

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032217\
 Data File : BF093841.D
 Acq On : 22 Mar 2017 19:23
 Operator : SJ/MA
 Sample : I2296-01
 Misc : LOD 2 PPB
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Mar 23 12:18:46 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

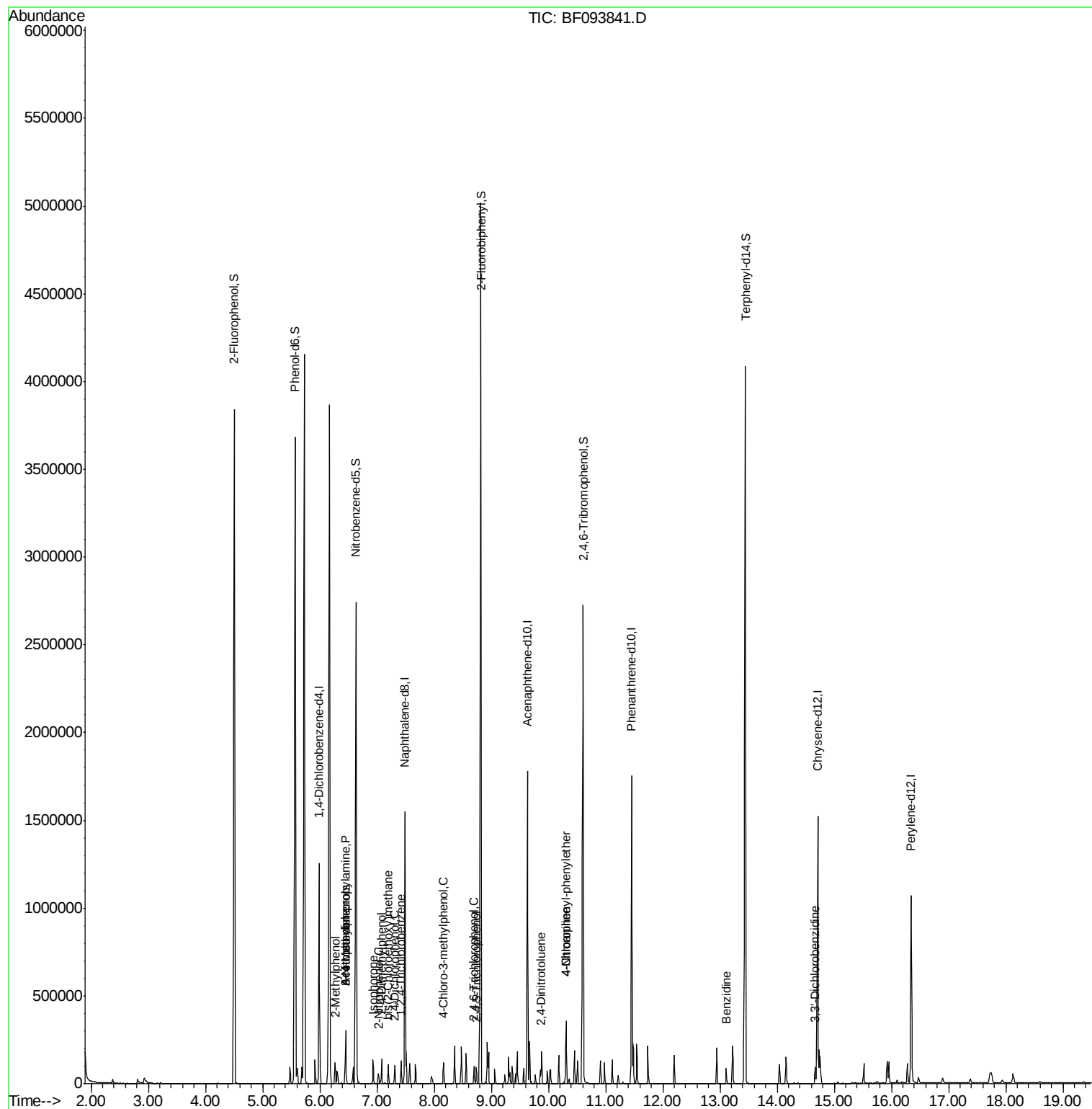
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	196096	20.00	ng	0.00
21) Naphthalene-d8	7.49	136	806460	20.00	ng	0.00
38) Acenaphthene-d10	9.63	164	376639	20.00	ng	0.00
63) Phenanthrene-d10	11.46	188	666828	20.00	ng	0.00
75) Chrysene-d12	14.71	240	566637	20.00	ng	0.00
86) Perylene-d12	16.34	264	448688	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1460329	125.78	ng	0.00
7) Phenol-d6	5.57	99	1783009	124.14	ng	0.00
23) Nitrobenzene-d5	6.63	82	1185034	83.86	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	398909	134.03	ng	0.00
44) 2-Fluorobiphenyl	8.82	172	2073973	83.99	ng	0.00
78) Terphenyl-d14	13.44	244	1770621	70.04	ng	0.00
Target Compounds						Qvalue
17) 2-Methylphenol	6.27	107	22047	2.02	ng	99
19) n-Nitroso-di-n-propylamine	6.46	70	20642	2.24	ng	100
20) 3+4-Methylphenols	6.45	107	30568	2.31	ng	# 84
22) Acetophenone	6.45	105	42238	2.35	ng	96
25) Isophorone	6.93	82	53771	2.17	ng	97
26) 2-Nitrophenol	7.03	139	11326	1.70	ng	92
27) 2,4-Dimethylphenol	7.08	122	23123	2.02	ng	94
28) bis(2-Chloroethoxy)methane	7.20	93	35780	2.19	ng	96
29) 2,4-Dichlorophenol	7.31	162	21638	2.02	ng	96
30) 1,2,4-Trichlorobenzene	7.42	180	24347	2.21	ng	96
36) 4-Chloro-3-methylphenol	8.16	107	22942	2.05	ng	88
42) 2,4,6-Trichlorophenol	8.70	196	13144	1.80	ng	96
43) 2,4,5-Trichlorophenol	8.74	196	15525	1.97	ng	# 85
56) 2,4-Dinitrotoluene	9.86	165	14278	1.85	ng	# 89
60) 4-Chlorophenyl-phenylether	10.31	204	27150	2.45	ng	95
61) 4-Nitroaniline	10.31	138	13096	1.89	ng	93
76) Benzidine	13.11	184	34240	1.53	ng	97
81) 3,3'-Dichlorobenzidine	14.66	252	19260	1.63	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.99 min Scan# 697

Delta R.T. -0.00 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

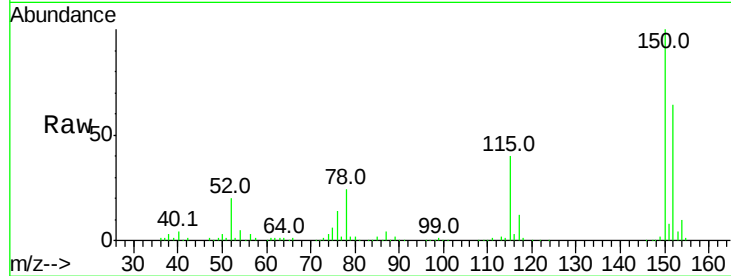
Tot Ion:152 Resp: 196096

Ion Ratio Lower Upper

152 100

150 156.6 126.2 189.2

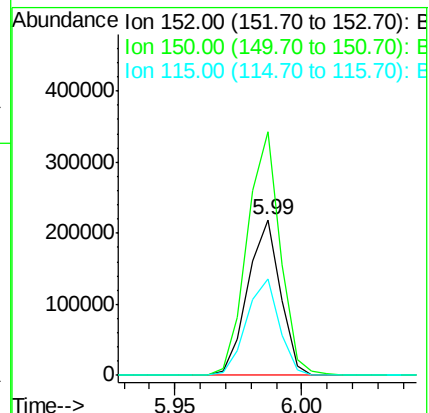
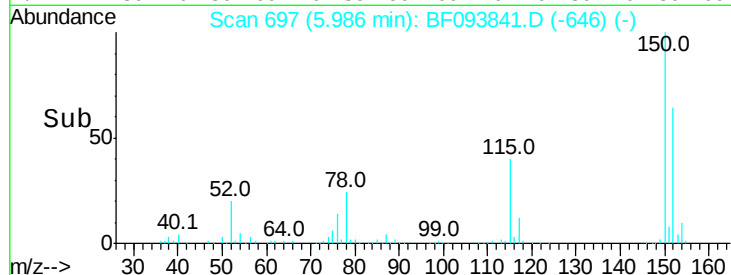
115 62.3 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 125.78 ng

RT: 4.50 min Scan# 445

Delta R.T. 0.00 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

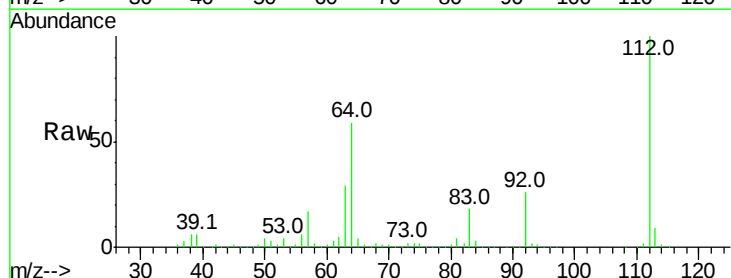
Tgt Ion:112 Resp: 1460329

Ion Ratio Lower Upper

112 100

64 59.0 46.0 69.0

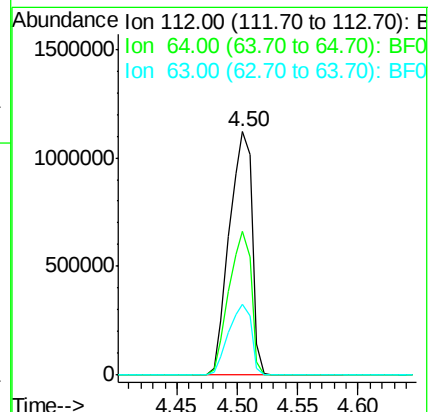
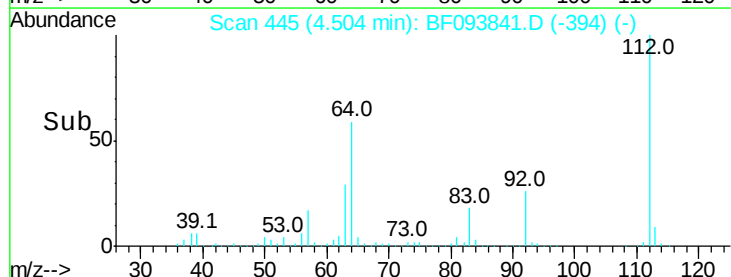
63 29.1 23.4 35.0



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





#7

Phenol-d6

Concen: 124.14 ng

RT: 5.57 min Scan# 626

Delta R.T. -0.00 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

Instrument :

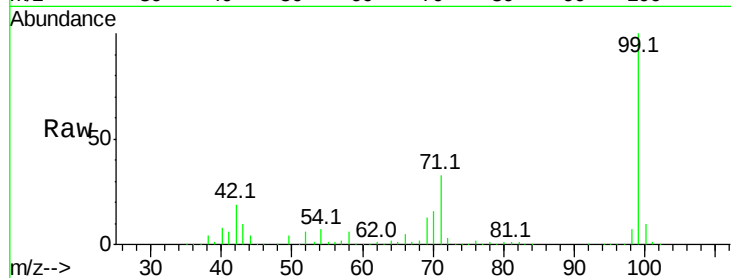
BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

Tot Ion: 99 Resp: 1783009

Ion	Ratio	Lower	Upper
99	100		
42	19.2	13.5	20.3
71	33.5	24.5	36.7

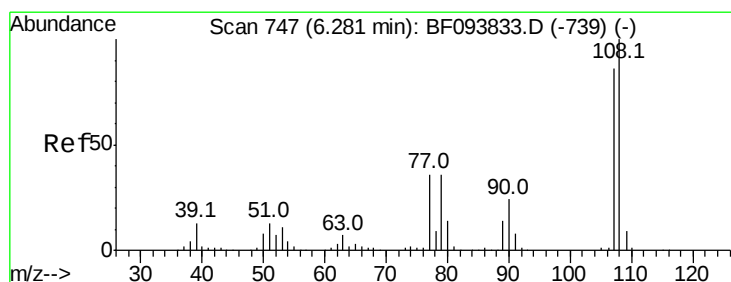
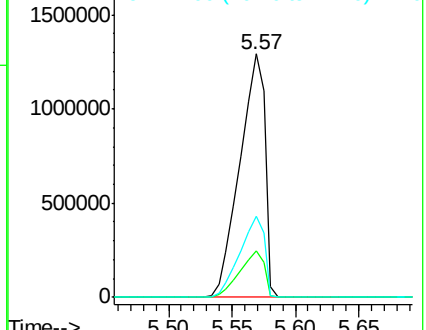
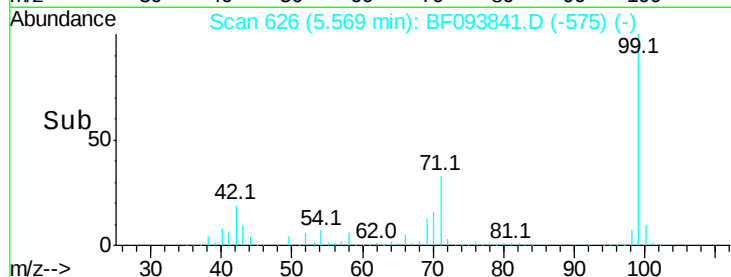


Abundance

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



#17

2-Methylphenol

Concen: 2.02 ng

RT: 6.27 min Scan# 745

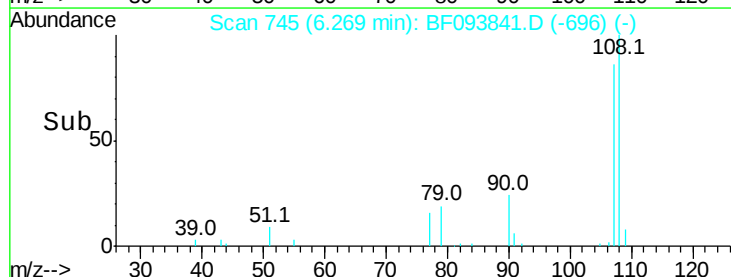
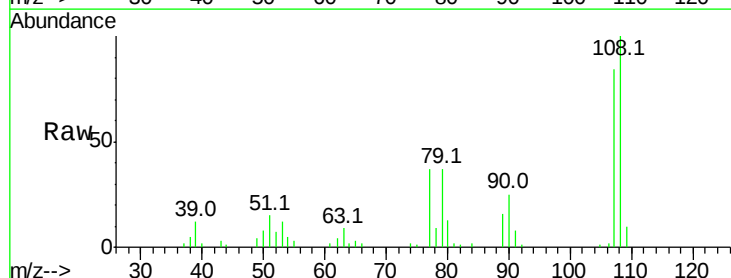
Delta R.T. -0.01 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

Tgt Ion:107 Resp: 22047

Ion	Ratio	Lower	Upper
107	100		
108	118.7	93.4	140.0
77	43.9	35.8	53.6
79	43.3	34.8	52.2



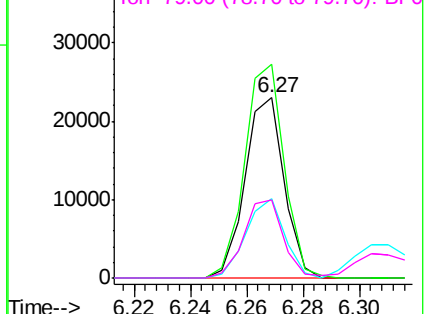
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

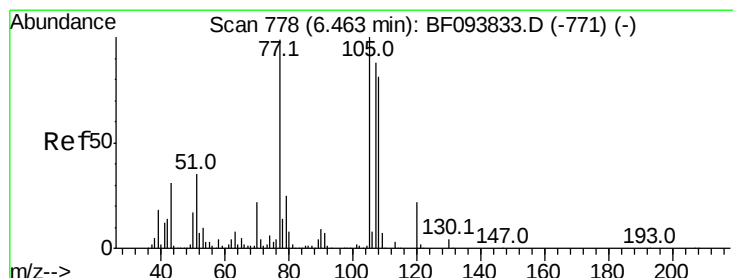
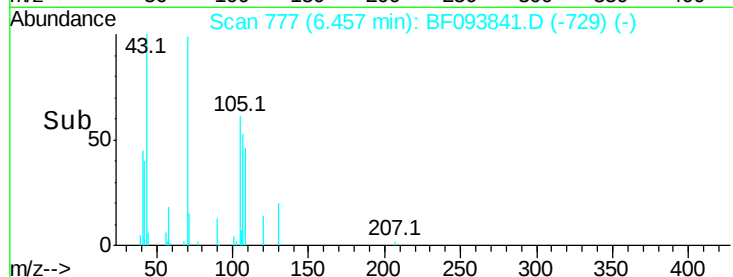
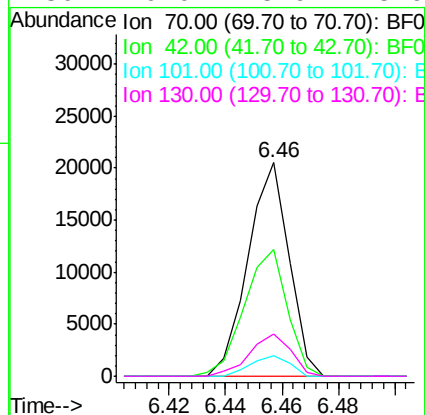
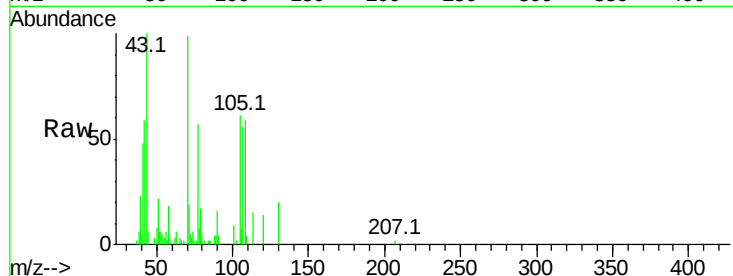




#19
n-Nitroso-di-n-propylamine
Concen: 2.24 ng
RT: 6.46 min Scan# 777
Delta R.T. -0.02 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

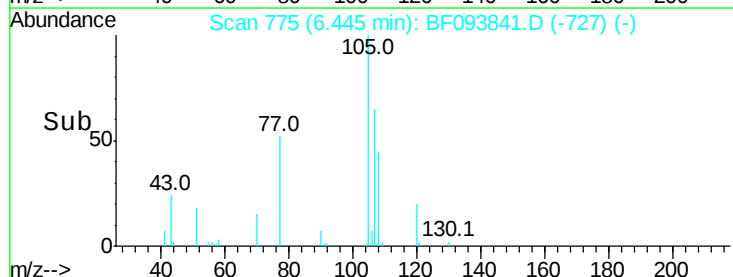
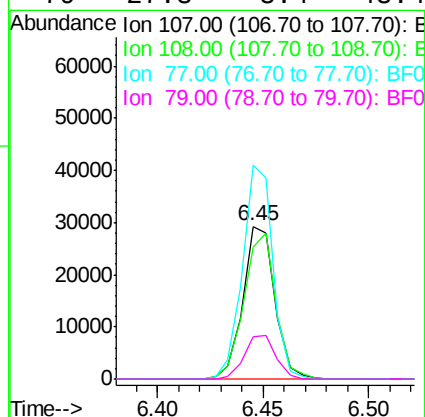
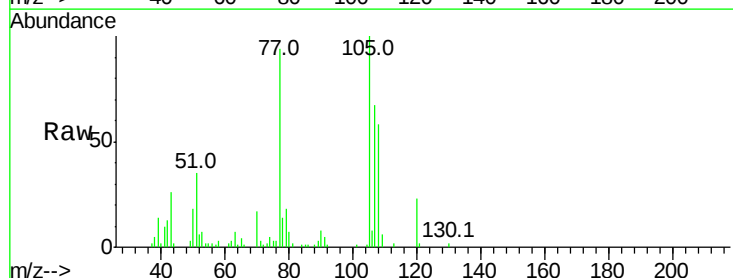
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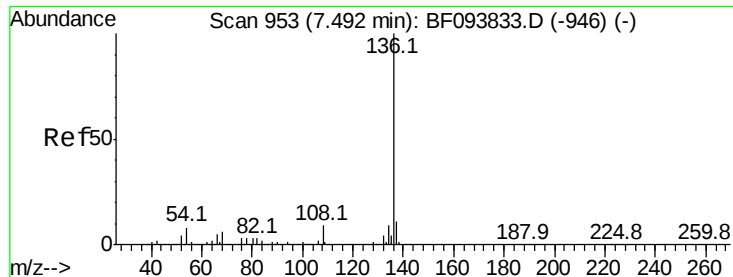
Tot Ion: 70 Resp: 20642
Ion Ratio Lower Upper
70 100
42 59.2 47.2 70.8
101 9.6 7.2 10.8
130 20.0 15.9 23.9



#20
3+4-Methylphenols
Concen: 2.31 ng
RT: 6.45 min Scan# 775
Delta R.T. -0.02 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

Tgt Ion: 107 Resp: 30568
Ion Ratio Lower Upper
107 100
108 86.5 71.0 111.0
77 140.0 90.5 130.5#
79 27.3 8.4 48.4

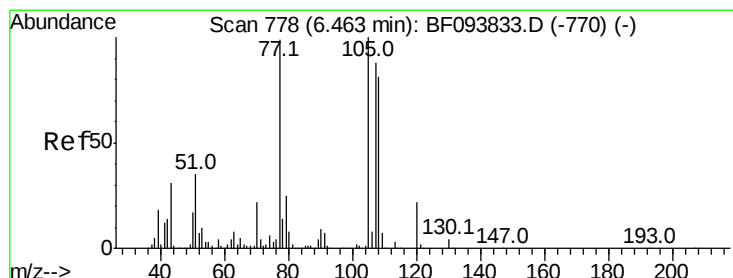
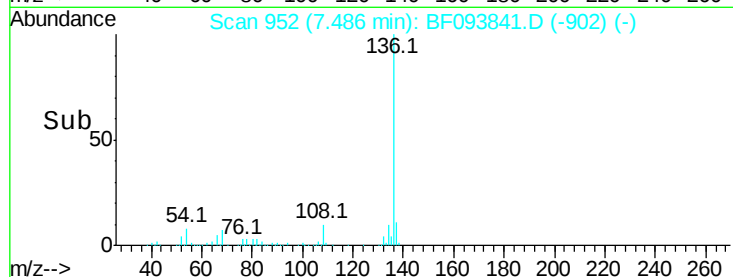
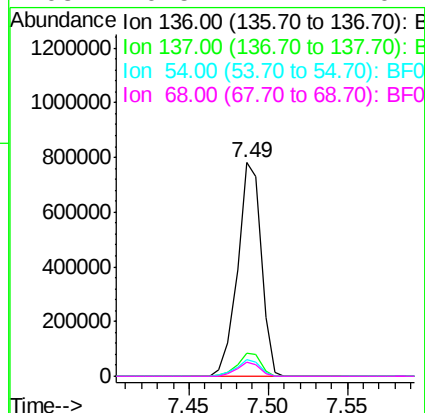
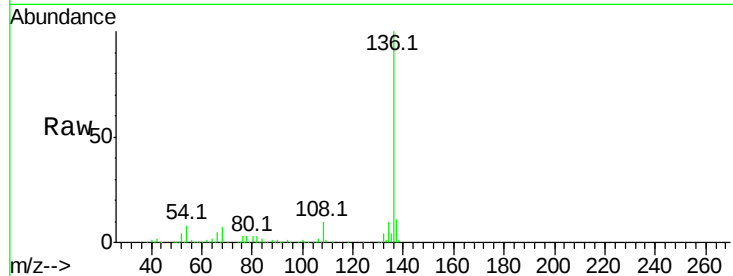




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.49 min Scan# 952
Delta R.T. -0.01 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

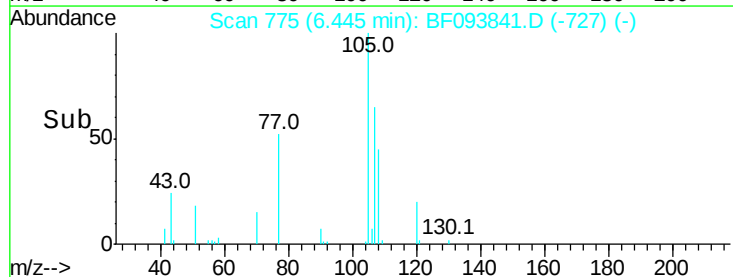
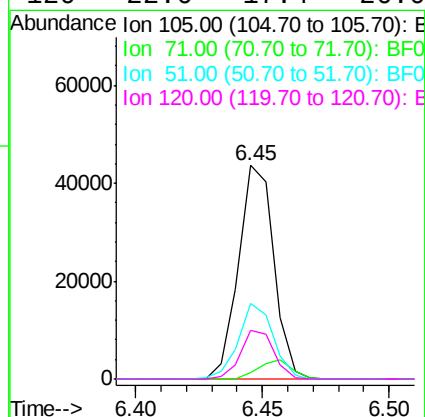
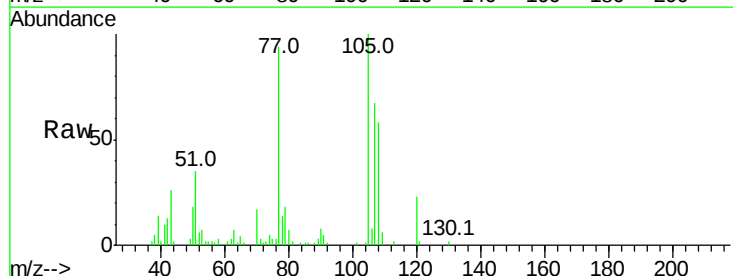
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT2-2017

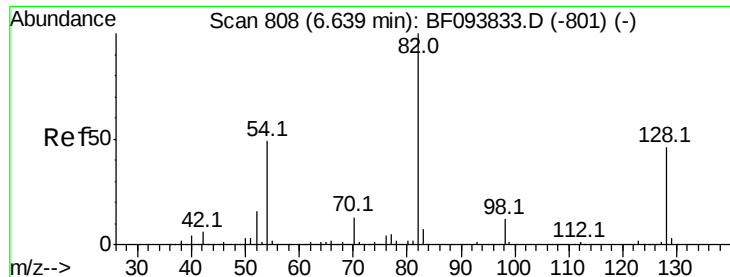
Tot Ion:136	Resp:	806460
Ion Ratio	Lower	Upper
136 100		
137 11.1	8.5	12.7
54 8.0	4.9	7.3#
68 6.5	4.1	6.1#



#22
Acetophenone
Concen: 2.35 ng
RT: 6.45 min Scan# 775
Delta R.T. -0.02 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

Tgt Ion:105	Resp:	42238
Ion Ratio	Lower	Upper
105 100		
71 2.8	2.8	4.2
51 35.2	30.7	46.1
120 22.6	17.4	26.0

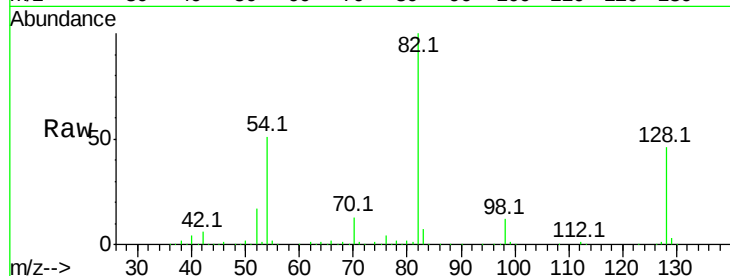




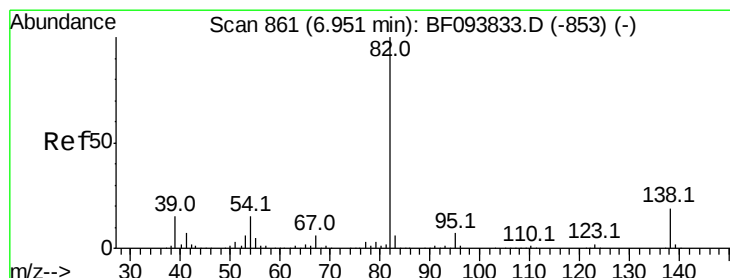
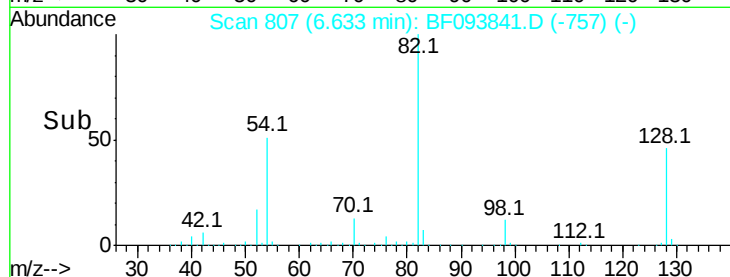
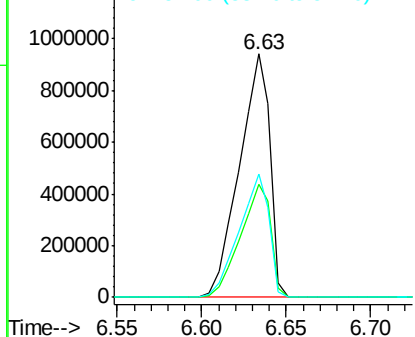
#23
 Nitrobenzene-d5
 Concen: 83.86 ng
 RT: 6.63 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

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

Tot Ion: 82 Resp: 1185034
 Ion Ratio Lower Upper
 82 100
 128 46.3 34.0 51.0
 54 50.8 42.2 63.2

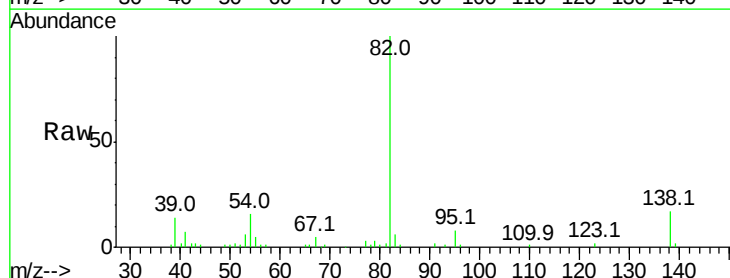


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

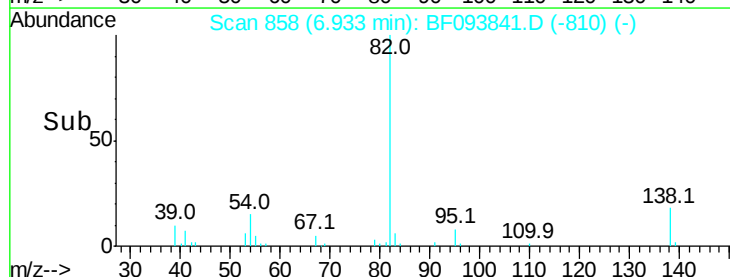
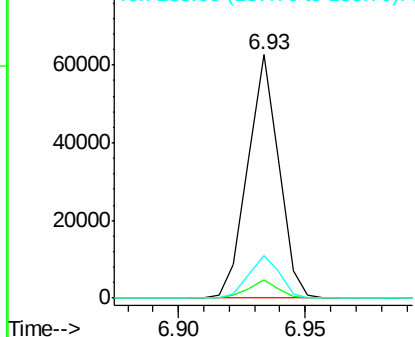


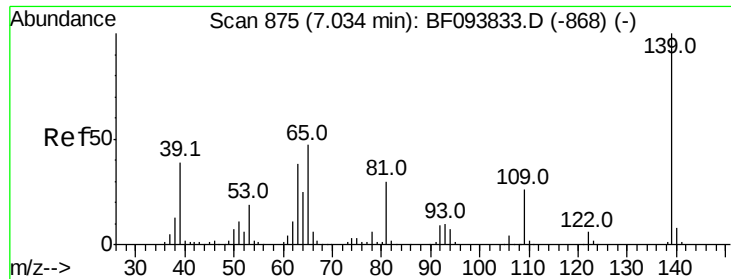
#25
 Isophorone
 Concen: 2.17 ng
 RT: 6.93 min Scan# 858
 Delta R.T. -0.02 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

Tgt Ion: 82 Resp: 53771
 Ion Ratio Lower Upper
 82 100
 95 7.8 5.3 7.9
 138 17.3 13.1 19.7



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

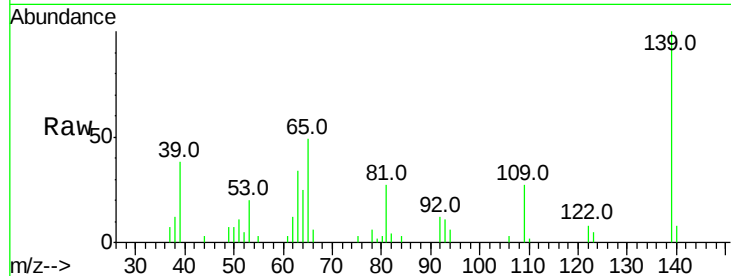




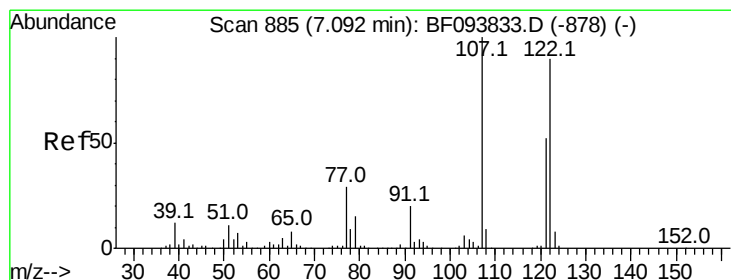
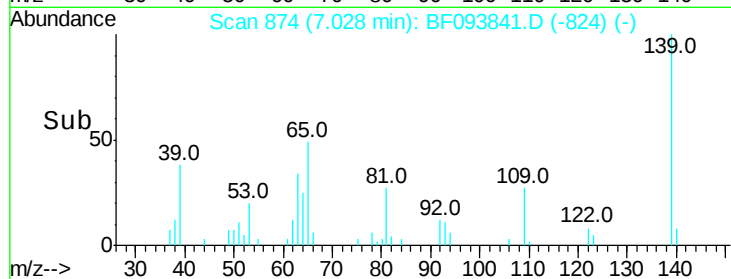
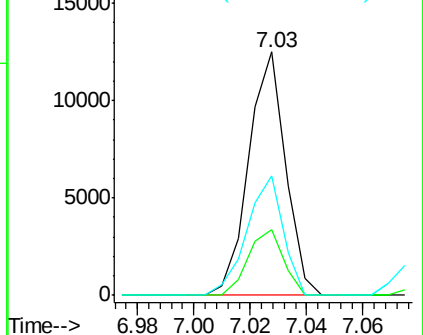
#26
2-Nitrophenol
Concen: 1.70 ng
RT: 7.03 min Scan# 874
Delta R.T. -0.01 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

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

Tot Ion	Ratio	Lower	Upper
139	100		
109	27.2	21.0	31.6
65	49.1	33.0	49.6

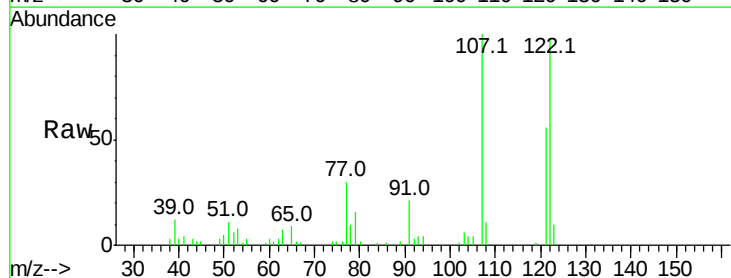


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

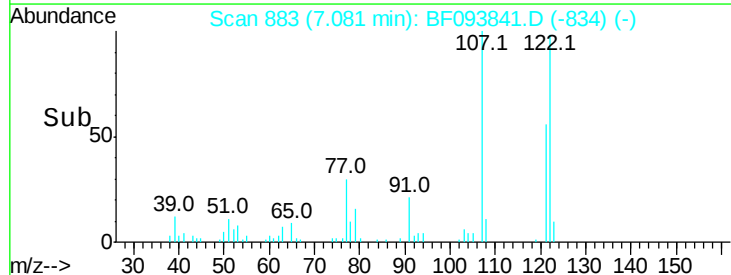
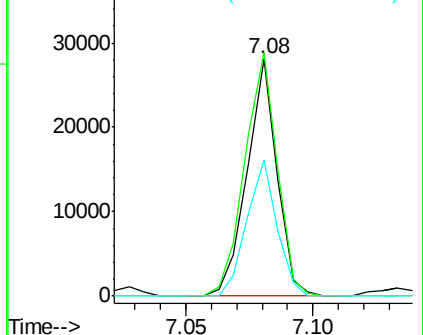


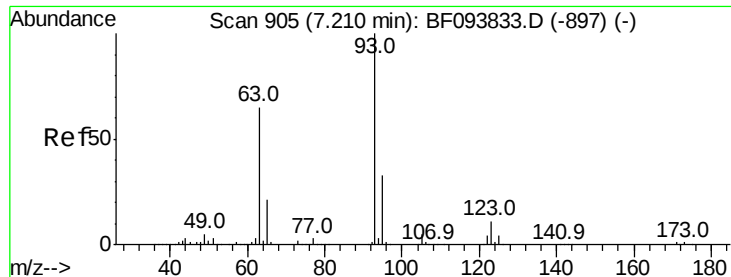
#27
2,4-Dimethylphenol
Concen: 2.02 ng
RT: 7.08 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

Tgt Ion	Ratio	Lower	Upper
122	100		
107	102.6	89.2	133.8
121	57.1	45.2	67.8



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

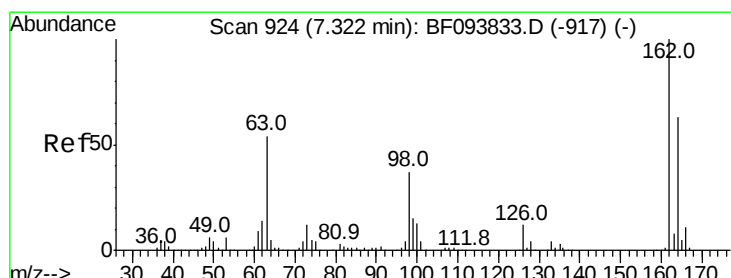
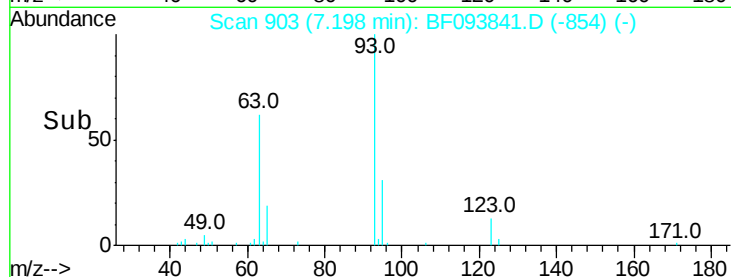
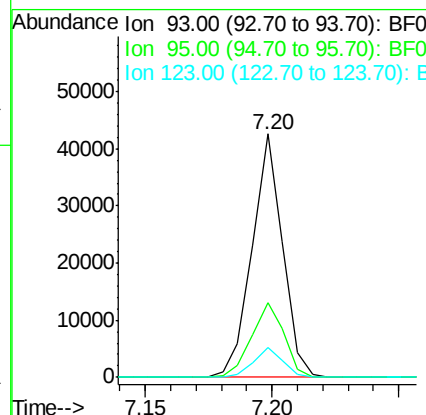
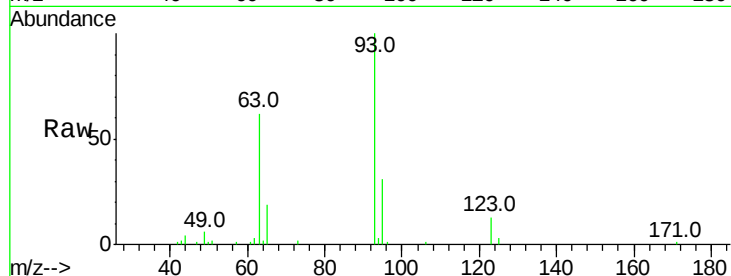




#28
bis(2-Chloroethoxy)methane
Concen: 2.19 ng
RT: 7.20 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

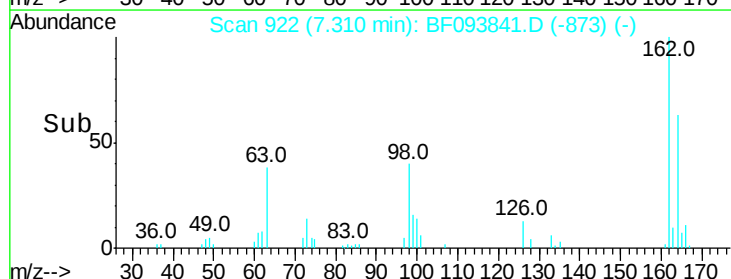
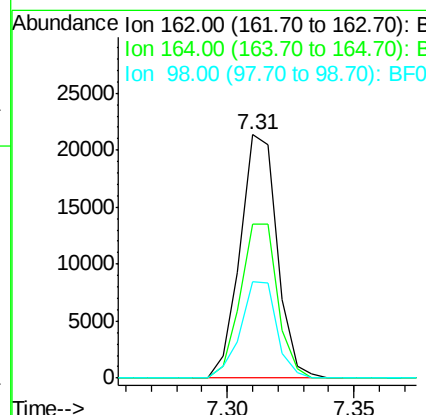
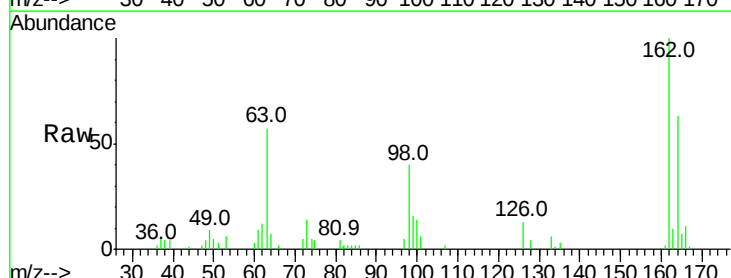
Instrument :
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LOD-SOIL-01-QT2-2017

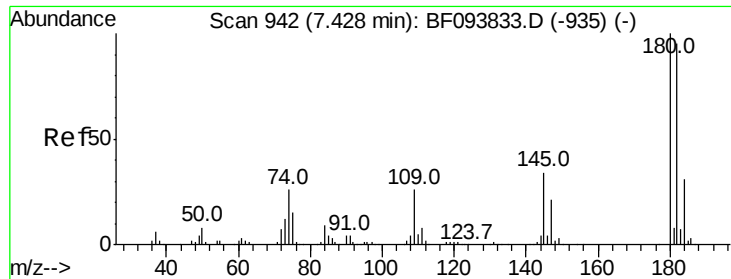
Tot Ion: 93 Resp: 35780
Ion Ratio Lower Upper
93 100
95 30.9 26.5 39.7
123 12.5 9.0 13.4



#29
2,4-Dichlorophenol
Concen: 2.02 ng
RT: 7.31 min Scan# 922
Delta R.T. -0.01 min
Lab File: BF093841.D
Acq: 22 Mar 2017 19:23

Tgt Ion: 162 Resp: 21638
Ion Ratio Lower Upper
162 100
164 63.3 44.6 84.6
98 39.8 14.8 54.8

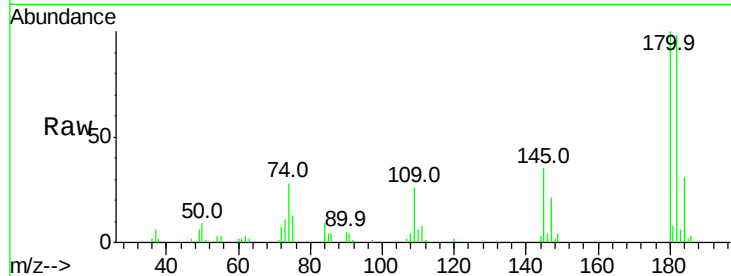




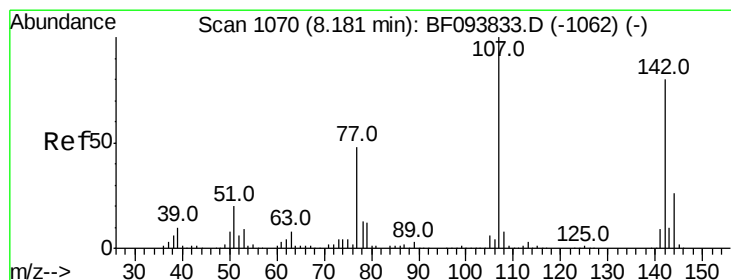
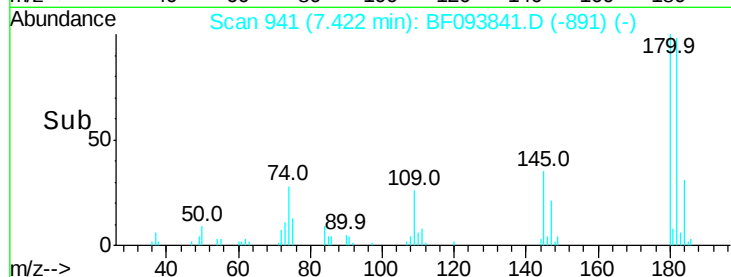
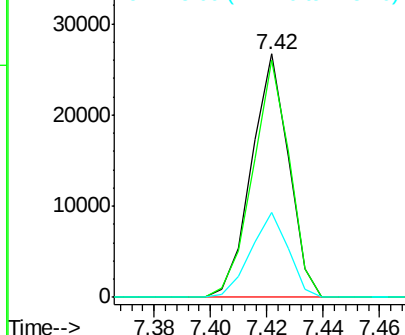
#30
 1,2,4-Trichlorobenzene
 Concen: 2.21 ng
 RT: 7.42 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

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

Tot Ion:180 Resp: 24347
 Ion Ratio Lower Upper
 180 100
 182 97.5 75.8 113.6
 145 35.0 25.3 37.9

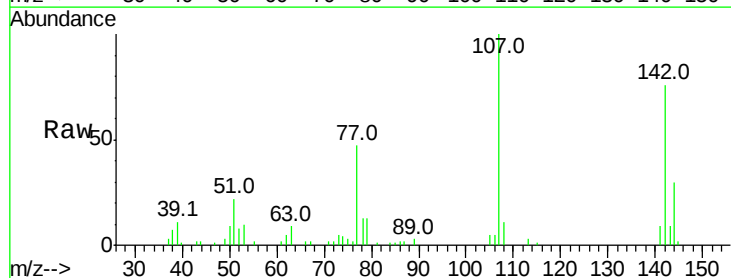


Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

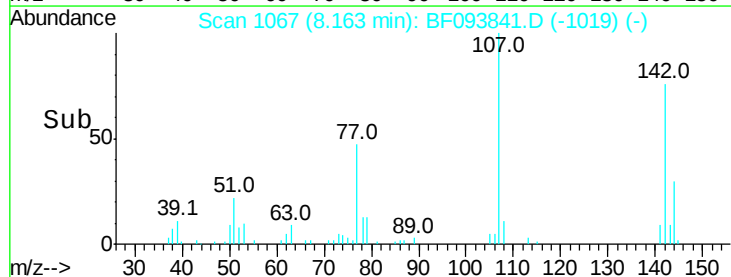
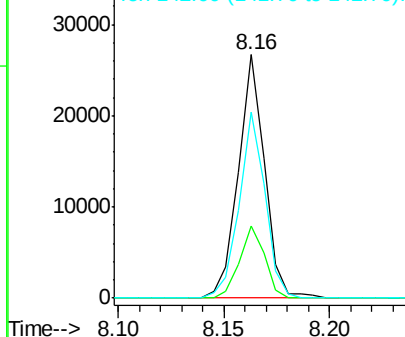


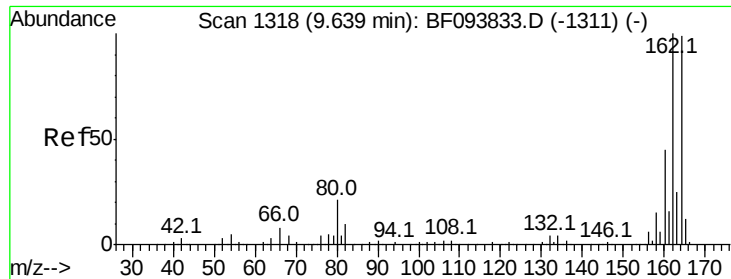
#36
 4-Chloro-3-methylphenol
 Concen: 2.05 ng
 RT: 8.16 min Scan# 1067
 Delta R.T. -0.02 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

Tgt Ion:107 Resp: 22942
 Ion Ratio Lower Upper
 107 100
 144 29.8 24.2 36.4
 142 76.3 73.4 110.0



Abundance Ion 107.00 (106.70 to 107.70): E
 Ion 144.00 (143.70 to 144.70): E
 Ion 142.00 (141.70 to 142.70): E

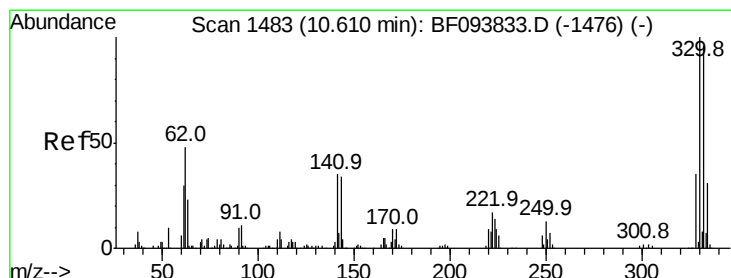
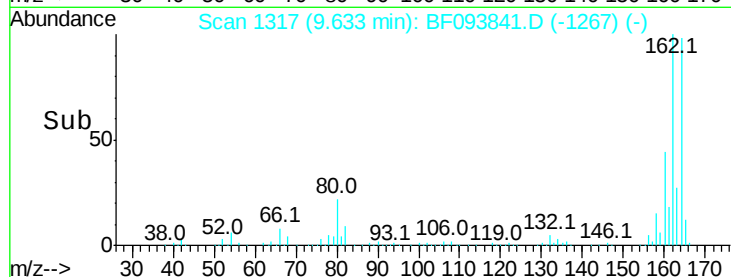
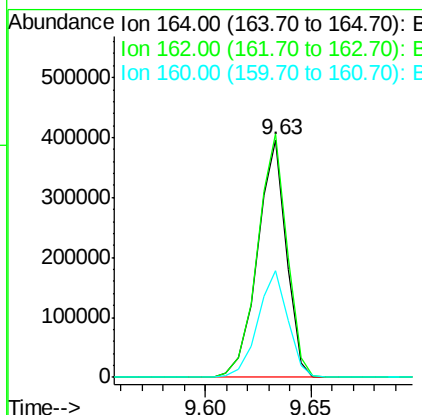
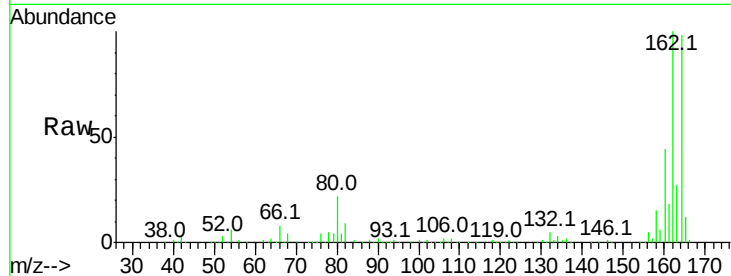




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.63 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

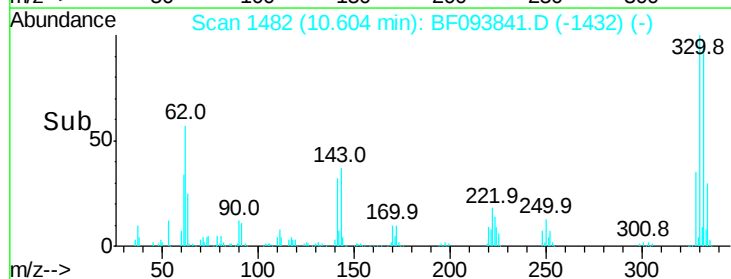
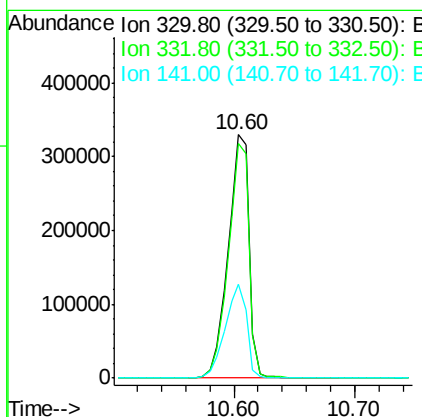
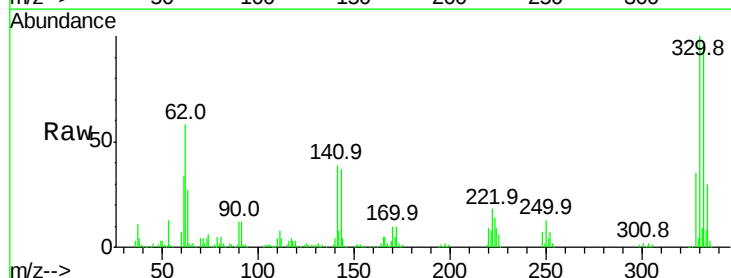
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

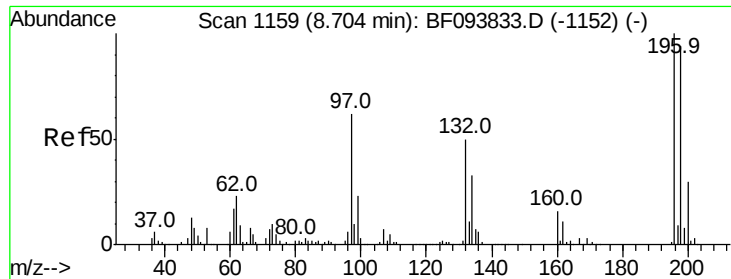
Tot Ion:164 Resp: 376639
 Ion Ratio Lower Upper
 164 100
 162 102.5 82.6 123.8
 160 45.1 36.2 54.2



#41
 2,4,6-Tribromophenol
 Concen: 134.03 ng
 RT: 10.60 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

Tgt Ion:330 Resp: 398909
 Ion Ratio Lower Upper
 330 100
 332 95.6 76.6 115.0
 141 39.6 31.4 47.2

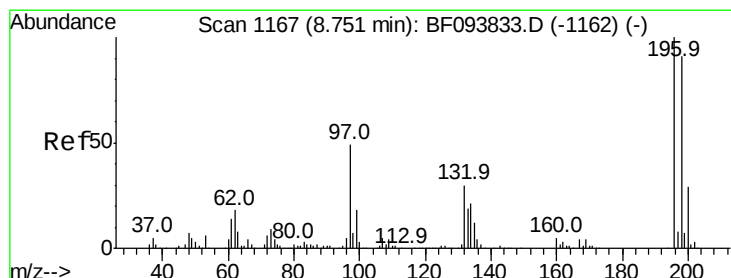
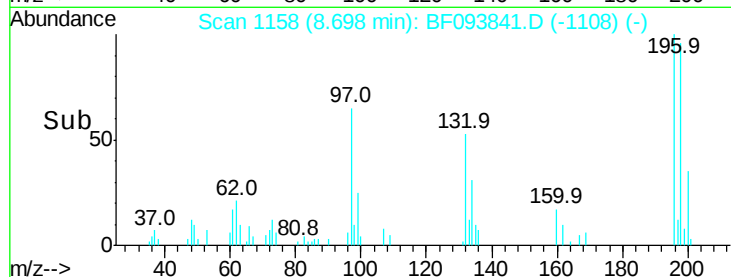
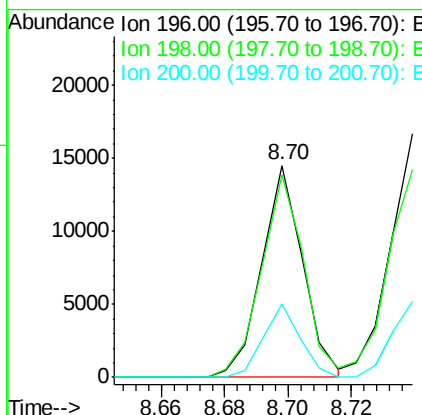
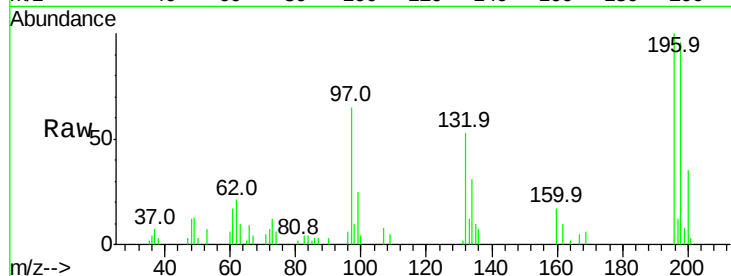




#42
 2,4,6-Trichlorophenol
 Concen: 1.80 ng
 RT: 8.70 min Scan# 1158
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

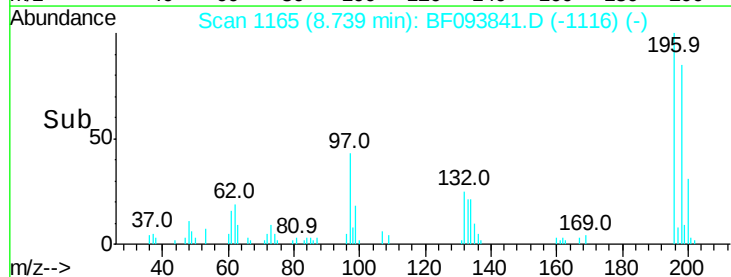
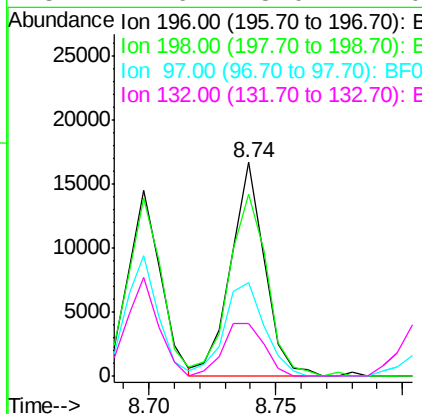
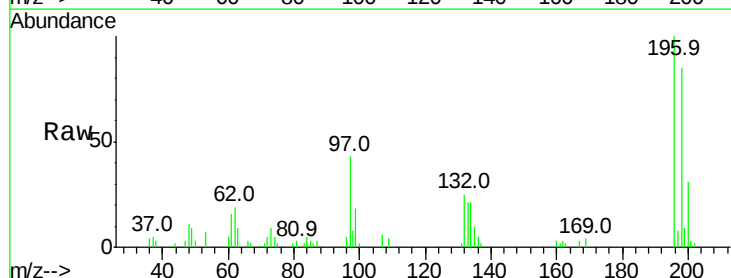
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

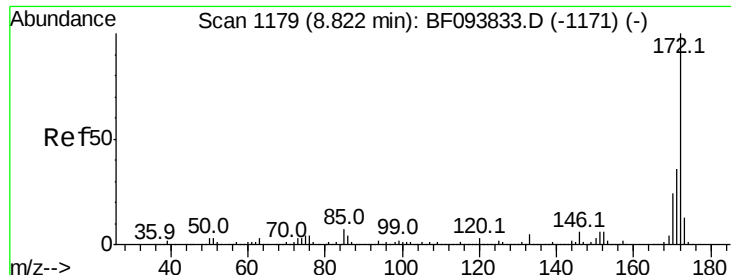
Tot Ion:196 Resp: 13144
 Ion Ratio Lower Upper
 196 100
 198 95.8 74.2 111.4
 200 34.7 24.0 36.0



#43
 2,4,5-Trichlorophenol
 Concen: 1.97 ng
 RT: 8.74 min Scan# 1165
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

Tgt Ion:196 Resp: 15525
 Ion Ratio Lower Upper
 196 100
 198 85.2 75.7 113.5
 97 43.5 47.7 71.5#
 132 24.6 28.0 42.0#





#44

2-Fluorobiphenyl

Concen: 83.99 ng

RT: 8.82 min Scan# 1178

Delta R.T. -0.01 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

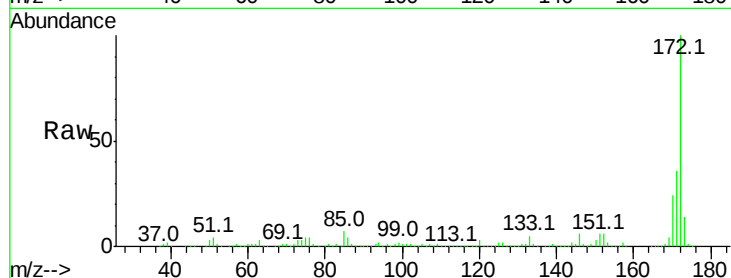
Tot Ion:172 Resp: 2073973

Ion Ratio Lower Upper

172 100

171 36.5 29.6 44.4

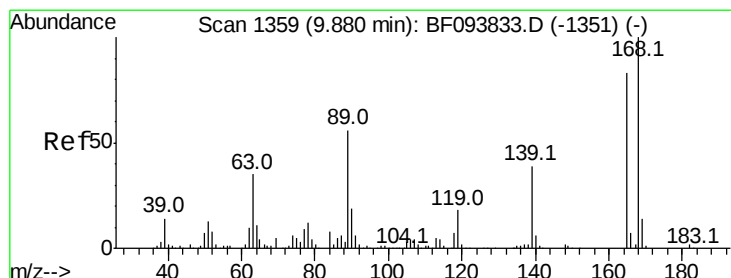
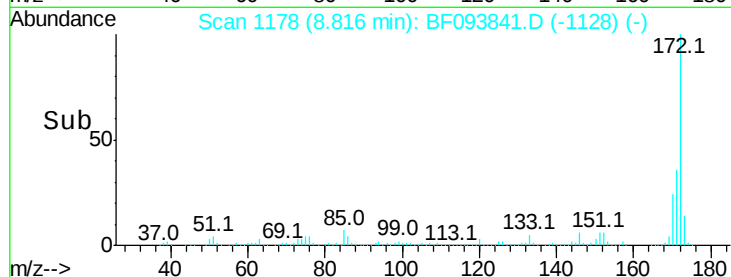
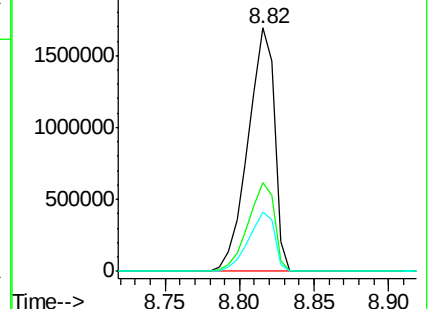
170 24.2 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#56

2,4-Dinitrotoluene

Concen: 1.85 ng

RT: 9.86 min Scan# 1356

Delta R.T. -0.02 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

Tgt Ion:165 Resp: 14278

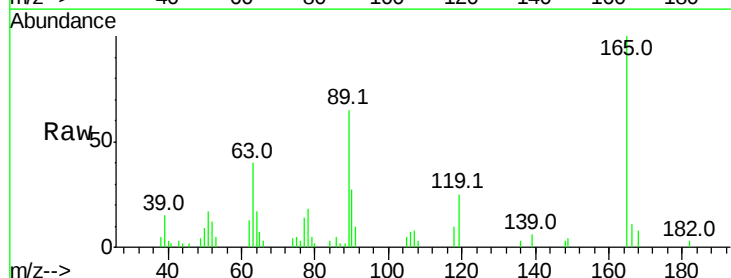
Ion Ratio Lower Upper

165 100

63 39.8 25.4 38.0#

89 64.9 46.4 69.6

182 3.2 1.8 2.6#

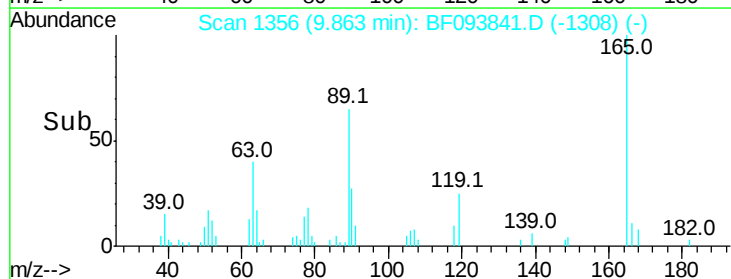
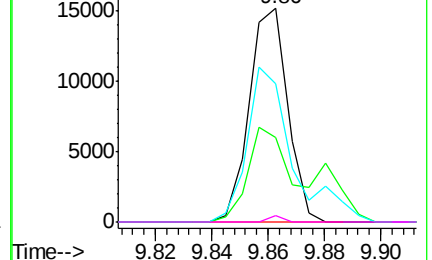


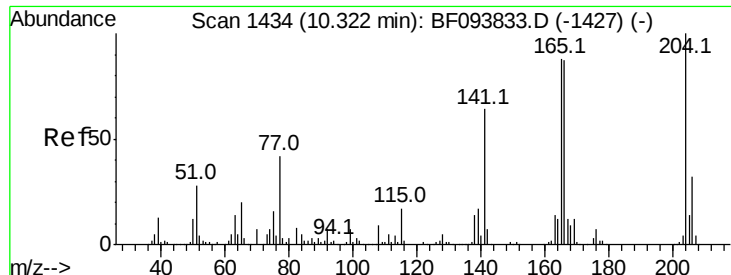
Abundance Ion 165.00 (164.70 to 165.70): E

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

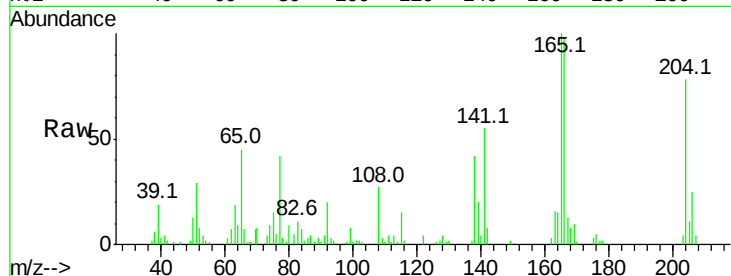




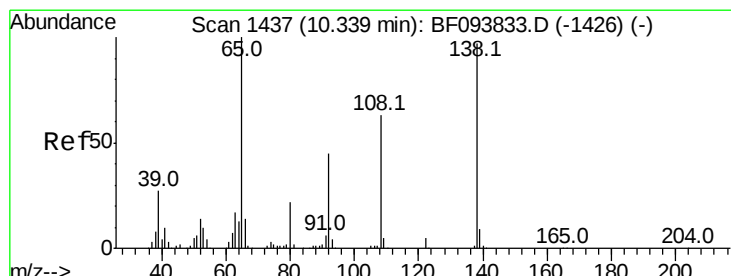
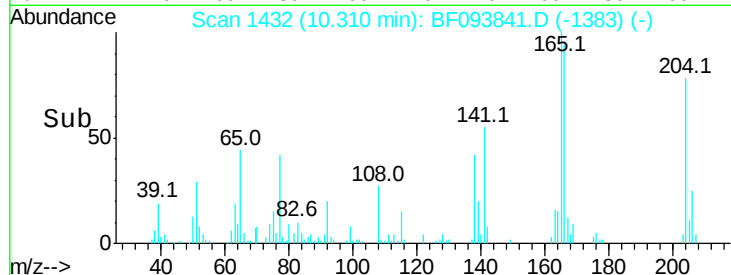
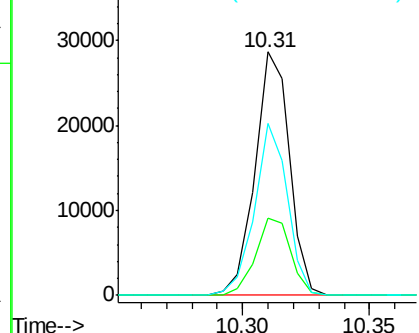
#60
 4-Chlorophenyl-phenylether
 Concen: 2.45 ng
 RT: 10.31 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

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

Tot Ion:204 Resp: 27150
 Ion Ratio Lower Upper
 204 100
 206 31.8 26.2 39.2
 141 70.8 60.8 91.2

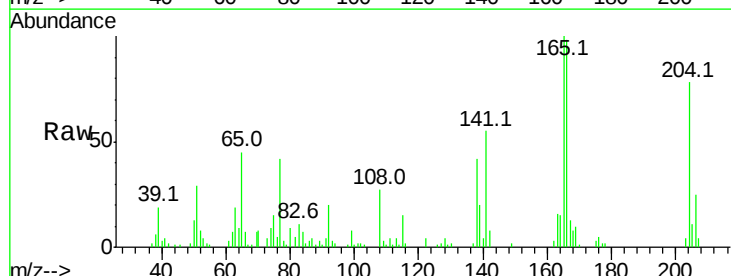


Abundance Ion 204.00 (203.70 to 204.70): E
 Ion 206.00 (205.70 to 206.70): E
 Ion 141.00 (140.70 to 141.70): E

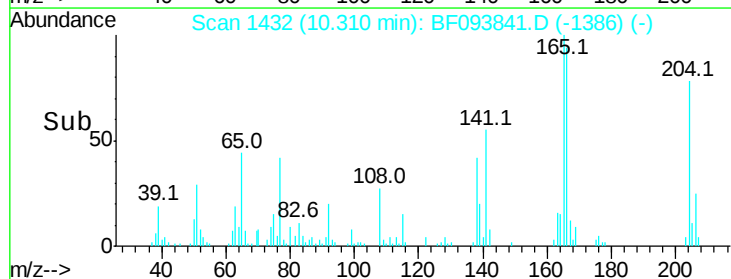
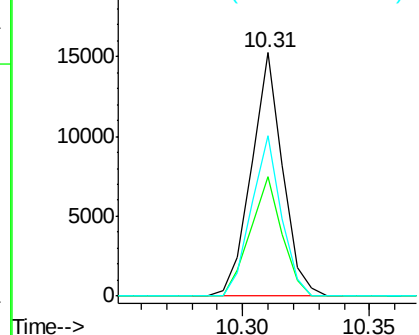


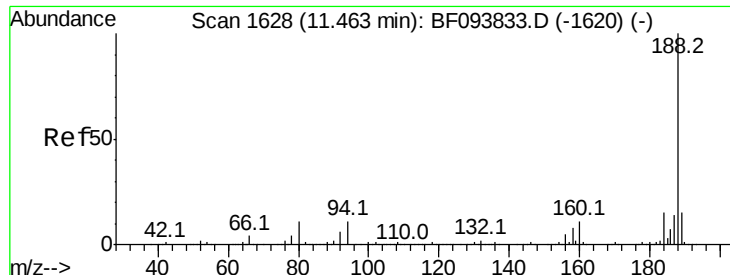
#61
 4-Nitroaniline
 Concen: 1.89 ng
 RT: 10.31 min Scan# 1432
 Delta R.T. -0.03 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

Tgt Ion:138 Resp: 13096
 Ion Ratio Lower Upper
 138 100
 92 49.3 21.8 61.8
 108 65.7 42.3 82.3



Abundance Ion 138.00 (137.70 to 138.70): E
 Ion 92.00 (91.70 to 92.70): BF0
 Ion 108.00 (107.70 to 108.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.46 min Scan# 1627

Delta R.T. -0.01 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

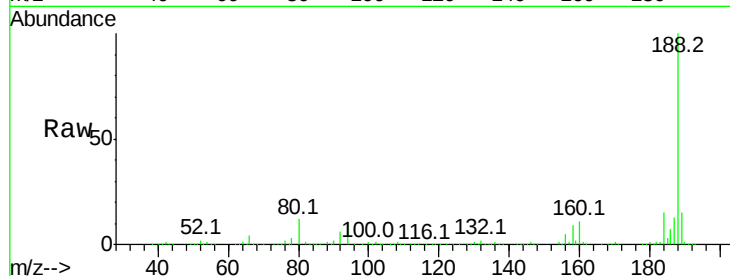
Tot Ion:188 Resp: 666828

Ion Ratio Lower Upper

188 100

94 10.8 9.4 14.2

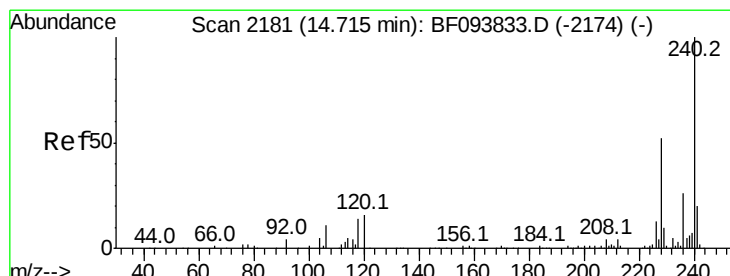
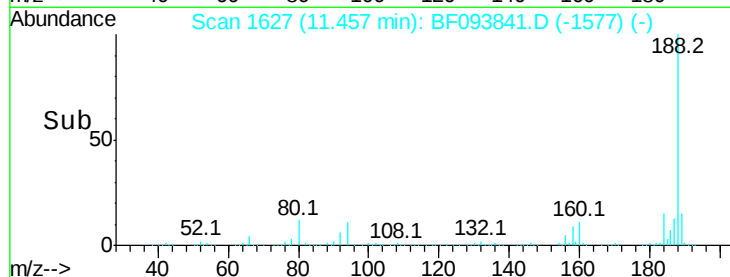
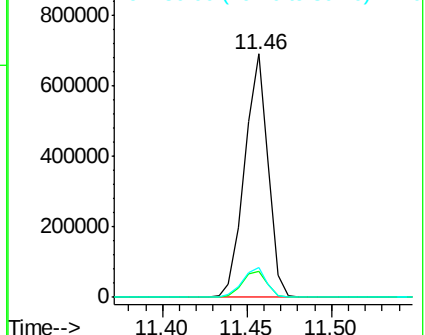
80 12.1 10.2 15.2



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.71 min Scan# 2180

Delta R.T. -0.01 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

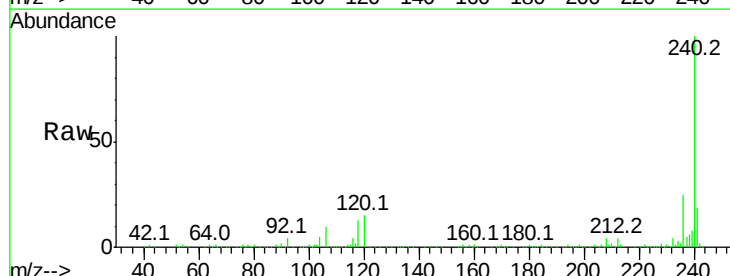
Tgt Ion:240 Resp: 566637

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

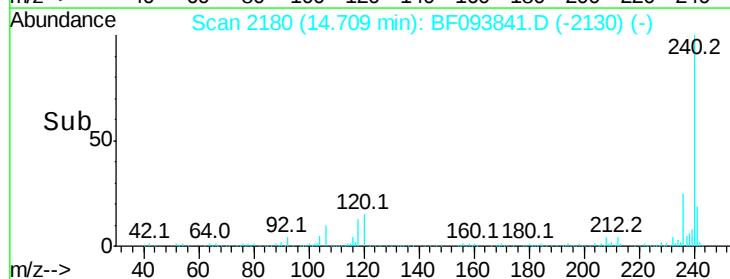
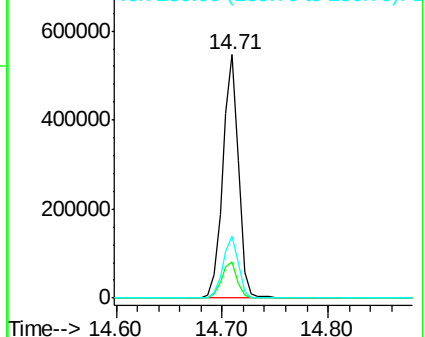
236 25.3 20.5 30.7

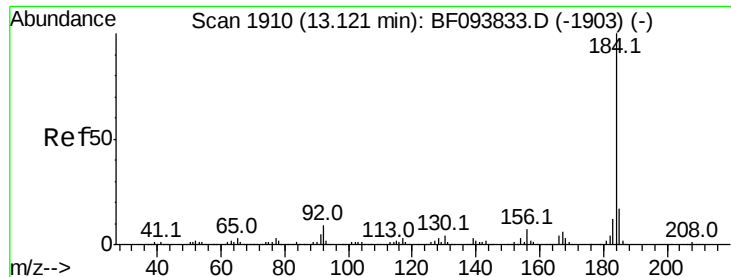


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 1.53 ng

RT: 13.11 min Scan# 1908

Delta R.T. -0.01 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

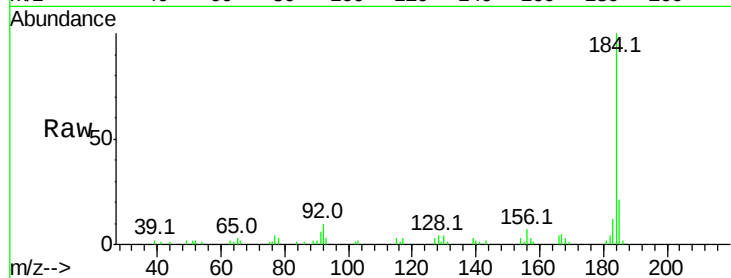
Tot Ion:184 Resp: 34240

Ion Ratio Lower Upper

184 100

185 21.2 15.5 23.3

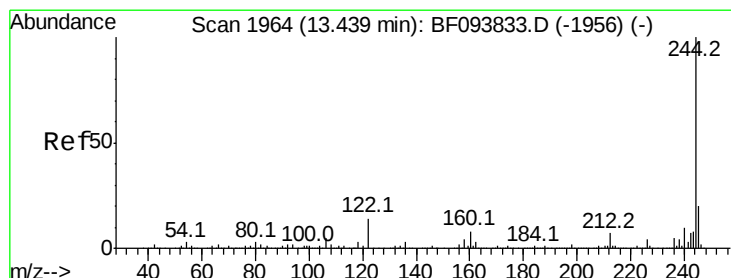
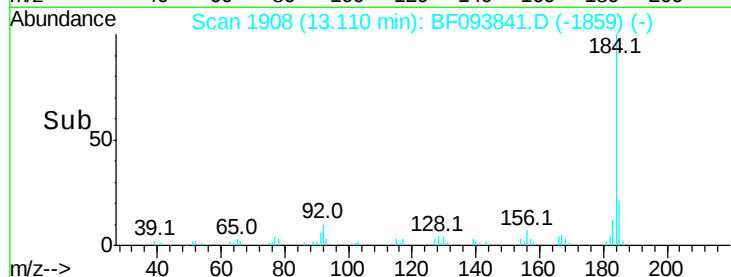
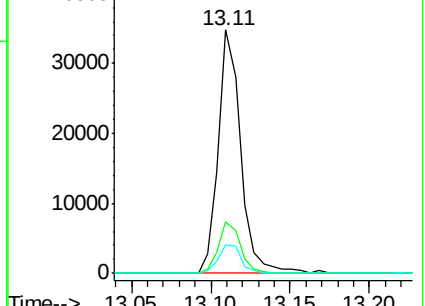
183 11.8 9.8 14.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 70.04 ng

RT: 13.44 min Scan# 1965

Delta R.T. 0.01 min

Lab File: BF093841.D

Acq: 22 Mar 2017 19:23

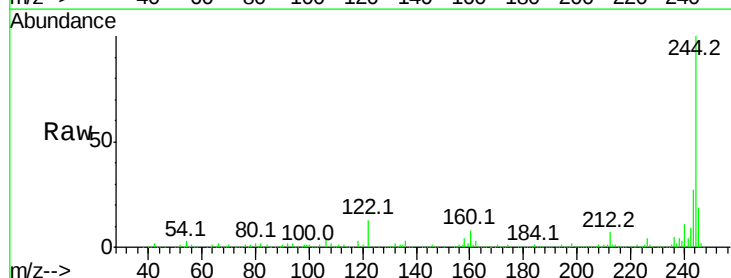
Tgt Ion:244 Resp: 1770621

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

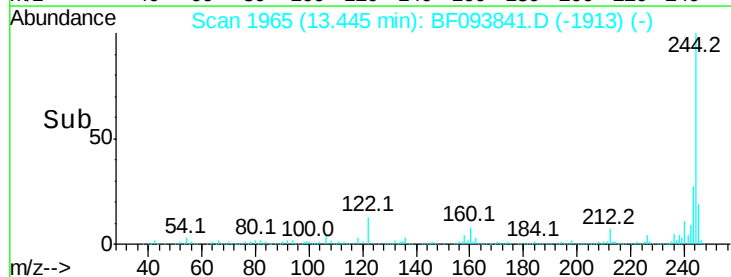
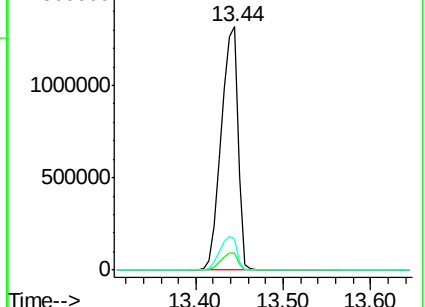
122 12.8 10.3 15.5

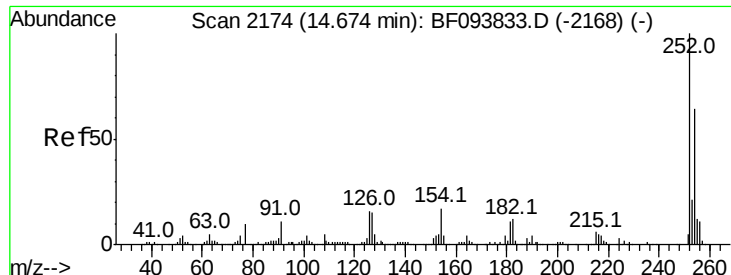


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

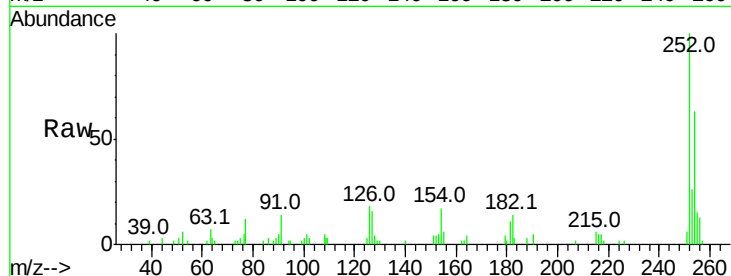




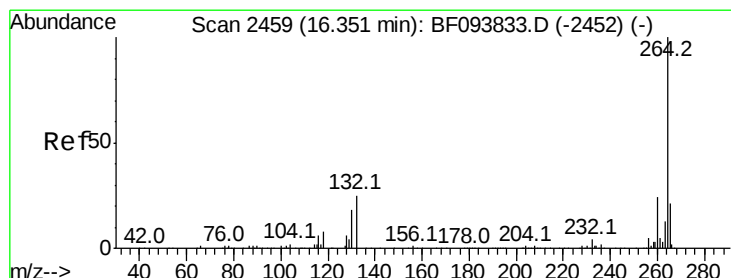
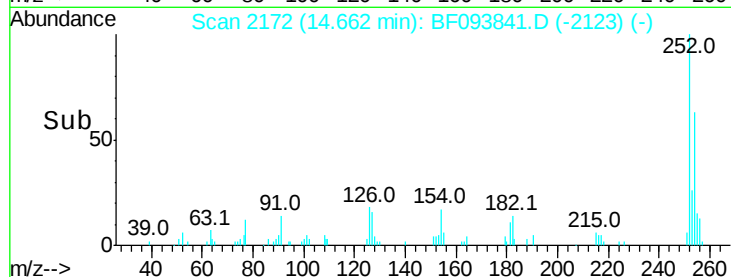
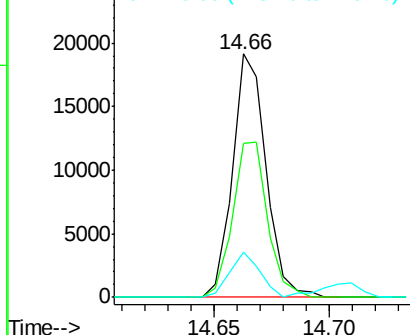
#81
 3,3'-Dichlorobenzidine
 Concen: 1.63 ng
 RT: 14.66 min Scan# 2172
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

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

Tot Ion	Ratio	Lower	Upper
252	100		
254	63.5	51.5	77.3
126	18.3	15.8	23.8

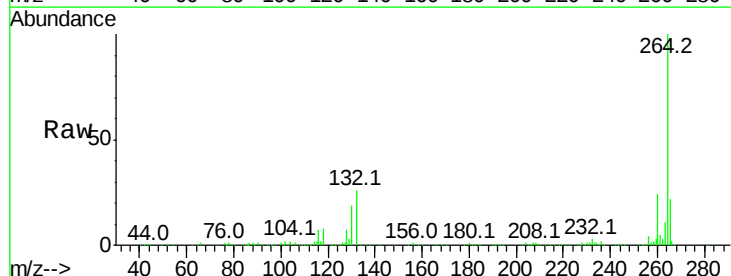


Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 254.00 (253.70 to 254.70): E
 Ion 126.00 (125.70 to 126.70): E



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.34 min Scan# 2458
 Delta R.T. -0.01 min
 Lab File: BF093841.D
 Acq: 22 Mar 2017 19:23

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	21.7	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

