

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032217\
 Data File : BF093840.D
 Acq On : 22 Mar 2017 18:56
 Operator : SJ/MA
 Sample : I2296-01
 Misc : LOD 1 PPB
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

Quant Time: Mar 23 12:07:50 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 22 17:41:33 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	190700	20.00	ng	0.00
21) Naphthalene-d8	7.49	136	780000	20.00	ng	0.00
38) Acenaphthene-d10	9.63	164	346469	20.00	ng	0.00
63) Phenanthrene-d10	11.46	188	616783	20.00	ng	0.00
75) Chrysene-d12	14.71	240	524018	20.00	ng	0.00
86) Perylene-d12	16.34	264	416014	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1347755	119.37	ng	0.00
7) Phenol-d6	5.57	99	1663457	119.09	ng	0.00
23) Nitrobenzene-d5	6.63	82	1173149	85.83	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	353415	129.08	ng	0.00
44) 2-Fluorobiphenyl	8.82	172	2032103	89.46	ng	0.00
78) Terphenyl-d14	13.44	244	1691683	72.36	ng	0.00

Target Compounds				Qvalue		
6) Aniline	5.60	93	22230	1.14	ng	98
8) 2-Chlorophenol	5.74	128	15118	1.22	ng	95
9) Benzaldehyde	5.48	77	10936	1.16	ng	97
10) Phenol	5.58	94	17447	1.10	ng	89
11) bis(2-Chloroethyl)ether	5.69	93	14549	1.17	ng	97
12) 1,3-Dichlorobenzene	5.92	146	16339	1.17	ng	92
13) 1,4-Dichlorobenzene	6.00	146	16982	1.20	ng	97
14) 1,2-Dichlorobenzene	6.18	146	15993m	1.23	ng	
15) Benzyl Alcohol	6.17	79	28496	2.79	ng	# 32
16) 2,2'-oxybis(1-Chloropropan	6.30	45	21733	1.14	ng	93
18) Hexachloroethane	6.58	117	5473	1.10	ng	# 84
24) Nitrobenzene	6.65	77	19007	1.41	ng	92
31) Naphthalene	7.52	128	45356	1.21	ng	98
34) Hexachlorobutadiene	7.67	225	6161	1.13	ng	97
37) 2-Methylnaphthalene	8.36	142	29484	1.18	ng	98
39) 1,2,4,5-Tetrachlorobenzene	8.56	216	12553	1.32	ng	96
45) 1,1'-Biphenyl	8.93	154	40155	1.44	ng	98
46) 2-Chloronaphthalene	8.95	162	27103	1.24	ng	# 91
47) 2-Nitroaniline	9.06	65	5934	0.91	ng	92
48) Acenaphthylene	9.46	152	42978	1.18	ng	98
49) Dimethylphthalate	9.30	163	29453	1.20	ng	98
50) 2,6-Dinitrotoluene	9.37	165	5372	0.95	ng	# 86
51) Acenaphthene	9.67	154	26323	1.24	ng	97
54) Dibenzofuran	9.88	168	36869	1.28	ng	99
57) Fluorene	10.30	166	30654	1.28	ng	96
58) 2,3,4,6-Tetrachlorophenol	10.03	232	4653	0.93	ng	# 97
59) Diethylphthalate	10.18	149	28427	1.17	ng	98
62) Azobenzene	10.51	77	25450	1.11	ng	98
65) n-Nitrosodiphenylamine	10.46	169	24630	1.15	ng	98
66) 4-Bromophenyl-phenylether	10.91	248	6897	1.14	ng	95
67) Hexachlorobenzene	10.98	284	7611	1.24	ng	# 72
68) Atrazine	11.12	200	6673	1.04	ng	92
70) Phenanthrene	11.48	178	42503	1.24	ng	98
71) Anthracene	11.55	178	43082	1.22	ng	97

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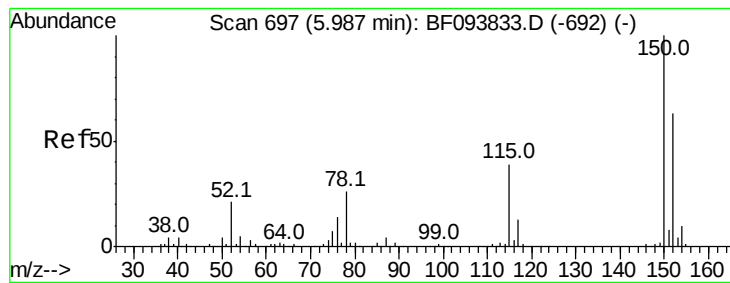
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

72) Carbazole	11.74	167	40733	1.12	nq	99
73) Di-n-butylphthalate	12.20	149	37327	0.99	nq	99
74) Fluoranthene	12.94	202	38739	1.10	nq	97
77) Pyrene	13.22	202	42359	1.11	nq	98
79) Butylbenzylphthalate	14.04	149	12084	0.75	nq	# 78
80) Benzo(a)anthracene	14.69	228	34086	1.12	nq	97
82) Chrysene	14.73	228	33587	1.18	nq	95
83) Bis(2-ethylhexyl)phthalate	14.76	149	20475	0.93	nq	# 98
84) Di-n-octyl phthalate	15.51	149	26150	0.71	nq	# 95
85) Indeno(1,2,3-cd)pyrene	17.73	276	21934	0.89	nq	94
87) Benzo(b)fluoranthene	15.92	252	27439	1.08	nq	97
88) Benzo(k)fluoranthene	15.95	252	27331	1.09	nq	# 95
89) Benzo(a)pyrene	16.28	252	24954	1.06	nq	98
90) Dibenzo(a,h)anthracene	17.75	278	19286	0.97	nq	95
91) Benzo(a,h,i)perylene	18.13	276	19061	0.95	nq	# 90

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

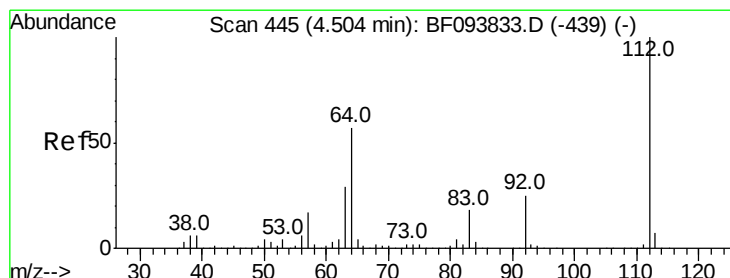
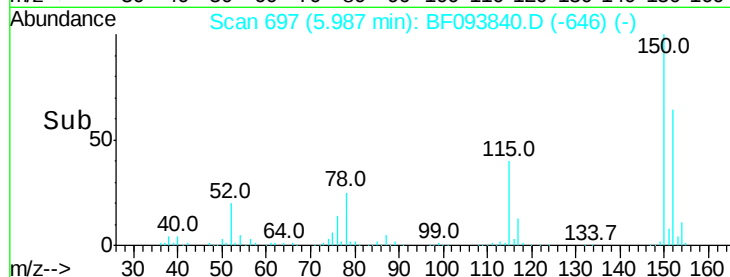
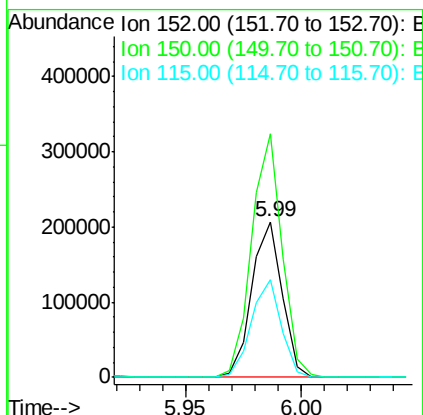
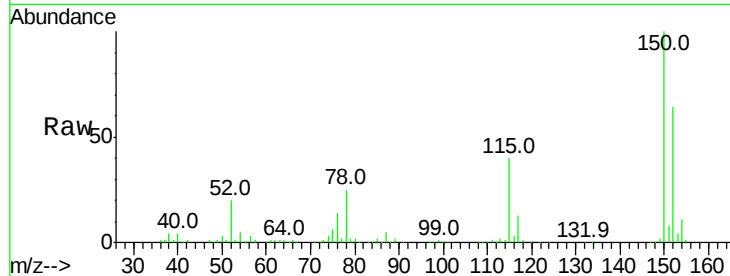


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.99 min Scan# 697
Delta R.T. 0.00 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

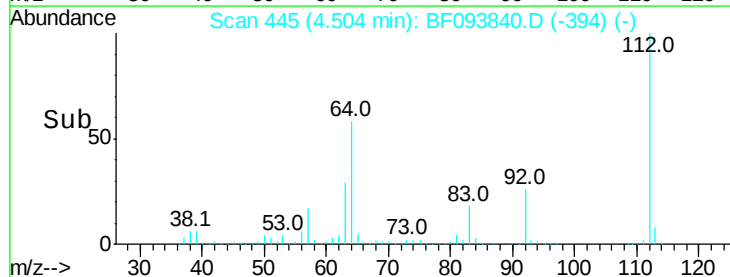
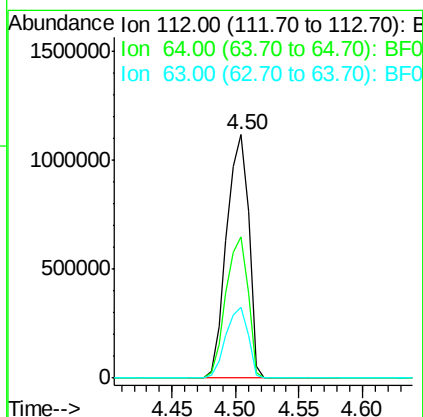
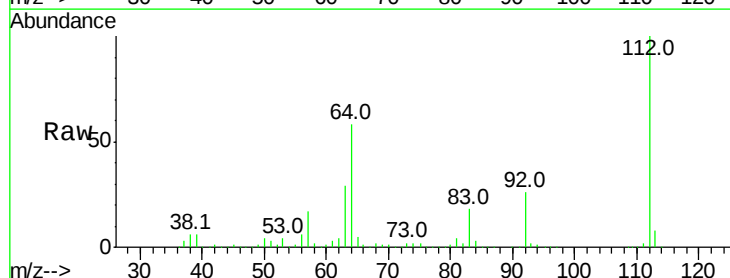
Tot Ion:152 Resp: 190700
Ion Ratio Lower Upper
152 100
150 156.4 126.2 189.2
115 62.7 52.2 78.2

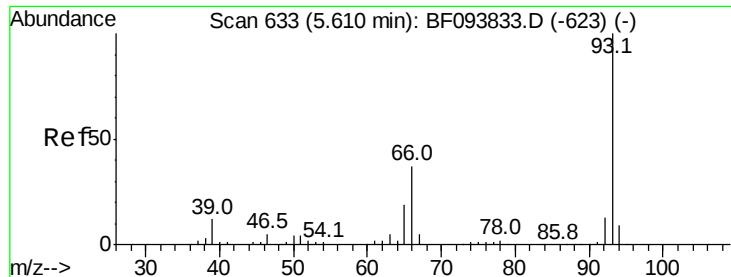


#5

2-Fluorophenol
Concen: 119.37 ng
RT: 4.50 min Scan# 445
Delta R.T. 0.00 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion:112 Resp: 1347755
Ion Ratio Lower Upper
112 100
64 57.8 46.0 69.0
63 29.0 23.4 35.0





#6

Aniline

Concen: 1.14 ng

RT: 5.60 min Scan# 632

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

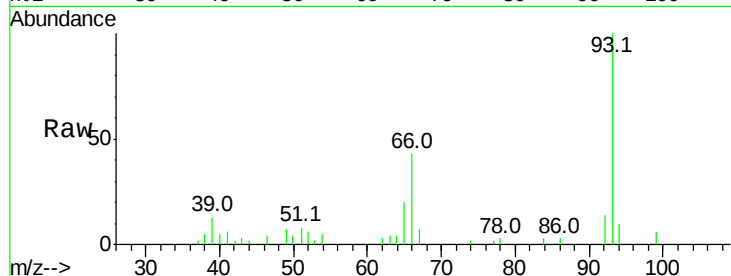
Tot Ion: 93 Resp: 22230

Ion Ratio Lower Upper

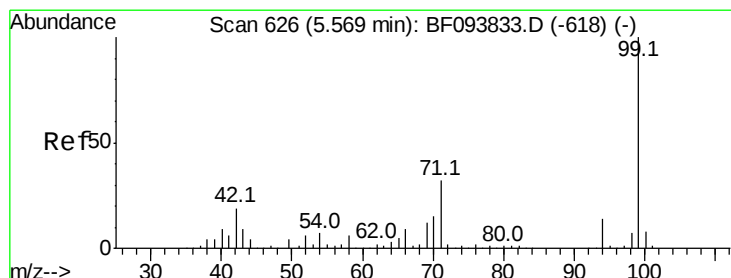
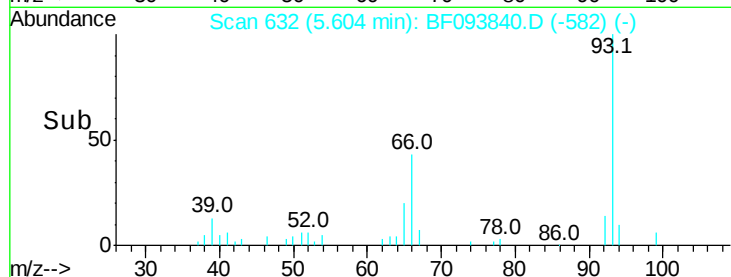
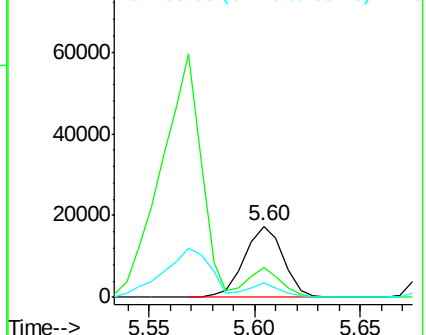
93 100

66 42.8 32.9 49.3

65 19.8 16.0 24.0



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: 119.09 ng

RT: 5.57 min Scan# 626

Delta R.T. 0.00 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

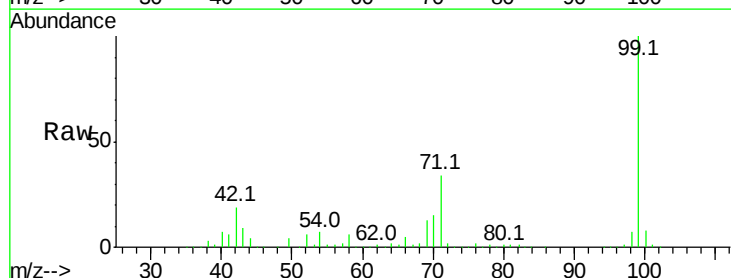
Tgt Ion: 99 Resp: 1663457

Ion Ratio Lower Upper

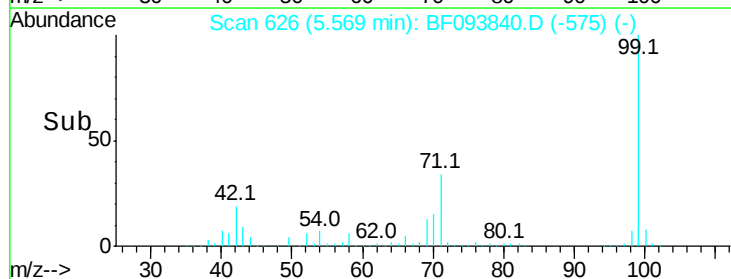
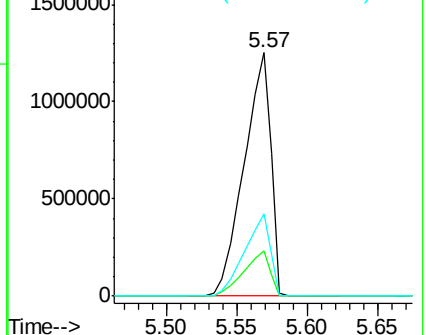
99 100

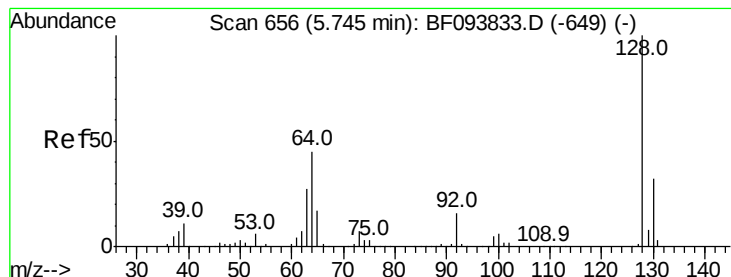
42 18.8 13.5 20.3

71 33.7 24.5 36.7



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: 1.22 ng

RT: 5.74 min Scan# 655

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

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ClientSampleId :

LOD-SOIL-01-QT2-2017

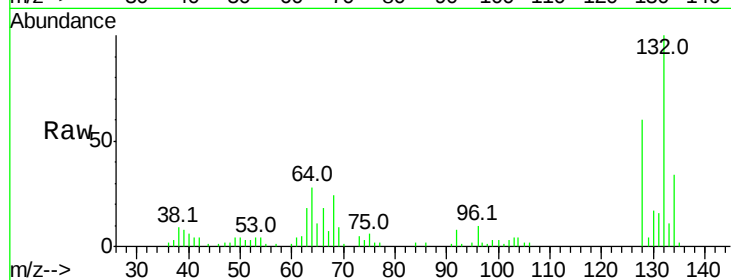
Tot Ion:128 Resp: 15118

Ion Ratio Lower Upper

128 100

130 28.0 12.9 52.9

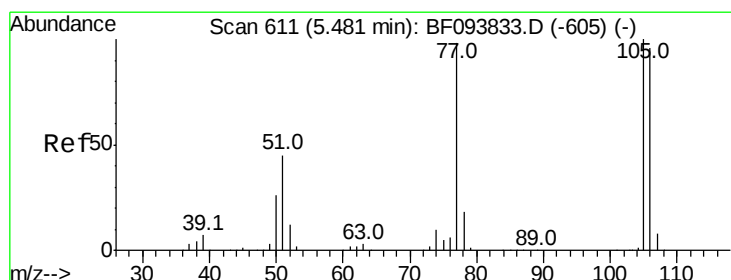
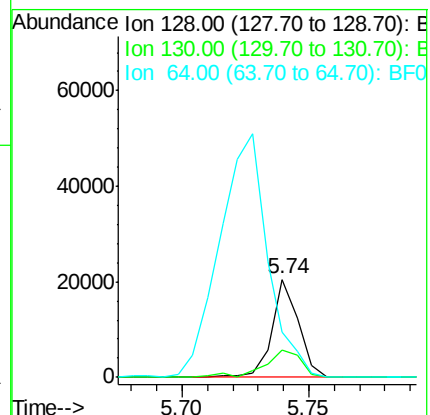
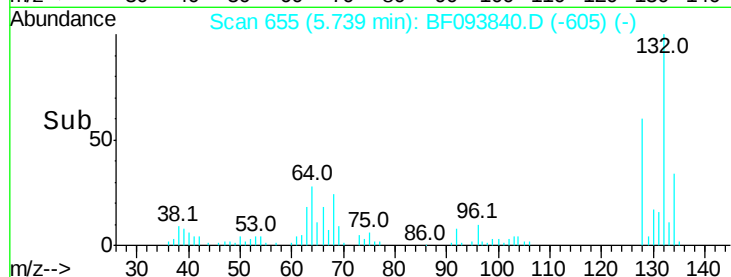
64 46.5 28.4 68.4



Abundance Ion 128.00 (127.70 to 128.70): B

Ion 130.00 (129.70 to 130.70): B

Ion 64.00 (63.70 to 64.70): B



#9

Benzaldehyde

Concen: 1.16 ng

RT: 5.48 min Scan# 611

Delta R.T. 0.00 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

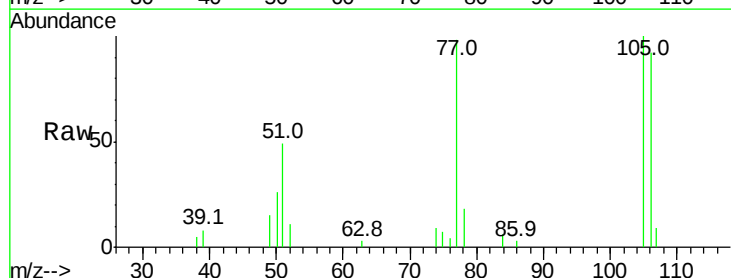
Tgt Ion: 77 Resp: 10936

Ion Ratio Lower Upper

77 100

105 102.1 83.8 123.8

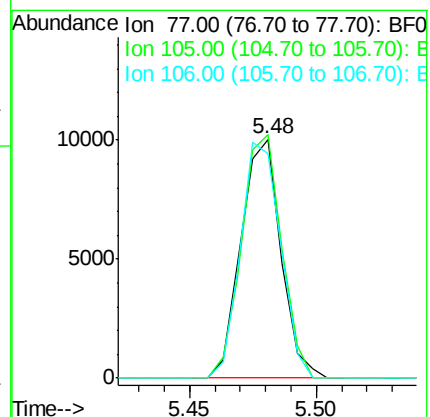
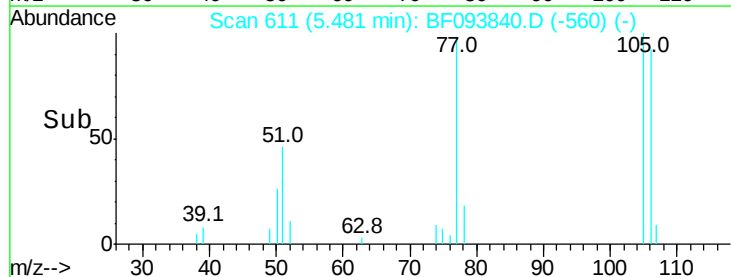
106 94.3 79.1 119.1

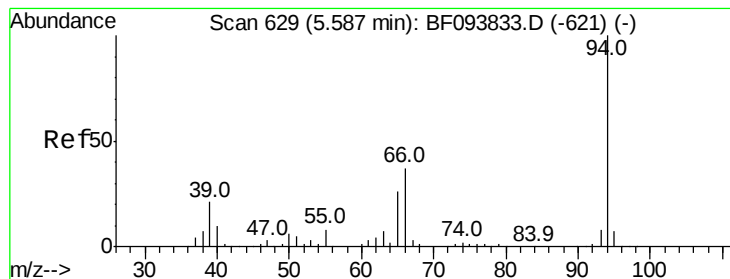


Abundance Ion 77.00 (76.70 to 77.70): B

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B





#10

Phenol

Concen: 1.10 ng

RT: 5.58 min Scan# 628

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

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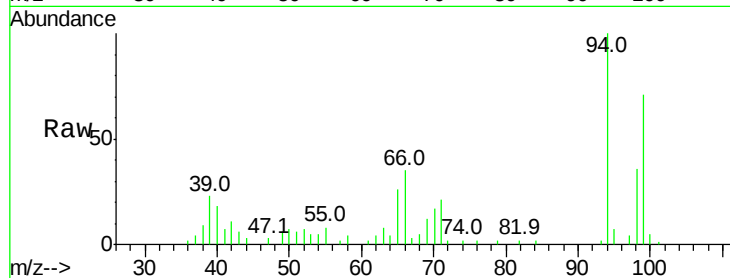
Tot Ion: 94 Resp: 17447

Ion Ratio Lower Upper

94 100

65 26.1 9.9 49.9

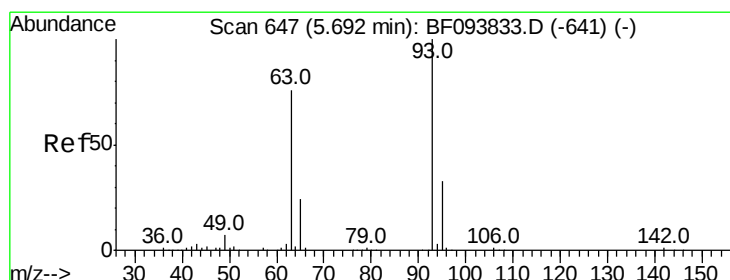
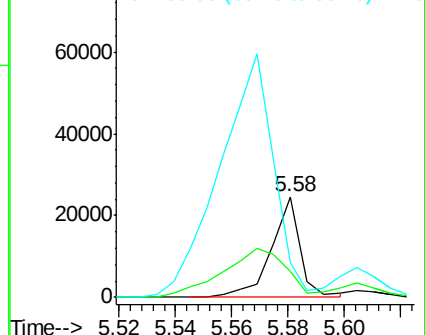
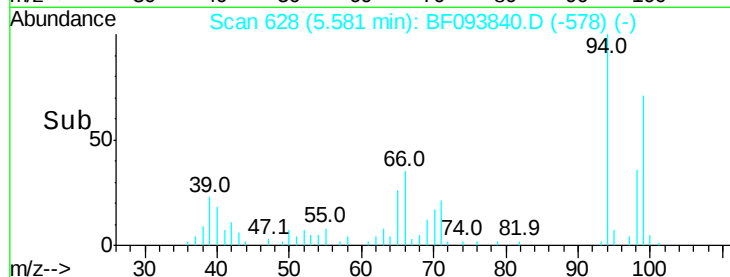
66 34.8 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#11

bis(2-Chloroethyl)ether

Concen: 1.17 ng

RT: 5.69 min Scan# 646

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

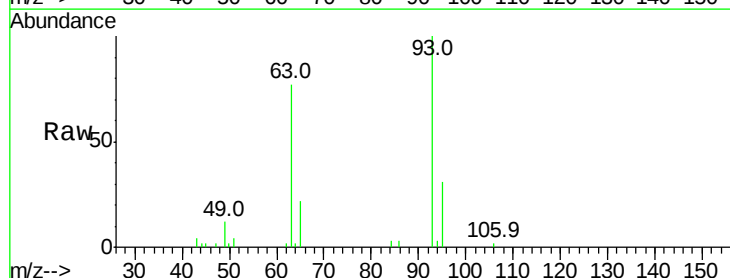
Tgt Ion: 93 Resp: 14549

Ion Ratio Lower Upper

93 100

63 76.8 59.2 99.2

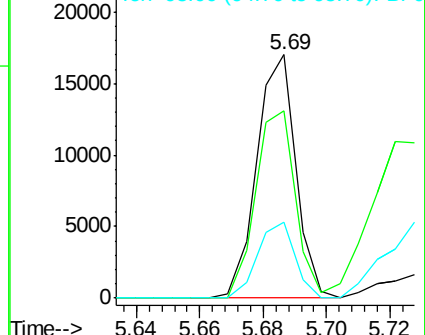
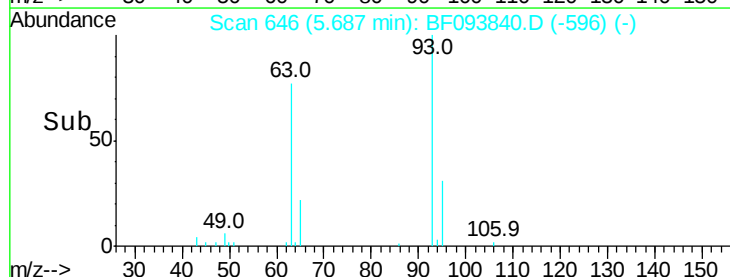
95 31.3 12.8 52.8

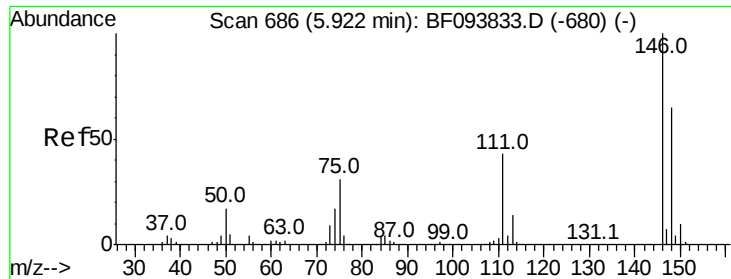


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0





#12

1,3-Dichlorobenzene

Concen: 1.17 ng

RT: 5.92 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

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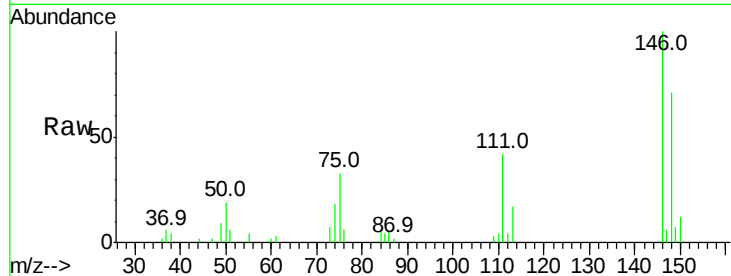
Tot Ion:146 Resp: 16339

Ion Ratio Lower Upper

146 100

148 70.8 51.8 77.6

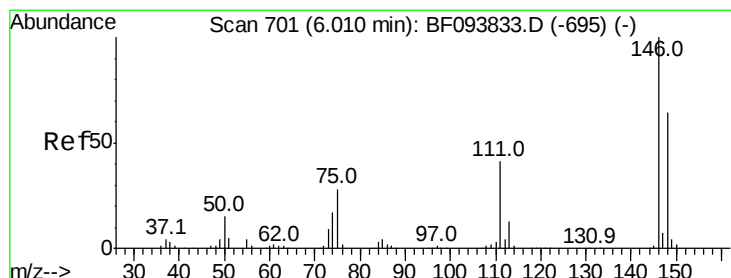
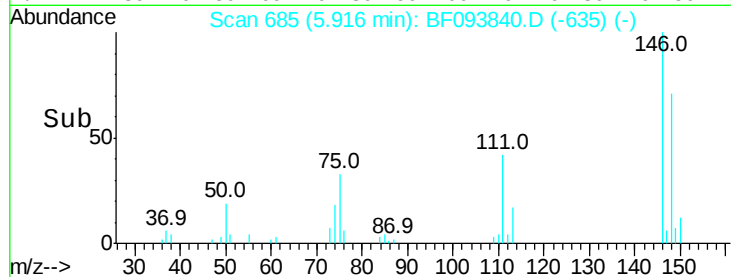
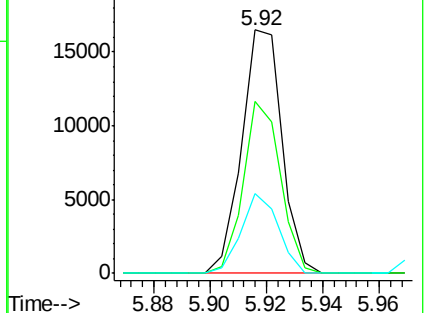
75 33.0 23.1 34.7



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0



#13

1,4-Dichlorobenzene

Concen: 1.20 ng

RT: 6.00 min Scan# 700

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

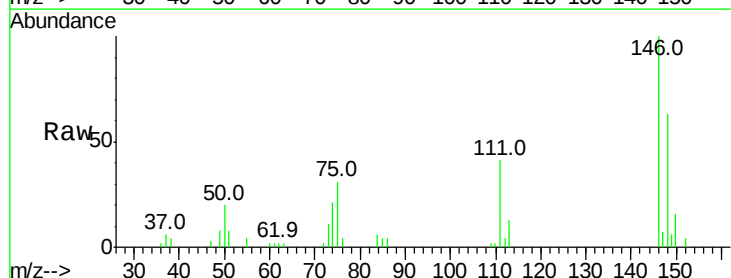
Tgt Ion:146 Resp: 16982

Ion Ratio Lower Upper

146 100

148 63.3 52.2 78.2

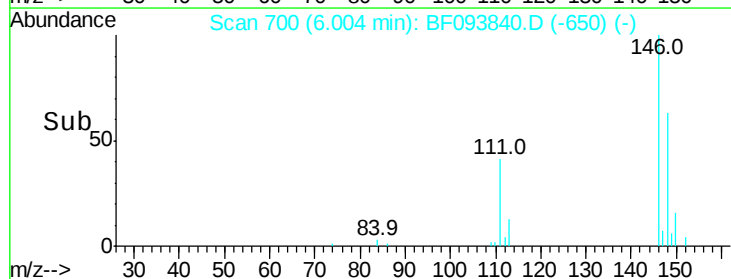
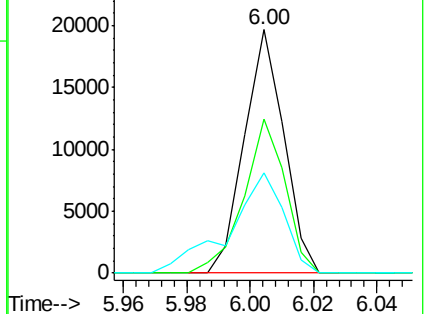
111 41.2 30.3 45.5

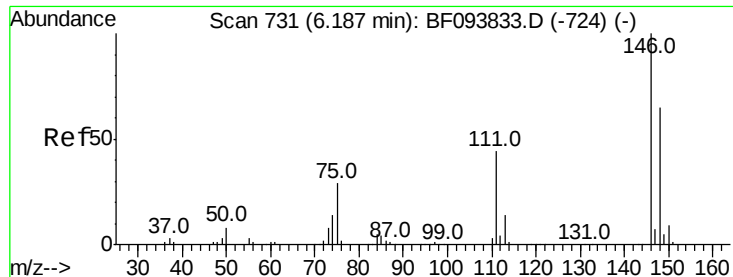


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 1.23 ng/mL

RT: 6.18 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

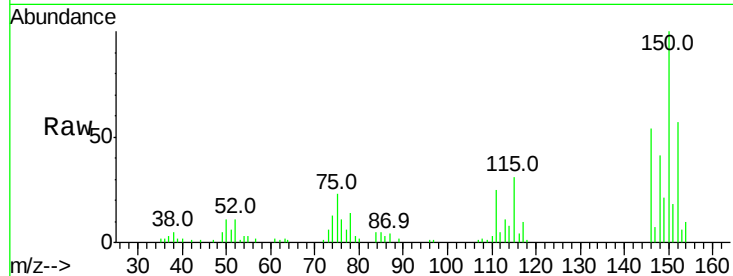
Tot Ion:146 Resp: 15993

Ion Ratio Lower Upper

146 100

148 75.9 50.4 75.6#

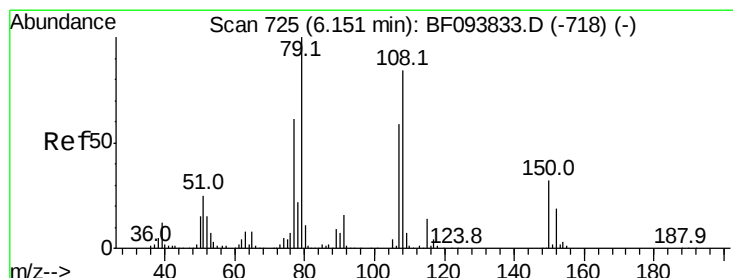
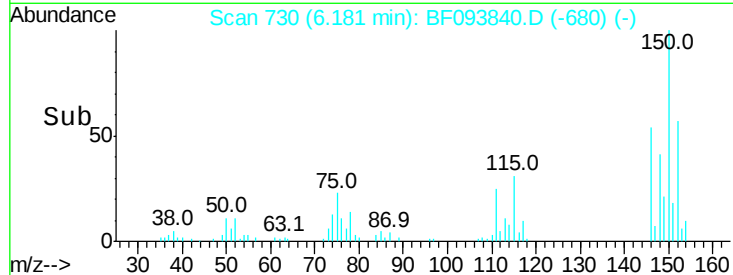
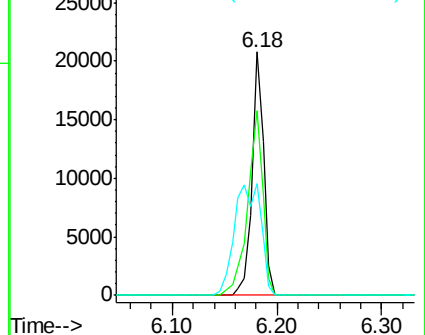
111 45.8 38.2 57.4



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: 2.79 ng/mL

RT: 6.17 min Scan# 728

Delta R.T. 0.02 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

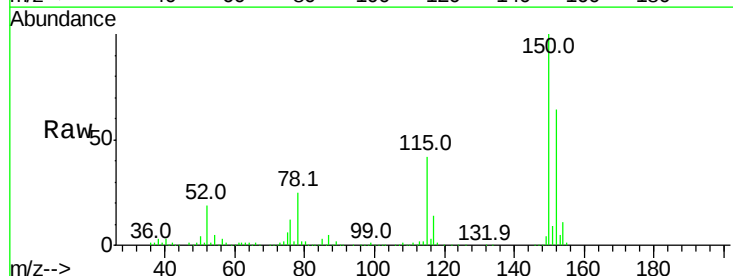
Tgt Ion: 79 Resp: 28496

Ion Ratio Lower Upper

79 100

108 35.5 63.4 95.0#

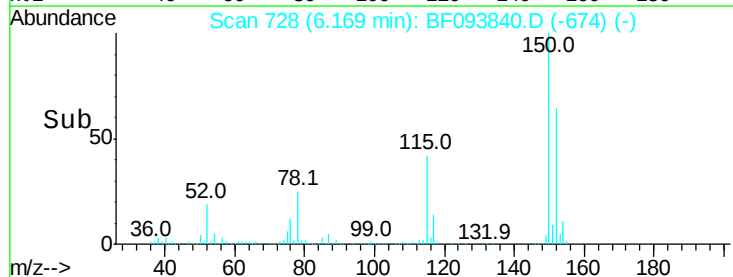
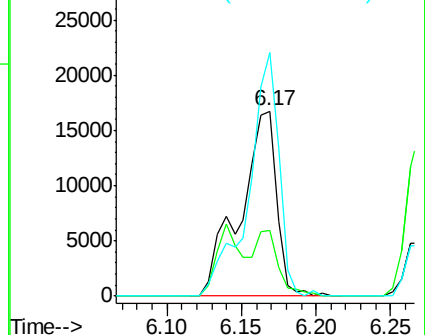
77 131.5 49.2 73.8#

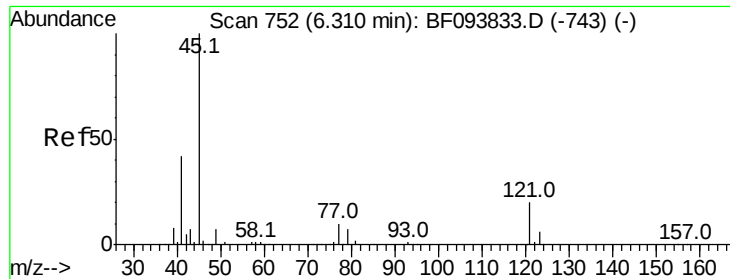


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

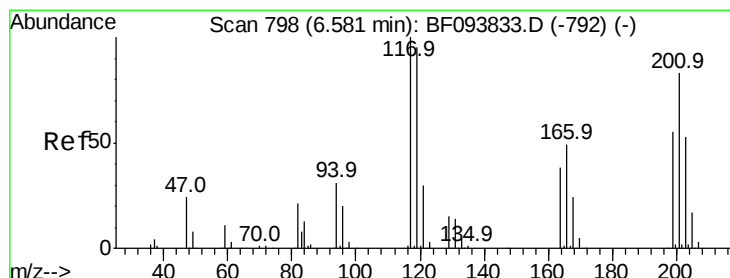
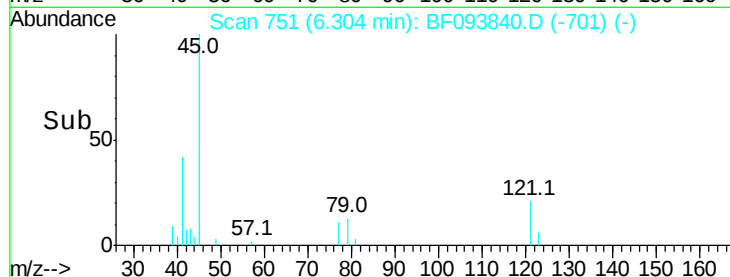
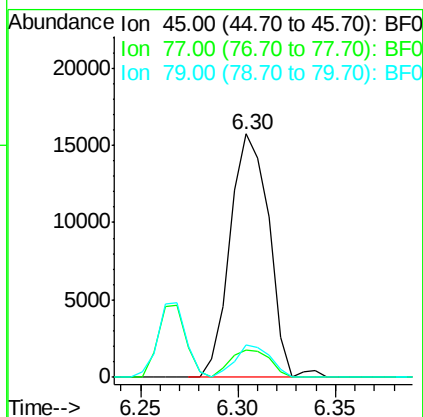
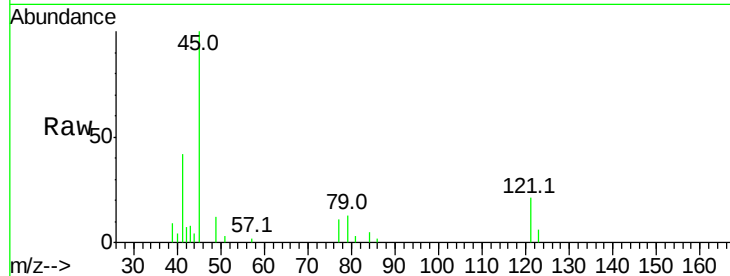




#16
2,2'-oxvbis(1-Chloropropane)
Concen: 1.14 ng
RT: 6.30 min Scan# 751
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

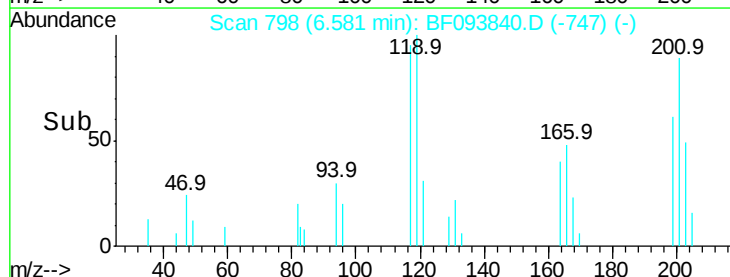
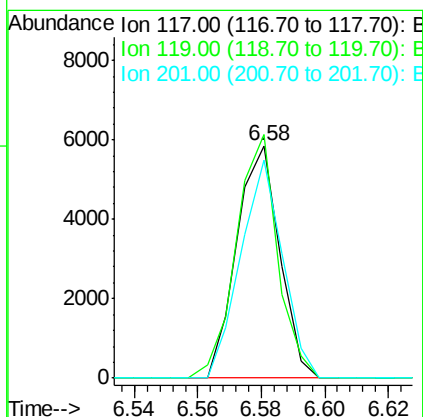
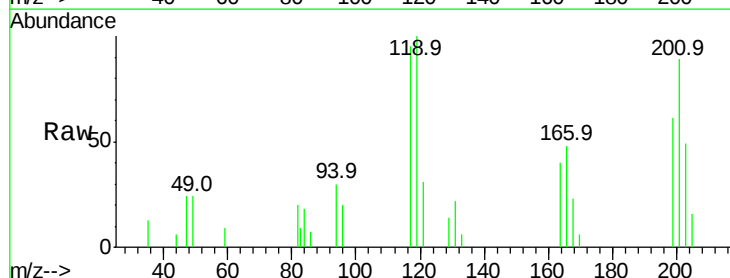
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

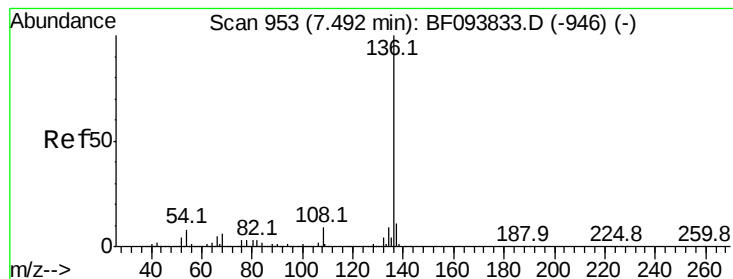
Tot Ion: 45 Resp: 21733
Ion Ratio Lower Upper
45 100
77 11.0 0.0 33.2
79 13.3 0.0 30.0



#18
Hexachloroethane
Concen: 1.10 ng
RT: 6.58 min Scan# 798
Delta R.T. 0.00 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion: 117 Resp: 5473
Ion Ratio Lower Upper
117 100
119 104.9 77.4 116.0
201 93.7 94.6 141.8#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.49 min Scan# 952

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

Tot Ion:136 Resp: 780000

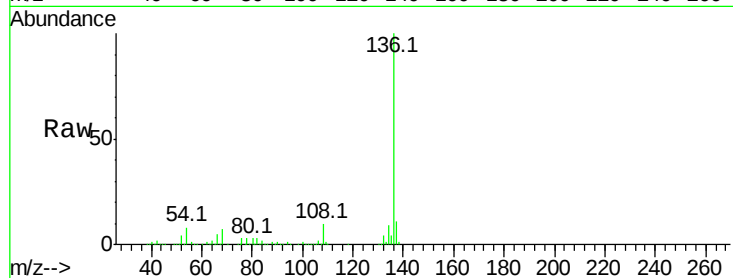
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 8.1 4.9 7.3#

68 7.0 4.1 6.1#

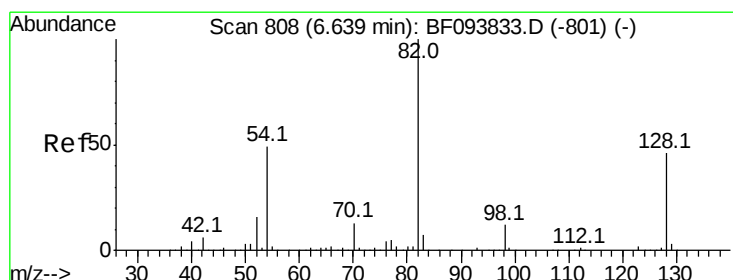
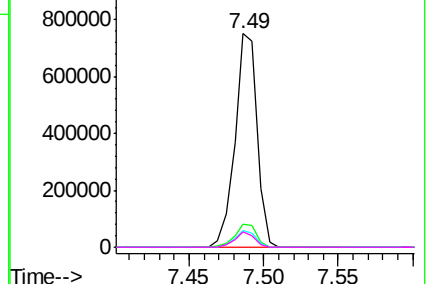
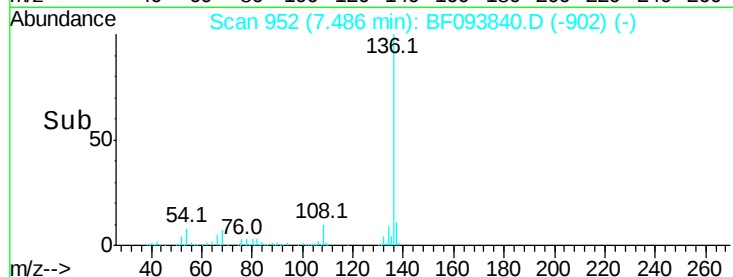


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 85.83 ng

RT: 6.63 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

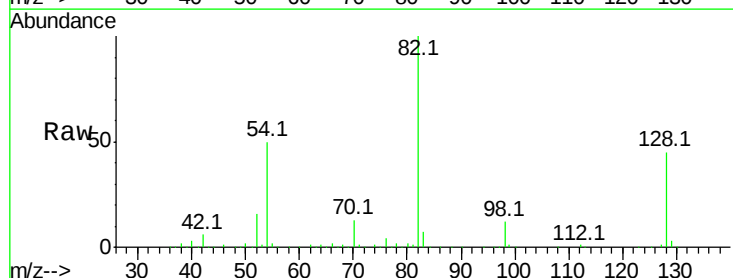
Tgt Ion: 82 Resp: 1173149

Ion Ratio Lower Upper

82 100

128 45.2 34.0 51.0

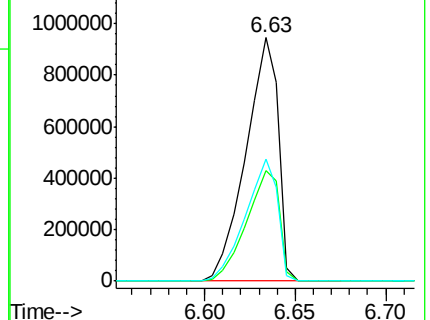
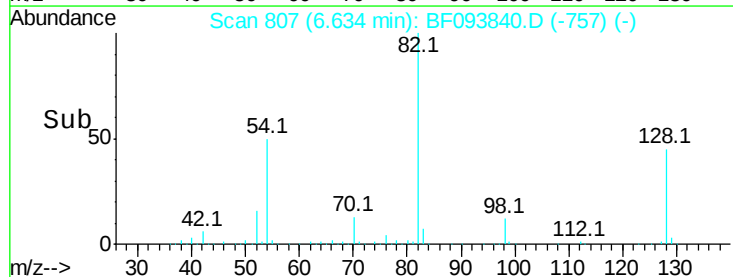
54 50.0 42.2 63.2

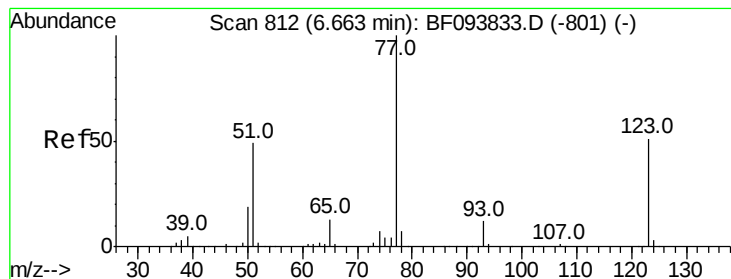


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#24

Nitrobenzene

Concen: 1.41 ng

RT: 6.65 min Scan# 810

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

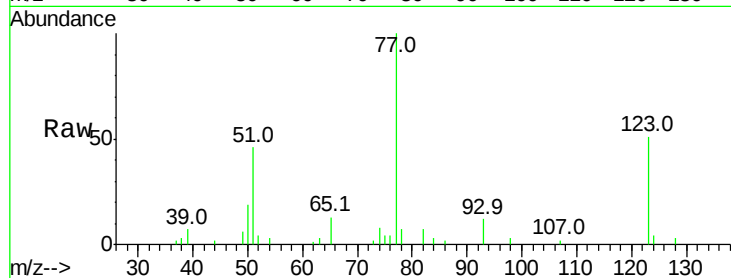
Tot Ion: 77 Resp: 19007

Ion Ratio Lower Upper

77 100

123 51.4 35.8 53.8

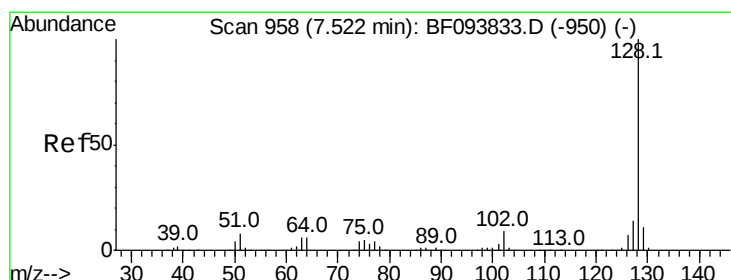
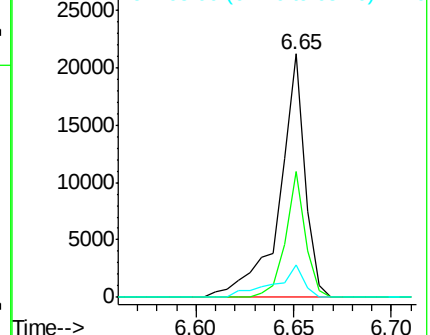
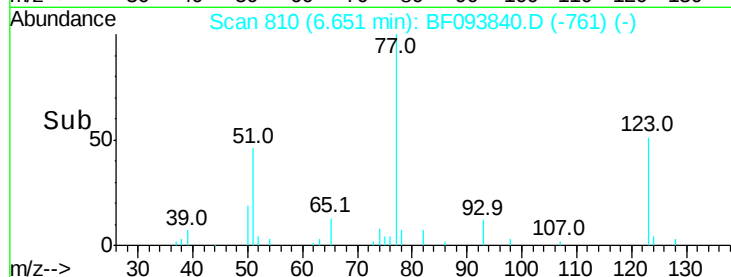
65 13.2 10.6 15.8



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



#31

Naphthalene

Concen: 1.21 ng

RT: 7.52 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

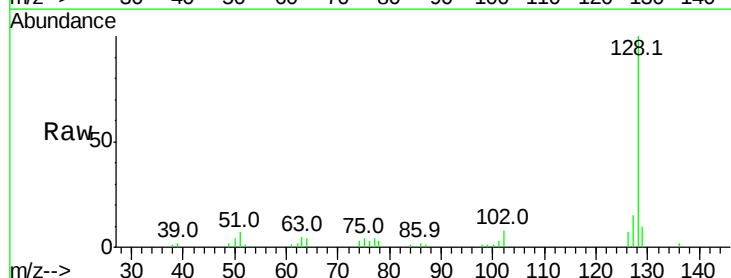
Tgt Ion:128 Resp: 45356

Ion Ratio Lower Upper

128 100

129 10.5 9.0 13.6

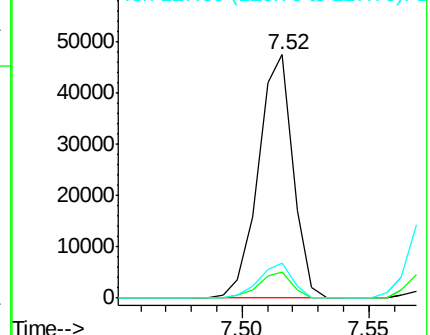
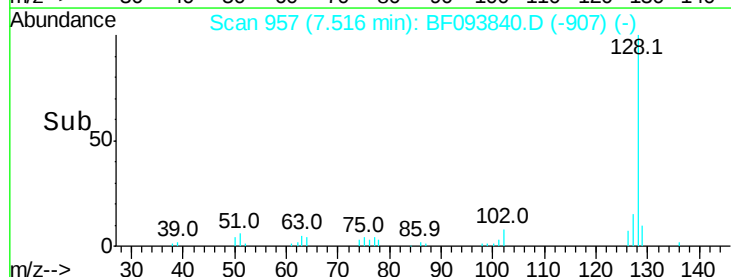
127 14.6 10.8 16.2

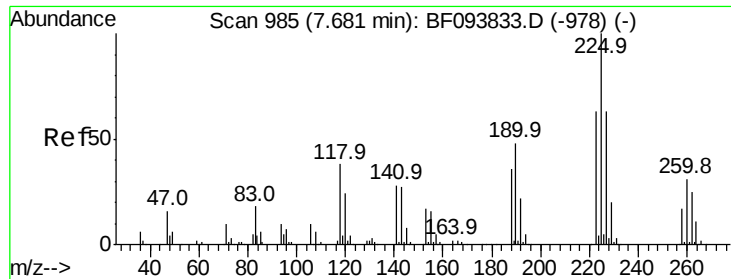


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#34

Hexachlorobutadiene

Concen: 1.13 ng

RT: 7.67 min Scan# 984

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

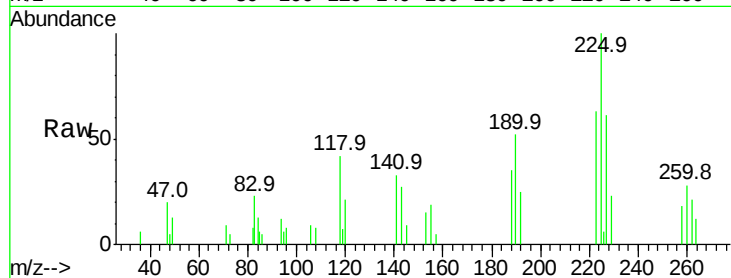
Tot Ion:225 Resp: 6161

Ion Ratio Lower Upper

225 100

223 63.2 48.8 73.2

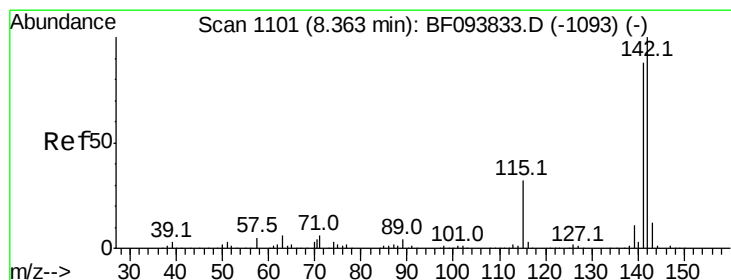
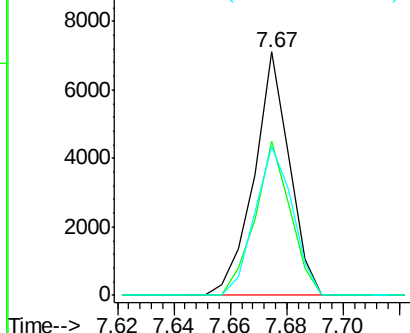
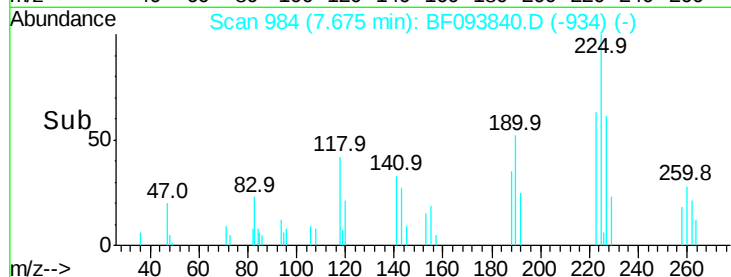
227 61.1 51.1 76.7



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



#37

2-Methylnaphthalene

Concen: 1.18 ng

RT: 8.36 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

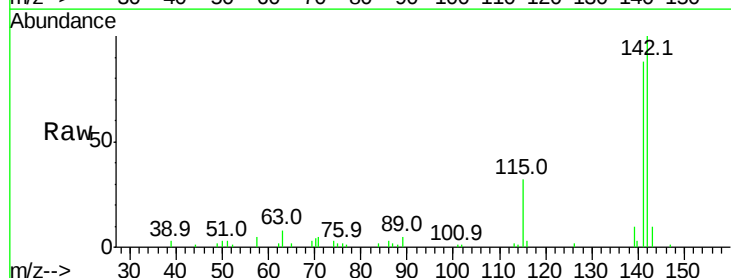
Tgt Ion:142 Resp: 29484

Ion Ratio Lower Upper

142 100

141 88.3 71.3 106.9

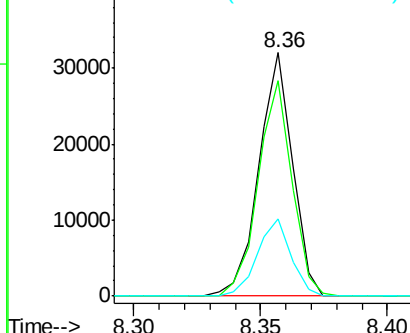
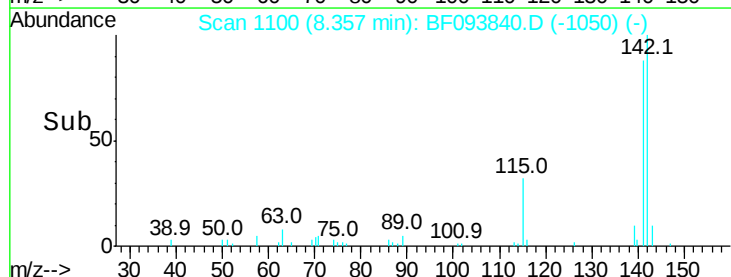
115 31.5 27.1 40.7

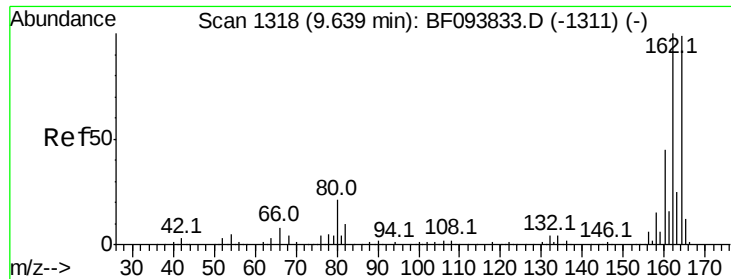


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

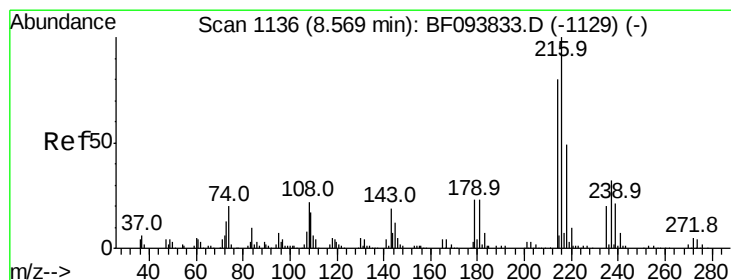
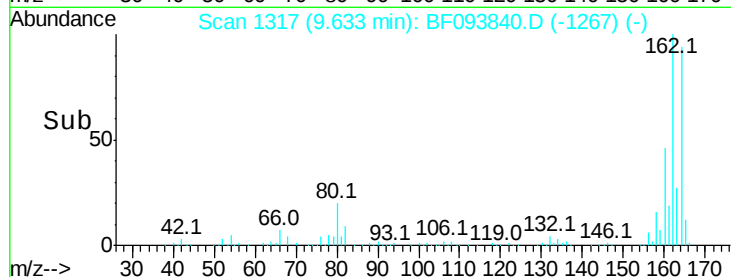
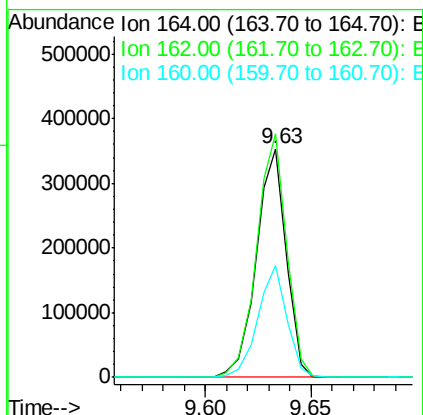
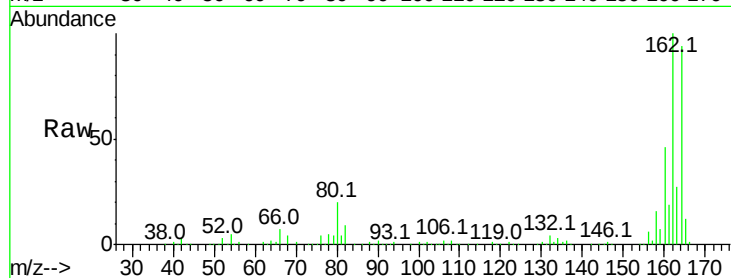




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.63 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

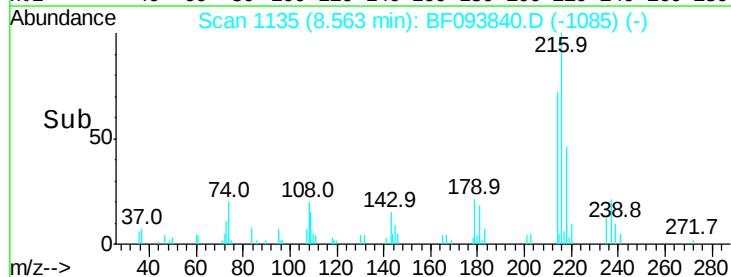
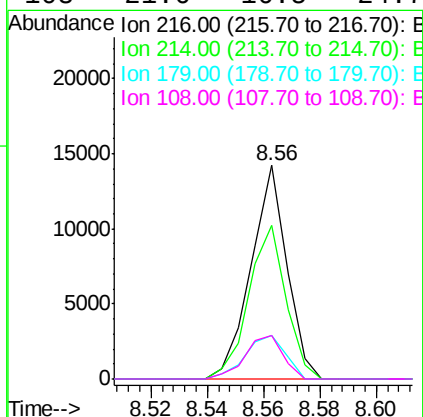
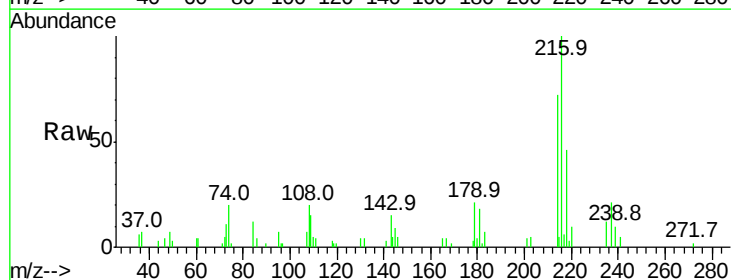
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

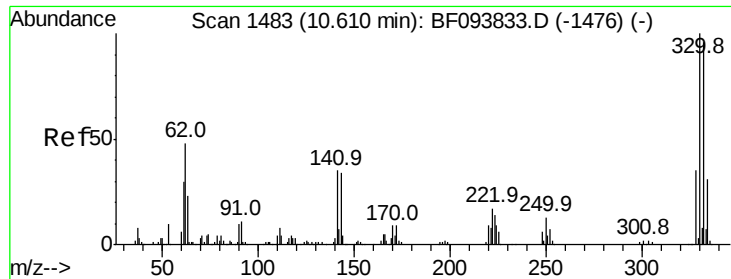
Tot Ion:164 Resp: 346469
Ion Ratio Lower Upper
164 100
162 106.5 82.6 123.8
160 49.0 36.2 54.2



#39
1,2,4,5-Tetrachlorobenzene
Concen: 1.32 ng
RT: 8.56 min Scan# 1135
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion:216 Resp: 12553
Ion Ratio Lower Upper
216 100
214 74.3 63.4 95.2
179 22.9 17.9 26.9
108 21.6 16.5 24.7

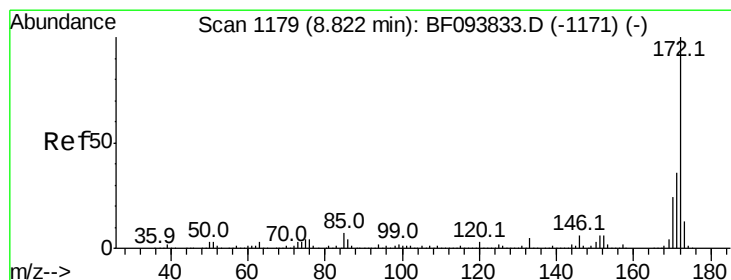
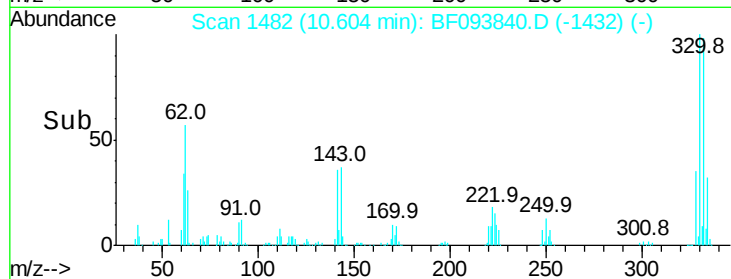
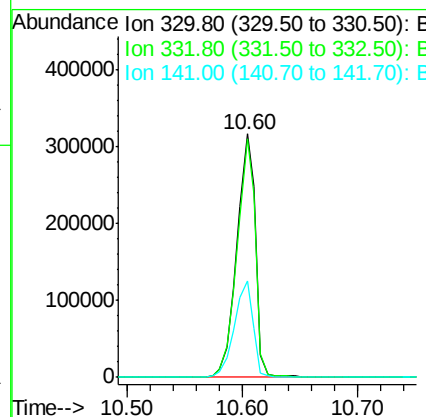
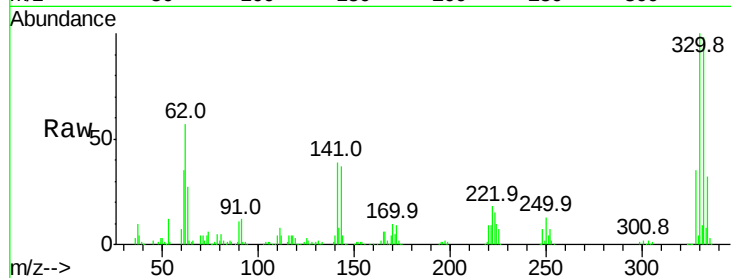




#41
 2,4,6-Tribromophenol
 Concen: 129.08 ng
 RT: 10.60 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

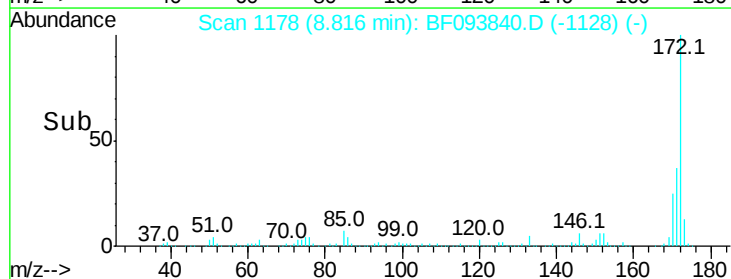
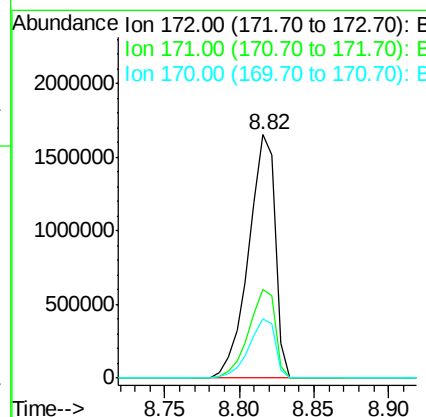
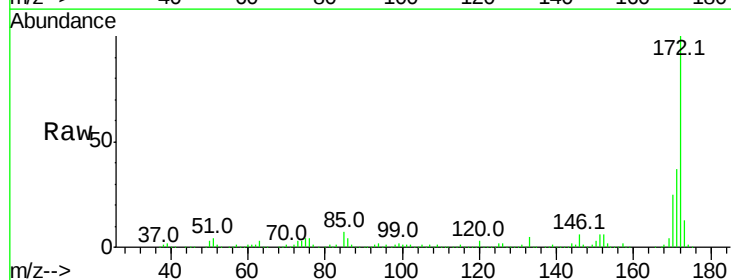
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

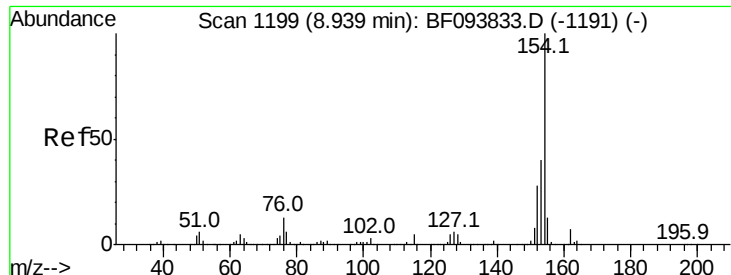
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.6	115.0
141	40.0	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 89.46 ng
 RT: 8.82 min Scan# 1178
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.6	44.4
170	24.5	19.8	29.8





#45

1,1'-Biphenyl

Concen: 1.44 ng

RT: 8.93 min Scan# 1197

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

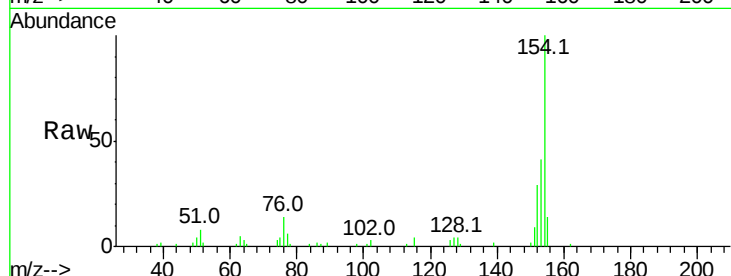
Tot Ion:154 Resp: 40155

Ion Ratio Lower Upper

154 100

153 41.5 21.2 61.2

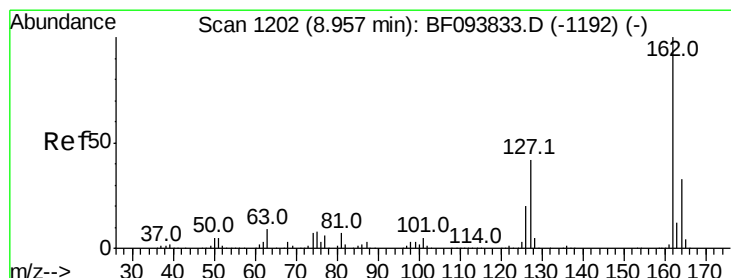
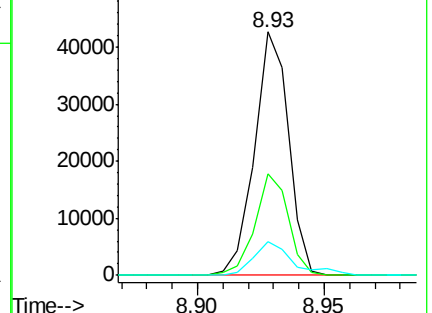
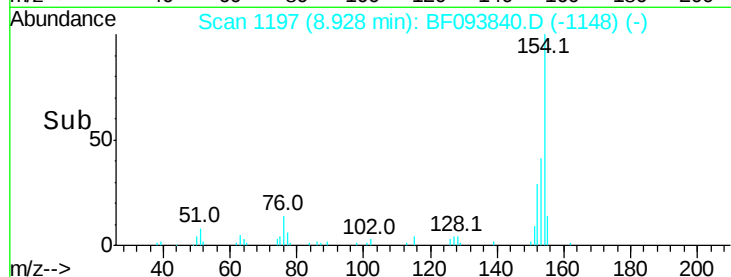
76 13.9 0.0 29.9



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): BF0



#46

2-Chloronaphthalene

Concen: 1.24 ng

RT: 8.95 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

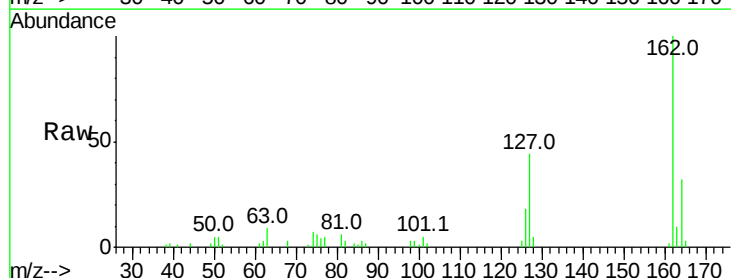
Tgt Ion:162 Resp: 27103

Ion Ratio Lower Upper

162 100

127 43.6 28.3 42.5#

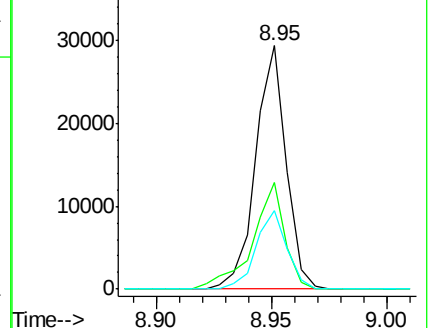
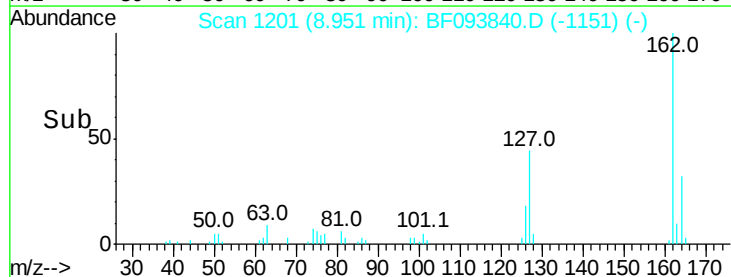
164 32.1 27.0 40.4

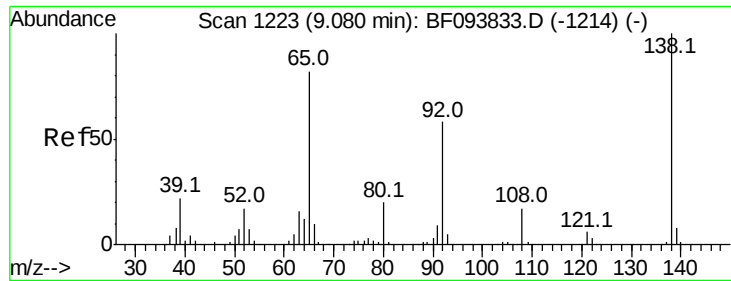


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

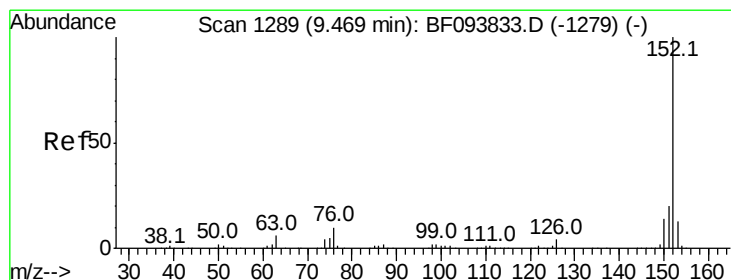
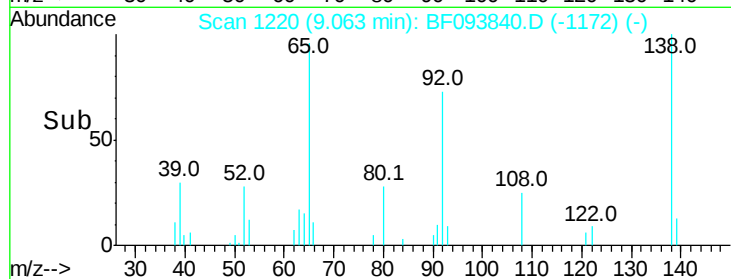
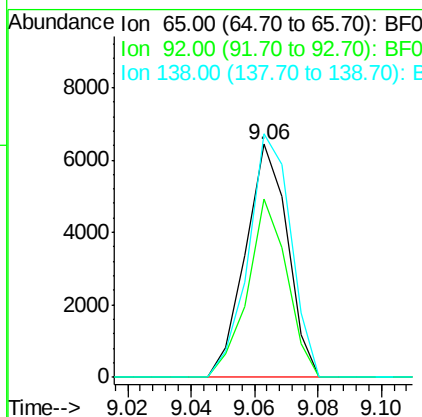
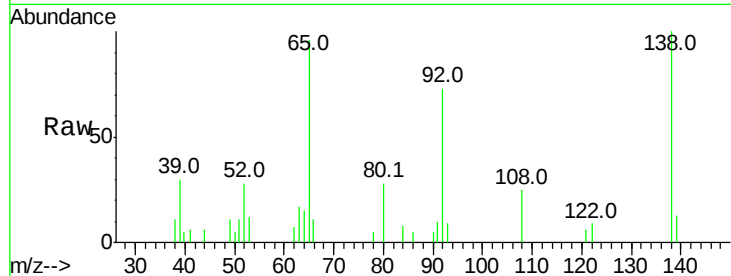




#47
2-Nitroaniline
Concen: 0.91 ng
RT: 9.06 min Scan# 1220
Delta R.T. -0.02 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

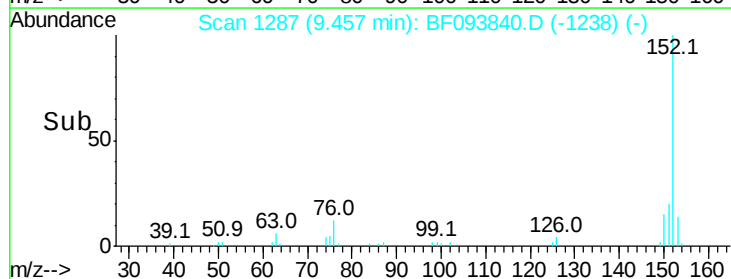
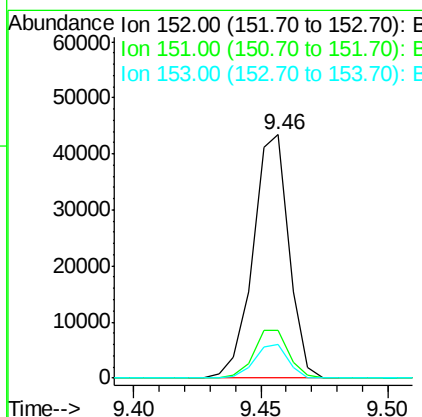
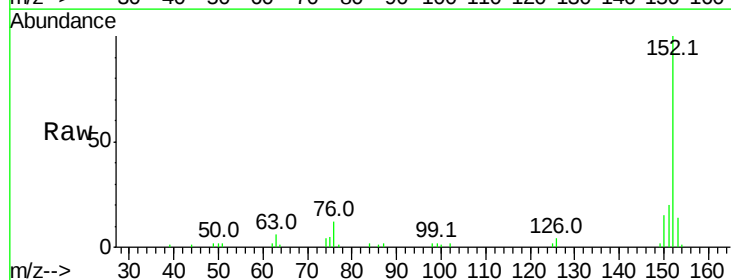
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

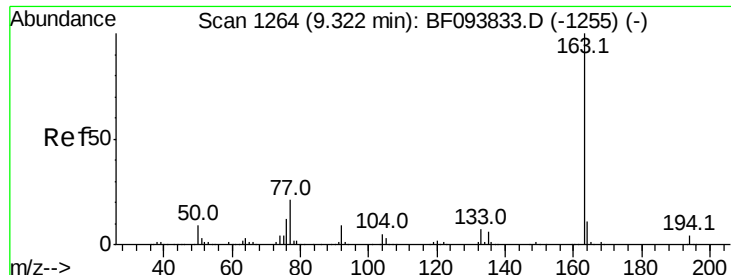
Tot Ion: 65 Resp: 5934
Ion Ratio Lower Upper
65 100
92 76.8 53.9 80.9
138 104.6 78.8 118.2



#48
Acenaphthylene
Concen: 1.18 ng
RT: 9.46 min Scan# 1287
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion: 152 Resp: 42978
Ion Ratio Lower Upper
152 100
151 19.7 16.8 25.2
153 13.9 10.8 16.2

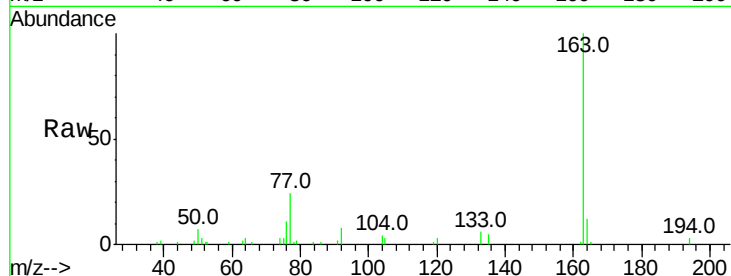




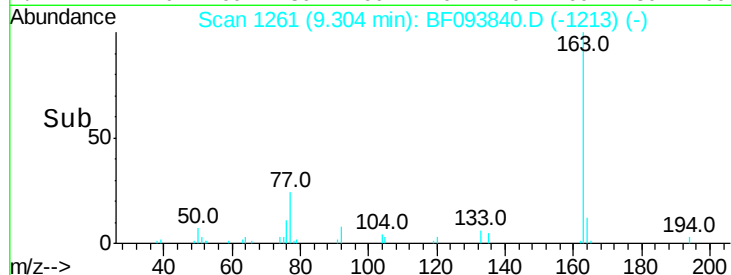
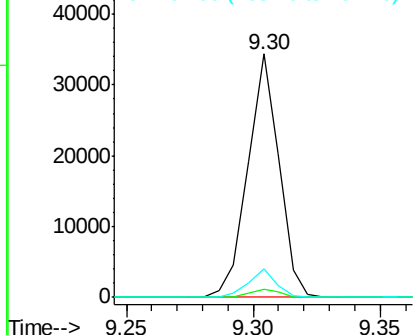
#49
Dimethylphthalate
Concen: 1.20 ng
RT: 9.30 min Scan# 1261
Delta R.T. -0.02 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tot Ion:163 Resp: 29453
Ion Ratio Lower Upper
163 100
194 3.2 2.6 4.0
164 11.6 8.4 12.6

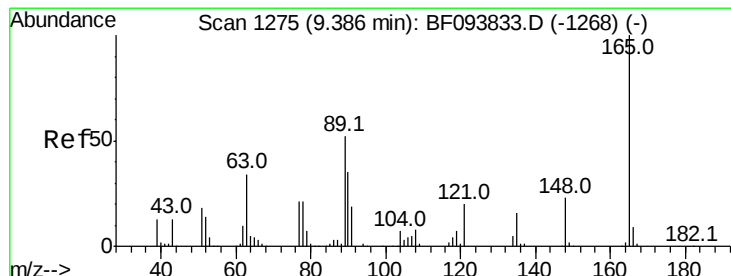


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

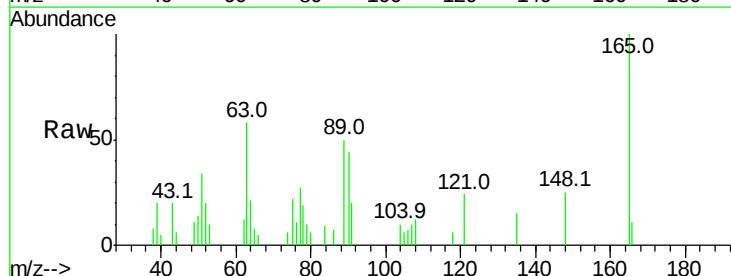
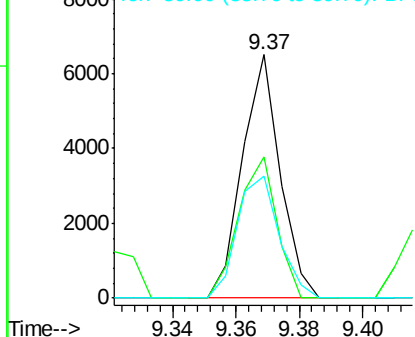


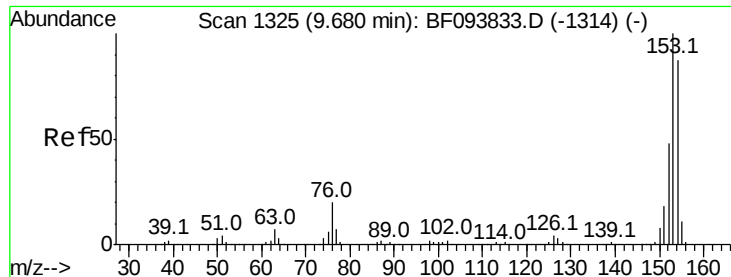
#50
2,6-Dinitrotoluene
Concen: 0.95 ng
RT: 9.37 min Scan# 1272
Delta R.T. -0.02 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion:165 Resp: 5372
Ion Ratio Lower Upper
165 100
63 57.9 34.3 51.5#
89 50.2 37.1 55.7



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





#51

Acenaphthene

Concen: 1.24 ng

RT: 9.67 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

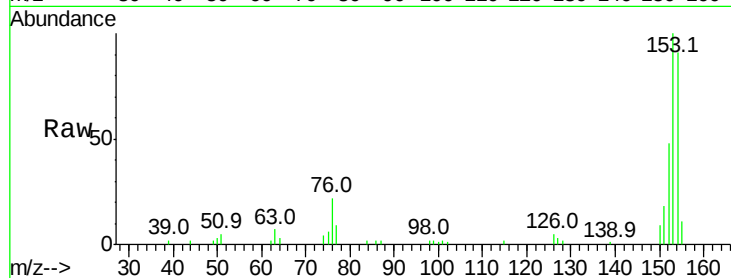
Tot Ion:154 Resp: 26323

Ion Ratio Lower Upper

154 100

153 110.4 90.5 135.7

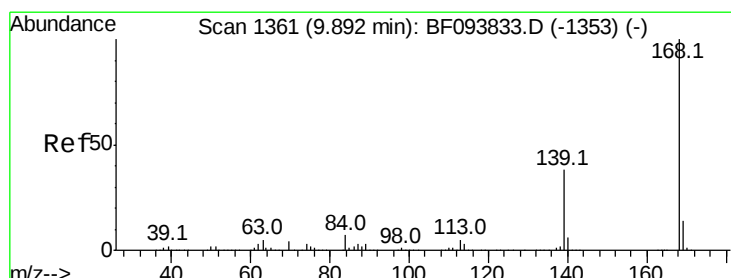
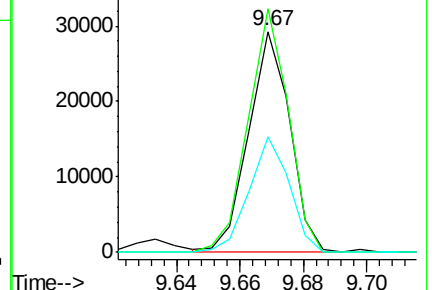
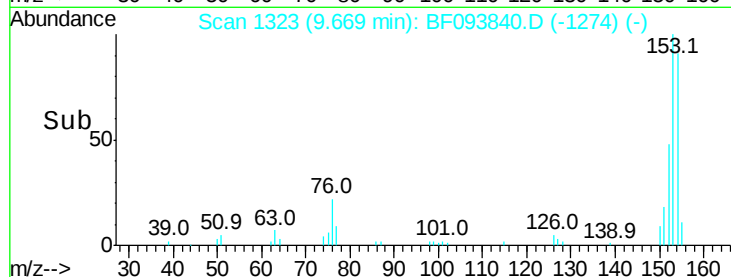
152 52.6 43.6 65.4



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



#54

Dibenzofuran

Concen: 1.28 ng

RT: 9.88 min Scan# 1359

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

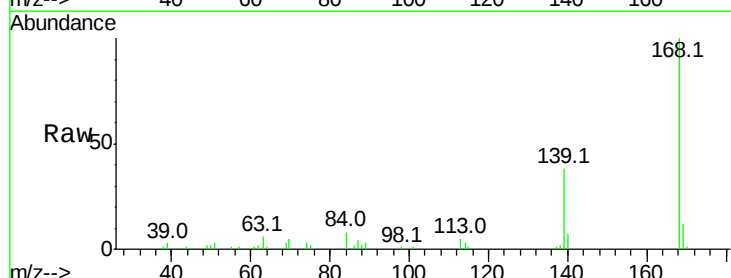
Tgt Ion:168 Resp: 36869

Ion Ratio Lower Upper

168 100

139 38.2 30.6 45.8

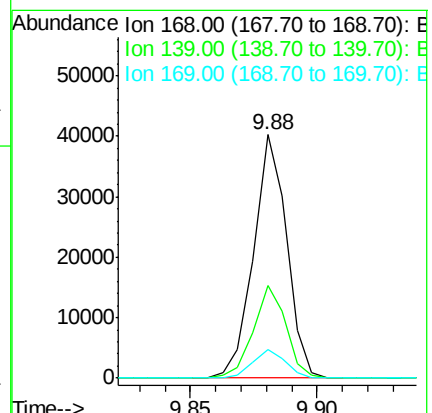
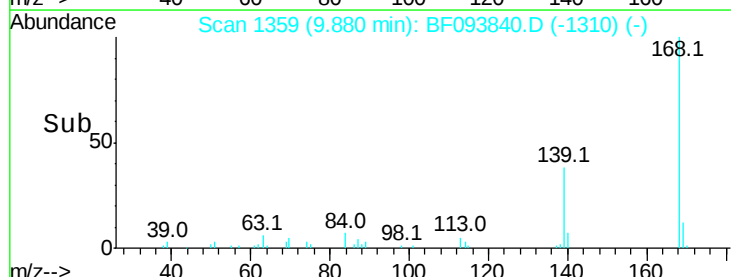
169 11.6 10.8 16.2

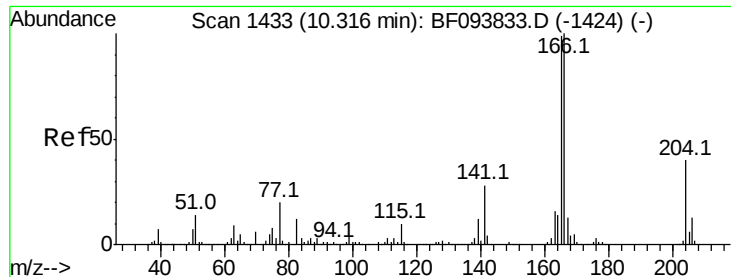


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

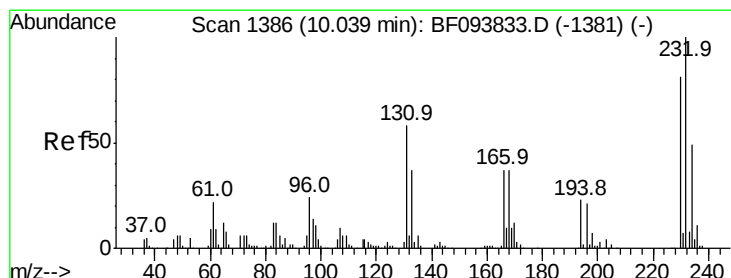
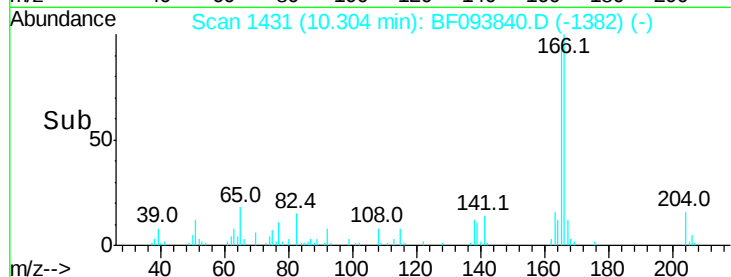
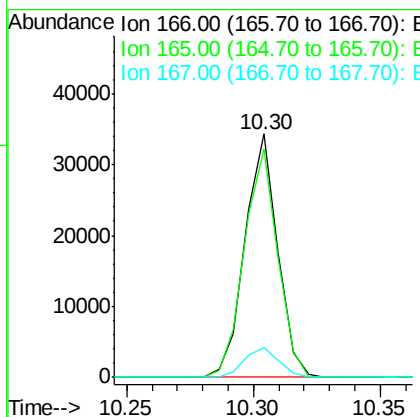
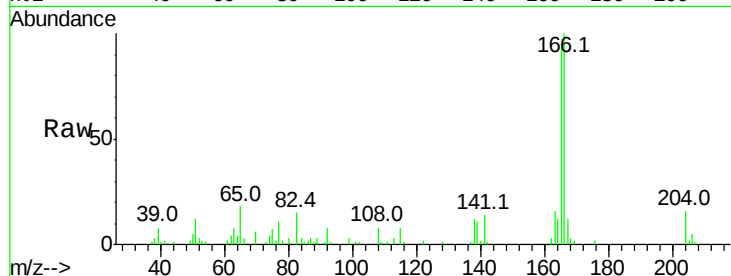




#57
Fluorene
 Concen: 1.28 ng
 RT: 10.30 min Scan# 1431
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

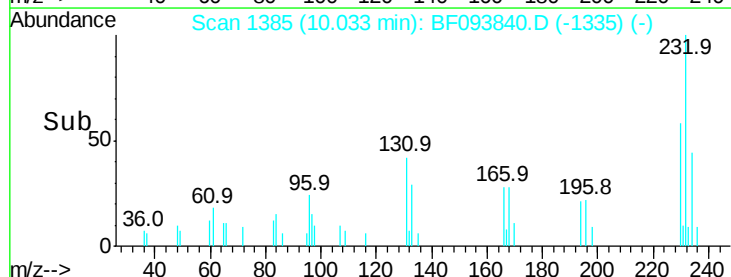
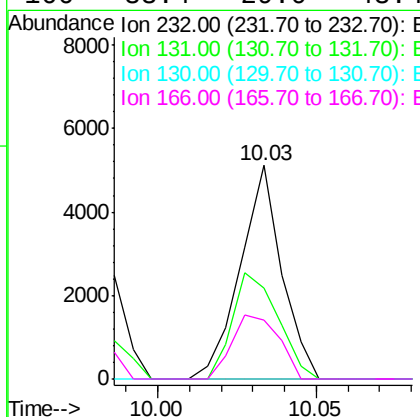
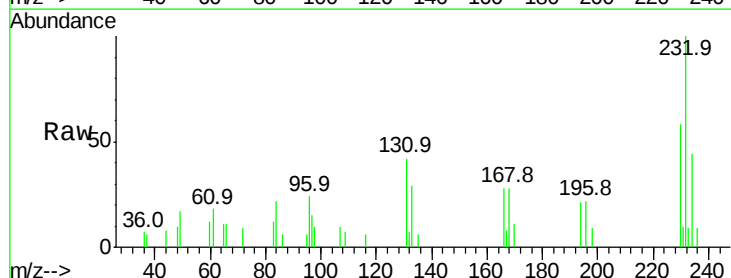
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

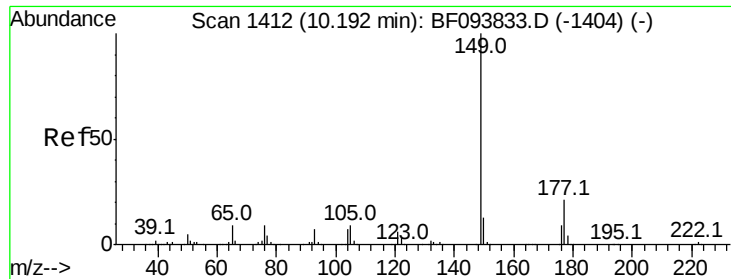
Tot Ion:166 Resp: 30654
 Ion Ratio Lower Upper
 166 100
 165 93.8 78.8 118.2
 167 12.4 10.6 16.0



#58
2,3,4,6-Tetrachlorophenol
 Concen: 0.93 ng
 RT: 10.03 min Scan# 1385
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Tgt Ion:232 Resp: 4653
 Ion Ratio Lower Upper
 232 100
 131 54.3 44.8 67.2
 130 0.0 2.3 3.5#
 166 33.4 29.0 43.4

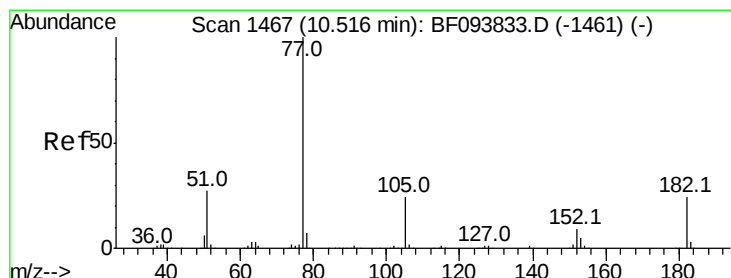
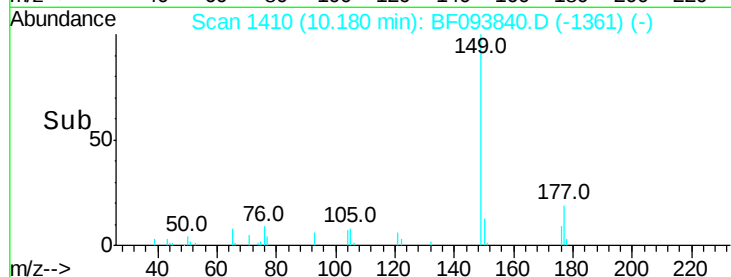
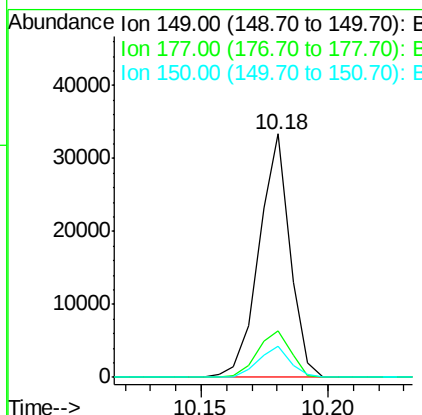
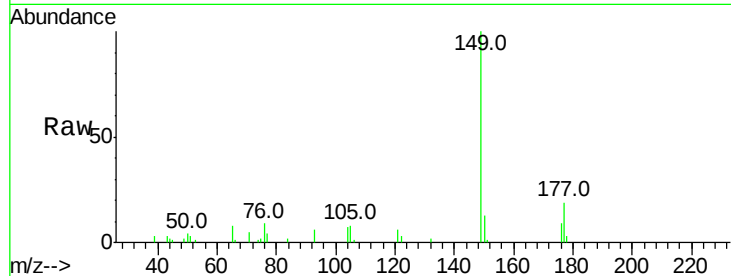




#59
Diethylphthalate
Concen: 1.17 ng
RT: 10.18 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

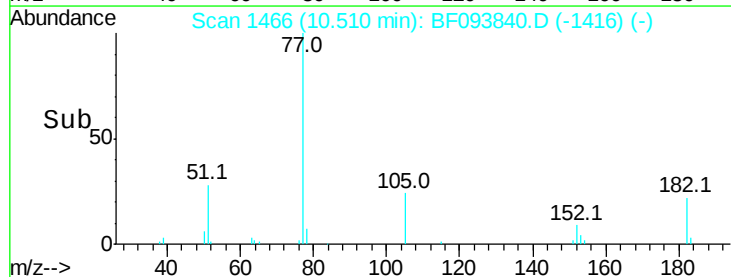
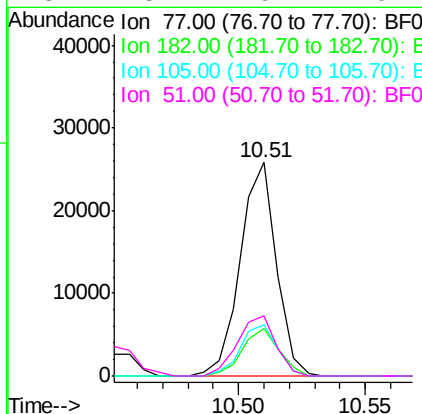
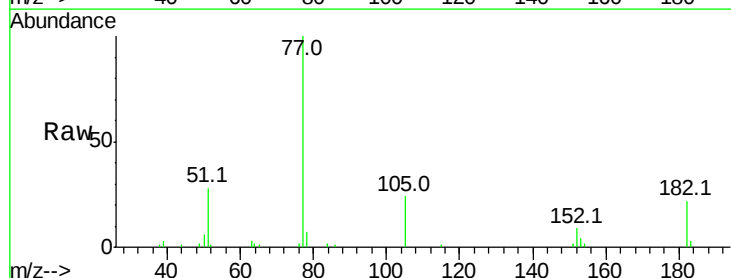
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

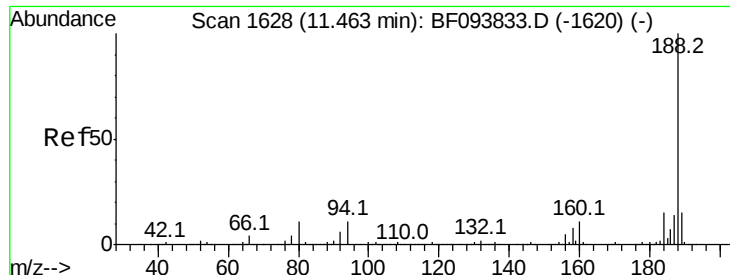
Tot Ion:149 Resp: 28427
Ion Ratio Lower Upper
149 100
177 19.2 16.7 25.1
150 12.6 10.2 15.2



#62
Azobenzene
Concen: 1.11 ng
RT: 10.51 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion: 77 Resp: 25450
Ion Ratio Lower Upper
77 100
182 22.5 0.1 40.1
105 24.0 3.6 43.6
51 28.4 9.4 49.4

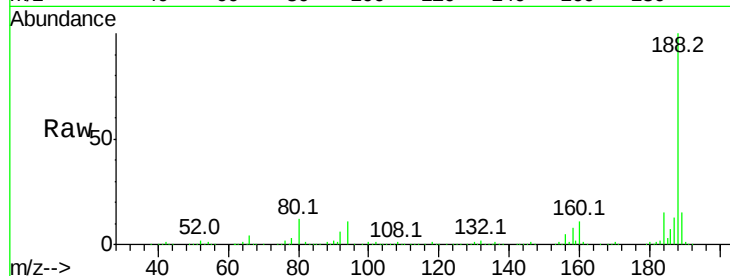




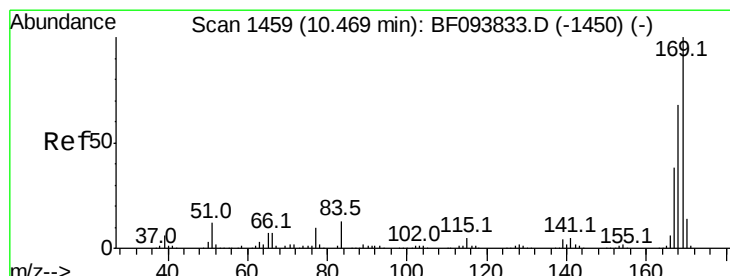
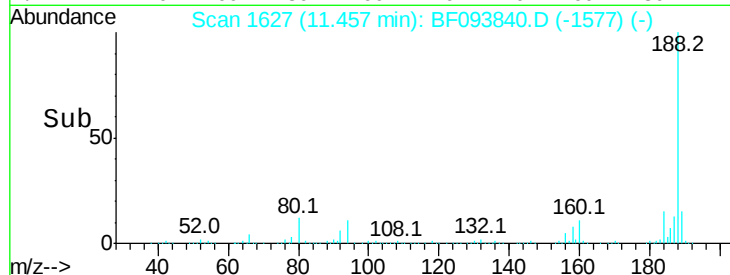
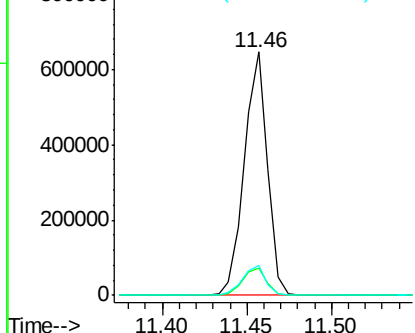
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.46 min Scan# 1627
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tot Ion:188 Resp: 616783
Ion Ratio Lower Upper
188 100
94 11.0 9.4 14.2
80 12.1 10.2 15.2

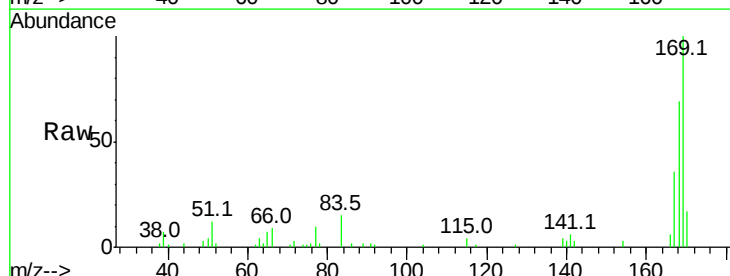


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

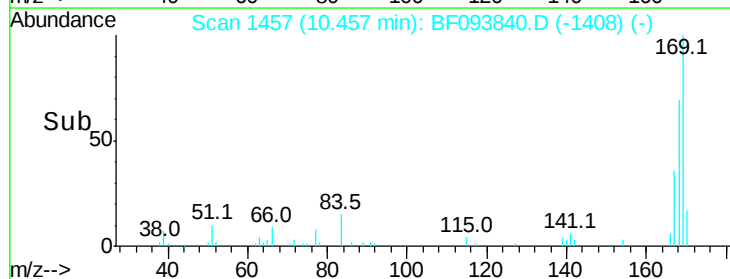
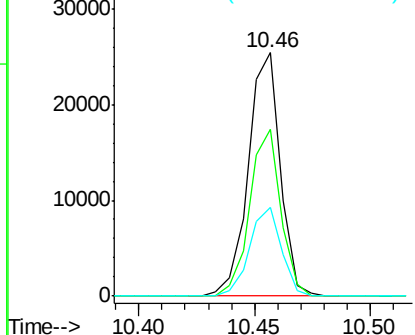


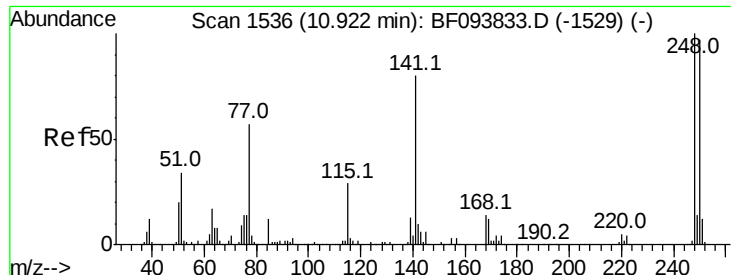
#65
n-Nitrosodiphenylamine
Concen: 1.15 ng
RT: 10.46 min Scan# 1457
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion:169 Resp: 24630
Ion Ratio Lower Upper
169 100
168 68.6 53.2 79.8
167 36.4 29.5 44.3



Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E

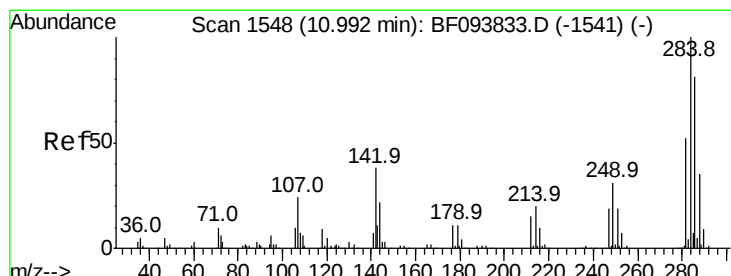
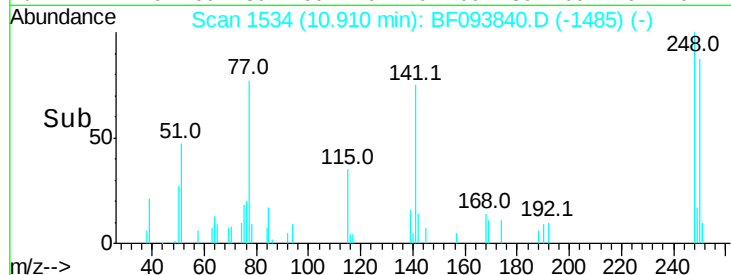
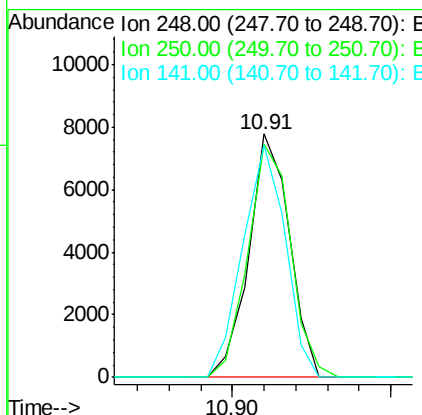
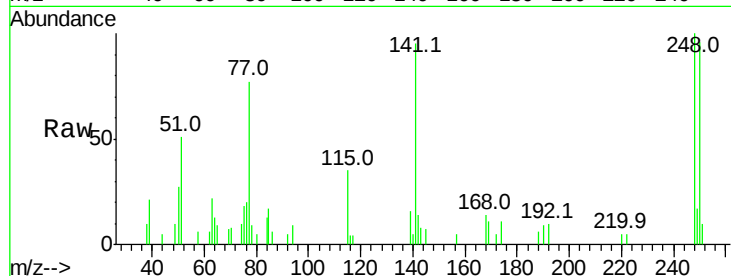




#66
 4-Bromophenyl-phenylether
 Concen: 1.14 ng
 RT: 10.91 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

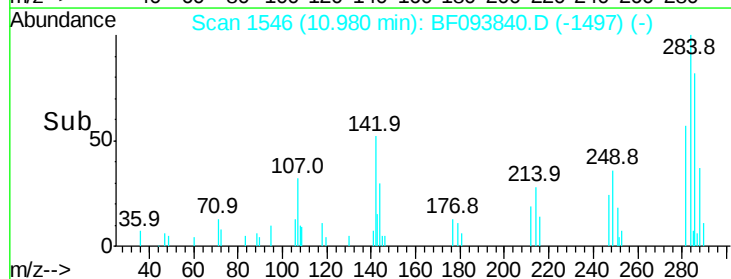
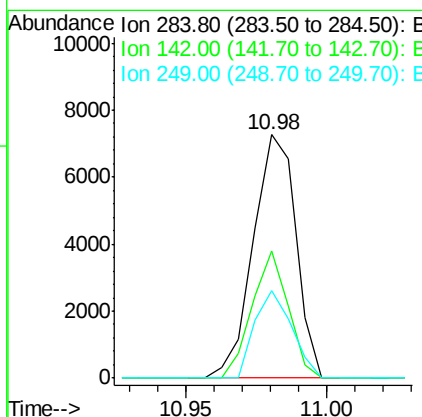
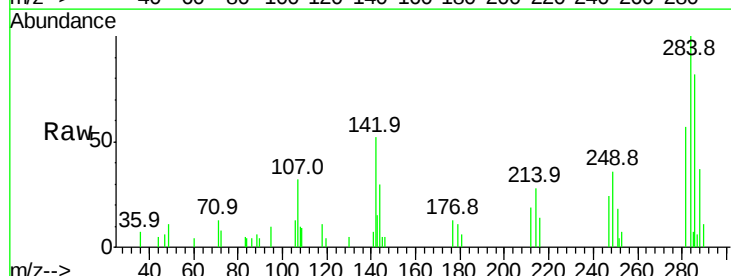
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

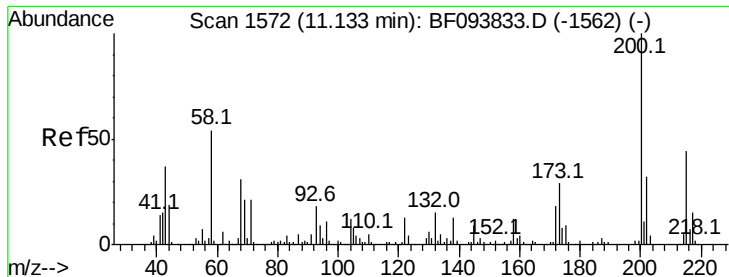
Tot Ion:248 Resp: 6897
 Ion Ratio Lower Upper
 248 100
 250 95.8 76.8 115.2
 141 95.2 68.6 103.0



#67
 Hexachlorobenzene
 Concen: 1.24 ng
 RT: 10.98 min Scan# 1546
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Tgt Ion:284 Resp: 7611
 Ion Ratio Lower Upper
 284 100
 142 52.3 22.8 34.2#
 249 36.1 24.0 36.0#

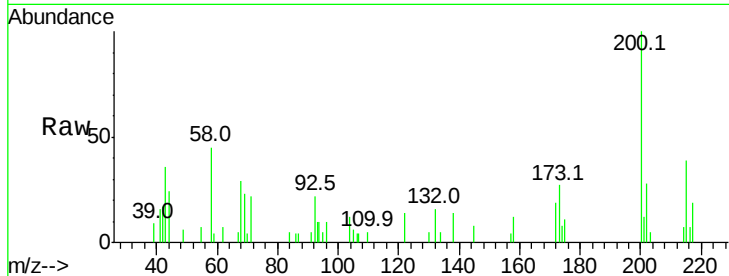




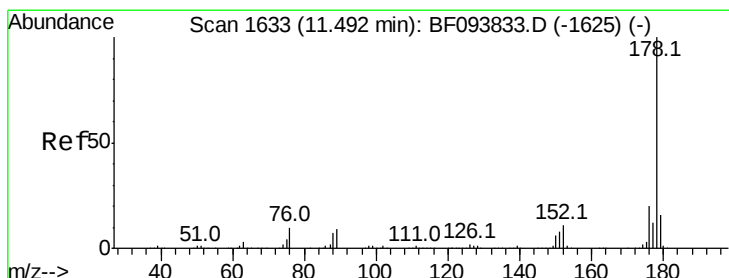
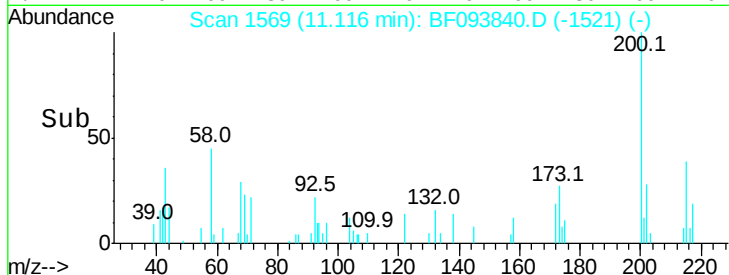
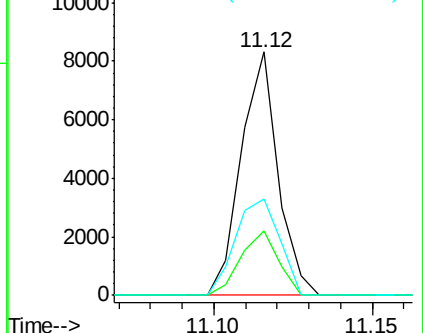
#68
Atrazine
Concen: 1.04 ng
RT: 11.12 min Scan# 1569
Delta R.T. -0.02 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tot Ion:200 Resp: 6673
Ion Ratio Lower Upper
200 100
173 26.6 6.3 46.3
215 39.4 27.2 67.2

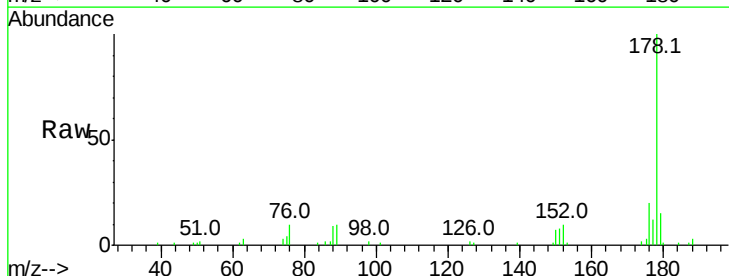


Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

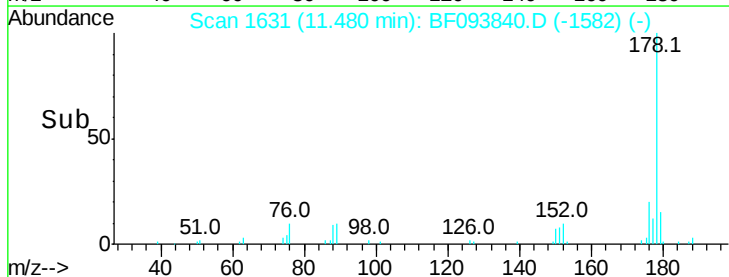
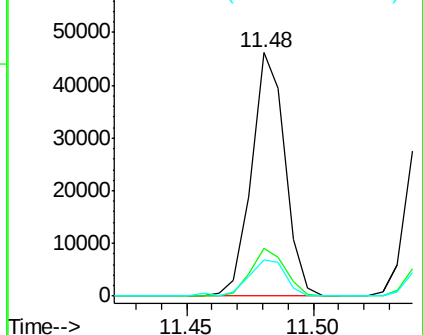


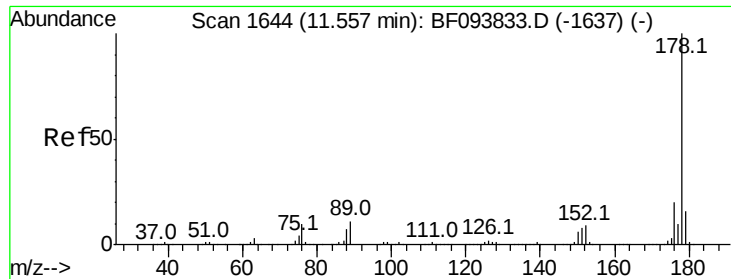
#70
Phenanthrene
Concen: 1.24 ng
RT: 11.48 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion:178 Resp: 42503
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 14.8 12.6 19.0



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

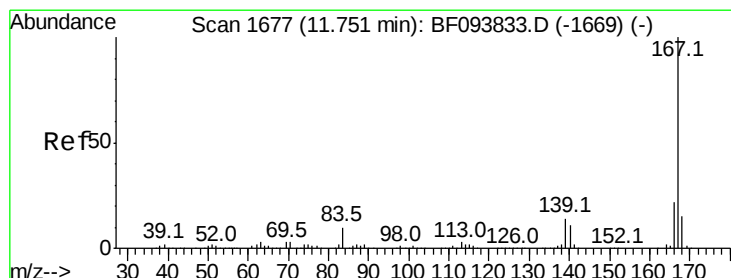
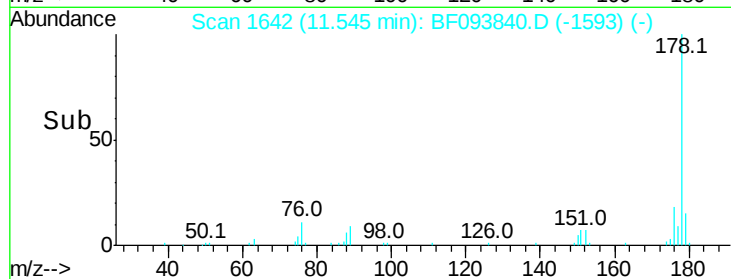
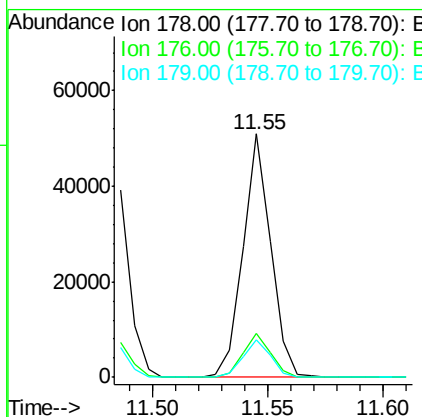
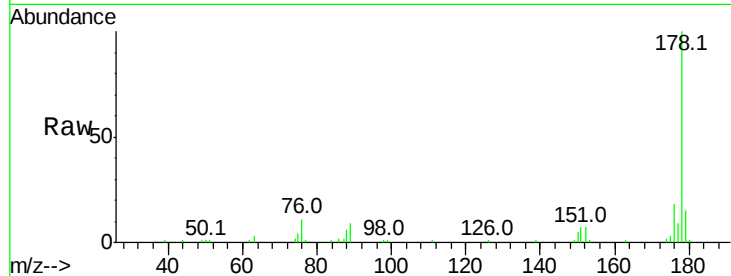




#71
 Anthracene
 Concen: 1.22 ng
 RT: 11.55 min Scan# 1642
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

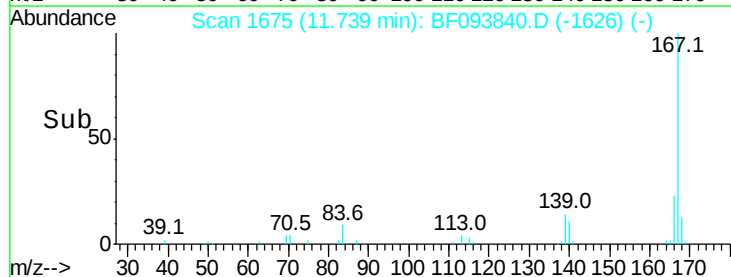
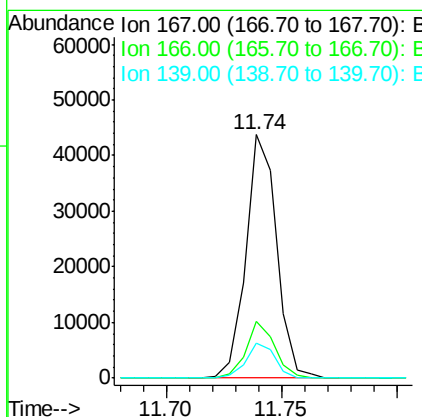
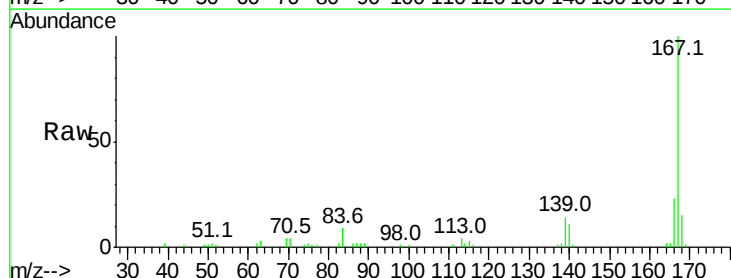
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

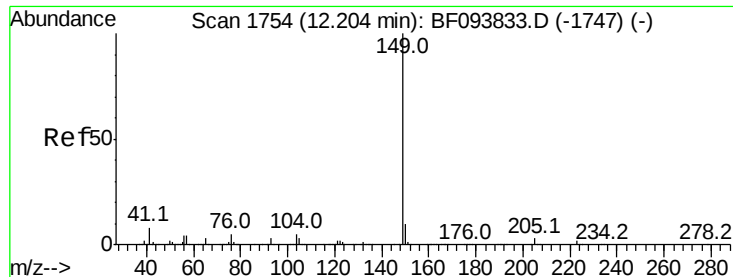
Tot Ion:178 Resp: 43082
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.8 23.8
 179 15.2 12.7 19.1



#72
 Carbazole
 Concen: 1.12 ng
 RT: 11.74 min Scan# 1675
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Tgt Ion:167 Resp: 40733
 Ion Ratio Lower Upper
 167 100
 166 23.1 18.1 27.1
 139 14.2 11.7 17.5

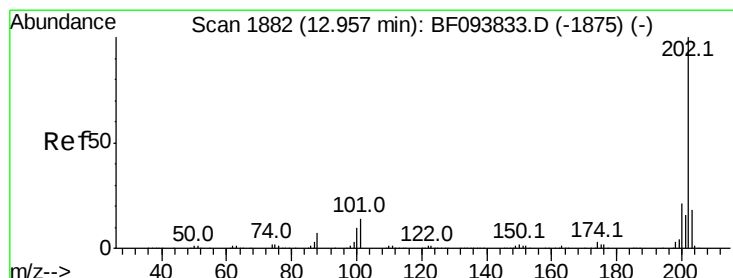
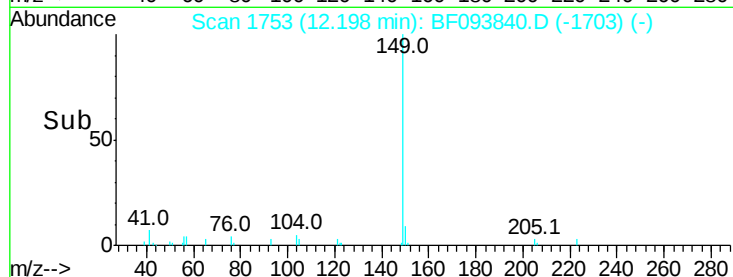
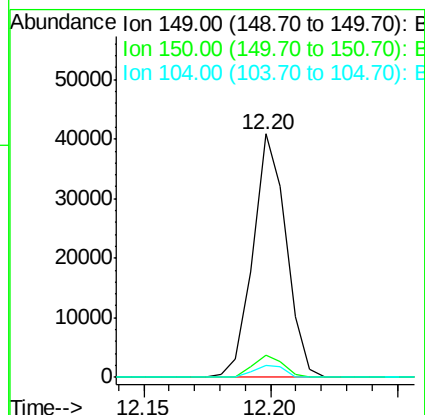
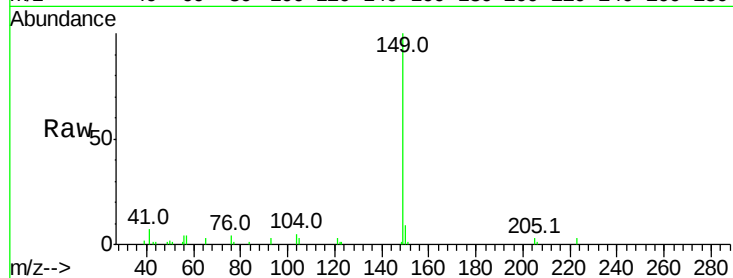




#73
Di-n-butylphthalate
Concen: 0.99 ng
RT: 12.20 min Scan# 1753
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

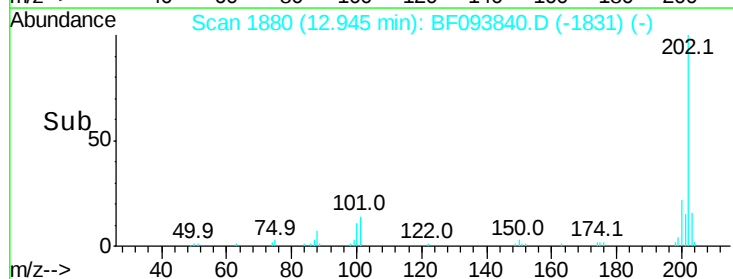
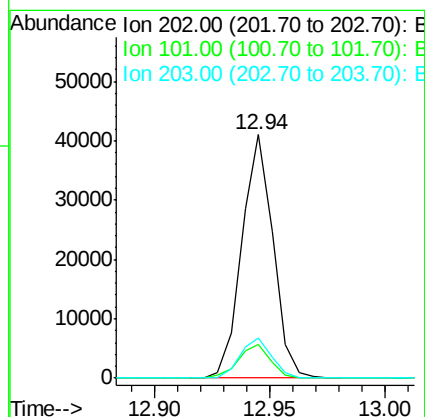
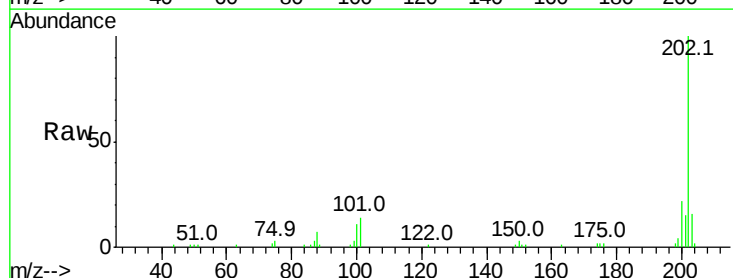
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

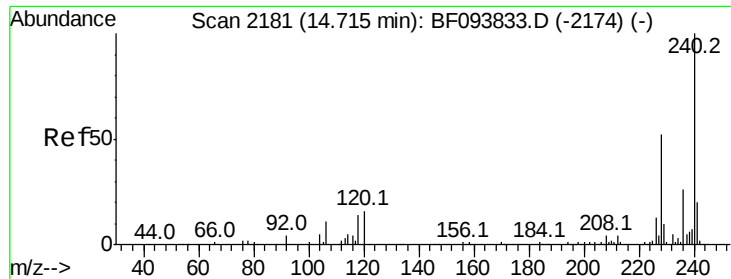
Tot Ion:149 Resp: 37327
Ion Ratio Lower Upper
149 100
150 9.1 7.7 11.5
104 4.9 4.0 6.0



#74
Fluoranthene
Concen: 1.10 ng
RT: 12.94 min Scan# 1880
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion:202 Resp: 38739
Ion Ratio Lower Upper
202 100
101 14.0 0.0 33.2
203 16.2 0.0 38.1

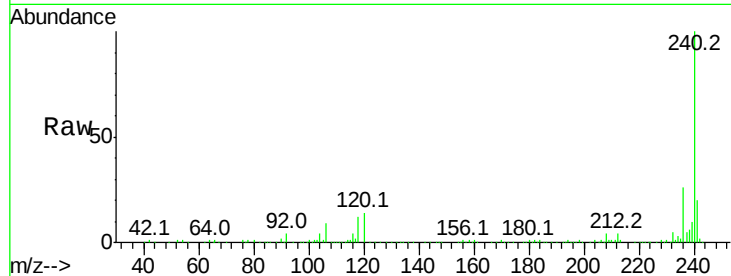




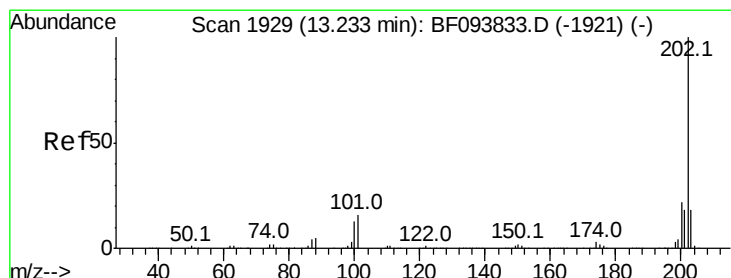
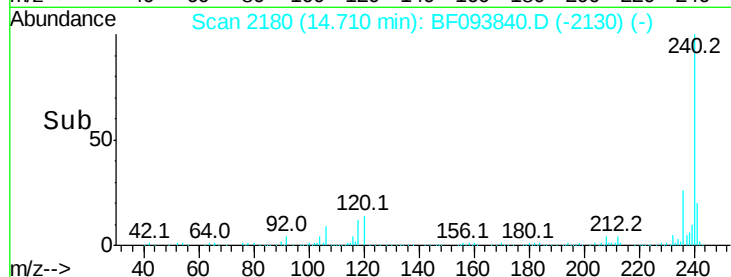
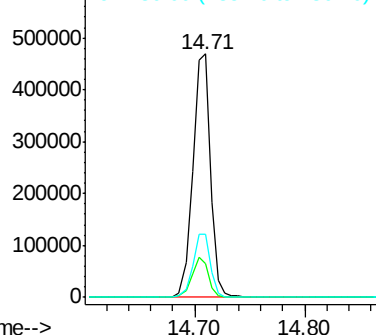
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.71 min Scan# 2180
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

Tot Ion:240 Resp: 524018
 Ion Ratio Lower Upper
 240 100
 120 14.0 5.8 8.8#
 236 26.2 20.5 30.7

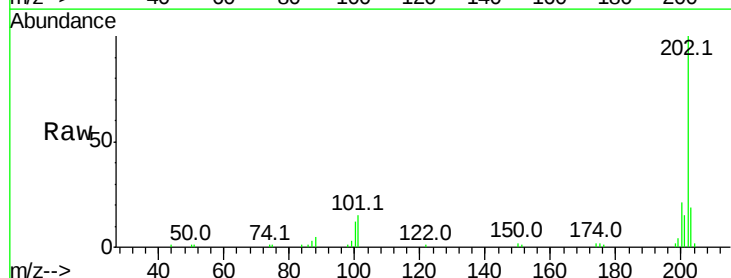


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

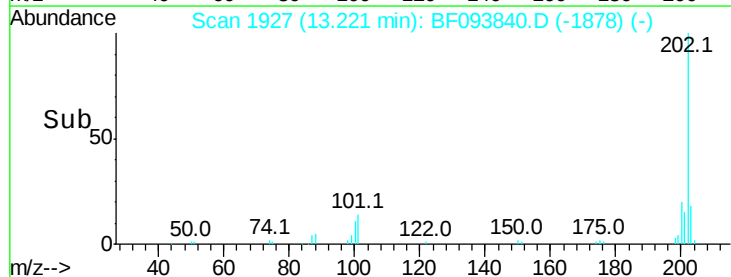
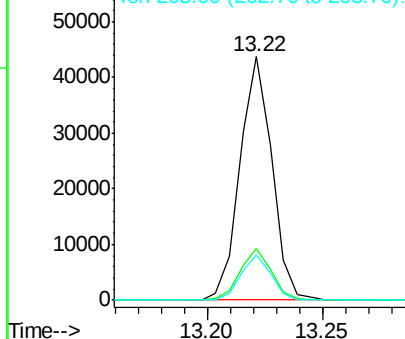


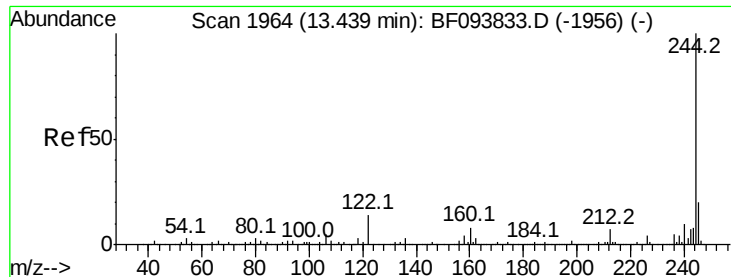
#77
 Pyrene
 Concen: 1.11 ng
 RT: 13.22 min Scan# 1927
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Tgt Ion:202 Resp: 42359
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.6 26.4
 203 18.6 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 72.36 ng

RT: 13.44 min Scan# 1964

Delta R.T. 0.00 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

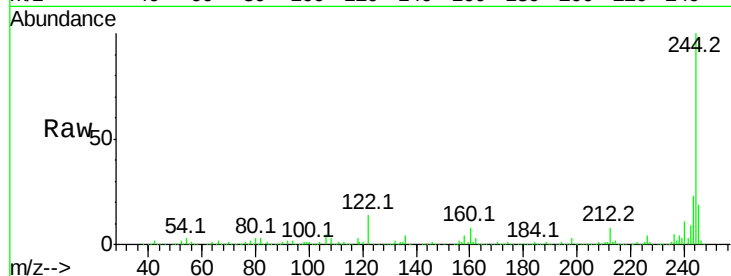
Tot Ion:244 Resp: 1691683

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

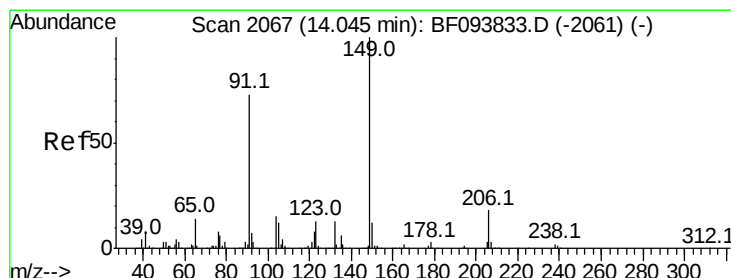
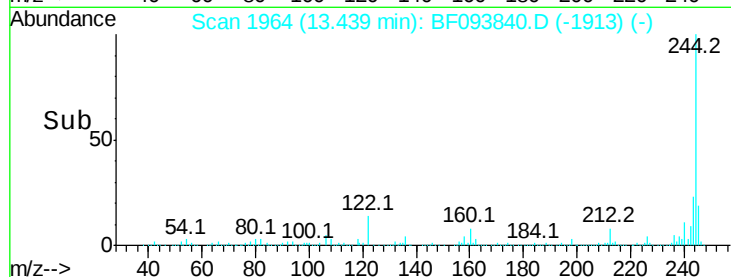
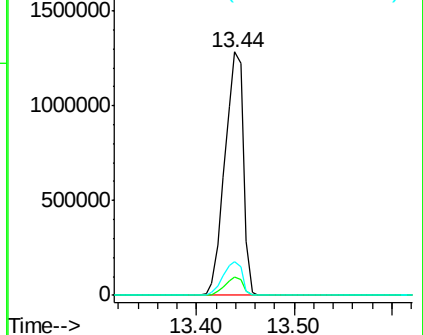
122 14.0 10.3 15.5



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



#79

Butylbenzylphthalate

Concen: 0.75 ng

RT: 14.04 min Scan# 2066

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

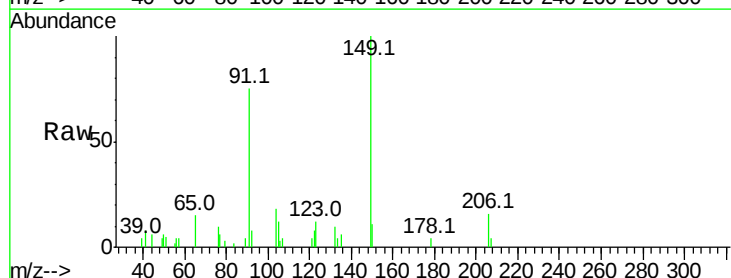
Tgt Ion:149 Resp: 12084

Ion Ratio Lower Upper

149 100

91 75.0 45.0 67.4#

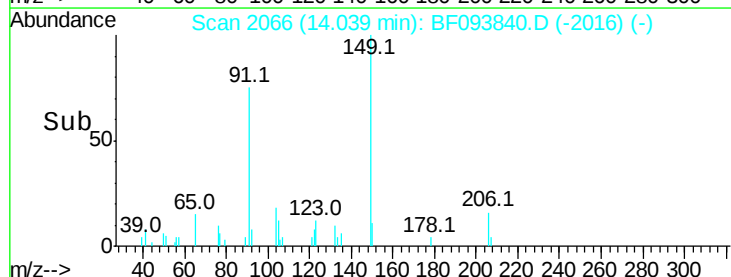
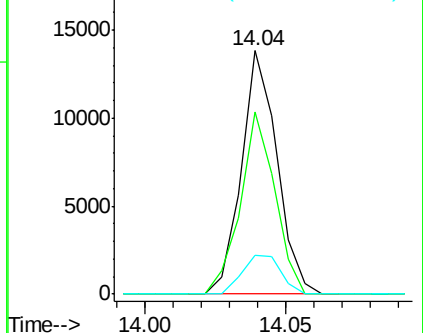
206 15.9 17.0 25.6#

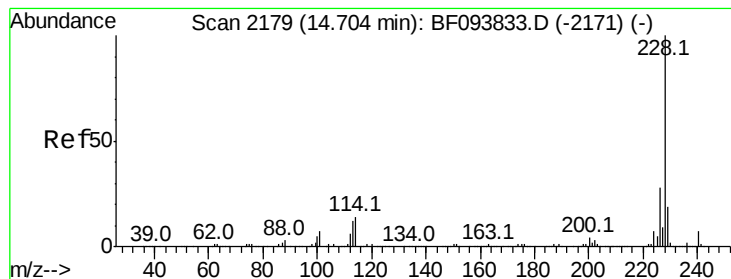


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 1.12 ng

RT: 14.69 min Scan# 2177

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

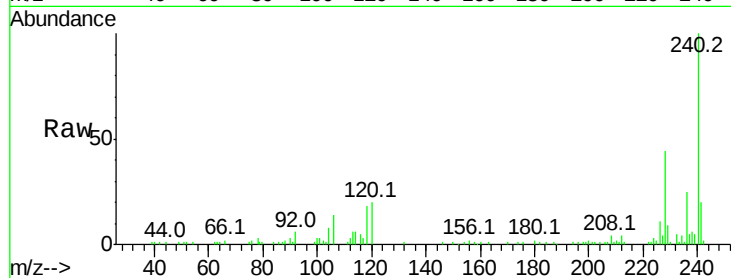
Tot Ion:228 Resp: 34086

Ion Ratio Lower Upper

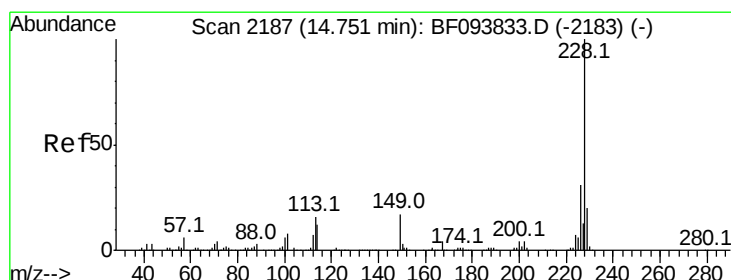
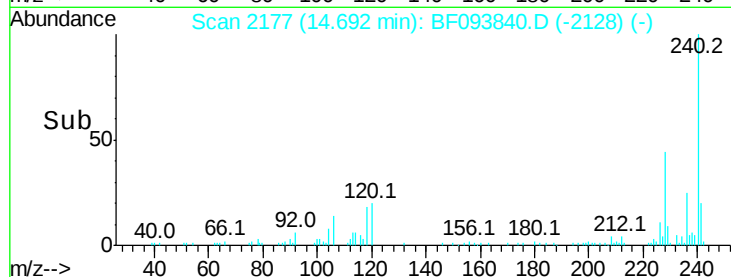
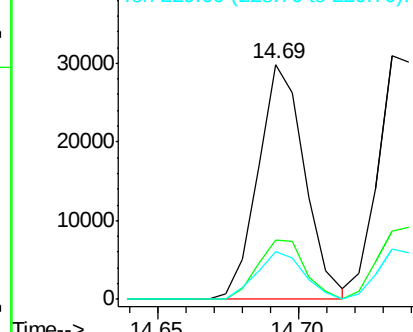
228 100

226 25.2 22.6 33.8

229 20.4 16.3 24.5



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



#82

Chrysene

Concen: 1.18 ng

RT: 14.73 min Scan# 2184

Delta R.T. -0.02 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

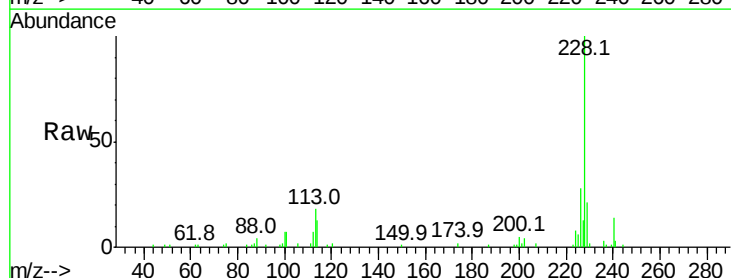
Tgt Ion:228 Resp: 33587

Ion Ratio Lower Upper

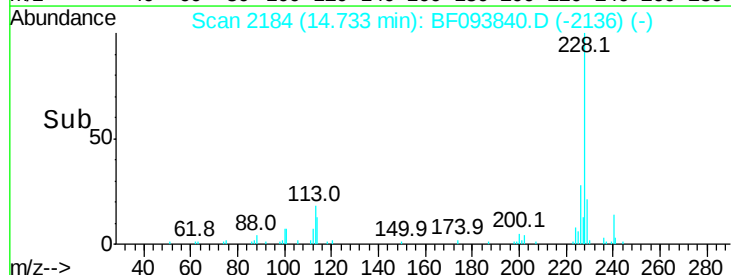
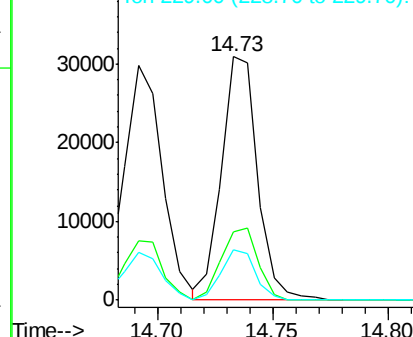
228 100

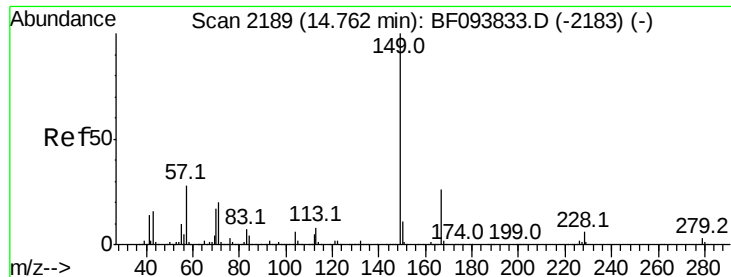
226 27.9 24.9 37.3

229 20.9 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 0.93 ng

RT: 14.76 min Scan# 2189

Delta R.T. 0.00 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

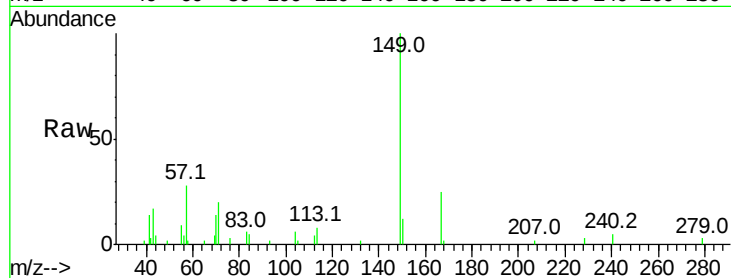
Tot Ion:149 Resp: 20475

Ion Ratio Lower Upper

149 100

167 25.3 21.0 31.4

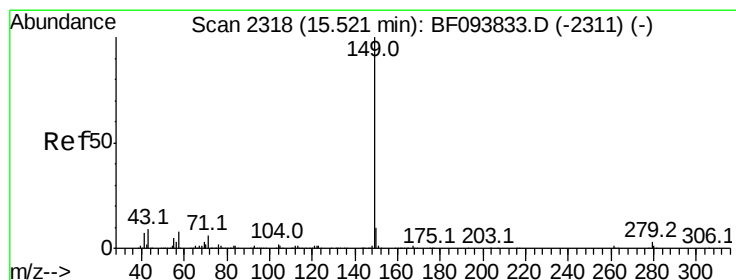
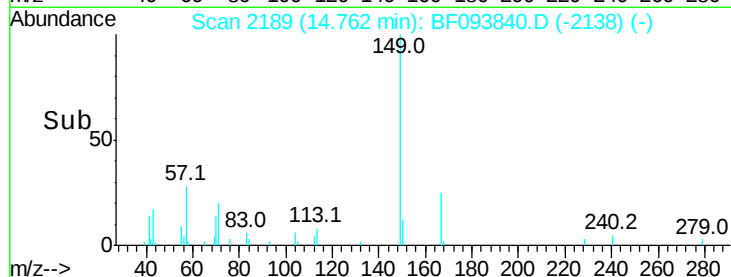
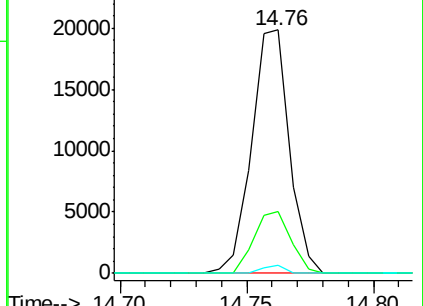
279 3.3 1.9 2.9#



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



#84

Di-n-octyl phthalate

Concen: 0.71 ng

RT: 15.51 min Scan# 2316

Delta R.T. -0.01 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

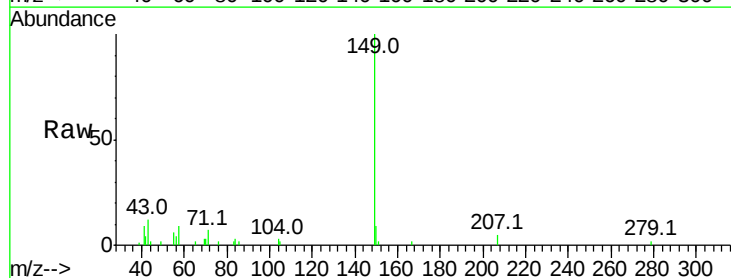
Tgt Ion:149 Resp: 26150

Ion Ratio Lower Upper

149 100

167 1.1 1.2 1.8#

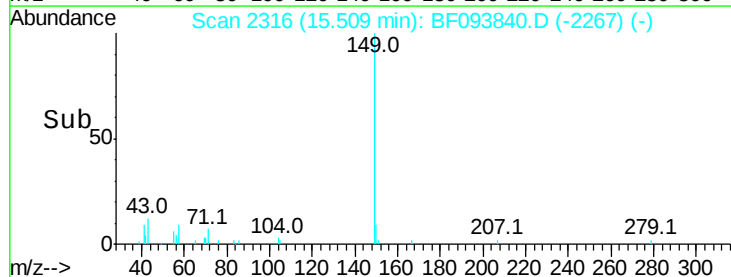
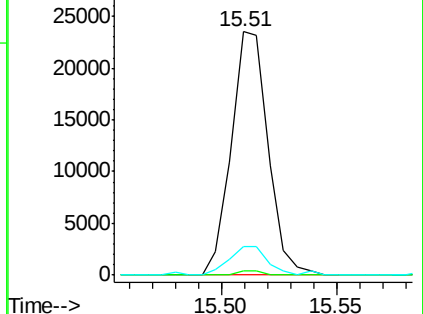
43 12.6 8.5 12.7

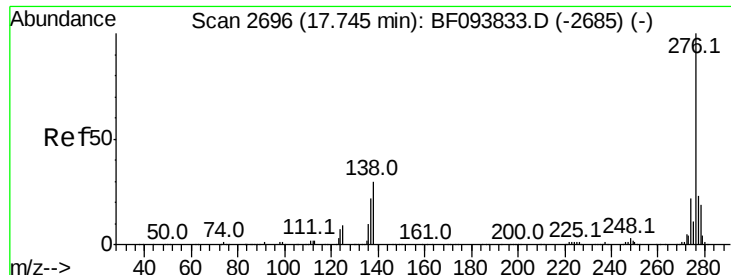


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

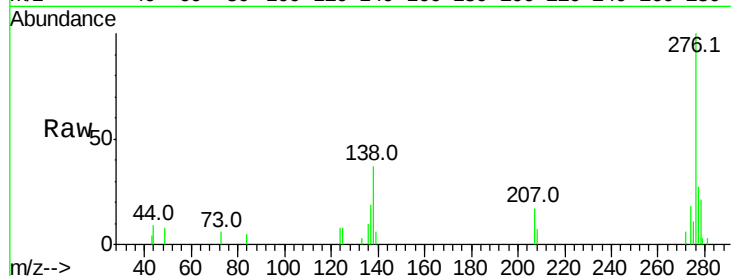




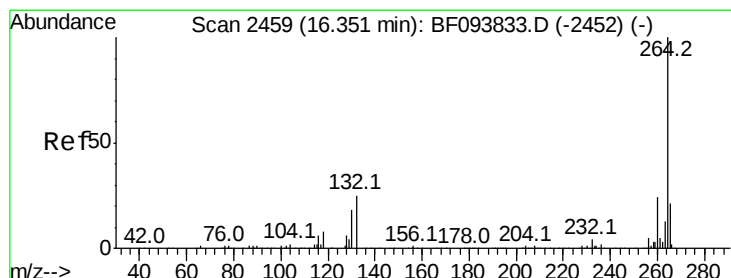
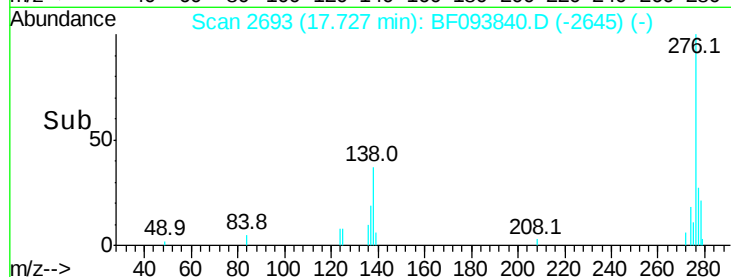
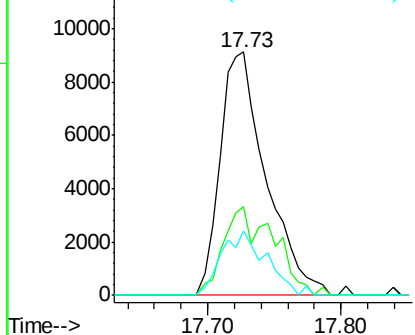
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 0.89 ng
 RT: 17.73 min Scan# 2693
 Delta R.T. -0.02 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

Tot Ion:276 Resp: 21934
 Ion Ratio Lower Upper
 276 100
 138 40.1 27.8 41.6
 277 26.0 20.2 30.4

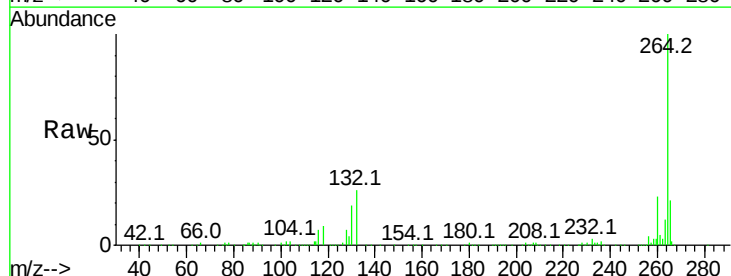


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

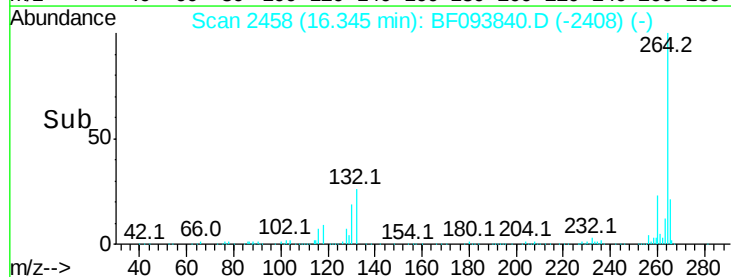
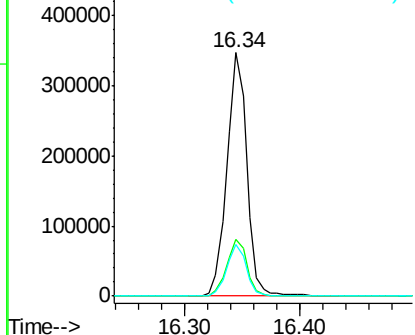


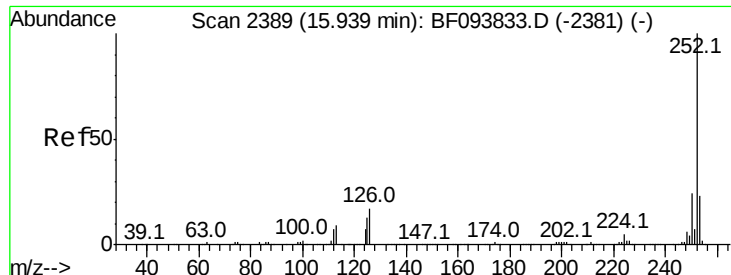
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.34 min Scan# 2458
 Delta R.T. -0.01 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Tgt Ion:264 Resp: 416014
 Ion Ratio Lower Upper
 264 100
 260 23.1 19.5 29.3
 265 21.2 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 1.08 ng

RT: 15.92 min Scan# 2386

Delta R.T. -0.02 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

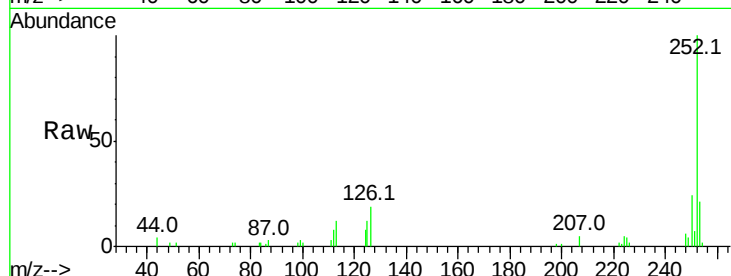
Tot Ion:252 Resp: 27439

Ion Ratio Lower Upper

252 100

253 20.7 18.1 27.1

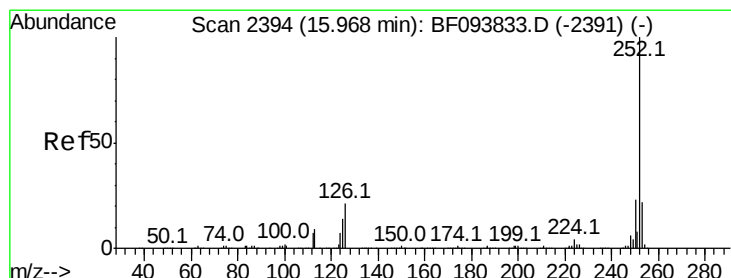
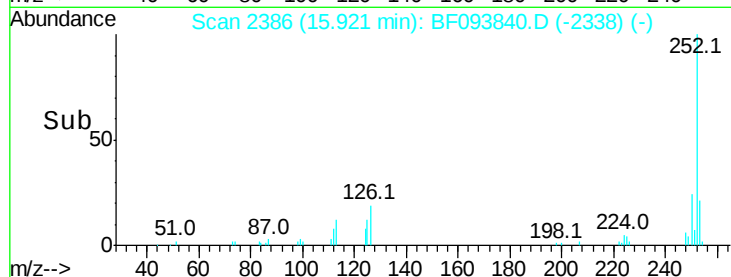
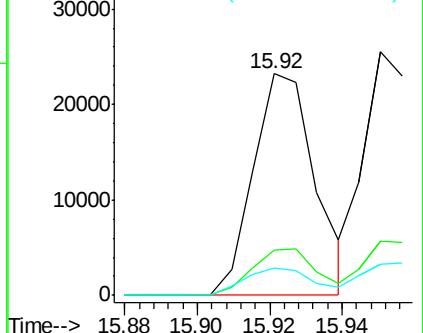
125 12.3 9.8 14.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 1.09 ng

RT: 15.95 min Scan# 2391

Delta R.T. -0.02 min

Lab File: BF093840.D

Acq: 22 Mar 2017 18:56

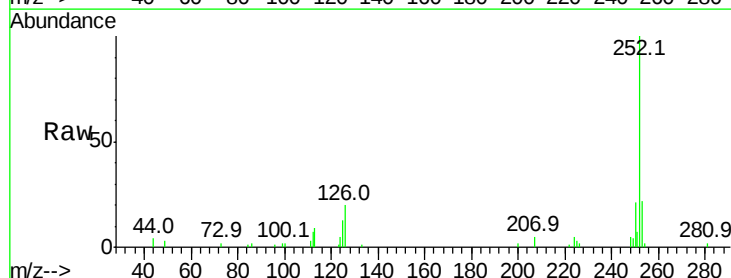
Tgt Ion:252 Resp: 27331

Ion Ratio Lower Upper

252 100

253 22.1 18.4 27.6

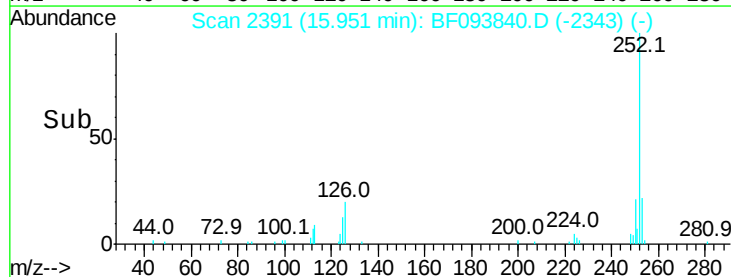
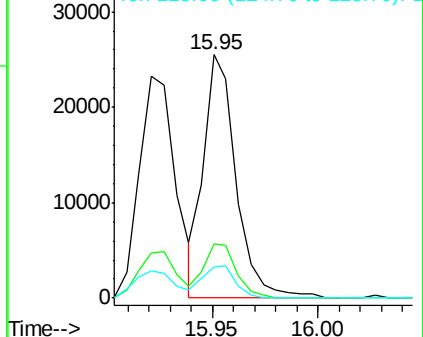
125 12.6 13.1 19.7#

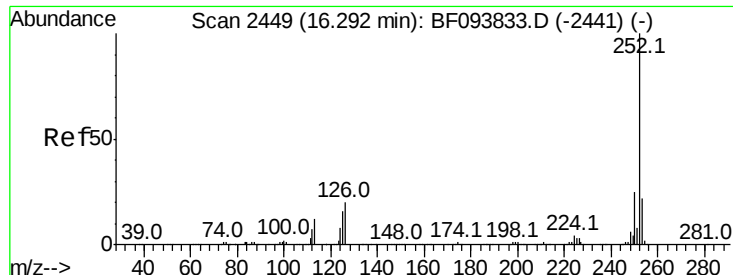


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

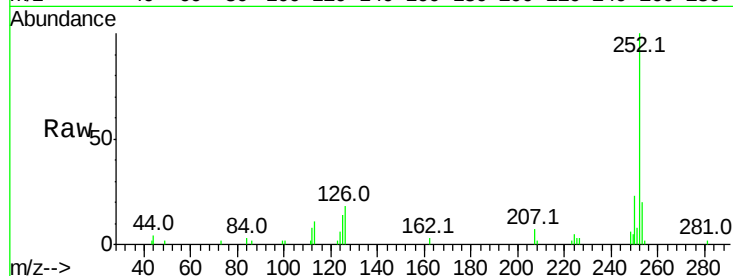




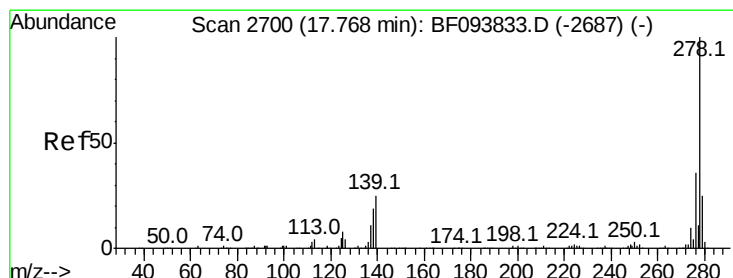
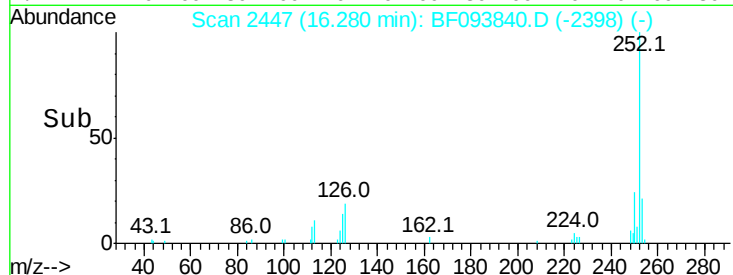
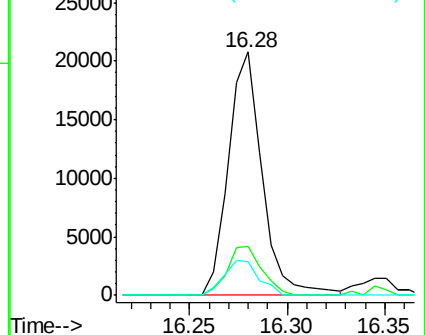
#89
Benzo(a)pyrene
Concen: 1.06 ng
RT: 16.28 min Scan# 2447
Delta R.T. -0.01 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tot Ion:252 Resp: 24954
Ion Ratio Lower Upper
252 100
253 20.1 17.5 26.3
125 13.8 11.0 16.4

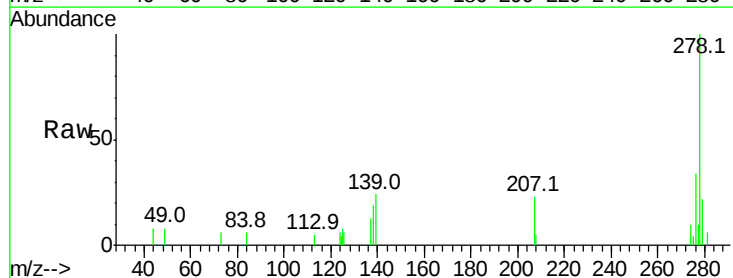


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

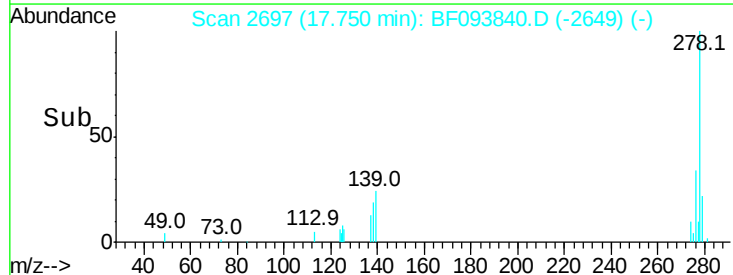
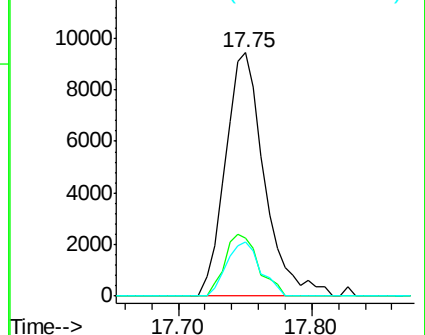


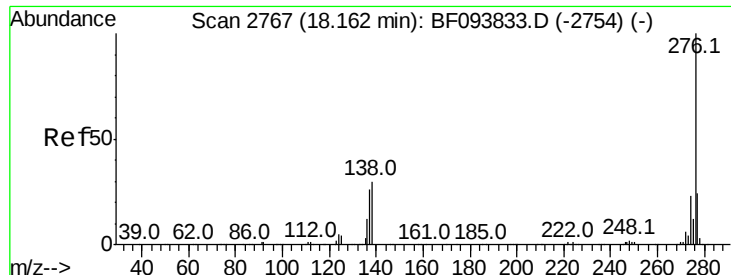
#90
Dibenzo(a,h)anthracene
Concen: 0.97 ng
RT: 17.75 min Scan# 2697
Delta R.T. -0.02 min
Lab File: BF093840.D
Acq: 22 Mar 2017 18:56

Tgt Ion:278 Resp: 19286
Ion Ratio Lower Upper
278 100
139 23.9 16.6 24.8
279 22.4 19.3 28.9



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

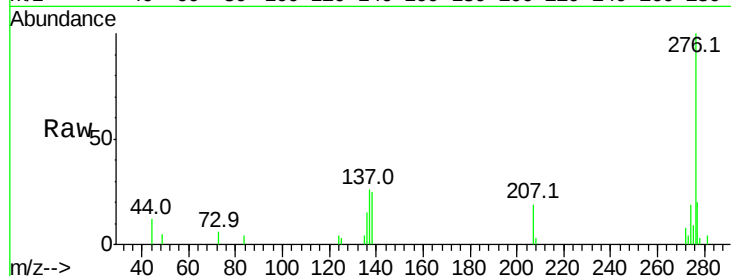




#91
 Benzo(a,h,i)perylene
 Concen: 0.95 ng
 RT: 18.13 min Scan# 2761
 Delta R.T. -0.04 min
 Lab File: BF093840.D
 Acq: 22 Mar 2017 18:56

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

Tot Ion	Ratio	Lower	Upper
276	100		
277	20.3	18.6	28.0
138	24.9	25.4	38.0



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

