

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072318\
 Data File : BM016037.D
 Acq On : 23 Jul 2018 22:05
 Operator : SJ/JU
 Sample : J3762-03
 Misc : MDL 2 PPM
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Quant Time: Jul 24 08:56:18 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 23 16:08:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	36237	20.00	ng	0.00
21) Naphthalene-d8	11.05	136	137498	20.00	ng	0.00
38) Acenaphthene-d10	14.86	164	73277	20.00	ng	0.00
63) Phenanthrene-d10	17.59	188	160823	20.00	ng	0.00
75) Chrysene-d12	21.70	240	176398	20.00	ng	0.00
86) Perylene-d12	24.07	264	191622	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.74	112	276982	126.97	ng	0.00
7) Phenol-d6	7.39	99	340322	119.46	ng	0.00
23) Nitrobenzene-d5	9.42	82	270148	91.38	ng	0.00
41) 2,4,6-Tribromophenol	16.34	330	121420	130.64	ng	0.00
44) 2-Fluorobiphenyl	13.48	172	545955	90.65	ng	0.00
78) Terphenyl-d14	20.16	244	1055262	125.23	ng	0.00

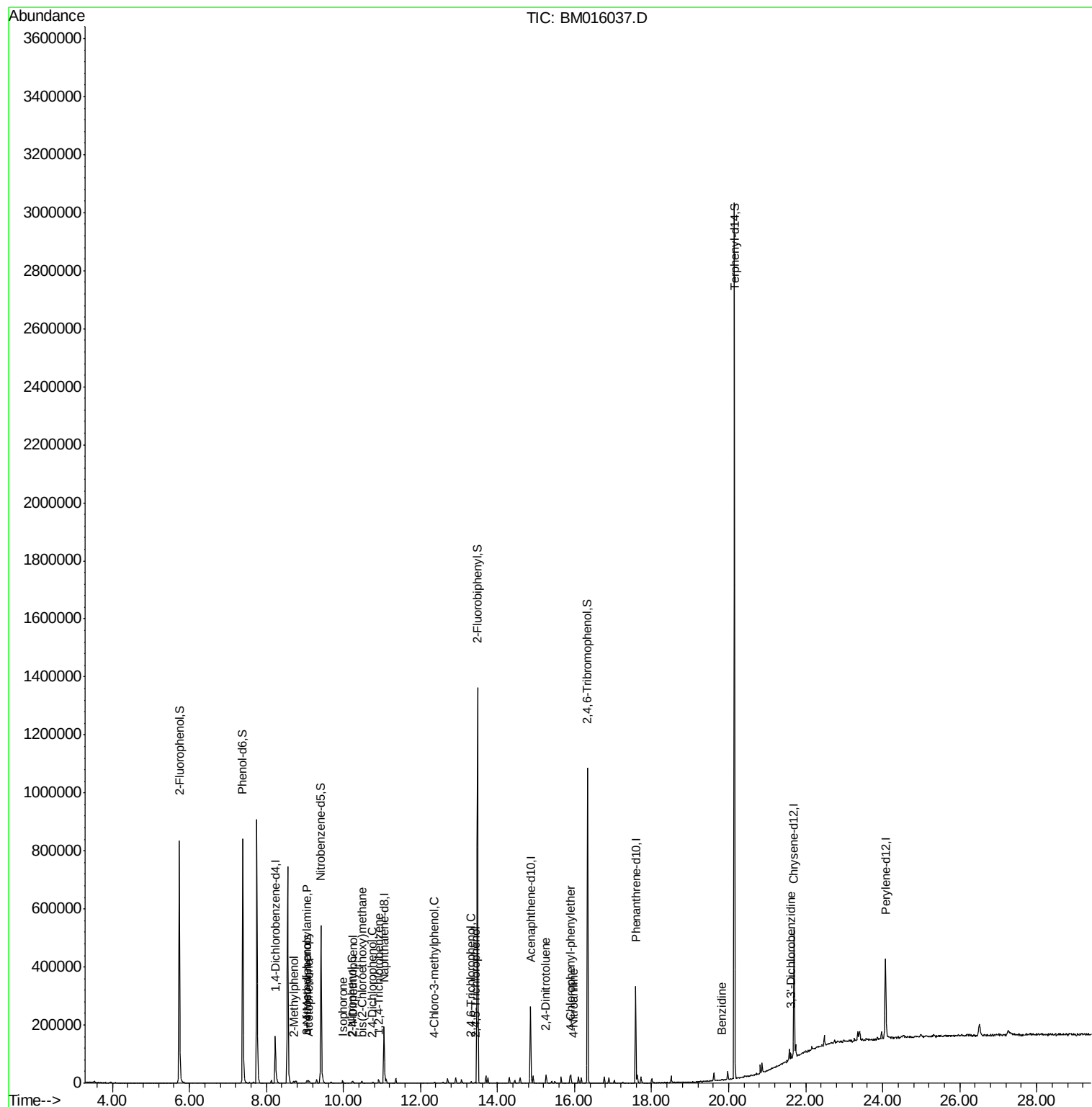
Target Compounds				Qvalue		
17) 2-Methylphenol	8.70	107	2598	1.334	ng	# 82
19) n-Nitroso-di-n-propylamine	9.05	70	2661	1.278	ng	# 79
20) 3+4-Methylphenols	9.05	107	2416	0.862	ng	# 71
22) Acetophenone	9.10	105	5691	1.644	ng	# 84
25) Isophorone	9.99	82	7157	1.770	ng	# 91
26) 2-Nitrophenol	10.22	139	894	0.720	ng	# 48
27) 2,4-Dimethylphenol	10.25	122	2638	1.524	ng	# 88
28) bis(2-Chloroethoxy)methane	10.47	93	3938	1.498	ng	# 88
29) 2,4-Dichlorophenol	10.76	162	2315	1.126	ng	# 87
30) 1,2,4-Trichlorobenzene	10.92	180	4304	1.723	ng	# 91
36) 4-Chloro-3-methylphenol	12.36	107	2547	1.126	ng	# 61
42) 2,4,6-Trichlorophenol	13.32	196	1864	1.194	ng	# 92
43) 2,4,5-Trichlorophenol	13.43	196	1886	1.171	ng	# 71
56) 2,4-Dinitrotoluene	15.26	165	1983	1.075	ng	# 58
60) 4-Chlorophenyl-phenylether	15.88	204	5314	1.683	ng	# 83
61) 4-Nitroaniline	15.97	138	286	0.214	ng	# 35
76) Benzidine	19.82	184	2521	0.511	ng	# 68
81) 3,3'-Dichlorobenzidine	21.62	252	6076	1.388	ng	# 92

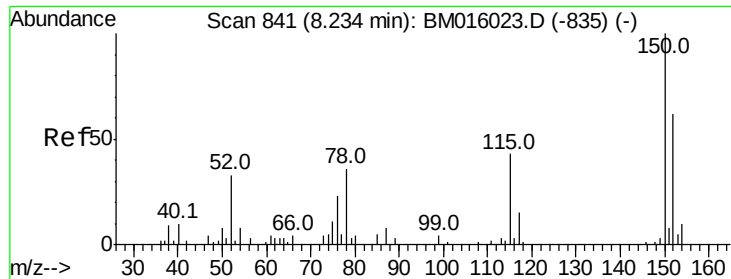
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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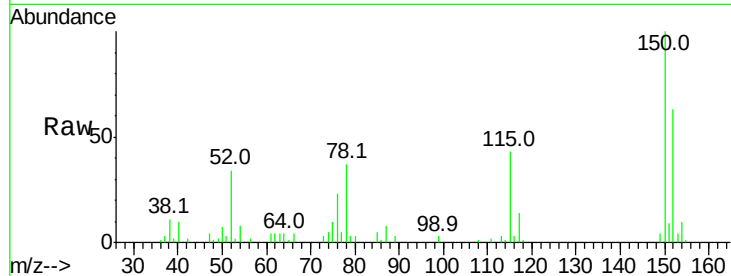


#1

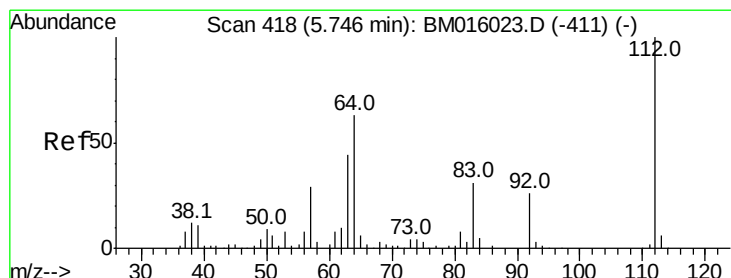
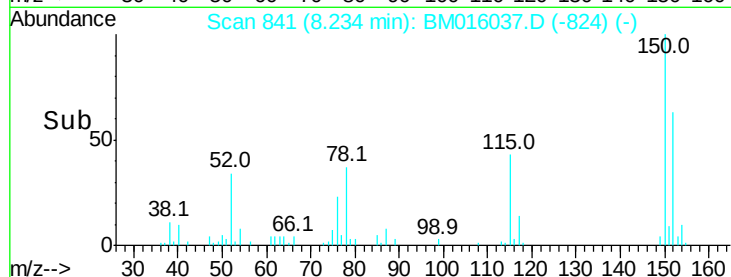
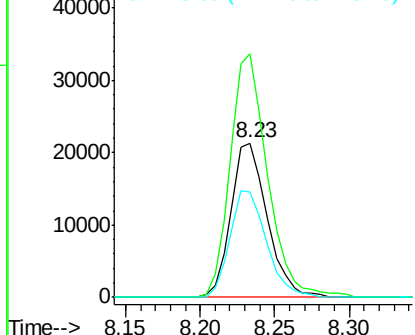
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.23 min Scan# 841
Delta R.T. -0.00 min
Lab File: BM016037.D
Acq: 23 Jul 2018 22:05

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion:152 Resp: 36237
Ion Ratio Lower Upper
152 100
150 158.1 119.5 179.3
115 68.3 43.0 64.4#



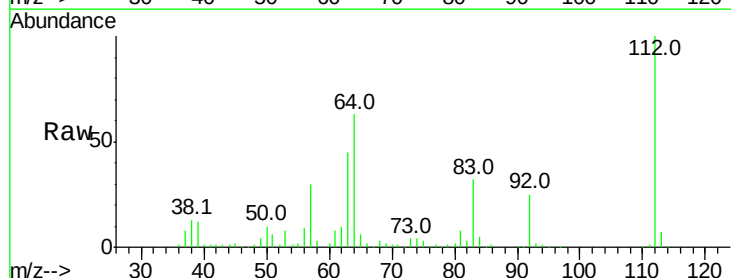
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



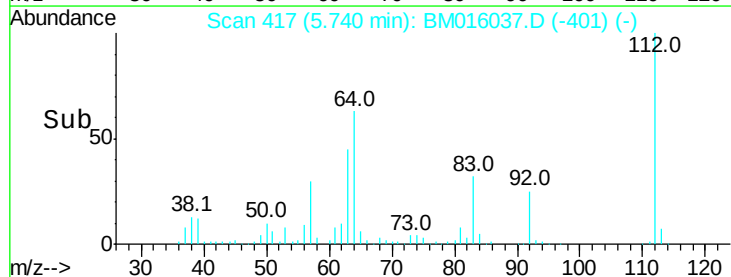
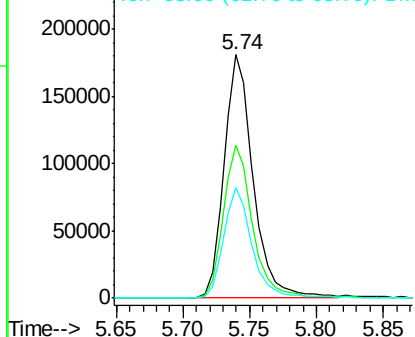
#5

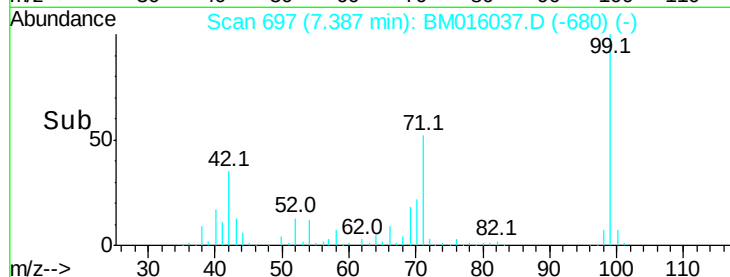
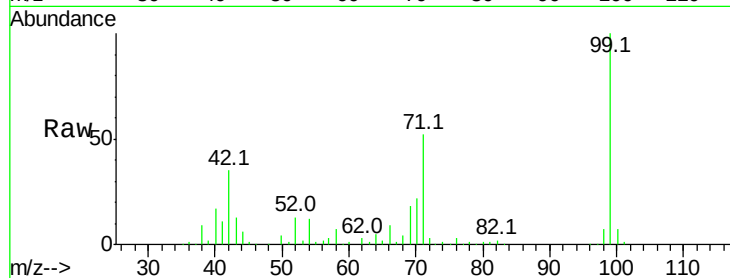
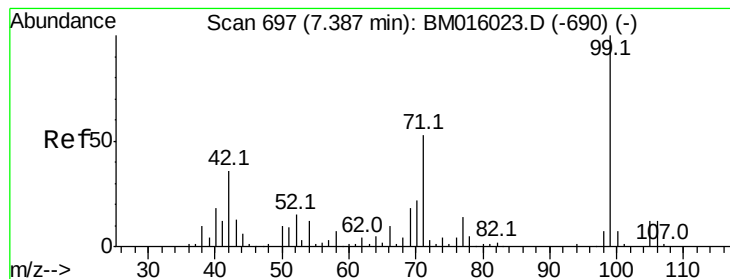
2-Fluorophenol
Concen: N.D. ng
RT: 5.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: BM016037.D
Acq: 23 Jul 2018 22:05

Tgt Ion:112 Resp: 276982
Ion Ratio Lower Upper
112 100
64 62.6 38.6 57.8#
63 45.4 19.3 28.9#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: N.D. ng

RT: 7.39 min Scan# 697

Delta R.T. -0.00 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

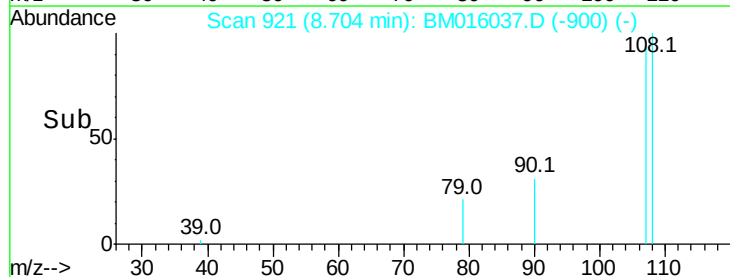
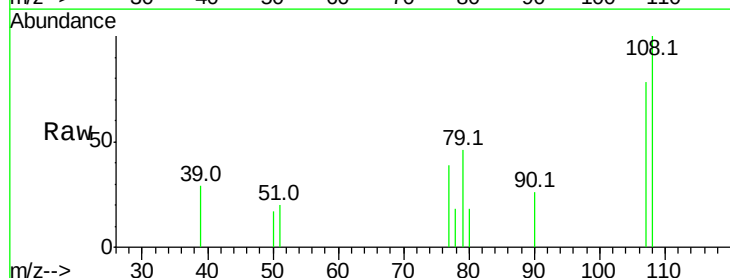
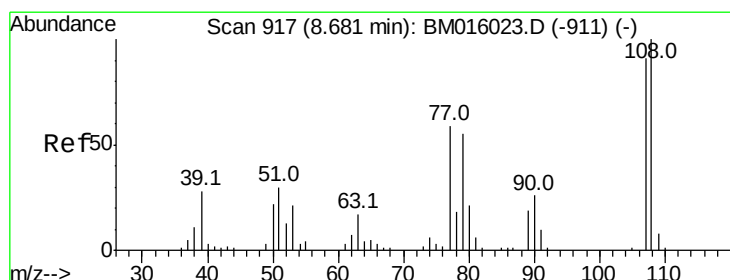
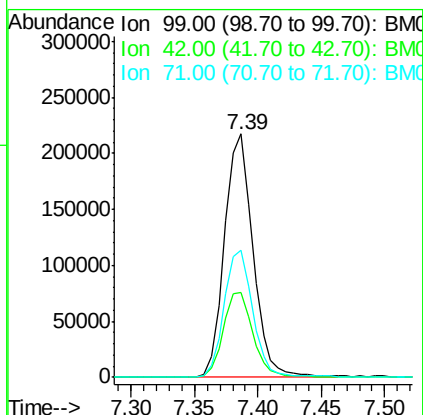
Tot Ion: 99 Resp: 340322

Ion Ratio Lower Upper

99 100

42 35.0 11.0 16.4#

71 52.3 23.4 35.2#



#17

2-Methylphenol

Concen: 1.334 ng

RT: 8.70 min Scan# 921

Delta R.T. 0.02 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Tgt Ion:107 Resp: 2598

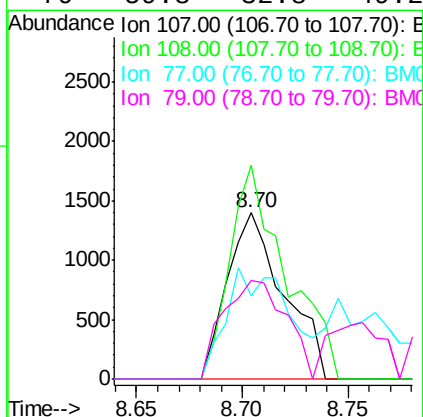
Ion Ratio Lower Upper

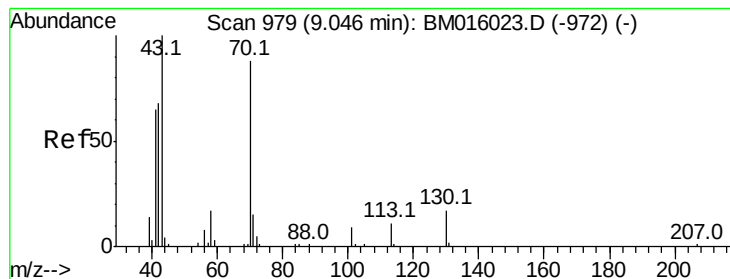
107 100

108 128.7 89.8 134.8

77 50.3 32.6 48.8#

79 59.8 32.8 49.2#





#19

n-Nitroso-di-n-propylamine

Concen: 1.278 ng

RT: 9.05 min Scan# 980

Delta R.T. 0.01 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 70 Resp: 2661

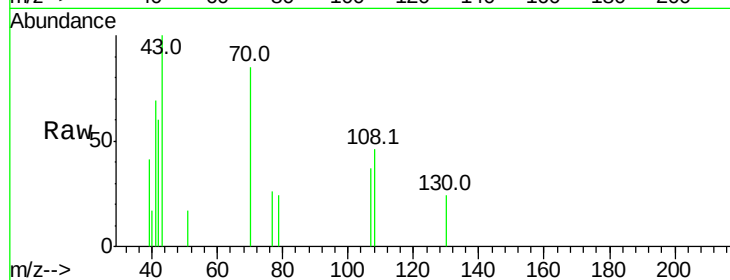
Ion Ratio Lower Upper

70 100

42 71.0 44.5 66.7#

101 0.0 7.4 11.2#

130 27.9 15.3 22.9#



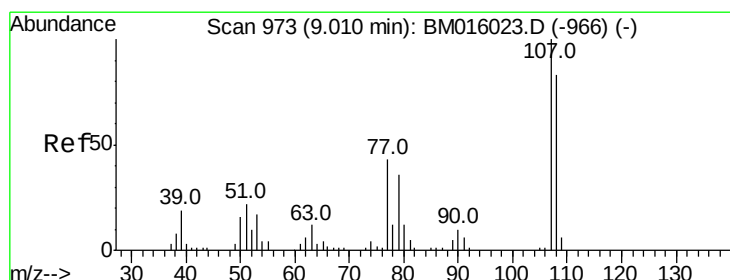
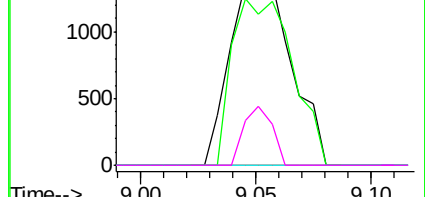
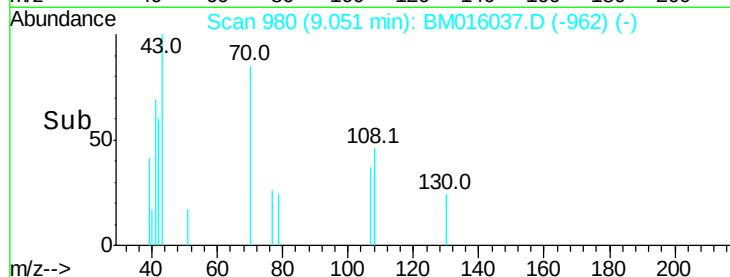
Abundance Ion 70.00 (69.70 to 70.70): BM016037.D (-962) (-)

Ion 42.00 (41.70 to 42.70): BM016037.D (-962) (-)

Ion 101.00 (100.70 to 101.70): BM016037.D (-962) (-)

Ion 130.00 (129.70 to 130.70): BM016037.D (-962) (-)

Time-->



#20

3+4-Methylphenols

Concen: 0.862 ng

RT: 9.05 min Scan# 979

Delta R.T. 0.03 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Tgt Ion:107 Resp: 2416

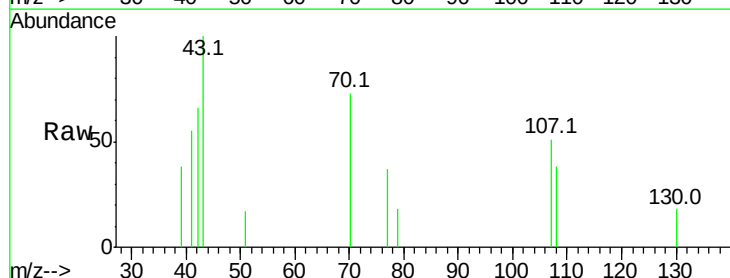
Ion Ratio Lower Upper

107 100

108 74.3 73.2 113.2

77 72.8 10.7 50.7#

79 34.7 9.6 49.6



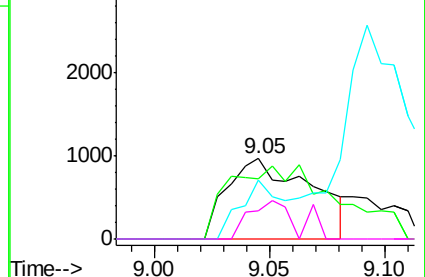
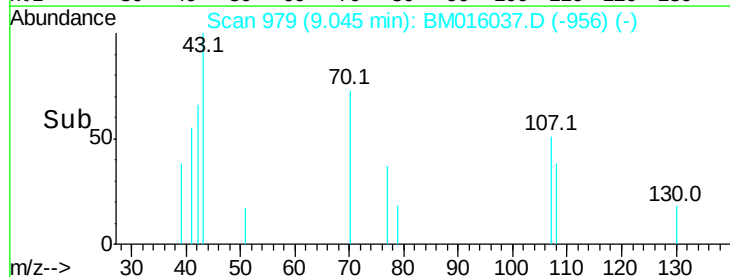
Abundance Ion 107.00 (106.70 to 107.70): BM016037.D (-956) (-)

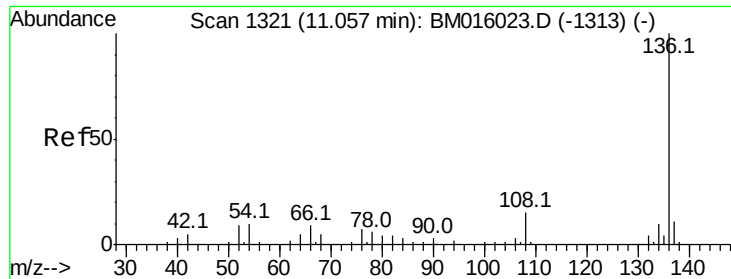
Ion 108.00 (107.70 to 108.70): BM016037.D (-956) (-)

Ion 77.00 (76.70 to 77.70): BM016037.D (-956) (-)

Ion 79.00 (78.70 to 79.70): BM016037.D (-956) (-)

Time-->





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.05 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:136 Resp: 137498

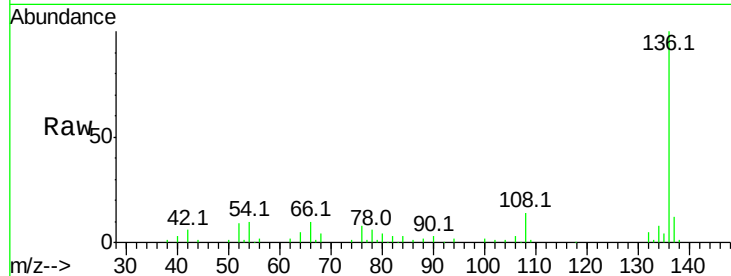
Ion Ratio Lower Upper

136 100

137 12.0 8.7 13.1

54 9.6 4.6 6.8#

68 4.0 3.7 5.5

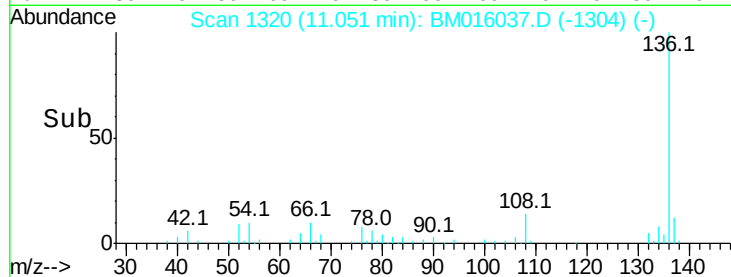


Abundance Ion 136.00 (135.70 to 136.70): E

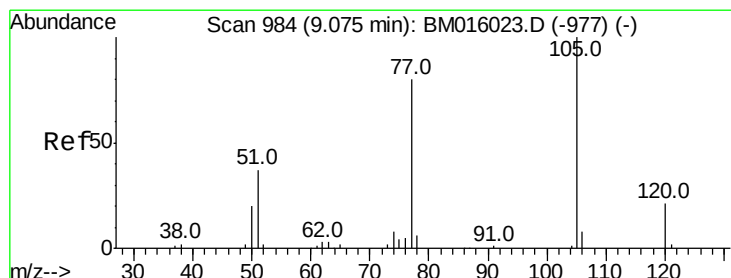
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



Time-->



#22

Acetophenone

Concen: 1.644 ng

RT: 9.10 min Scan# 988

Delta R.T. 0.02 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Tgt Ion:105 Resp: 5691

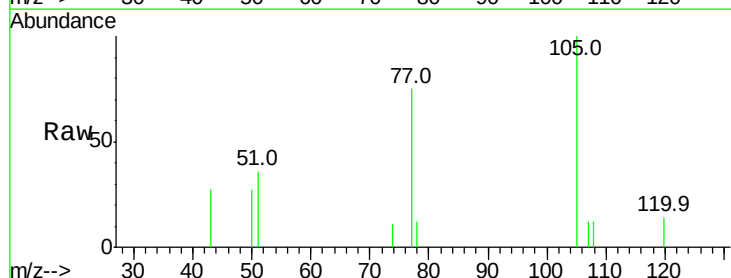
Ion Ratio Lower Upper

105 100

71 0.0 0.6 1.0#

51 36.5 21.6 32.4#

120 13.7 16.1 24.1#

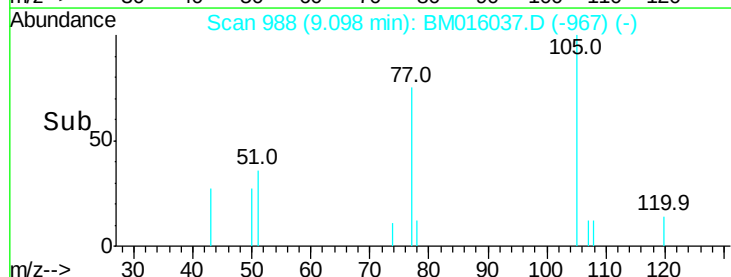


Abundance Ion 105.00 (104.70 to 105.70): E

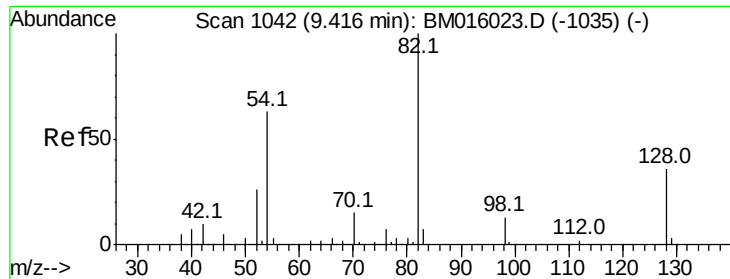
Ion 71.00 (70.70 to 71.70): BM

Ion 51.00 (50.70 to 51.70): BM

Ion 120.00 (119.70 to 120.70): E



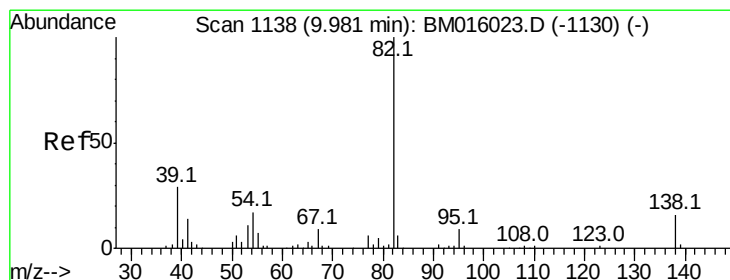
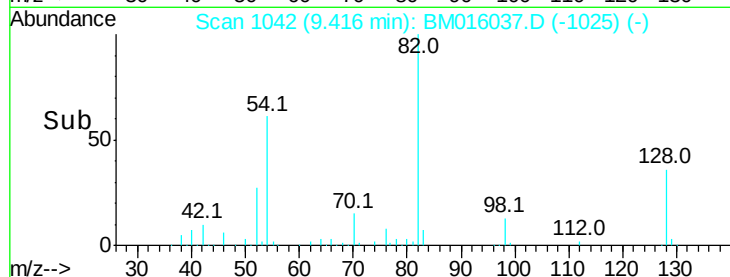
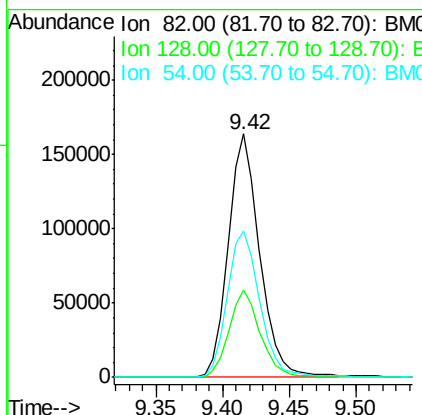
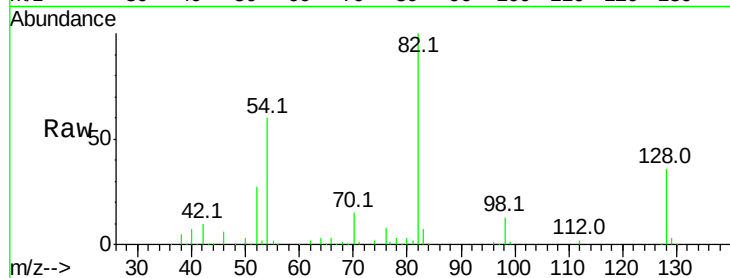
Time-->



#23
 Nitrobenzene-d5
 Concen: 1.644 ng
 RT: 9.42 min Scan# 1042
 Delta R.T. -0.00 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

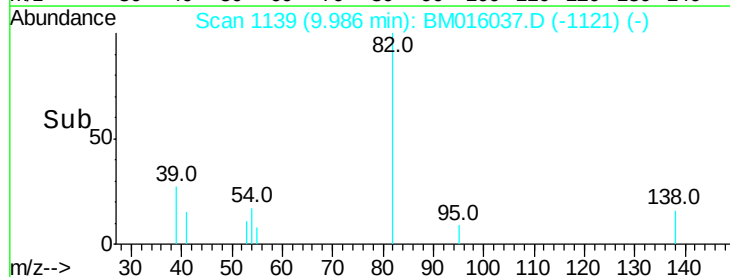
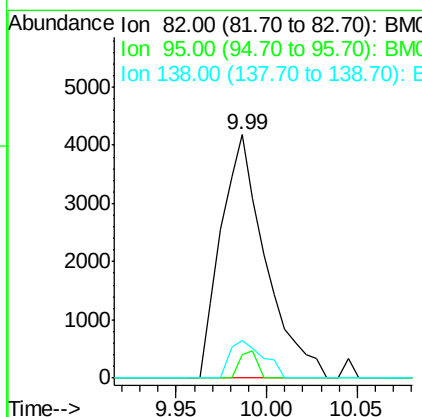
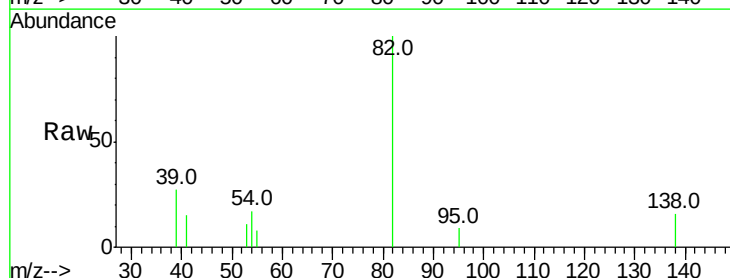
Instrument :
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 MDL-SOIL-03-QT3-2018

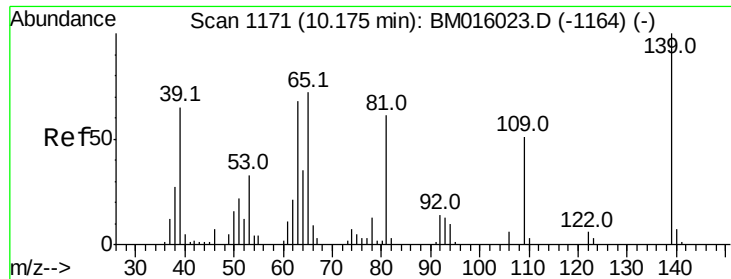
Tot Ion	82	Resp	270148
Ion Ratio	100	Lower	Upper
128	35.9	32.8	49.2
54	60.3	40.6	60.8



#25
 Isophorone
 Concen: 1.770 ng
 RT: 9.99 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

Tgt Ion	82	Resp	7157
Ion Ratio	100	Lower	Upper
95	9.5	5.8	8.6#
138	15.6	16.3	24.5#

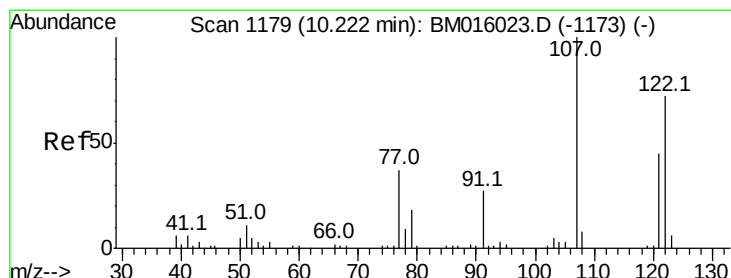
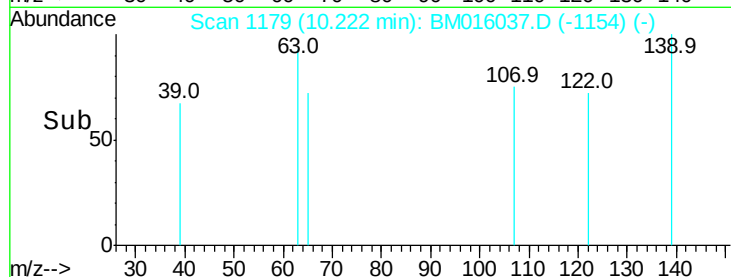
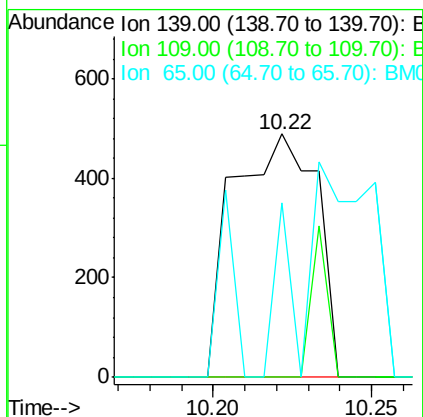
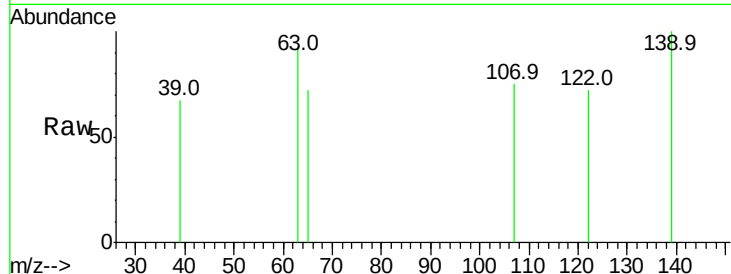




#26
2-Nitrophenol
Concen: 0.720 ng
RT: 10.22 min Scan# 1179
Delta R.T. 0.05 min
Lab File: BM016037.D
Acq: 23 Jul 2018 22:05

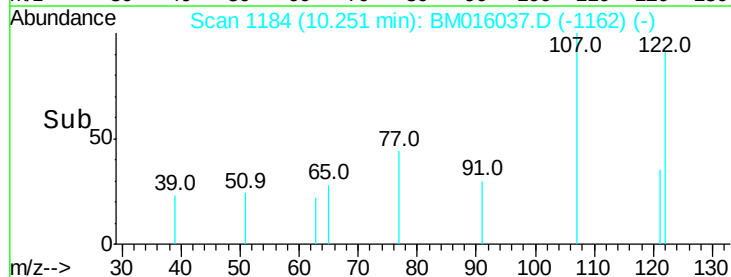
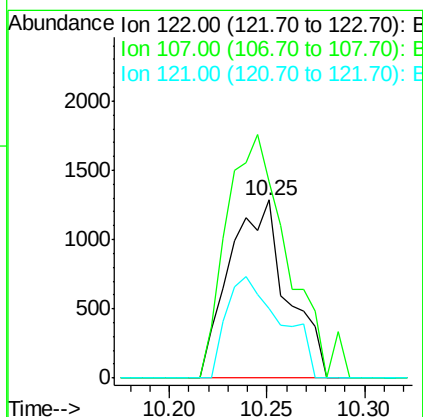
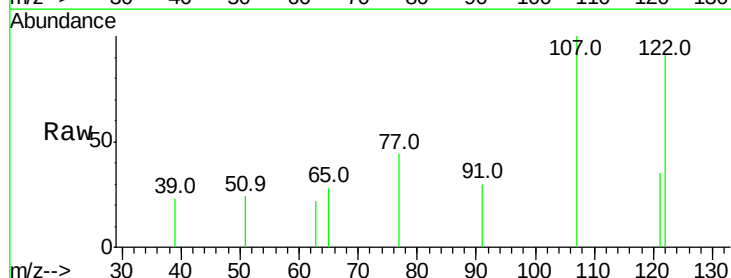
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

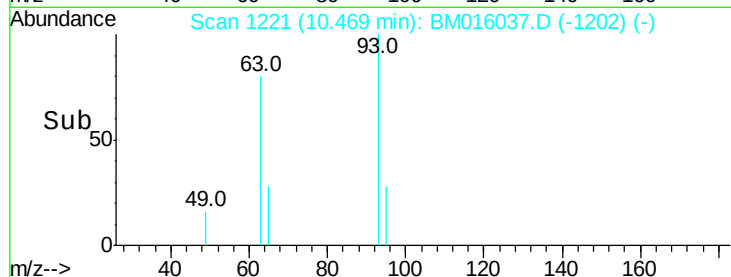
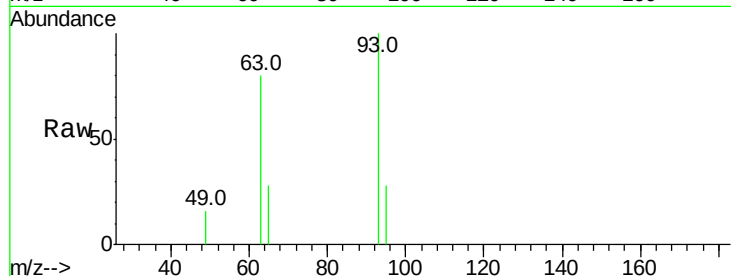
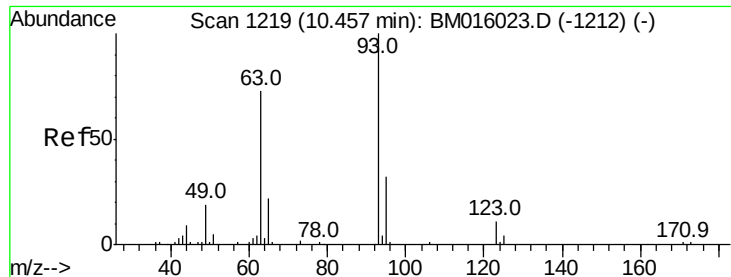
Tot Ion:139 Resp: 894
Ion Ratio Lower Upper
139 100
109 0.0 20.1 30.1#
65 71.8 31.5 47.3#



#27
2,4-Dimethylphenol
Concen: 1.524 ng
RT: 10.25 min Scan# 1184
Delta R.T. 0.03 min
Lab File: BM016037.D
Acq: 23 Jul 2018 22:05

Tgt Ion:122 Resp: 2638
Ion Ratio Lower Upper
122 100
107 110.1 84.7 127.1
121 38.8 46.6 69.8#

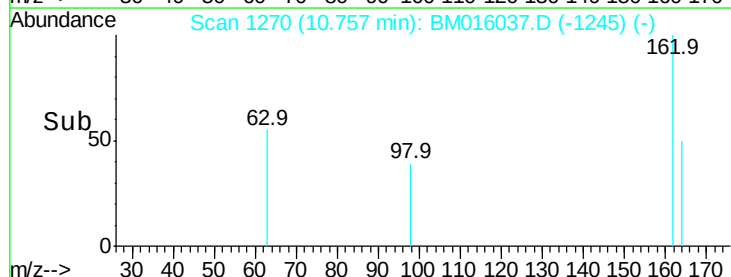
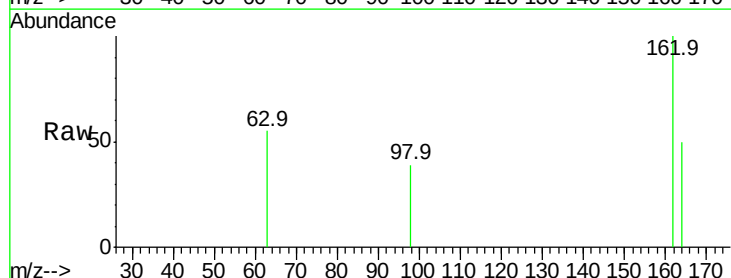
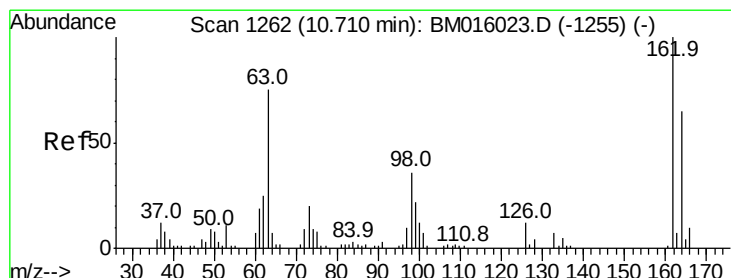
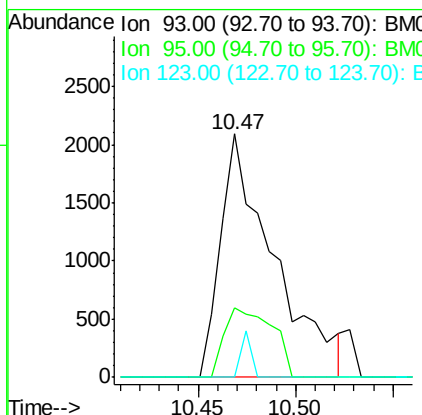




#28
bis(2-Chloroethoxy)methane
Concen: 1.498 ng
RT: 10.47 min Scan# 1221
Delta R.T. 0.01 min
Lab File: BM016037.D
Acq: 23 Jul 2018 22:05

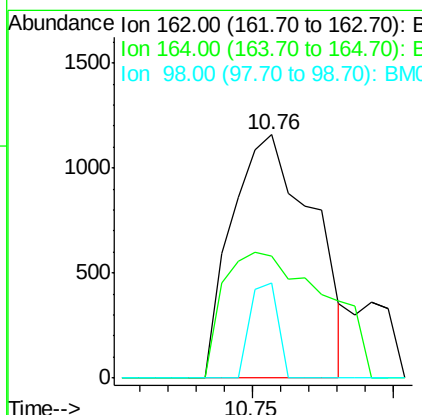
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

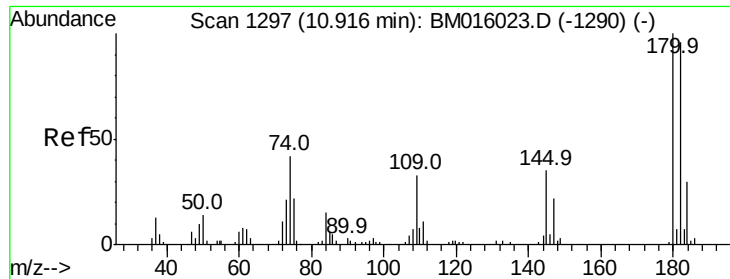
Tot Ion: 93 Resp: 3938
Ion Ratio Lower Upper
93 100
95 28.3 25.5 38.3
123 0.0 8.6 13.0#



#29
2,4-Dichlorophenol
Concen: 1.126 ng
RT: 10.76 min Scan# 1270
Delta R.T. 0.05 min
Lab File: BM016037.D
Acq: 23 Jul 2018 22:05

Tgt Ion: 162 Resp: 2315
Ion Ratio Lower Upper
162 100
164 49.9 42.8 82.8
98 38.9 14.5 54.5

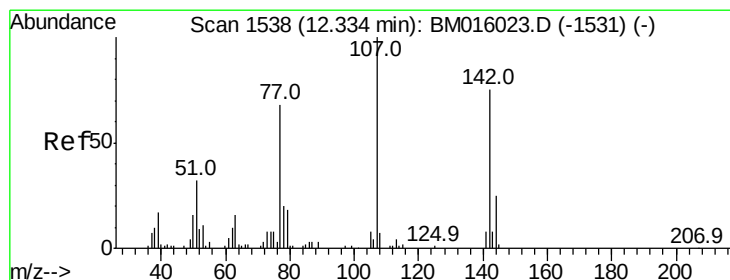
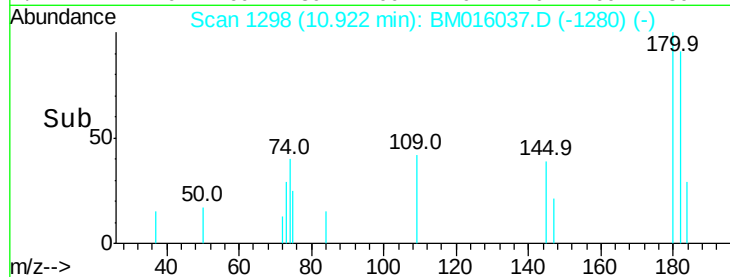
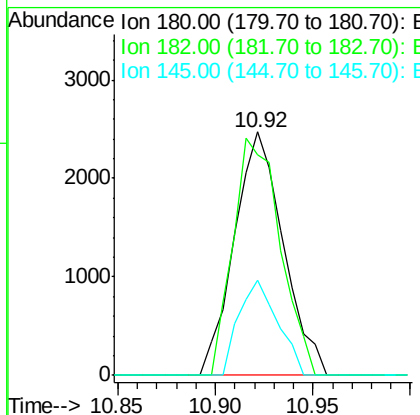
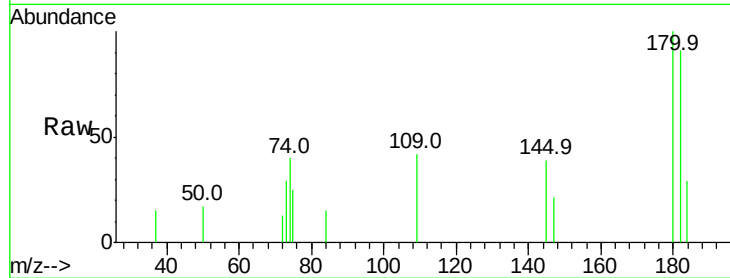




#30
 1,2,4-Trichlorobenzene
 Concen: 1.723 ng
 RT: 10.92 min Scan# 1298
 Delta R.T. 0.01 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

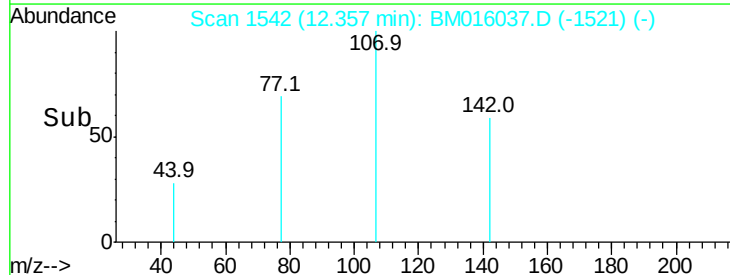
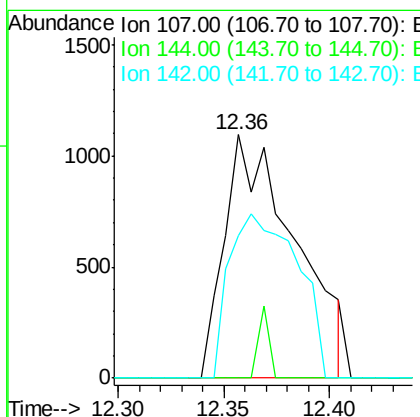
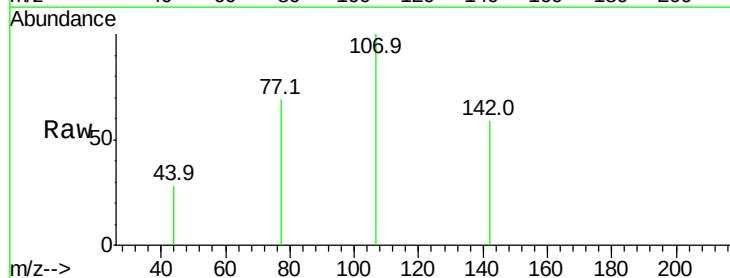
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

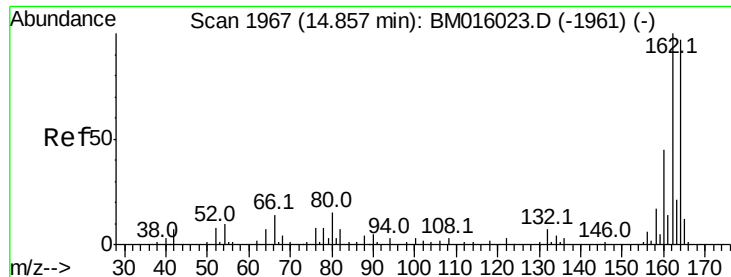
Tot Ion:180 Resp: 4304
 Ion Ratio Lower Upper
 180 100
 182 90.8 77.6 116.4
 145 39.2 23.4 35.2#



#36
 4-Chloro-3-methylphenol
 Concen: 1.126 ng
 RT: 12.36 min Scan# 1542
 Delta R.T. 0.02 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

Tgt Ion:107 Resp: 2547
 Ion Ratio Lower Upper
 107 100
 144 0.0 23.3 34.9#
 142 58.8 72.6 109.0#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.86 min Scan# 1967

Delta R.T. -0.00 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

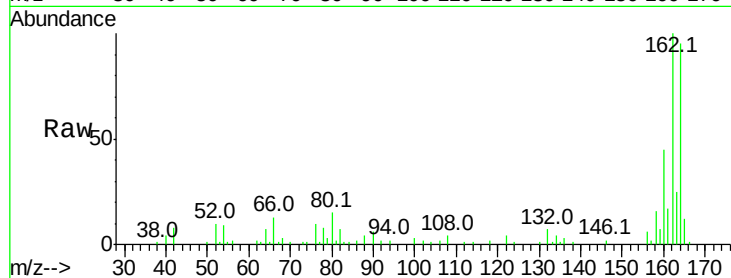
Tot Ion:164 Resp: 73277

Ion Ratio Lower Upper

164 100

162 105.2 82.4 123.6

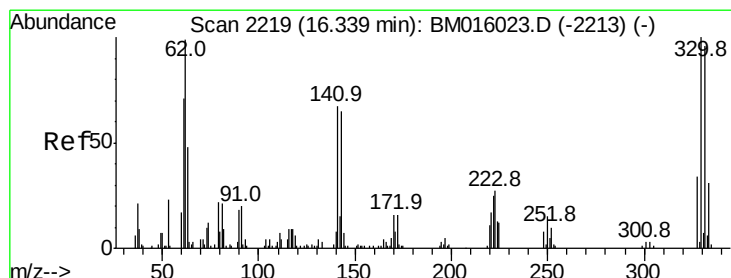
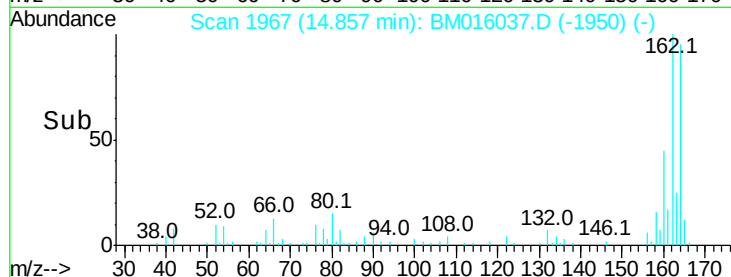
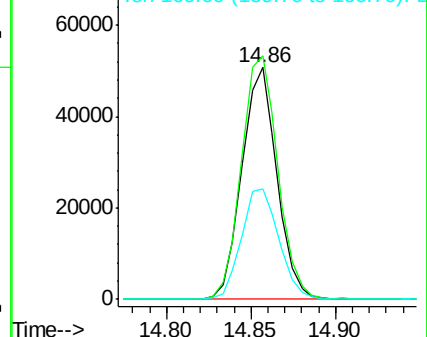
160 47.7 35.8 53.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: N.D. ng

RT: 16.34 min Scan# 2219

Delta R.T. -0.00 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

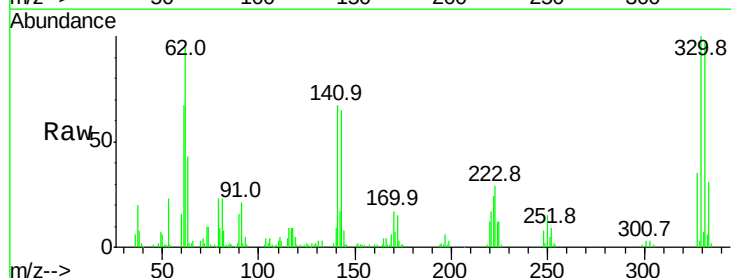
Tgt Ion:330 Resp: 121420

Ion Ratio Lower Upper

330 100

332 96.3 0.0 0.0#

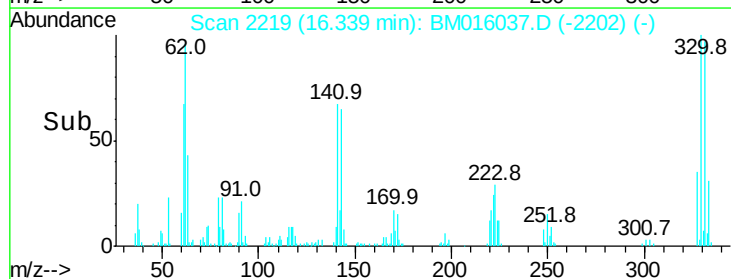
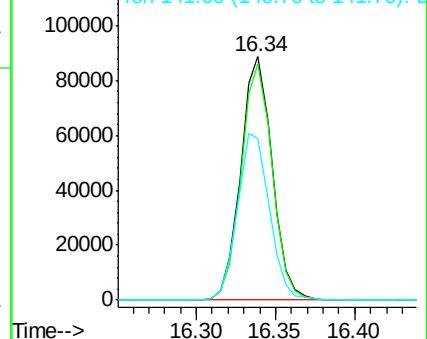
141 70.1 0.0 0.0#

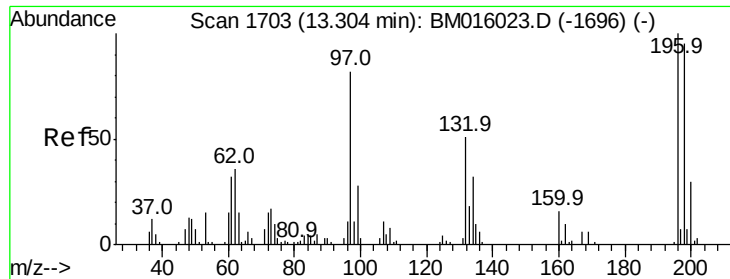


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

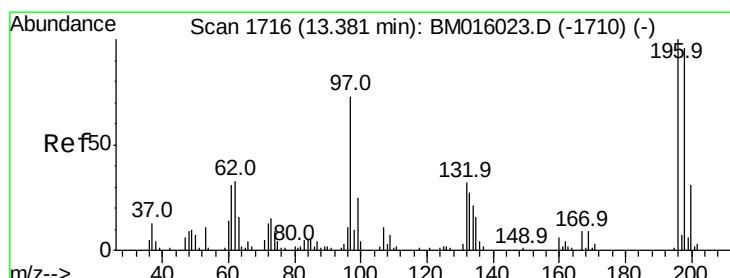
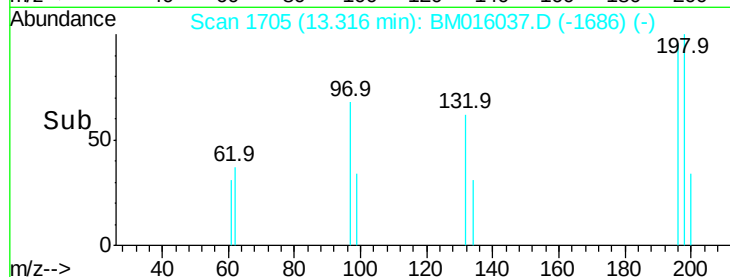
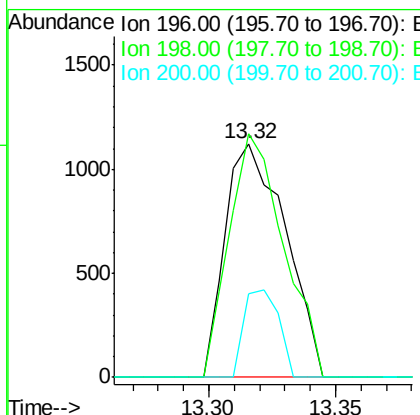
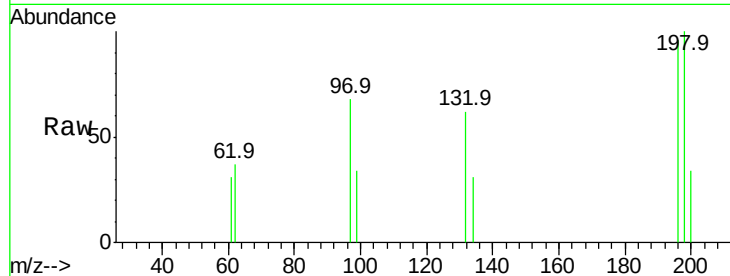




#42
 2,4,6-Trichlorophenol
 Concen: 1.194 ng
 RT: 13.32 min Scan# 1705
 Delta R.T. 0.01 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

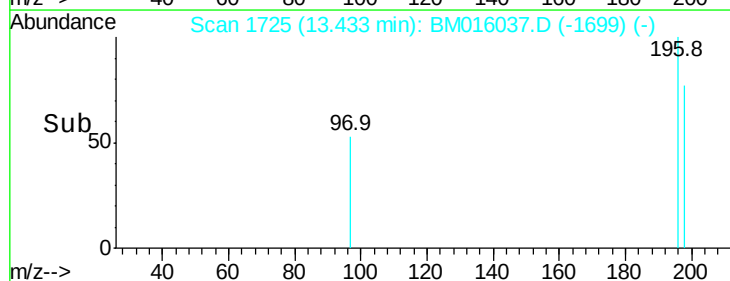
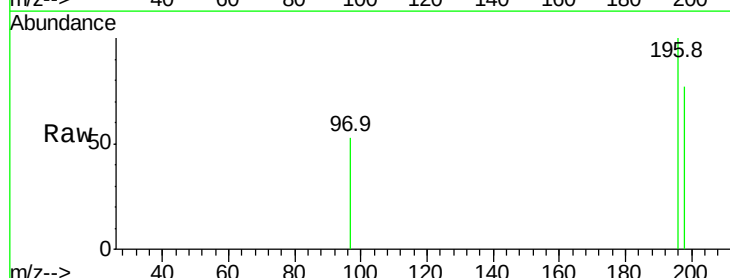
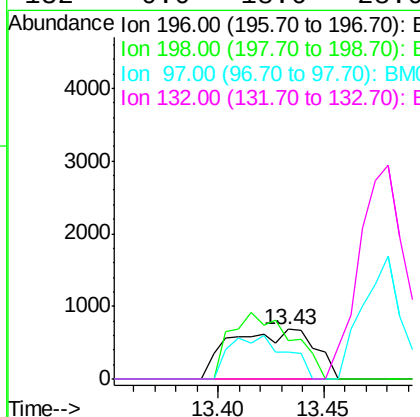
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

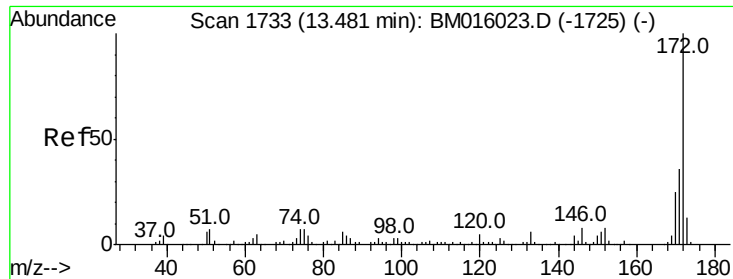
Tot Ion:196 Resp: 1864
 Ion Ratio Lower Upper
 196 100
 198 104.1 76.3 114.5
 200 35.9 25.6 38.4



#43
 2,4,5-Trichlorophenol
 Concen: 1.171 ng
 RT: 13.43 min Scan# 1725
 Delta R.T. 0.05 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

Tgt Ion:196 Resp: 1886
 Ion Ratio Lower Upper
 196 100
 198 77.3 79.4 119.0#
 97 53.1 26.8 40.2#
 132 0.0 18.6 28.0#

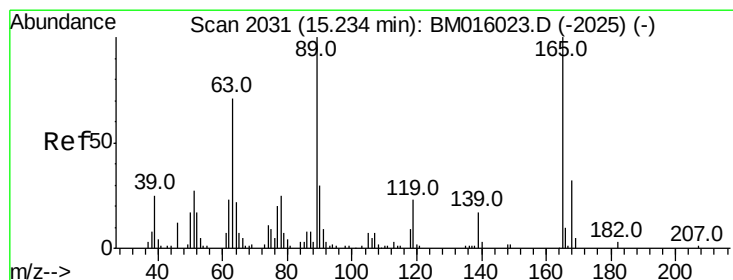
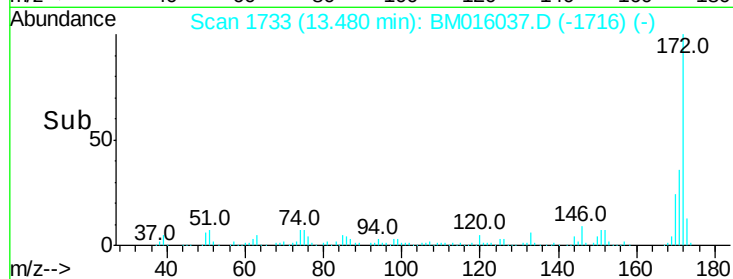
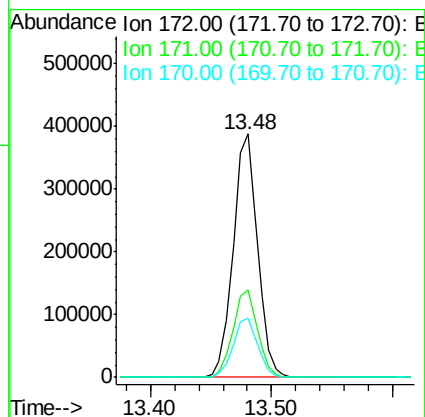
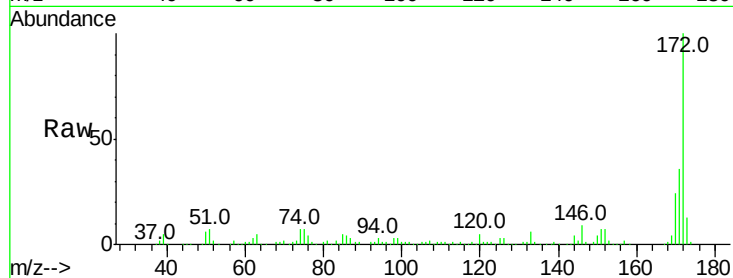




#44
 2-Fluorobiphenyl
 Concen: 1.171 ng
 RT: 13.48 min Scan# 1733
 Delta R.T. -0.00 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

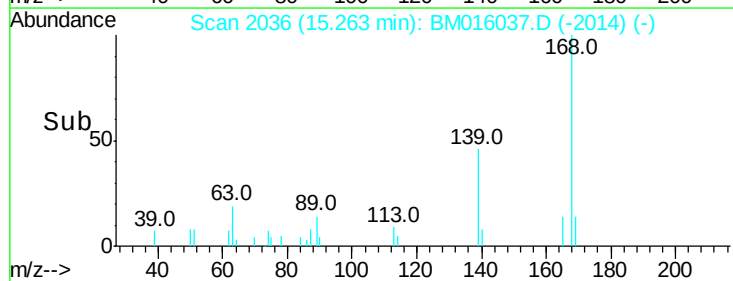
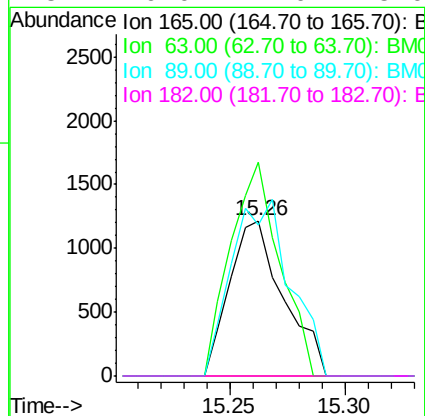
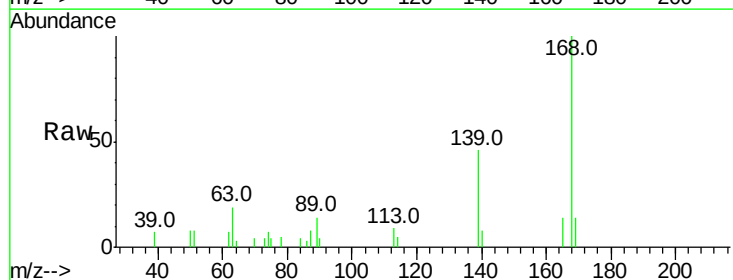
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

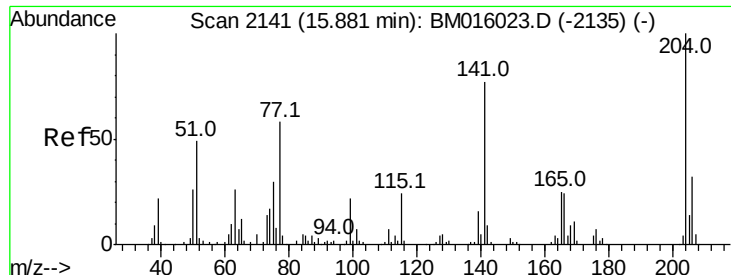
Tot Ion:172 Resp: 545955
 Ion Ratio Lower Upper
 172 100
 171 36.0 28.5 42.7
 170 24.5 18.8 28.2



#56
 2,4-Dinitrotoluene
 Concen: 1.075 ng
 RT: 15.26 min Scan# 2036
 Delta R.T. 0.03 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

Tgt Ion:165 Resp: 1983
 Ion Ratio Lower Upper
 165 100
 63 137.4 52.4 78.6#
 89 97.4 72.4 108.6
 182 0.0 2.0 3.0#

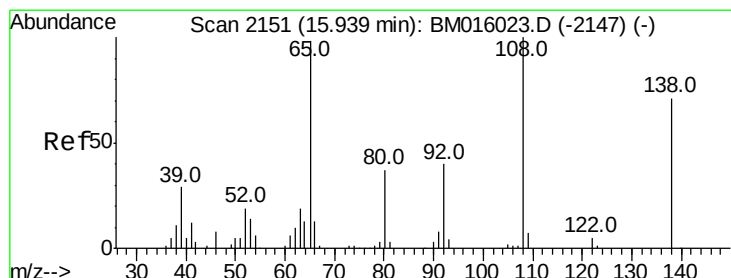
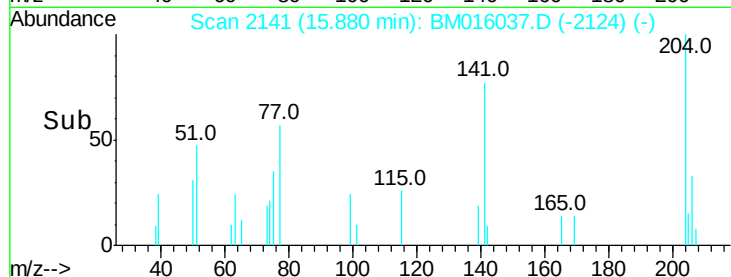
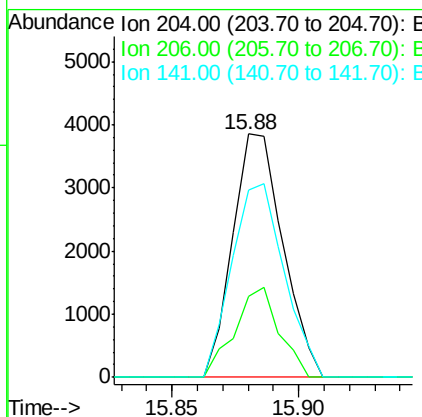
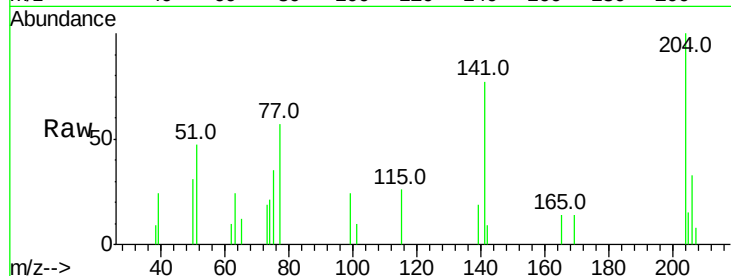




#60
 4-Chlorophenyl-phenylether
 Concen: 1.683 ng
 RT: 15.88 min Scan# 2141
 Delta R.T. -0.00 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

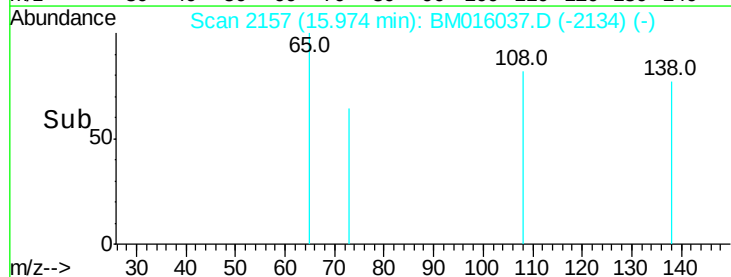
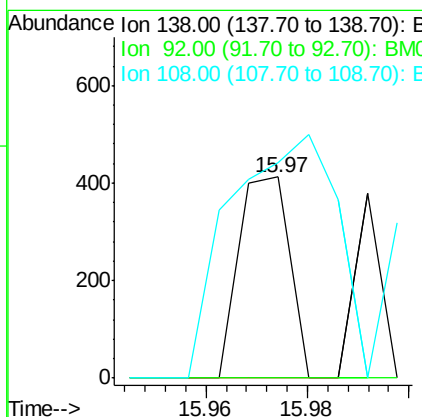
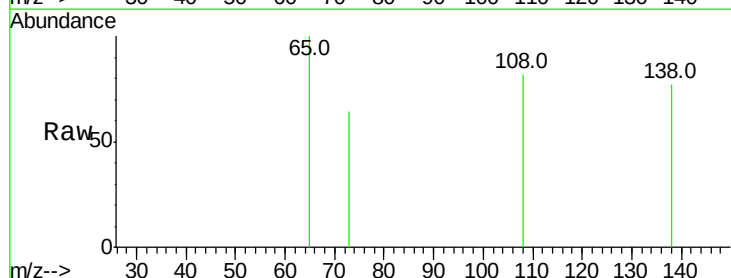
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

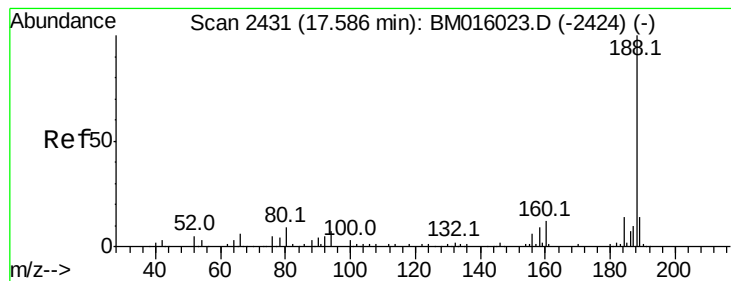
Tot Ion:204 Resp: 5314
 Ion Ratio Lower Upper
 204 100
 206 33.1 26.6 39.8
 141 76.7 45.2 67.8#



#61
 4-Nitroaniline
 Concen: 0.214 ng
 RT: 15.97 min Scan# 2157
 Delta R.T. 0.03 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

Tgt Ion:138 Resp: 286
 Ion Ratio Lower Upper
 138 100
 92 0.0 16.7 56.7#
 108 107.0 37.6 77.6#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.59 min Scan# 2431

Delta R.T. -0.00 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

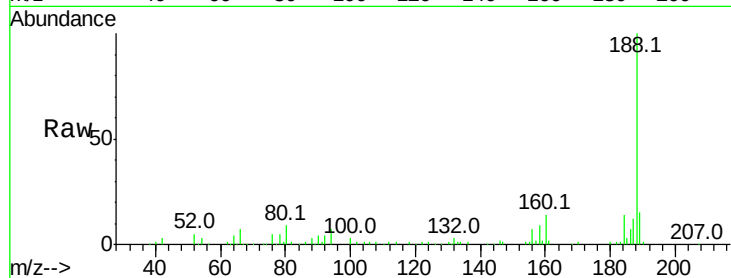
Tot Ion:188 Resp: 160823

Ion Ratio Lower Upper

188 100

94 6.7 8.7 13.1#

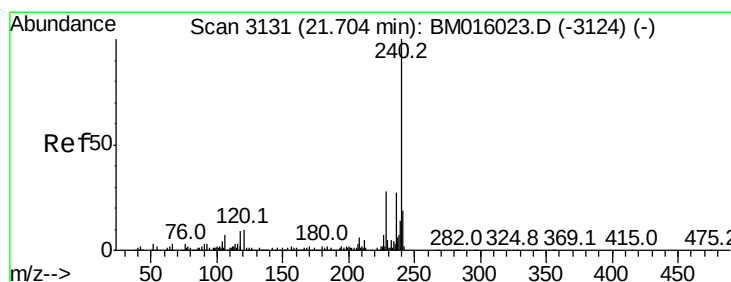
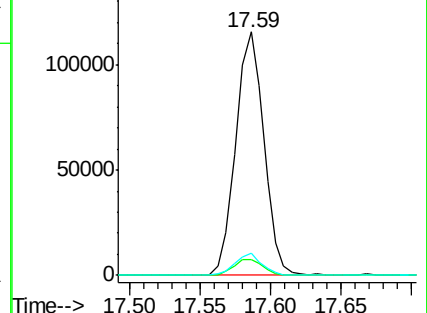
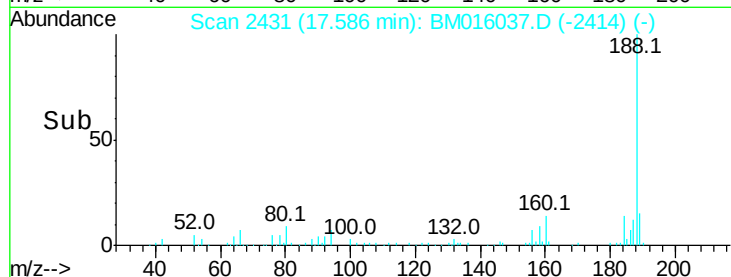
80 9.3 9.3 13.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3130

Delta R.T. -0.01 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

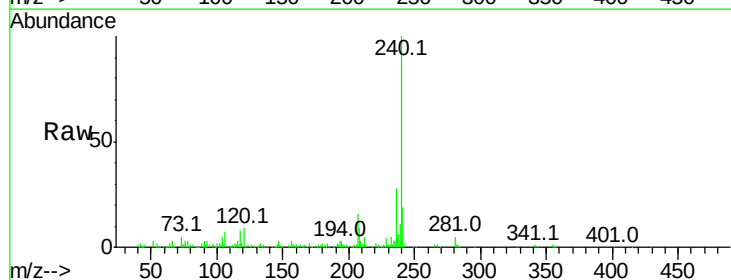
Tgt Ion:240 Resp: 176398

Ion Ratio Lower Upper

240 100

120 9.2 8.2 12.2

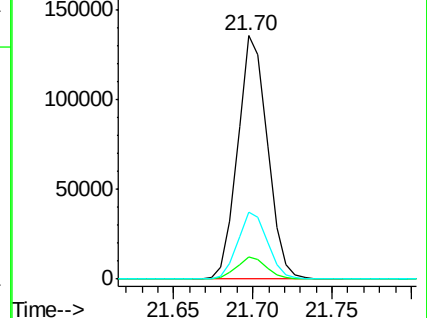
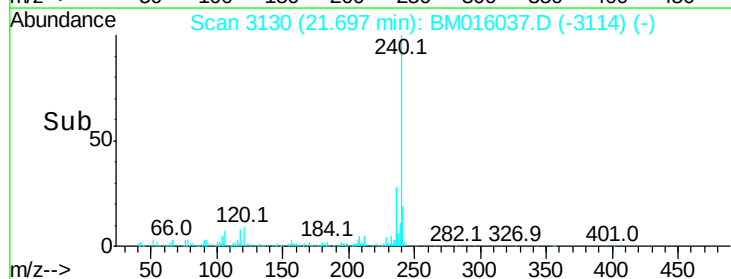
236 27.6 20.0 30.0

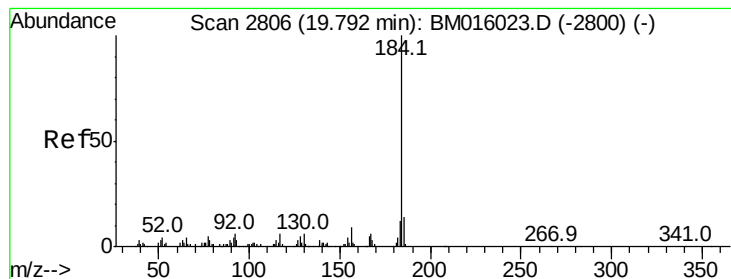


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 0.511 ng

RT: 19.82 min Scan# 2810

Delta R.T. 0.02 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

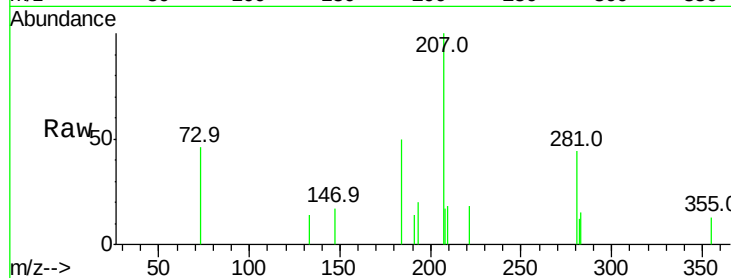
Tot Ion:184 Resp: 2521

Ion Ratio Lower Upper

184 100

185 0.0 11.3 16.9#

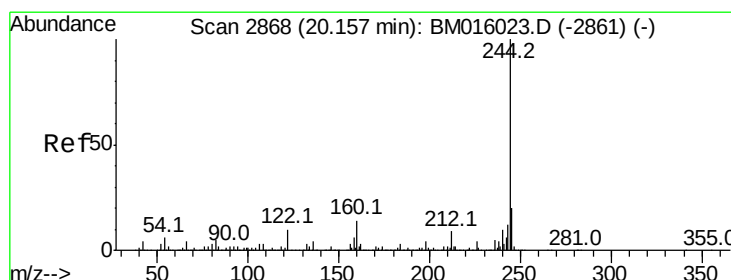
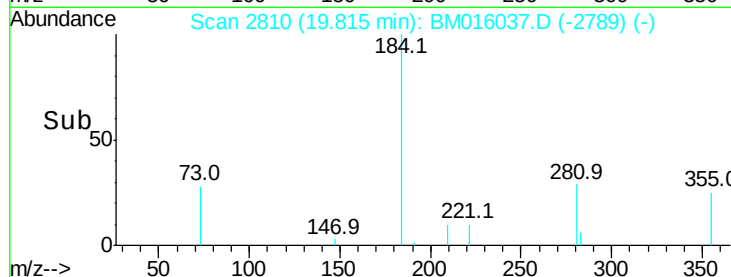
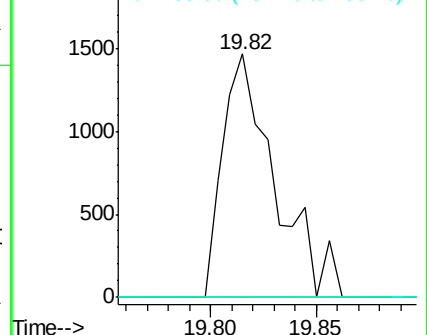
183 0.0 8.9 13.3#



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: N.D. ng

RT: 20.16 min Scan# 2868

Delta R.T. -0.00 min

Lab File: BM016037.D

Acq: 23 Jul 2018 22:05

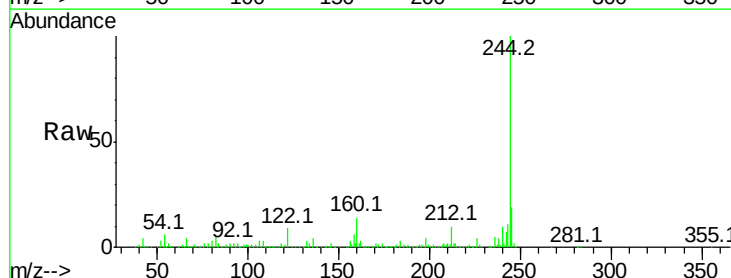
Tgt Ion:244 Resp: 1055262

Ion Ratio Lower Upper

244 100

212 9.6 4.9 7.3#

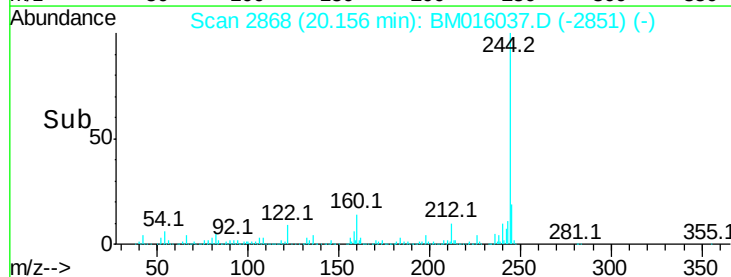
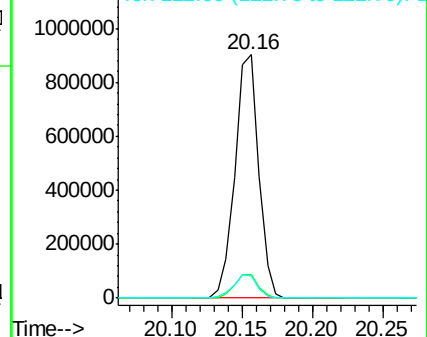
122 9.0 6.2 9.4

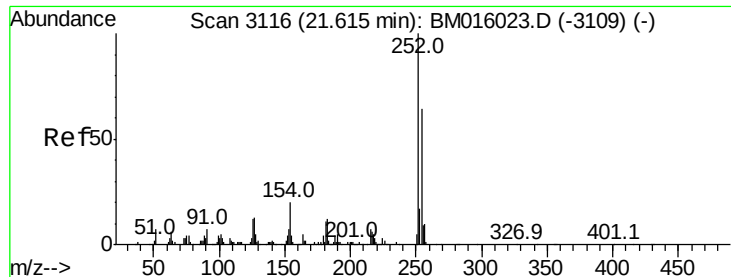


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

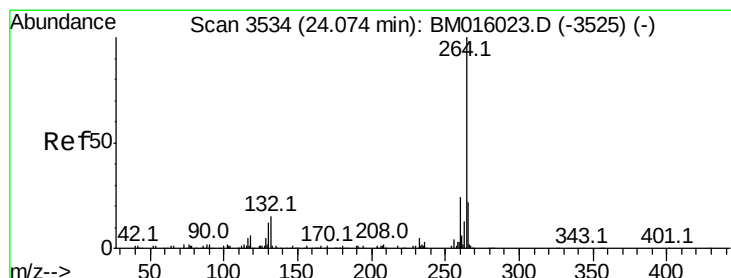
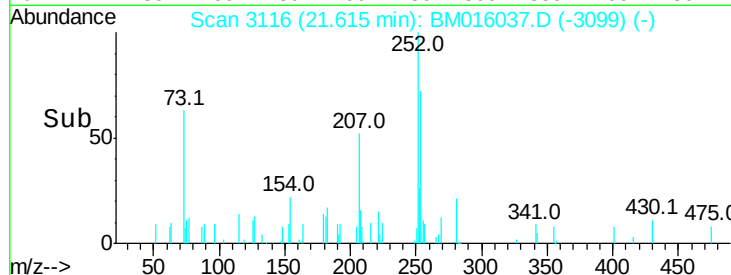
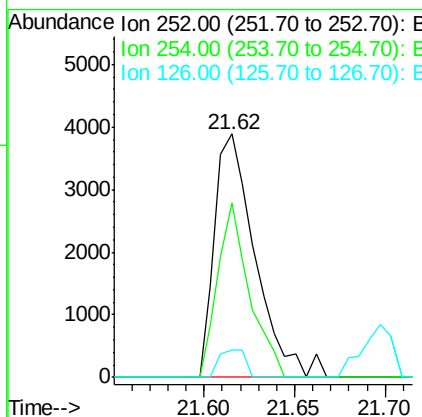
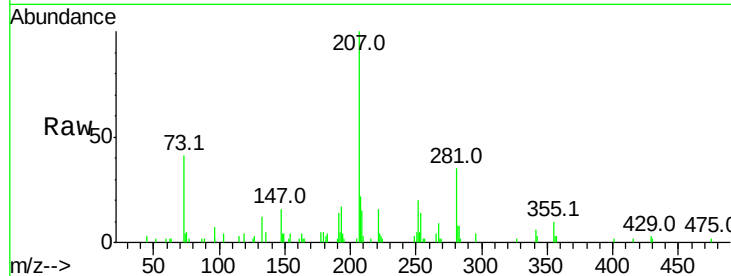




#81
 3,3'-Dichlorobenzidine
 Concen: 1.388 ng
 RT: 21.62 min Scan# 3116
 Delta R.T. -0.00 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion:252 Resp: 6076
 Ion Ratio Lower Upper
 252 100
 254 71.8 51.9 77.9
 126 11.3 9.8 14.8



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.07 min Scan# 3534
 Delta R.T. -0.00 min
 Lab File: BM016037.D
 Acq: 23 Jul 2018 22:05

Tgt Ion:264 Resp: 191622
 Ion Ratio Lower Upper
 264 100
 260 25.0 18.6 27.8
 265 22.7 17.3 25.9

