

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061915\
 Data File : BF080076.D
 Acq On : 20 Jun 2015 2:38
 Operator : TP/IZ
 Sample : G2653-04
 Misc : LOQ-SVOC-SOIL-20PPM
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Quant Time: Jun 20 04:06:47 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF061715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 17 16:41:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.33	152	46303	20.00	ng	-0.01
21) Naphthalene-d8	8.62	136	188412	20.00	ng	-0.01
38) Acenaphthene-d10	10.39	164	103425	20.00	ng	-0.01
63) Phenanthrene-d10	11.90	188	213269	20.00	ng	-0.01
75) Chrysene-d12	14.76	240	245133	20.00	ng	-0.10
86) Perylene-d12	16.57	264	223759	20.00	ng	-0.17

System Monitoring Compounds

5) 2-Fluorophenol	5.94	112	331846	126.87	ng	0.00
7) Phenol-d6	6.93	99	401269	115.28	ng	-0.01
23) Nitrobenzene-d5	7.89	82	256398	79.22	ng	-0.01
41) 2,4,6-Tribromophenol	11.19	330	125779	124.37	ng	-0.01
44) 2-Fluorobiphenyl	9.69	172	508502	70.12	ng	-0.01
78) Terphenyl-d14	13.53	244	714210	68.05	ng	-0.06

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.24	88	14682	11.81	ng	87
3) Pyridine	4.07	79	43848	13.26	ng	# 81
4) n-Nitrosodimethylamine	3.96	42	21925	13.95	ng	99
6) Aniline	6.98	93	55557	11.60	ng	94
8) 2-Chlorophenol	7.11	128	47004	15.55	ng	85
9) Benzaldehyde	6.88	77	35499	17.67	ng	# 88
10) Phenol	6.95	94	56092	14.77	ng	89
11) bis(2-Chloroethyl)ether	7.04	93	42450	14.09	ng	91
12) 1,3-Dichlorobenzene	7.51	146	48692	13.41	ng	96
13) 1,4-Dichlorobenzene	7.51	146	48680	14.09	ng	97
14) 1,2-Dichlorobenzene	7.51	146	48680	14.48	ng	99
15) Benzyl Alcohol	7.45	79	41686	14.65	ng	# 75
16) 2,2'-oxybis(1-Chloropropan	7.59	45	75038	16.77	ng	89
17) 2-Methylphenol	7.56	107	39008	15.11	ng	# 81
18) Hexachloroethane	7.85	117	18659	16.22	ng	# 84
19) n-Nitroso-di-n-propylamine	7.72	70	32447	13.43	ng	# 81
20) 3+4-Methylphenols	7.70	107	50916	15.28	ng	84
22) Acetophenone	7.73	105	75710	17.24	ng	# 84
24) Nitrobenzene	7.91	77	48129	14.41	ng	# 82
25) Isophorone	8.14	82	96111	14.76	ng	# 85
26) 2-Nitrophenol	8.23	139	21616	15.46	ng	# 75
27) 2,4-Dimethylphenol	8.25	122	42507	14.58	ng	85
28) bis(2-Chloroethoxy)methane	8.34	93	63594	16.62	ng	# 91
29) 2,4-Dichlorophenol	8.47	162	39390	15.78	ng	97
30) 1,2,4-Trichlorobenzene	8.56	180	47975	16.92	ng	98
31) Naphthalene	8.64	128	150017	15.23	ng	99
32) Benzoic acid	8.29	122	11023	6.25	ng	# 55
33) 4-Chloroaniline	8.68	127	43685	10.36	ng	# 85
34) Hexachlorobutadiene	8.77	225	25881	14.82	ng	98
35) Caprolactam	9.01	113	11530	14.23	ng	98
36) 4-Chloro-3-methylphenol	9.14	107	43171	15.33	ng	# 77
37) 2-Methylnaphthalene	9.34	142	107648	16.89	ng	# 92
39) 1,2,4,5-Tetrachlorobenzene	9.51	216	49723	16.52	ng	96
40) Hexachlorocyclopentadiene	9.50	237	18767	17.42	ng	96

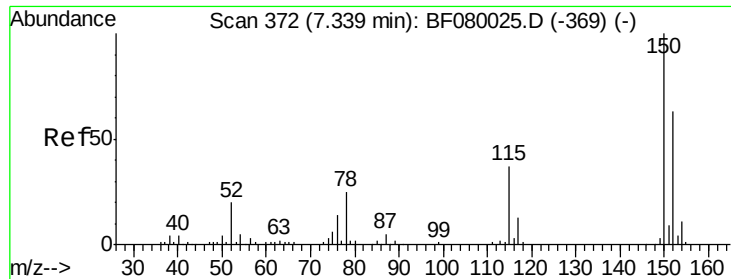
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061915\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.61	196	31682	15.47	ng	97
43) 2,4,5-Trichlorophenol	9.65	196	33627	14.25	ng #	94
45) 1,1'-Biphenyl	9.80	154	123859	14.72	ng	93
46) 2-Chloronaphthalene	9.83	162	100294	14.69	ng	95
47) 2-Nitroaniline	9.91	65	24504	13.07	ng #	60
48) Acenaphthylene	10.25	152	167387	14.69	ng	98
49) Dimethylphthalate	10.08	163	115968	14.91	ng #	97
50) 2,6-Dinitrotoluene	10.15	165	24348	15.62	ng #	68
51) Acenaphthene	10.42	154	97145	13.93	ng	90
52) 3-Nitroaniline	10.32	138	23805	13.24	ng #	59
53) 2,4-Dinitrophenol	10.44	184	6479	15.30	ng #	1
54) Dibenzofuran	10.60	168	154998	15.67	ng #	90
55) 4-Nitrophenol	10.47	139	18052	12.56	ng #	68
56) 2,4-Dinitrotoluene	10.56	165	28821	14.57	ng #	94
57) Fluorene	10.95	166	116699	14.87	ng	92
58) 2,3,4,6-Tetrachlorophenol	10.71	232	30247	15.19	ng	96
59) Diethylphthalate	10.79	149	128509	16.41	ng	99
60) 4-Chlorophenyl-phenylether	10.93	204	58889	15.61	ng #	88
61) 4-Nitroaniline	10.94	138	25462	13.71	ng #	61
62) Azobenzene	11.09	77	122872	15.42	ng	87
64) 4,6-Dinitro-2-methylphenol	10.97	198	11965	16.38	ng	83
65) n-Nitrosodiphenylamine	11.04	169	107720	15.51	ng	92
66) 4-Bromophenyl-phenylether	11.43	248	32600	14.38	ng #	81
67) Hexachlorobenzene	11.51	284	34992	13.88	ng #	76
68) Atrazine	11.56	200	32904	15.00	ng	84
69) Pentachlorophenol	11.69	266	16671	11.67	ng	95
70) Phenanthrene	11.92	178	185448	14.36	ng	97
71) Anthracene	11.97	178	186874	15.03	ng	99
72) Carbazole	12.12	167	171510	14.45	ng	96
73) Di-n-butylphthalate	12.44	149	188758	13.76	ng #	98
74) Fluoranthene	13.15	202	191594	13.93	ng	95
76) Benzidine	13.26	184	52970	7.73	ng	99
77) Pyrene	13.40	202	211058	13.98	ng	97
79) Butylbenzylphthalate	14.06	149	79216	13.07	ng	96
80) Benzo(a)anthracene	14.75	228	211783	14.18	ng	97
81) 3,3'-Dichlorobenzidine	14.69	252	51582	10.01	ng #	93
82) Chrysene	14.79	228	191580	13.91	ng	95
83) Bis(2-ethylhexyl)phthalate	14.71	149	130833	13.66	ng #	91
84) Di-n-octyl phthalate	15.48	149	191151	11.65	ng	96
85) Indeno(1,2,3-cd)pyrene	18.41	276	201480	11.60	ng #	88
87) Benzo(b)fluoranthene	16.04	252	194660	14.37	ng #	88
88) Benzo(k)fluoranthene	16.07	252	191362	13.87	ng #	91
89) Benzo(a)pyrene	16.49	252	185162	14.39	ng #	88
90) Dibenzo(a,h)anthracene	18.44	278	173718	13.19	ng #	80
91) Benzo(g,h,i)perylene	18.96	276	170694	12.84	ng #	77

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.33 min Scan# 371

Delta R.T. -0.01 min

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BNA_F

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LOQ-SOIL2015-02

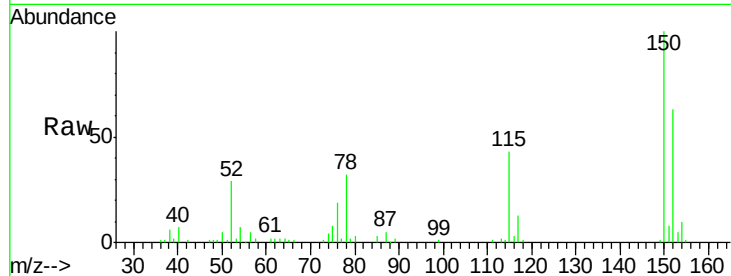
Tgt Ion:152 Resp: 46303

Ion Ratio Lower Upper

152 100

150 158.6 124.7 187.1

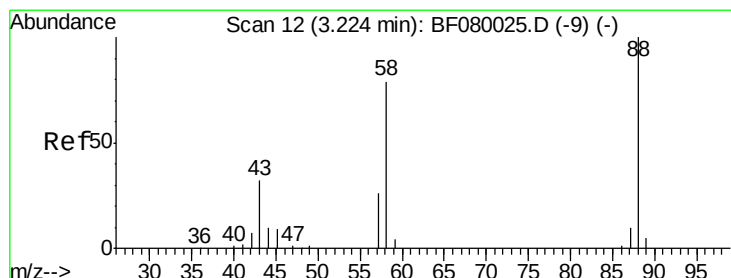
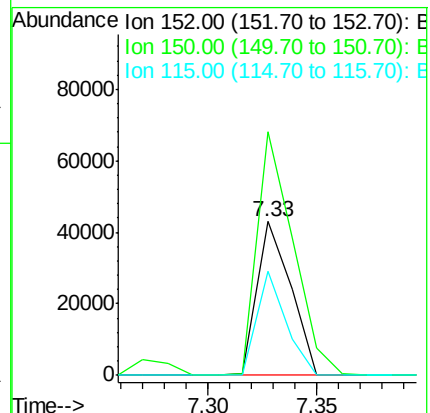
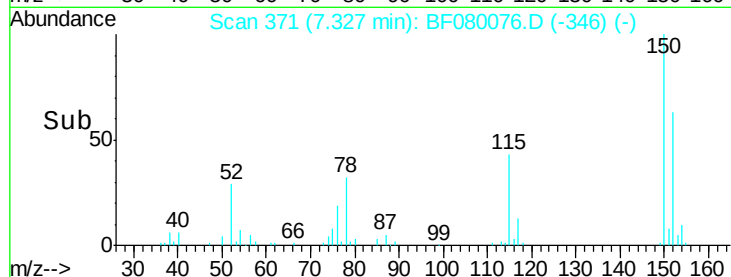
115 68.2 39.0 58.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 11.81 ng

RT: 3.24 min Scan# 13

Delta R.T. 0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

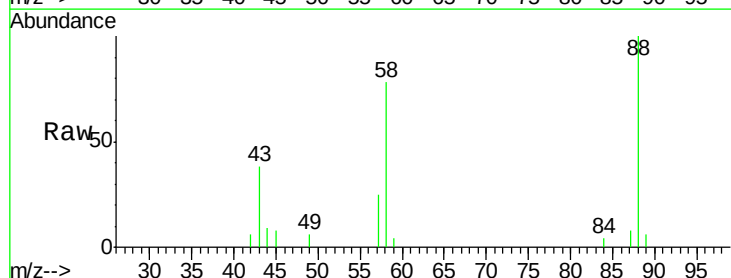
Tgt Ion: 88 Resp: 14682

Ion Ratio Lower Upper

88 100

58 82.8 77.7 116.5

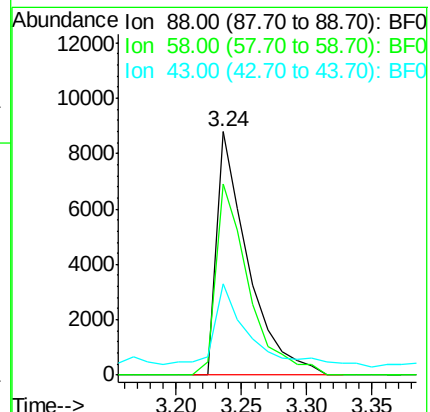
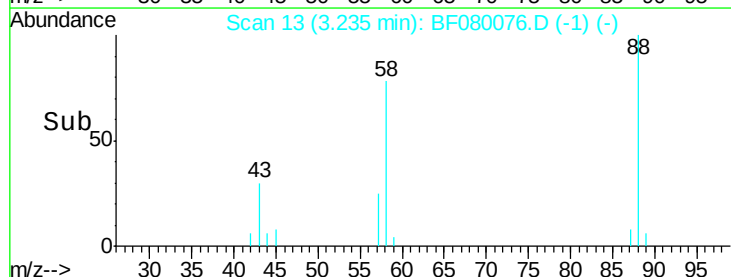
43 38.8 26.6 40.0

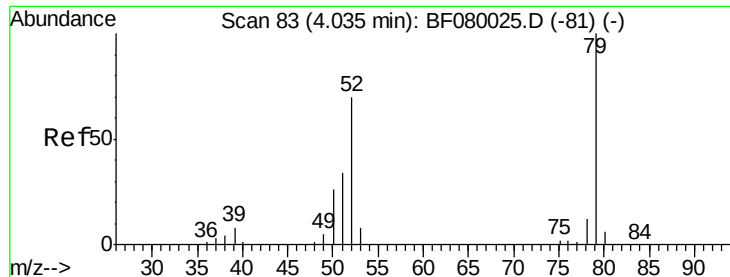


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 13.26 ng

RT: 4.07 min Scan# 86

Delta R.T. 0.05 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

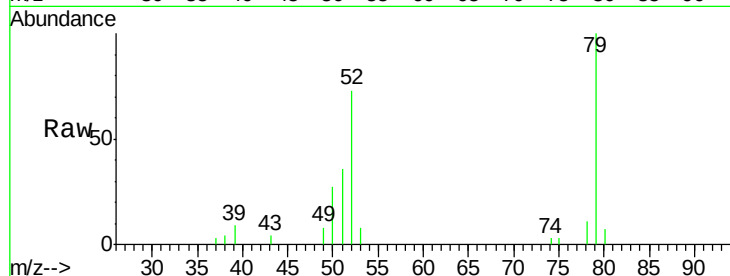
Tgt Ion: 79 Resp: 43848

Ion Ratio Lower Upper

79 100

52 73.0 76.8 115.2#

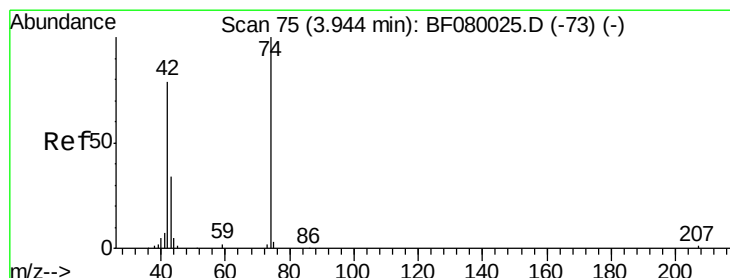
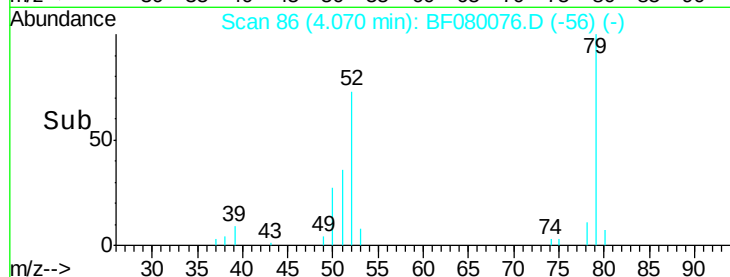
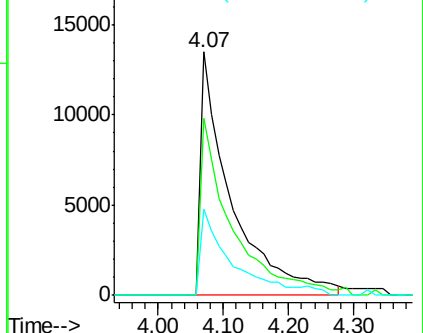
51 35.6 32.2 48.4



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 13.95 ng

RT: 3.96 min Scan# 76

Delta R.T. 0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

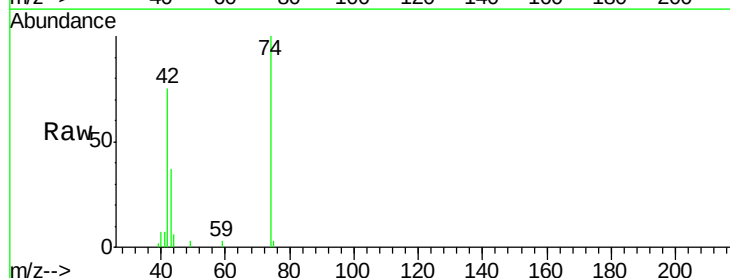
Tgt Ion: 42 Resp: 21925

Ion Ratio Lower Upper

42 100

74 132.9 105.0 157.6

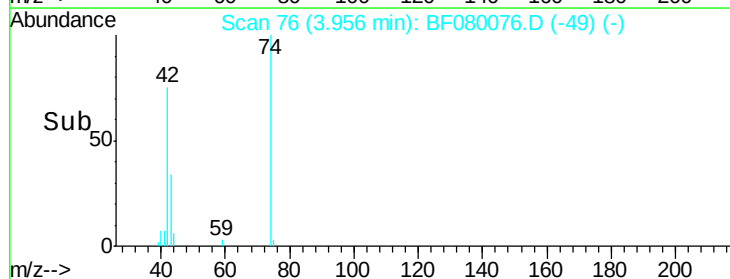
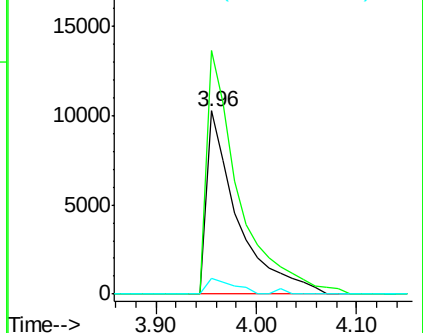
44 8.4 6.6 10.0

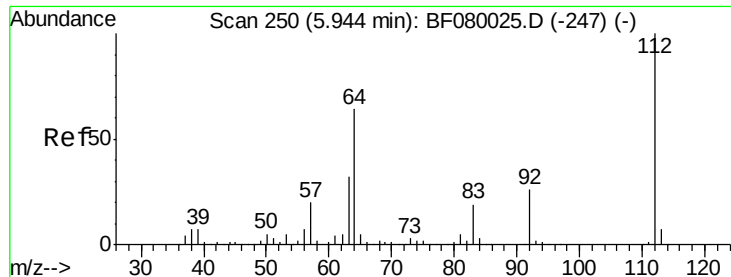


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 126.87 ng

RT: 5.94 min Scan# 250

Delta R.T. 0.00 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

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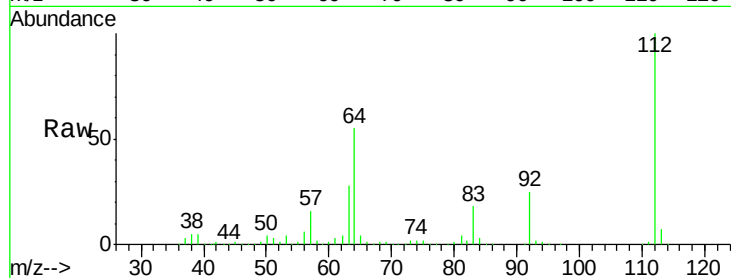
Tgt Ion: 112 Resp: 331846

Ion Ratio Lower Upper

112 100

64 54.5 39.7 59.5

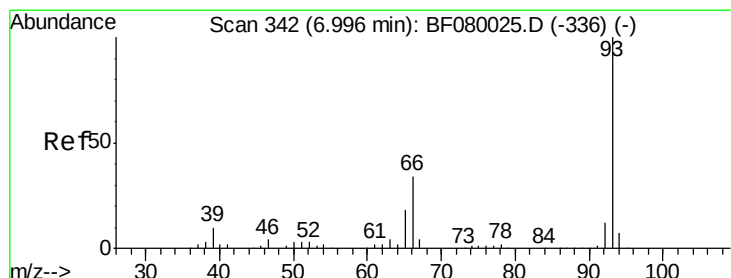
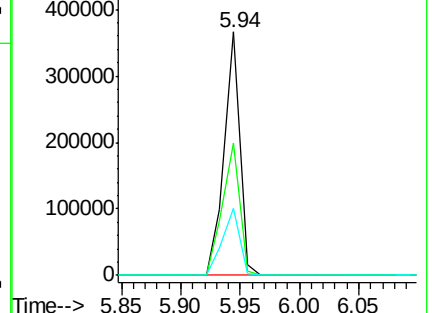
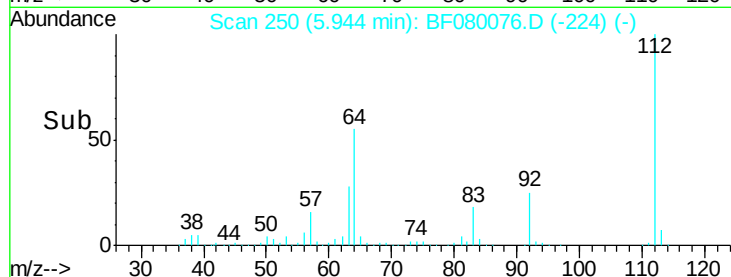
63 27.7 17.4 26.0#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 11.60 ng

RT: 6.98 min Scan# 341

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

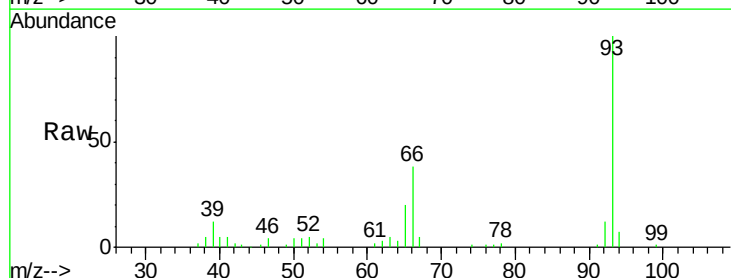
Tgt Ion: 93 Resp: 55557

Ion Ratio Lower Upper

93 100

66 38.3 27.2 40.8

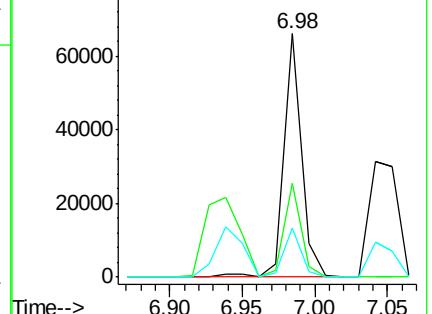
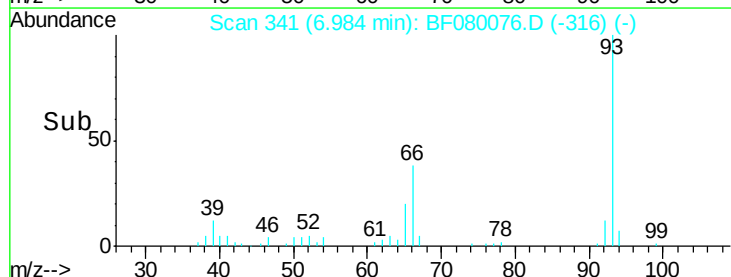
65 20.0 14.7 22.1

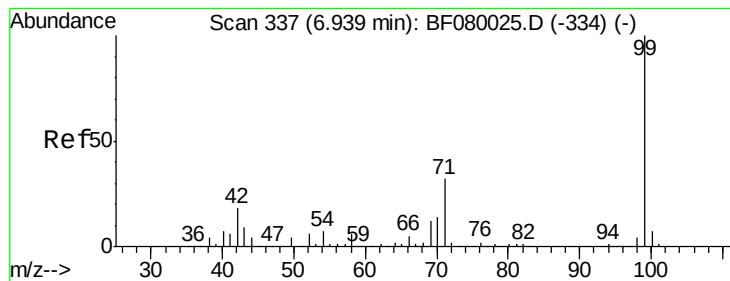


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 115.28 ng

RT: 6.93 min Scan# 336

Delta R.T. -0.01 min

Lab File: BF080076.D

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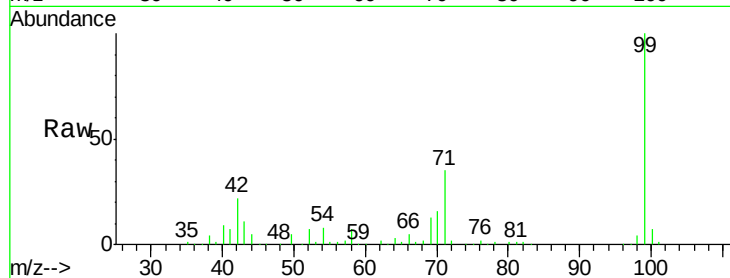
Tgt Ion: 99 Resp: 401269

Ion Ratio Lower Upper

99 100

42 21.6 13.7 20.5#

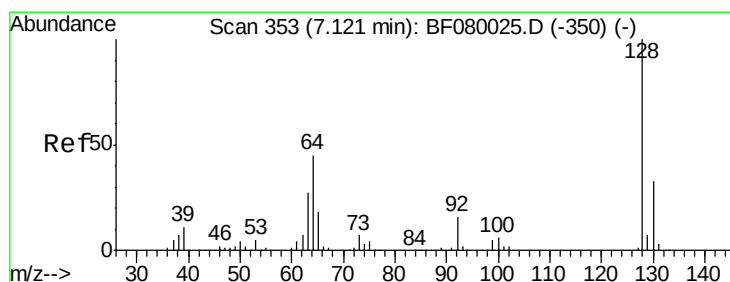
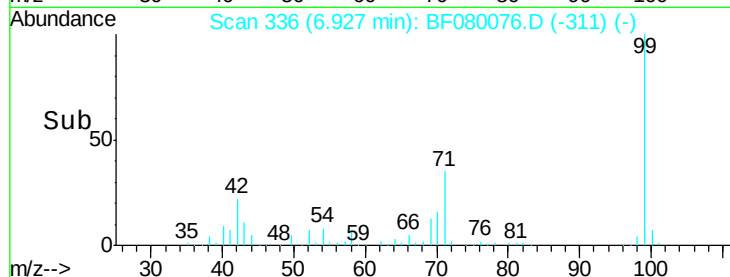
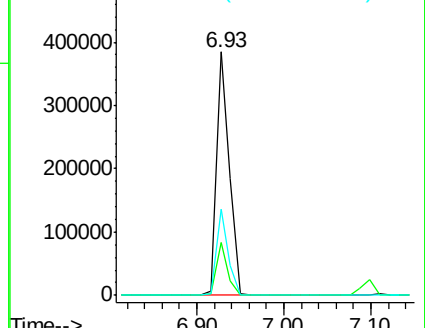
71 35.2 14.2 21.2#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 15.55 ng

RT: 7.11 min Scan# 352

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

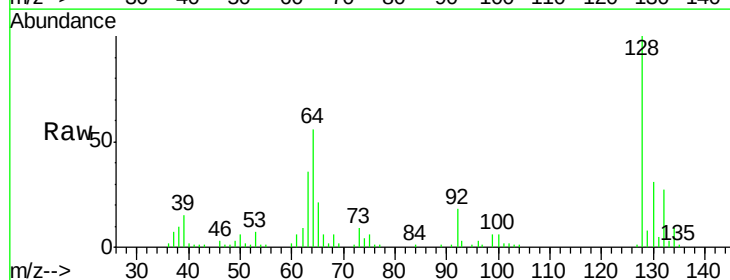
Tgt Ion: 128 Resp: 47004

Ion Ratio Lower Upper

128 100

130 31.2 12.2 52.2

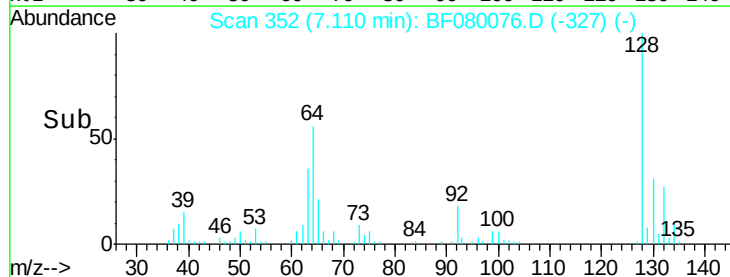
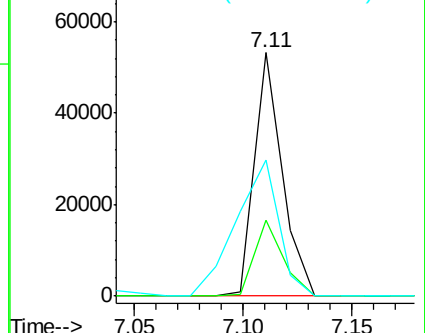
64 56.1 20.5 60.5

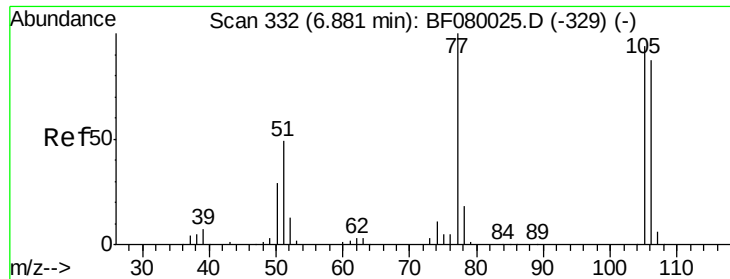


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 17.67 ng

RT: 6.88 min Scan# 332

Delta R.T. 0.00 min

Lab File: BF080076.D

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LOQ-SOIL2015-02

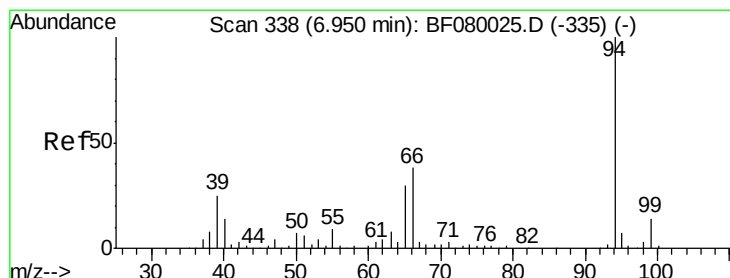
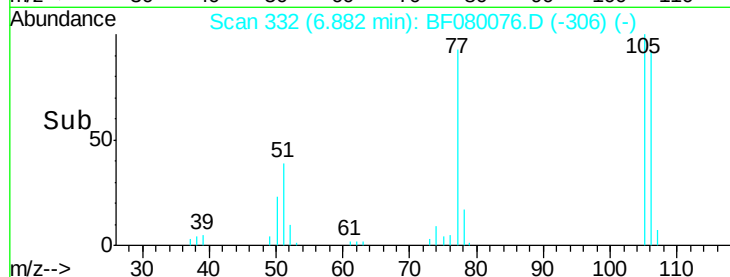
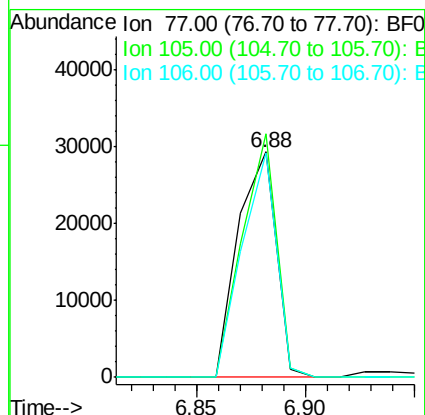
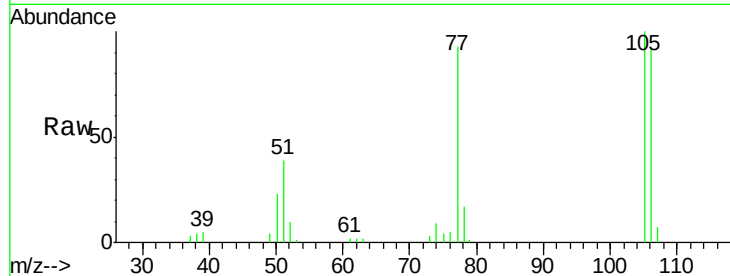
Tgt Ion: 77 Resp: 35499

Ion Ratio Lower Upper

77 100

105 107.9 91.6 131.6

106 99.4 102.6 142.6#



#10

Phenol

Concen: 14.77 ng

RT: 6.95 min Scan# 338

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

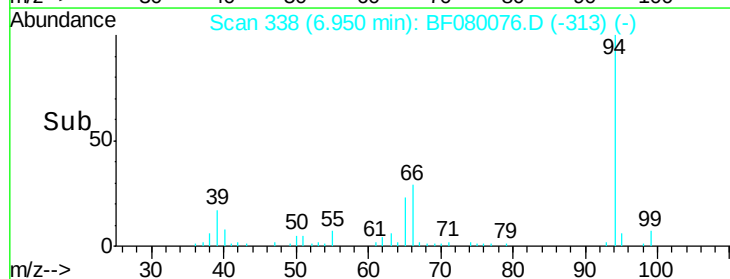
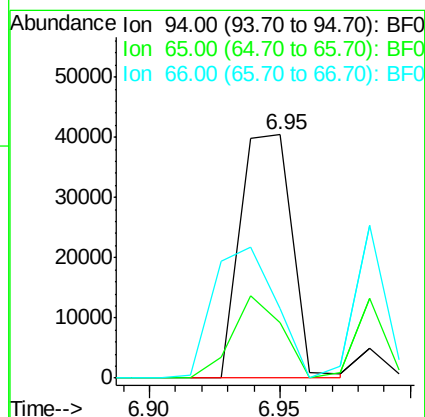
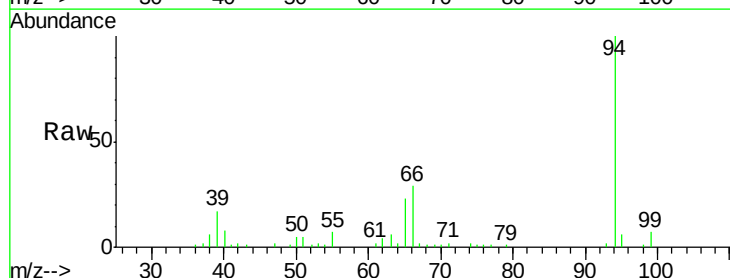
Tgt Ion: 94 Resp: 56092

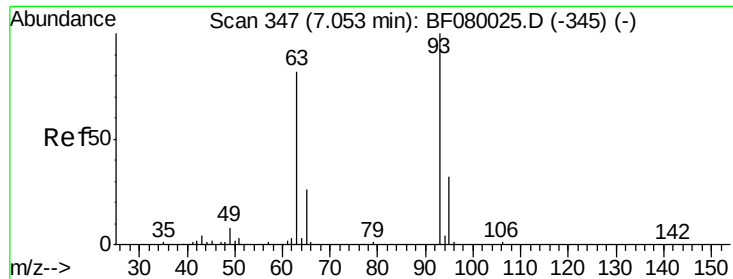
Ion Ratio Lower Upper

94 100

65 22.7 0.7 40.7

66 28.7 0.8 40.8

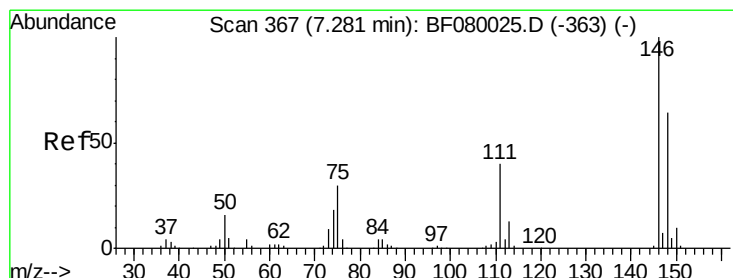
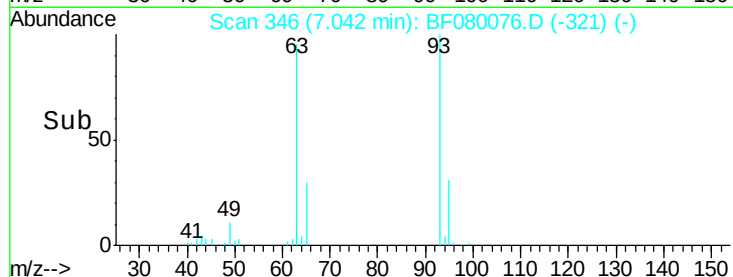
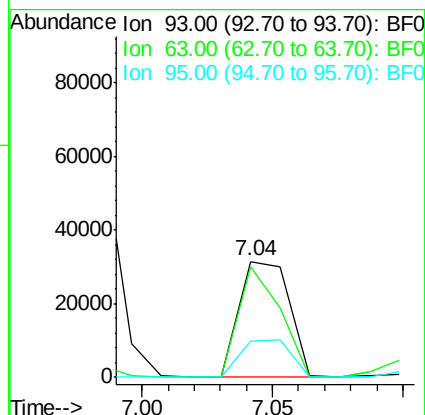
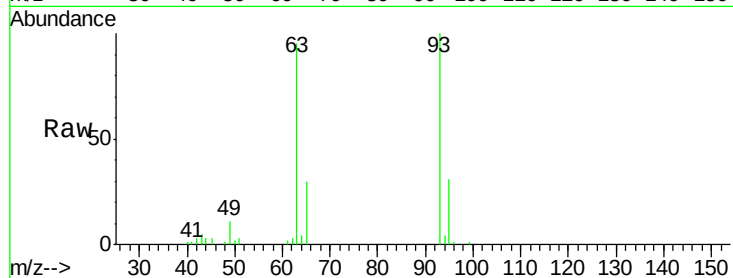




#11
bis(2-Chloroethyl)ether
Concen: 14.09 ng
RT: 7.04 min Scan# 346
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

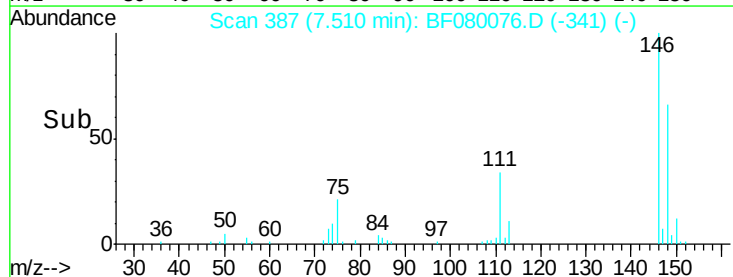
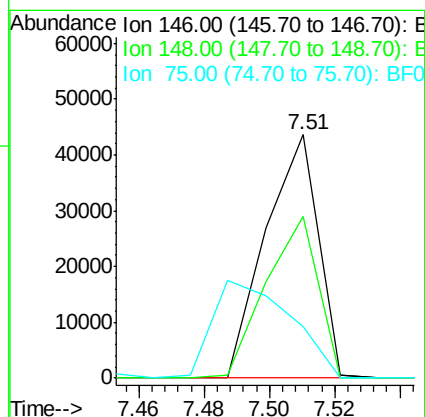
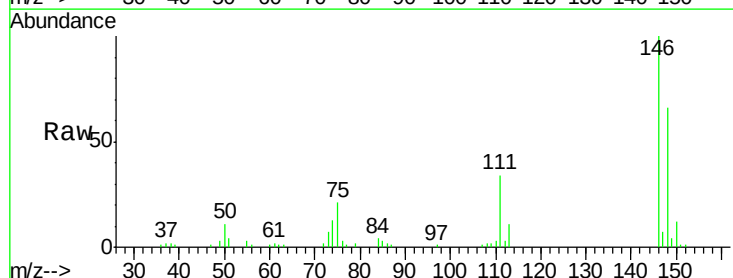
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2015-02

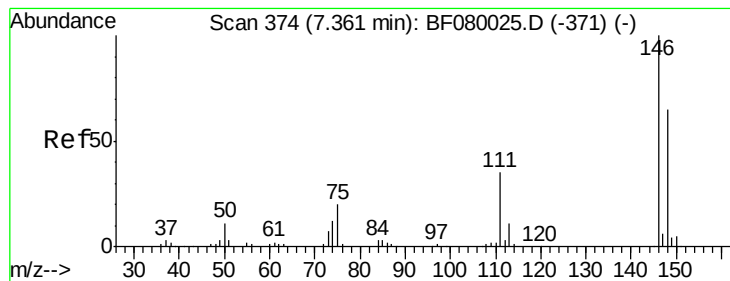
Tgt Ion: 93 Resp: 42450
Ion Ratio Lower Upper
93 100
63 95.1 65.6 105.6
95 31.1 13.6 53.6



#12
1,3-Dichlorobenzene
Concen: 13.41 ng
RT: 7.51 min Scan# 387
Delta R.T. 0.23 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Tgt Ion: 146 Resp: 48692
Ion Ratio Lower Upper
146 100
148 66.2 51.0 76.4
75 21.0 15.0 22.6





#13

1,4-Dichlorobenzene

Concen: 14.09 ng

RT: 7.51 min Scan# 387

Delta R.T. 0.15 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

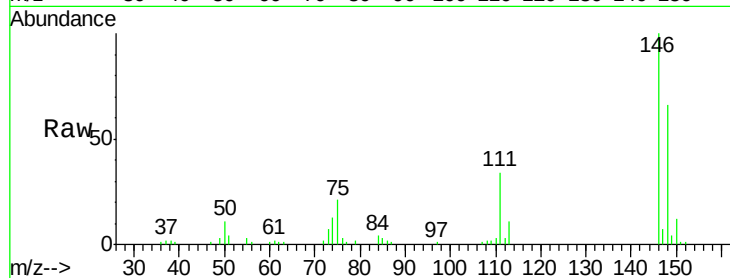
Tgt Ion:146 Resp: 48680

Ion Ratio Lower Upper

146 100

148 66.2 51.8 77.6

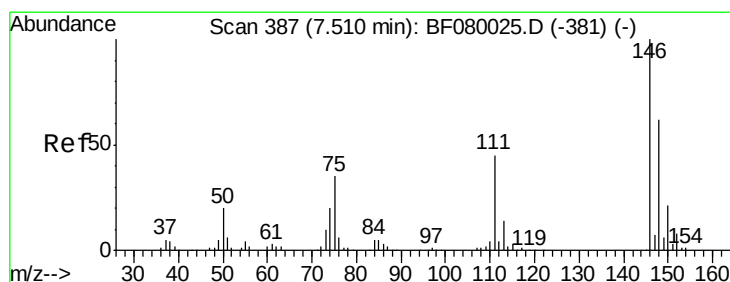
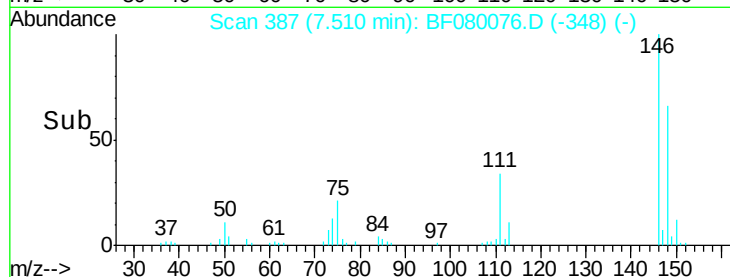
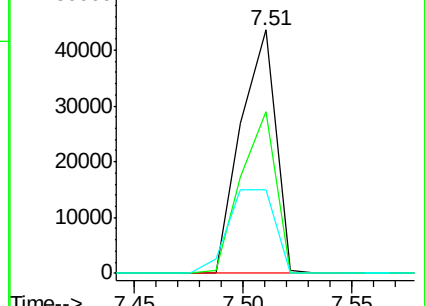
111 34.4 24.9 37.3



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 14.48 ng

RT: 7.51 min Scan# 387

Delta R.T. 0.00 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

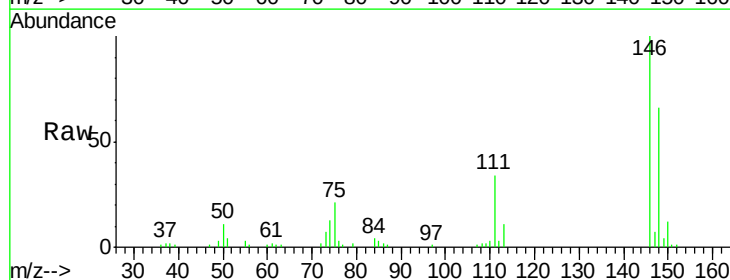
Tgt Ion:146 Resp: 48680

Ion Ratio Lower Upper

146 100

148 66.2 52.7 79.1

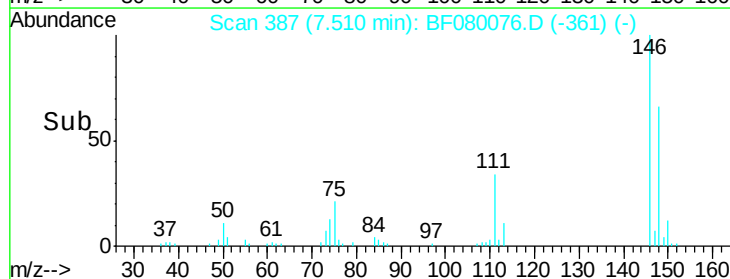
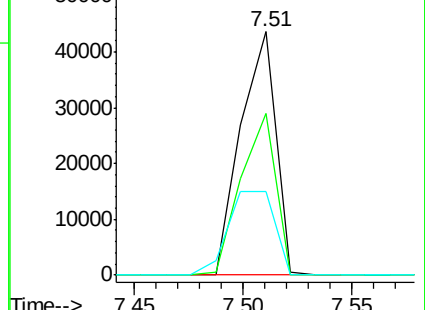
111 34.4 28.8 43.2

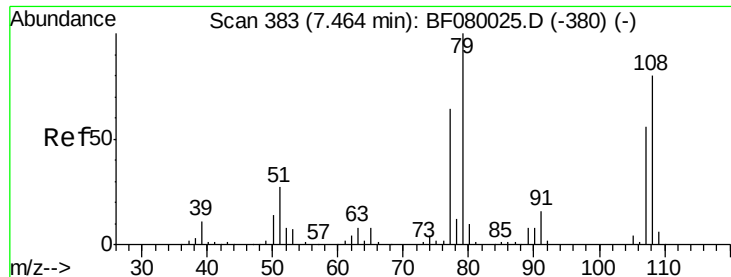


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 14.65 ng

RT: 7.45 min Scan# 382

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

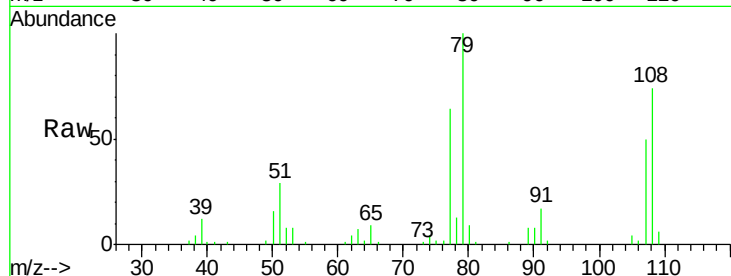
Tgt Ion: 79 Resp: 41686

Ion Ratio Lower Upper

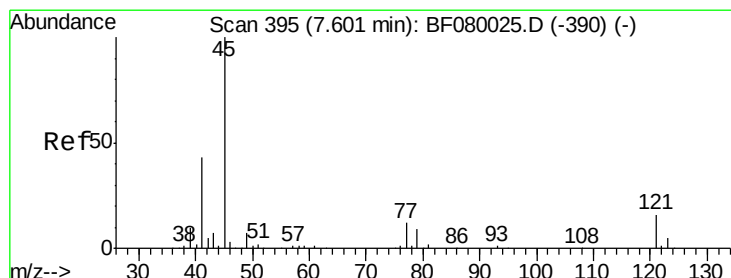
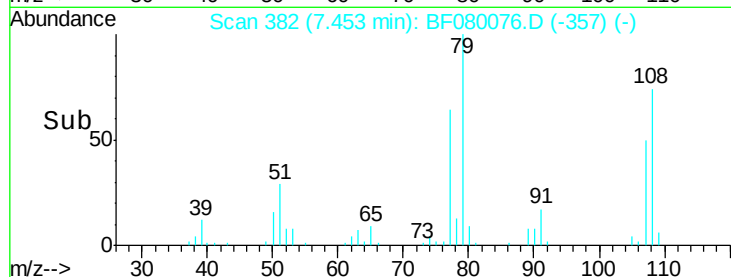
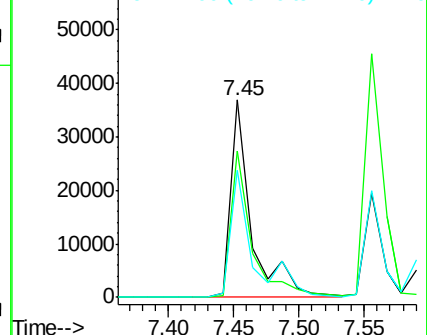
79 100

108 74.2 88.6 132.8#

77 64.2 47.0 70.4



Abundance Ion 79.00 (78.70 to 79.70): BF0
Ion 108.00 (107.70 to 108.70): BF0
Ion 77.00 (76.70 to 77.70): BF0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 16.77 ng

RT: 7.59 min Scan# 394

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

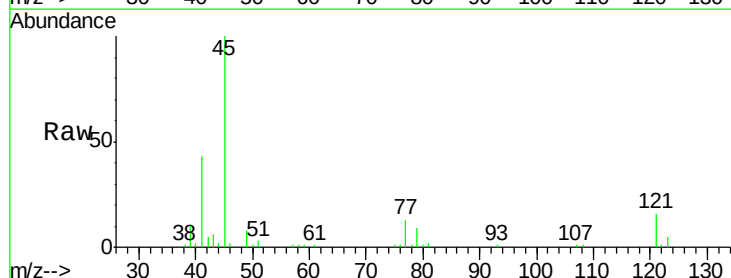
Tgt Ion: 45 Resp: 75038

Ion Ratio Lower Upper

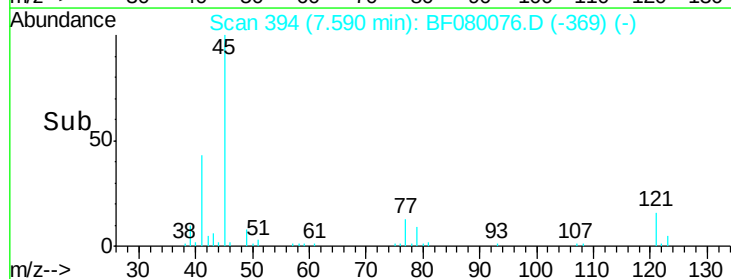
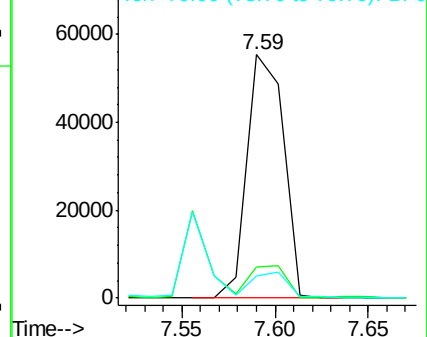
45 100

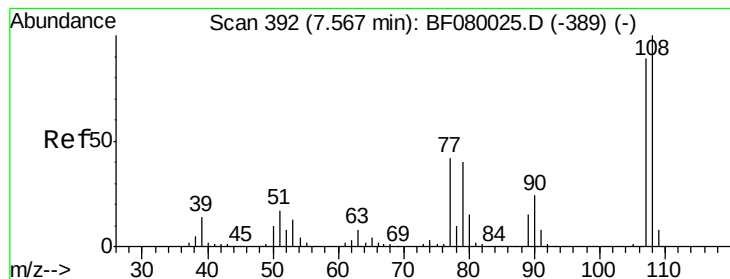
77 12.5 0.0 28.1

79 9.3 0.0 26.0



Abundance Ion 45.00 (44.70 to 45.70): BF0
Ion 77.00 (76.70 to 77.70): BF0
Ion 79.00 (78.70 to 79.70): BF0

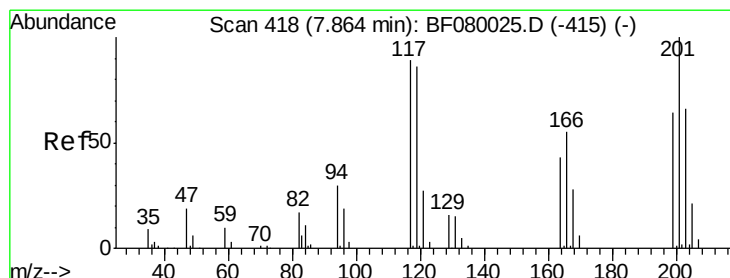
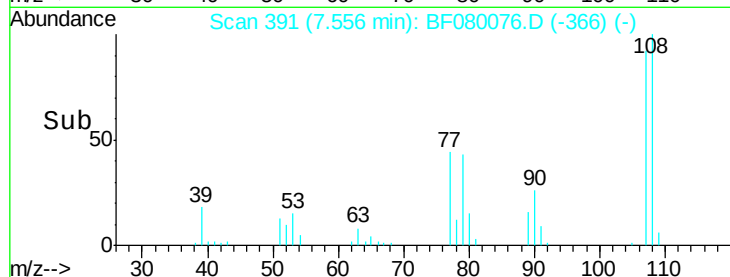
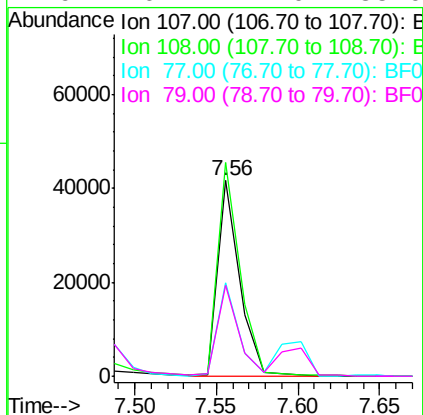
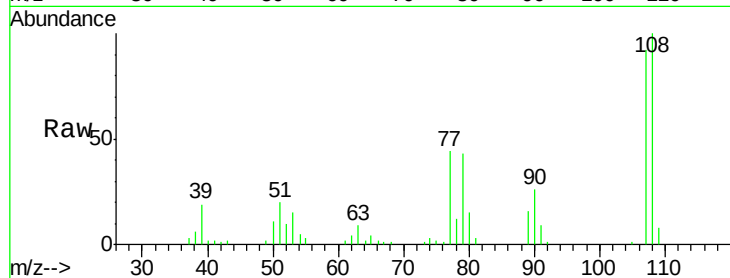




#17
2-Methylphenol
Concen: 15.11 ng
RT: 7.56 min Scan# 391
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

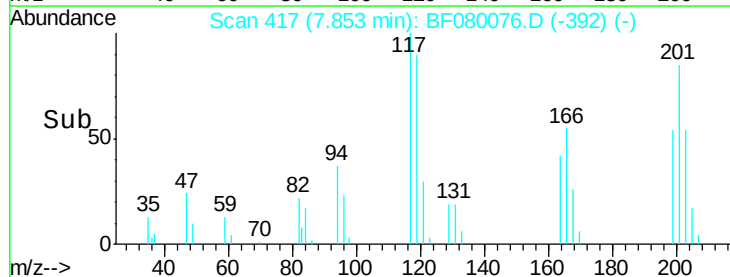
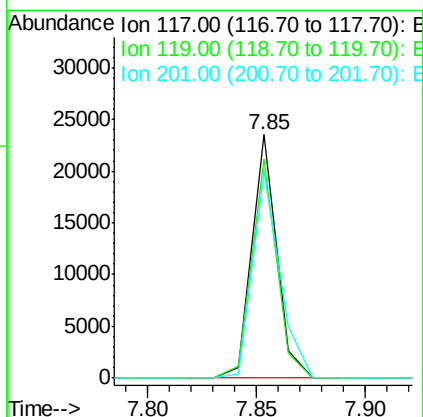
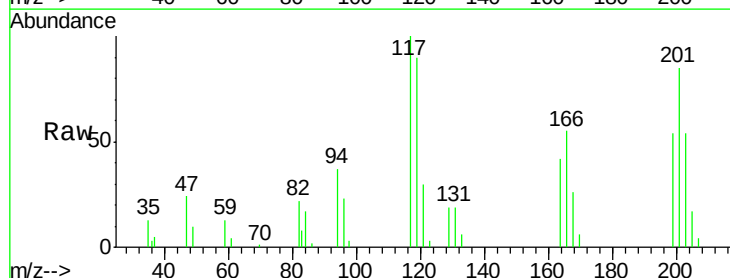
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2015-02

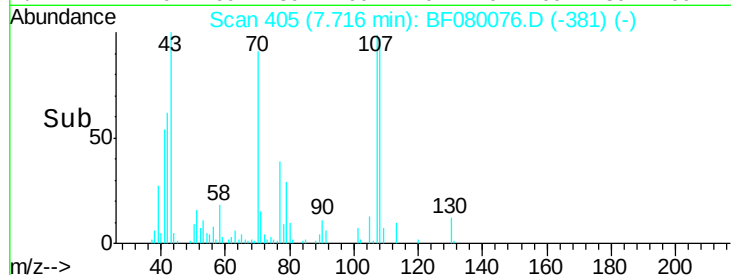
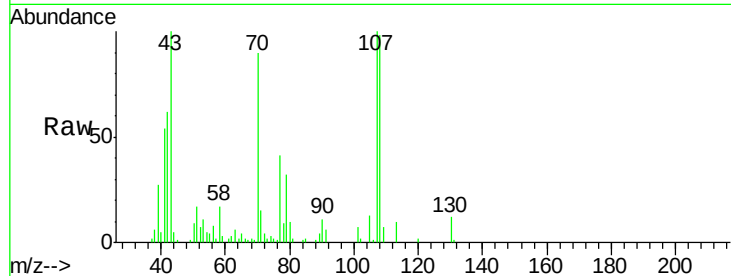
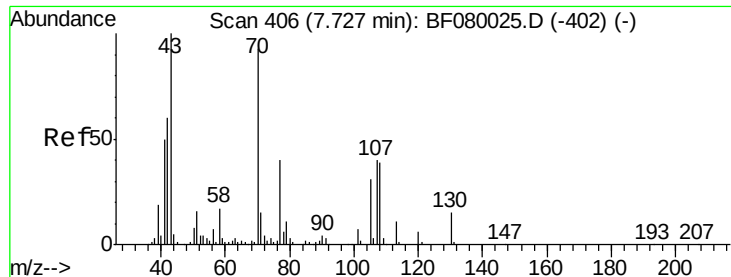
Tgt Ion:107 Resp: 39008
Ion Ratio Lower Upper
107 100
108 109.2 96.6 145.0
77 47.9 23.3 34.9#
79 46.7 22.0 33.0#



#18
Hexachloroethane
Concen: 16.22 ng
RT: 7.85 min Scan# 417
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Tgt Ion:117 Resp: 18659
Ion Ratio Lower Upper
117 100
119 90.2 83.8 125.6
201 84.9 55.1 82.7#

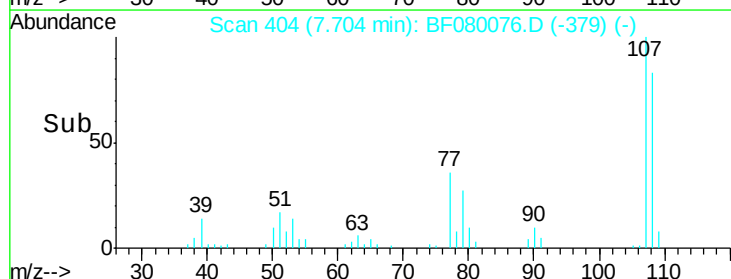
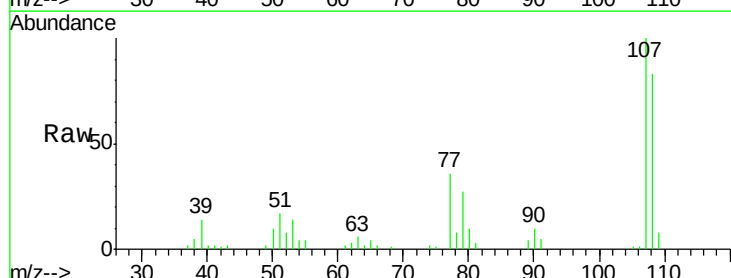
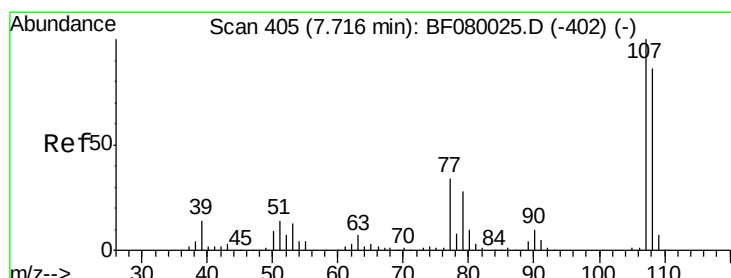
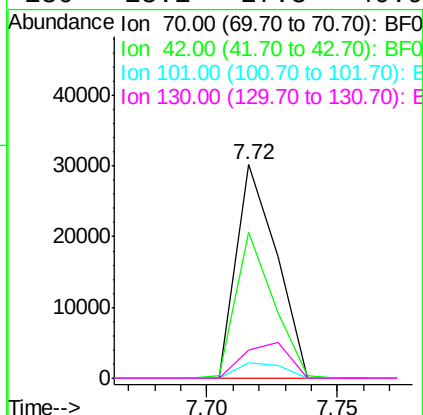




#19
n-Nitroso-di-n-propylamine
Concen: 13.43 ng
RT: 7.72 min Scan# 405
Delta R.T. -0.02 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

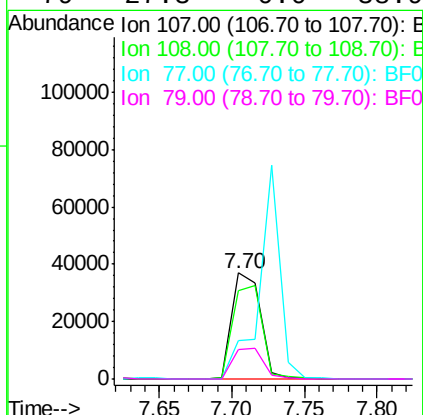
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2015-02

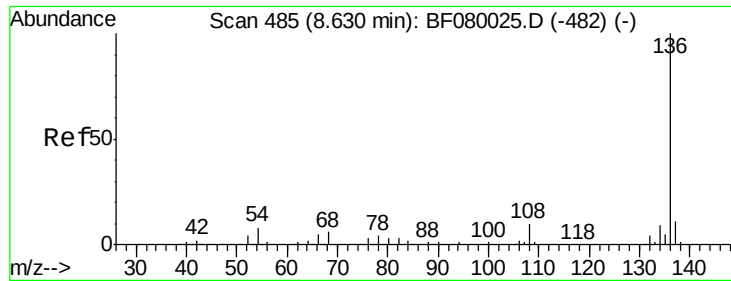
Tgt Ion: 70 Resp: 32447
Ion Ratio Lower Upper
70 100
42 68.6 63.8 95.6
101 7.2 9.2 13.8#
130 13.1 27.3 40.9#



#20
3+4-Methylphenols
Concen: 15.28 ng
RT: 7.70 min Scan# 404
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Tgt Ion: 107 Resp: 50916
Ion Ratio Lower Upper
107 100
108 83.1 74.6 114.6
77 35.9 0.7 40.7
79 27.3 0.0 38.9

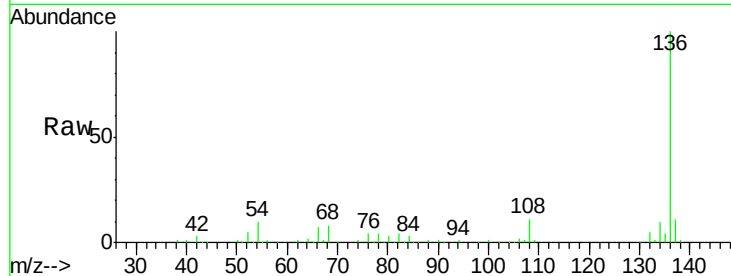




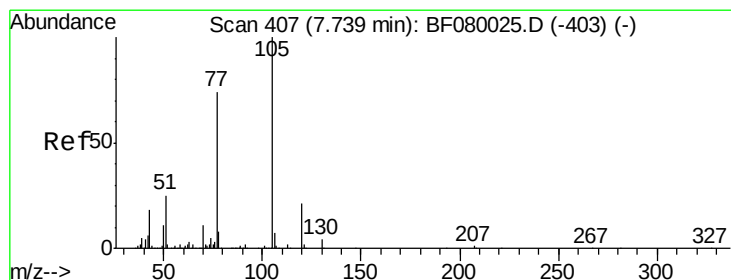
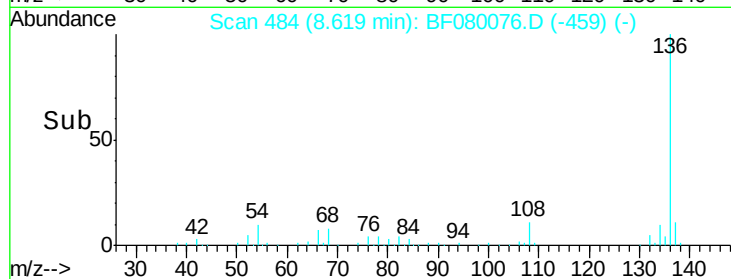
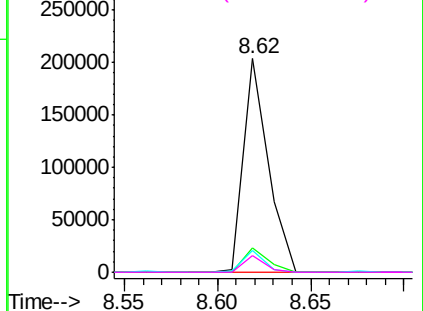
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.62 min Scan# 484
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2015-02

Tgt Ion:	136	Resp:	188412
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.6
54	10.2	8.2	12.2
68	7.7	5.8	8.6

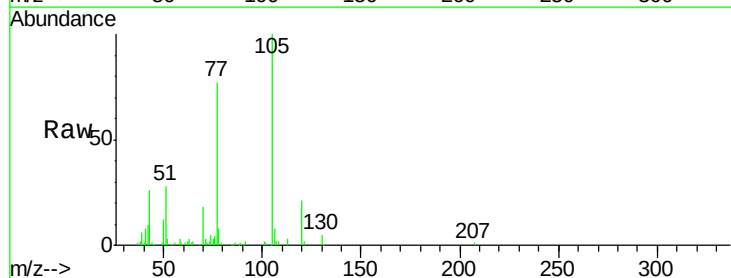


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

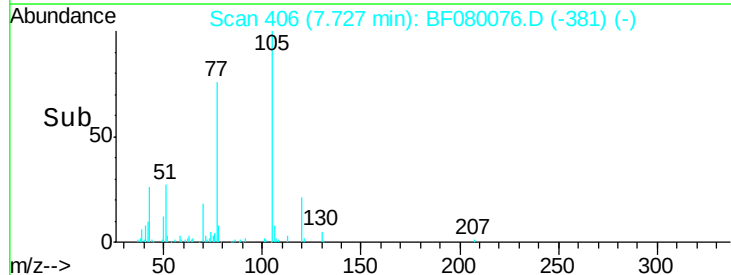
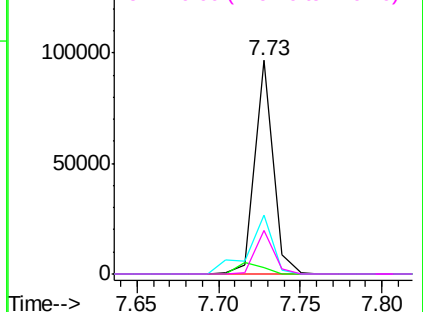


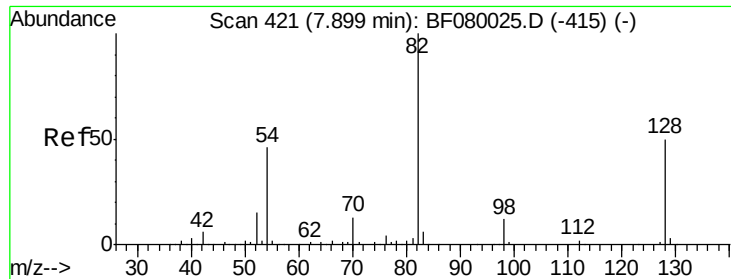
#22
Acetophenone
Concen: 17.24 ng
RT: 7.73 min Scan# 406
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Tgt Ion:	105	Resp:	75710
Ion Ratio	Lower	Upper	
105	100		
71	2.7	4.7	7.1#
51	27.9	22.0	33.0
120	20.5	30.1	45.1#



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 71.00 (70.70 to 71.70): BF0
Ion 51.00 (50.70 to 51.70): BF0
Ion 120.00 (119.70 to 120.70): E

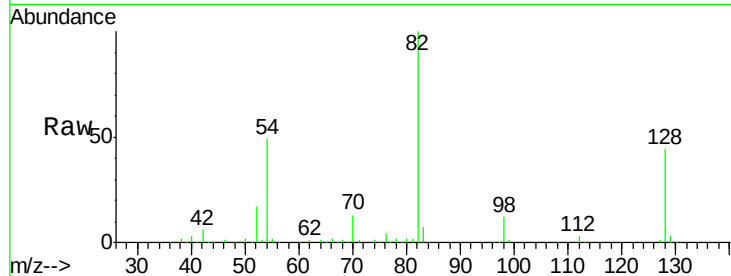




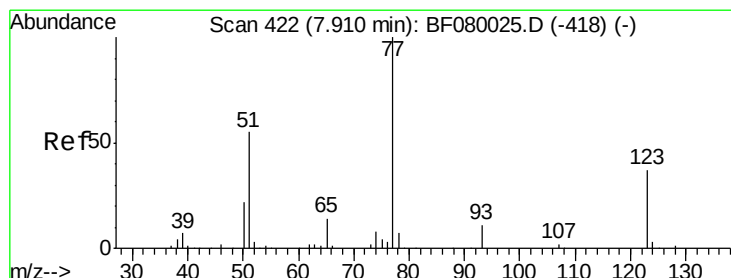
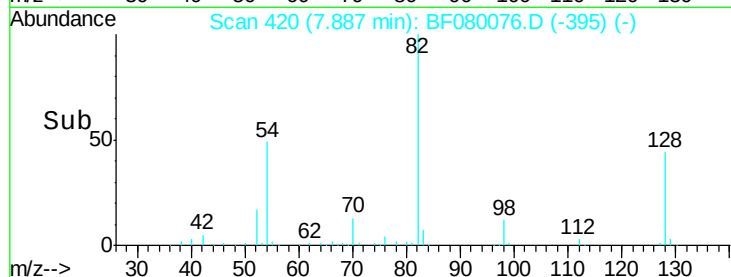
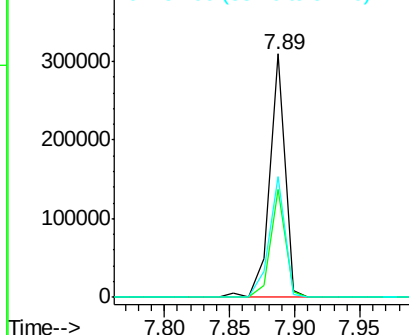
#23
 Nitrobenzene-d5
 Concen: 79.22 ng
 RT: 7.89 min Scan# 420
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.1	51.0	76.6#
54	49.4	47.5	71.3

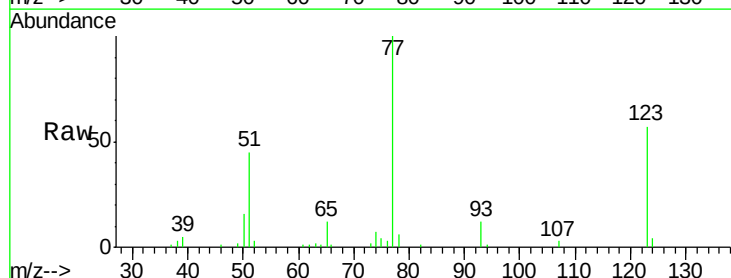


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

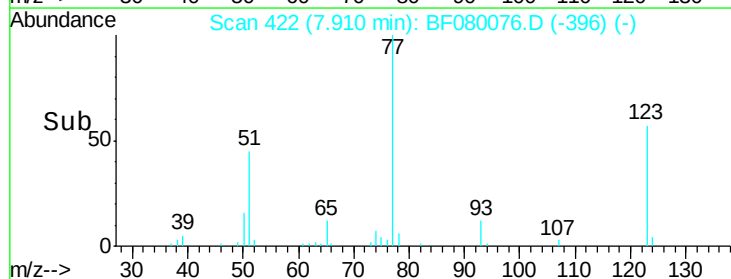
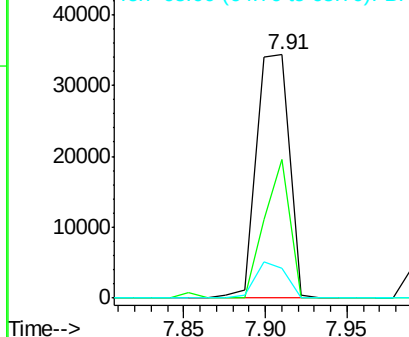


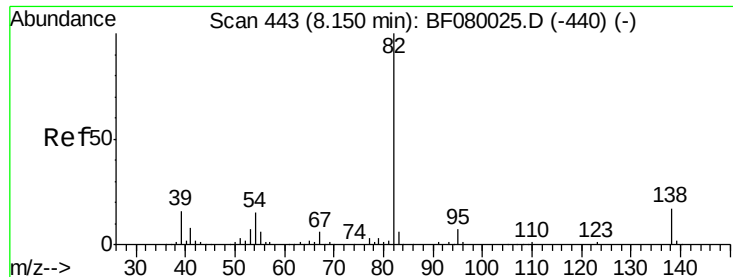
#24
 Nitrobenzene
 Concen: 14.41 ng
 RT: 7.91 min Scan# 422
 Delta R.T. 0.00 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion	Ratio	Lower	Upper
77	100		
123	57.0	59.8	89.8#
65	12.3	10.2	15.4



Abundance Ion 77.00 (76.70 to 77.70): BF0
 Ion 123.00 (122.70 to 123.70): B
 Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 14.76 ng

RT: 8.14 min Scan# 442

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

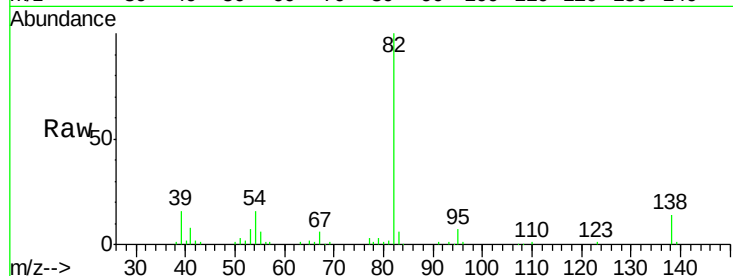
Tgt Ion: 82 Resp: 96111

Ion Ratio Lower Upper

82 100

95 6.6 4.0 6.0#

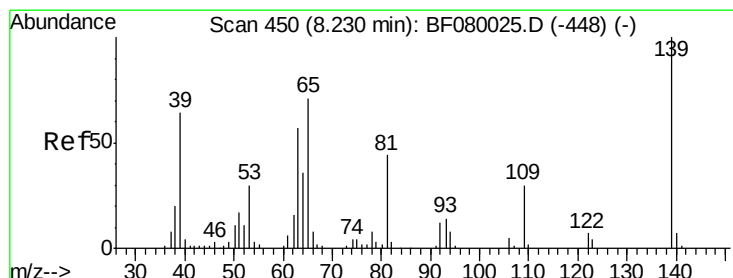
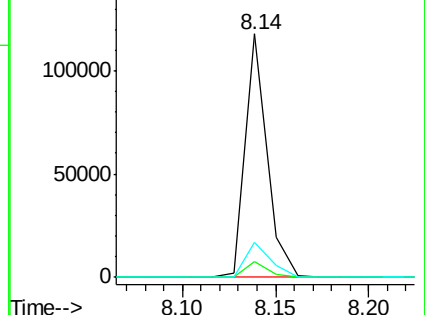
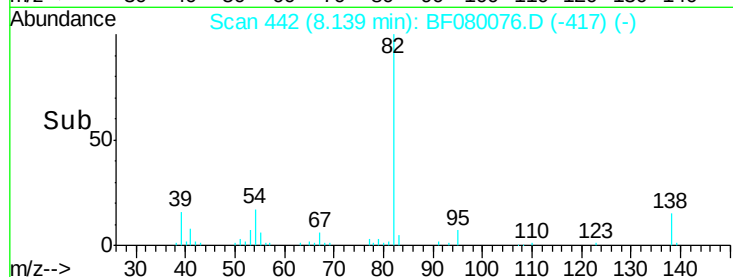
138 14.3 18.3 27.5#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 15.46 ng

RT: 8.23 min Scan# 450

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

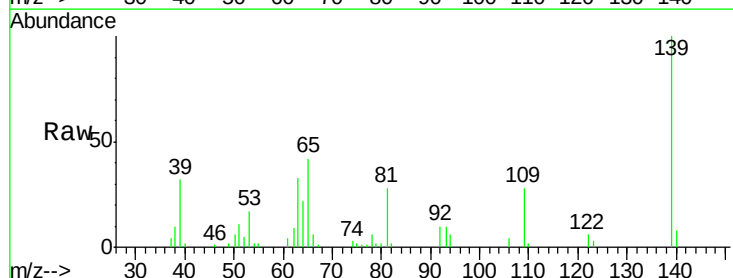
Tgt Ion: 139 Resp: 21616

Ion Ratio Lower Upper

139 100

109 27.6 11.0 16.4#

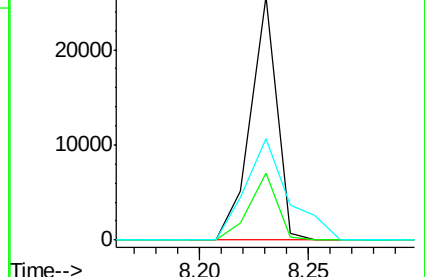
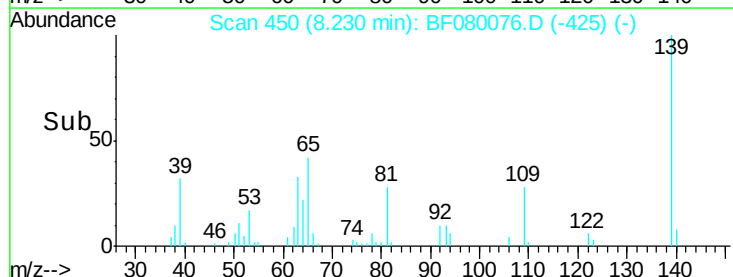
65 42.0 24.7 37.1#

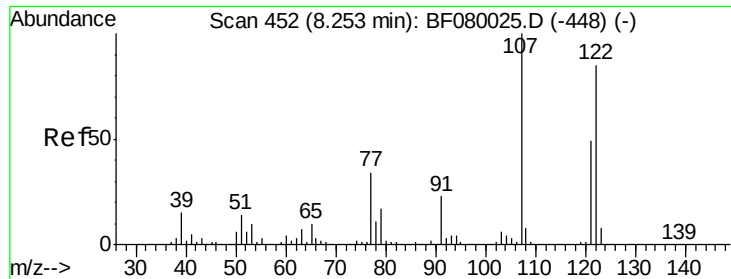


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

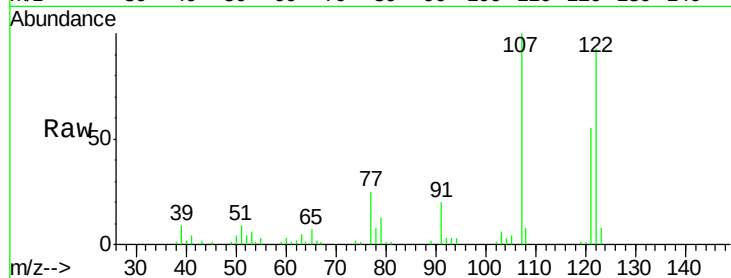




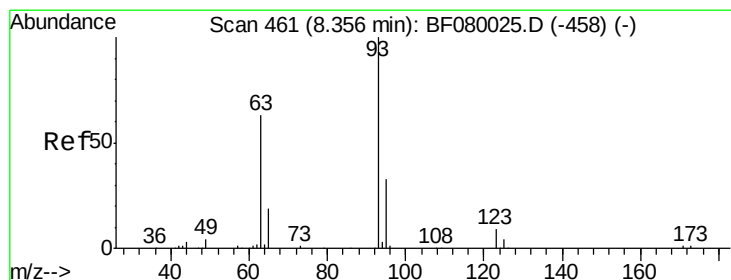
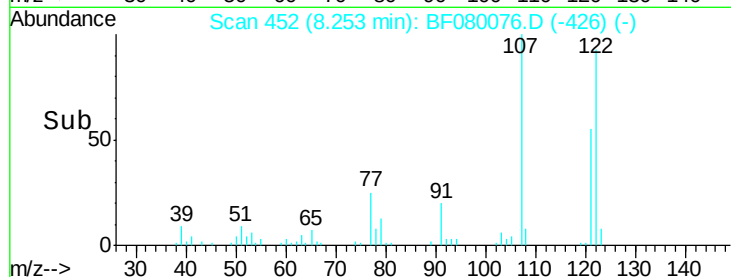
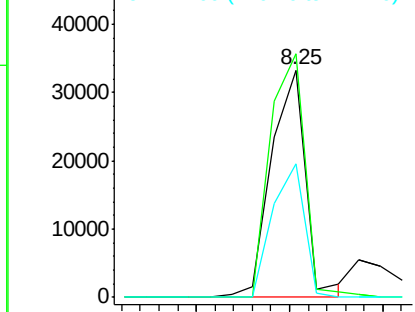
#27
 2,4-Dimethylphenol
 Concen: 14.58 ng
 RT: 8.25 min Scan# 452
 Delta R.T. 0.00 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:122 Resp: 42507
 Ion Ratio Lower Upper
 122 100
 107 107.1 71.8 107.6
 121 58.5 42.3 63.5

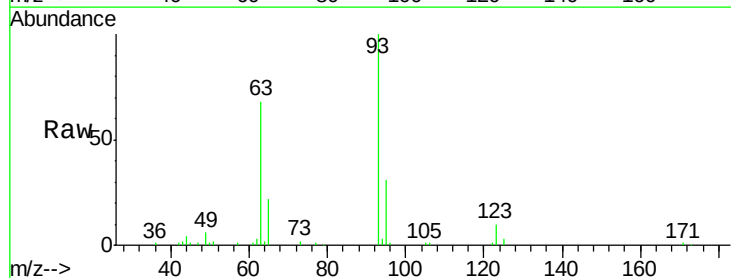


Abundance Ion 122.00 (121.70 to 122.70): E
 Ion 107.00 (106.70 to 107.70): E
 Ion 121.00 (120.70 to 121.70): E

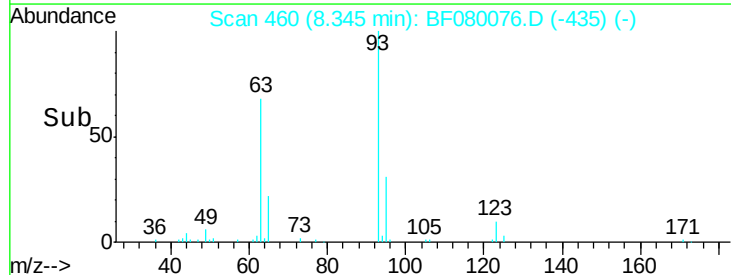
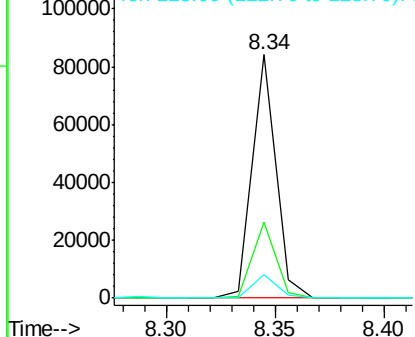


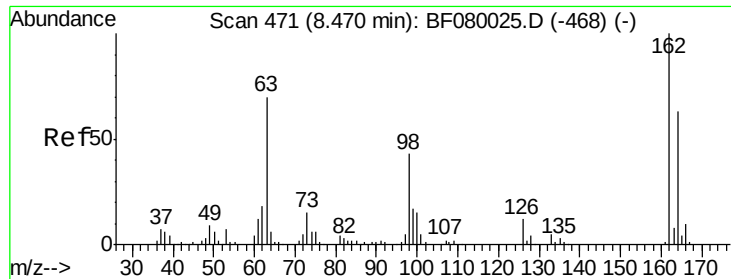
#28
 bis(2-Chloroethoxy)methane
 Concen: 16.62 ng
 RT: 8.34 min Scan# 460
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion: 93 Resp: 63594
 Ion Ratio Lower Upper
 93 100
 95 31.4 27.5 41.3
 123 9.6 13.7 20.5#



Abundance Ion 93.00 (92.70 to 93.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 123.00 (122.70 to 123.70): E

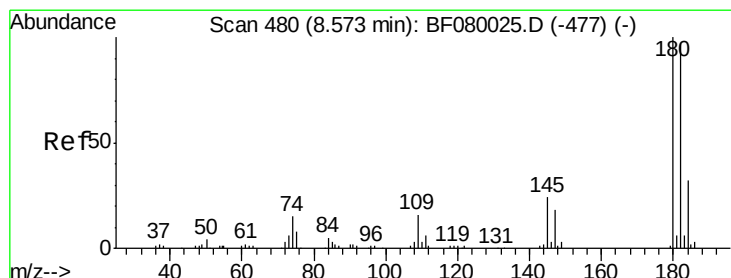
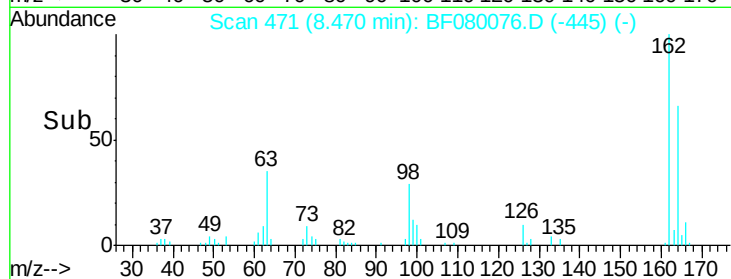
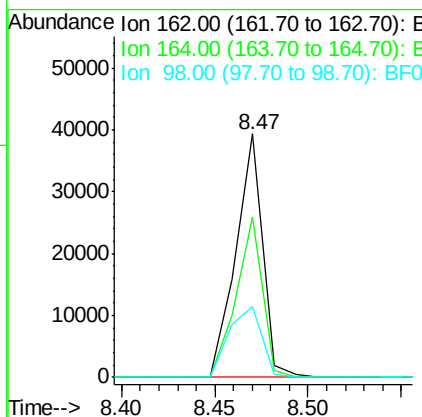
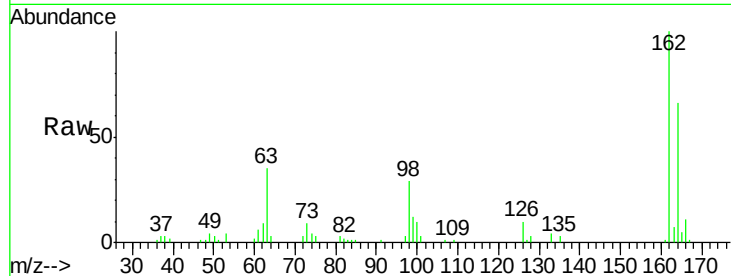




#29
 2,4-Dichlorophenol
 Concen: 15.78 ng
 RT: 8.47 min Scan# 471
 Delta R.T. 0.00 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

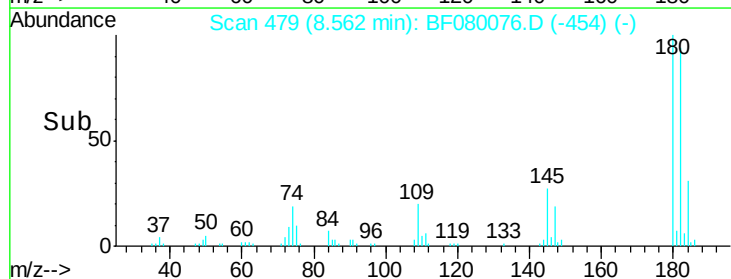
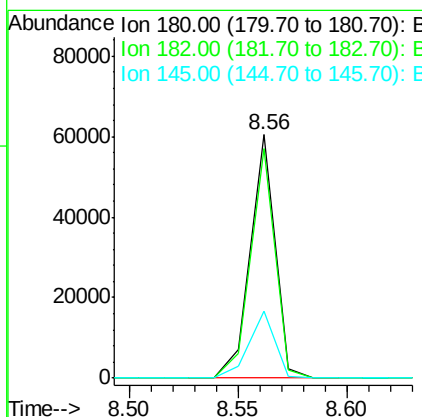
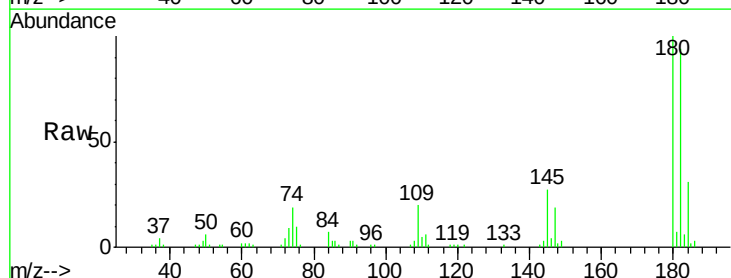
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

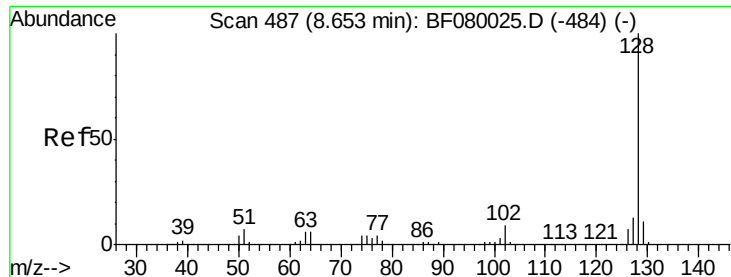
Tgt Ion:	162	Resp:	39390
Ion	Ratio	Lower	Upper
162	100		
164	65.8	44.9	84.9
98	28.9	13.0	53.0



#30
 1,2,4-Trichlorobenzene
 Concen: 16.92 ng
 RT: 8.56 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion:	180	Resp:	47975
Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.1	115.7
145	27.3	23.3	34.9

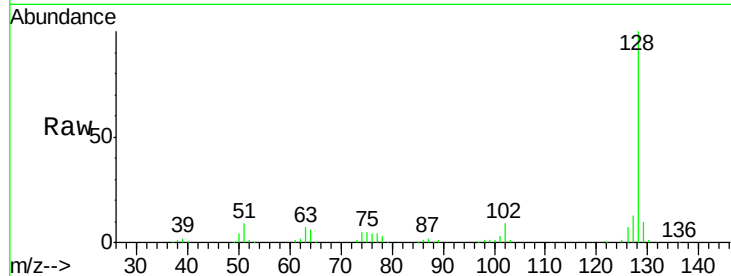




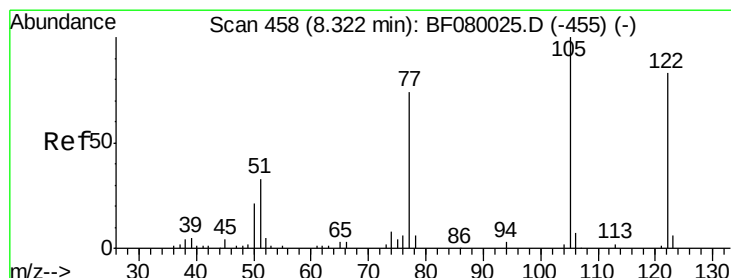
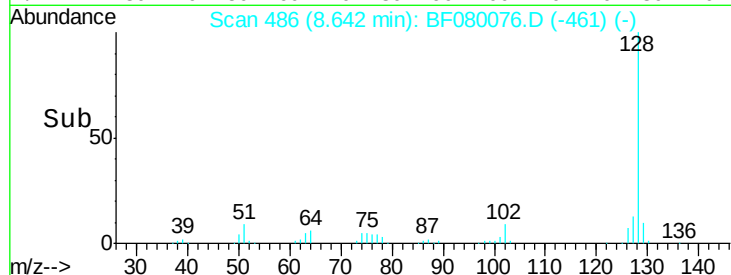
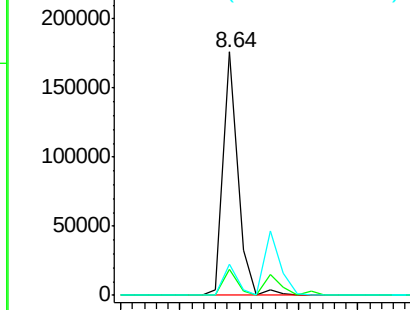
#31
Naphthalene
Concen: 15.23 ng
RT: 8.64 min Scan# 486
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2015-02

Tgt Ion:128 Resp: 150017
Ion Ratio Lower Upper
128 100
129 10.5 8.4 12.6
127 12.8 9.9 14.9

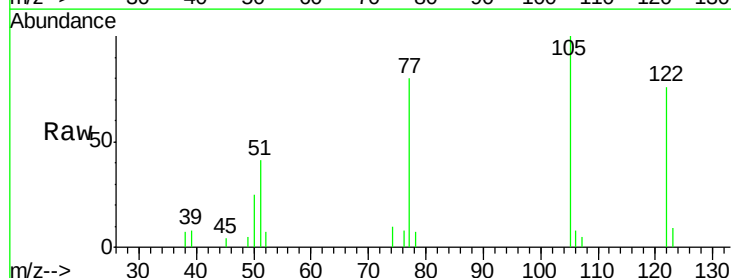


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

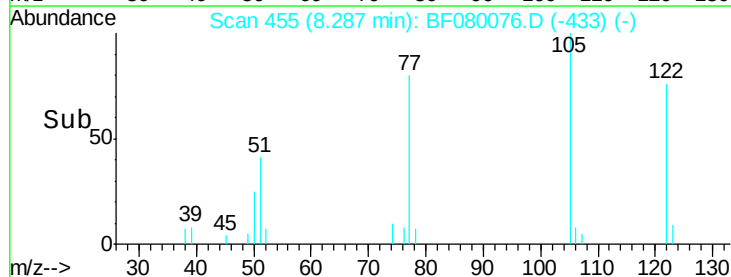
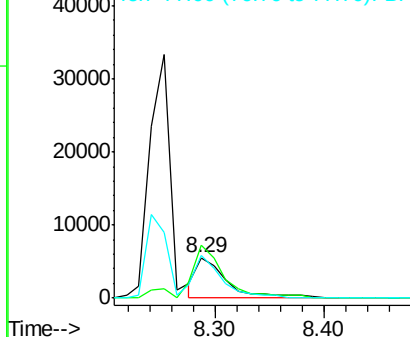


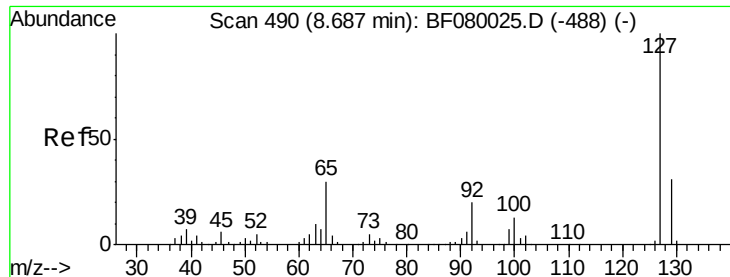
#32
Benzoic acid
Concen: 6.25 ng
RT: 8.29 min Scan# 455
Delta R.T. -0.05 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Tgt Ion:122 Resp: 11023
Ion Ratio Lower Upper
122 100
105 131.4 76.1 116.1#
77 105.3 40.5 80.5#



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): BF0

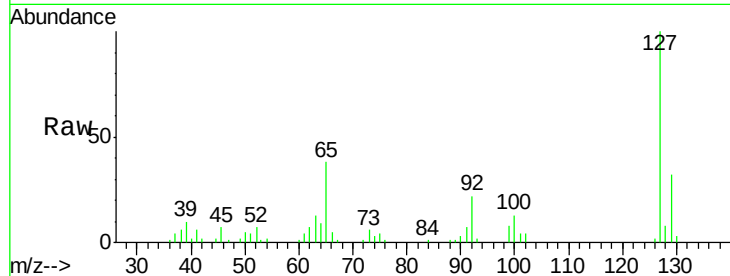




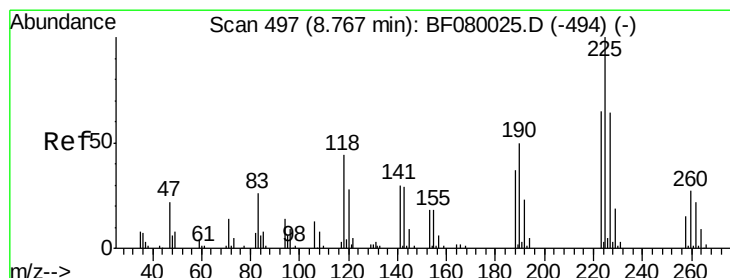
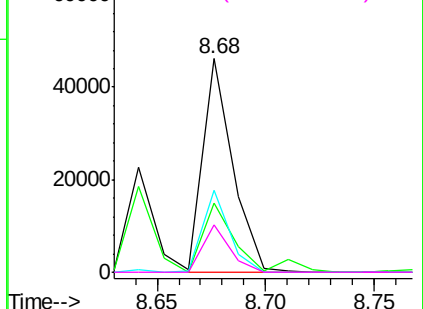
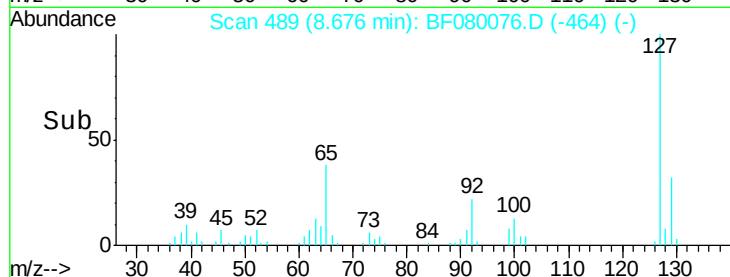
#33
 4-Chloroaniline
 Concen: 10.36 ng
 RT: 8.68 min Scan# 489
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:	127	Resp:	43685
Ion Ratio	Lower	Upper	
127	100		
129	32.1	25.8	38.6
65	38.1	17.9	26.9#
92	22.5	10.5	15.7#

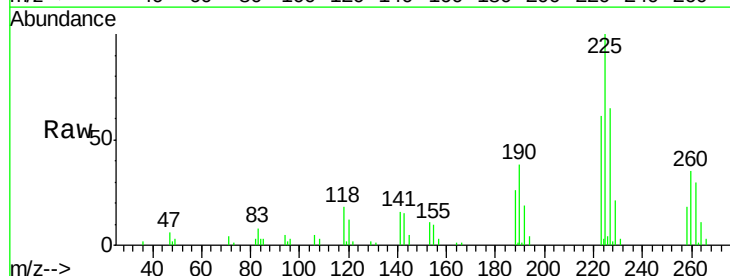


Abundance Ion 127.00 (126.70 to 127.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 65.00 (64.70 to 65.70): BF0
 Ion 92.00 (91.70 to 92.70): BF0

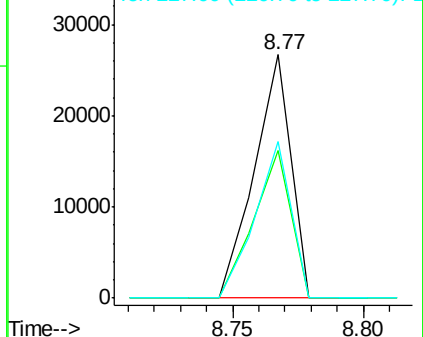
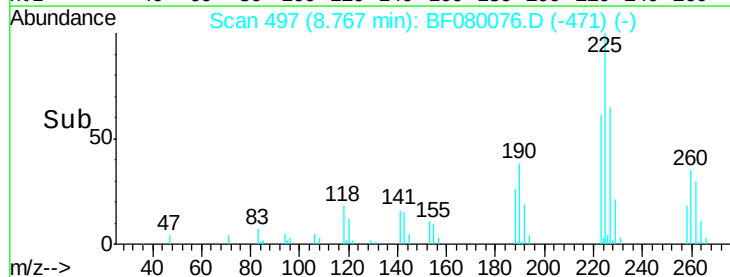


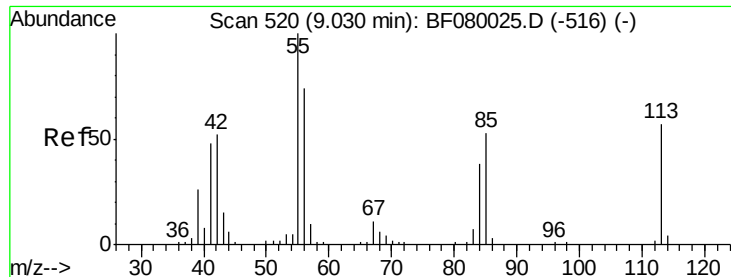
#34
 Hexachlorobutadiene
 Concen: 14.82 ng
 RT: 8.77 min Scan# 497
 Delta R.T. 0.00 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion:	225	Resp:	25881
Ion Ratio	Lower	Upper	
225	100		
223	60.7	50.2	75.2
227	64.5	52.2	78.2



Abundance Ion 225.00 (224.70 to 225.70): E
 Ion 223.00 (222.70 to 223.70): E
 Ion 227.00 (226.70 to 227.70): E

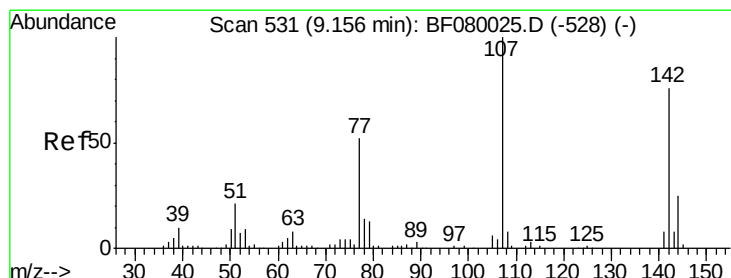
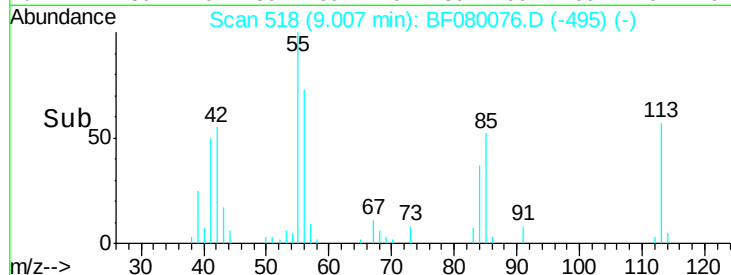
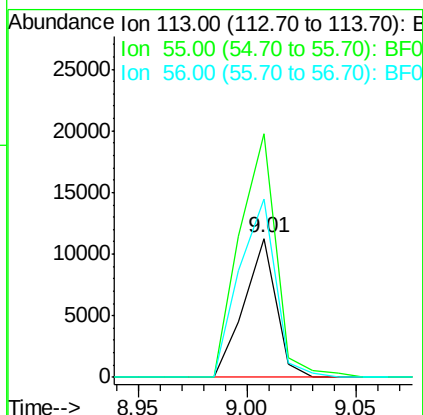
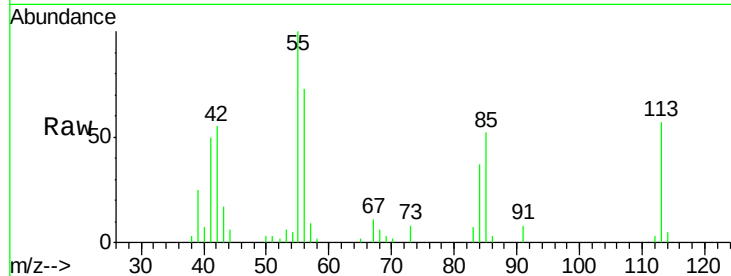




#35
 Caprolactam
 Concen: 14.23 ng
 RT: 9.01 min Scan# 518
 Delta R.T. -0.03 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

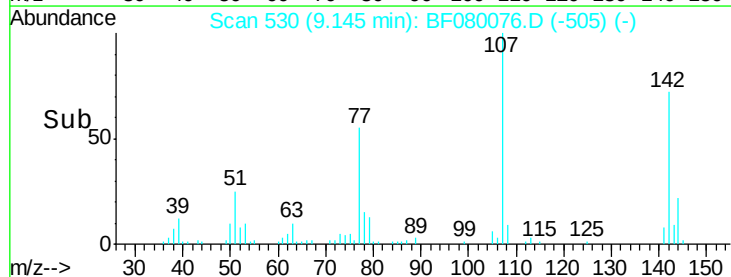
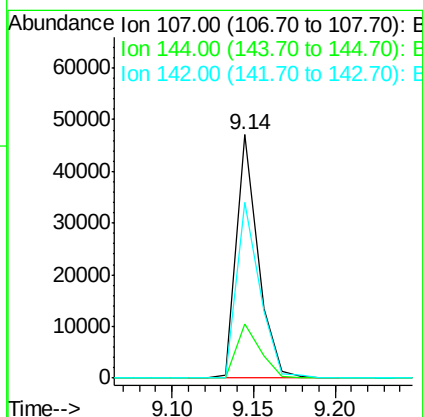
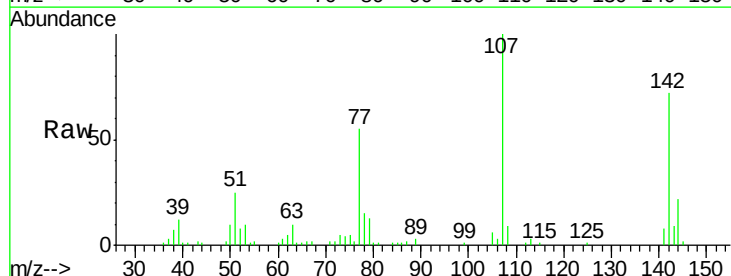
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

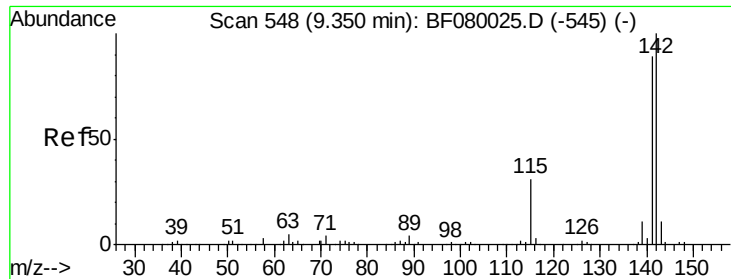
Tgt Ion:113 Resp: 11530
 Ion Ratio Lower Upper
 113 100
 55 175.0 152.4 192.4
 56 128.2 104.6 144.6



#36
 4-Chloro-3-methylphenol
 Concen: 15.33 ng
 RT: 9.14 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion:107 Resp: 43171
 Ion Ratio Lower Upper
 107 100
 144 22.2 25.4 38.0#
 142 72.1 77.3 115.9#

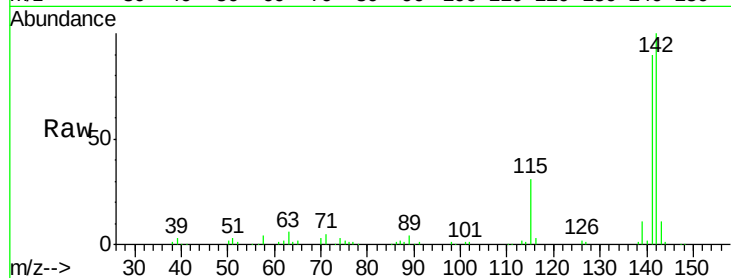




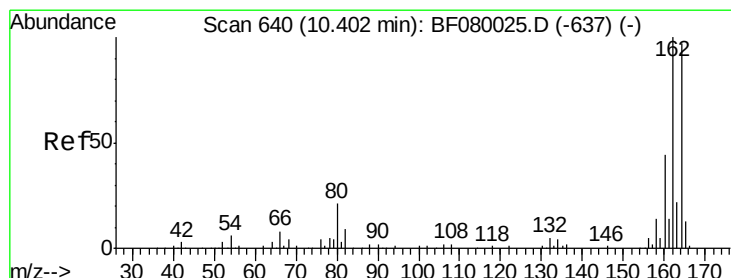
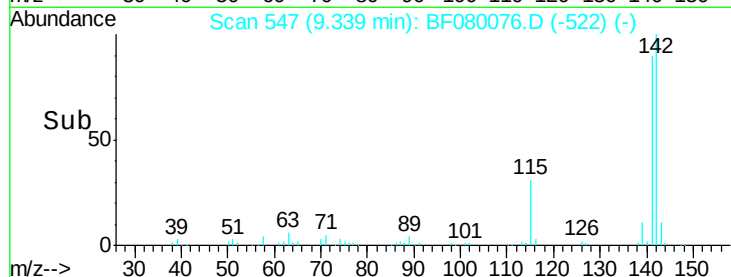
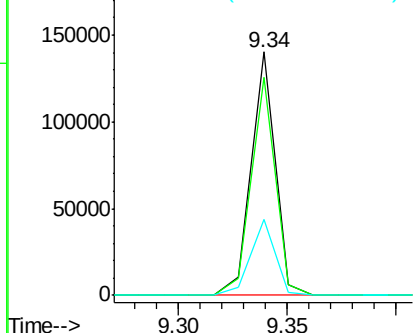
#37
 2-Methylnaphthalene
 Concen: 16.89 ng
 RT: 9.34 min Scan# 547
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:142 Resp: 107648
 Ion Ratio Lower Upper
 142 100
 141 89.6 67.5 101.3
 115 31.4 18.2 27.2#

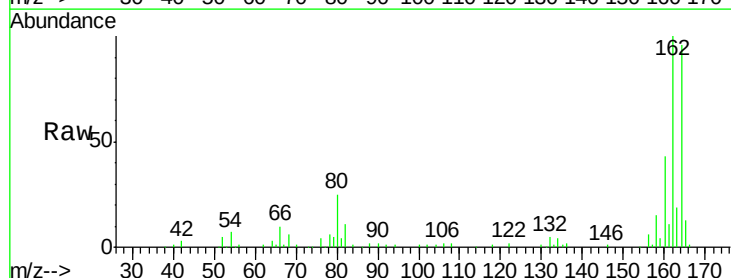


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

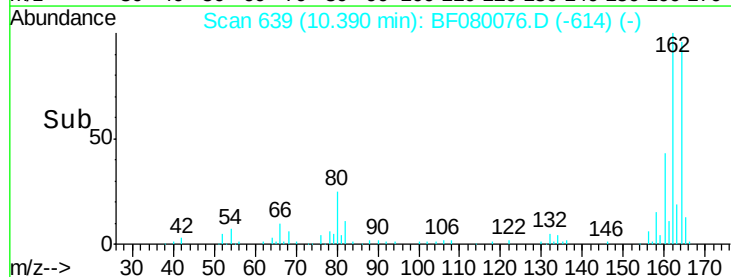
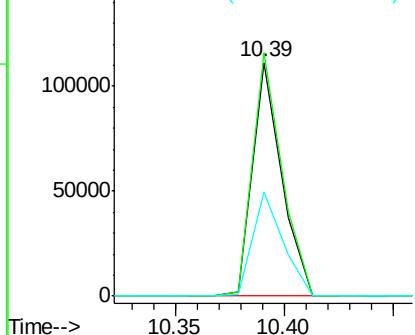


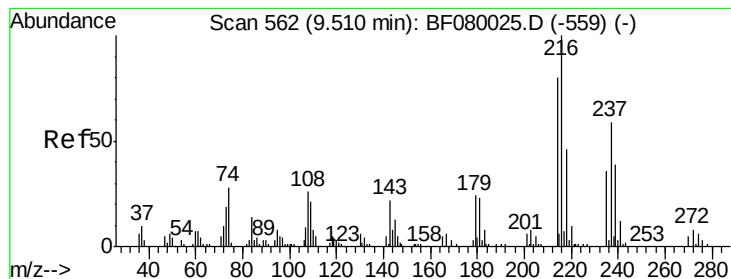
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.39 min Scan# 639
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion:164 Resp: 103425
 Ion Ratio Lower Upper
 164 100
 162 104.0 75.2 112.8
 160 44.5 31.5 47.3



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





#39

1,2,4,5-Tetrachlorobenzene

Concen: 16.52 ng

RT: 9.51 min Scan# 562

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

Tgt Ion:216 Resp: 49723

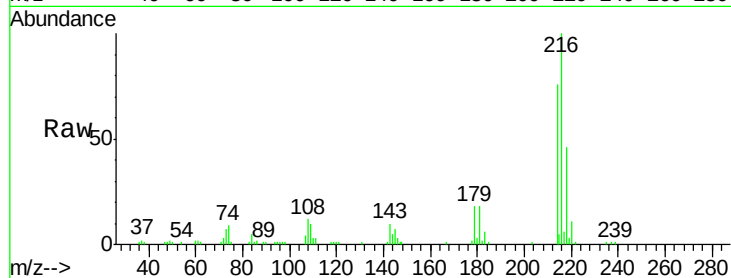
Ion Ratio Lower Upper

216 100

214 75.8 63.5 95.3

179 19.6 16.6 24.8

108 16.9 16.3 24.5

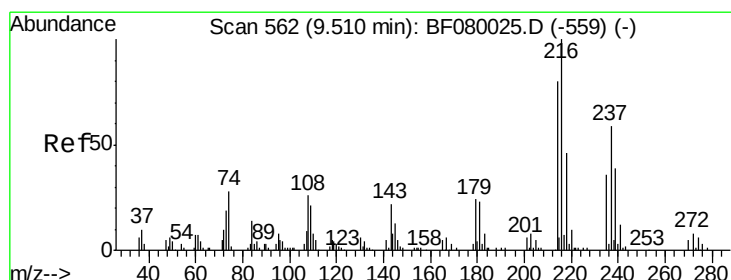
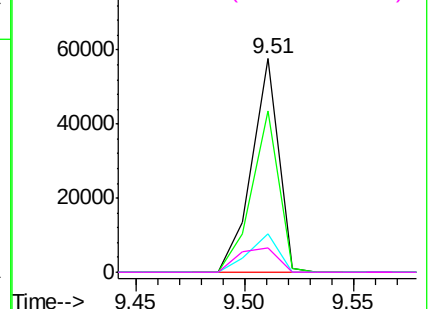
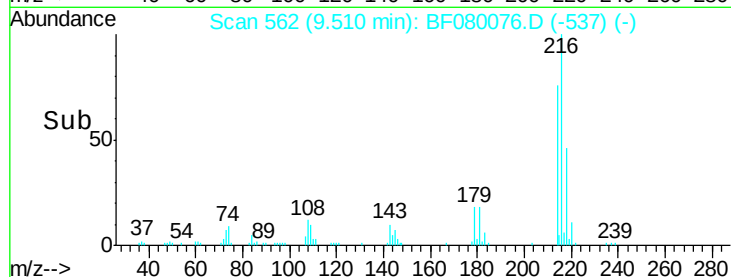


Abundance Ion 216.00 (215.70 to 216.70): E

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



#40

Hexachlorocyclopentadiene

Concen: 17.42 ng

RT: 9.50 min Scan# 561

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

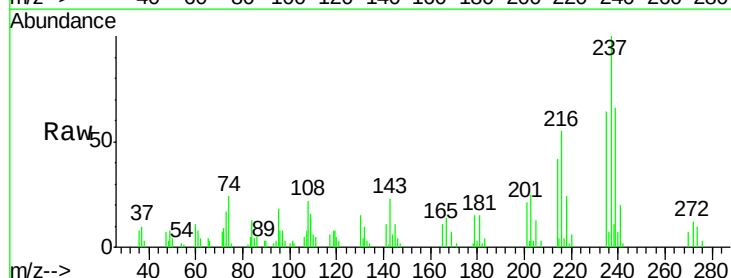
Tgt Ion:237 Resp: 18767

Ion Ratio Lower Upper

237 100

235 64.2 42.0 82.0

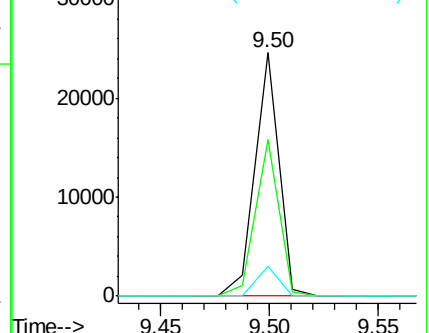
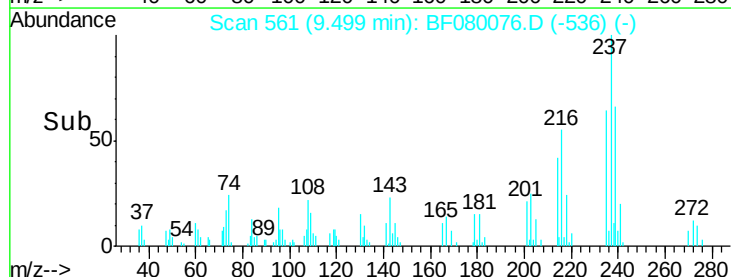
272 12.3 0.0 36.1

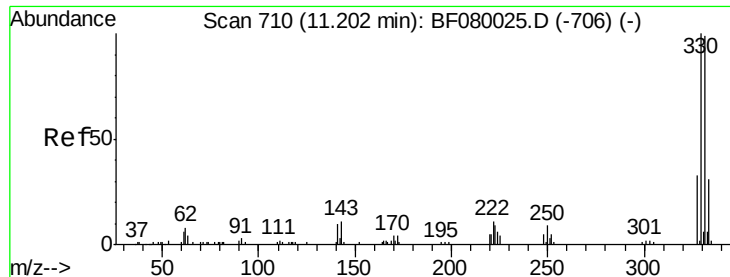


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

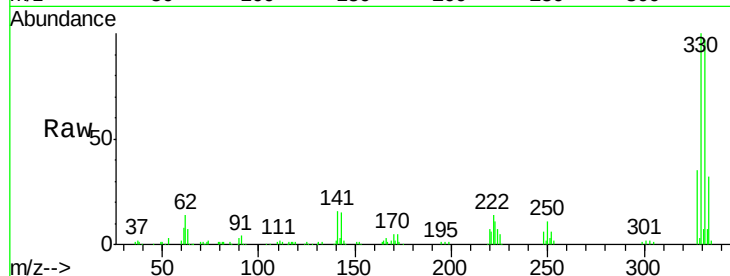




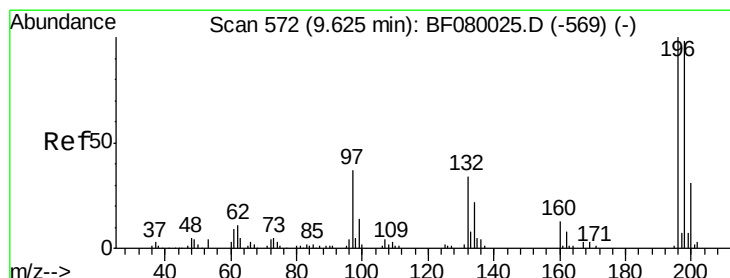
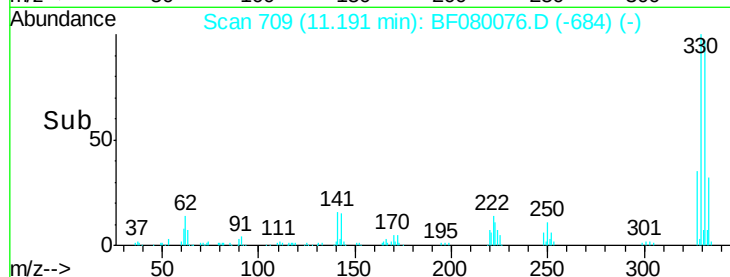
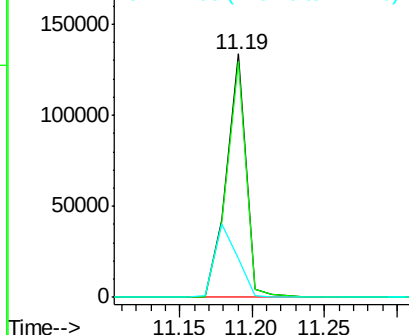
#41
 2,4,6-Tribromophenol
 Concen: 124.37 ng
 RT: 11.19 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:330 Resp: 125779
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.6 114.8
 141 35.0 29.7 44.5

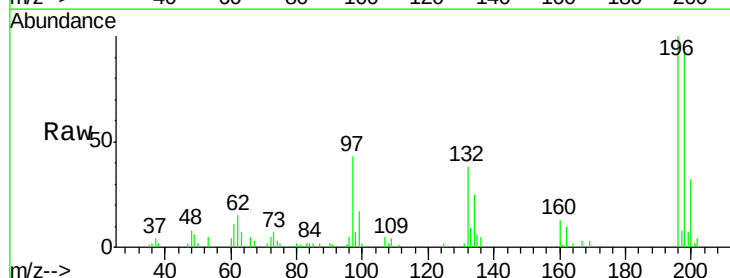


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

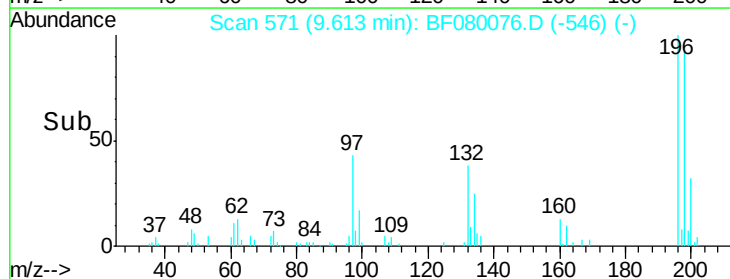
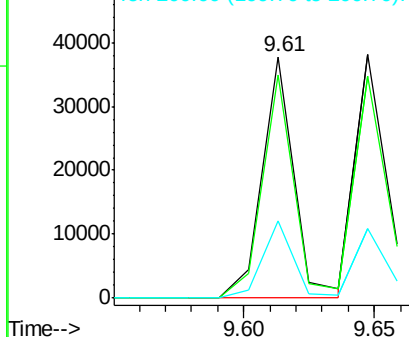


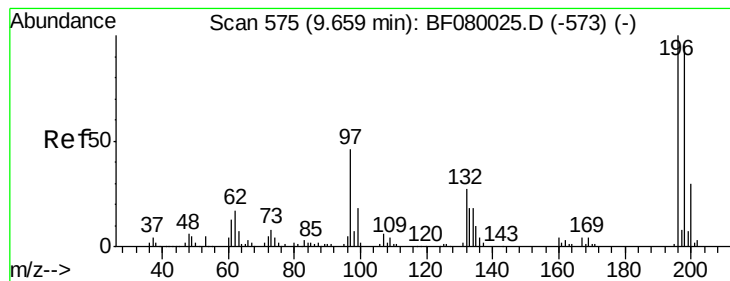
#42
 2,4,6-Trichlorophenol
 Concen: 15.47 ng
 RT: 9.61 min Scan# 571
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion:196 Resp: 31682
 Ion Ratio Lower Upper
 196 100
 198 92.4 75.7 113.5
 200 32.1 23.9 35.9



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





#43

2,4,5-Trichlorophenol

Concen: 14.25 ng

RT: 9.65 min Scan# 574

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

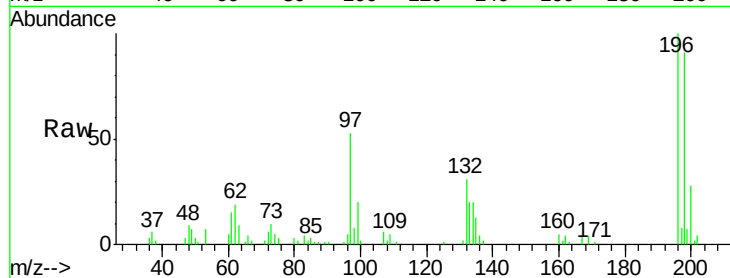
Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

Tgt Ion:	196	Resp:	33627
Ion Ratio	Lower	Upper	
196	100		
198	90.9	75.4	113.0
97	52.7	33.3	49.9#
132	30.7	24.6	37.0

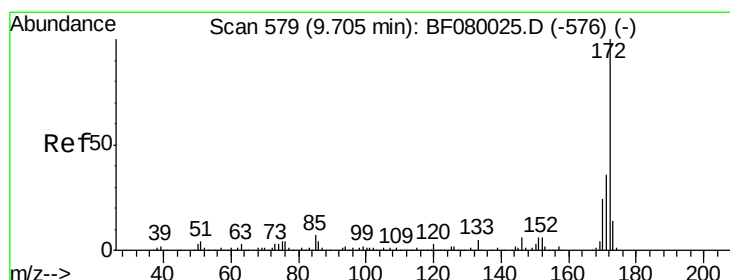
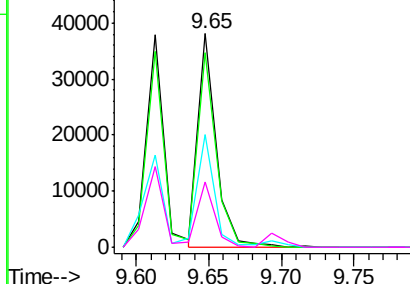
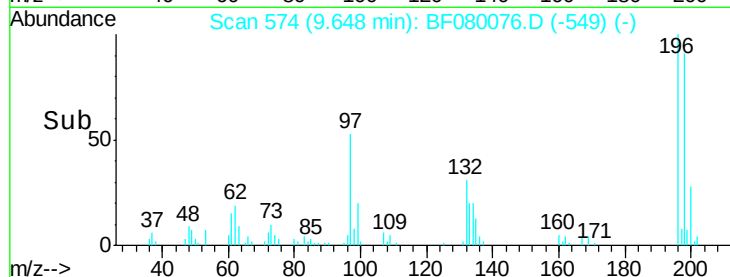


Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BF0

Ion 132.00 (131.70 to 132.70): E



#44

2-Fluorobiphenyl

Concen: 70.12 ng

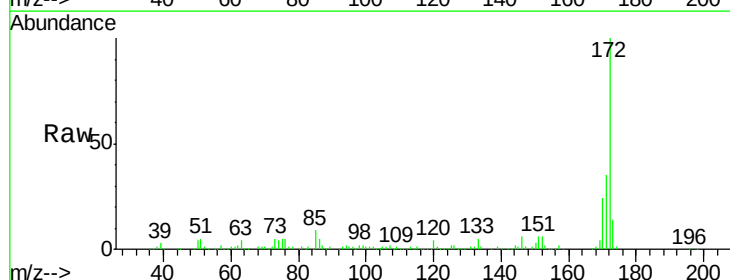
RT: 9.69 min Scan# 578

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

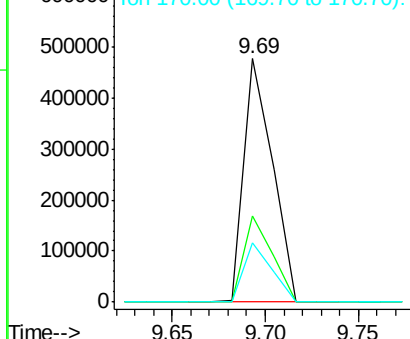
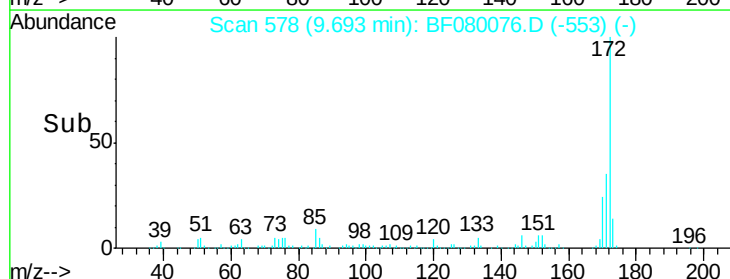
Tgt Ion:	172	Resp:	508502
Ion Ratio	Lower	Upper	
172	100		
171	35.4	26.1	39.1
170	24.3	17.4	26.2

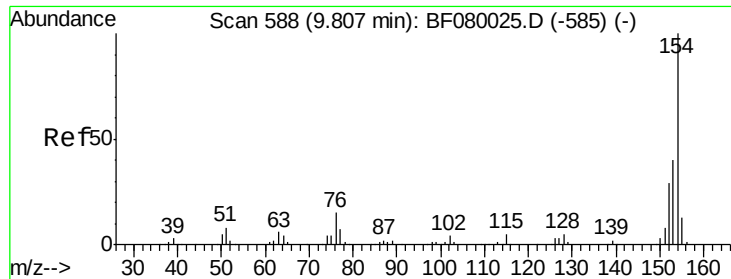


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

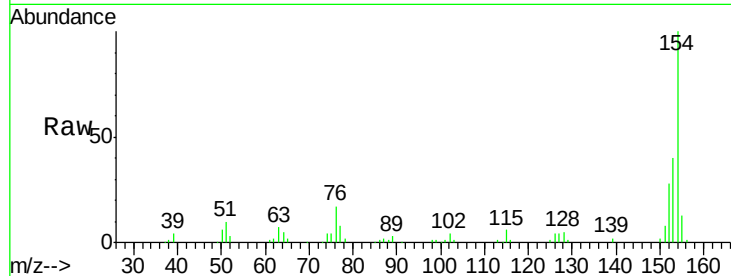




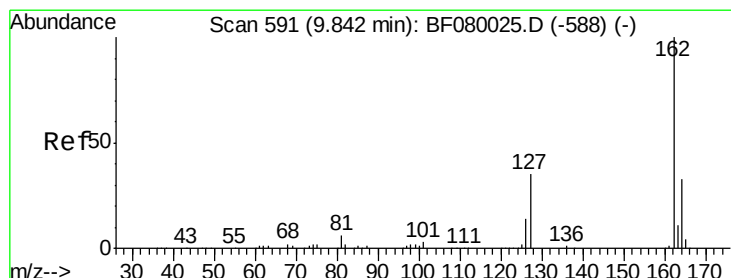
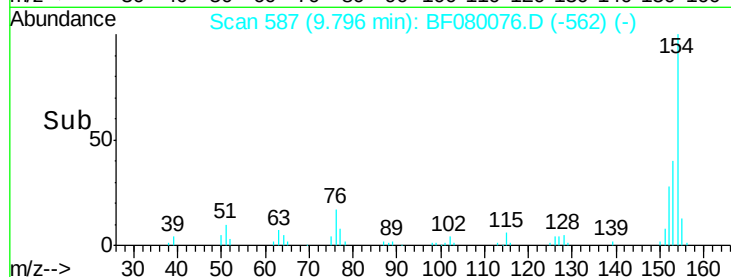
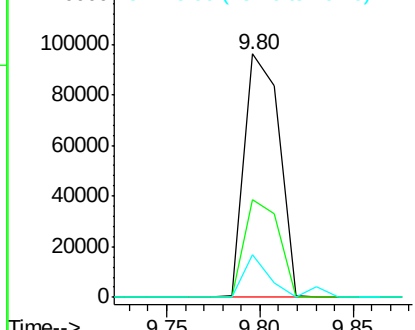
#45
 1,1'-Biphenyl
 Concen: 14.72 ng
 RT: 9.80 min Scan# 587
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:	154	Resp:	123859
Ion Ratio	Lower	Upper	
154	100		
153	40.0	17.1	57.1
76	17.3	0.0	31.6

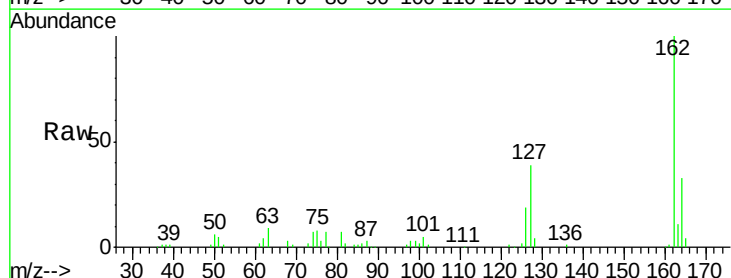


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BFO

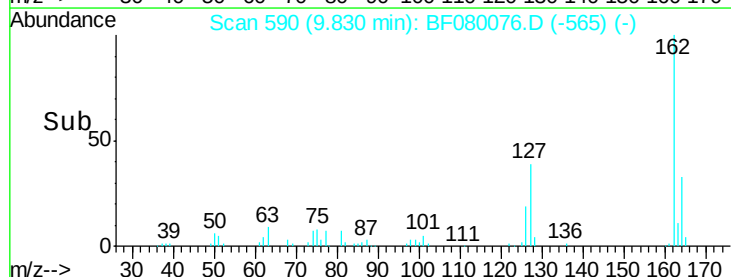
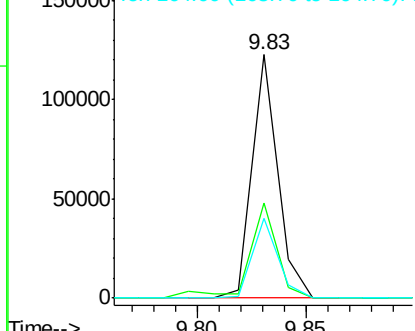


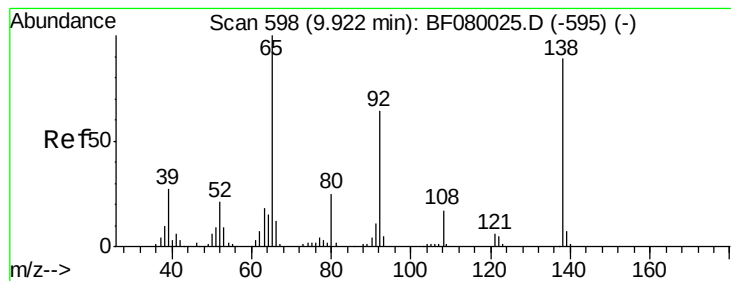
#46
 2-Chloronaphthalene
 Concen: 14.69 ng
 RT: 9.83 min Scan# 590
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion:	162	Resp:	100294
Ion Ratio	Lower	Upper	
162	100		
127	39.0	27.6	41.4
164	33.0	25.4	38.2



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





#47

2-Nitroaniline

Concen: 13.07 ng

RT: 9.91 min Scan# 597

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

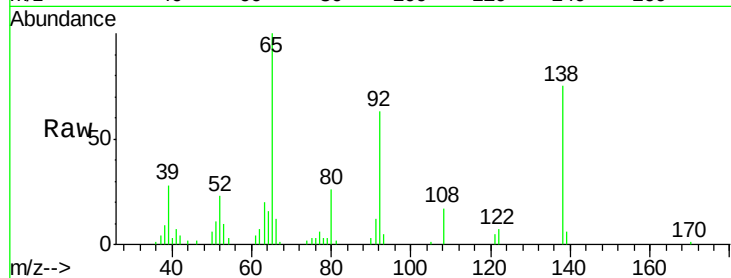
Tgt Ion: 65 Resp: 24504

Ion Ratio Lower Upper

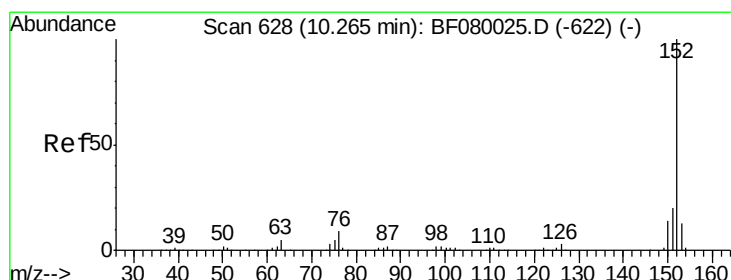
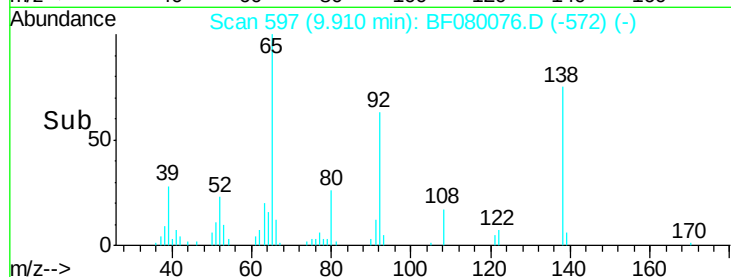
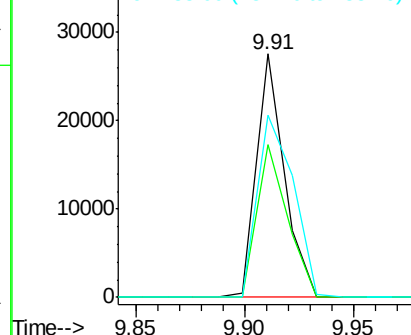
65 100

92 62.7 55.4 83.0

138 75.0 115.5 173.3#



Abundance Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#48

Acenaphthylene

Concen: 14.69 ng

RT: 10.25 min Scan# 627

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

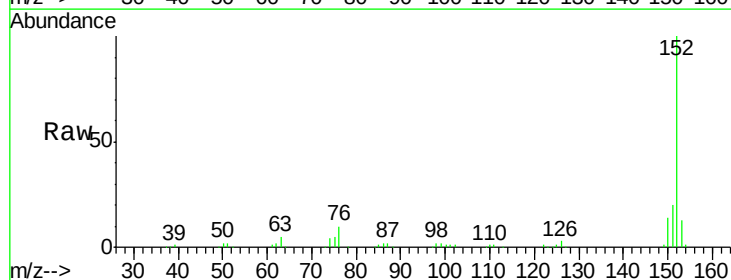
Tgt Ion: 152 Resp: 167387

Ion Ratio Lower Upper

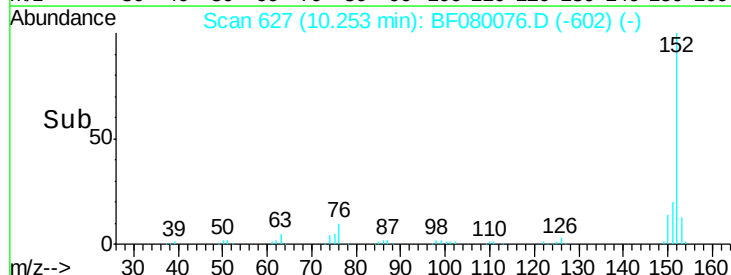
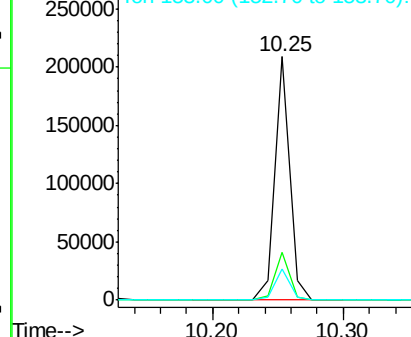
152 100

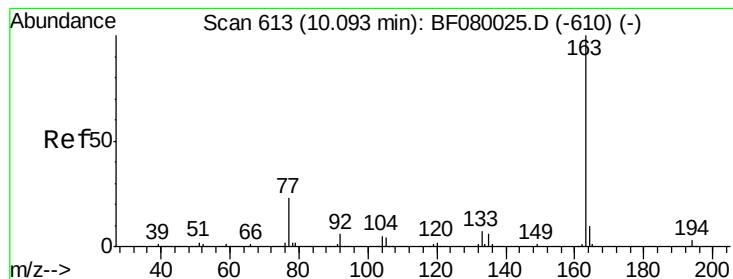
151 19.5 14.6 22.0

153 12.7 10.3 15.5



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





#49

Dimethylphthalate

Concen: 14.91 ng

RT: 10.08 min Scan# 612

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

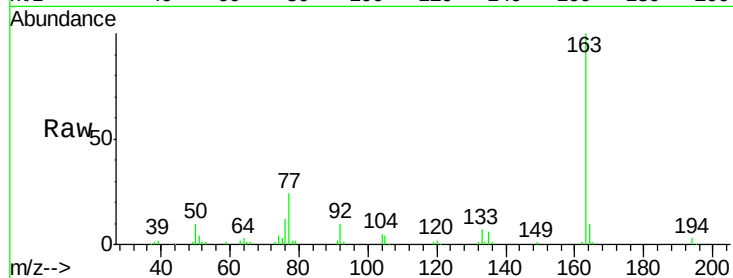
Tgt Ion:163 Resp: 115968

Ion Ratio Lower Upper

163 100

194 2.9 4.4 6.6#

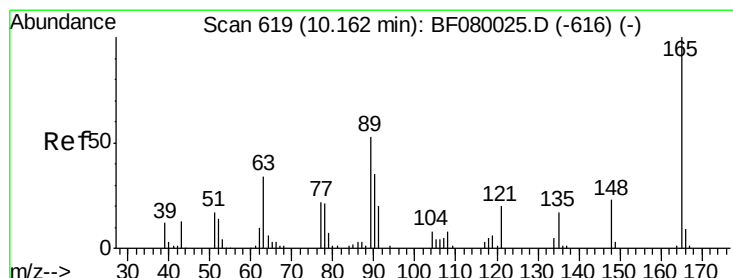
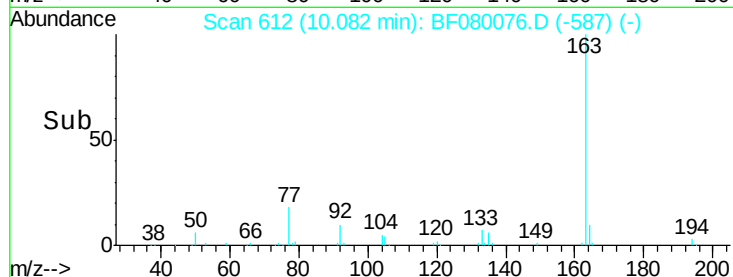
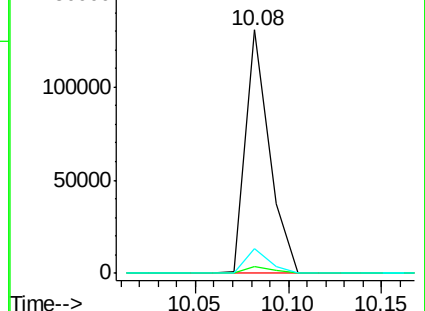
164 10.1 8.3 12.5



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



#50

2,6-Dinitrotoluene

Concen: 15.62 ng

RT: 10.15 min Scan# 618

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

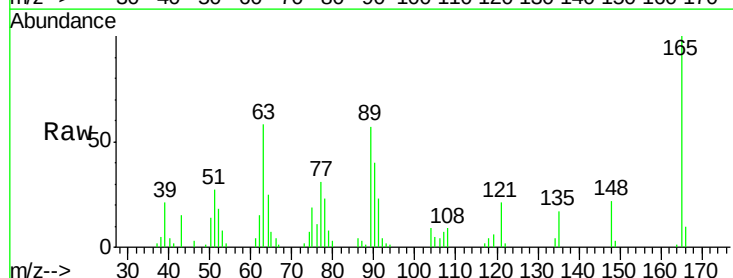
Tgt Ion:165 Resp: 24348

Ion Ratio Lower Upper

165 100

63 57.5 32.3 48.5#

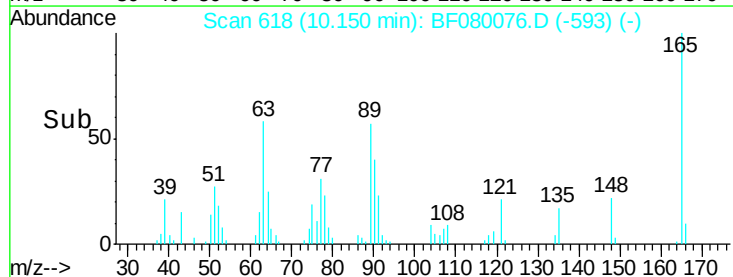
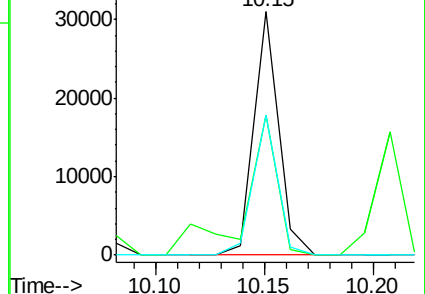
89 57.4 28.6 43.0#

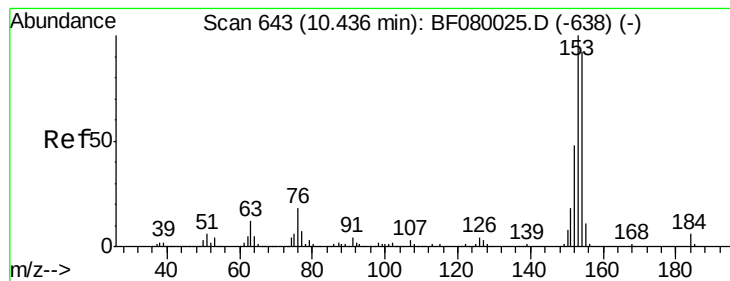


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 13.93 ng

RT: 10.42 min Scan# 642

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

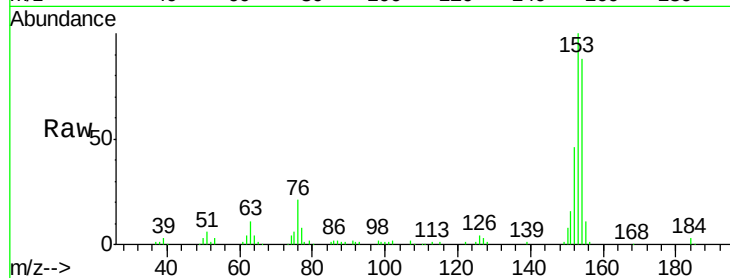
Tgt Ion:154 Resp: 97145

Ion Ratio Lower Upper

154 100

153 114.2 82.1 123.1

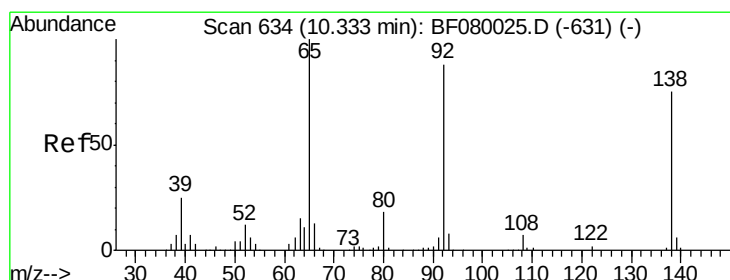
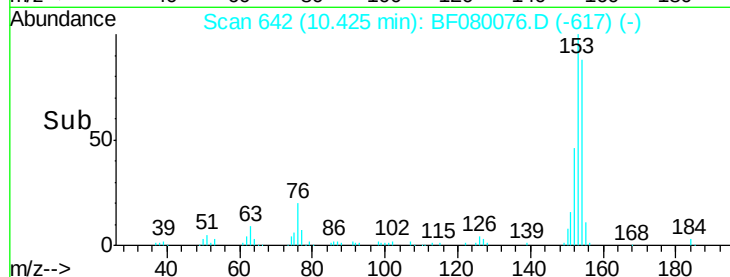
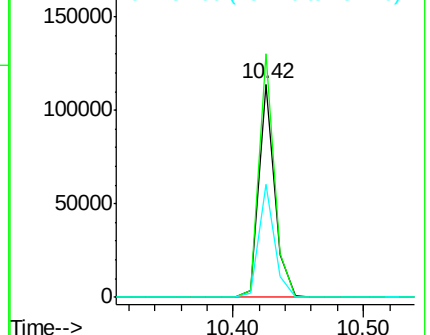
152 52.9 37.9 56.9



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



#52

3-Nitroaniline

Concen: 13.24 ng

RT: 10.32 min Scan# 633

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

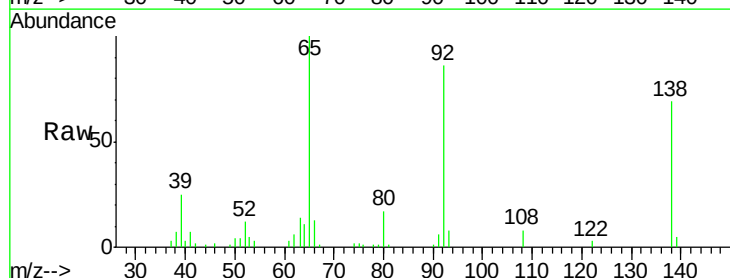
Tgt Ion:138 Resp: 23805

Ion Ratio Lower Upper

138 100

108 11.3 5.7 8.5#

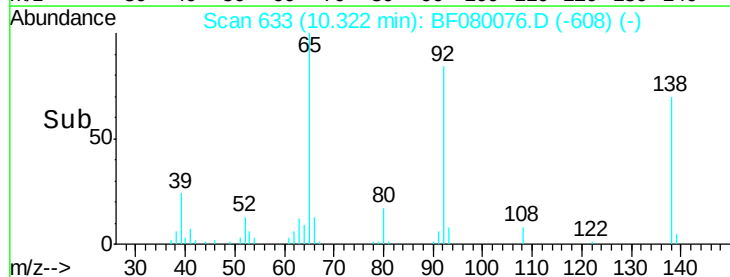
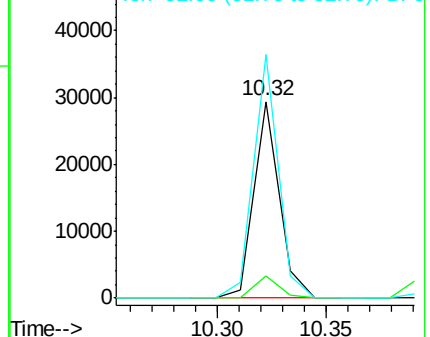
92 124.0 67.7 101.5#

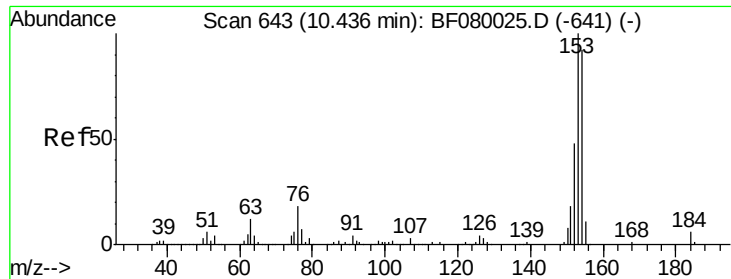


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

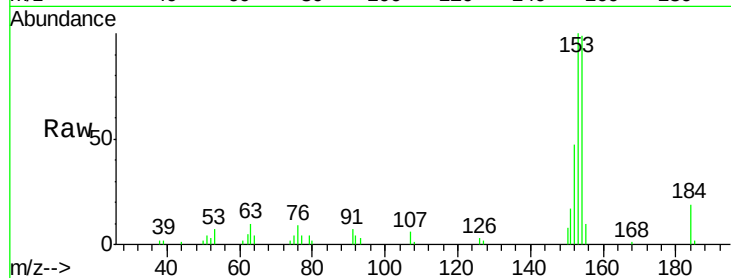




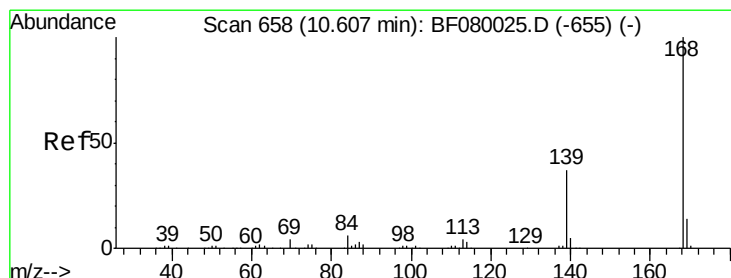
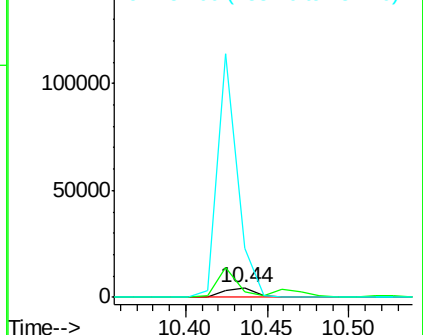
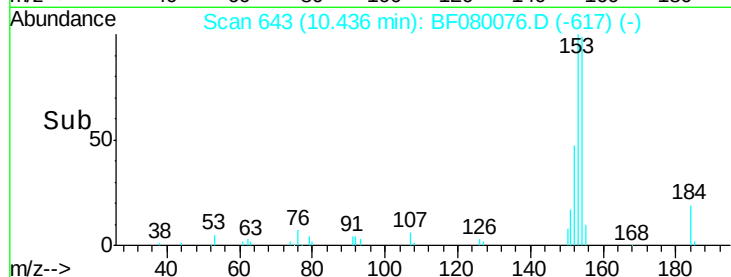
#53
2,4-Dinitrophenol
Concen: 15.30 ng
RT: 10.44 min Scan# 643
Delta R.T. 0.00 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2015-02

Tgt Ion:184 Resp: 6479
Ion Ratio Lower Upper
184 100
63 53.6 35.4 53.2#
154 508.6 32.2 48.4#

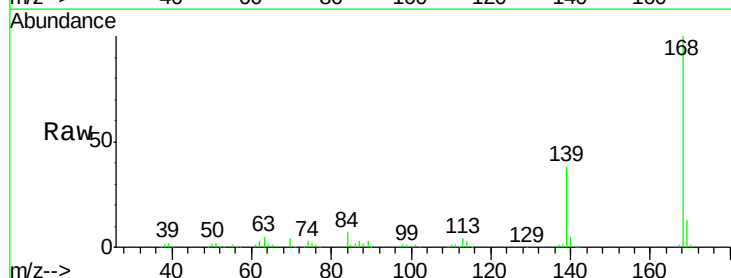


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 154.00 (153.70 to 154.70): E

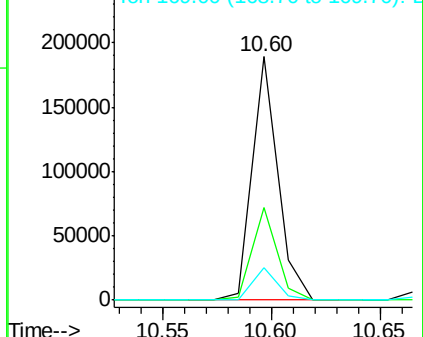
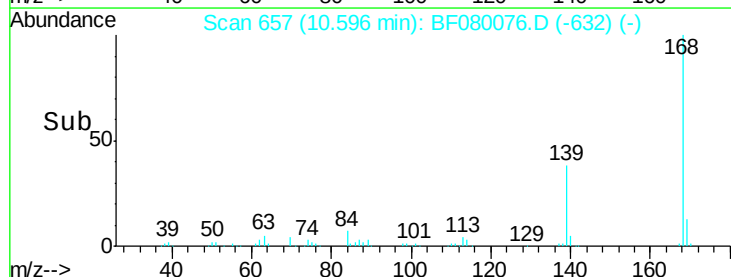


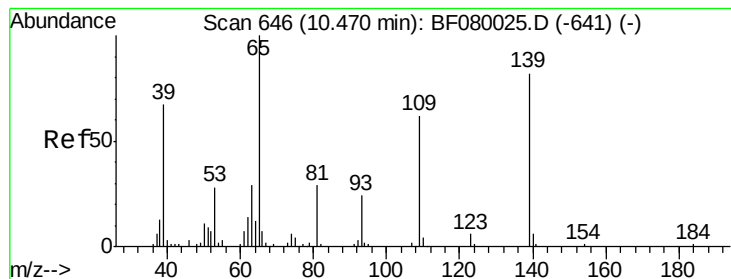
#54
Dibenzofuran
Concen: 15.67 ng
RT: 10.60 min Scan# 657
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Tgt Ion:168 Resp: 154998
Ion Ratio Lower Upper
168 100
139 37.8 24.2 36.2#
169 13.3 10.6 15.8



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 12.56 ng

RT: 10.47 min Scan# 646

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2015-02

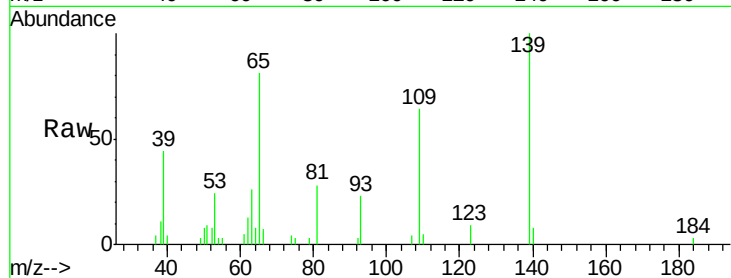
Tgt Ion:139 Resp: 18052

Ion Ratio Lower Upper

139 100

109 64.5 12.7 52.7#

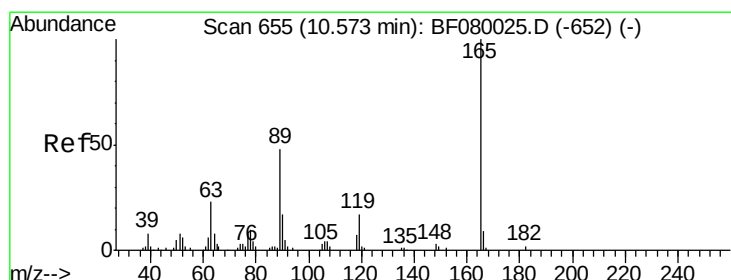
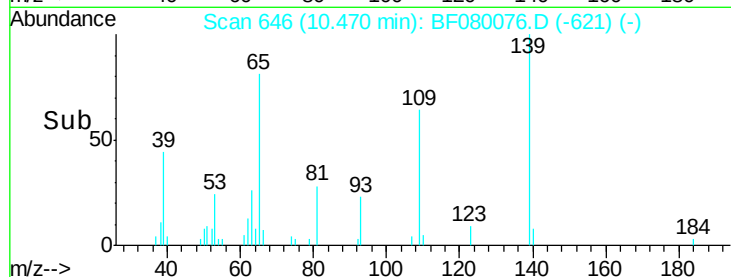
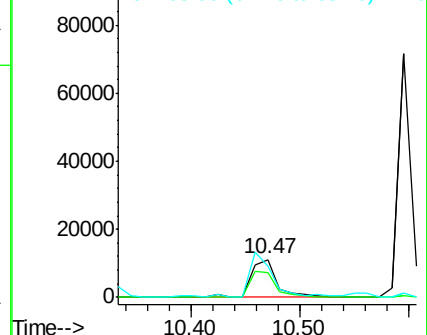
65 81.4 45.9 85.9



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 14.57 ng

RT: 10.56 min Scan# 654

Delta R.T. -0.01 min

Lab File: BF080076.D

Acq: 20 Jun 2015 2:38

Tgt Ion:165 Resp: 28821

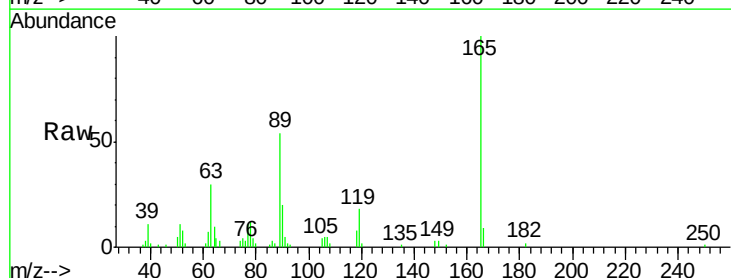
Ion Ratio Lower Upper

165 100

63 30.2 29.8 44.6

89 54.2 44.5 66.7

182 2.4 3.0 4.4#

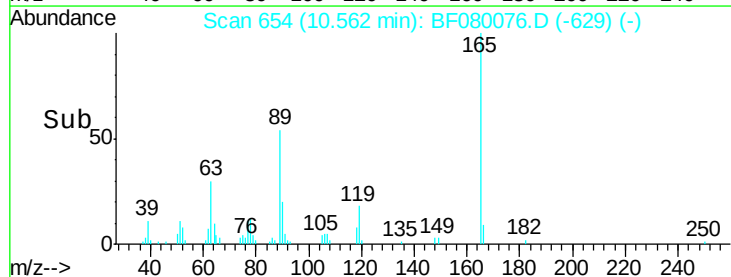
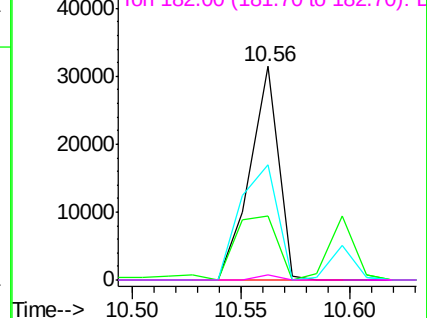


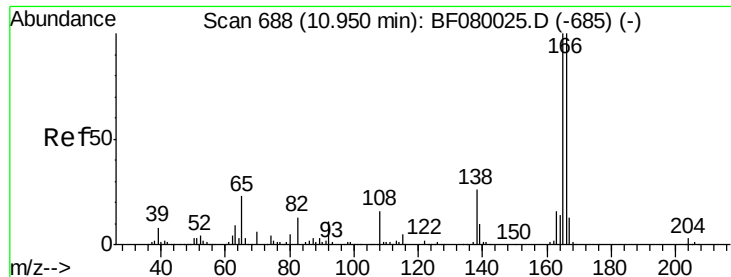
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

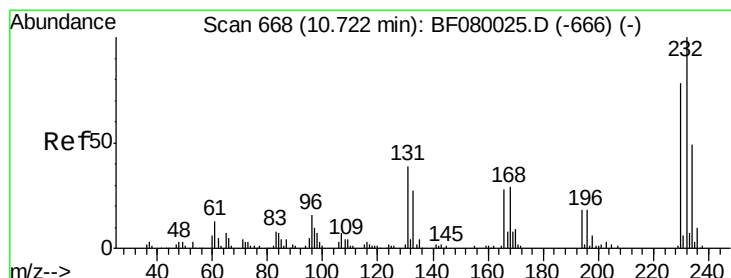
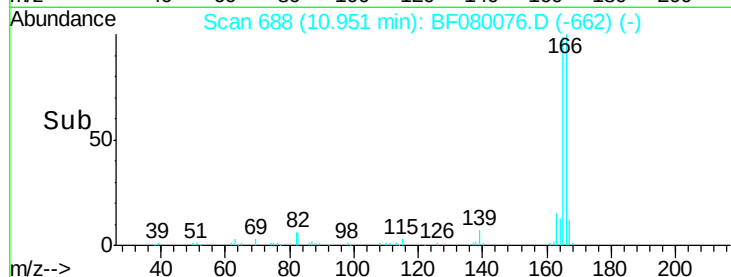
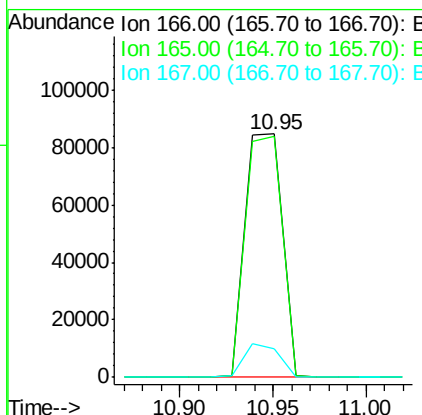
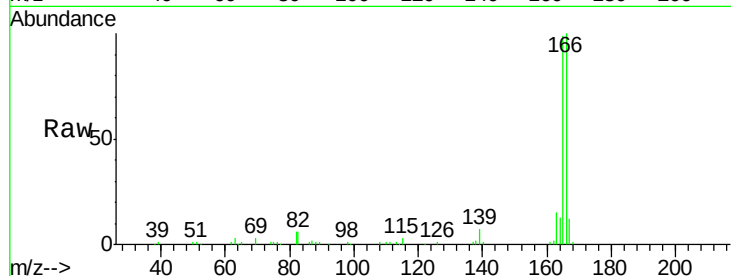




#57
 Fluorene
 Concen: 14.87 ng
 RT: 10.95 min Scan# 688
 Delta R.T. 0.00 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

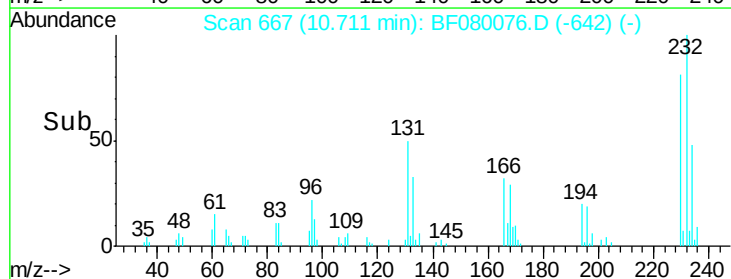
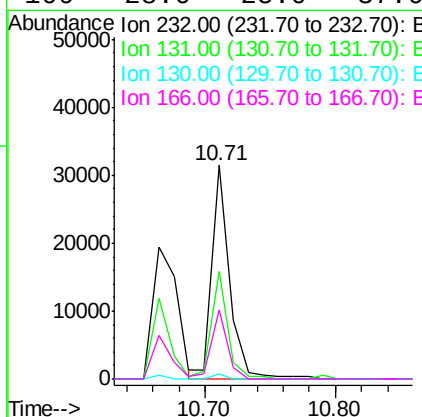
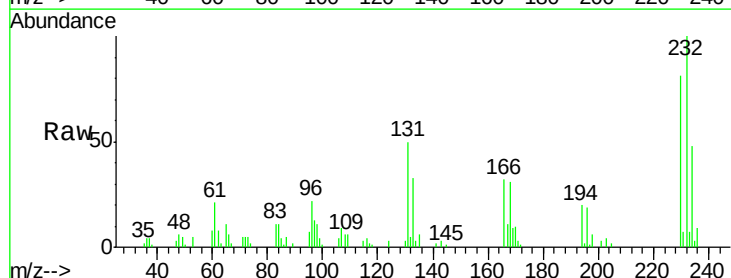
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:166 Resp: 116699
 Ion Ratio Lower Upper
 166 100
 165 98.8 72.6 109.0
 167 11.9 10.6 16.0



#58
 2,3,4,6-Tetrachlorophenol
 Concen: 15.19 ng
 RT: 10.71 min Scan# 667
 Delta R.T. -0.01 min
 Lab File: BF080076.D
 Acq: 20 Jun 2015 2:38

Tgt Ion:232 Resp: 30247
 Ion Ratio Lower Upper
 232 100
 131 45.5 38.5 57.7
 130 1.8 1.8 2.6
 166 28.6 25.0 37.6



Ref

#59
Diethylphthalate
Concen: 16.41 ng
RT: 10.79 min Scan# 674
Delta R.T. -0.01 min
Lab File: BF080076.D
Acq: 20 Jun 2015 2:38

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2015-02

Raw

Tgt Ion:	149	Resp:	128509
Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.5	26.3
150	12.4	9.4	14.2

Sub