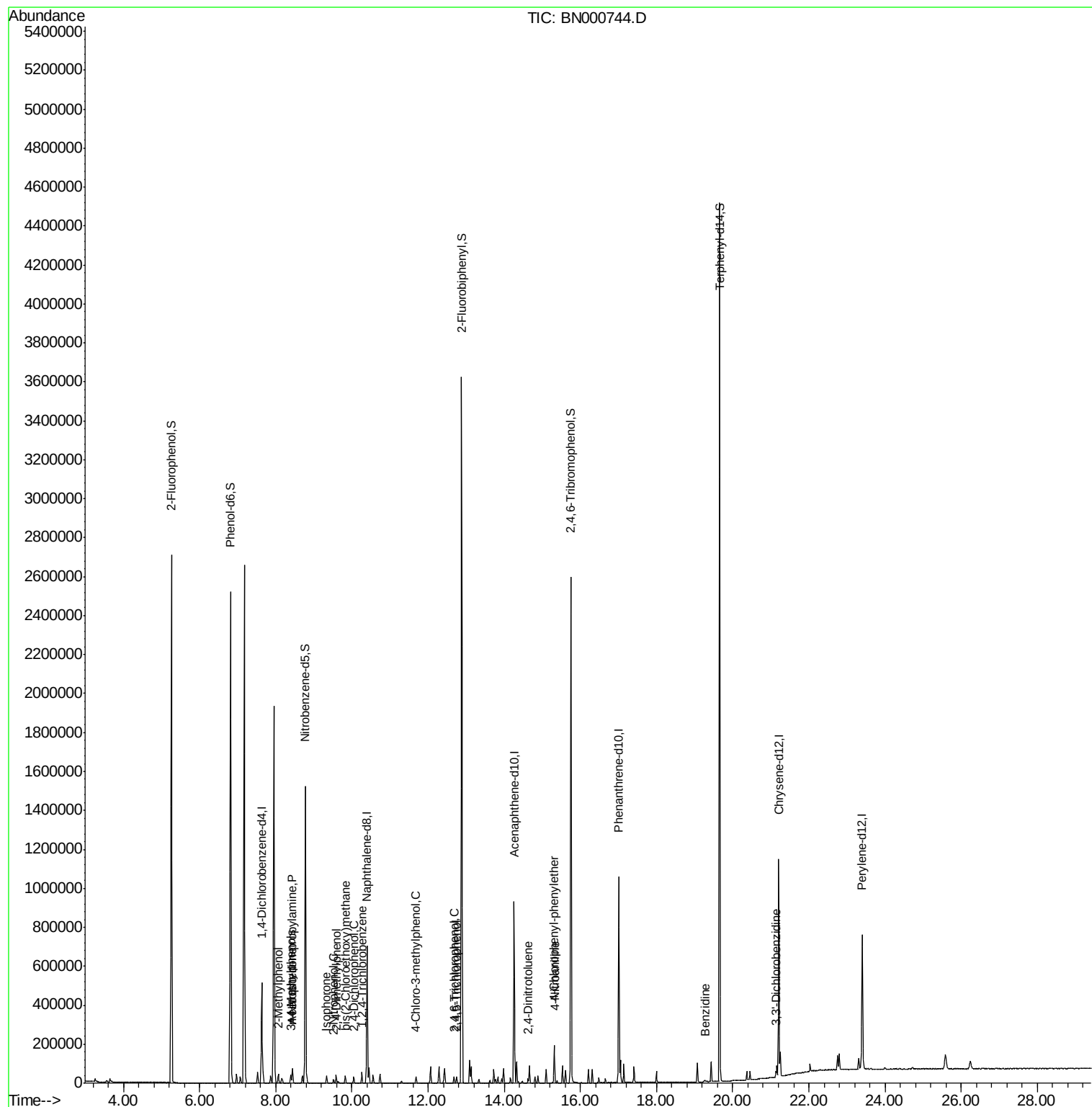
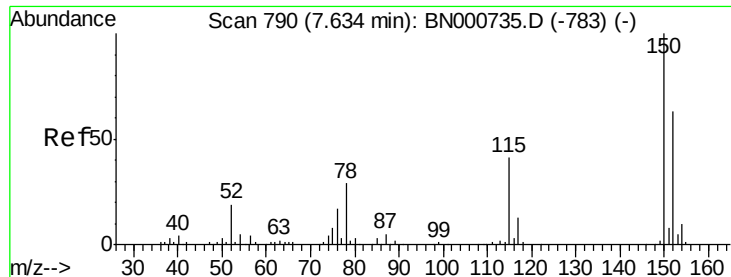


Data Path : Z:\HPCHEM1\BNA N\DATA\BN041818\
Data File : BN000744.D
Acq On : 18 Apr 2018 17:56
Operator : JU/SJ
Sample : J2133-01
Misc : 2PPM LOD
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

Quant Time: Apr 19 04:54:59 2018
Quant Method : Z:\HPCHEM1\BNA N\METHODS\8270-BN041818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 18 16:58:01 2018
Response via : Initial Calibration



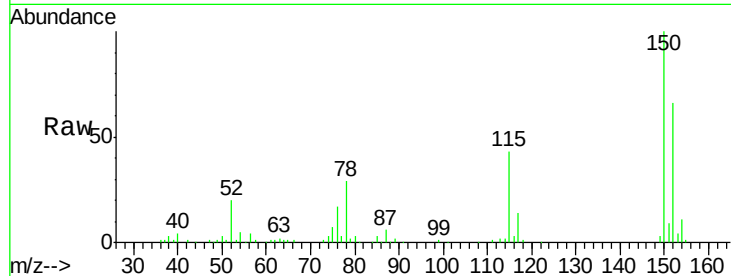


#1

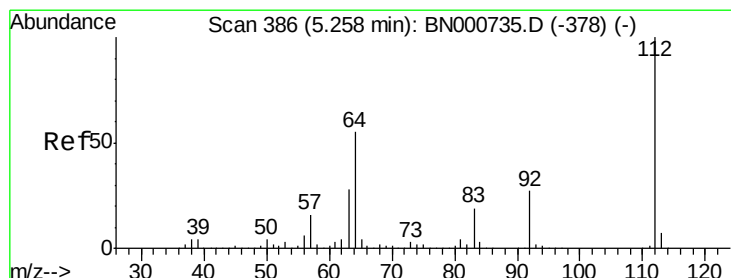
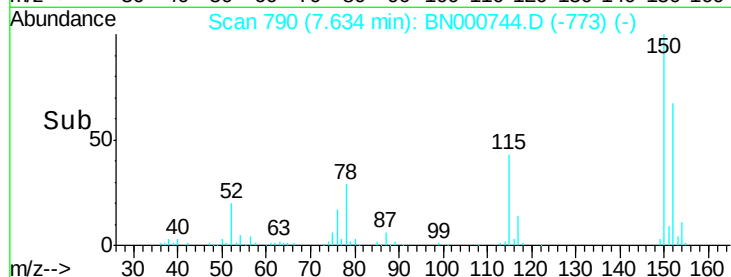
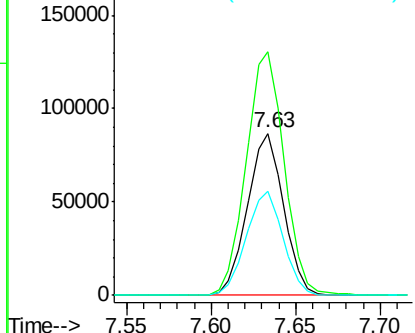
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.63 min Scan# 790
Delta R.T. -0.00 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

Tot Ion:152 Resp: 129558
Ion Ratio Lower Upper
152 100
150 150.5 126.6 189.8
115 64.6 53.0 79.4



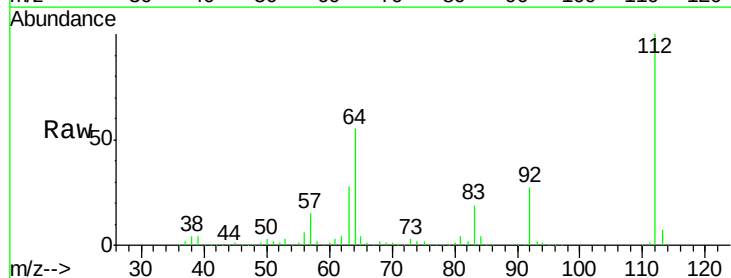
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



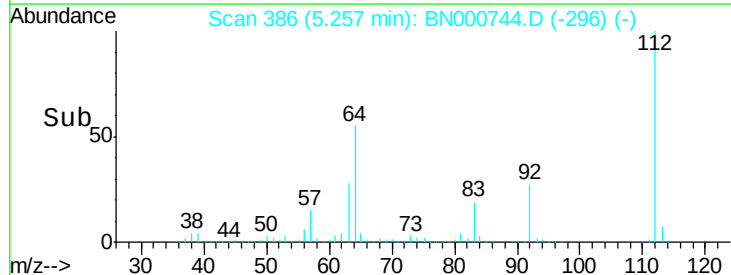
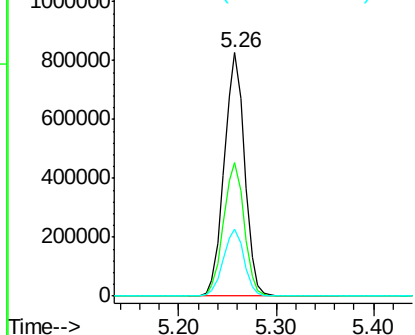
#5

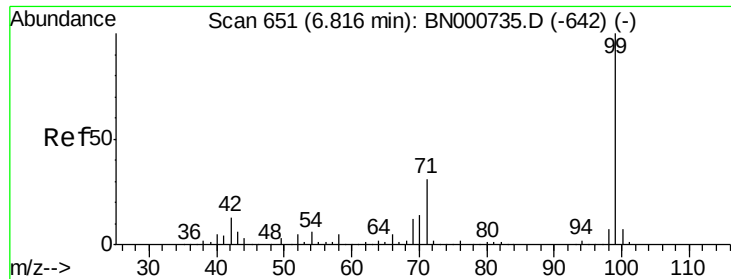
2-Fluorophenol
Concen: 137.365 ng
RT: 5.26 min Scan# 386
Delta R.T. -0.00 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

Tgt Ion:112 Resp: 1198037
Ion Ratio Lower Upper
112 100
64 55.1 56.3 84.5#
63 27.6 30.1 45.1#



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





#7

Phenol-d6

Concen: 134.589 ng

RT: 6.82 min Scan# 651

Delta R.T. -0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

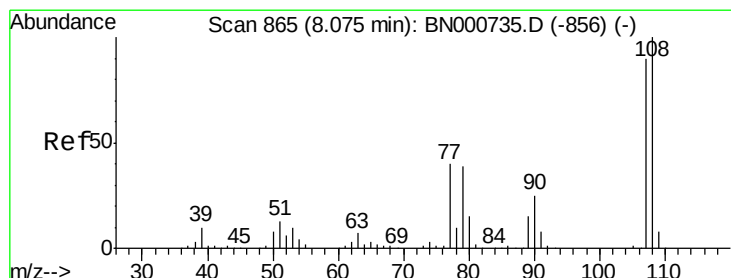
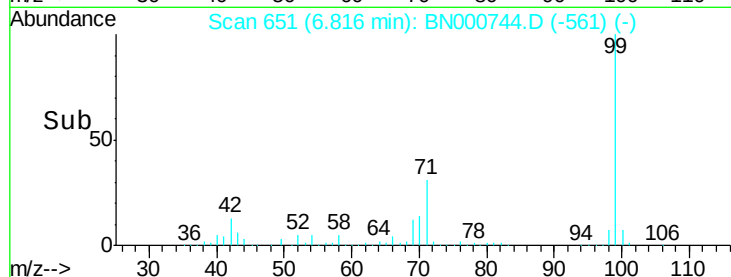
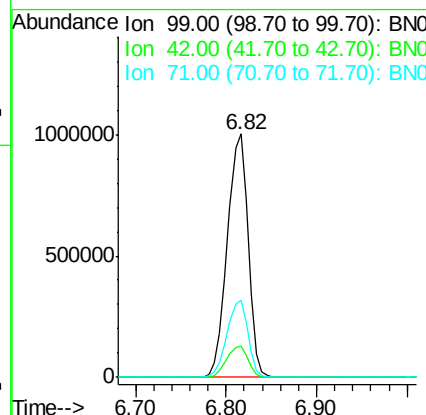
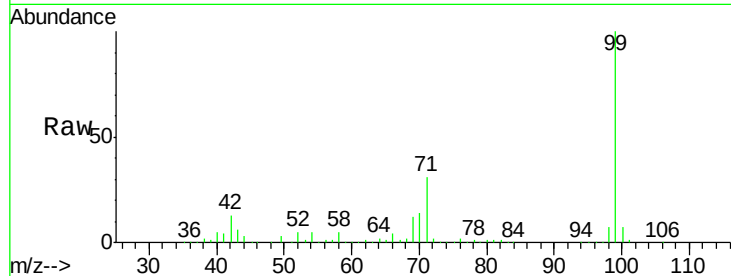
BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

Tot Ion: 99 Resp: 1599623

Ion	Ratio	Lower	Upper
99	100		
42	12.7	14.1	21.1#
71	31.5	26.1	39.1



#17

2-Methylphenol

Concen: 1.741 ng

RT: 8.07 min Scan# 864

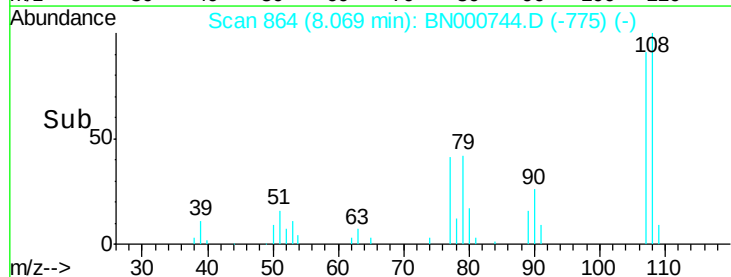
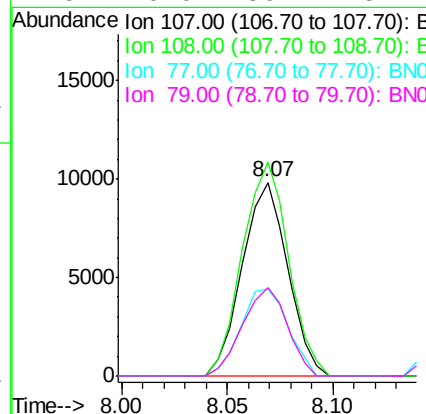
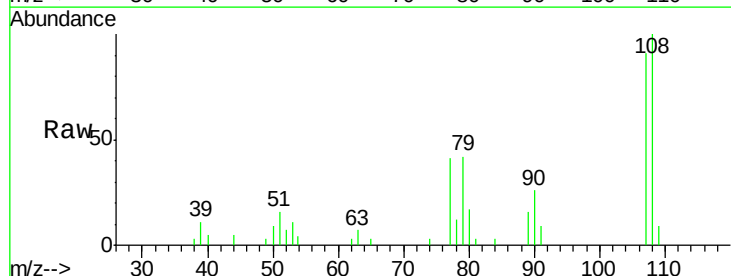
Delta R.T. -0.01 min

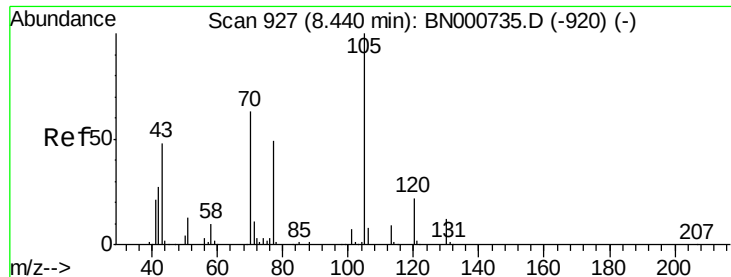
Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Tgt Ion:107 Resp: 14664

Ion	Ratio	Lower	Upper
107	100		
108	110.4	83.9	125.9
77	45.3	37.2	55.8
79	46.0	36.2	54.2

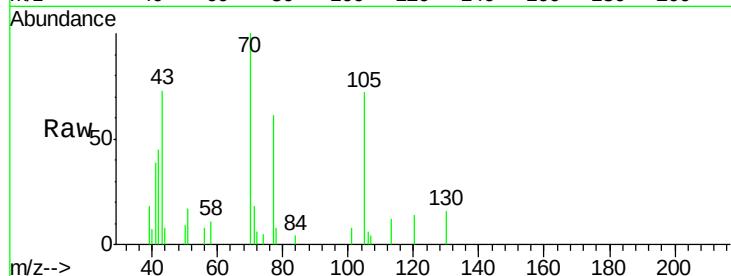




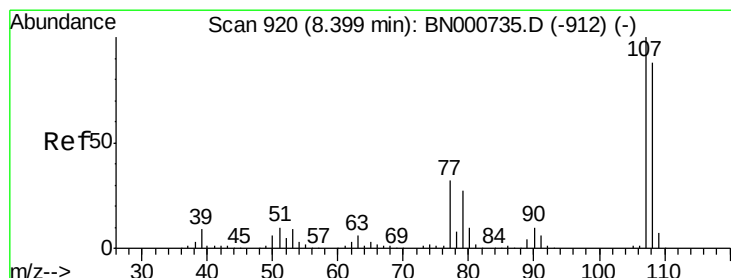
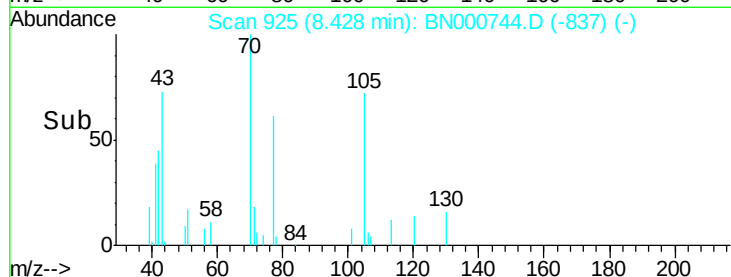
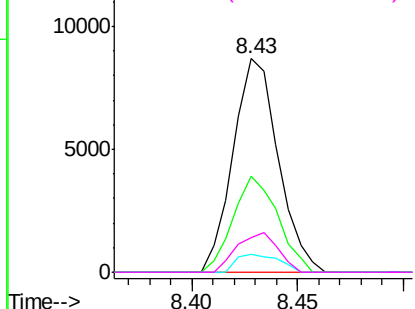
#19
n-Nitroso-di-n-propylamine
Concen: 1.742 ng
RT: 8.43 min Scan# 925
Delta R.T. -0.01 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

Tot Ion: 70 Resp: 12880
Ion Ratio Lower Upper
70 100
42 44.9 49.1 73.7#
101 8.4 8.5 12.7#
130 16.1 13.4 20.0



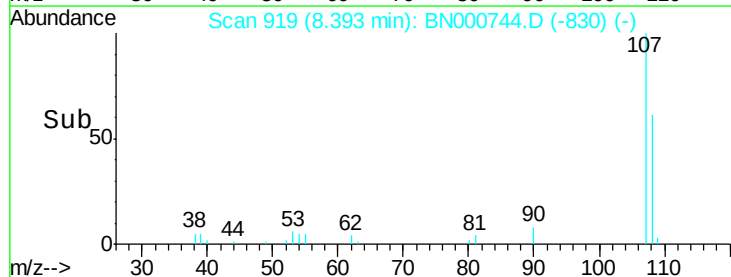
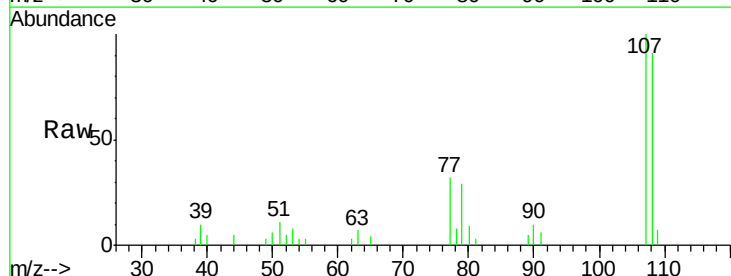
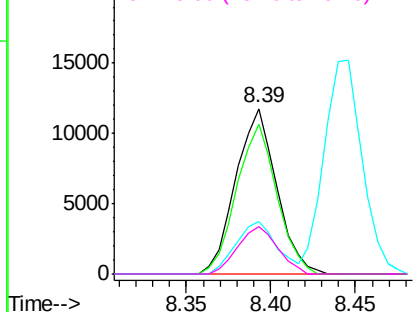
Abundance Ion 70.00 (69.70 to 70.70): BN0
Ion 42.00 (41.70 to 42.70): BN0
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E

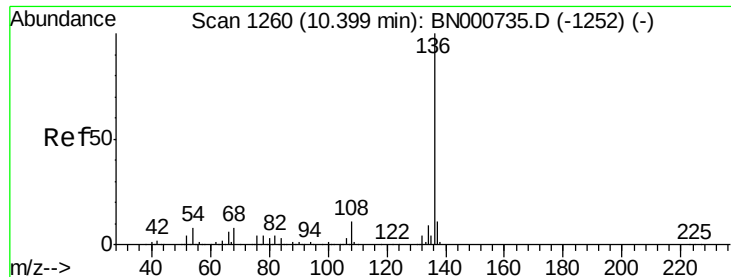


#20
3+4-Methylphenols
Concen: 1.711 ng
RT: 8.39 min Scan# 919
Delta R.T. -0.01 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

Tgt Ion:107 Resp: 19799
Ion Ratio Lower Upper
107 100
108 91.0 61.6 101.6
77 31.8 13.9 53.9
79 28.7 8.8 48.8

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): BN0
Ion 79.00 (78.70 to 79.70): BN0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.40 min Scan# 1260

Delta R.T. -0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

Tot Ion:136 Resp: 558944

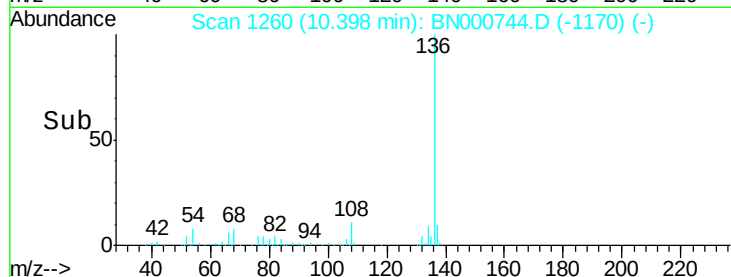
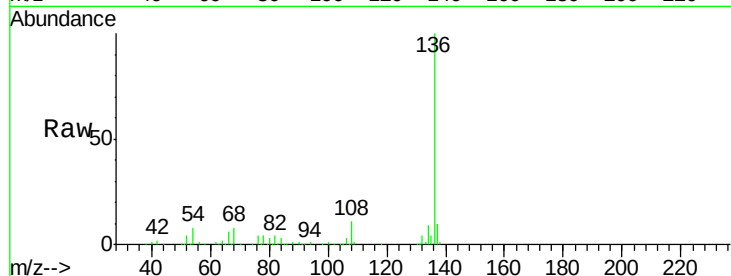
Ion Ratio Lower Upper

136 100

137 10.4 9.2 13.8

54 7.6 10.3 15.5#

68 7.7 4.5 6.7#

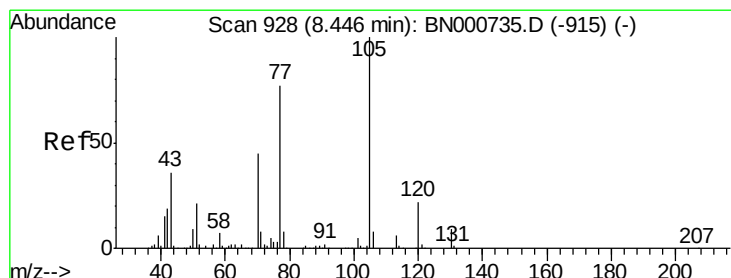
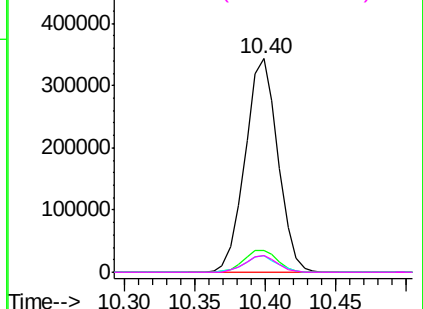


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#22

Acetophenone

Concen: 1.886 ng

RT: 8.45 min Scan# 928

Delta R.T. -0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Tgt Ion:105 Resp: 30199

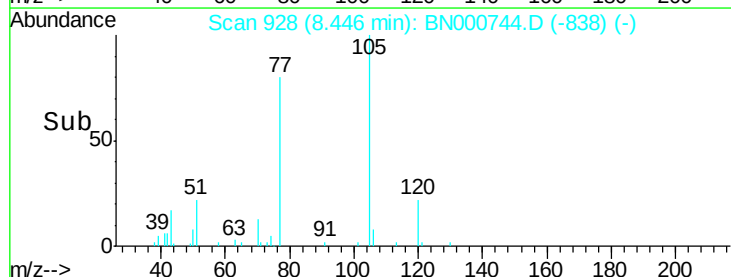
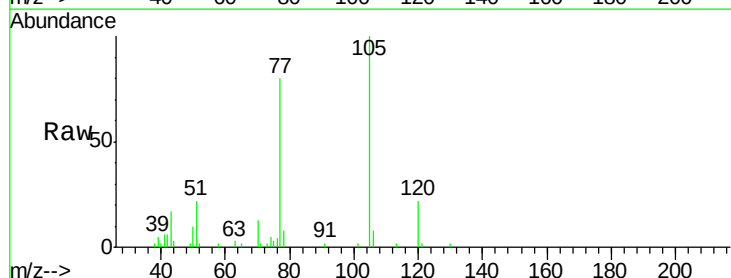
Ion Ratio Lower Upper

105 100

71 2.4 3.0 4.4#

51 22.4 26.1 39.1#

120 21.9 17.4 26.2

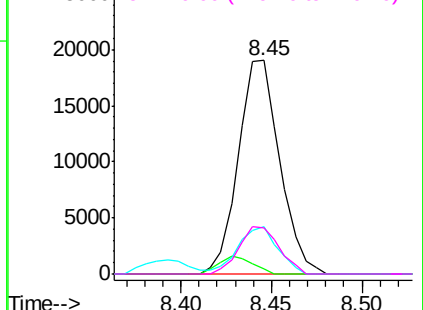


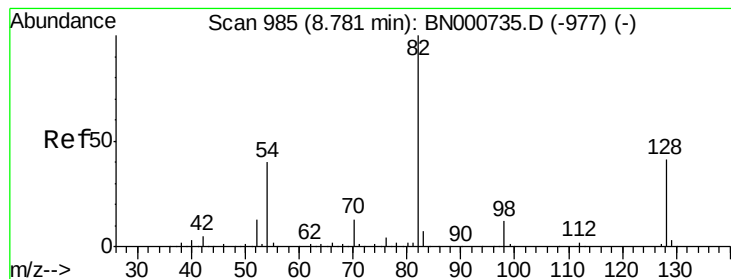
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BNC

Ion 51.00 (50.70 to 51.70): BNC

Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 84.926 ng

RT: 8.77 min Scan# 984

Delta R.T. -0.01 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

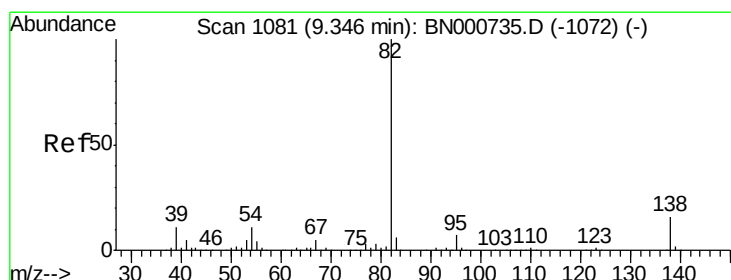
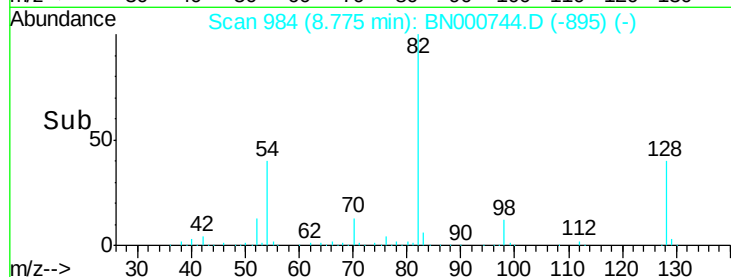
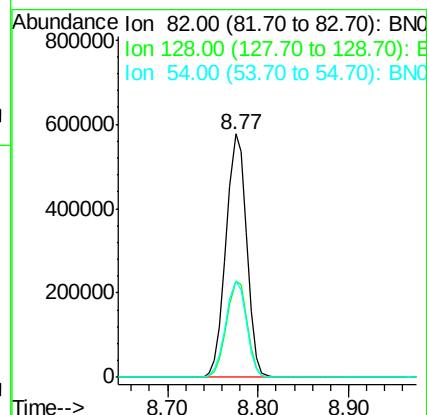
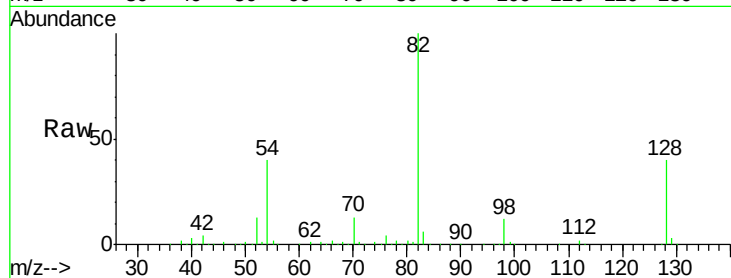
Tot Ion: 82 Resp: 910577

Ion Ratio Lower Upper

82 100

128 39.7 29.7 44.5

54 39.8 43.1 64.7#



#25

Isophorone

Concen: 1.624 ng

RT: 9.33 min Scan# 1079

Delta R.T. -0.01 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

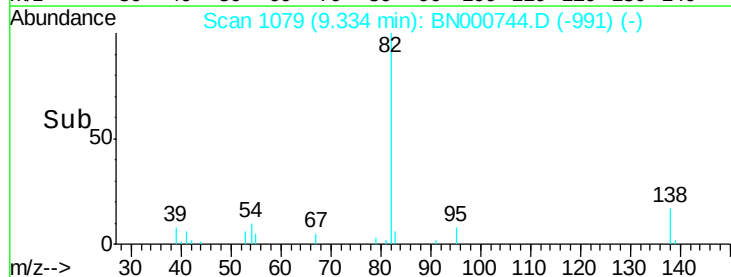
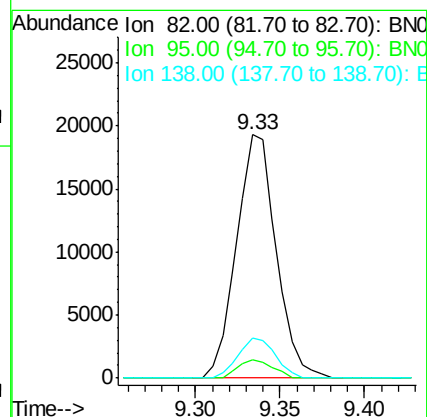
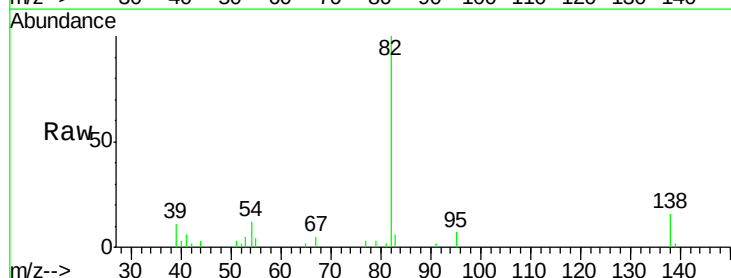
Tgt Ion: 82 Resp: 31547

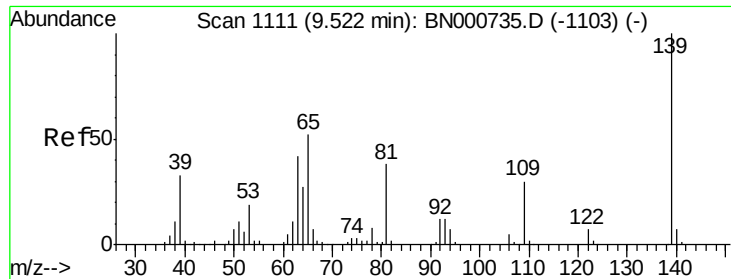
Ion Ratio Lower Upper

82 100

95 7.3 6.2 9.2

138 16.3 12.1 18.1

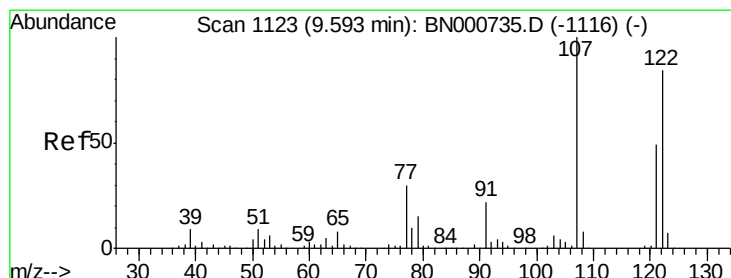
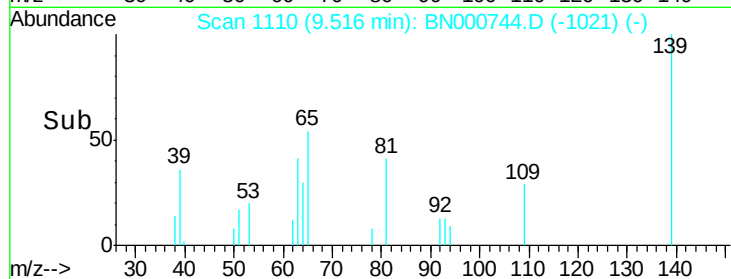
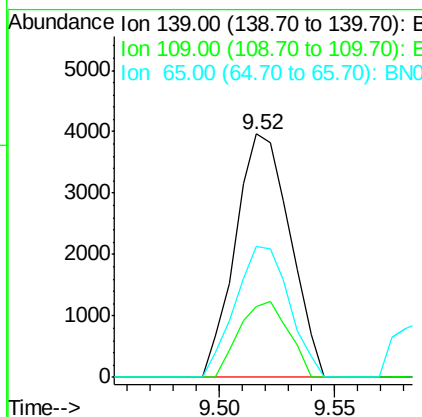
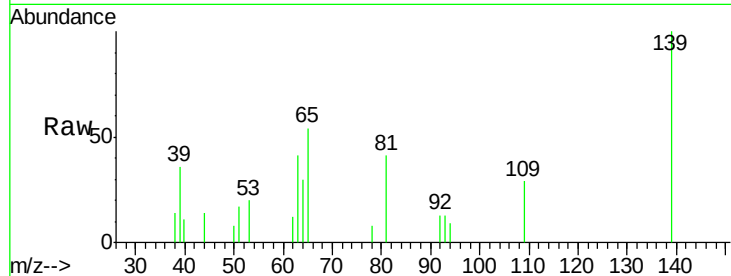




#26
2-Nitrophenol
Concen: 1.386 ng
RT: 9.52 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

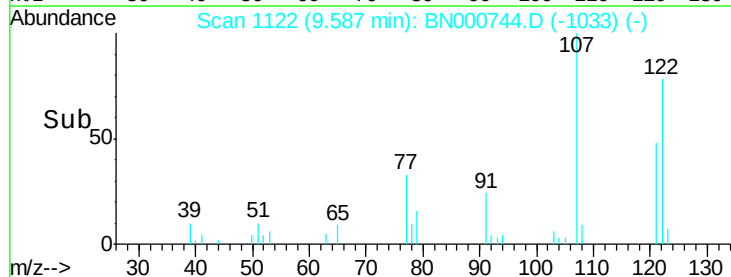
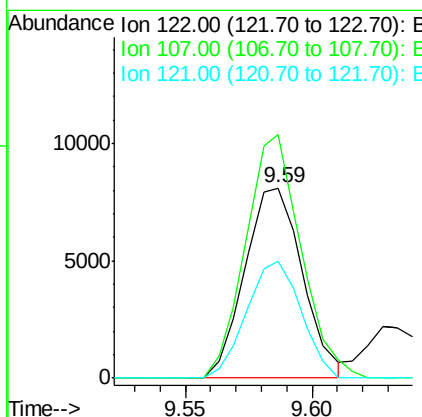
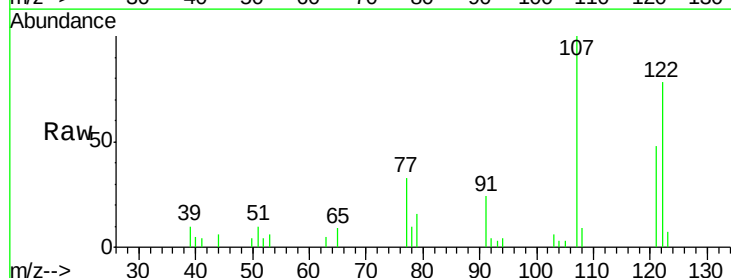
Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

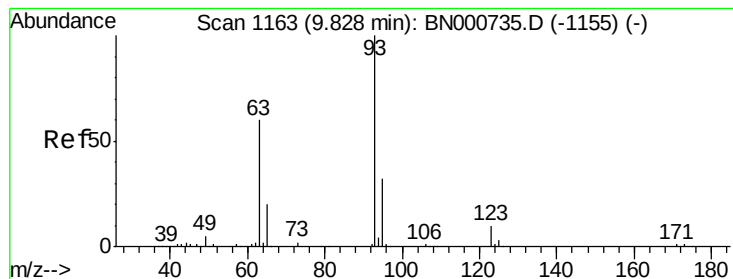
Tot Ion:139 Resp: 6526
Ion Ratio Lower Upper
139 100
109 29.1 24.2 36.2
65 54.0 47.4 71.0



#27
2,4-Dimethylphenol
Concen: 1.675 ng
RT: 9.59 min Scan# 1122
Delta R.T. -0.01 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

Tgt Ion:122 Resp: 12882
Ion Ratio Lower Upper
122 100
107 128.1 100.2 150.2
121 61.7 44.4 66.6





#28

bis(2-Chloroethoxy)methane

Concen: 1.925 ng

RT: 9.82 min Scan# 1162

Delta R.T. -0.01 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

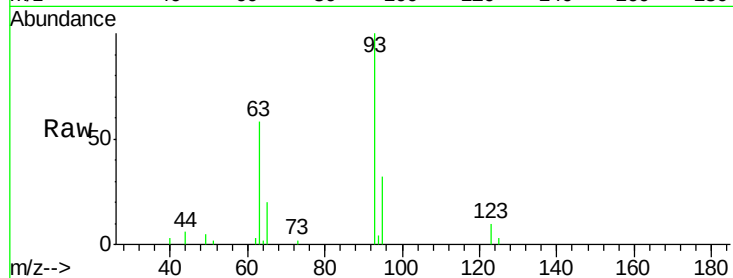
Tot Ion: 93 Resp: 24381

Ion Ratio Lower Upper

93 100

95 32.2 24.3 36.5

123 9.8 8.4 12.6

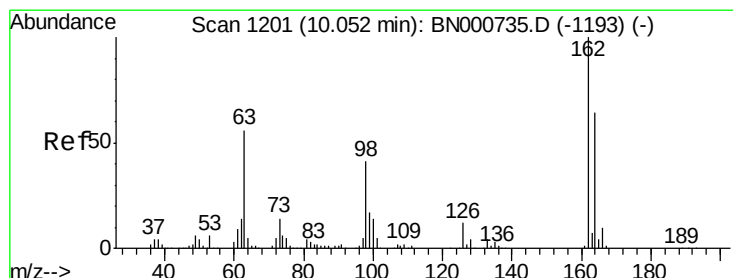
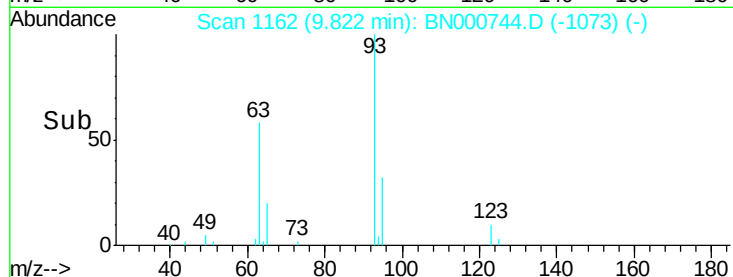


Abundance Ion 93.00 (92.70 to 93.70): BN000735.D (-1155) (-)

Ion 95.00 (94.70 to 95.70): BN000735.D (-1155) (-)

Ion 123.00 (122.70 to 123.70): BN000735.D (-1155) (-)

Time-->



#29

2,4-Dichlorophenol

Concen: 1.582 ng

RT: 10.05 min Scan# 1200

Delta R.T. -0.01 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

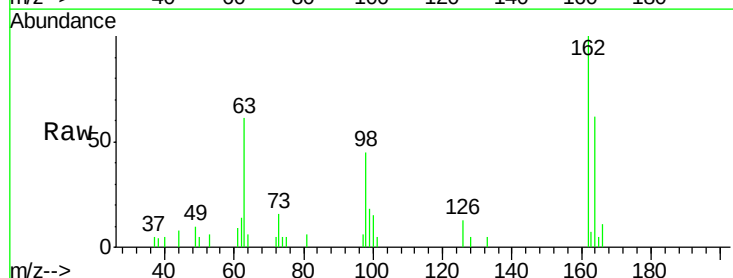
Tgt Ion:162 Resp: 11979

Ion Ratio Lower Upper

162 100

164 62.2 48.0 88.0

98 44.6 21.1 61.1

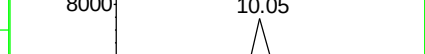
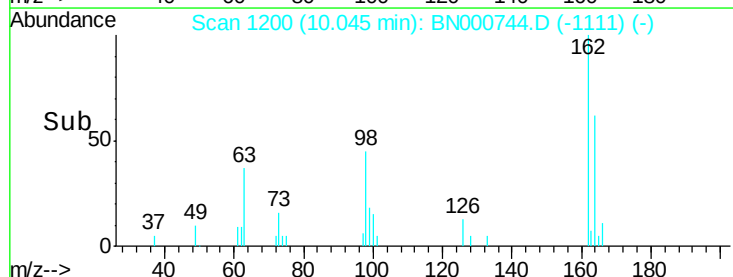


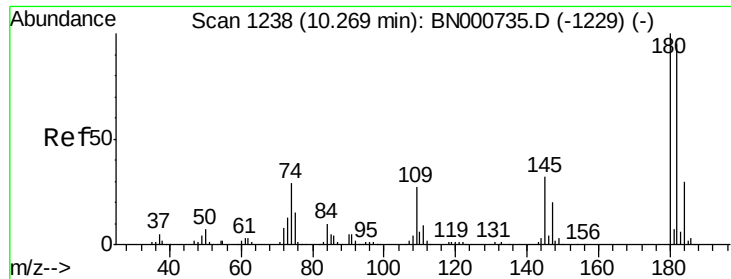
Abundance Ion 162.00 (161.70 to 162.70): BN000735.D (-1193) (-)

Ion 164.00 (163.70 to 164.70): BN000735.D (-1193) (-)

Ion 98.00 (97.70 to 98.70): BN000735.D (-1193) (-)

Time-->

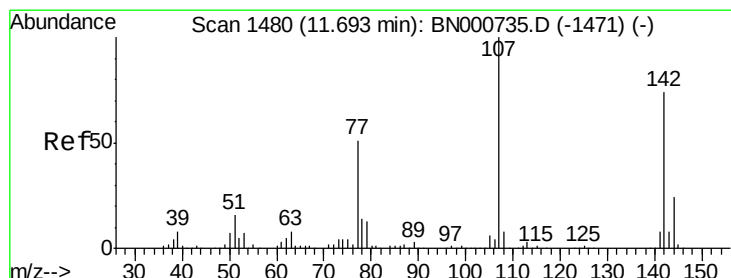
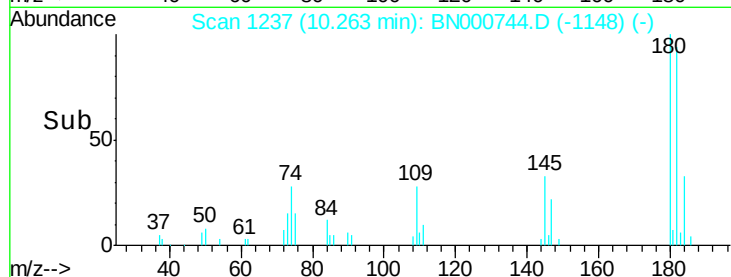
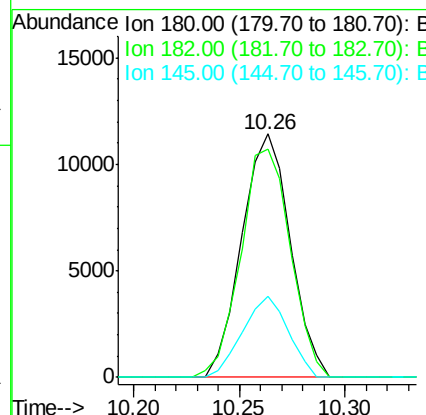
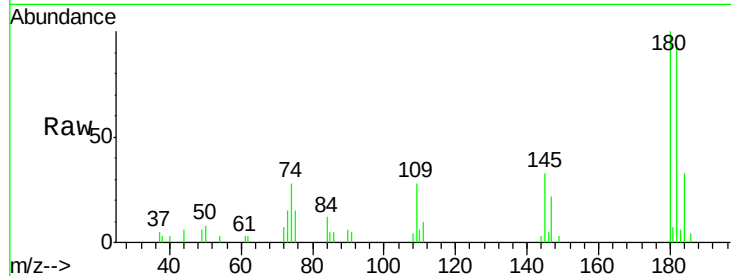




#30
 1,2,4-Trichlorobenzene
 Concen: 1.993 ng
 RT: 10.26 min Scan# 1237
 Delta R.T. -0.01 min
 Lab File: BN000744.D
 Acq: 18 Apr 2018 17:56

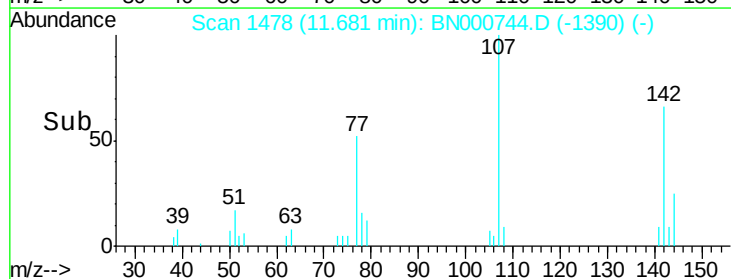
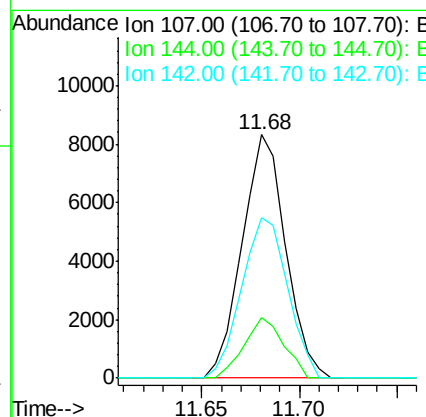
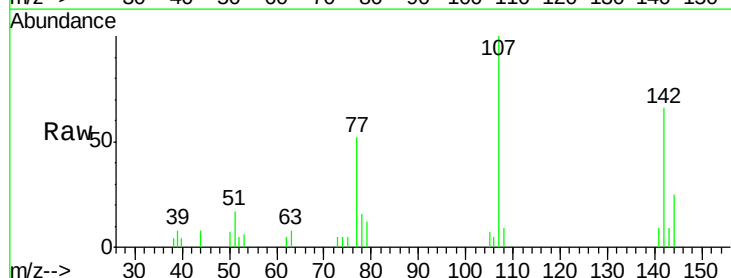
Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

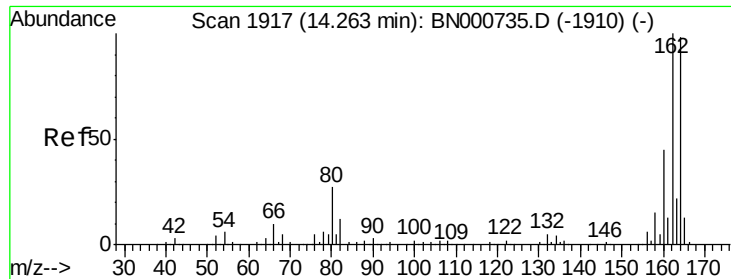
Tot Ion:180 Resp: 18190
 Ion Ratio Lower Upper
 180 100
 182 93.7 77.5 116.3
 145 33.3 23.4 35.2



#36
 4-Chloro-3-methylphenol
 Concen: 1.440 ng
 RT: 11.68 min Scan# 1478
 Delta R.T. -0.01 min
 Lab File: BN000744.D
 Acq: 18 Apr 2018 17:56

Tgt Ion:107 Resp: 12870
 Ion Ratio Lower Upper
 107 100
 144 24.8 18.2 27.4
 142 65.9 59.0 88.4





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.26 min Scan# 1917

Delta R.T. -0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

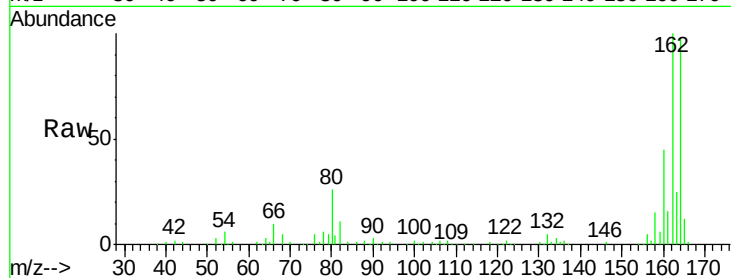
Tot Ion:164 Resp: 292214

Ion Ratio Lower Upper

164 100

162 101.8 78.8 118.2

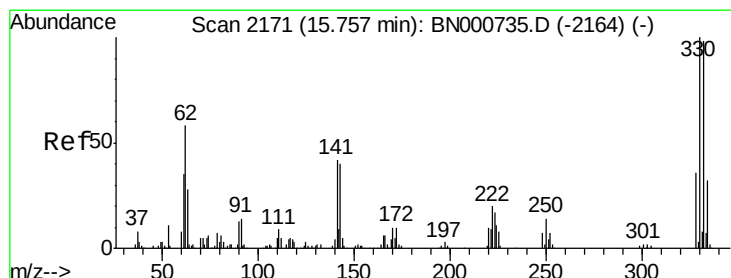
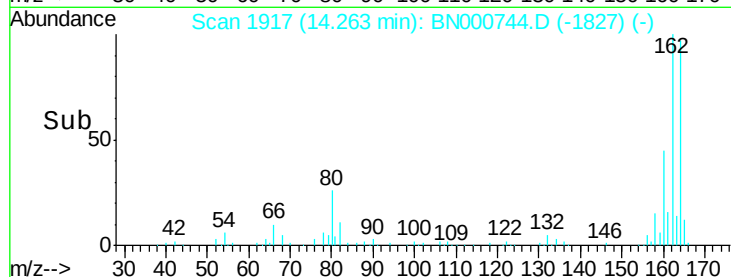
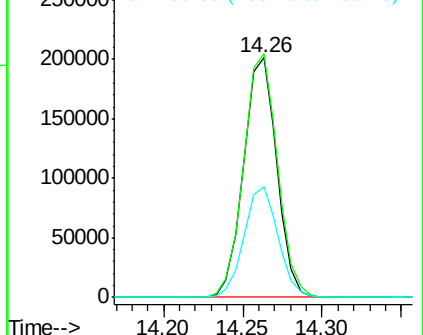
160 45.9 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 147.610 ng

RT: 15.76 min Scan# 2171

Delta R.T. -0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

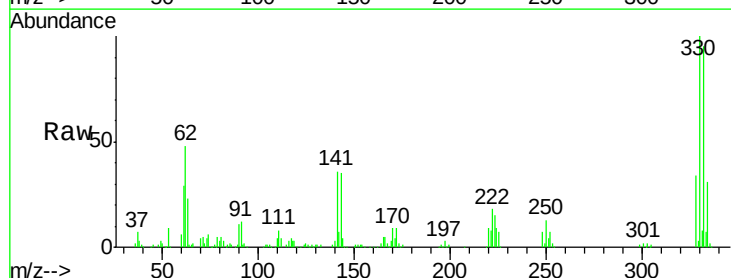
Tgt Ion:330 Resp: 434230

Ion Ratio Lower Upper

330 100

332 97.2 77.0 115.6

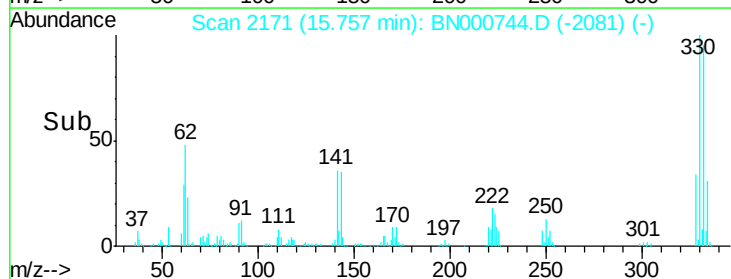
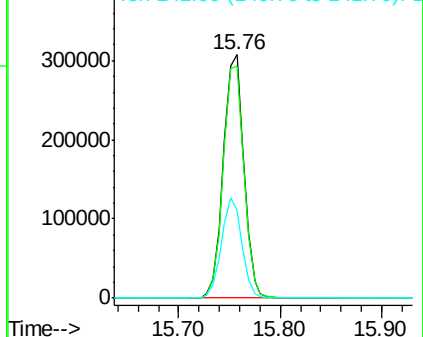
141 40.6 25.2 37.8#

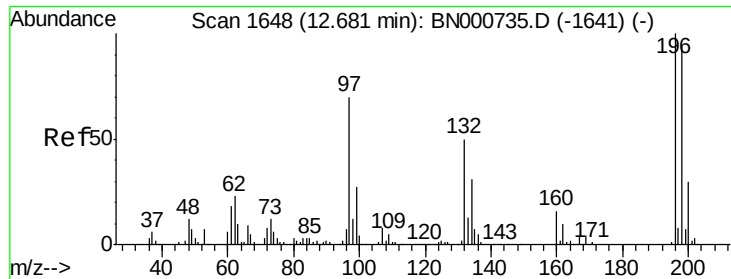


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#42

2,4,6-Trichlorophenol

Concen: 1.420 ng

RT: 12.68 min Scan# 1648

Delta R.T. -0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

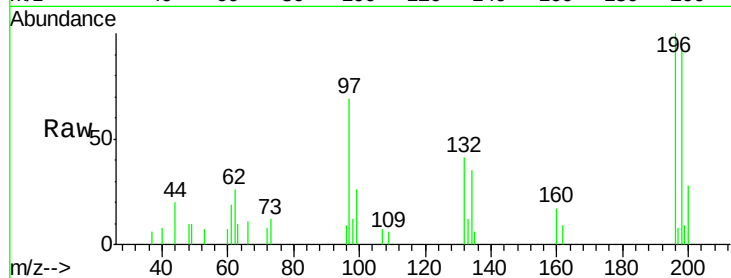
Tot Ion:196 Resp: 7805

Ion Ratio Lower Upper

196 100

198 92.5 78.2 117.2

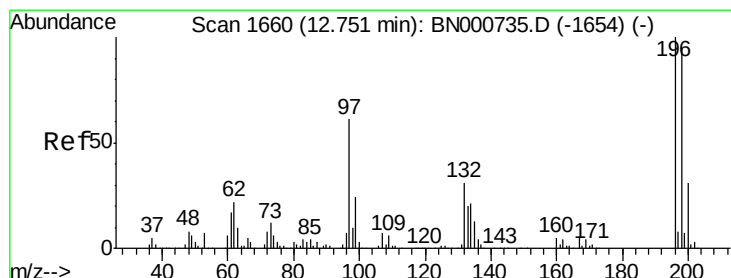
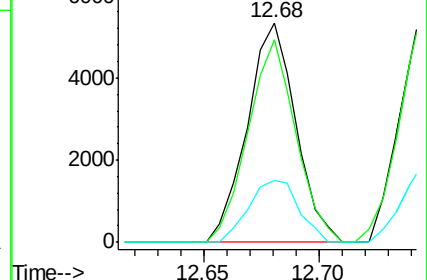
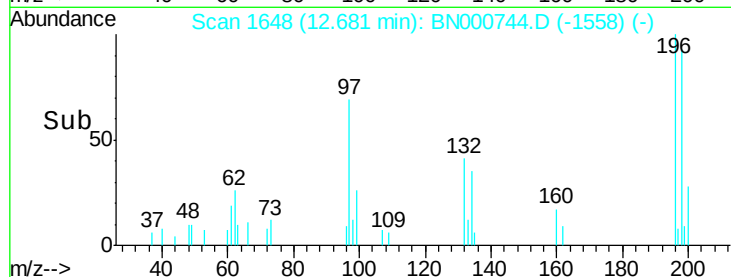
200 28.0 24.6 36.8



Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E



#43

2,4,5-Trichlorophenol

Concen: 1.417 ng

RT: 12.75 min Scan# 1659

Delta R.T. -0.01 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Tgt Ion:196 Resp: 8993

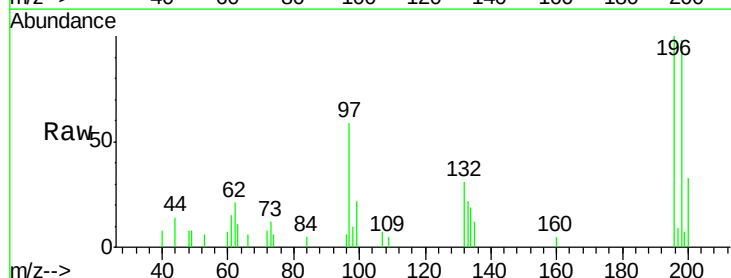
Ion Ratio Lower Upper

196 100

198 97.7 76.2 114.4

97 59.1 38.7 58.1#

132 30.7 20.2 30.2#

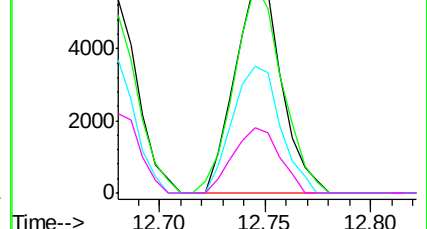
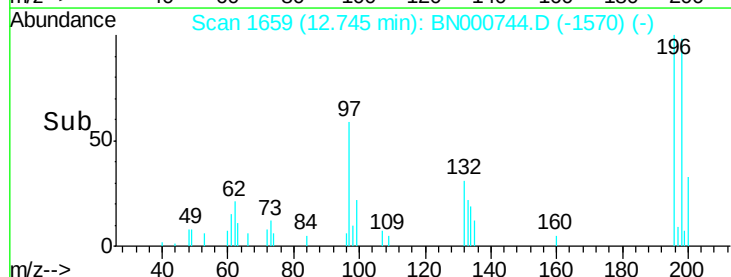


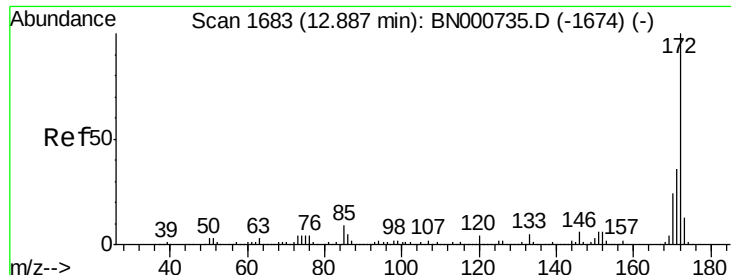
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BNC

Ion 132.00 (131.70 to 132.70): E

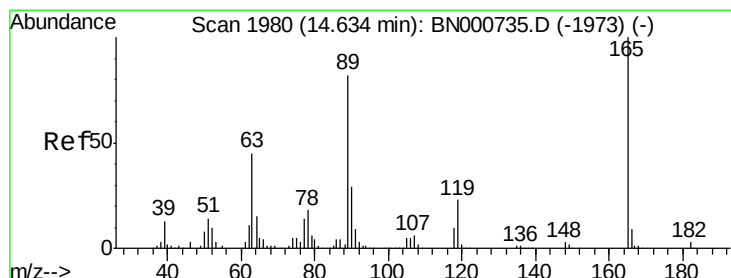
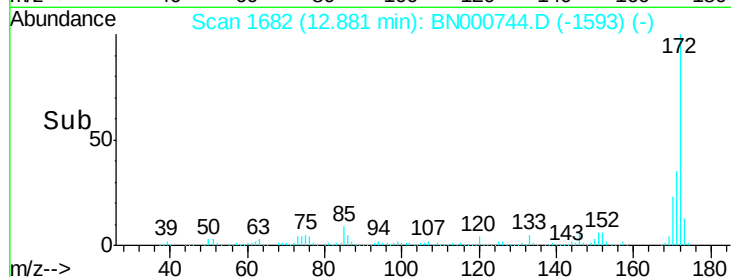
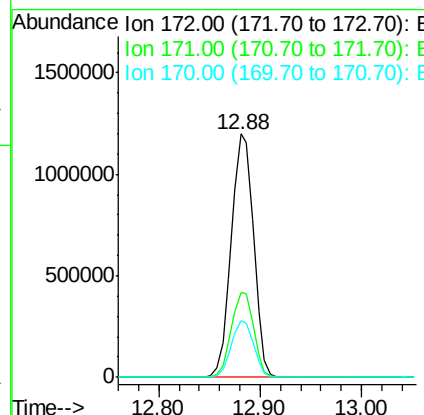
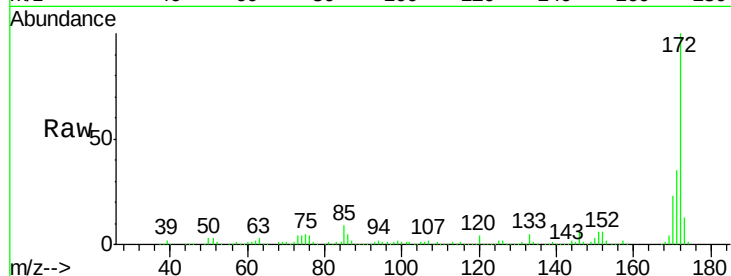




#44
 2-Fluorobiphenyl
 Concen: 86.597 ng
 RT: 12.88 min Scan# 1682
 Delta R.T. -0.01 min
 Lab File: BN000744.D
 Acq: 18 Apr 2018 17:56

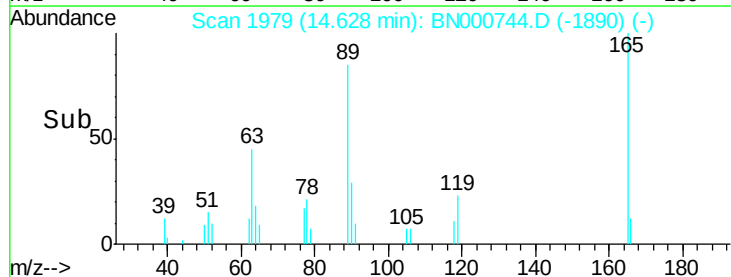
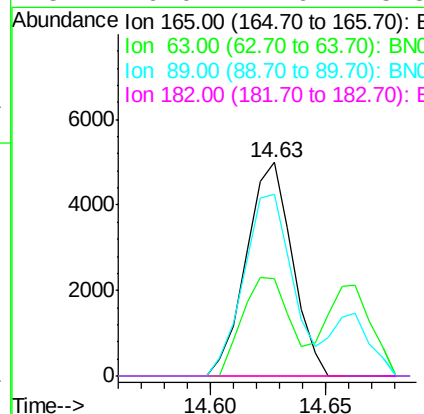
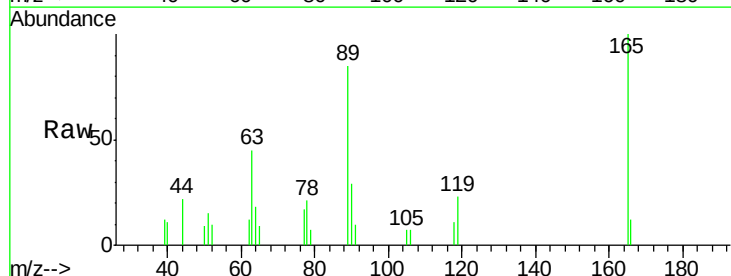
Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

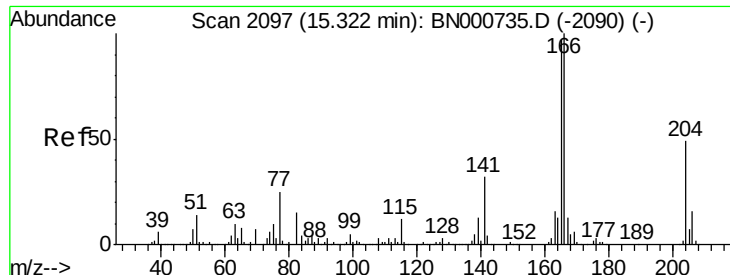
Tot Ion:172 Resp: 1833074
 Ion Ratio Lower Upper
 172 100
 171 35.0 30.0 45.0
 170 23.4 19.5 29.3



#56
 2,4-Dinitrotoluene
 Concen: 1.071 ng
 RT: 14.63 min Scan# 1979
 Delta R.T. -0.01 min
 Lab File: BN000744.D
 Acq: 18 Apr 2018 17:56

Tgt Ion:165 Resp: 6935
 Ion Ratio Lower Upper
 165 100
 63 45.4 42.0 63.0
 89 84.9 66.9 100.3
 182 0.0 2.6 3.8#

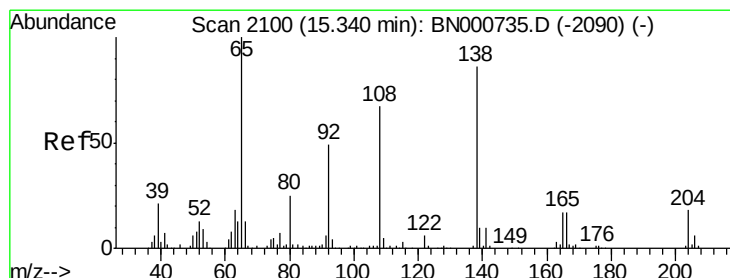
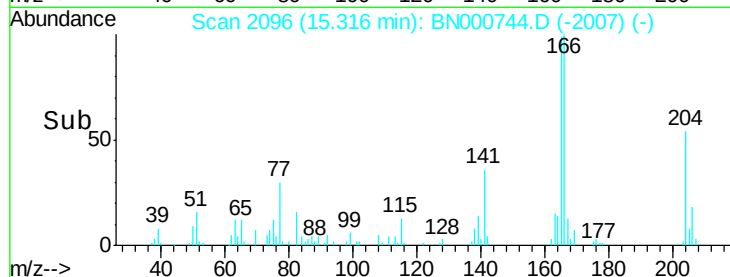
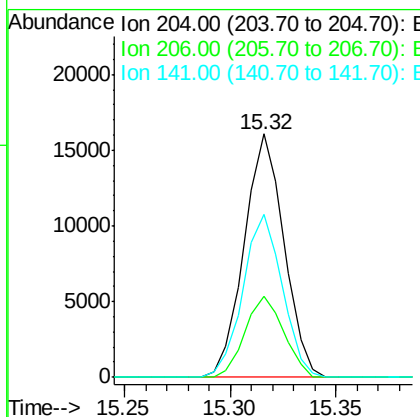
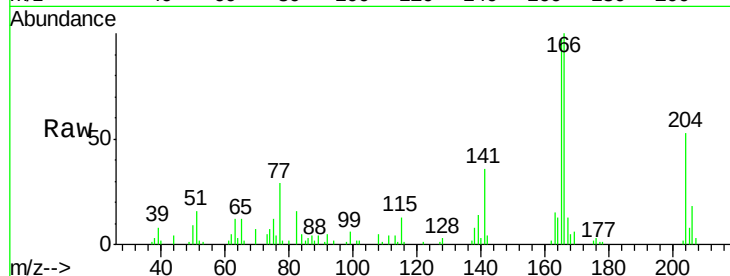




#60
4-Chlorophenyl-phenylether
Concen: 2.067 ng
RT: 15.32 min Scan# 2096
Delta R.T. -0.01 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

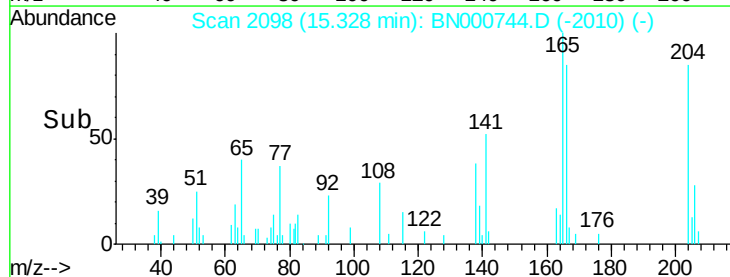
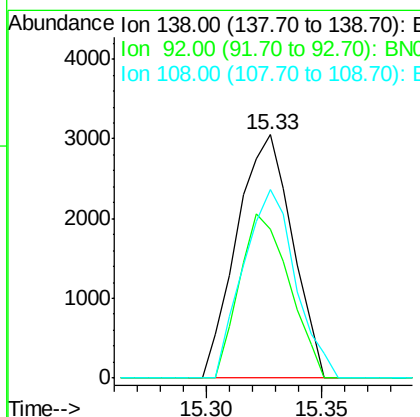
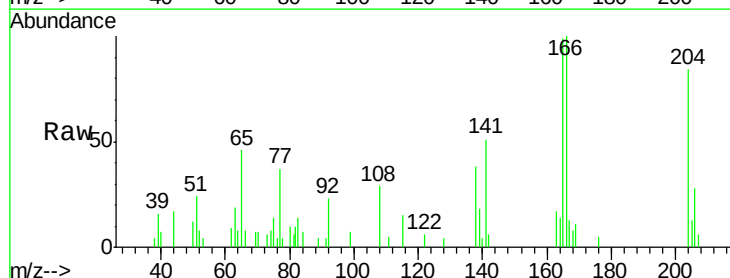
Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

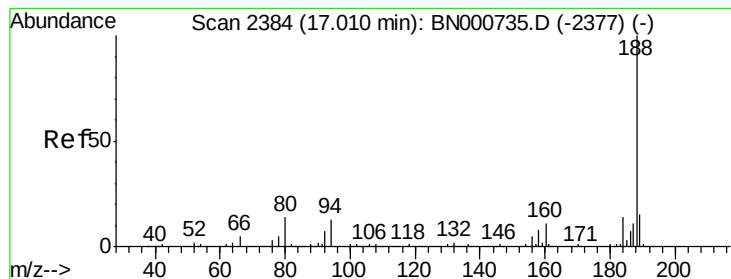
Tot Ion:204 Resp: 21074
Ion Ratio Lower Upper
204 100
206 33.2 26.2 39.2
141 66.8 45.8 68.6



#61
4-Nitroaniline
Concen: 0.920 ng
RT: 15.33 min Scan# 2098
Delta R.T. -0.01 min
Lab File: BN000744.D
Acq: 18 Apr 2018 17:56

Tgt Ion:138 Resp: 5095
Ion Ratio Lower Upper
138 100
92 61.0 40.1 80.1
108 77.4 65.4 105.4





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.01 min Scan# 2384

Delta R.T. -0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

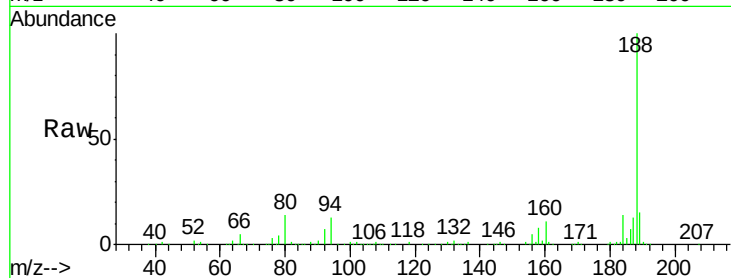
Tot Ion:188 Resp: 561928

Ion Ratio Lower Upper

188 100

94 12.9 6.9 10.3#

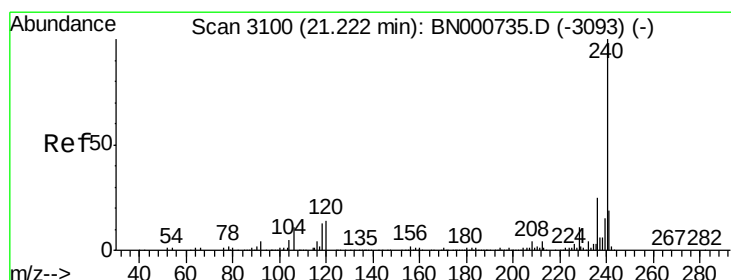
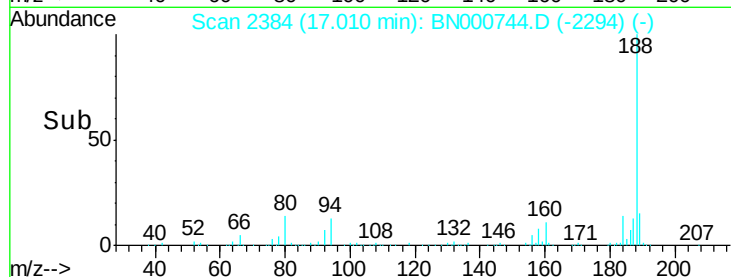
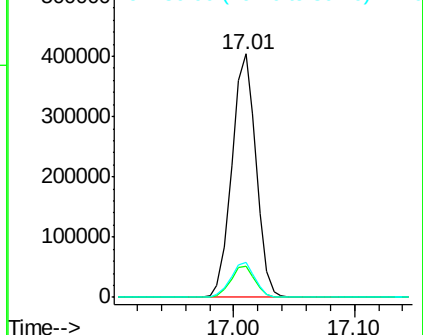
80 14.3 7.7 11.5#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.22 min Scan# 3099

Delta R.T. -0.01 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

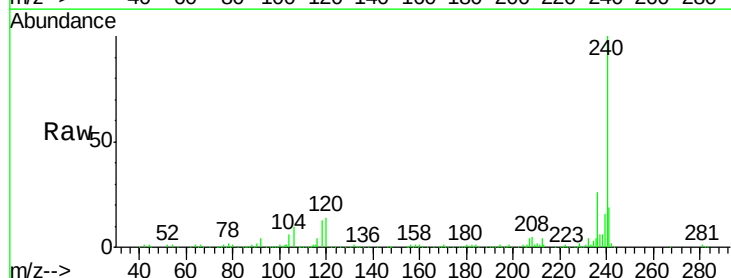
Tgt Ion:240 Resp: 458817

Ion Ratio Lower Upper

240 100

120 13.8 6.8 10.2#

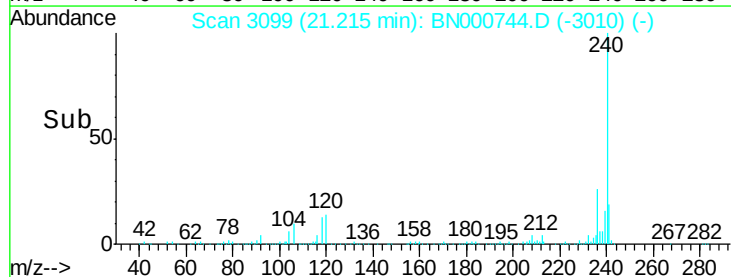
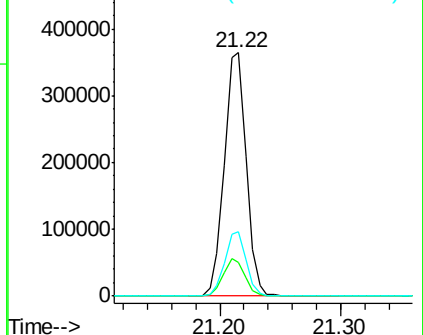
236 26.2 20.9 31.3

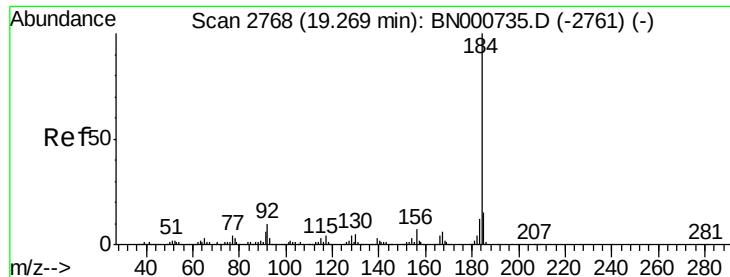


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 0.512 ng

RT: 19.27 min Scan# 2768

Delta R.T. 0.00 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

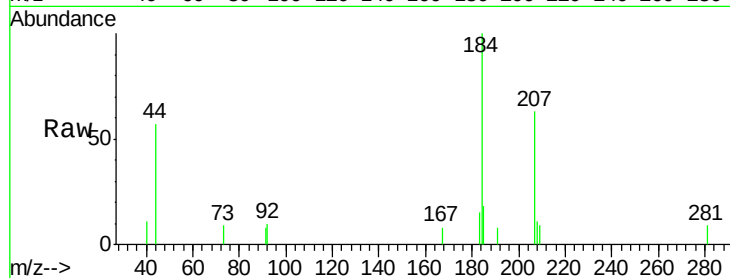
Tot Ion:184 Resp: 6368

Ion Ratio Lower Upper

184 100

185 18.0 11.1 16.7#

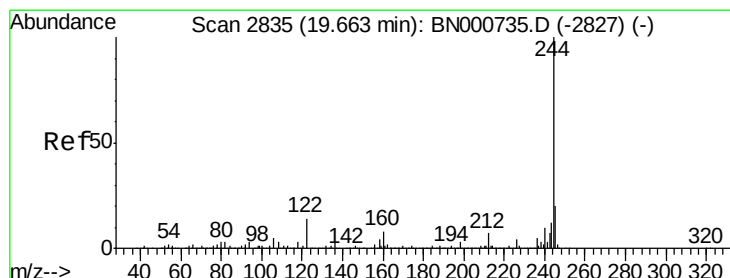
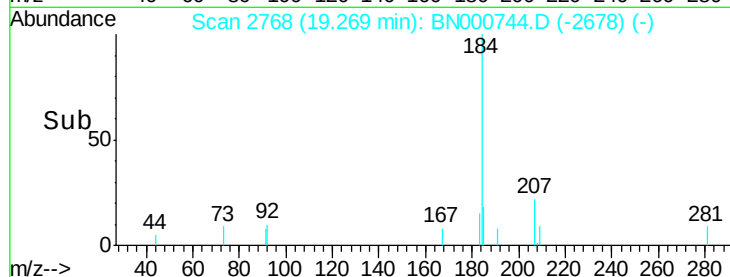
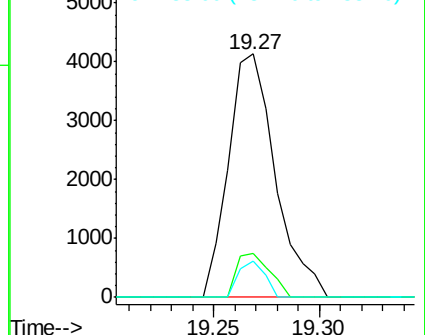
183 14.9 10.6 16.0



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: 89.795 ng

RT: 19.66 min Scan# 2834

Delta R.T. -0.01 min

Lab File: BN000744.D

Acq: 18 Apr 2018 17:56

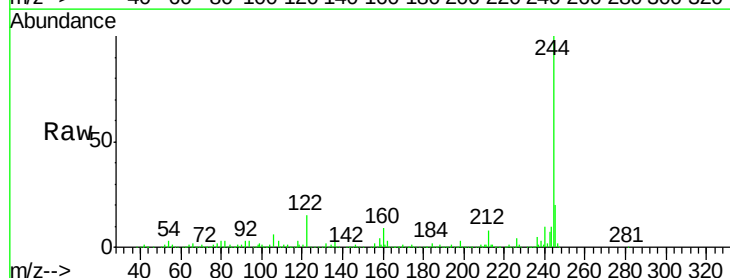
Tgt Ion:244 Resp: 1910807

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

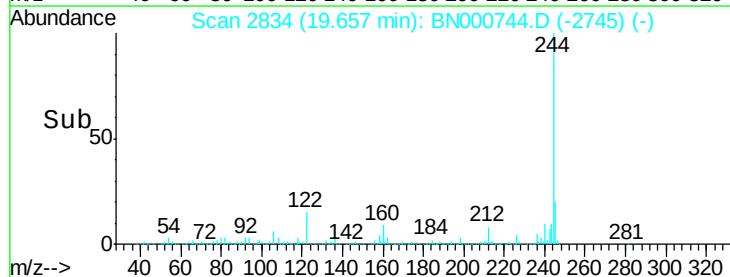
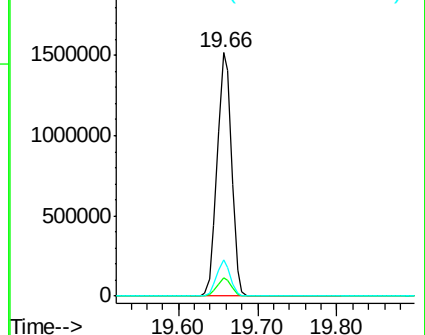
122 15.0 7.0 10.4#

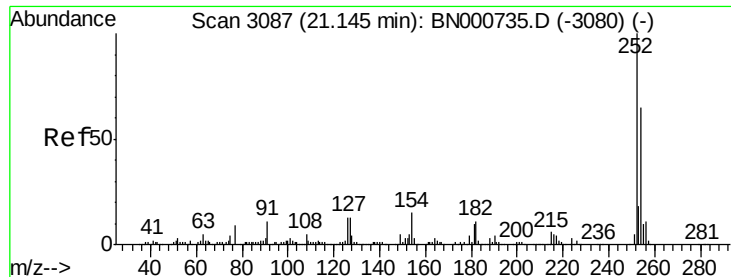


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

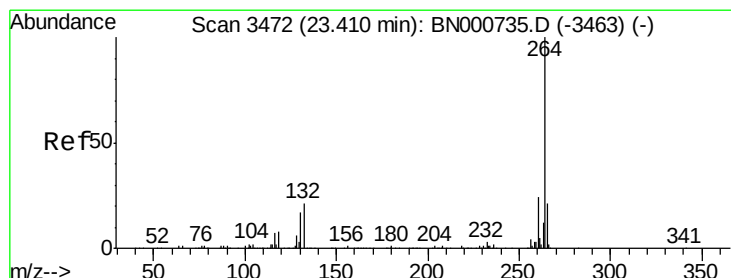
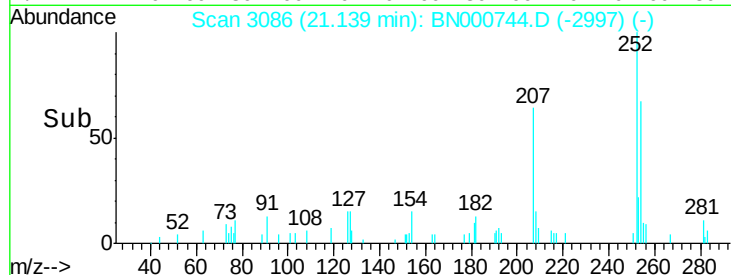
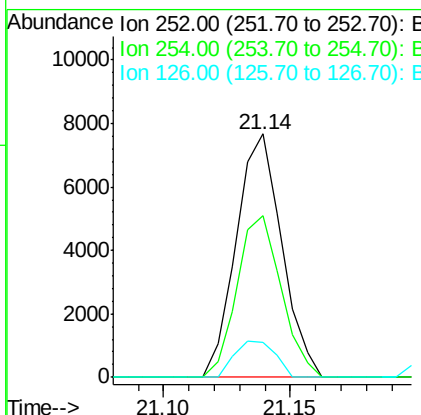
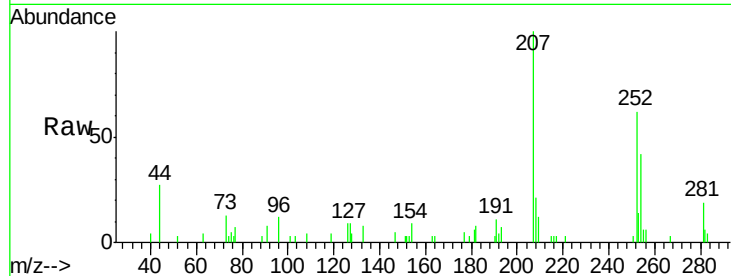




#81
 3,3'-Dichlorobenzidine
 Concen: 1.050 ng
 RT: 21.14 min Scan# 3086
 Delta R.T. -0.01 min
 Lab File: BN000744.D
 Acq: 18 Apr 2018 17:56

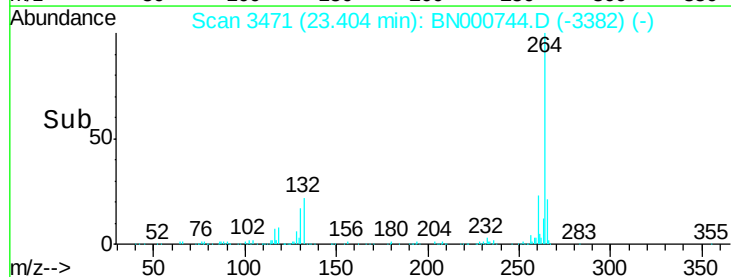
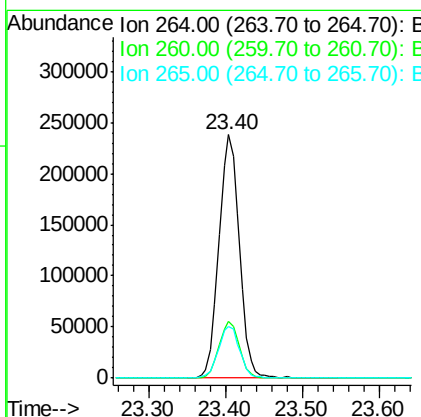
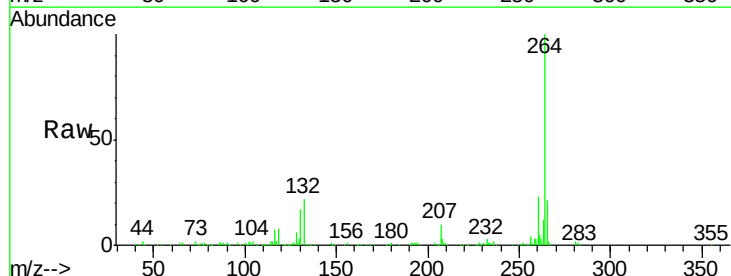
Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

Tot Ion:252 Resp: 9557
 Ion Ratio Lower Upper
 252 100
 254 66.6 50.8 76.2
 126 14.6 7.4 11.2#



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.40 min Scan# 3471
 Delta R.T. -0.01 min
 Lab File: BN000744.D
 Acq: 18 Apr 2018 17:56

Tgt Ion:264 Resp: 437804
 Ion Ratio Lower Upper
 264 100
 260 23.3 17.4 26.0
 265 21.3 17.7 26.5



Data Path : Z:\HPCHEM1\BNA N\DATA\BN041818\
 Data File : BN000744.D
 Acq On : 18 Apr 2018 17:56
 Operator : JU/SJ
 Sample : J2133-01
 Misc : 2PPM LOD
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

Quant Time: Apr 19 04:54:59 2018
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\8270-BN041818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 18 16:58:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	129558	20.00	ng	0.00
21) Naphthalene-d8	10.40	136	558944	20.00	ng	0.00
38) Acenaphthene-d10	14.26	164	292214	20.00	ng	0.00
63) Phenanthrene-d10	17.01	188	561928	20.00	ng	0.00
75) Chrysene-d12	21.22	240	458817	20.00	ng	0.00
86) Perylene-d12	23.40	264	437804	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.26	112	1198037	137.36	ng	0.00
7) Phenol-d6	6.82	99	1599623	134.59	ng	0.00
23) Nitrobenzene-d5	8.77	82	910577	84.93	ng	0.00
41) 2,4,6-Tribromophenol	15.76	330	434230	147.61	ng	0.00
44) 2-Fluorobiphenyl	12.88	172	1833074	86.60	ng	0.00
78) Terphenyl-d14	19.66	244	1910807	89.80	ng	0.00

Target Compounds

						Qvalue
17) 2-Methylphenol	8.07	107	14664	1.741	ng	96
19) n-Nitroso-di-n-propylamine	8.43	70	12880	1.742	ng	# 84
20) 3+4-Methylphenols	8.39	107	19799	1.711	ng	93
22) Acetophenone	8.45	105	30199	1.886	ng	# 90
25) Isophorone	9.33	82	31547	1.624	ng	98
26) 2-Nitrophenol	9.52	139	6526	1.386	ng	95
27) 2,4-Dimethylphenol	9.59	122	12882	1.675	ng	96
28) bis(2-Chloroethoxy)methane	9.82	93	24381	1.925	ng	97
29) 2,4-Dichlorophenol	10.05	162	11979	1.582	ng	93
30) 1,2,4-Trichlorobenzene	10.26	180	18190	1.993	ng	96
36) 4-Chloro-3-methylphenol	11.68	107	12870	1.440	ng	92
42) 2,4,6-Trichlorophenol	12.68	196	7805	1.420	ng	95
43) 2,4,5-Trichlorophenol	12.75	196	8993	1.417	ng	# 92
56) 2,4-Dinitrotoluene	14.63	165	6935	1.071	ng	# 95
60) 4-Chlorophenyl-phenylether	15.32	204	21074	2.067	ng	91
61) 4-Nitroaniline	15.33	138	5095	0.920	ng	94
76) Benzidine	19.27	184	6368	0.512	ng	# 93
81) 3,3'-Dichlorobenzidine	21.14	252	9557	1.050	ng	# 95

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