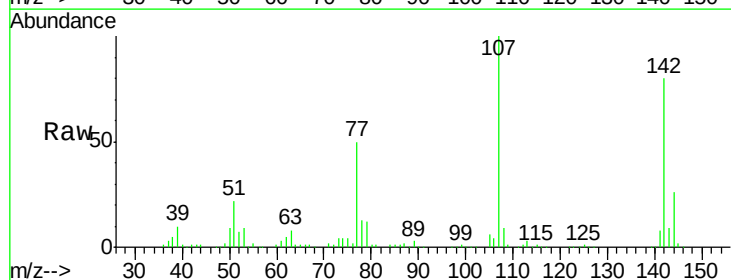
Tgt Ion:107 Resp: 226666

Ion Ratio Lower Upper

107 100

144 25.9 20.0 30.0

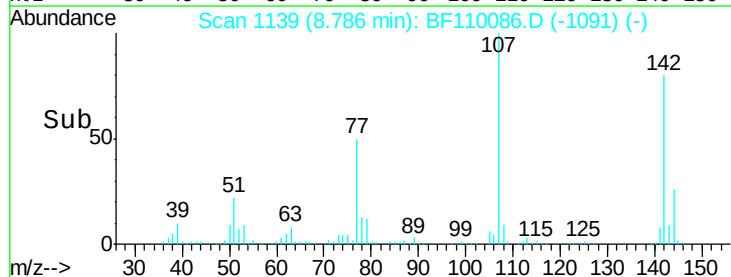
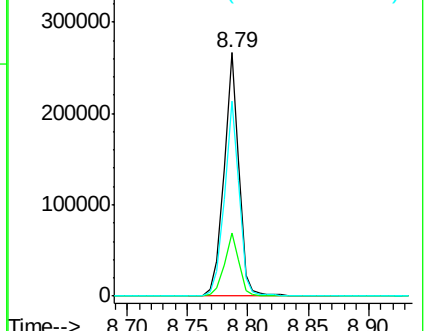
142 80.2 59.7 89.5

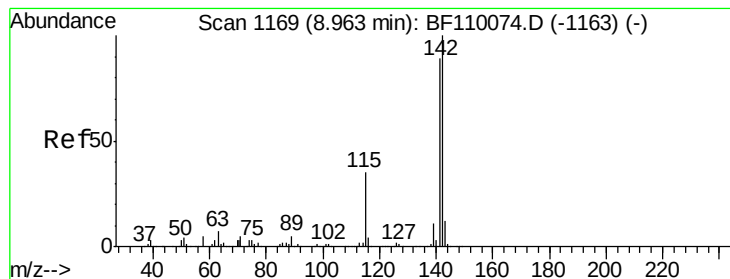


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 23.009 ng

RT: 8.96 min Scan# 1169

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

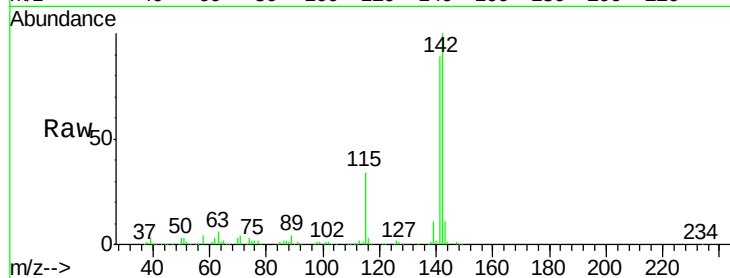
Tgt Ion:142 Resp: 507136

Ion Ratio Lower Upper

142 100

141 89.5 71.4 107.2

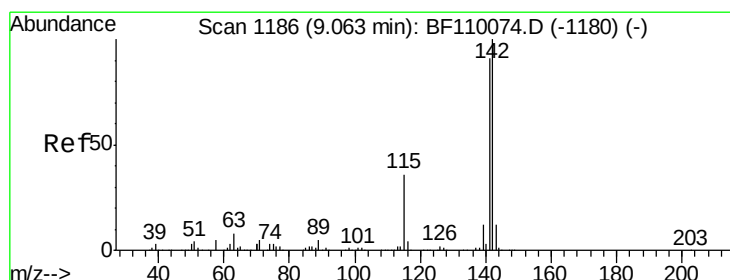
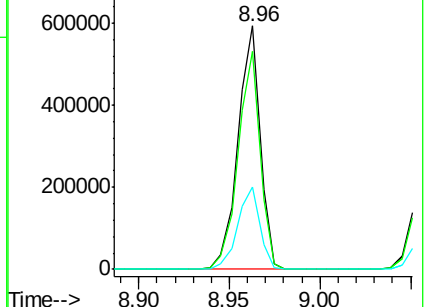
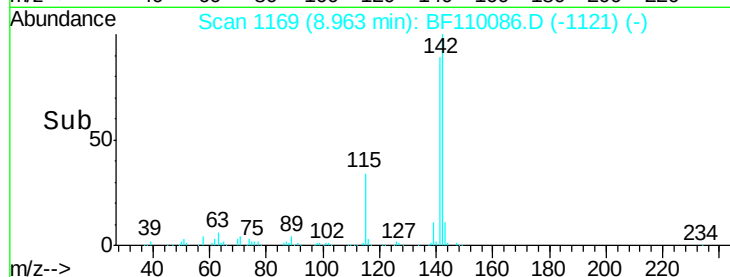
115 33.9 28.7 43.1



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: 22.568 ng

RT: 9.06 min Scan# 1186

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

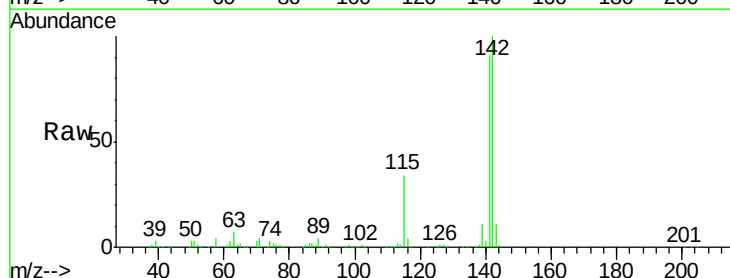
Tgt Ion:142 Resp: 480687

Ion Ratio Lower Upper

142 100

141 90.7 74.2 111.4

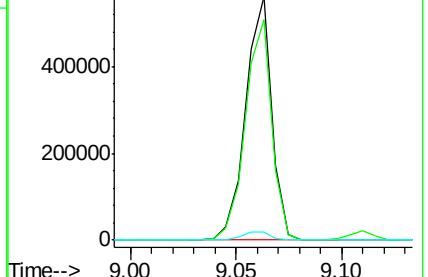
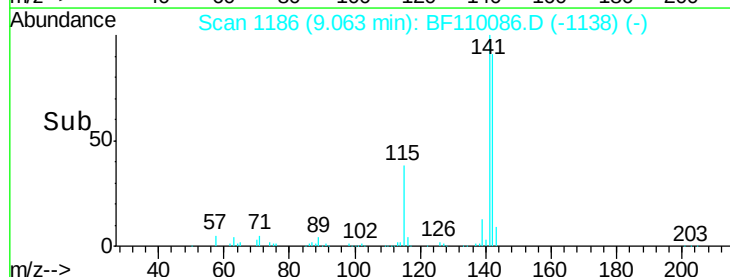
116 3.5 2.6 4.0

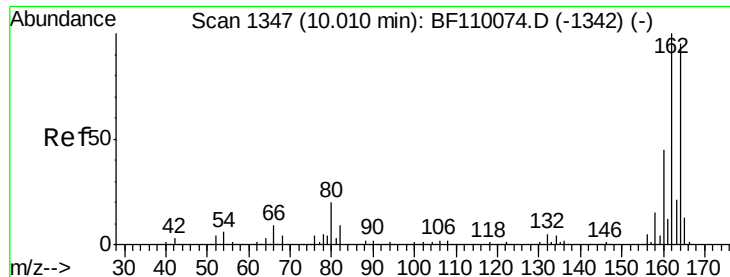


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

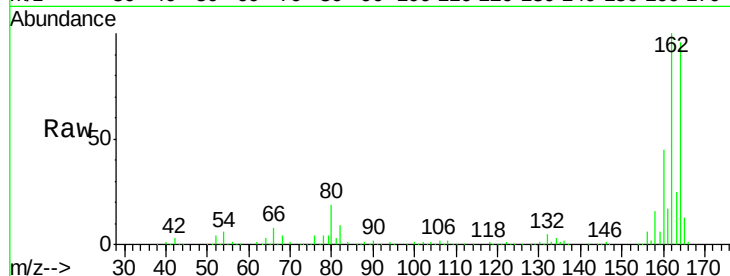
Tgt Ion:164 Resp: 351615

Ion Ratio Lower Upper

164 100

162 103.7 83.0 124.6

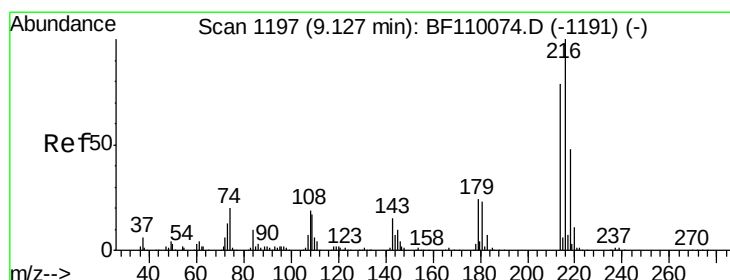
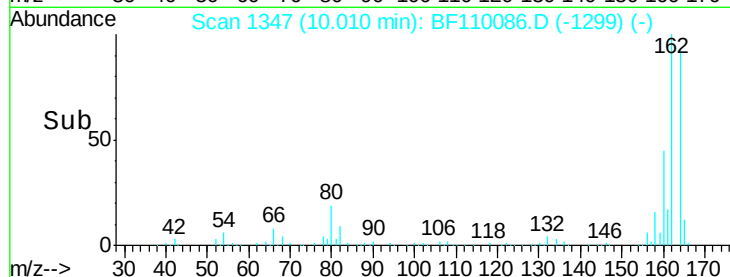
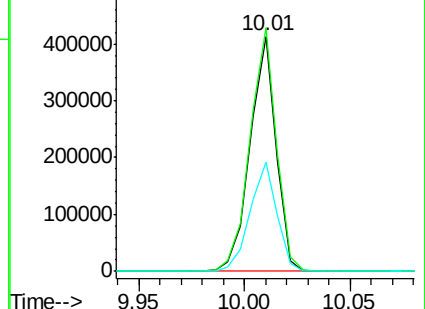
160 46.6 37.0 55.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40

1,2,4,5-Tetrachlorobenzene

Concen: 19.826 ng

RT: 9.13 min Scan# 1197

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Tgt Ion:216 Resp: 217204

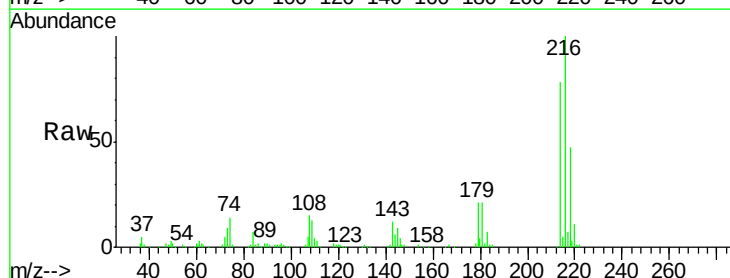
Ion Ratio Lower Upper

216 100

214 79.0 63.8 95.6

179 22.3 16.6 25.0

108 19.4 15.1 22.7

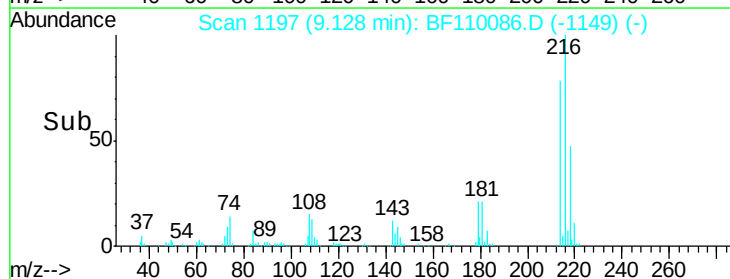
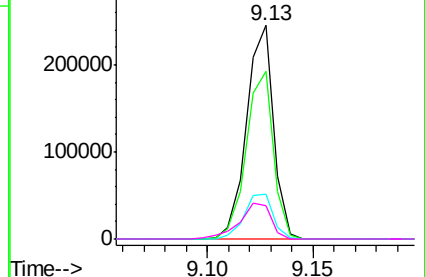


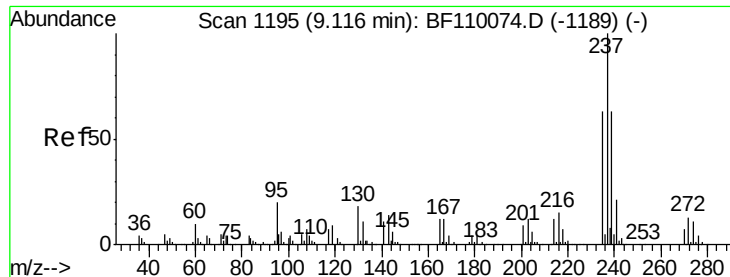
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E

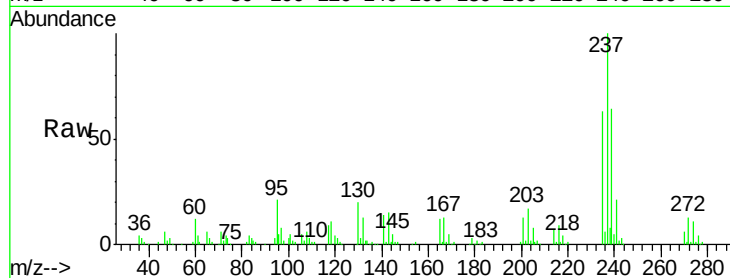




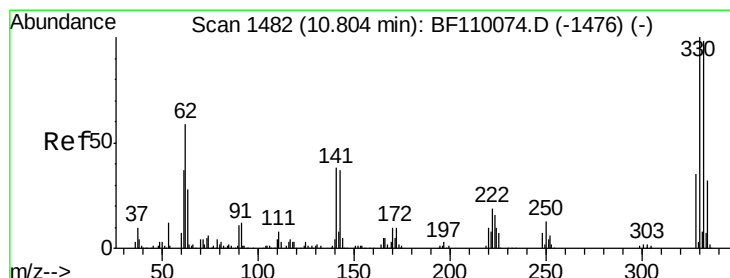
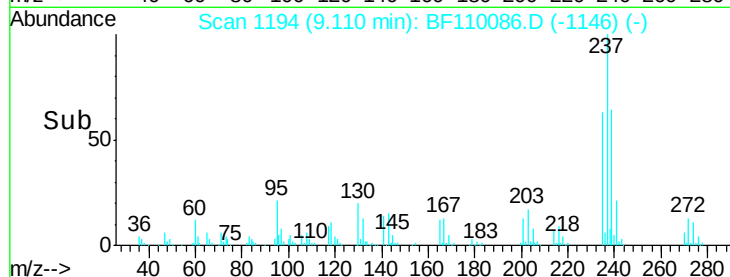
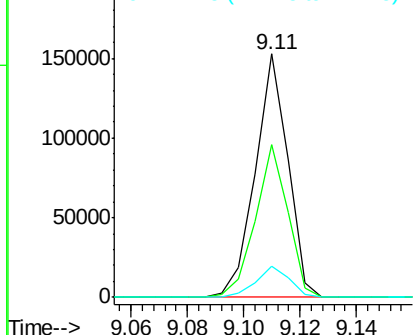
#41
Hexachlorocyclopentadiene
Concen: 21.848 ng
RT: 9.11 min Scan# 1194
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.1	83.1
272	13.0	0.0	32.6

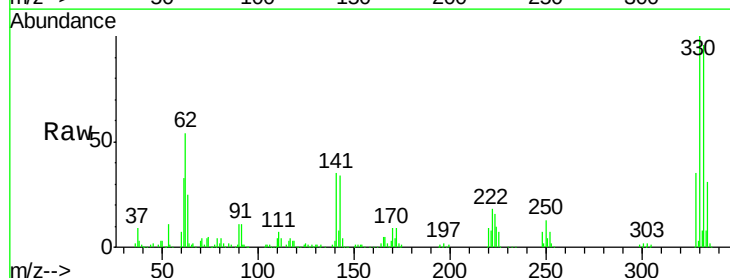


Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E

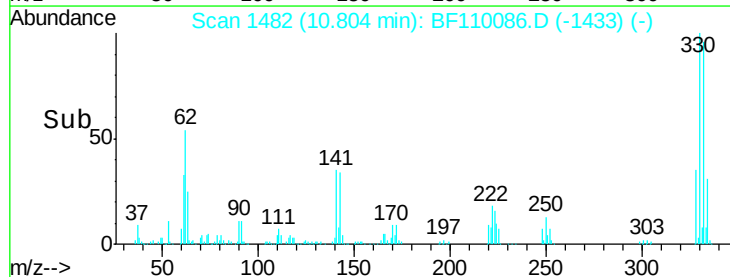
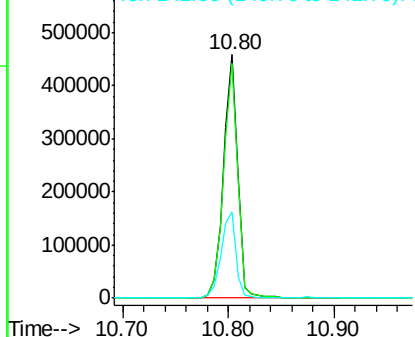


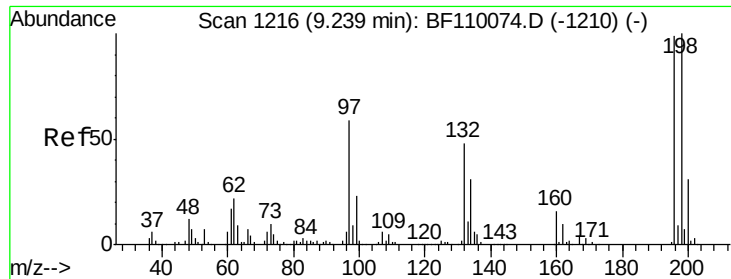
#42
2,4,6-Tribromophenol
Concen: 125.362 ng
RT: 10.80 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.1	115.7
141	37.2	27.0	40.4



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

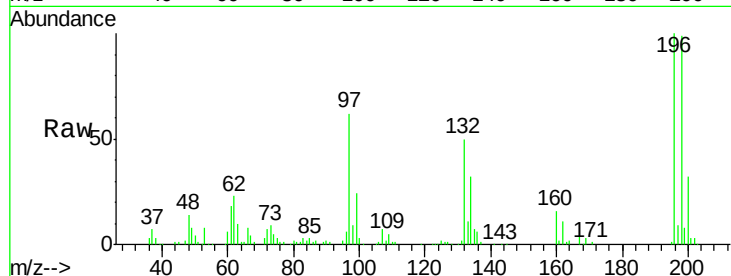




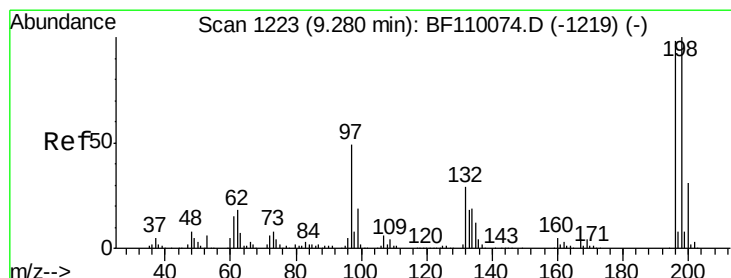
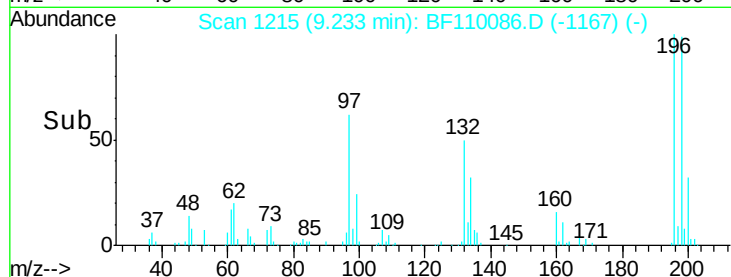
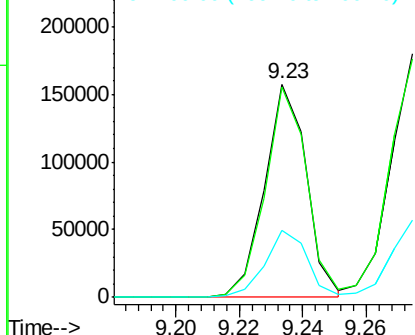
#43
 2,4,6-Trichlorophenol
 Concen: 20.423 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion:196 Resp: 144317
 Ion Ratio Lower Upper
 196 100
 198 98.7 76.2 114.4
 200 31.7 24.4 36.6



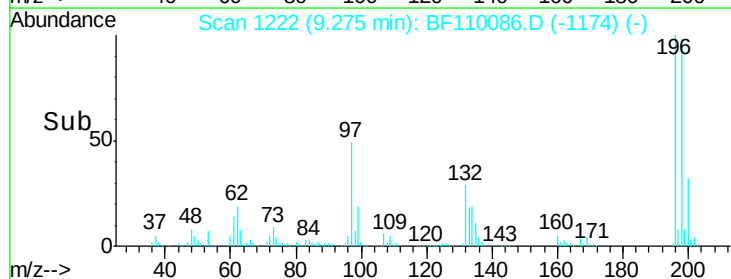
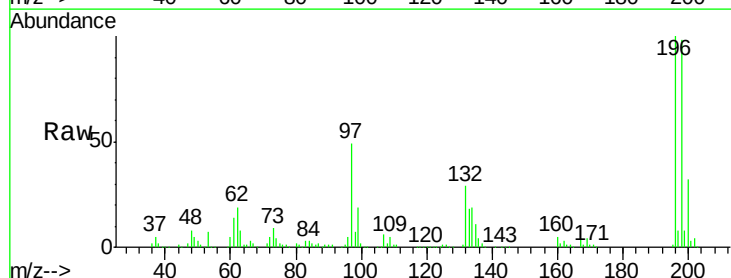
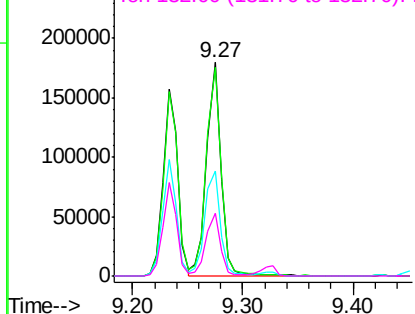
Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

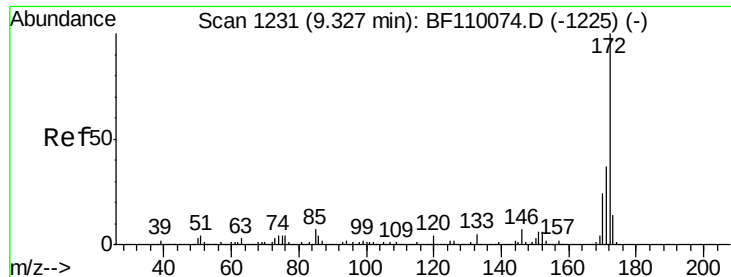


#44
 2,4,5-Trichlorophenol
 Concen: 21.232 ng
 RT: 9.27 min Scan# 1222
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Tgt Ion:196 Resp: 158584
 Ion Ratio Lower Upper
 196 100
 198 97.8 75.8 113.6
 97 49.0 42.4 63.6
 132 29.3 22.8 34.2

Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF1
 Ion 132.00 (131.70 to 132.70): E

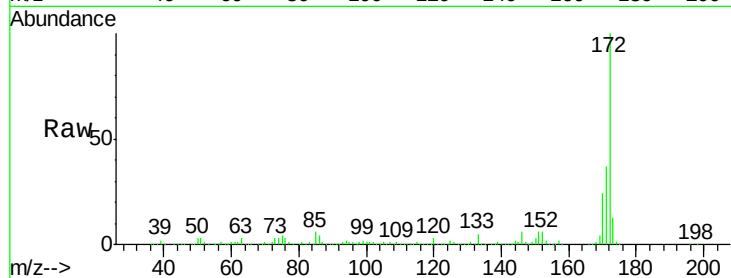




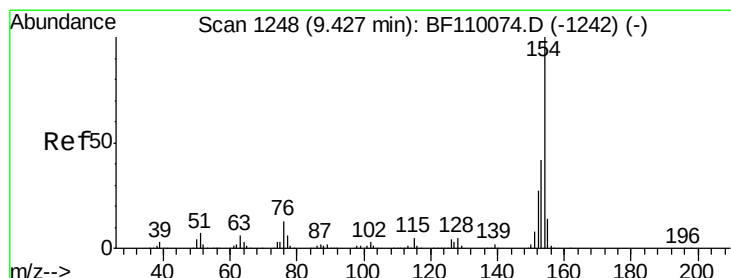
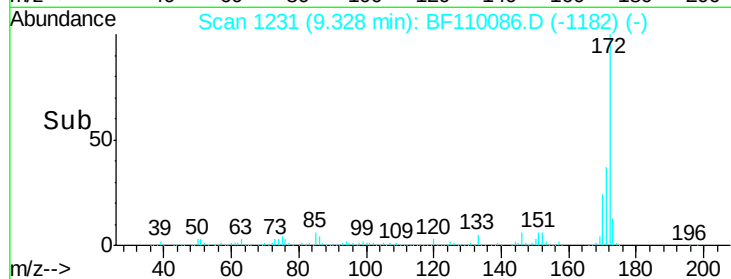
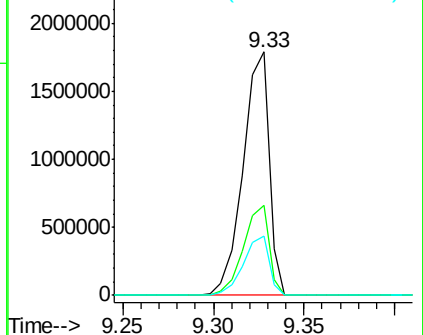
#45
 2-Fluorobiphenyl
 Concen: 79.904 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion:172 Resp: 1789228
 Ion Ratio Lower Upper
 172 100
 171 36.7 28.6 43.0
 170 24.3 19.7 29.5

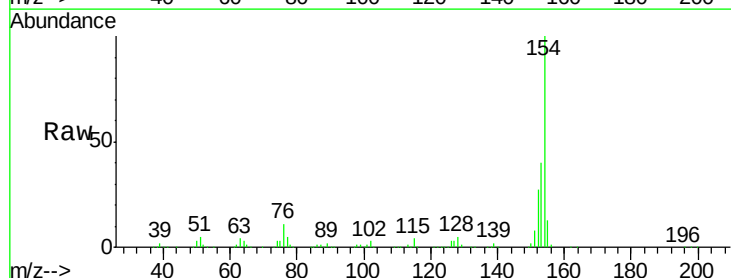


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

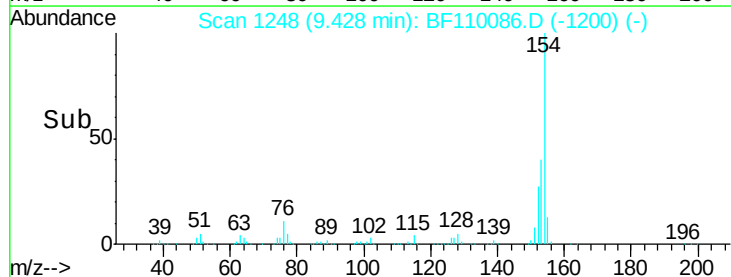
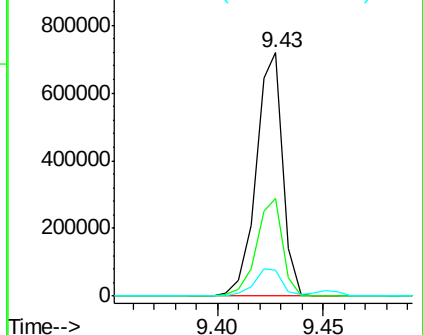


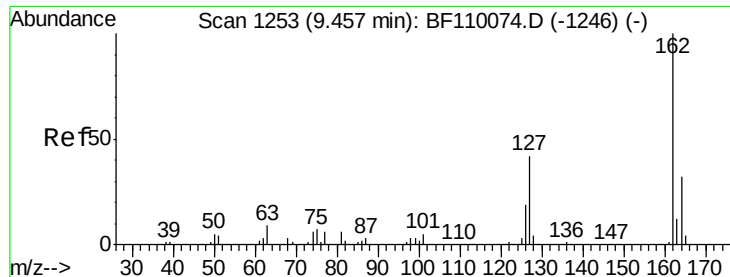
#46
 1,1'-Biphenyl
 Concen: 19.680 ng
 RT: 9.43 min Scan# 1248
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Tgt Ion:154 Resp: 625766
 Ion Ratio Lower Upper
 154 100
 153 40.3 20.4 60.4
 76 10.7 0.0 31.9



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1





#47

2-Chloronaphthalene

Concen: 20.585 ng

RT: 9.45 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

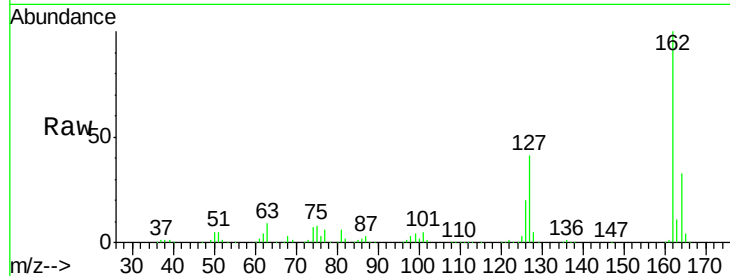
Tgt Ion:162 Resp: 480124

Ion Ratio Lower Upper

162 100

127 41.2 32.6 48.8

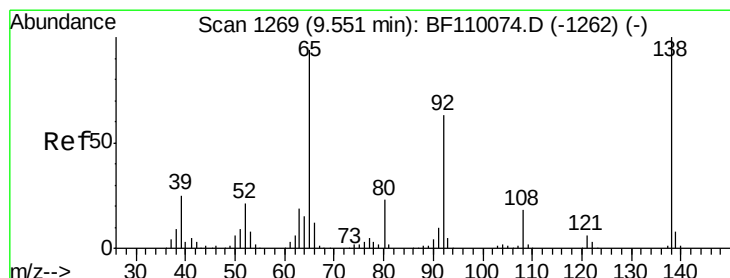
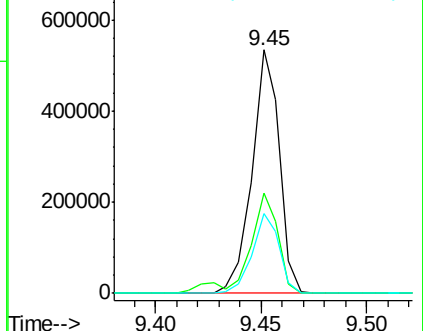
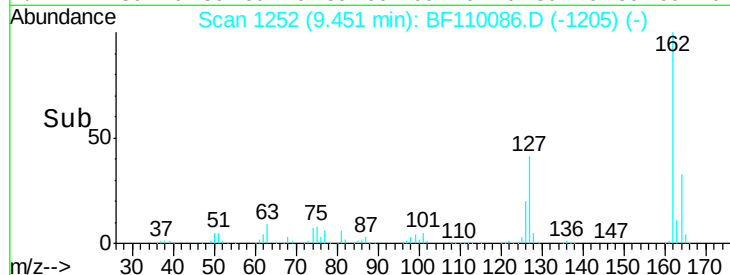
164 32.7 25.9 38.9



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E



#48

2-Nitroaniline

Concen: 20.551 ng

RT: 9.55 min Scan# 1268

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

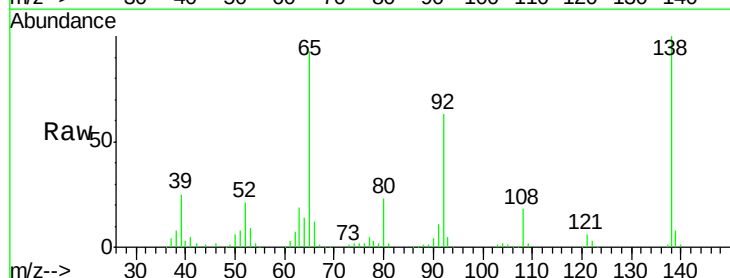
Tgt Ion: 65 Resp: 145253

Ion Ratio Lower Upper

65 100

92 67.8 54.6 81.8

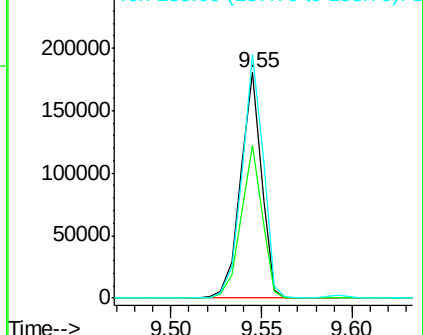
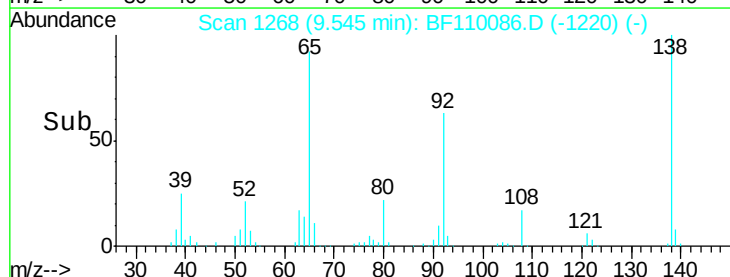
138 107.9 80.3 120.5

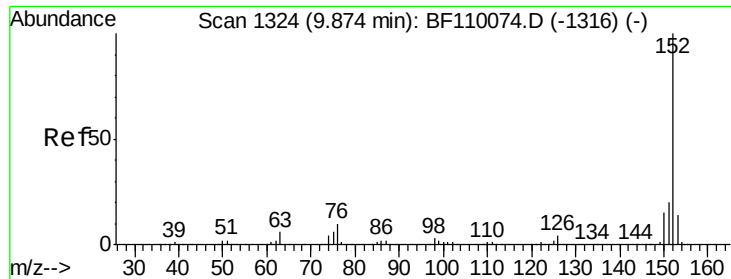


Abundance Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 22.092 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

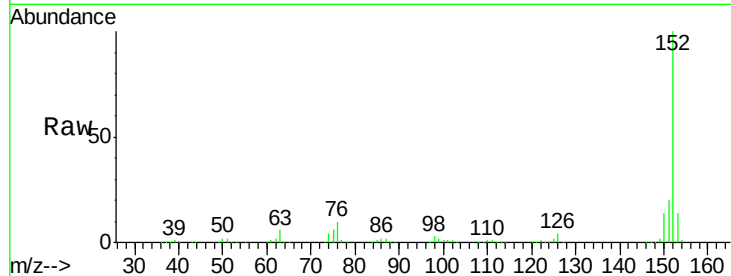
Tgt Ion:152 Resp: 744228

Ion Ratio Lower Upper

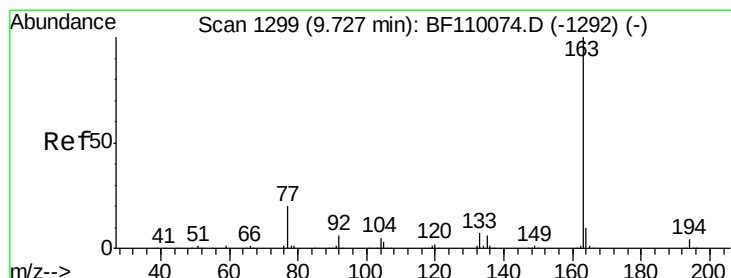
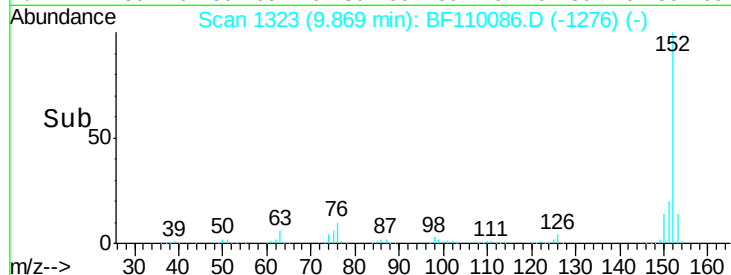
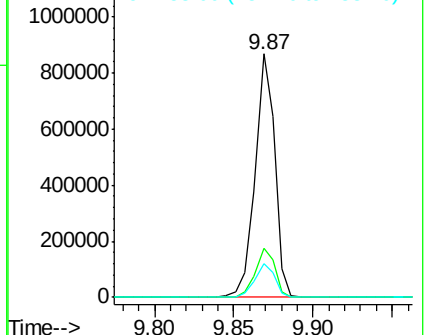
152 100

151 20.1 15.8 23.8

153 13.8 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 21.091 ng

RT: 9.72 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

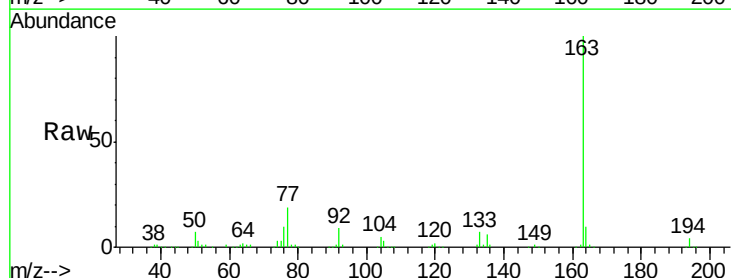
Tgt Ion:163 Resp: 547420

Ion Ratio Lower Upper

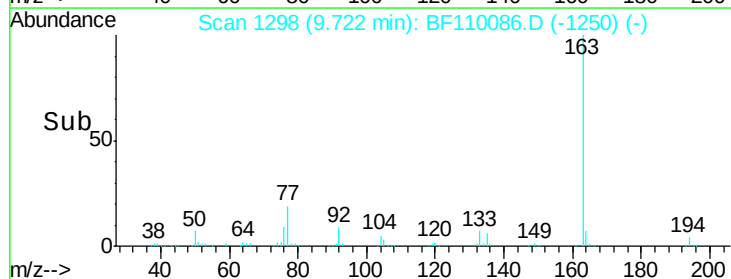
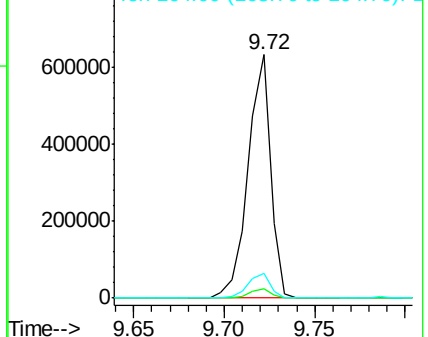
163 100

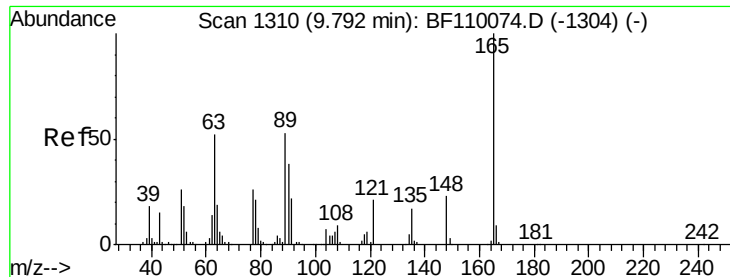
194 3.6 3.2 4.8

164 10.1 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 21.428 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

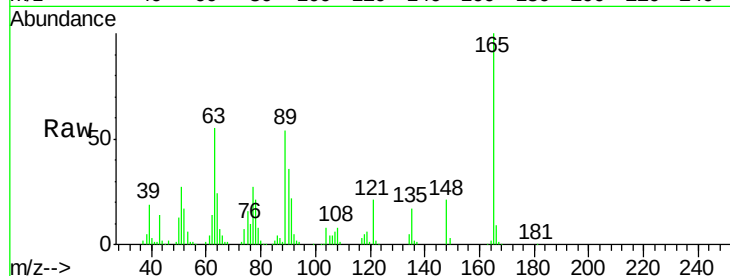
Tgt Ion:165 Resp: 119804

Ion Ratio Lower Upper

165 100

63 54.6 48.9 73.3

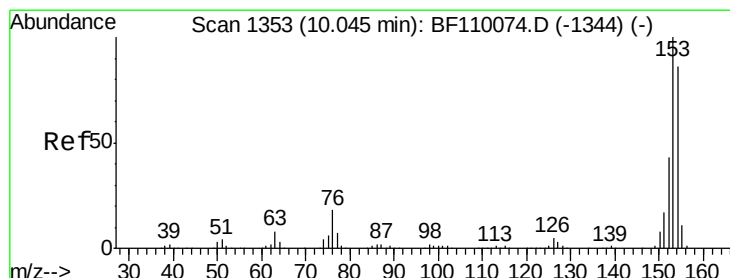
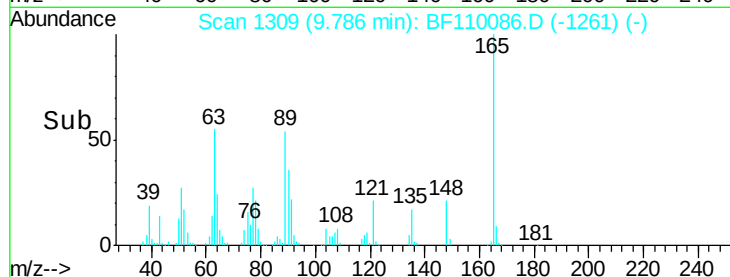
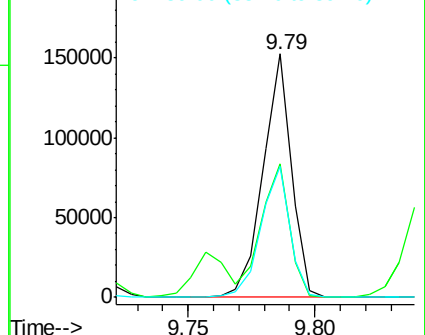
89 53.9 46.6 69.8



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#52

Acenaphthene

Concen: 21.270 ng

RT: 10.04 min Scan# 1352

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

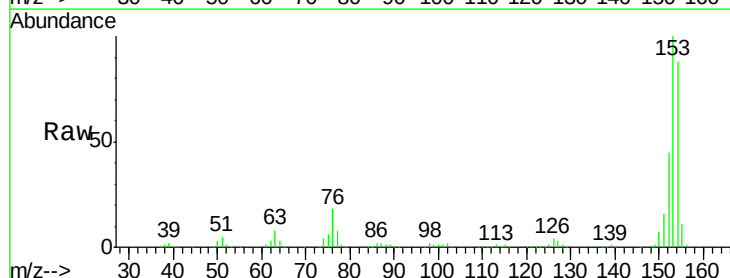
Tgt Ion:154 Resp: 474010

Ion Ratio Lower Upper

154 100

153 114.1 90.1 135.1

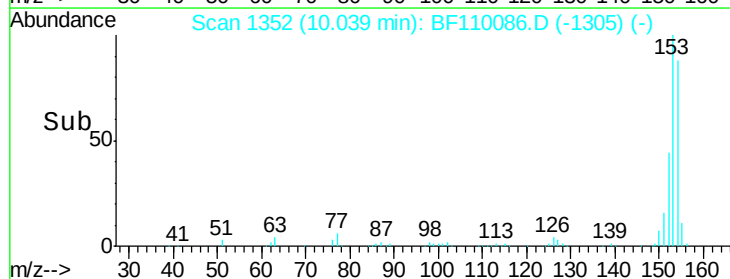
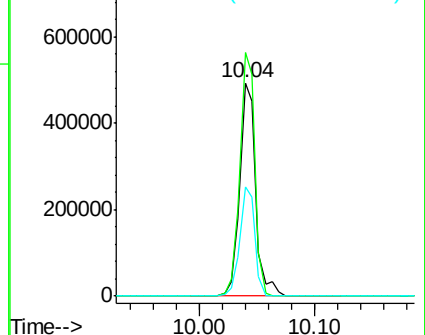
152 51.0 43.4 65.2

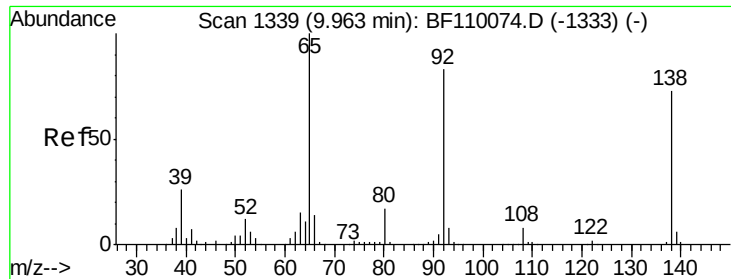


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

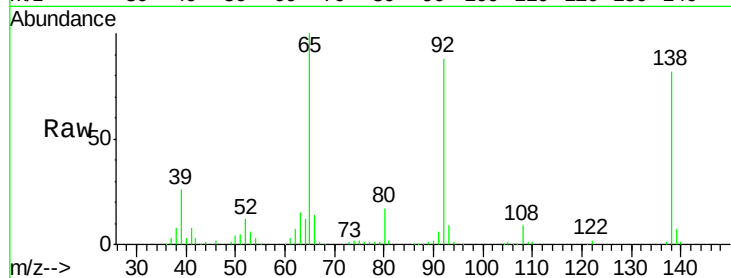




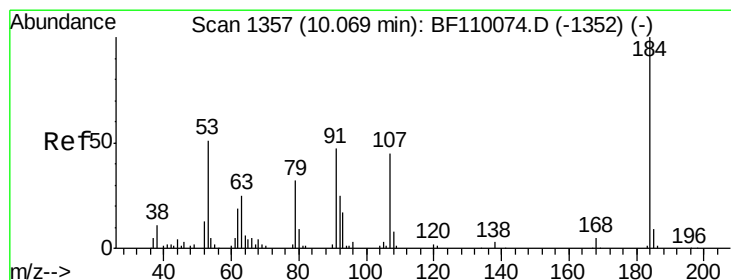
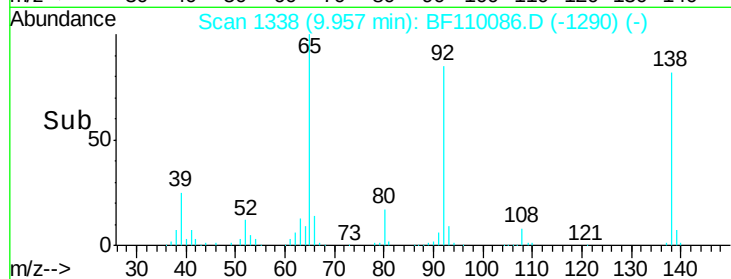
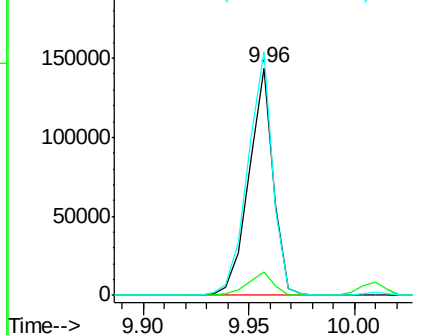
#53
3-Nitroaniline
Concen: 17.352 ng
RT: 9.96 min Scan# 1338
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:138 Resp: 115370
Ion Ratio Lower Upper
138 100
108 10.4 8.7 13.1
92 107.1 97.0 145.4

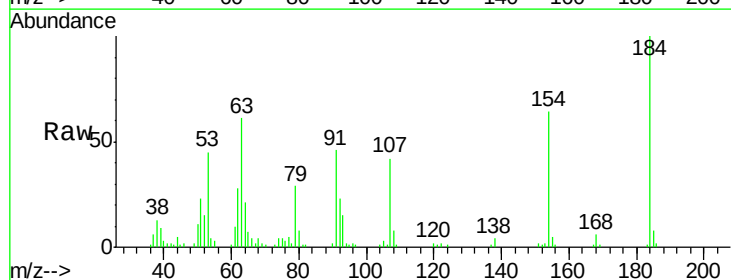


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 92.00 (91.70 to 92.70): BF1

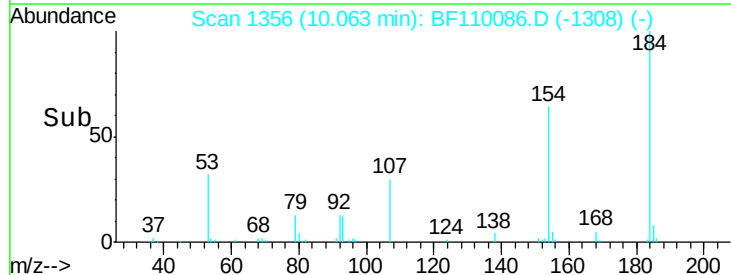
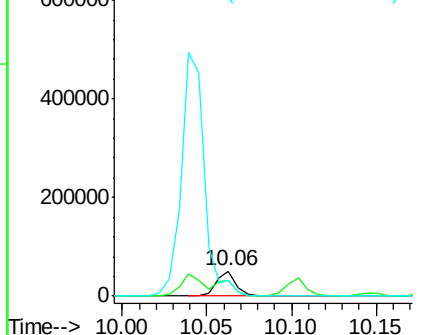


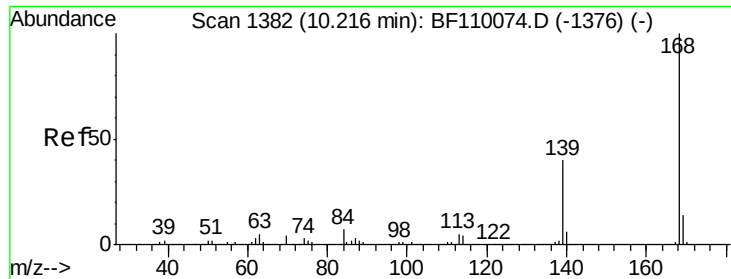
#54
2,4-Dinitrophenol
Concen: 22.579 ng
RT: 10.06 min Scan# 1356
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:184 Resp: 41289
Ion Ratio Lower Upper
184 100
63 60.9 55.8 83.6
154 63.8 63.2 94.8



Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 154.00 (153.70 to 154.70): E

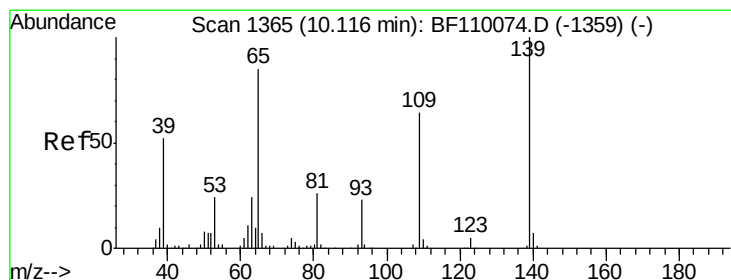
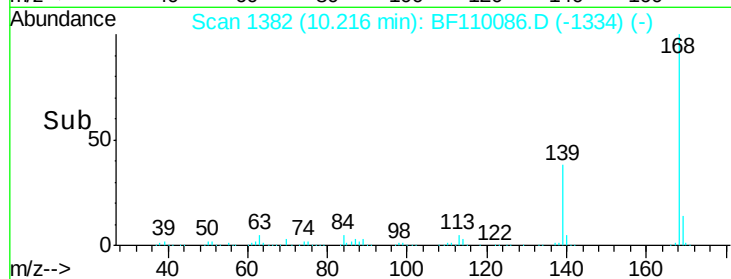
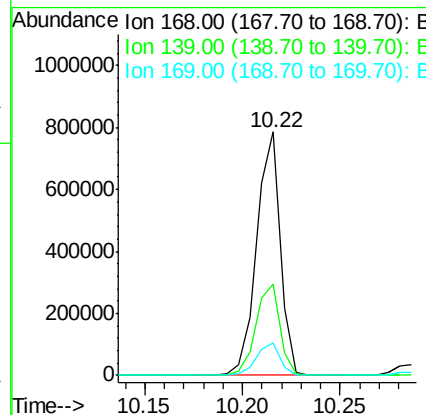
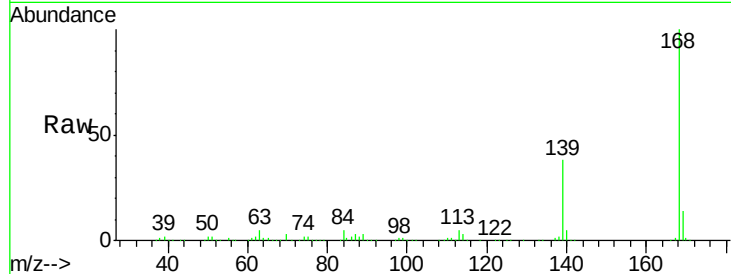




#55
Dibenzenofuran
Concen: 21.092 ng
RT: 10.22 min Scan# 1382
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

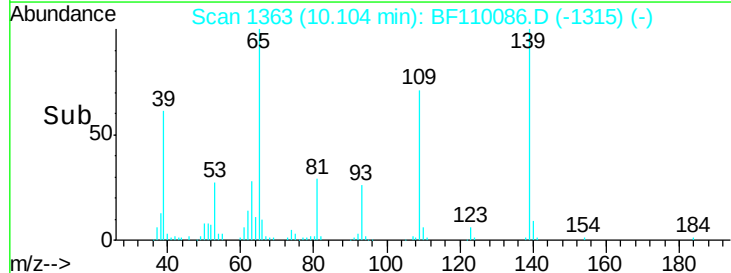
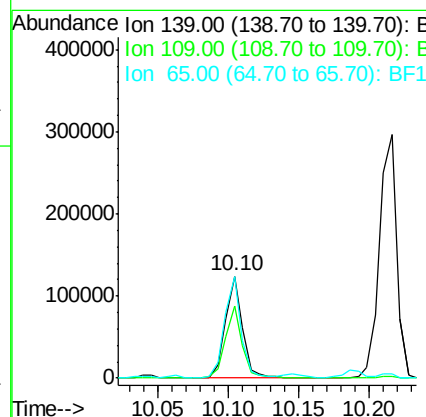
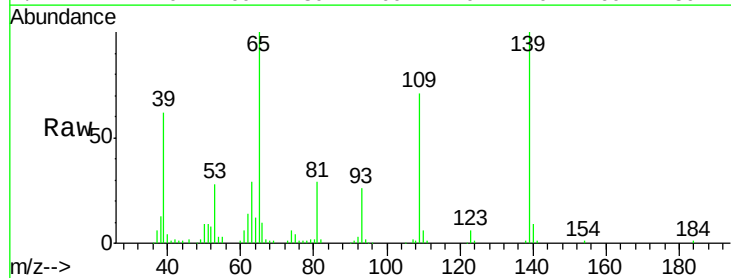
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

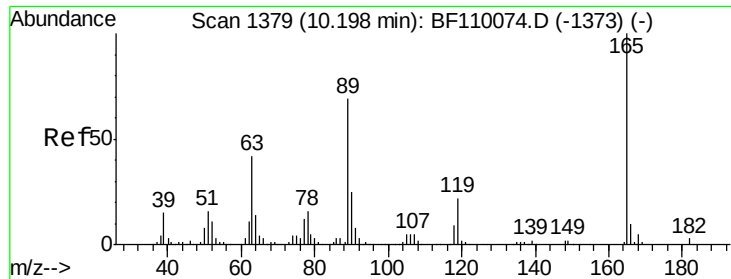
Tgt Ion:168 Resp: 658120
Ion Ratio Lower Upper
168 100
139 37.7 33.0 49.6
169 13.6 11.3 16.9



#56
4-Nitrophenol
Concen: 21.500 ng
RT: 10.10 min Scan# 1363
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:139 Resp: 105794
Ion Ratio Lower Upper
139 100
109 71.4 55.8 95.8
65 99.6 77.9 117.9

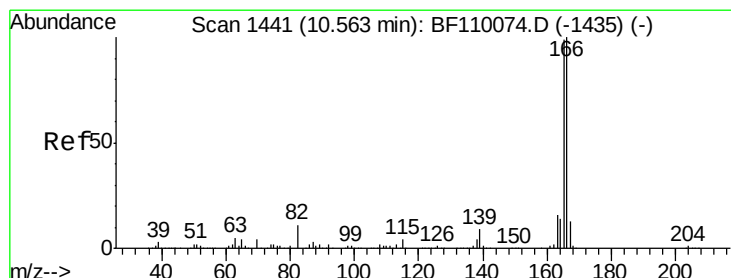
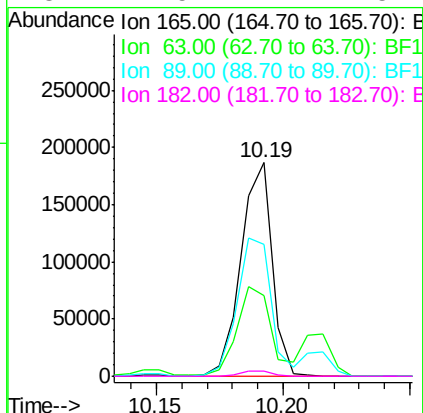
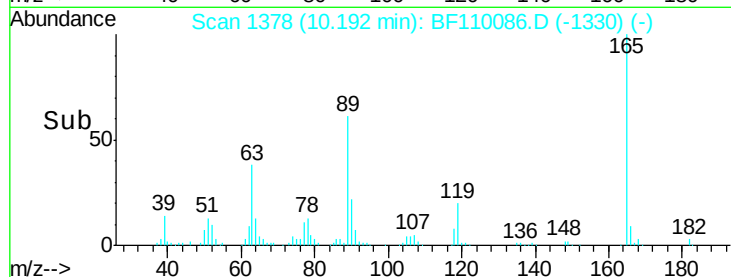
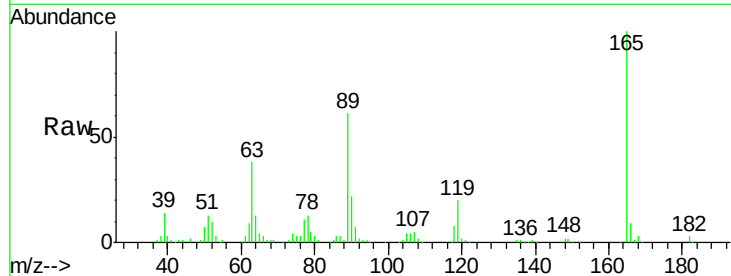




#57
2,4-Dinitrotoluene
Concen: 22.449 ng
RT: 10.19 min Scan# 1378
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

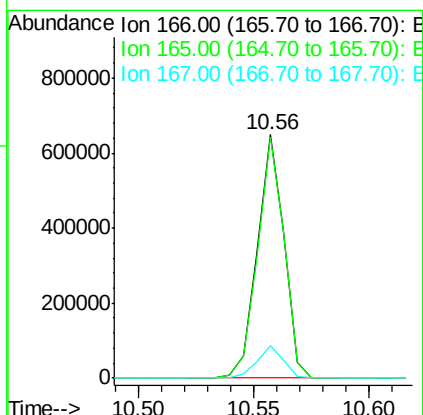
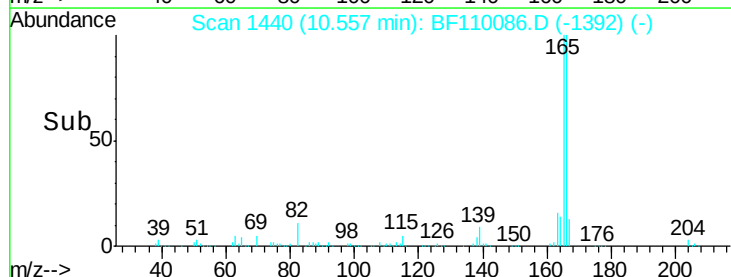
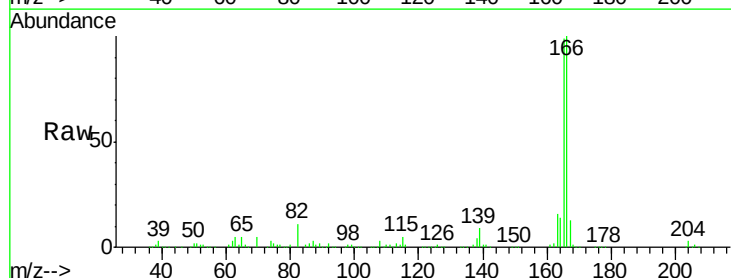
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

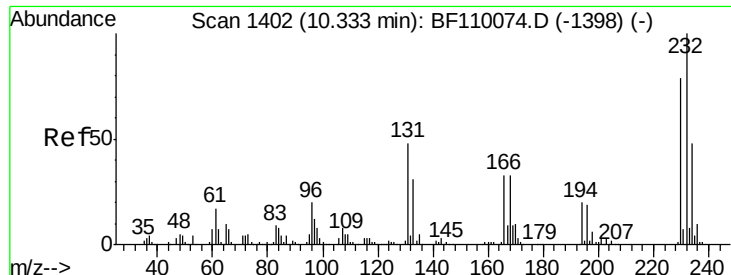
Tgt Ion	Ratio	Lower	Upper
165	100		
63	37.7	44.8	67.2#
89	61.5	62.2	93.4#
182	2.5	2.1	3.1



#58
Fluorene
Concen: 22.525 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.6	117.8
167	13.3	10.8	16.2

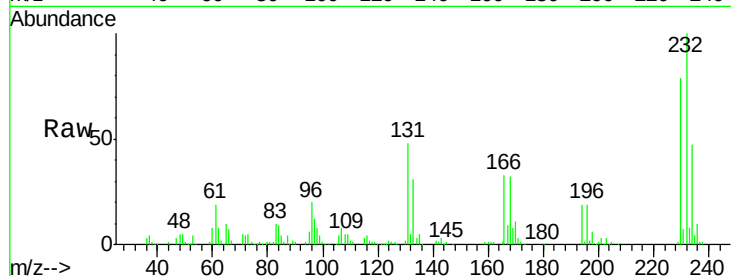




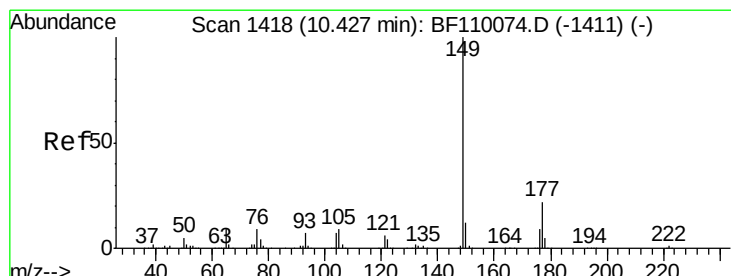
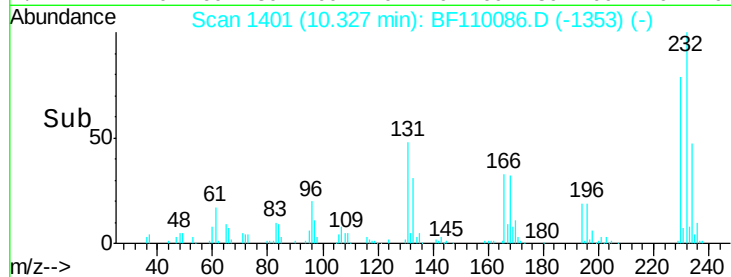
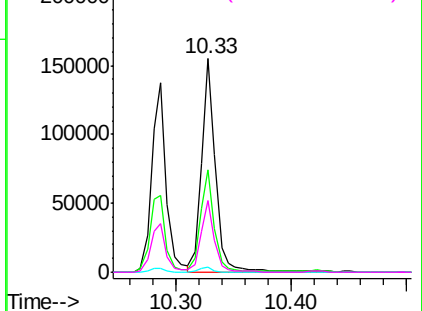
#59
 2,3,4,6-Tetrachlorophenol
 Concen: 21.704 ng
 RT: 10.33 min Scan# 1401
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion:	232	Resp:	132138
Ion	Ratio	Lower	Upper
232	100		
131	48.2	37.0	55.4
130	2.4	1.8	2.6
166	33.0	22.0	33.0

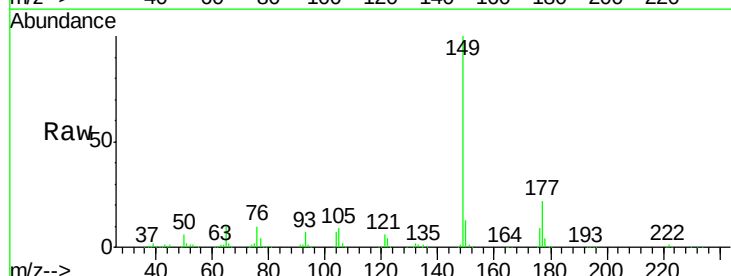


Abundance Ion 232.00 (231.70 to 232.70): E
 Ion 131.00 (130.70 to 131.70): E
 Ion 130.00 (129.70 to 130.70): E
 Ion 166.00 (165.70 to 166.70): E

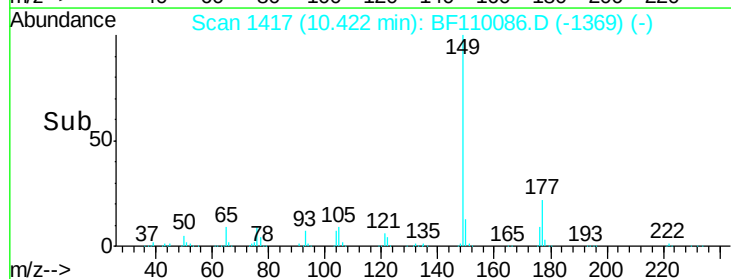
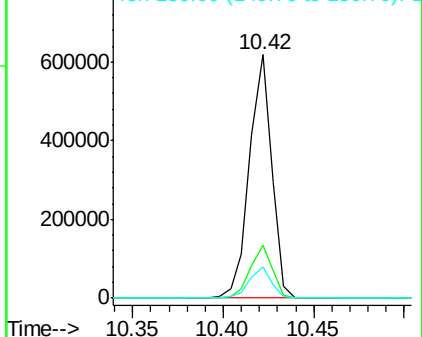


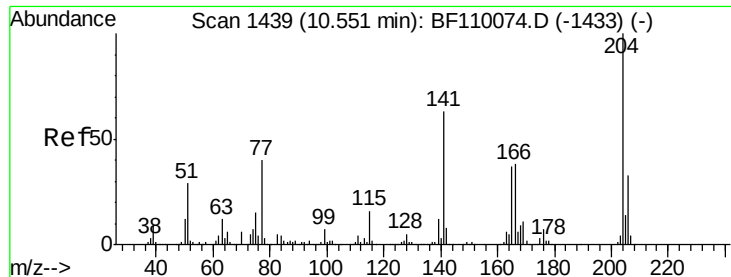
#60
 Diethylphthalate
 Concen: 20.904 ng
 RT: 10.42 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Tgt Ion:	149	Resp:	529626
Ion	Ratio	Lower	Upper
149	100		
177	21.8	17.4	26.2
150	12.7	9.8	14.8



Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 177.00 (176.70 to 177.70): E
 Ion 150.00 (149.70 to 150.70): E

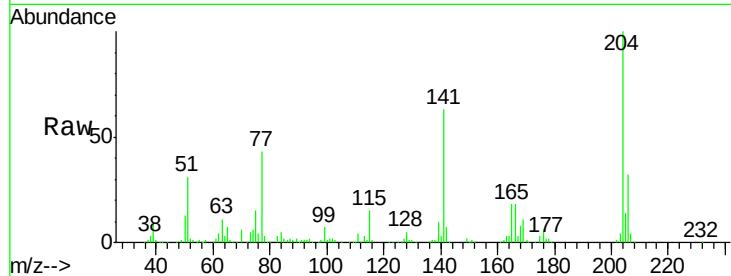




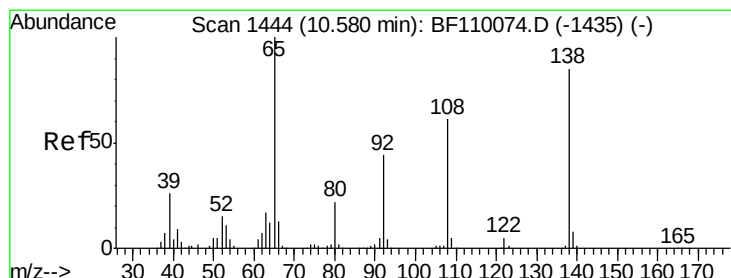
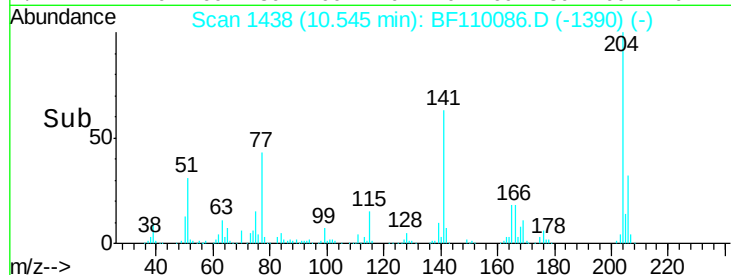
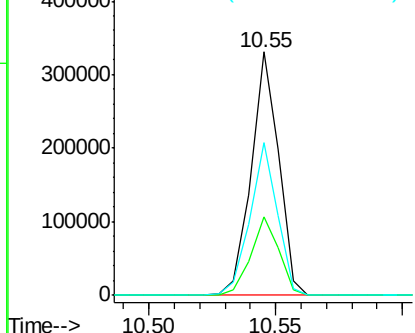
#61
4-Chlorophenyl-phenylether
Concen: 20.448 ng
RT: 10.55 min Scan# 1438
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion: 204 Resp: 250495
Ion Ratio Lower Upper
204 100
206 32.3 26.5 39.7
141 63.0 51.8 77.8

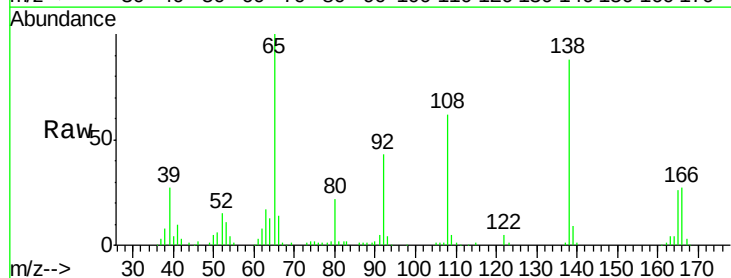


Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E

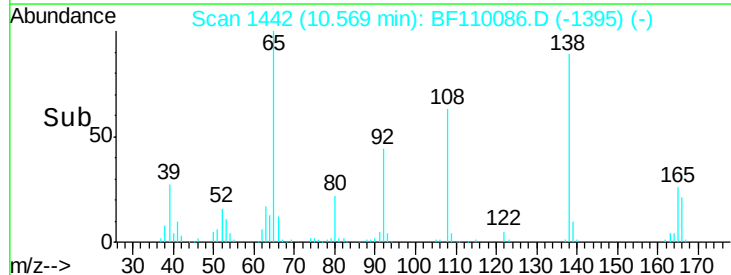
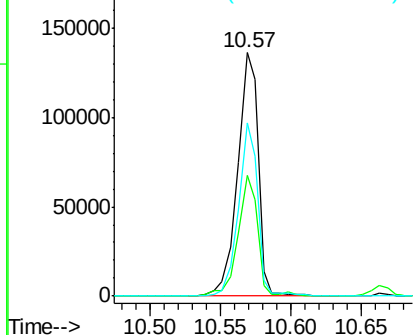


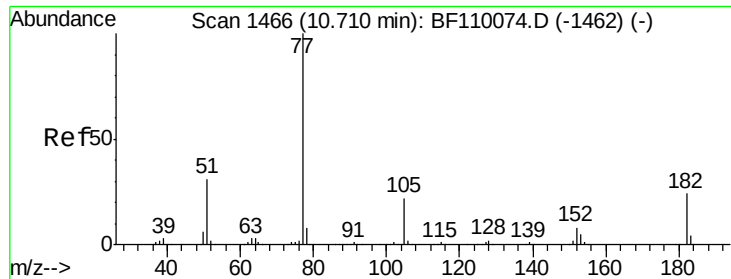
#62
4-Nitroaniline
Concen: 20.972 ng
RT: 10.57 min Scan# 1442
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion: 138 Resp: 138680
Ion Ratio Lower Upper
138 100
92 49.6 31.7 71.7
108 71.1 59.3 99.3



Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BF1
Ion 108.00 (107.70 to 108.70): E





#63

Azobenzene

Concen: 21.493 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 77 Resp: 540535

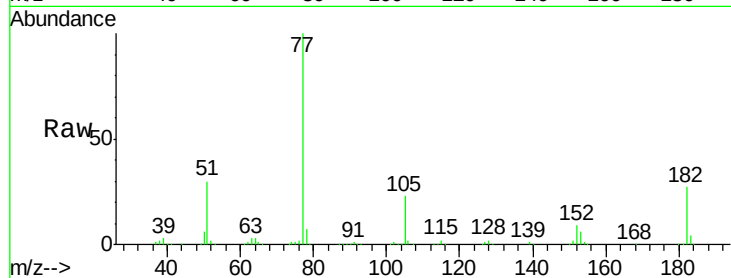
Ion Ratio Lower Upper

77 100

182 27.1 4.3 44.3

105 23.3 1.3 41.3

51 29.7 9.0 49.0

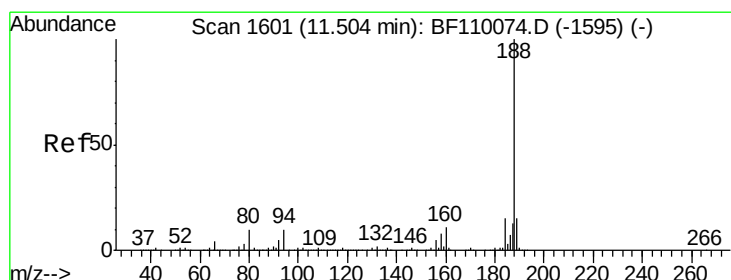
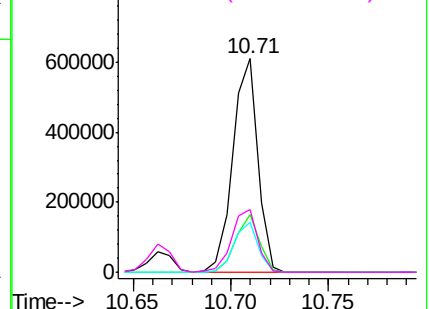
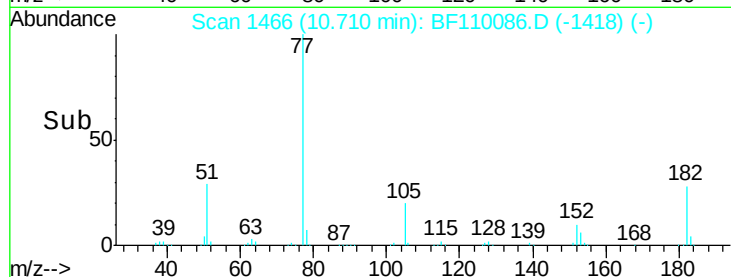


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1600

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

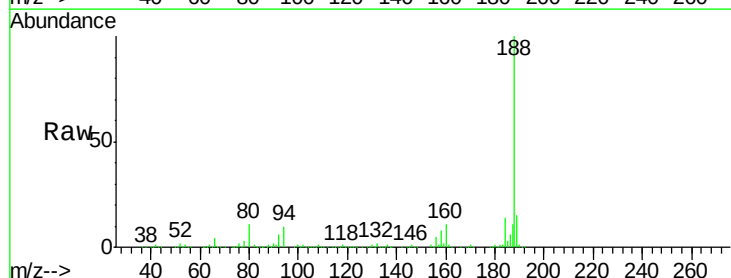
Tgt Ion: 188 Resp: 674866

Ion Ratio Lower Upper

188 100

94 10.1 7.2 10.8

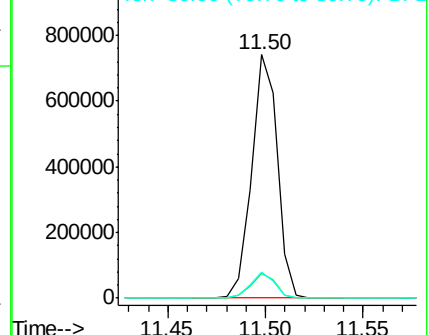
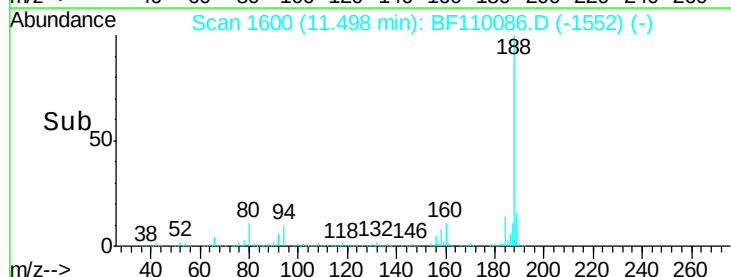
80 10.6 7.9 11.9

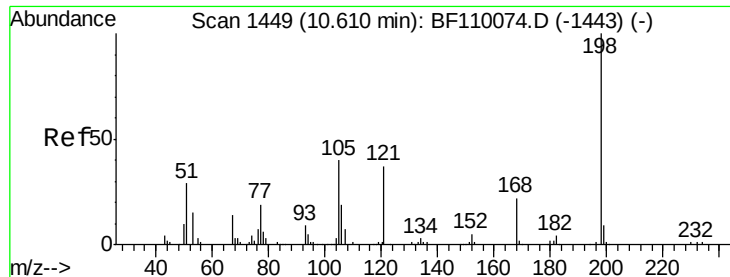


Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

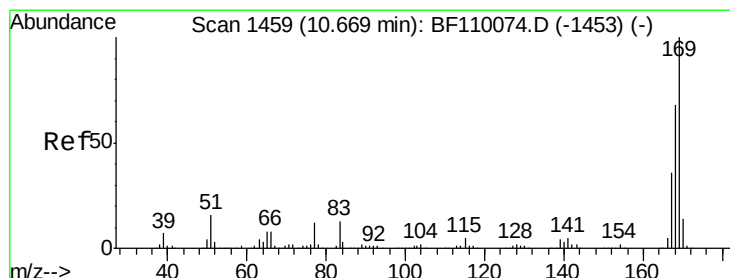
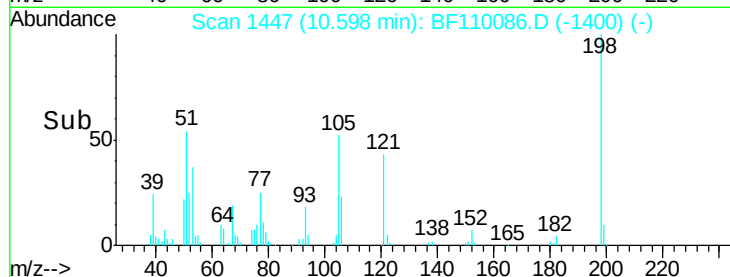
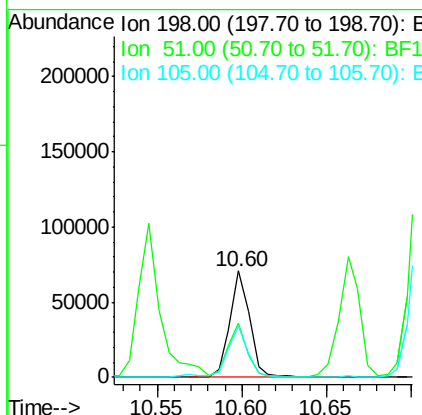
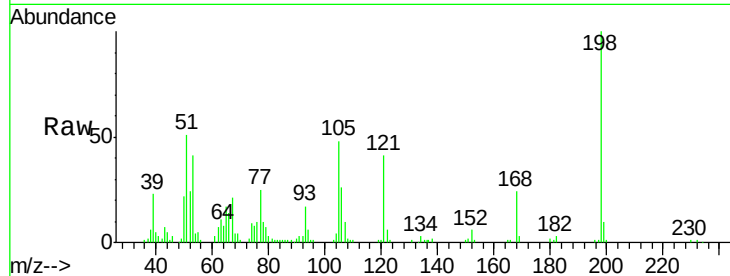




#65
 4,6-Dinitro-2-methylphenol
 Concen: 18.777 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

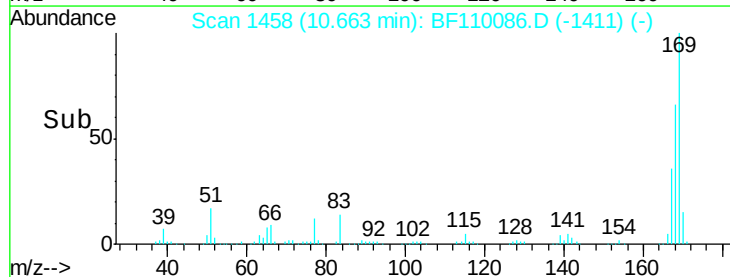
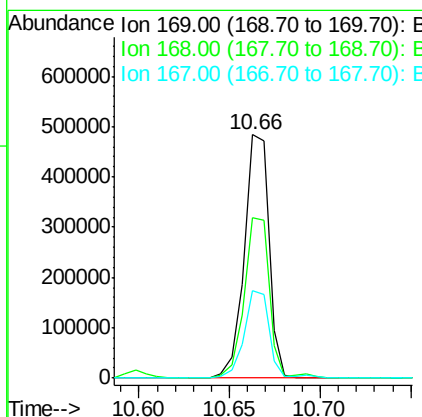
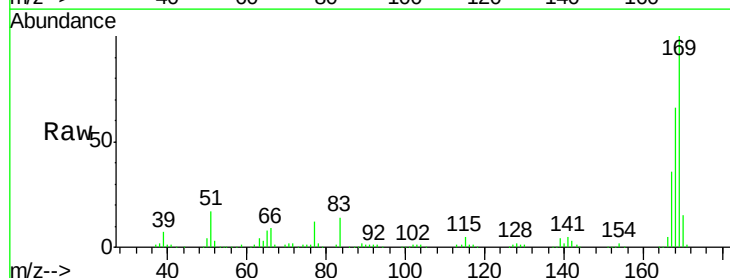
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

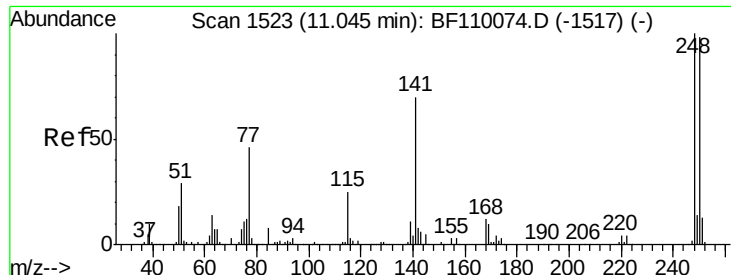
Tgt Ion:198 Resp: 57894
 Ion Ratio Lower Upper
 198 100
 51 50.9 22.8 62.8
 105 48.3 23.6 63.6



#66
 n-Nitrosodiphenylamine
 Concen: 20.730 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Tgt Ion:169 Resp: 458881
 Ion Ratio Lower Upper
 169 100
 168 65.9 51.2 76.8
 167 35.7 27.8 41.6

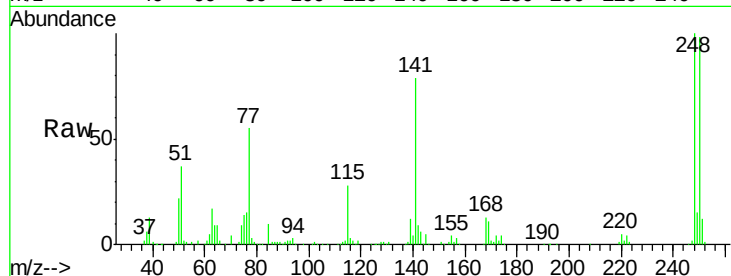




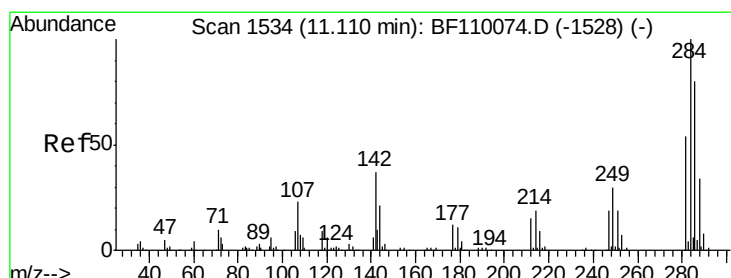
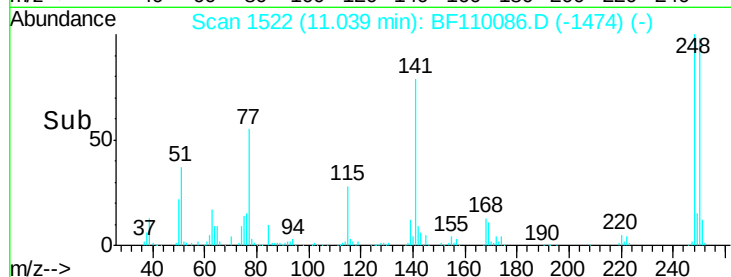
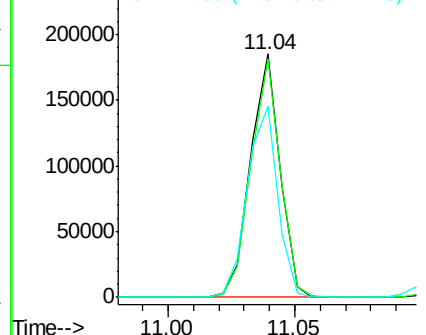
#67
 4-Bromophenyl-phenylether
 Concen: 20.472 ng
 RT: 11.04 min Scan# 1522
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion: 248 Resp: 149861
 Ion Ratio Lower Upper
 248 100
 250 98.1 79.4 119.2
 141 78.5 55.9 83.9

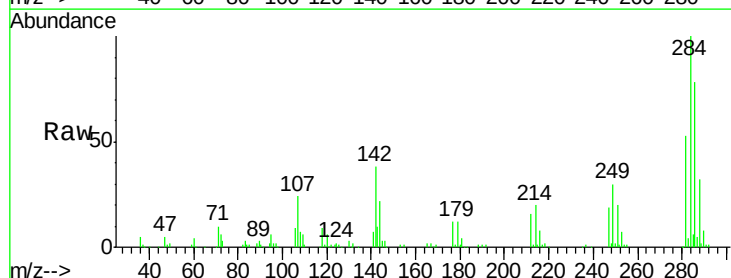


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

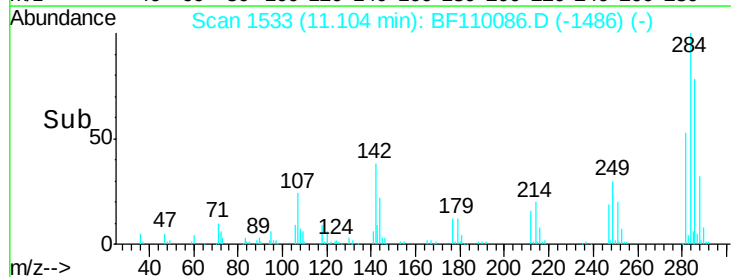
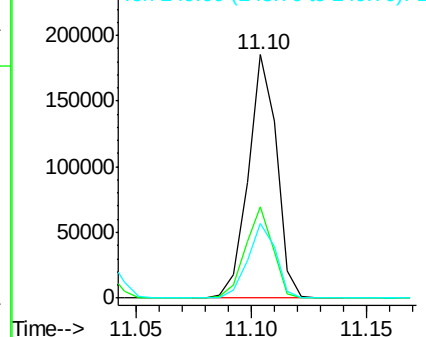


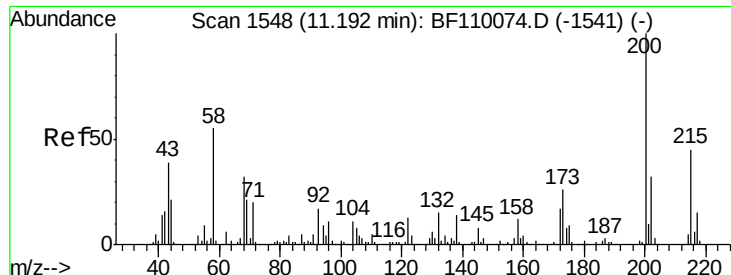
#68
 Hexachlorobenzene
 Concen: 20.454 ng
 RT: 11.10 min Scan# 1533
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Tgt Ion: 284 Resp: 158871
 Ion Ratio Lower Upper
 284 100
 142 37.7 23.9 35.9#
 249 30.5 24.2 36.2



Abundance Ion 283.80 (283.50 to 284.50): E
 Ion 142.00 (141.70 to 142.70): E
 Ion 249.00 (248.70 to 249.70): E





#69

Atrazine

Concen: 21.262 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

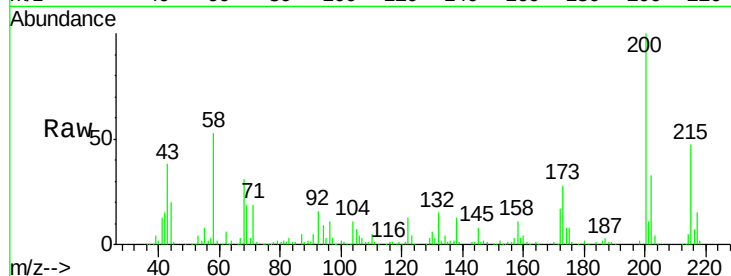
Tgt Ion:200 Resp: 148738

Ion Ratio Lower Upper

200 100

173 28.0 6.6 46.6

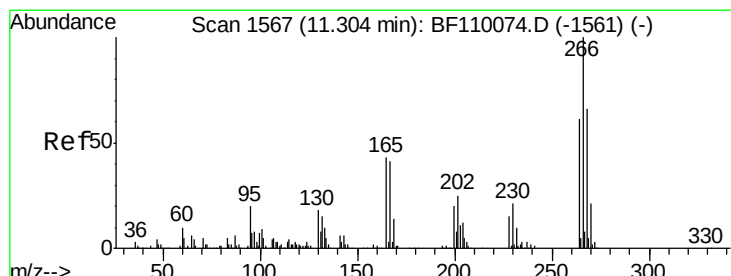
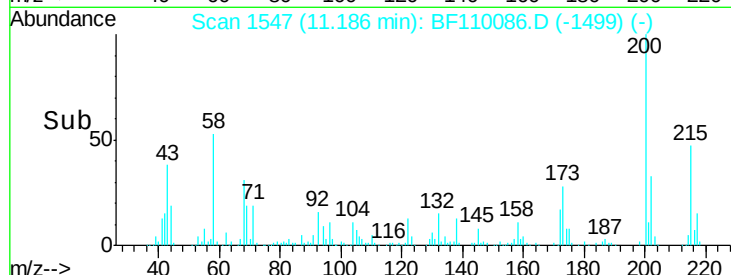
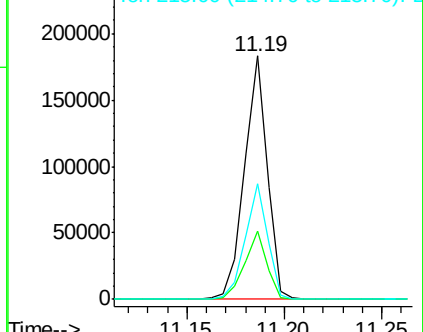
215 47.2 26.3 66.3



Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#70

Pentachlorophenol

Concen: 16.480 ng

RT: 11.30 min Scan# 1566

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

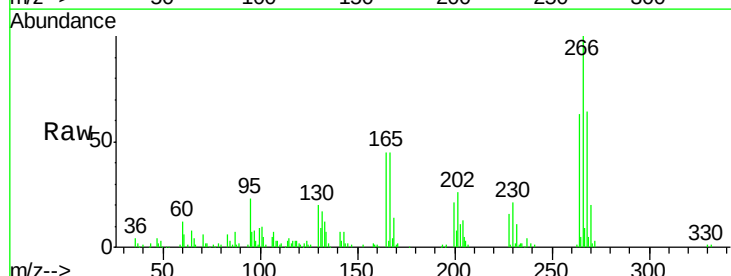
Tgt Ion:266 Resp: 74641

Ion Ratio Lower Upper

266 100

268 64.5 50.6 75.8

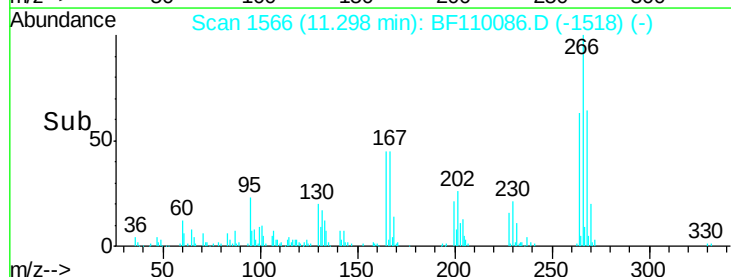
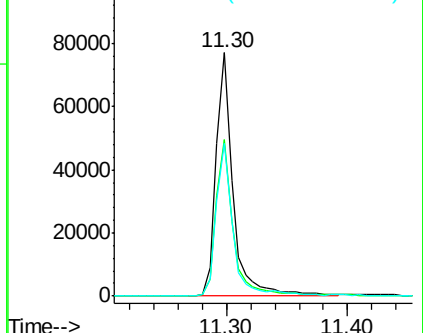
264 62.9 50.6 75.8

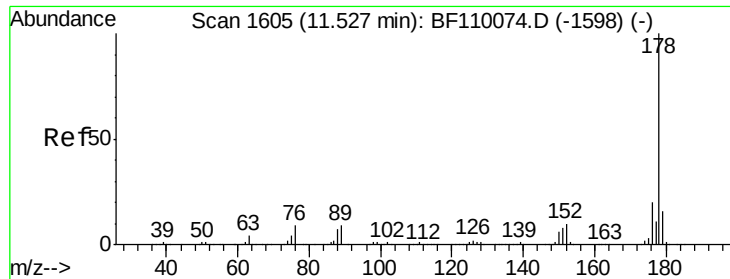


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

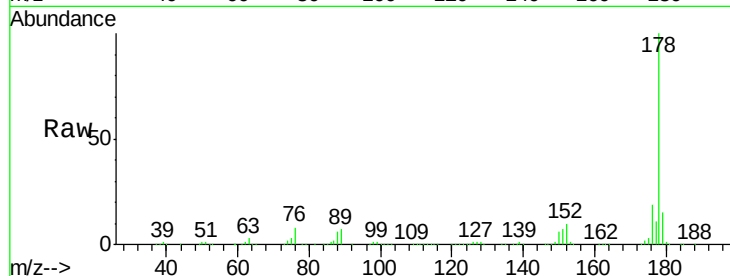




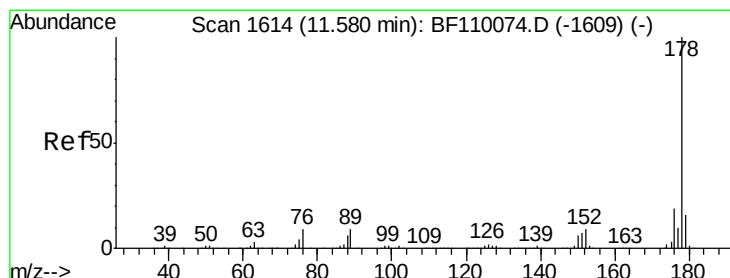
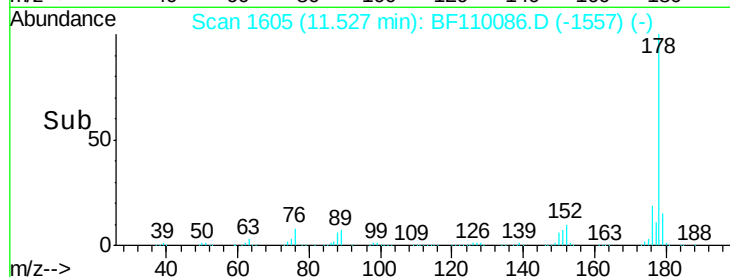
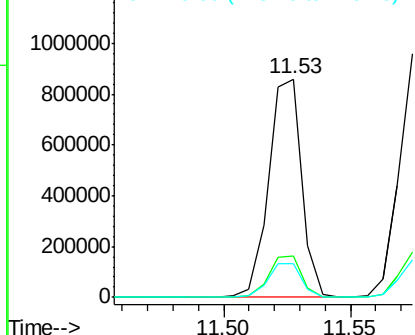
#71
Phenanthrene
Concen: 22.219 ng
RT: 11.53 min Scan# 1605
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:178 Resp: 784584
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.4 12.5 18.7

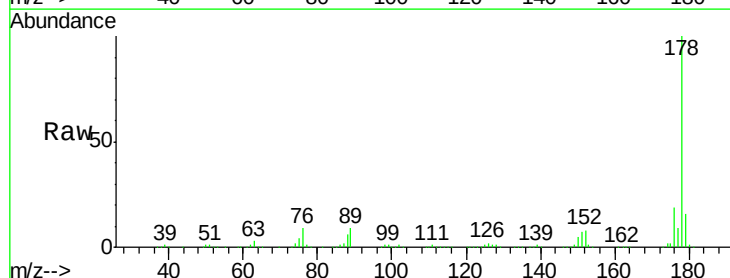


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

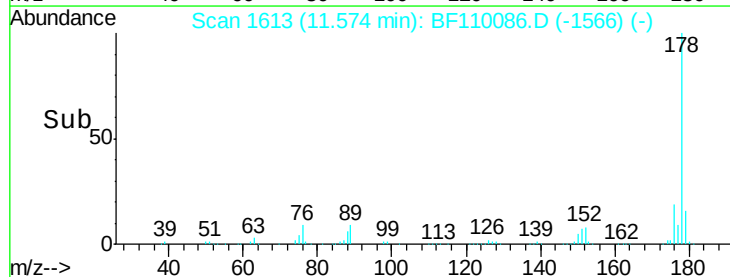
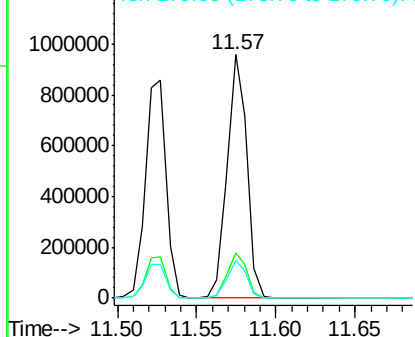


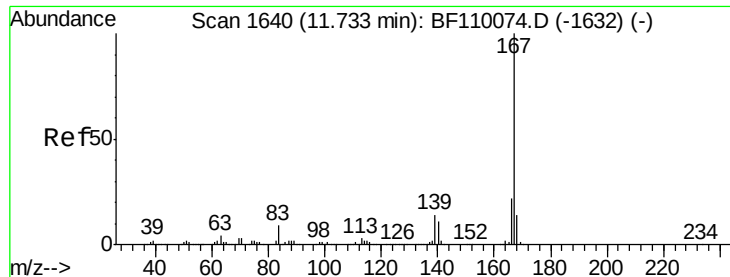
#72
Anthracene
Concen: 23.189 ng
RT: 11.57 min Scan# 1613
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:178 Resp: 820784
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 15.6 12.6 18.8



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

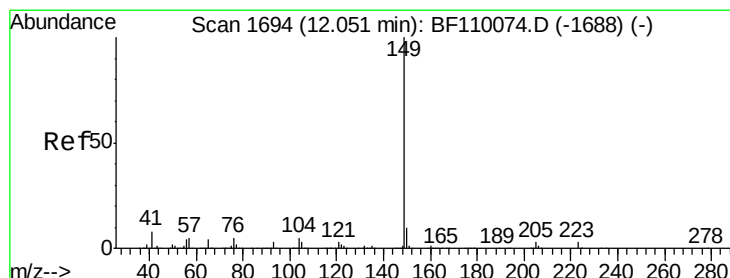
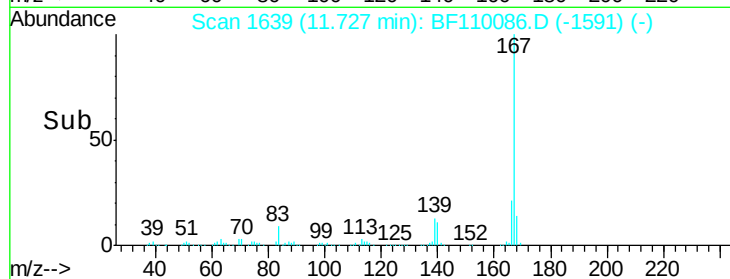
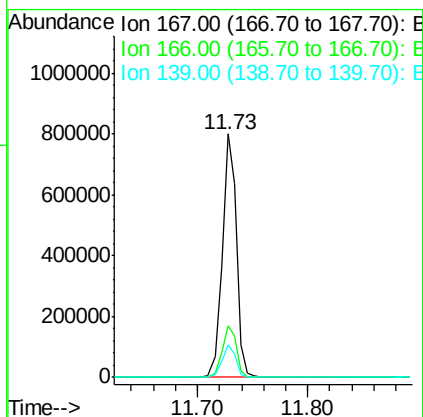
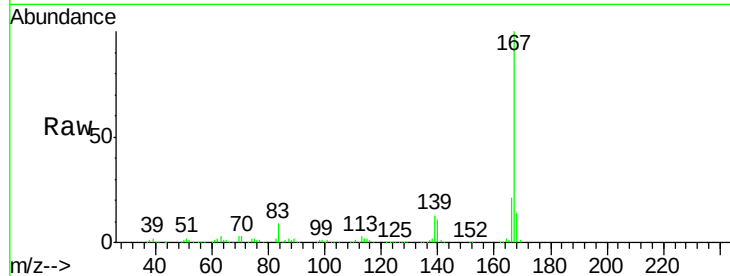




#73
 Carbazole
 Concen: 20.567 ng
 RT: 11.73 min Scan# 1639
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

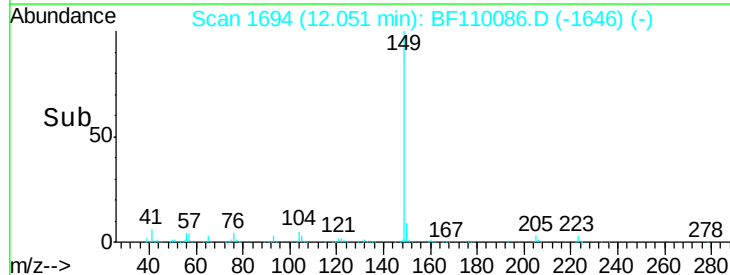
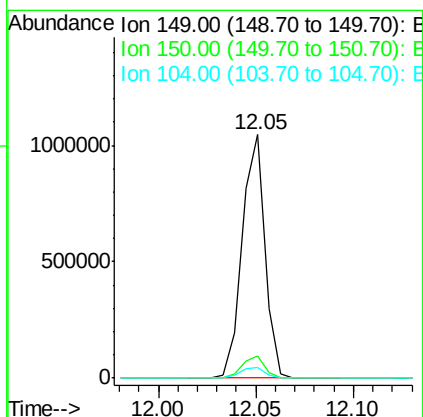
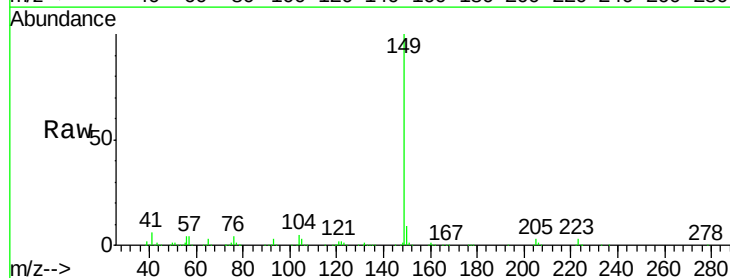
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

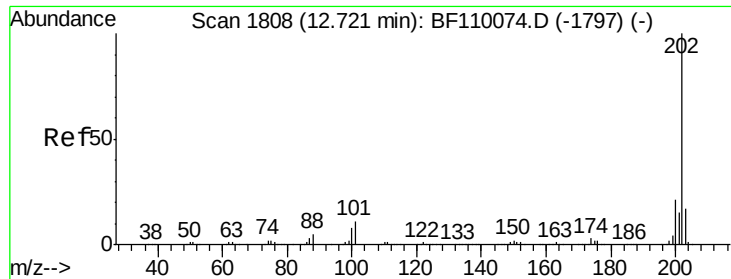
Tgt Ion:167 Resp: 710765
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.4 26.0
 139 13.5 10.9 16.3



#74
 Di-n-butylphthalate
 Concen: 21.633 ng
 RT: 12.05 min Scan# 1694
 Delta R.T. -0.02 min
 Lab File: BF110086.D
 Acq: 23 Oct 2018 19:15

Tgt Ion:149 Resp: 844363
 Ion Ratio Lower Upper
 149 100
 150 9.0 7.7 11.5
 104 4.5 4.2 6.4

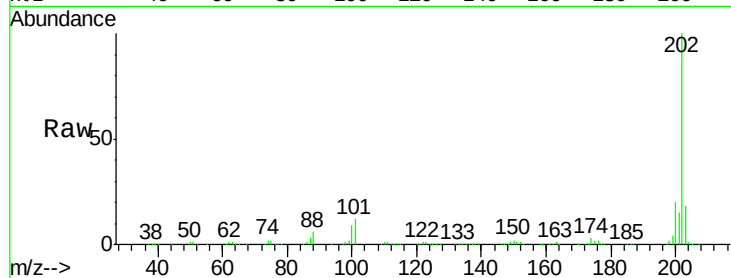




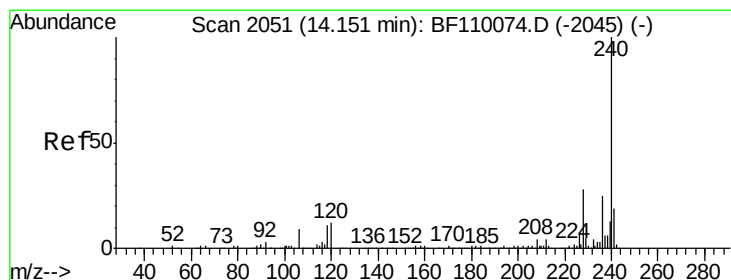
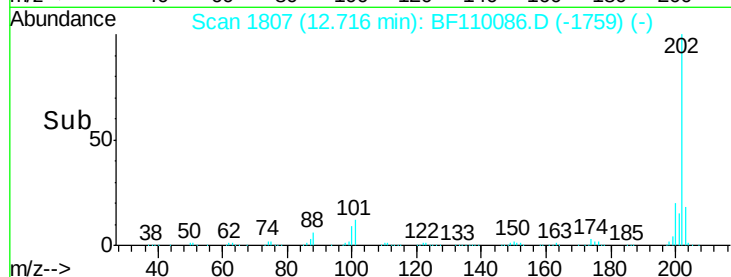
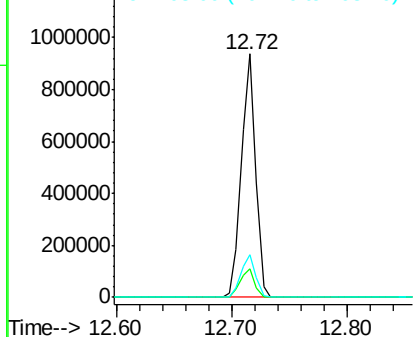
#75
Fluoranthene
Concen: 22.511 ng
RT: 12.72 min Scan# 1807
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion: 202 Resp: 806760
Ion Ratio Lower Upper
202 100
101 11.7 0.0 31.4
203 17.7 0.0 37.7

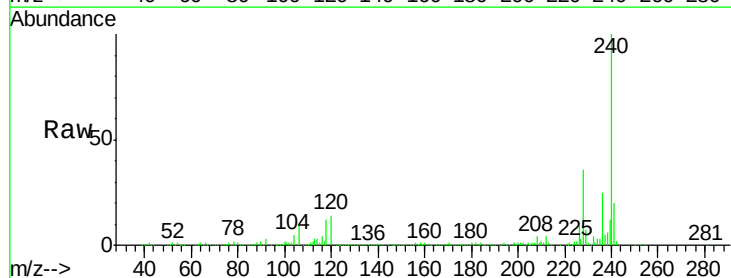


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

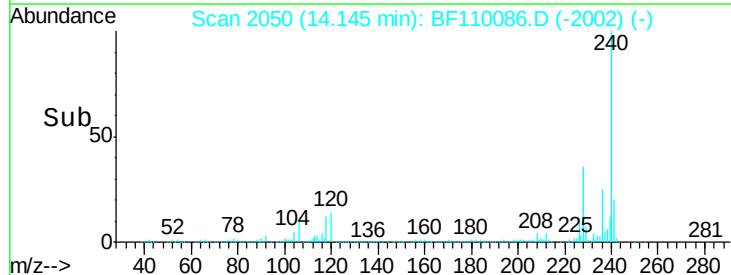
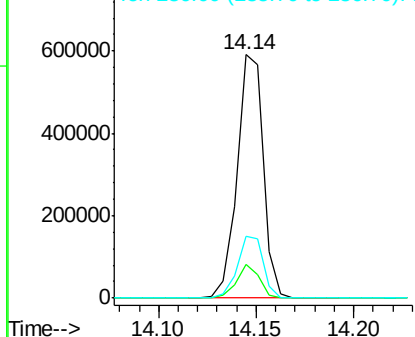


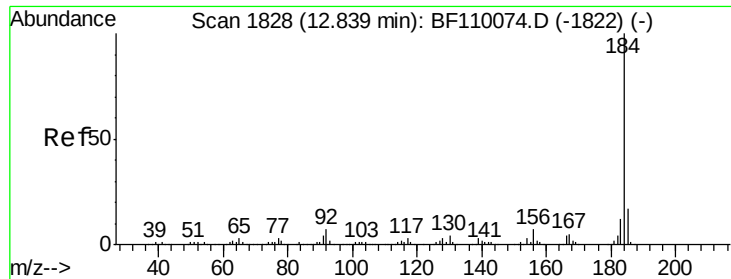
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.14 min Scan# 2050
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion: 240 Resp: 547659
Ion Ratio Lower Upper
240 100
120 13.7 8.3 12.5#
236 25.4 21.2 31.8



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

Benzidine

Concen: 11.848 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

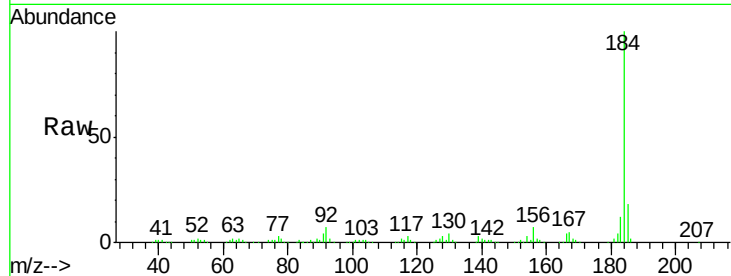
Tgt Ion:184 Resp: 250018

Ion Ratio Lower Upper

184 100

185 18.3 13.4 20.2

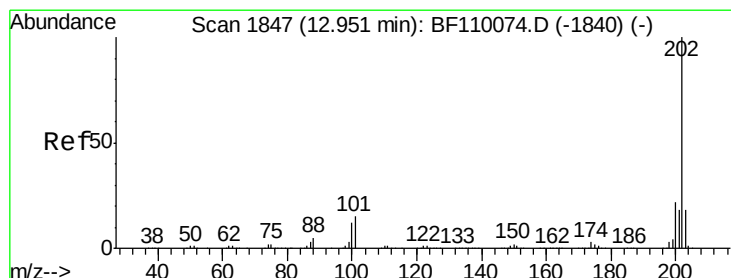
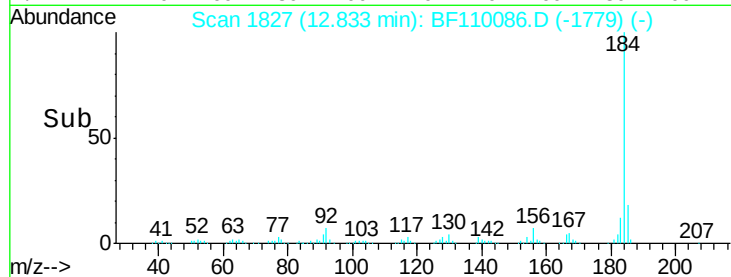
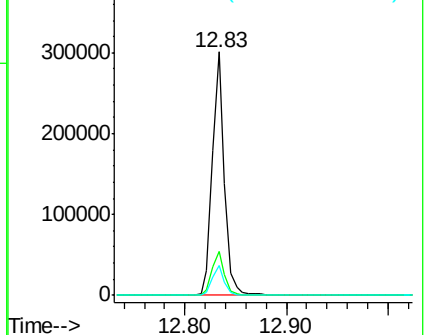
183 12.3 9.4 14.2



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 20.635 ng

RT: 12.94 min Scan# 1846

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

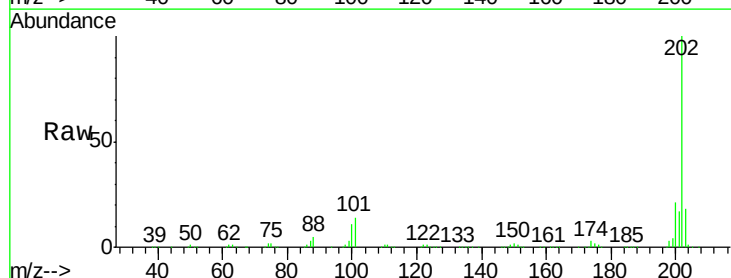
Tgt Ion:202 Resp: 810174

Ion Ratio Lower Upper

202 100

200 20.8 17.8 26.6

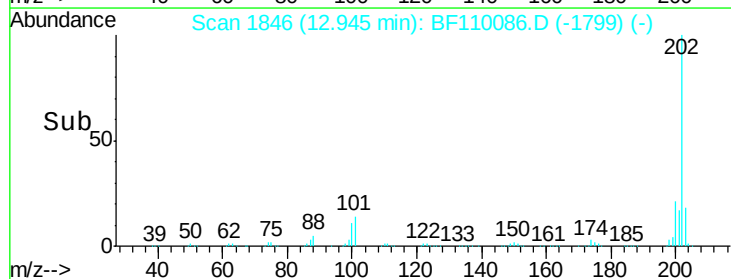
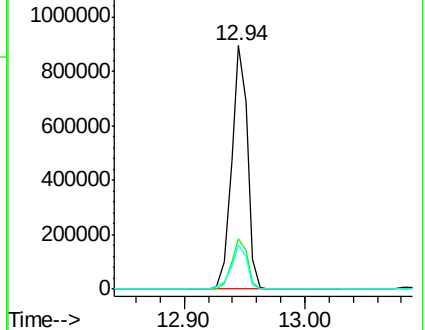
203 18.3 14.2 21.4

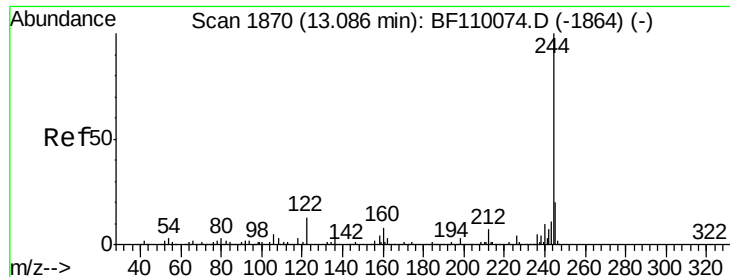


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 70.033 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

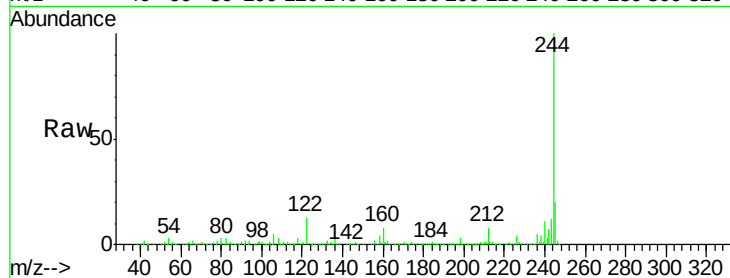
Tgt Ion:244 Resp: 1844207

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.8

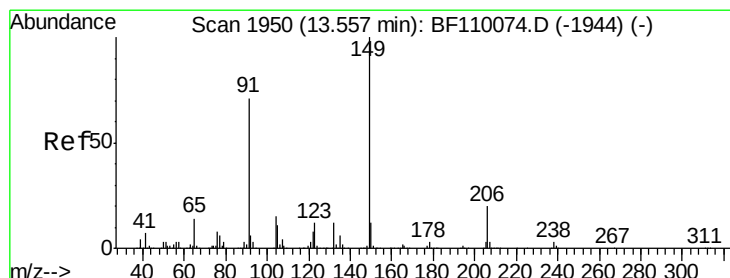
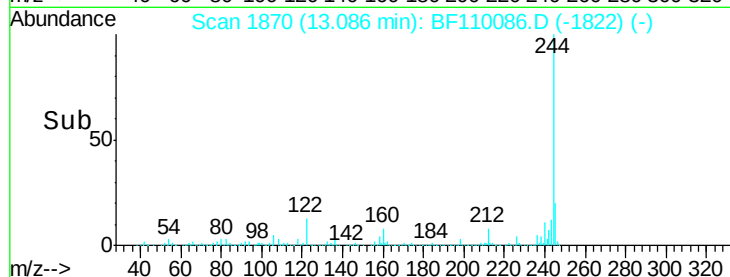
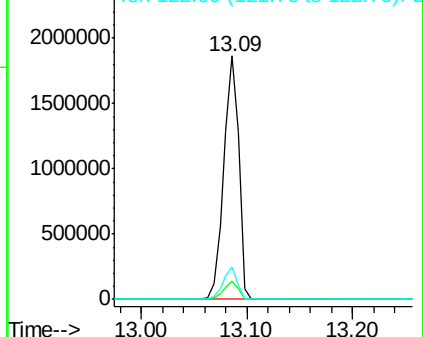
122 13.4 8.7 13.1#



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



#80

Butylbenzylphthalate

Concen: 20.986 ng

RT: 13.55 min Scan# 1949

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

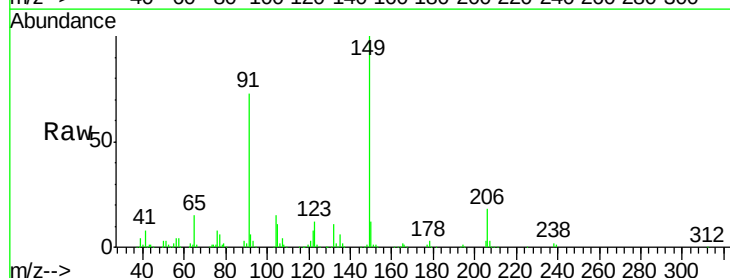
Tgt Ion:149 Resp: 357634

Ion Ratio Lower Upper

149 100

91 72.7 57.2 85.8

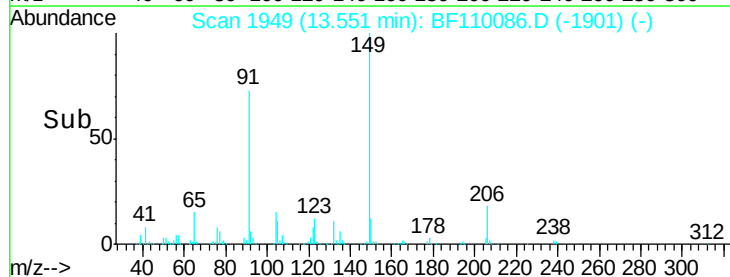
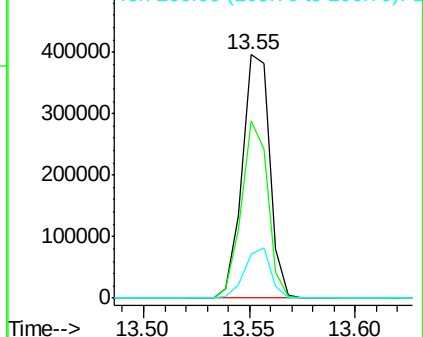
206 18.2 15.7 23.5

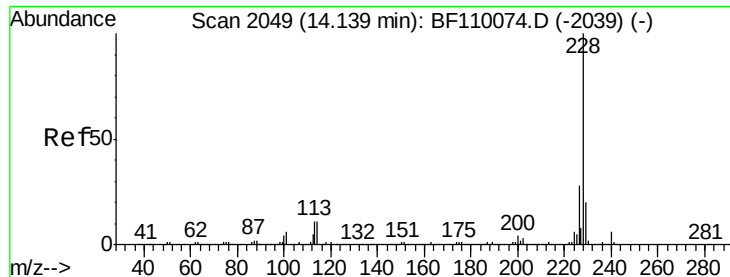


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 21.954 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

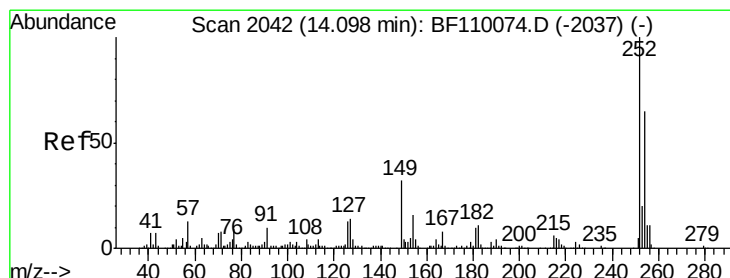
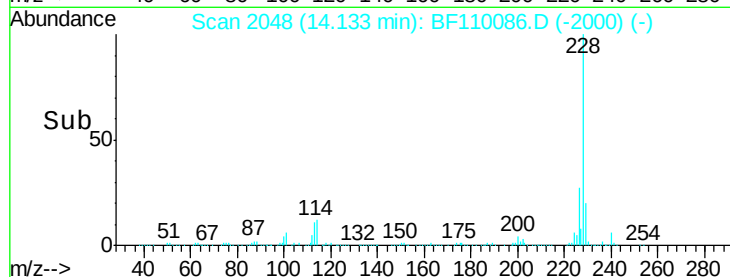
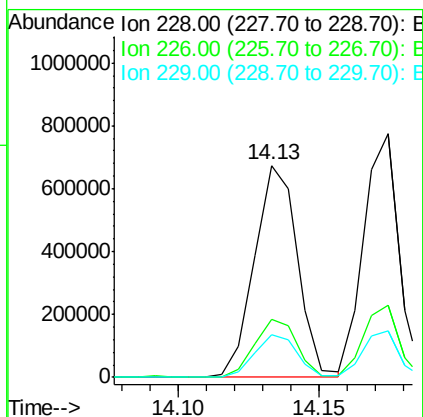
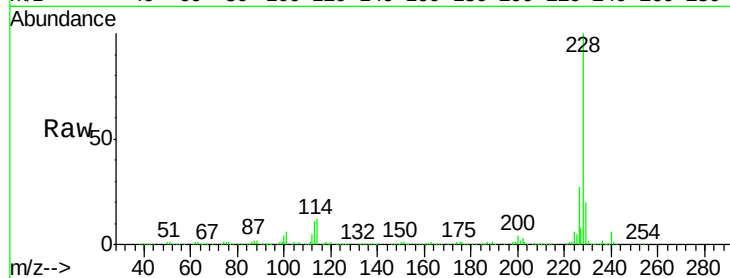
Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	228	Resp:	713007
Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.1	33.1
229	20.1	15.6	23.4



#82

3,3'-Dichlorobenzidine

Concen: 18.157 ng

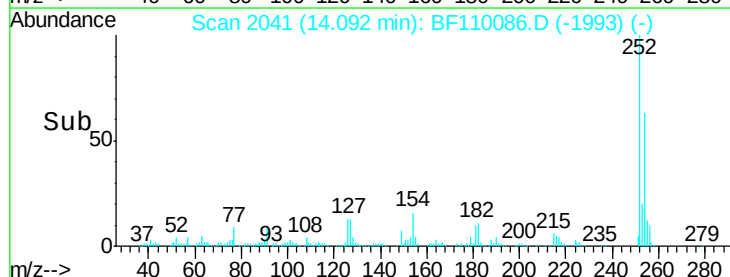
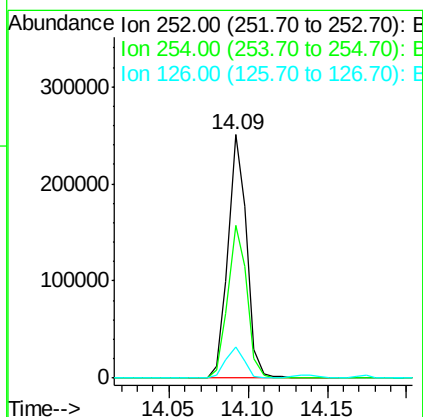
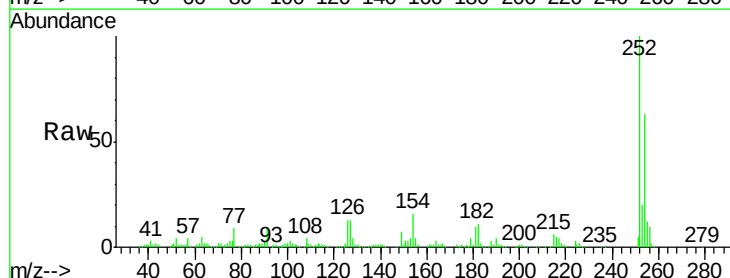
RT: 14.09 min Scan# 2041

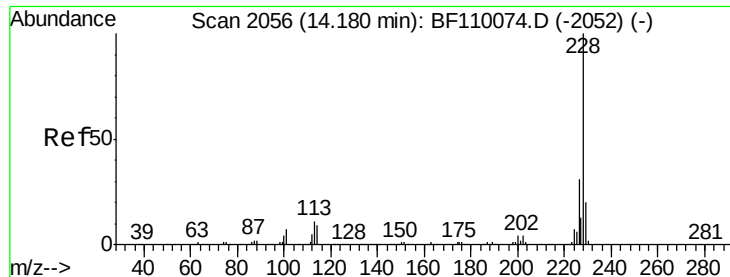
Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Tgt Ion:	252	Resp:	205343
Ion	Ratio	Lower	Upper
252	100		
254	62.7	51.3	76.9
126	12.8	9.4	14.2





#83

Chrysene

Concen: 21.625 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

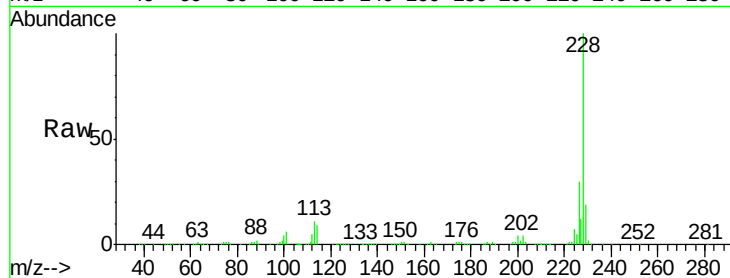
Tgt Ion:228 Resp: 667056

Ion Ratio Lower Upper

228 100

226 29.6 24.7 37.1

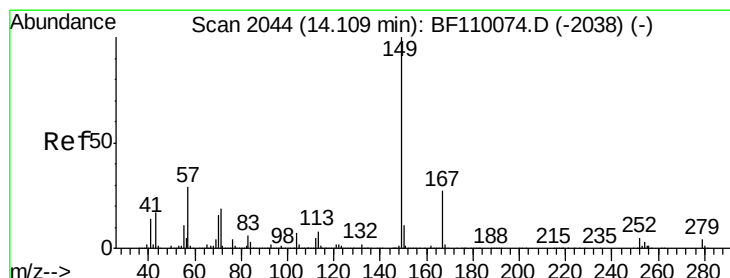
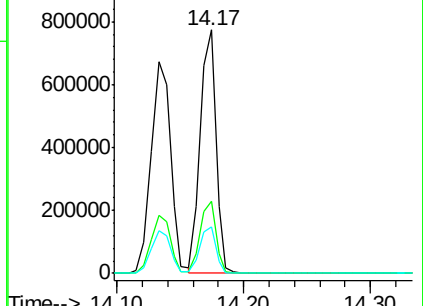
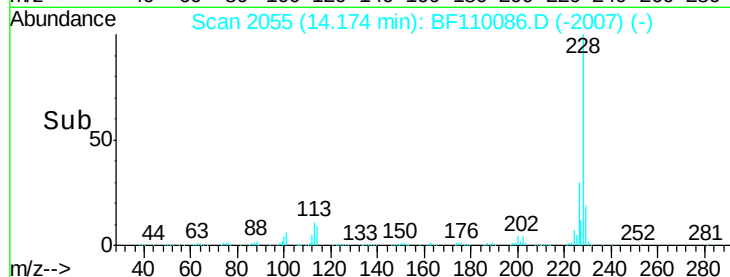
229 19.3 15.9 23.9



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 21.309 ng

RT: 14.10 min Scan# 2043

Delta R.T. -0.02 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

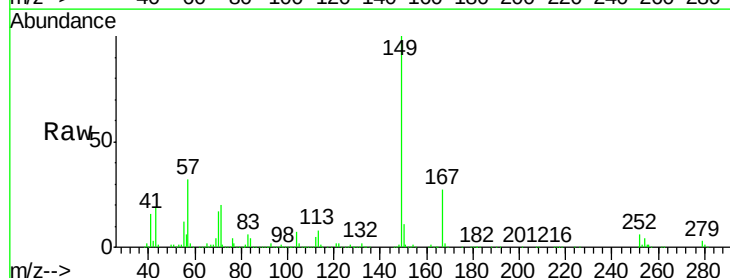
Tgt Ion:149 Resp: 490896

Ion Ratio Lower Upper

149 100

167 26.7 19.8 29.8

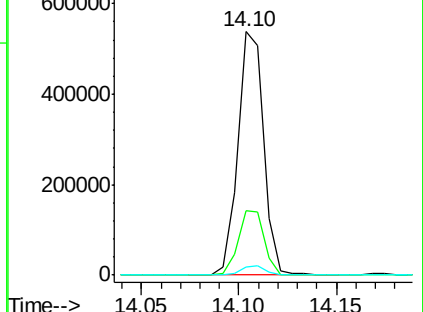
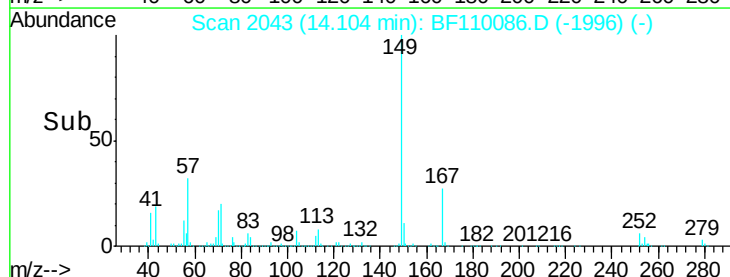
279 3.2 2.7 4.1

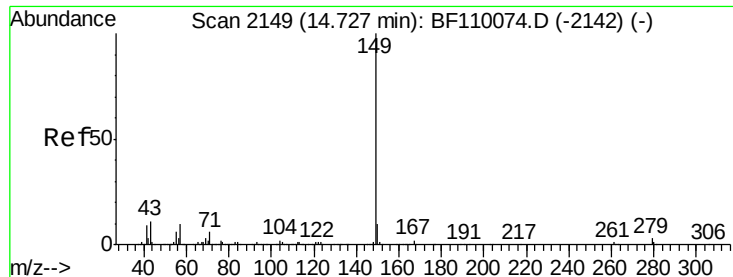


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

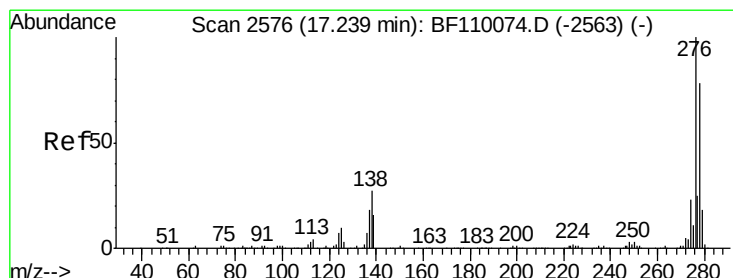
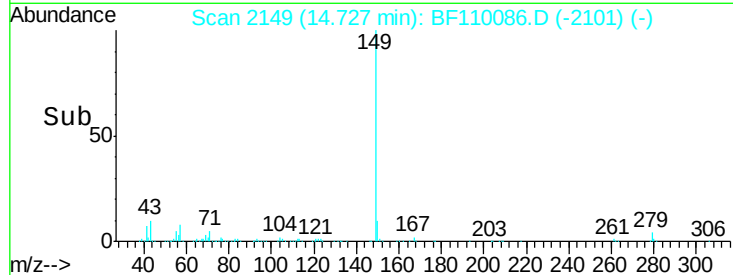
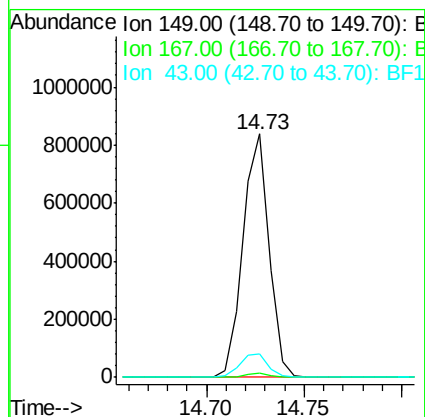
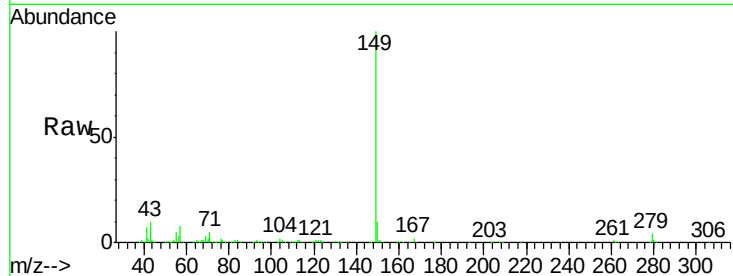




#85
Di-n-octyl phthalate
Concen: 21.677 ng
RT: 14.73 min Scan# 2149
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

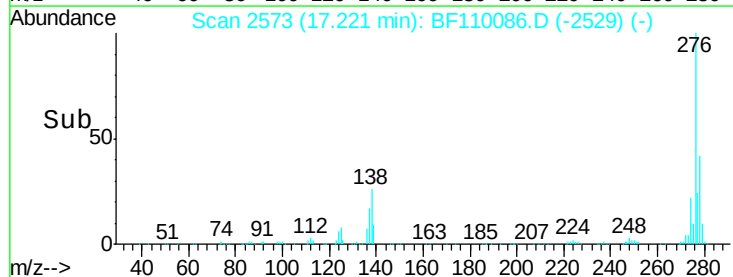
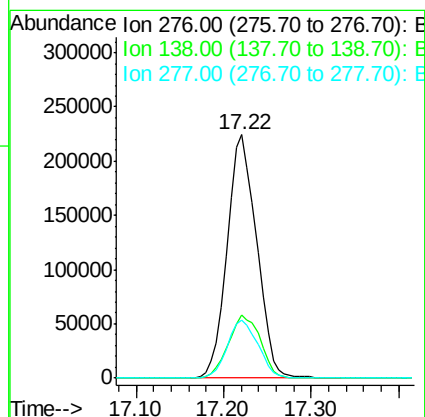
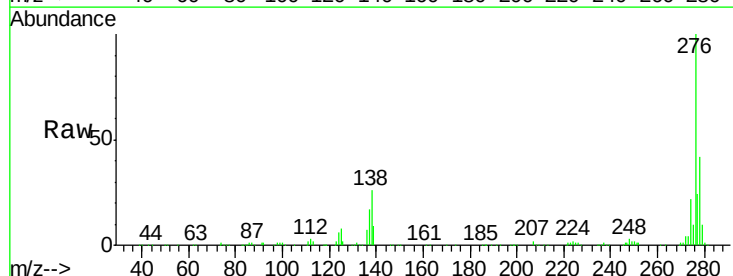
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

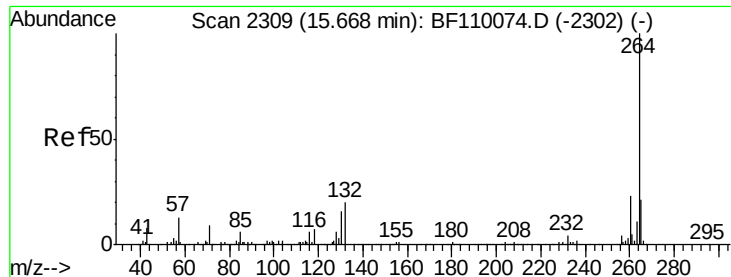
Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	10.5	7.8	11.8



#86
Indeno(1,2,3-cd)pyrene
Concen: 20.198 ng
RT: 17.22 min Scan# 2573
Delta R.T. -0.04 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.9	18.5	27.7#
277	24.8	20.0	30.0

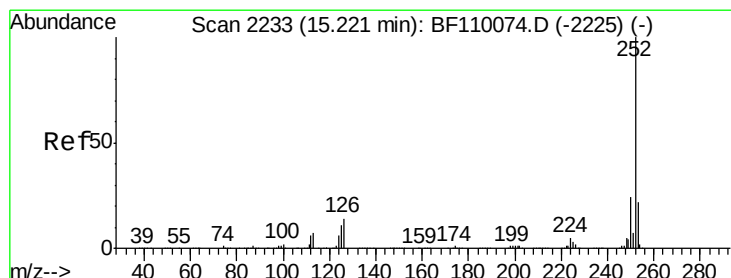
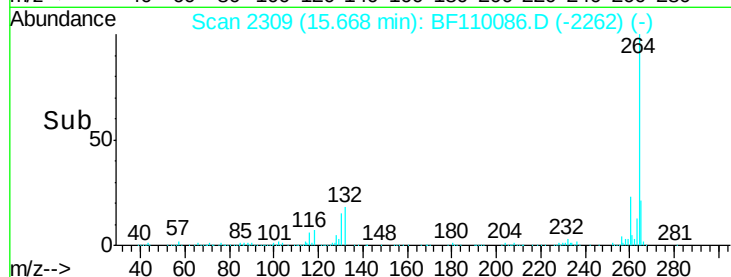
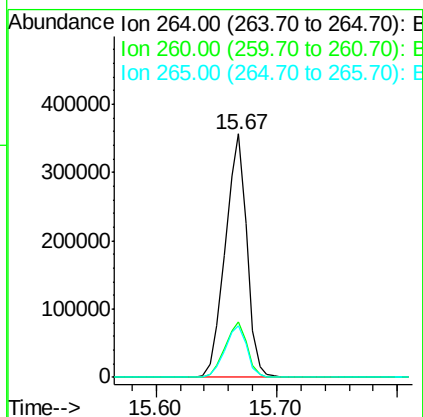
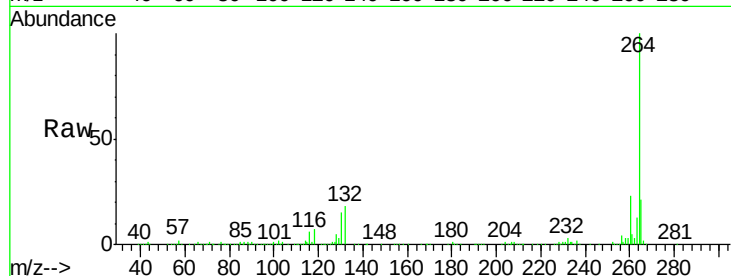




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.67 min Scan# 2309
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

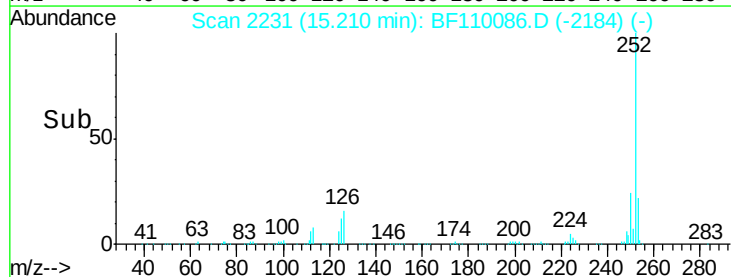
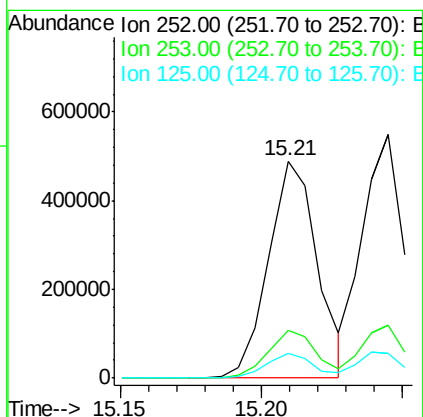
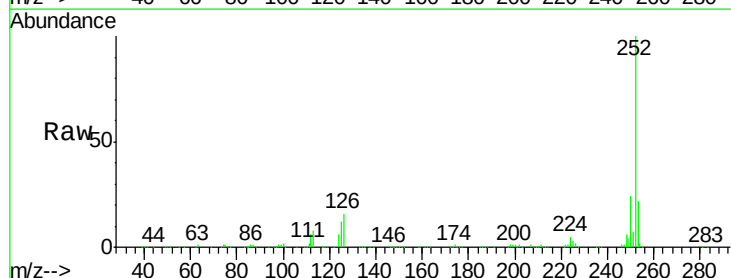
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

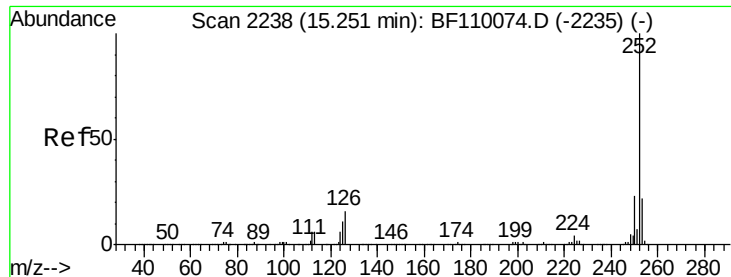
Tgt Ion:264 Resp: 440164
Ion Ratio Lower Upper
264 100
260 22.9 18.7 28.1
265 21.2 16.7 25.1



#88
Benzo(b)fluoranthene
Concen: 23.129 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:252 Resp: 587896
Ion Ratio Lower Upper
252 100
253 22.0 17.2 25.8
125 11.6 8.2 12.4

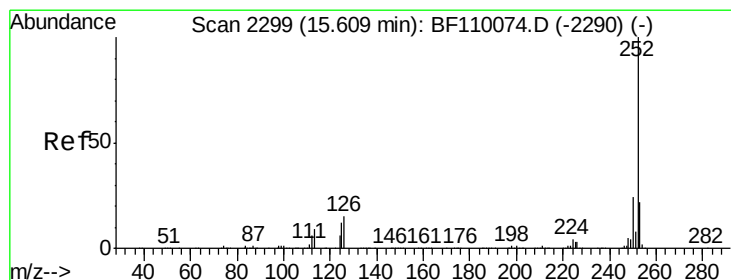
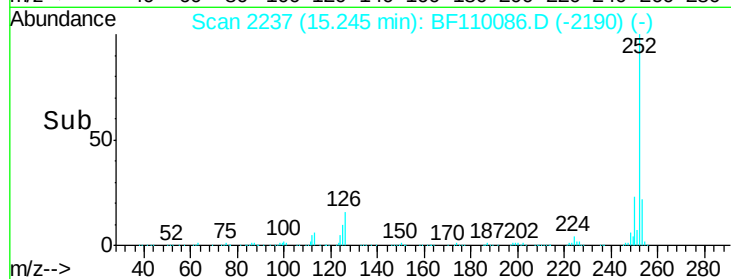
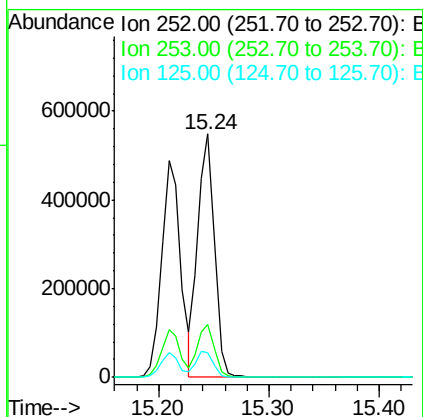
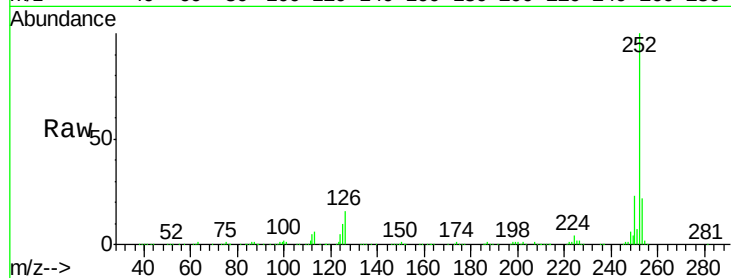




#89
Benzo(k)fluoranthene
Concen: 22.512 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.02 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

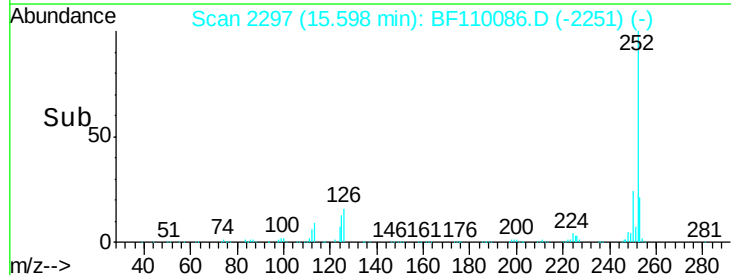
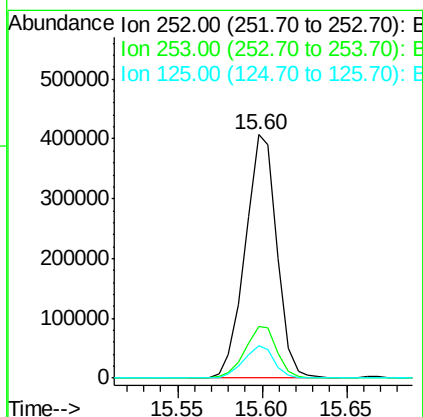
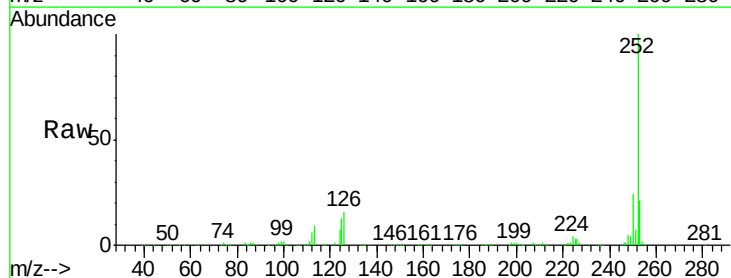
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

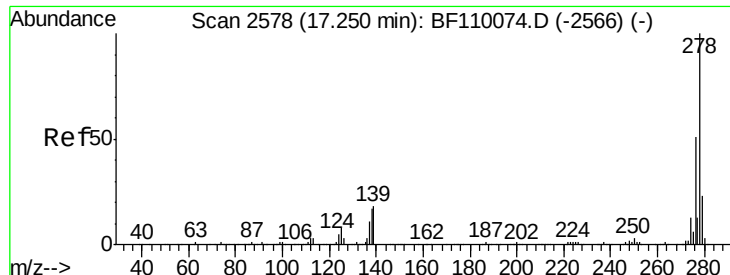
Tgt Ion:252 Resp: 562545
Ion Ratio Lower Upper
252 100
253 21.6 17.2 25.8
125 10.4 7.4 11.0



#90
Benzo(a)pyrene
Concen: 22.735 ng
RT: 15.60 min Scan# 2297
Delta R.T. -0.03 min
Lab File: BF110086.D
Acq: 23 Oct 2018 19:15

Tgt Ion:252 Resp: 531744
Ion Ratio Lower Upper
252 100
253 21.2 18.2 27.4
125 13.2 9.0 13.6





#91

Dibenzo(a,h)anthracene

Concen: 21.579 ng

RT: 17.24 min Scan# 2576

Delta R.T. -0.04 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

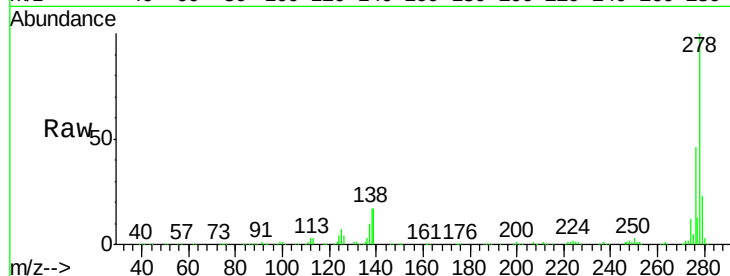
Tgt Ion:278 Resp: 435483

Ion Ratio Lower Upper

278 100

139 17.1 12.7 19.1

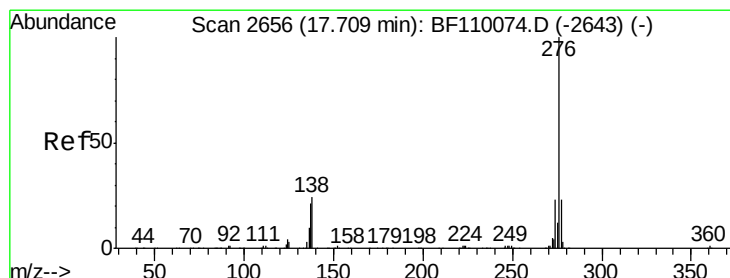
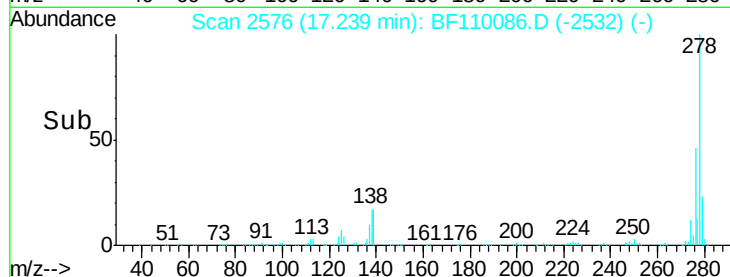
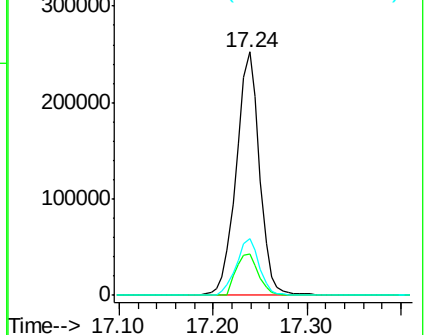
279 23.1 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 21.097 ng

RT: 17.69 min Scan# 2653

Delta R.T. -0.05 min

Lab File: BF110086.D

Acq: 23 Oct 2018 19:15

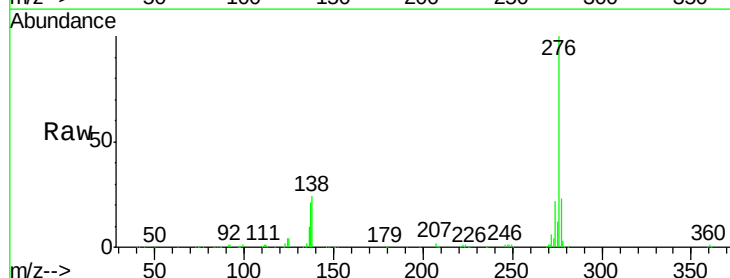
Tgt Ion:276 Resp: 419540

Ion Ratio Lower Upper

276 100

277 23.0 18.8 28.2

138 23.5 16.0 24.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

