

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101718\
 Data File : BM017183.D
 Acq On : 18 Oct 2018 09:10
 Operator : MJ/SJ
 Sample : J5164-01
 Misc : LOD 1 PPM
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Quant Time: Oct 18 14:36:26 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM101718.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 17 14:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	193736	20.00	ng	0.00
21) Naphthalene-d8	10.45	136	804139	20.00	ng	0.00
39) Acenaphthene-d10	14.31	164	462652	20.00	ng	0.00
64) Phenanthrene-d10	17.06	188	1101134	20.00	ng	-0.01
76) Chrysene-d12	21.25	240	1273902	20.00	ng	-0.01
87) Perylene-d12	23.47	264	1292315	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.28	112	1599751	139.66	ng	0.00
7) Phenol-d6	6.85	99	2088515	133.87	ng	0.00
23) Nitrobenzene-d5	8.82	82	1223133	88.96	ng	-0.01
42) 2,4,6-Tribromophenol	15.80	330	935094	149.46	ng	-0.01
45) 2-Fluorobiphenyl	12.93	172	2984839	85.84	ng	0.00
79) Terphenyl-d14	19.70	244	4744812	83.95	ng	0.00

Target Compounds

						Qvalue
6) Aniline	7.01	93	11847	0.607	ng	93
8) 2-Chlorophenol	7.24	128	13840	1.044	ng	90
9) Benzaldehyde	6.83	77	14207	1.428	ng	# 70
10) Phenol	6.88	94	17118	1.020	ng	# 74
11) bis(2-Chloroethyl)ether	7.10	93	12425	0.928	ng	97
12) 1,3-Dichlorobenzene	7.56	146	15540	1.006	ng	94
13) 1,4-Dichlorobenzene	7.70	146	15731	0.997	ng	93
14) 1,2-Dichlorobenzene	8.02	146	14828	0.975	ng	97
15) Benzyl Alcohol	7.92	79	10015	0.878	ng	95
16) 2,2'-oxybis(1-Chloropropan	8.20	45	16672	0.892	ng	93
18) Hexachloroethane	8.73	117	5333	0.987	ng	95
24) Nitrobenzene	8.86	77	17075	1.174	ng	93
31) Naphthalene	10.50	128	40934	1.039	ng	97
34) Hexachlorobutadiene	10.78	225	8413	0.950	ng	92
37) 2-Methylnaphthalene	12.12	142	29784	1.104	ng	95
40) 1,2,4,5-Tetrachlorobenzene	12.49	216	15342	0.942	ng	97
46) 1,1'-Biphenyl	13.14	154	43457	1.044	ng	98
47) 2-Chloronaphthalene	13.18	162	30186	0.986	ng	99
48) 2-Nitroaniline	13.40	65	5520	6.250	ng	98
49) Acenaphthylene	14.03	152	41338	0.931	ng	98
50) Dimethylphthalate	13.77	163	36627	1.026	ng	# 95
51) 2,6-Dinitrotoluene	13.90	165	5572	0.709	ng	96
52) Acenaphthene	14.37	154	29058	1.042	ng	96
55) Dibenzofuran	14.72	168	48301	1.042	ng	96
58) Fluorene	15.36	166	35234	1.027	ng	95
59) 2,3,4,6-Tetrachlorophenol	14.95	232	7493	0.810	ng	# 97
60) Diethylphthalate	15.15	149	35094	0.991	ng	99
63) Azobenzene	15.66	77	27546	0.801	ng	96
66) n-Nitrosodiphenylamine	15.58	169	28289	0.849	ng	93
67) 4-Bromophenyl-phenylether	16.26	248	10618	0.878	ng	92
68) Hexachlorobenzene	16.36	284	13733	0.978	ng	94
69) Atrazine	16.54	200	10380	0.871	ng	98
71) Phenanthrene	17.10	178	64163	1.080	ng	98
72) Anthracene	17.20	178	55036	0.975	ng	100

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

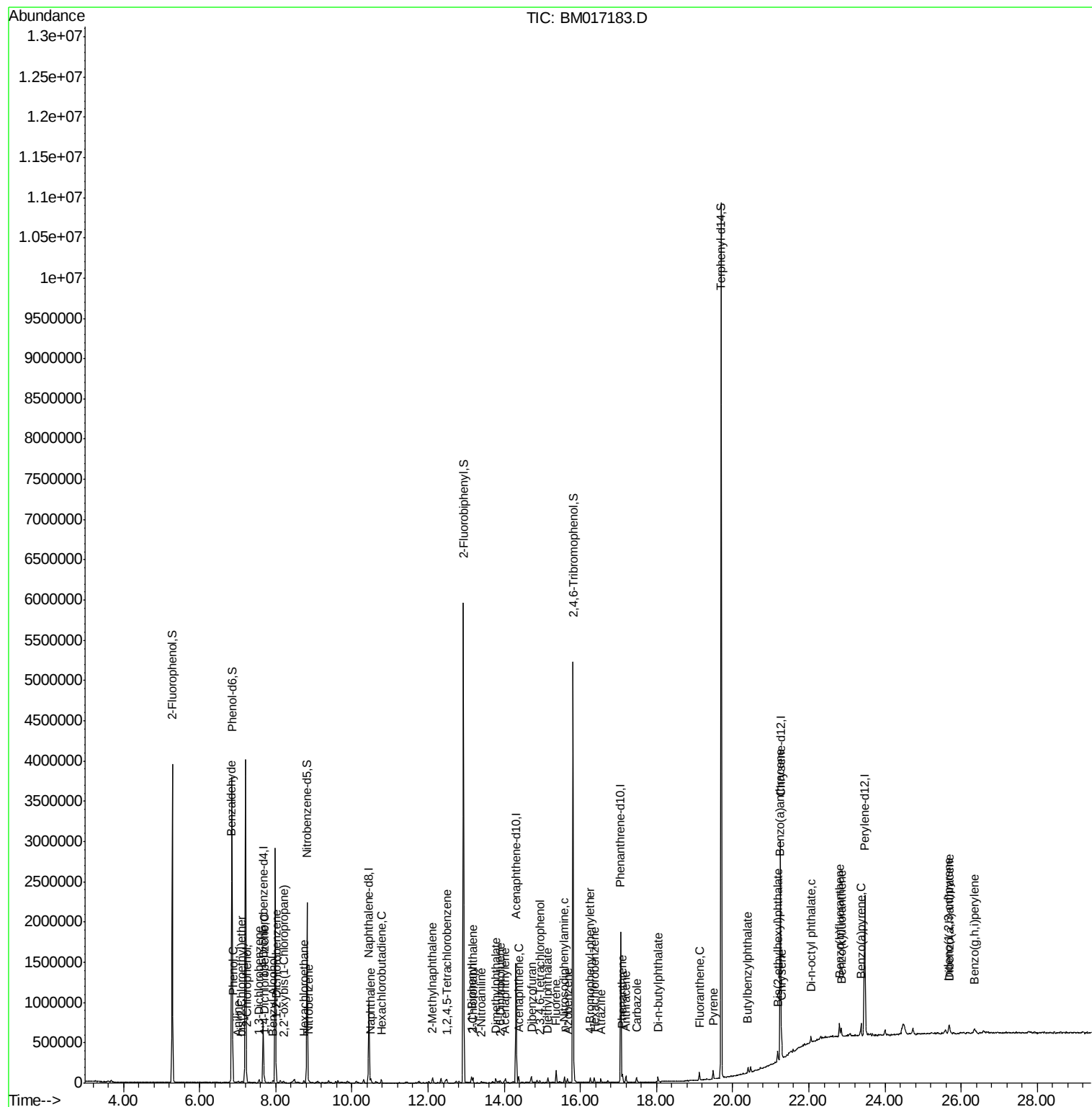
73) Carbazole	17.47	167	45988	0.798	nq	96
74) Di-n-butylphthalate	18.04	149	44786	0.736	nq	99
75) Fluoranthene	19.13	202	66902	1.001	nq	98
78) Pyrene	19.49	202	69025	0.969	nq	99
80) Butylbenzylphthalate	20.40	149	20794	7.829	nq	89
81) Benzo(a)anthracene	21.24	228	75843	1.058	nq	97
83) Chrysene	21.29	228	75033	1.057	nq	97
84) Bis(2-ethylhexyl)phthalate	21.18	149	26585	5.878	nq	99
85) Di-n-octyl phthalate	22.05	149	45980	6.150	nq	# 88
86) Indeno(1,2,3-cd)pyrene	25.67	276	80001	1.008	nq	98
88) Benzo(b)fluoranthene	22.80	252	74915	1.060	nq	97
89) Benzo(k)fluoranthene	22.85	252	68451	0.965	nq	96
90) Benzo(a)pyrene	23.37	252	66929	0.998	nq	97
91) Dibenzo(a,h)anthracene	25.69	278	68212	1.024	nq	96
92) Benzo(a,h,i)perylene	26.36	276	69352	1.050	nq	99

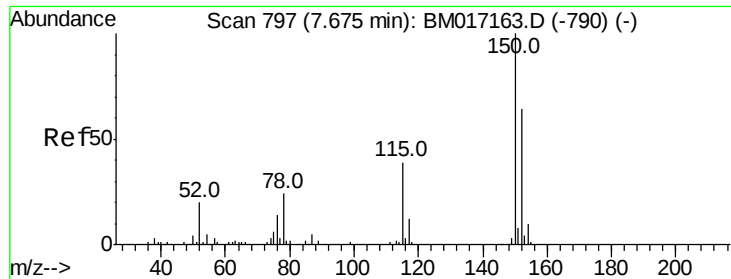
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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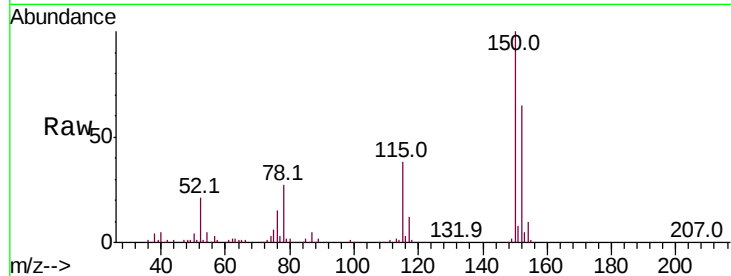


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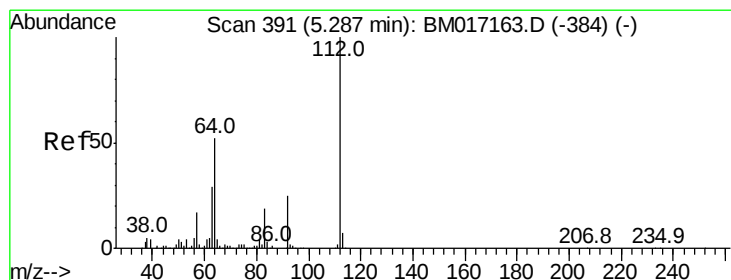
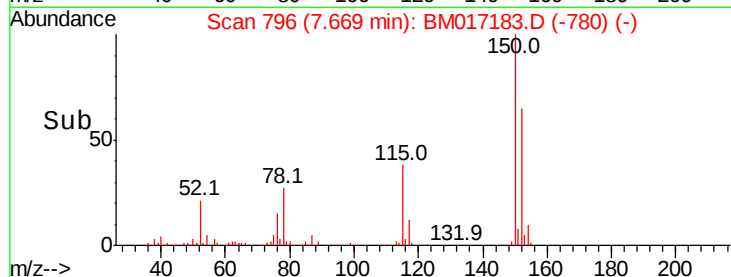
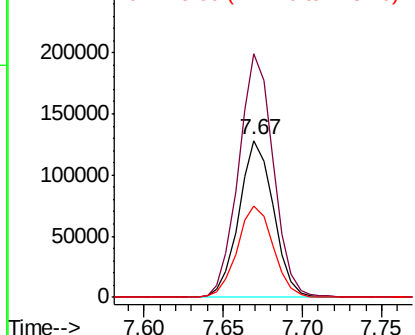
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.67 min Scan# 796
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tot Ion:152 Resp: 193736
Ion Ratio Lower Upper
152 100
150 154.9 124.3 186.5
115 58.4 48.1 72.1



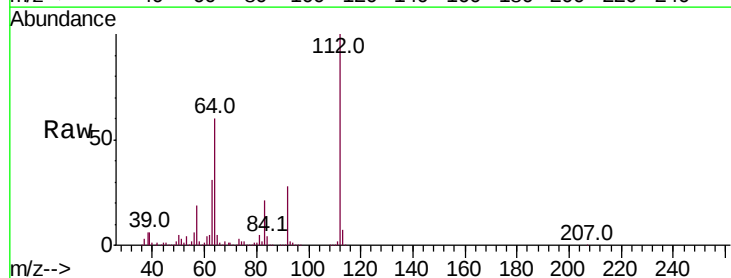
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



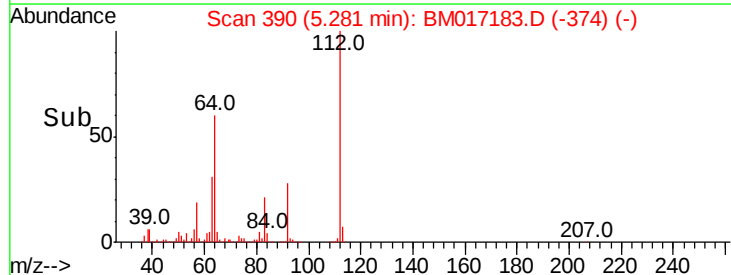
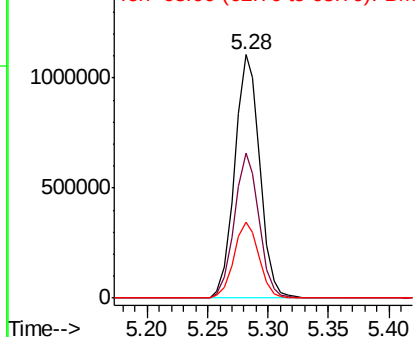
#5

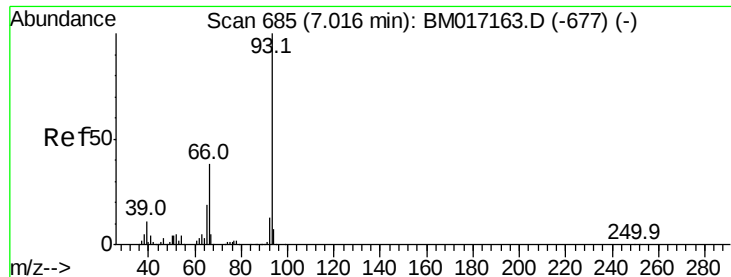
2-Fluorophenol
Concen: 139.660 ng
RT: 5.28 min Scan# 390
Delta R.T. -0.00 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion:112 Resp: 1599751
Ion Ratio Lower Upper
112 100
64 59.8 41.7 62.5
63 31.4 23.0 34.4



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





#6

Aniline

Concen: 0.607 ng

RT: 7.01 min Scan# 684

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

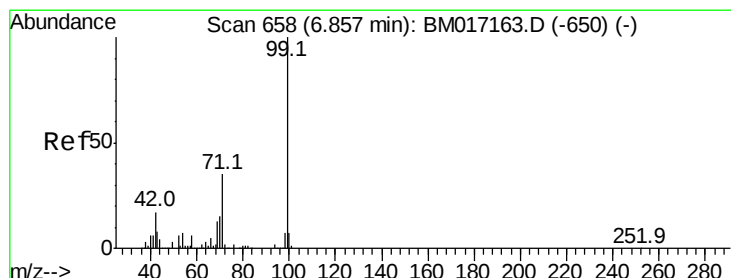
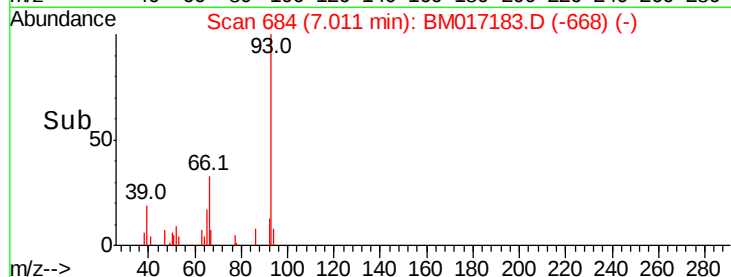
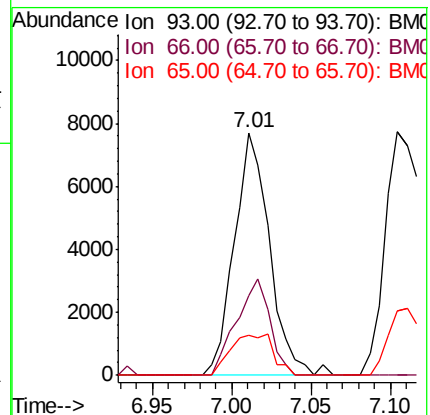
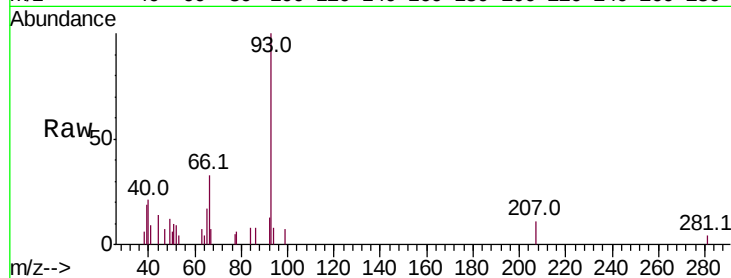
Tot Ion: 93 Resp: 11847

Ion Ratio Lower Upper

93 100

66 32.9 30.4 45.6

65 16.7 15.3 22.9



#7

Phenol-d6

Concen: 133.874 ng

RT: 6.85 min Scan# 657

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

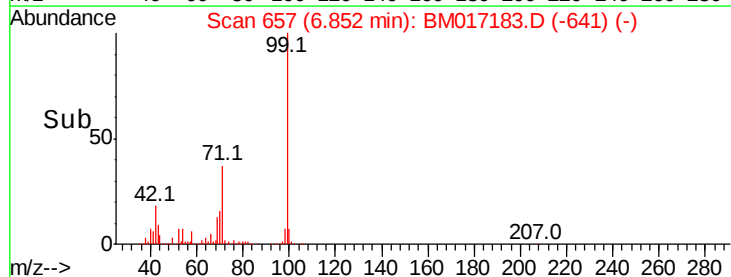
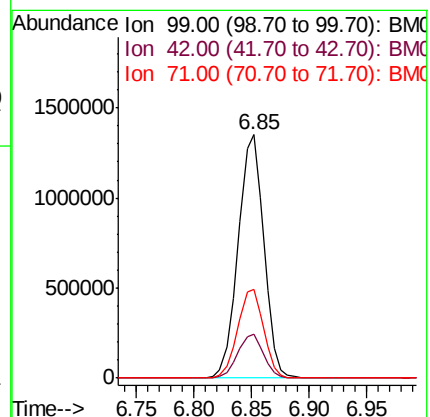
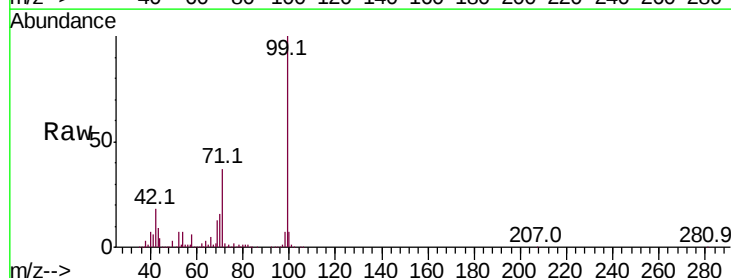
Tgt Ion: 99 Resp: 2088515

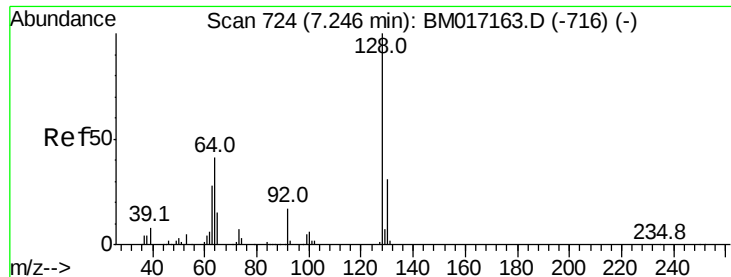
Ion Ratio Lower Upper

99 100

42 17.9 13.3 19.9

71 36.7 28.0 42.0





#8

2-Chlorophenol

Concen: 1.044 ng

RT: 7.24 min Scan# 723

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

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LOD-MDL-SOIL-01-QT4-2018

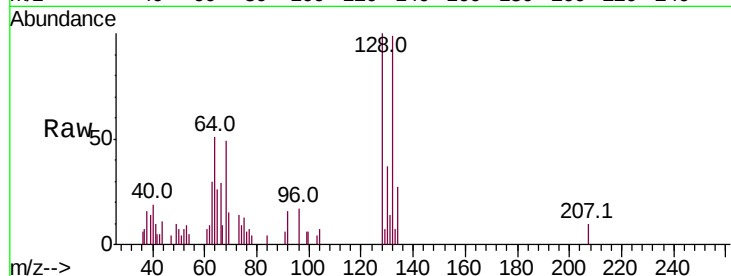
Tot Ion:128 Resp: 13840

Ion Ratio Lower Upper

128 100

130 36.9 11.0 51.0

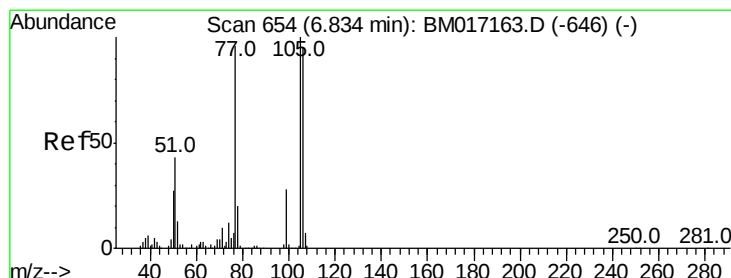
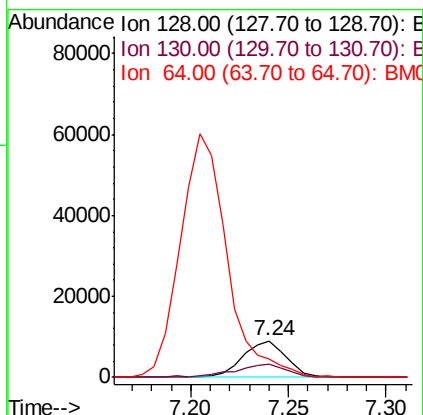
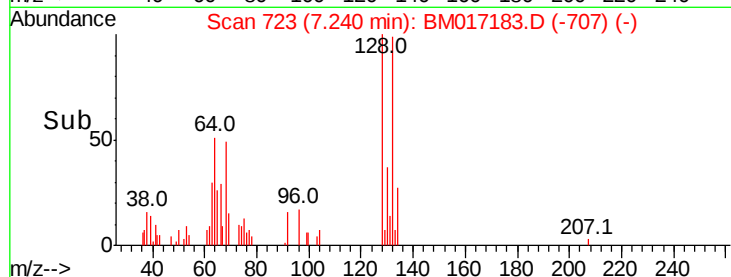
64 50.6 24.1 64.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BM



#9

Benzaldehyde

Concen: 1.428 ng

RT: 6.83 min Scan# 654

Delta R.T. 0.00 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

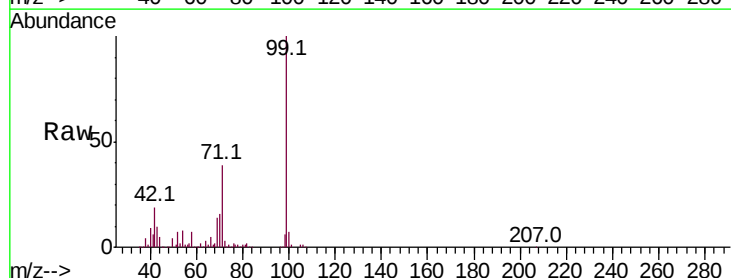
Tgt Ion: 77 Resp: 14207

Ion Ratio Lower Upper

77 100

105 74.5 83.9 123.9#

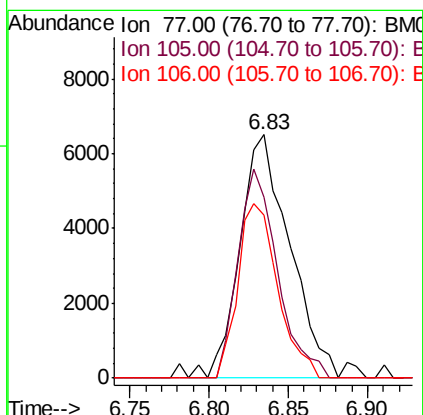
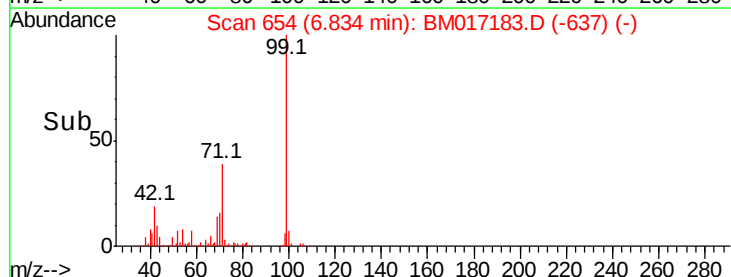
106 66.7 78.2 118.2#

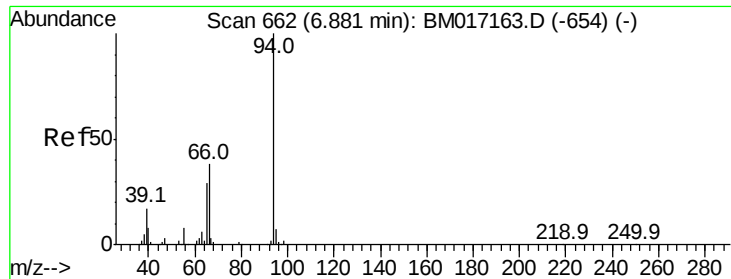


Abundance Ion 77.00 (76.70 to 77.70): BM

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 1.020 ng

RT: 6.88 min Scan# 661

Delta R.T. -0.01 min

Lab File: BM017183.D

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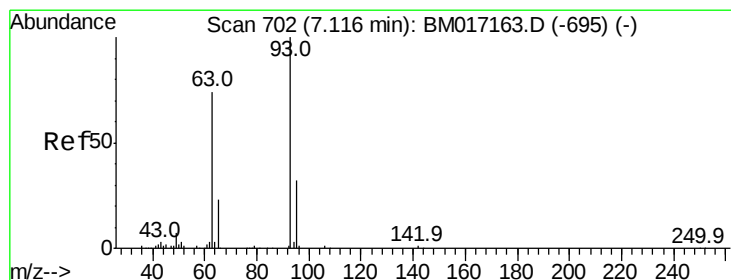
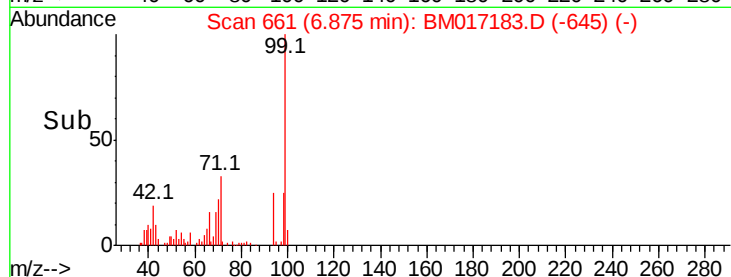
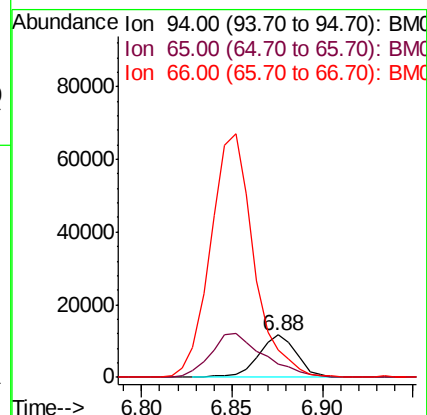
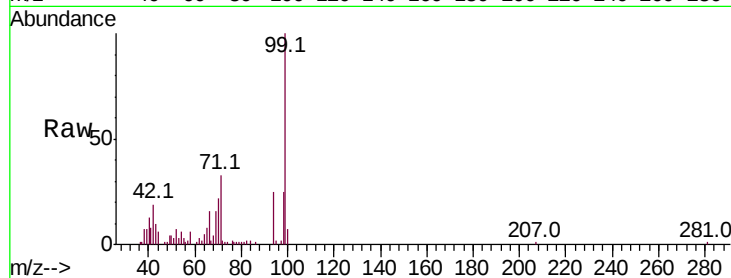
Tot Ion: 94 Resp: 17118

Ion Ratio Lower Upper

94 100

65 32.0 9.4 49.4

66 64.2 19.0 59.0#



#11

bis(2-Chloroethyl)ether

Concen: 0.928 ng

RT: 7.10 min Scan# 700

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

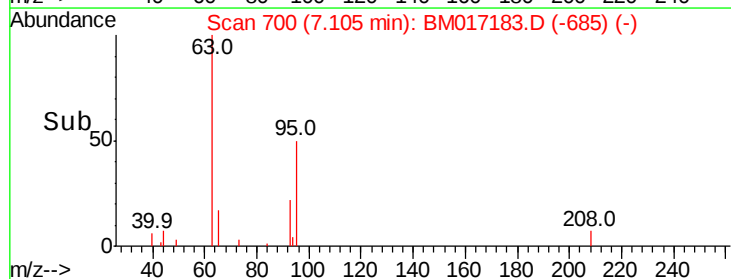
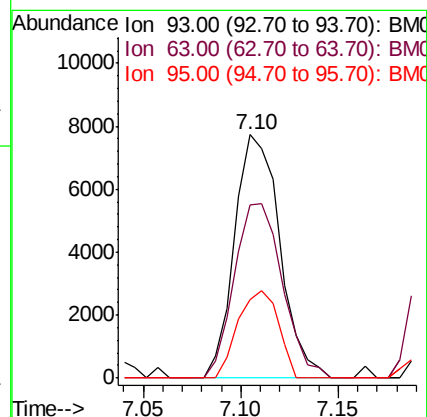
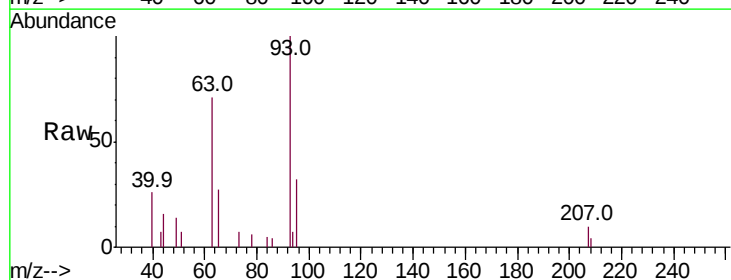
Tgt Ion: 93 Resp: 12425

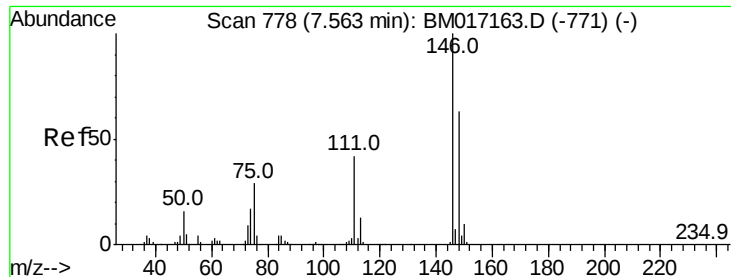
Ion Ratio Lower Upper

93 100

63 70.9 54.0 94.0

95 32.0 11.8 51.8

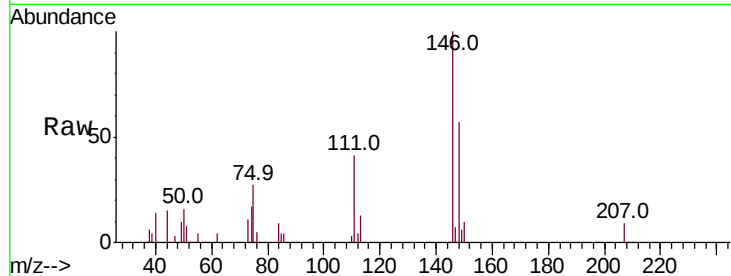




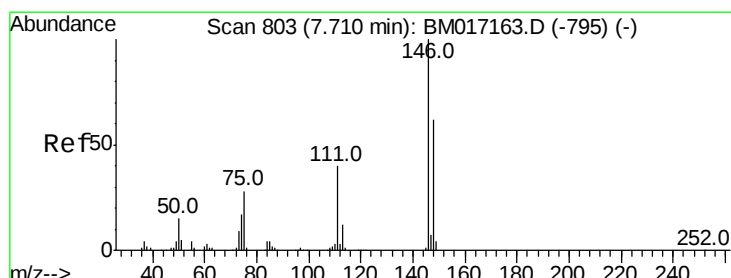
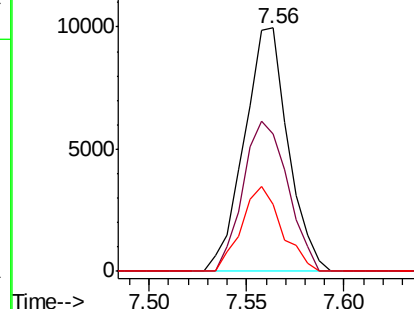
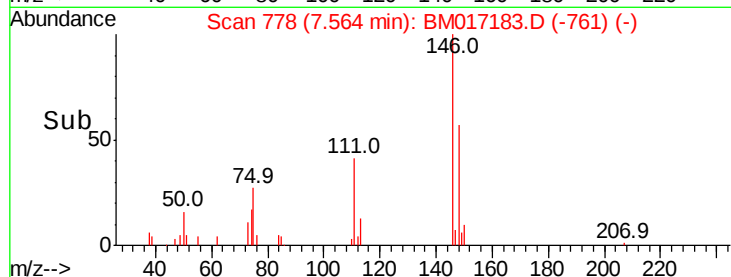
#12
 1,3-Dichlorobenzene
 Concen: 1.006 ng
 RT: 7.56 min Scan# 778
 Delta R.T. 0.00 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

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Tot Ion	Ratio	Lower	Upper
146	100		
148	56.6	50.2	75.4
75	27.4	23.3	34.9

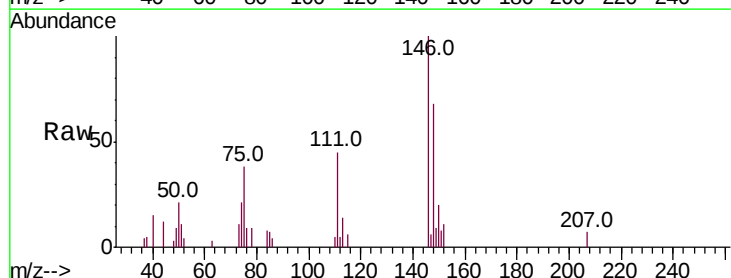


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 75.00 (74.70 to 75.70): BMO

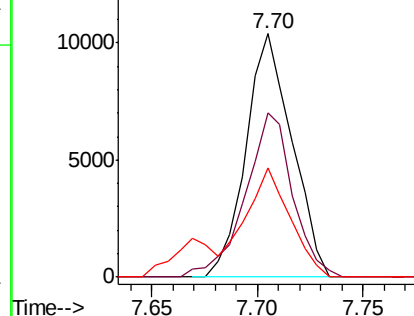
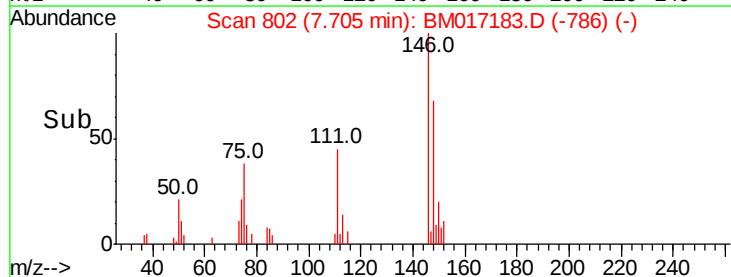


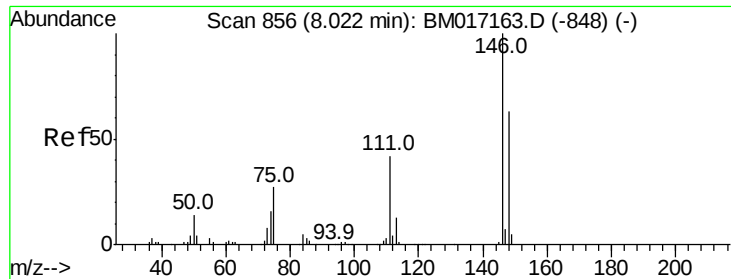
#13
 1,4-Dichlorobenzene
 Concen: 0.997 ng
 RT: 7.70 min Scan# 802
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.7	49.8	74.6
111	45.0	32.1	48.1



Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 0.975 ng

RT: 8.02 min Scan# 855

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

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LOD-MDL-SOIL-01-QT4-2018

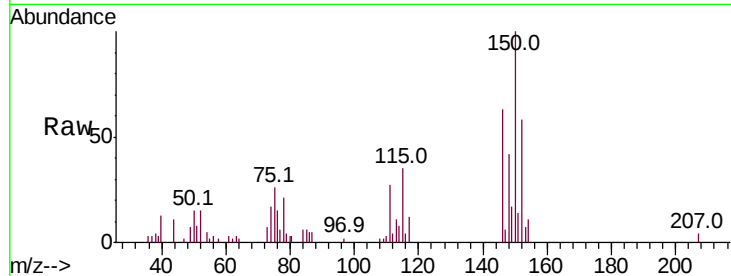
Tot Ion:146 Resp: 14828

Ion Ratio Lower Upper

146 100

148 66.8 50.8 76.2

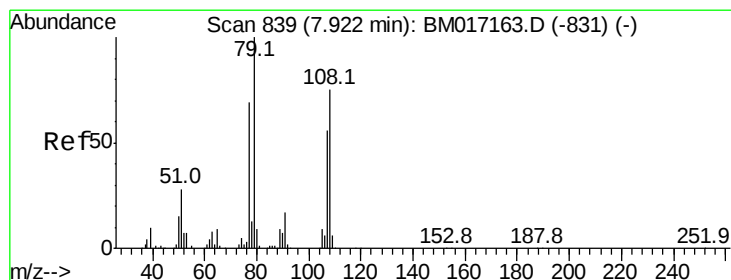
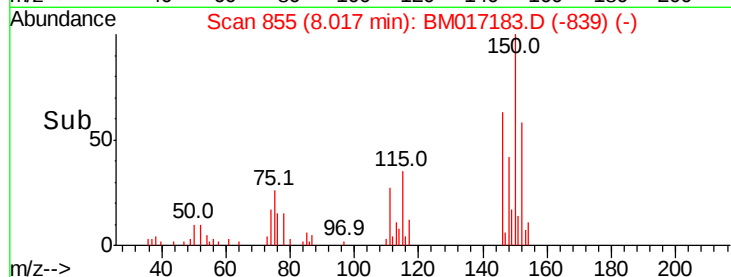
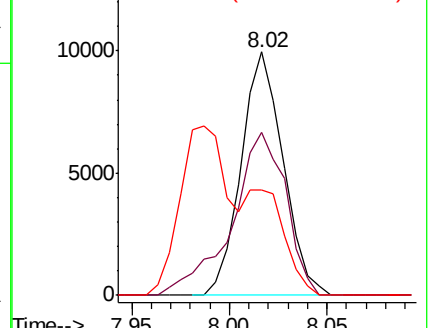
111 43.2 33.8 50.6



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#15

Benzyl Alcohol

Concen: 0.878 ng

RT: 7.92 min Scan# 839

Delta R.T. 0.00 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

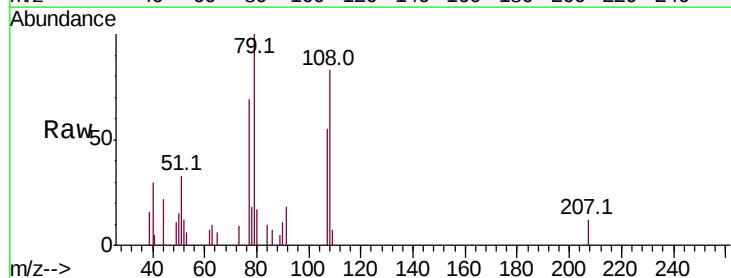
Tgt Ion: 79 Resp: 10015

Ion Ratio Lower Upper

79 100

108 83.0 60.3 90.5

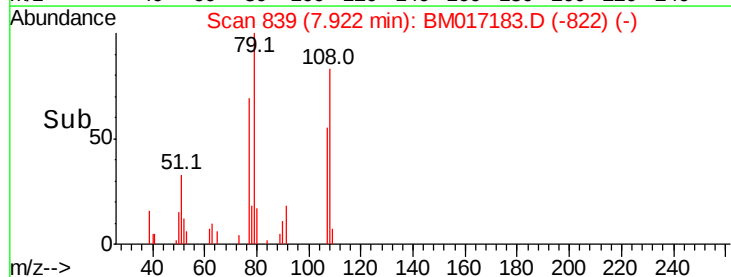
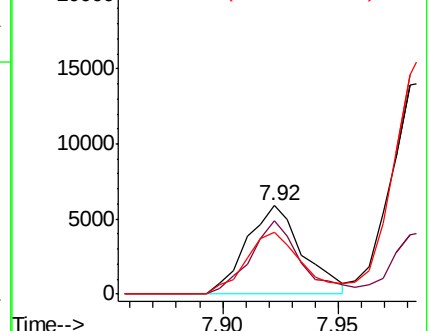
77 69.3 54.8 82.2

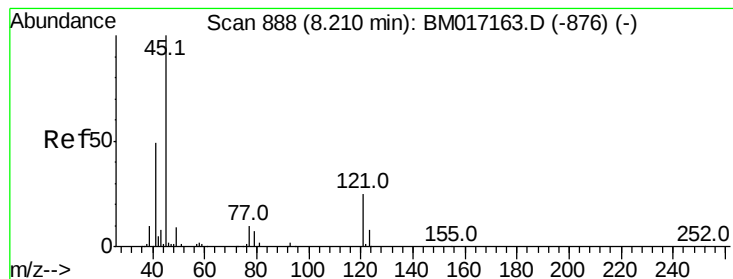


Abundance Ion 79.00 (78.70 to 79.70): BM0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BM0





#16

2,2'-oxvbis(1-Chloropropane)

Concen: 0.892 ng

RT: 8.20 min Scan# 887

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

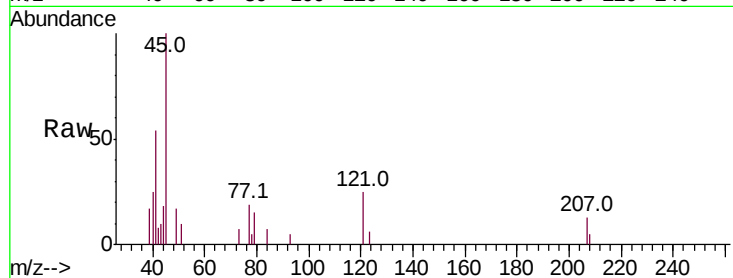
Tot Ion: 45 Resp: 16672

Ion Ratio Lower Upper

45 100

77 18.6 0.0 35.5

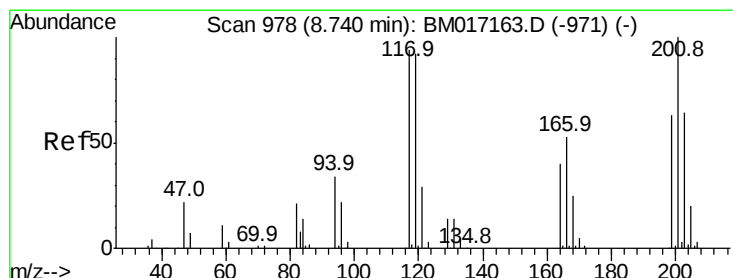
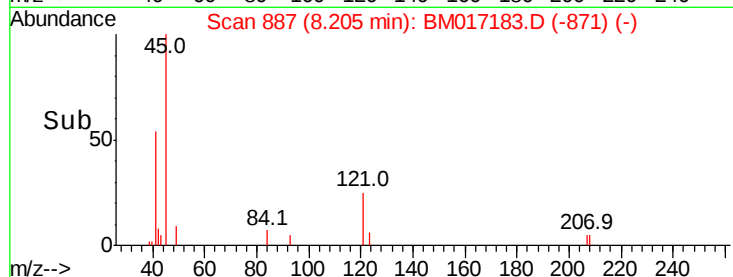
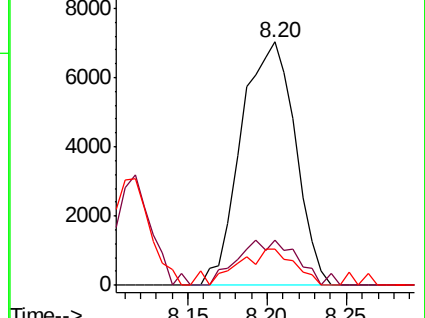
79 15.0 0.0 32.1



Abundance Ion 45.00 (44.70 to 45.70): BM017163.D (-876) (-)

Ion 77.00 (76.70 to 77.70): BM017163.D (-876) (-)

Ion 79.00 (78.70 to 79.70): BM017163.D (-876) (-)



#18

Hexachloroethane

Concen: 0.987 ng

RT: 8.73 min Scan# 977

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

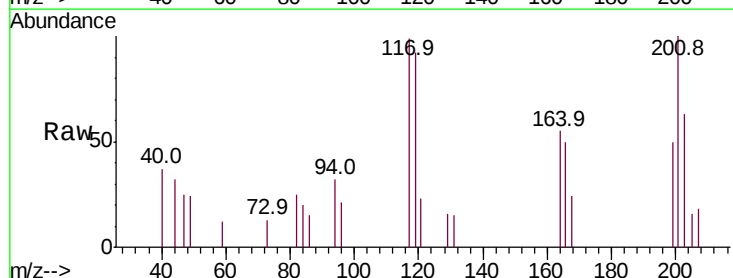
Tgt Ion: 117 Resp: 5333

Ion Ratio Lower Upper

117 100

119 93.4 78.2 117.2

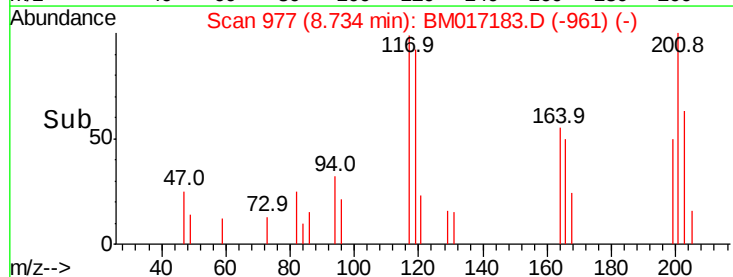
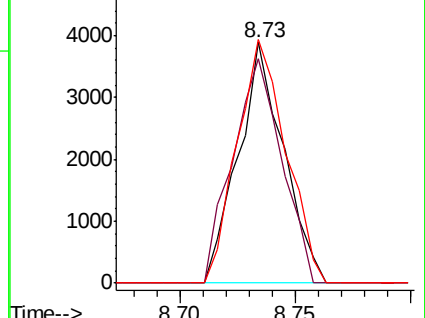
201 101.2 85.3 127.9

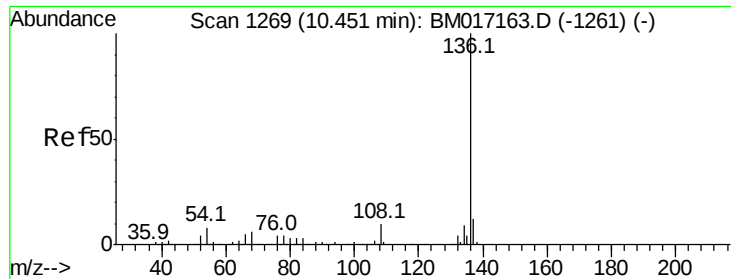


Abundance Ion 117.00 (116.70 to 117.70): BM017163.D (-971) (-)

Ion 119.00 (118.70 to 119.70): BM017163.D (-971) (-)

Ion 201.00 (200.70 to 201.70): BM017163.D (-971) (-)

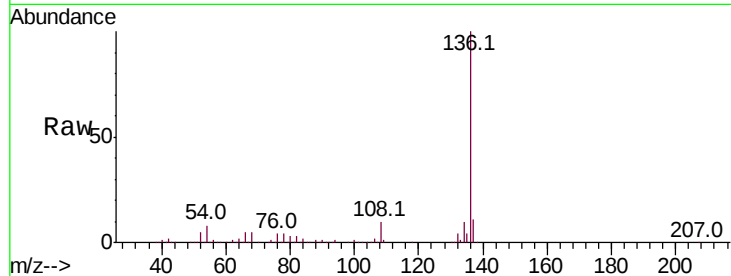




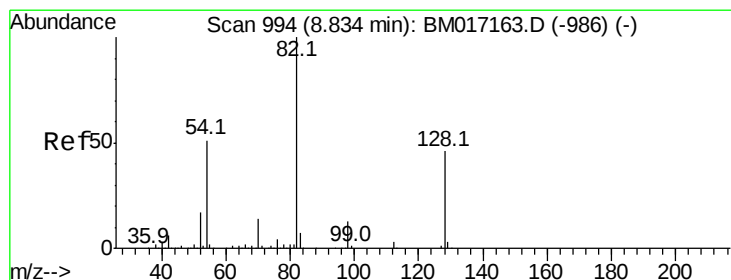
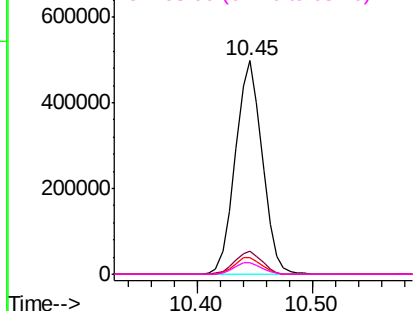
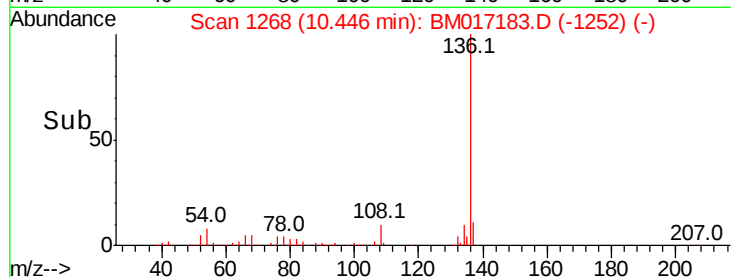
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.45 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tot Ion:136	Resp:	804139	
Ion Ratio	Lower	Upper	
136 100			
137 10.5	9.2	13.8	
54 7.9	6.7	10.1	
68 5.2	4.7	7.1	

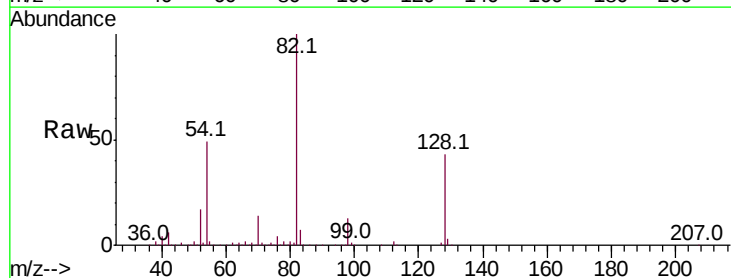


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM
Ion 68.00 (67.70 to 68.70): BM

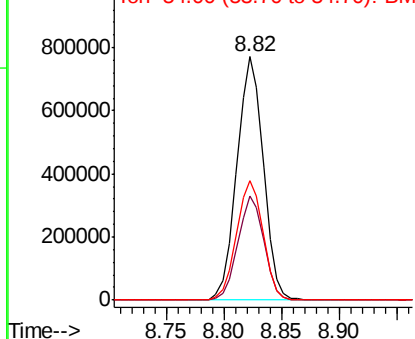
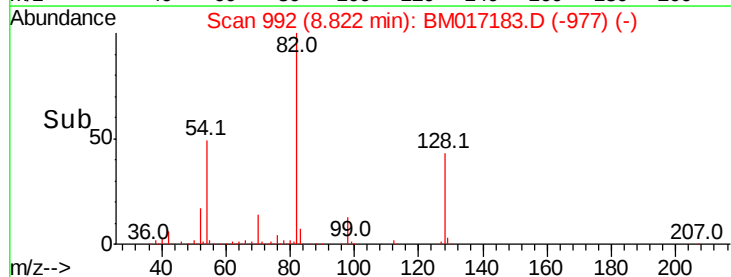


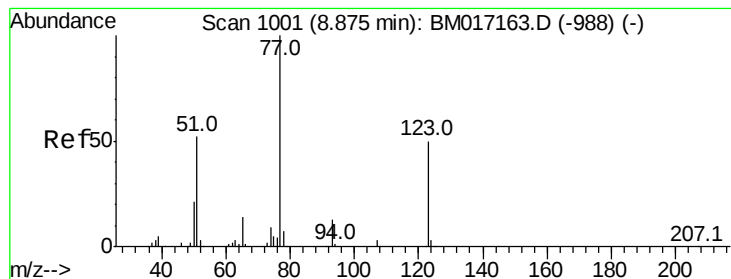
#23
Nitrobenzene-d5
Concen: 88.959 ng
RT: 8.82 min Scan# 992
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt	Ion: 82	Resp: 1223133	
Ion	Ratio	Lower	Upper
82	100		
128	42.6	37.0	55.6
54	49.0	40.7	61.1



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





#24

Nitrobenzene

Concen: 1.174 ng

RT: 8.86 min Scan# 999

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

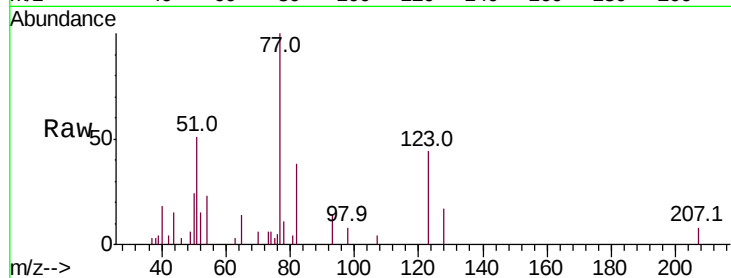
Tot Ion: 77 Resp: 17075

Ion Ratio Lower Upper

77 100

123 44.1 40.2 60.4

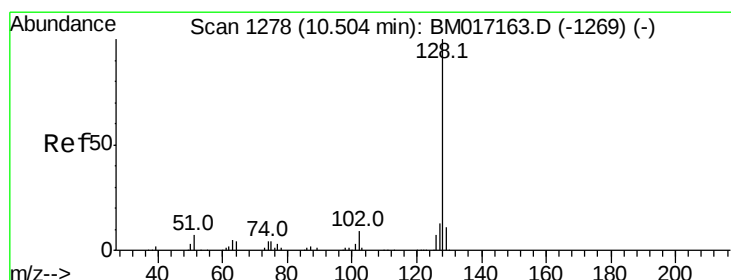
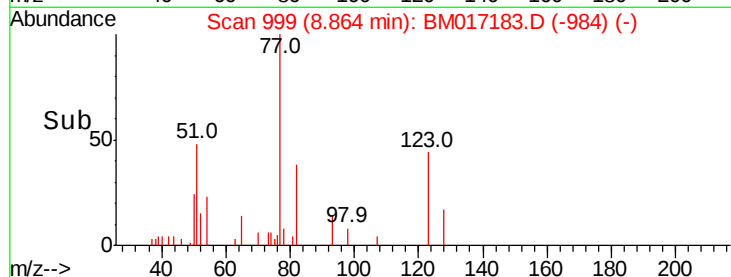
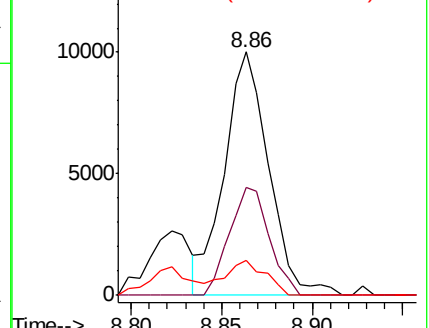
65 14.4 11.4 17.0



Abundance Ion 77.00 (76.70 to 77.70): BM017163.D (-988) (-)

Ion 123.00 (122.70 to 123.70): BM017163.D (-988) (-)

Ion 65.00 (64.70 to 65.70): BM017163.D (-988) (-)



#31

Naphthalene

Concen: 1.039 ng

RT: 10.50 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

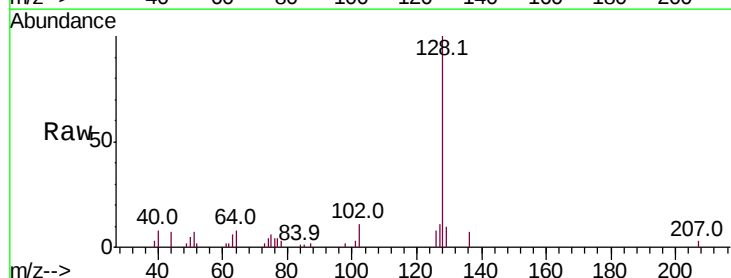
Tgt Ion: 128 Resp: 40934

Ion Ratio Lower Upper

128 100

129 10.4 8.5 12.7

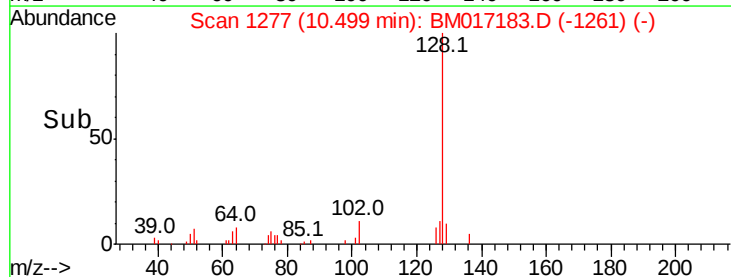
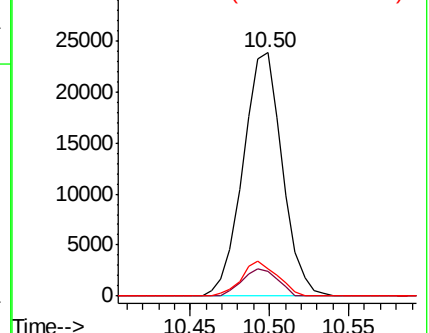
127 11.2 10.3 15.5

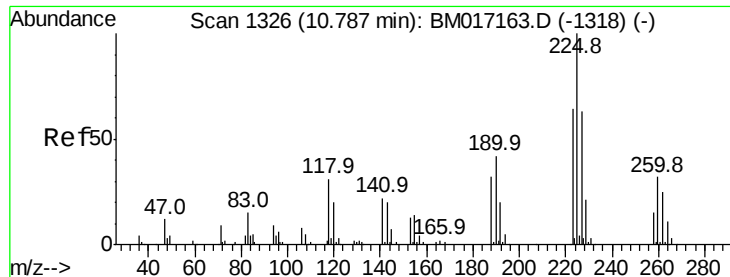


Abundance Ion 128.00 (127.70 to 128.70): BM017163.D (-1269) (-)

Ion 129.00 (128.70 to 129.70): BM017163.D (-1269) (-)

Ion 127.00 (126.70 to 127.70): BM017163.D (-1269) (-)

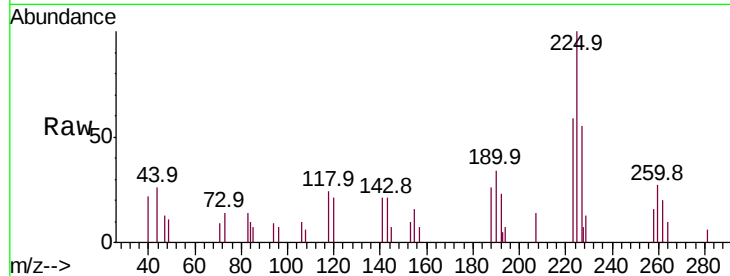




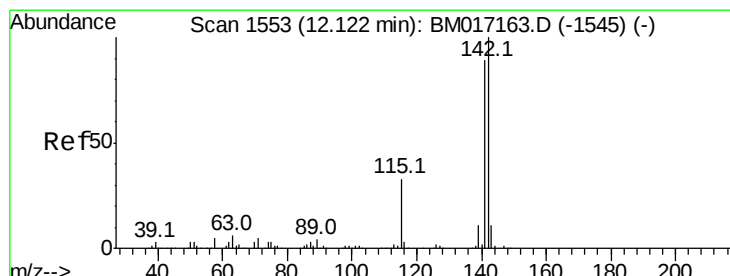
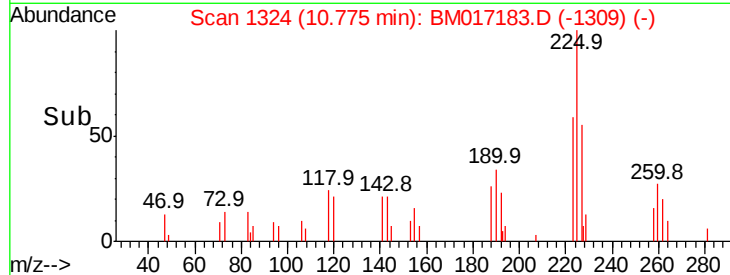
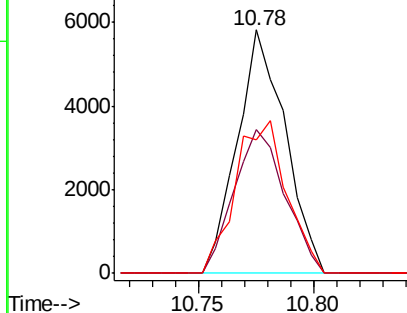
#34
Hexachlorobutadiene
Concen: 0.950 ng
RT: 10.78 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
225	100		
223	59.3	51.0	76.6
227	55.1	50.8	76.2

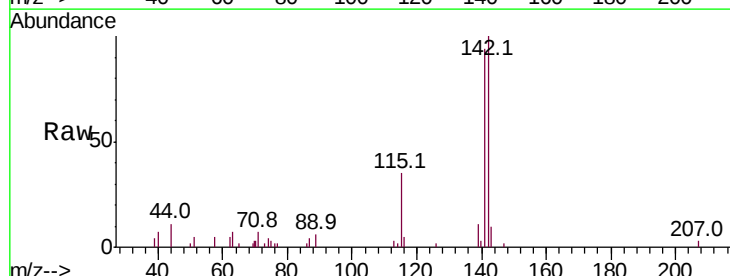


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

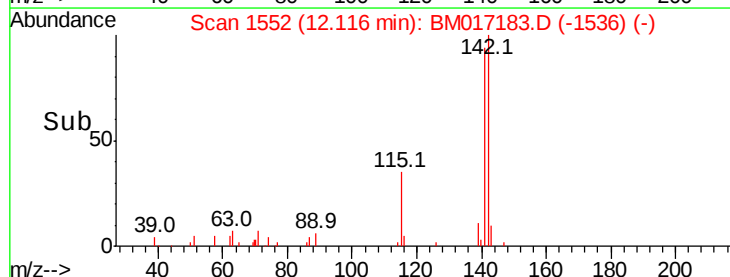
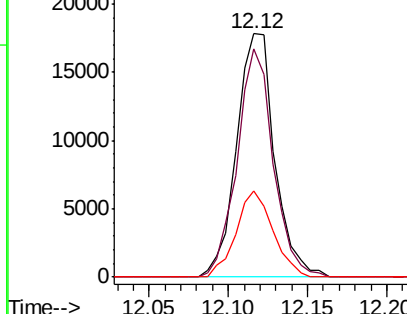


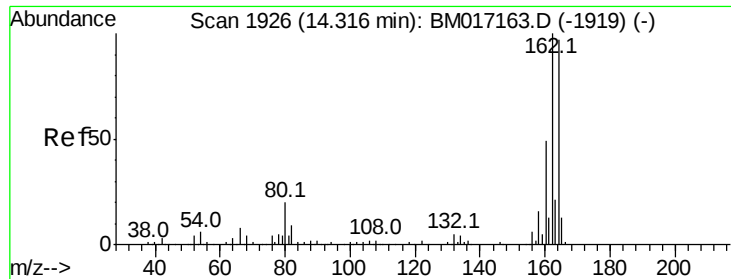
#37
2-Methylnaphthalene
Concen: 1.104 ng
RT: 12.12 min Scan# 1552
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.8	70.9	106.3
115	35.2	26.4	39.6



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

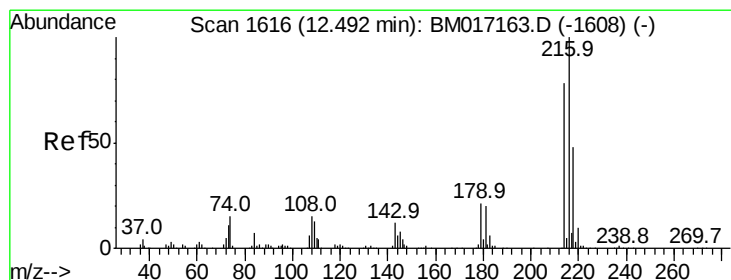
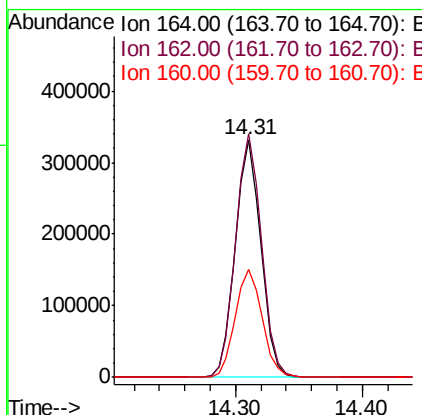
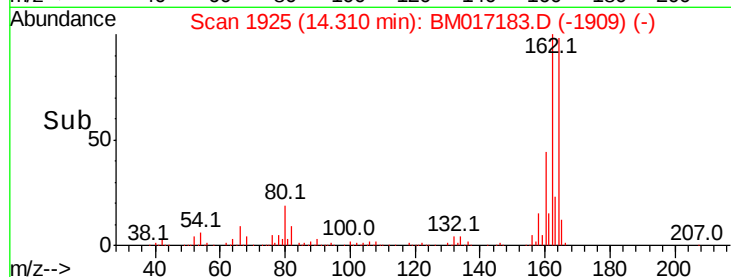
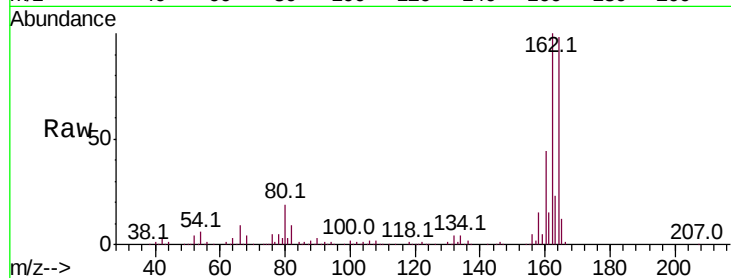




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.31 min Scan# 1925
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

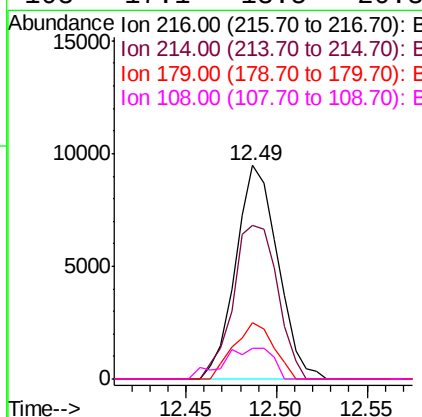
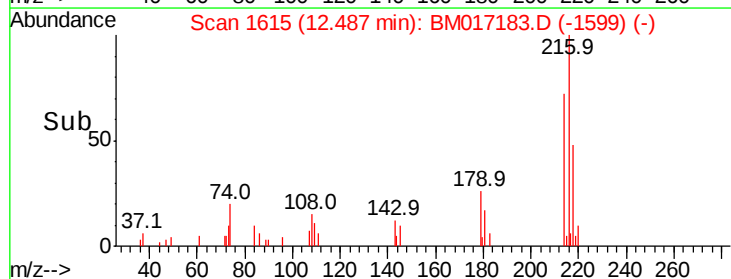
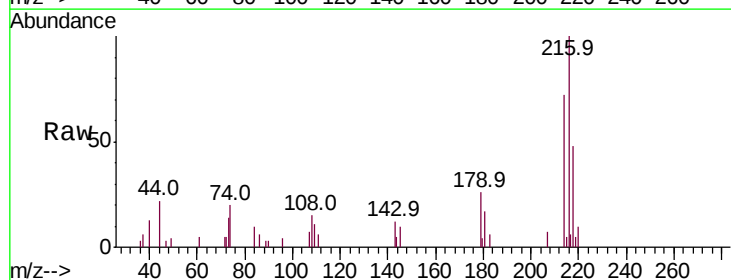
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

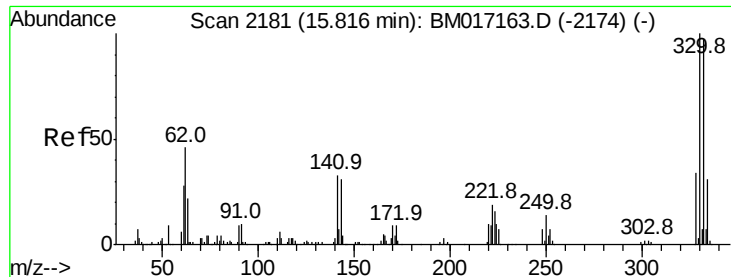
Tot Ion:164 Resp: 462652
Ion Ratio Lower Upper
164 100
162 102.4 82.1 123.1
160 45.2 40.2 60.2



#40
1,2,4,5-Tetrachlorobenzene
Concen: 0.942 ng
RT: 12.49 min Scan# 1615
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion:216 Resp: 15342
Ion Ratio Lower Upper
216 100
214 76.0 62.6 93.8
179 24.6 16.6 24.8
108 17.1 13.5 20.3

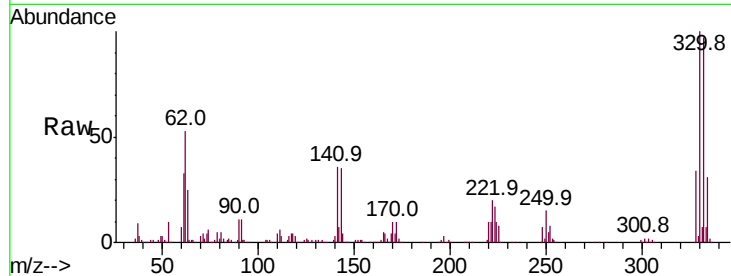




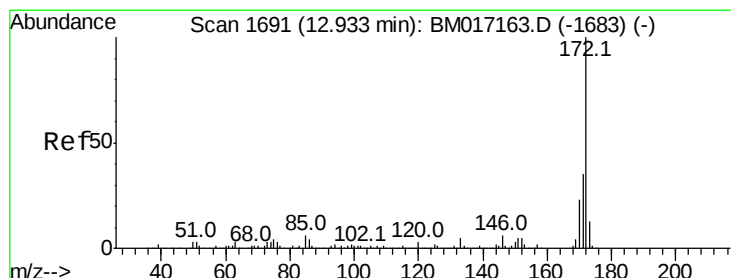
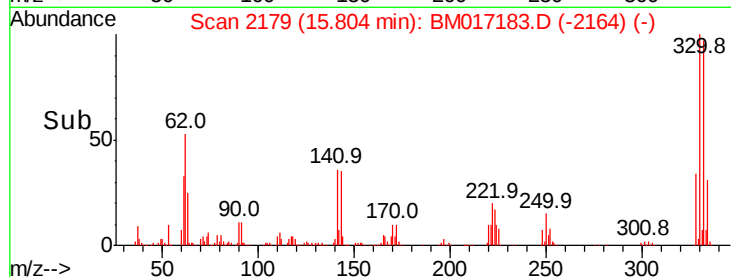
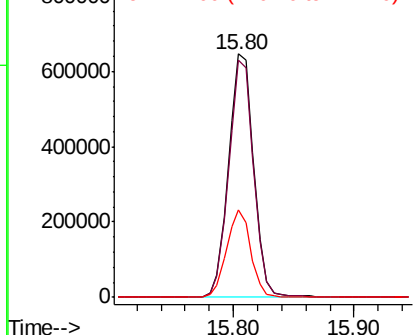
#42
 2,4,6-Tribromophenol
 Concen: 149.455 ng
 RT: 15.80 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tot Ion:330 Resp: 935094
 Ion Ratio Lower Upper
 330 100
 332 96.4 77.3 115.9
 141 34.6 27.4 41.0

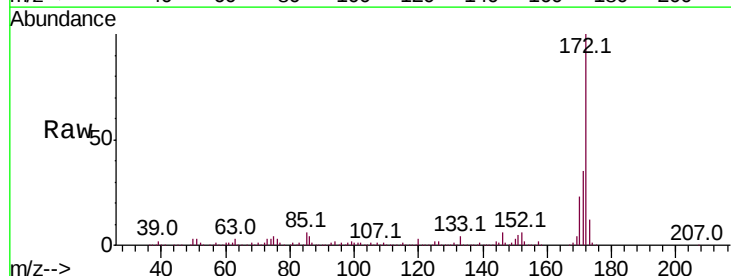


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

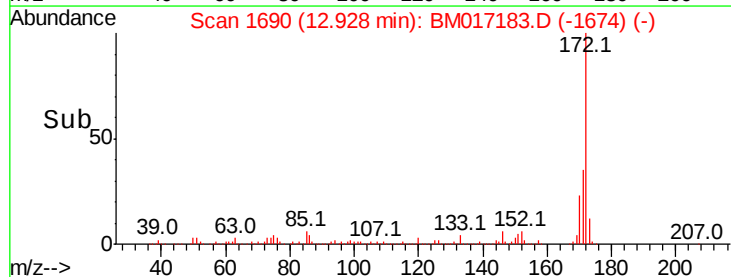
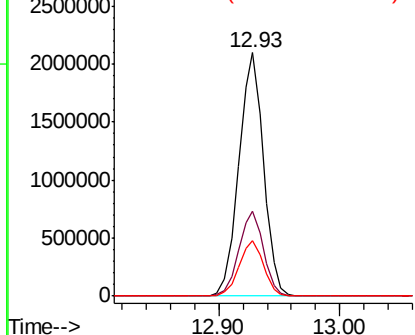


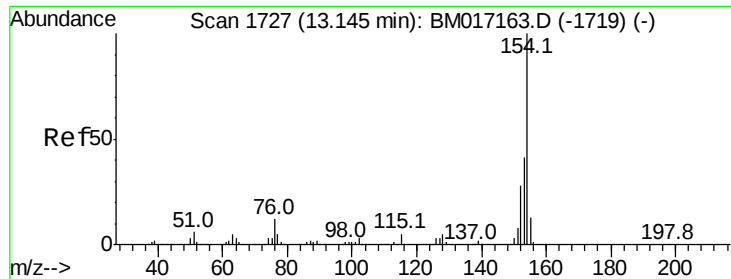
#45
 2-Fluorobiphenyl
 Concen: 85.841 ng
 RT: 12.93 min Scan# 1690
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Tgt Ion:172 Resp: 2984839
 Ion Ratio Lower Upper
 172 100
 171 34.6 28.3 42.5
 170 22.7 18.3 27.5



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

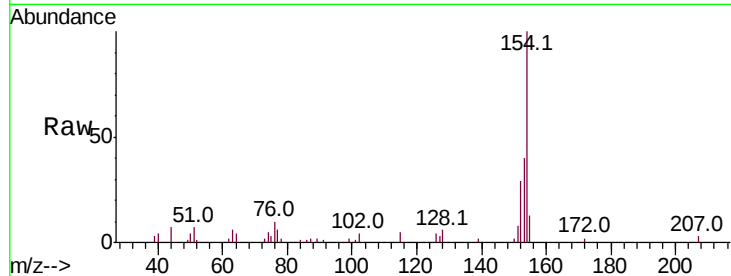




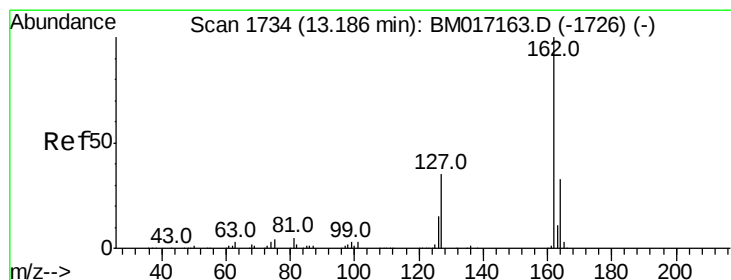
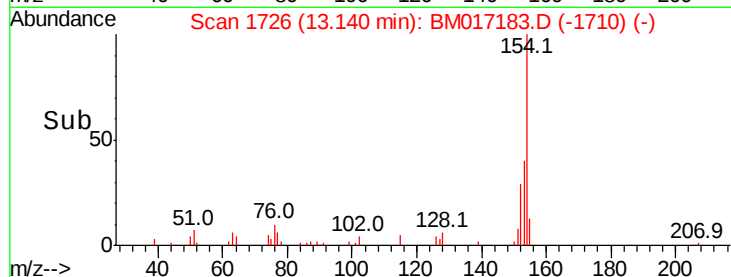
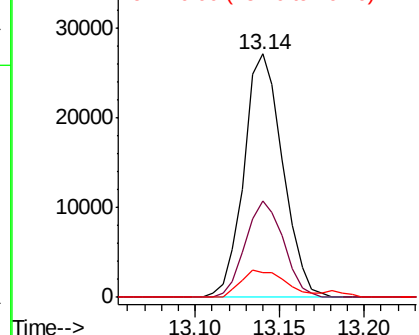
#46
 1,1'-Biphenyl
 Concen: 1.044 ng
 RT: 13.14 min Scan# 1726
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.5	60.5
76	10.3	0.0	31.8

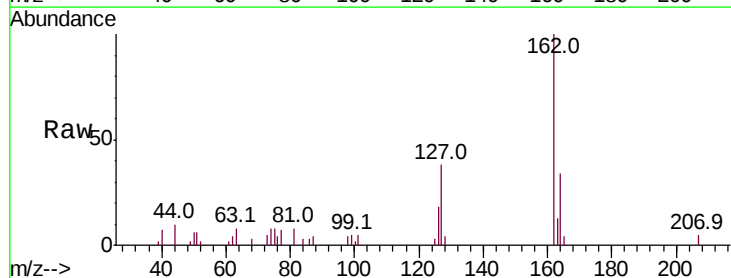


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM

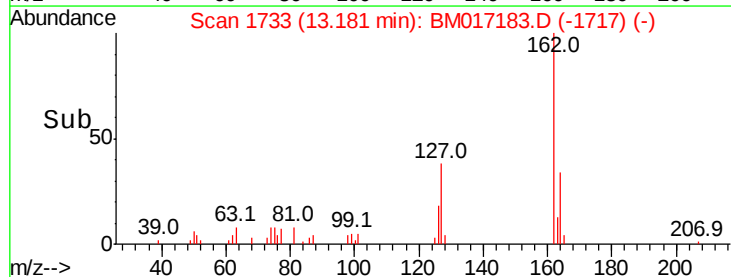
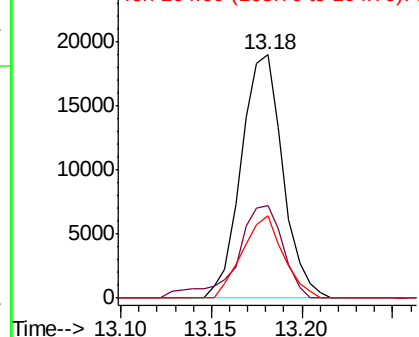


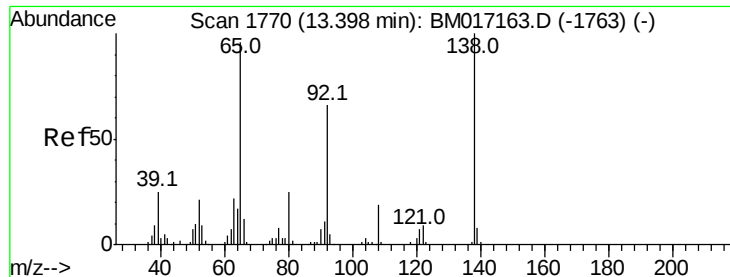
#47
 2-Chloronaphthalene
 Concen: 0.986 ng
 RT: 13.18 min Scan# 1733
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Tgt Ion	Ratio	Lower	Upper
162	100		
127	37.9	31.0	46.4
164	33.8	26.6	39.8



Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E

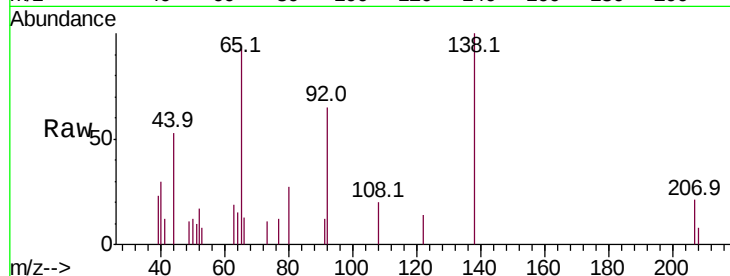




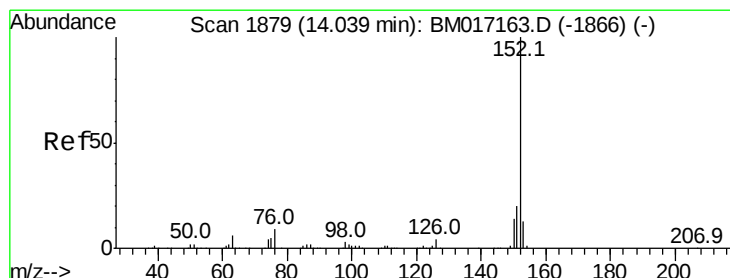
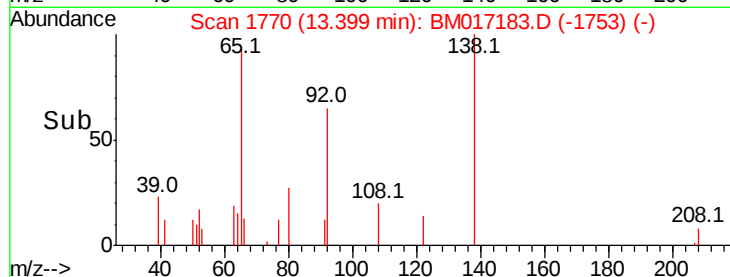
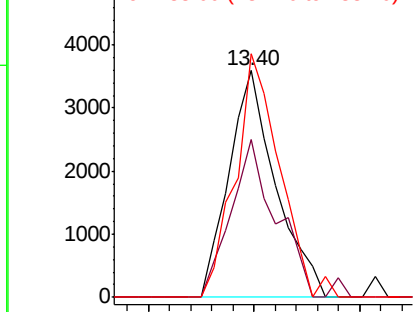
#48
2-Nitroaniline
Concen: 6.250 ng
RT: 13.40 min Scan# 1770
Delta R.T. 0.00 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tot Ion: 65 Resp: 5520
Ion Ratio Lower Upper
65 100
92 69.5 54.9 82.3
138 107.4 83.7 125.5

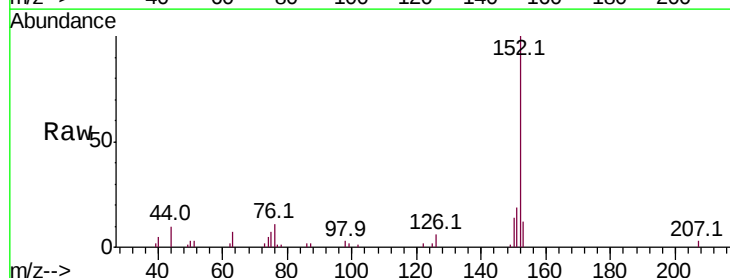


Abundance Ion 65.00 (64.70 to 65.70): BM0
Ion 92.00 (91.70 to 92.70): BM0
Ion 138.00 (137.70 to 138.70): E

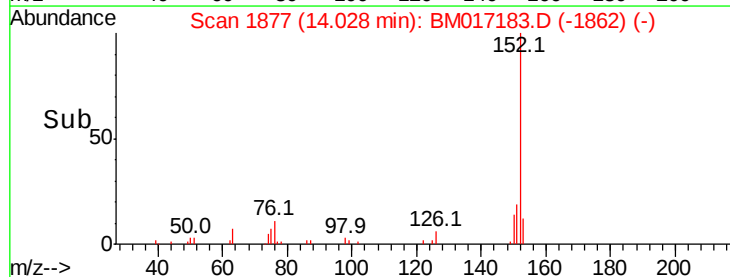
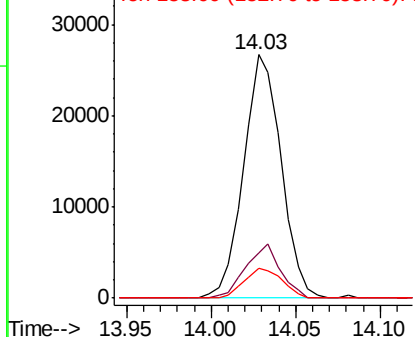


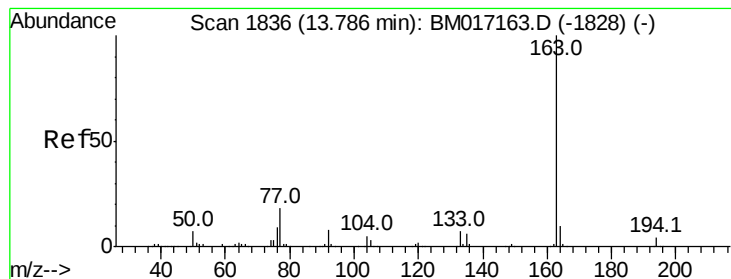
#49
Acenaphthylene
Concen: 0.931 ng
RT: 14.03 min Scan# 1877
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion: 152 Resp: 41338
Ion Ratio Lower Upper
152 100
151 18.7 16.0 24.0
153 12.5 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 1.026 ng

RT: 13.77 min Scan# 1834

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

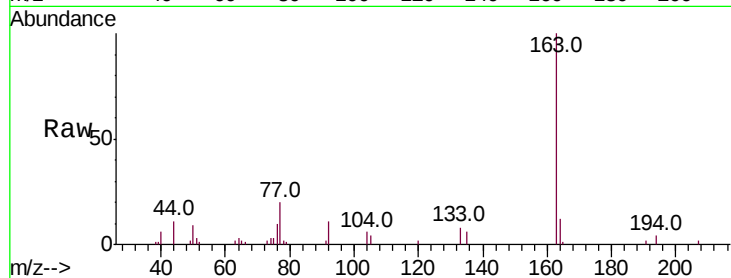
Tot Ion:163 Resp: 36627

Ion Ratio Lower Upper

163 100

194 3.5 3.3 4.9

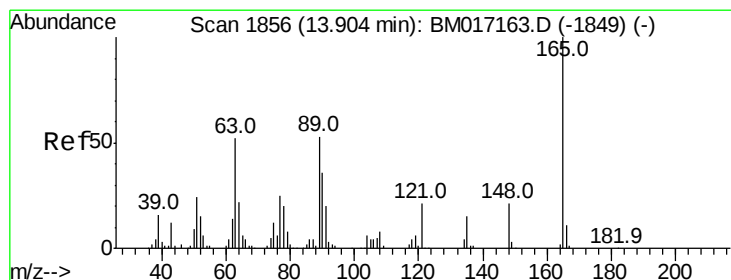
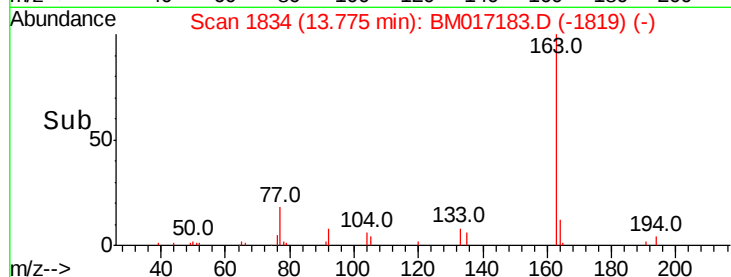
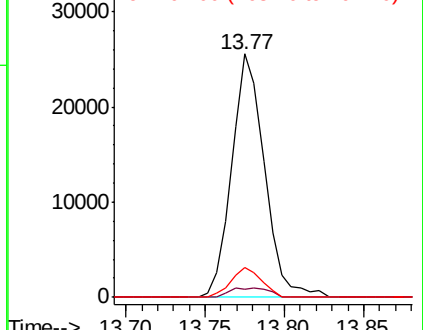
164 12.2 7.8 11.8#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 0.709 ng

RT: 13.90 min Scan# 1855

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

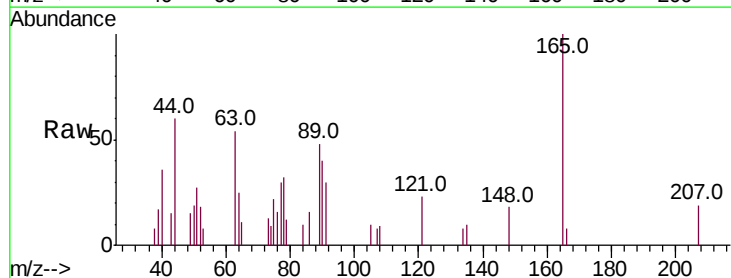
Tgt Ion:165 Resp: 5572

Ion Ratio Lower Upper

165 100

63 54.2 42.7 64.1

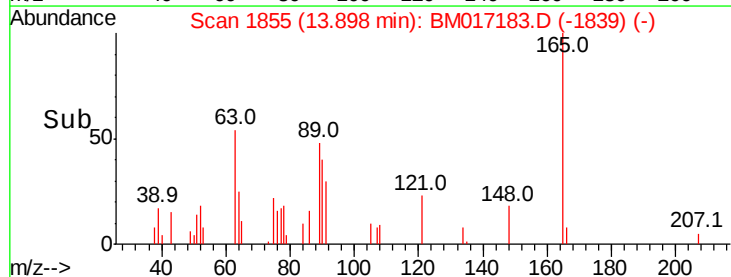
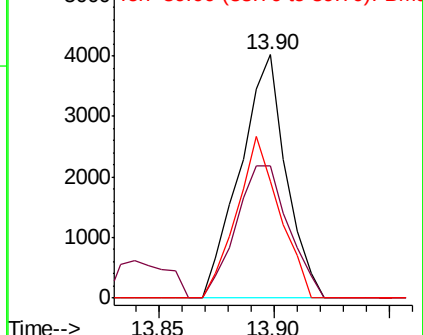
89 47.8 42.1 63.1

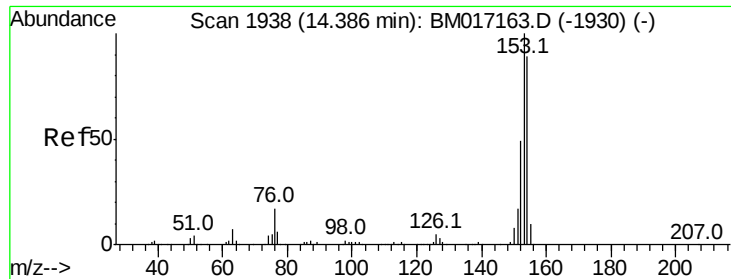


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM

Ion 89.00 (88.70 to 89.70): BM





#52

Acenaphthene

Concen: 1.042 ng

RT: 14.37 min Scan# 1936

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

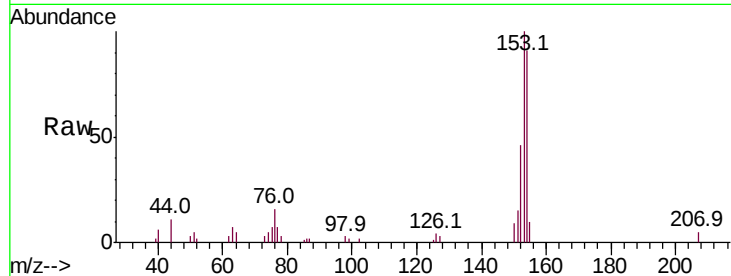
Tot Ion:154 Resp: 29058

Ion Ratio Lower Upper

154 100

153 109.4 90.2 135.2

152 50.0 44.2 66.4

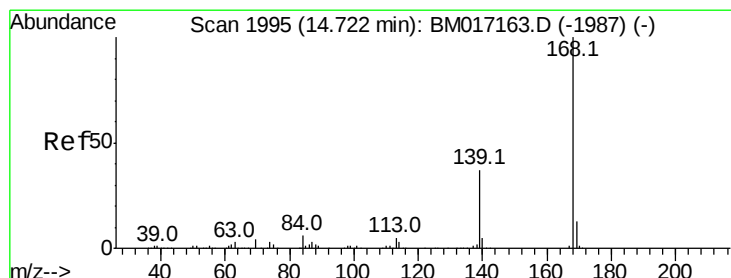
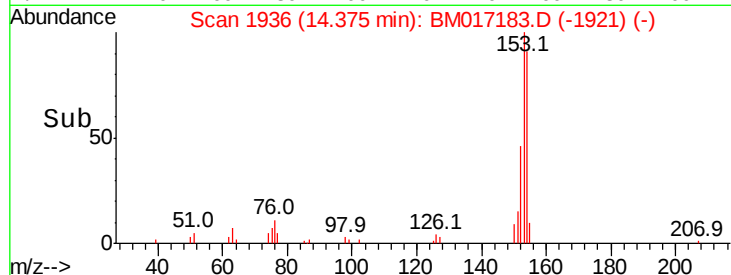
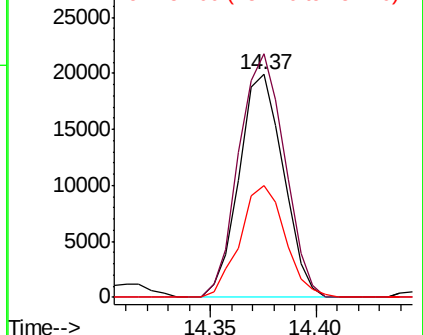


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 1.042 ng

RT: 14.72 min Scan# 1994

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

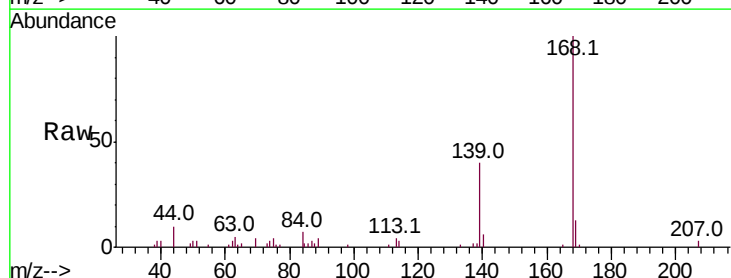
Tgt Ion:168 Resp: 48301

Ion Ratio Lower Upper

168 100

139 39.7 29.3 43.9

169 12.8 10.6 15.8

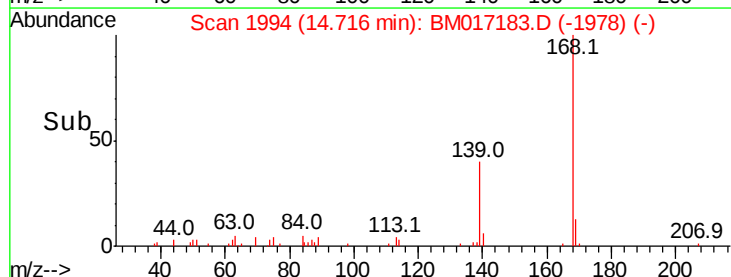
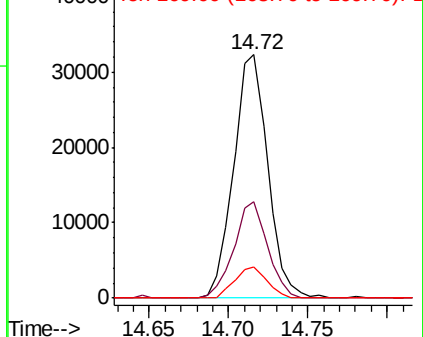


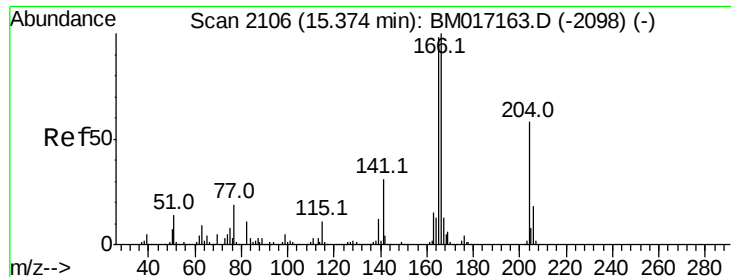
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

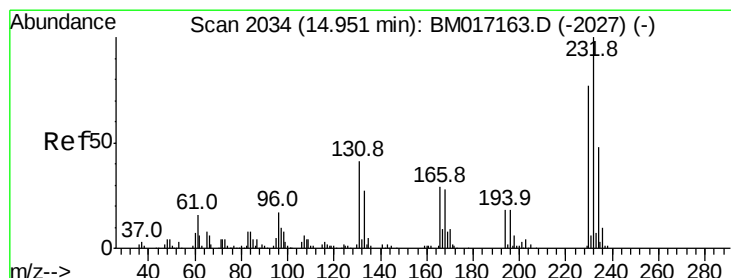
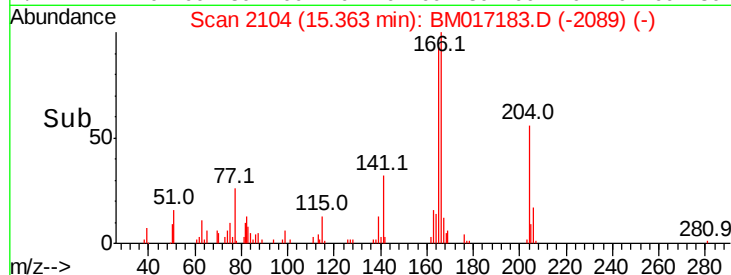
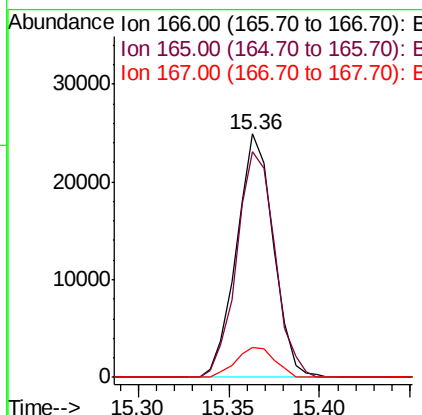
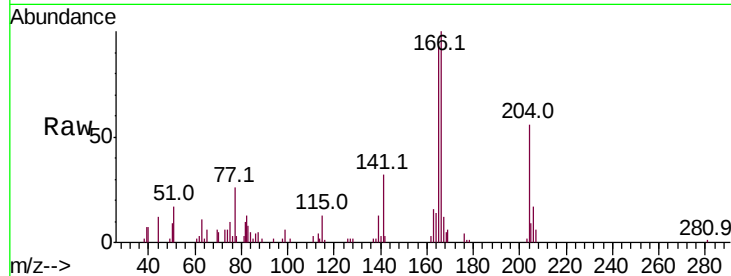




#58
Fluorene
Concen: 1.027 ng
RT: 15.36 min Scan# 2104
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

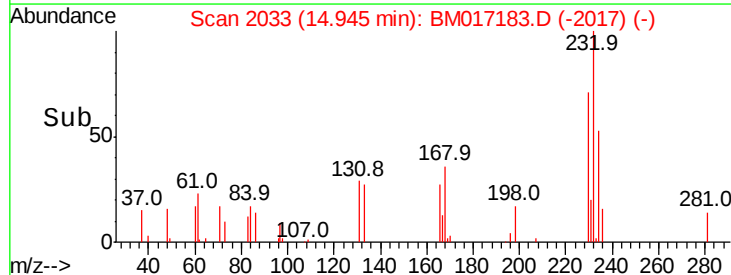
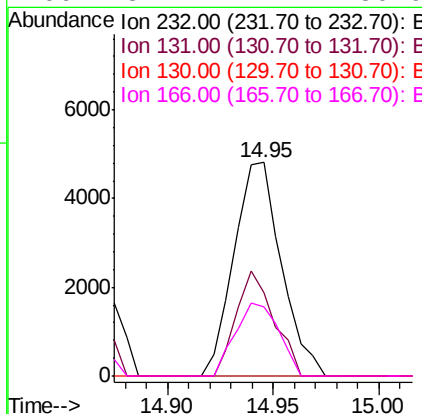
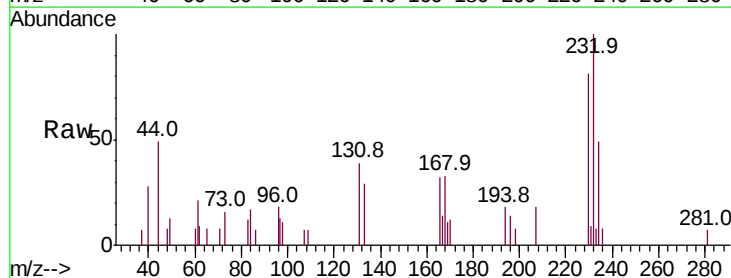
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

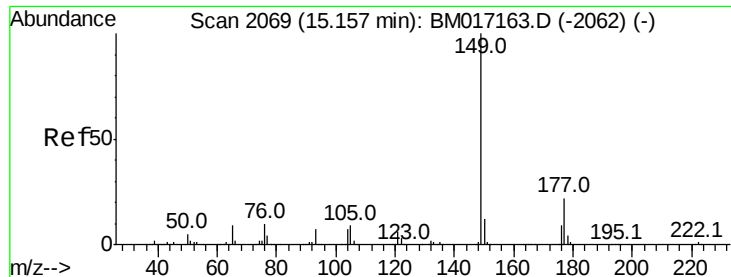
Tot Ion:166 Resp: 35234
Ion Ratio Lower Upper
166 100
165 92.6 78.1 117.1
167 12.1 10.6 16.0



#59
2,3,4,6-Tetrachlorophenol
Concen: 0.810 ng
RT: 14.95 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion:232 Resp: 7493
Ion Ratio Lower Upper
232 100
131 39.1 33.1 49.7
130 0.0 1.7 2.5#
166 31.2 24.4 36.6

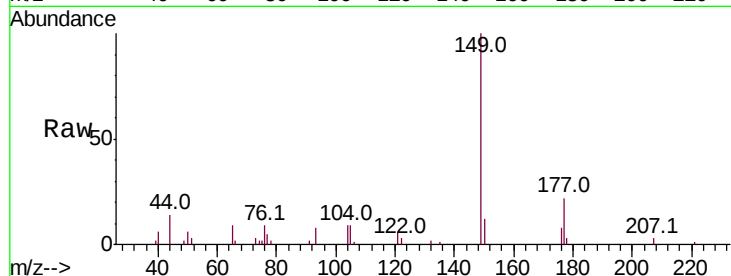




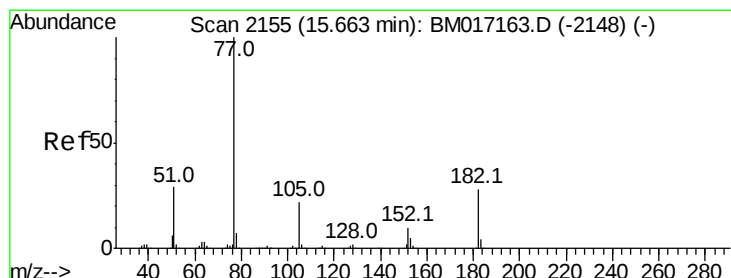
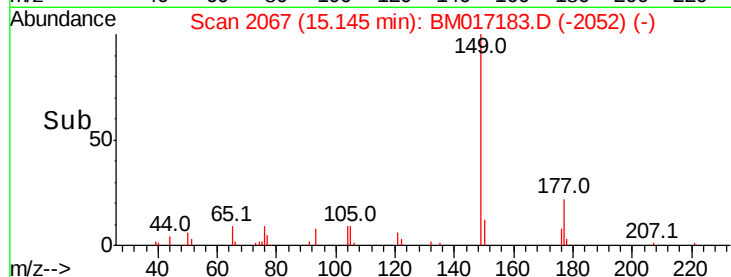
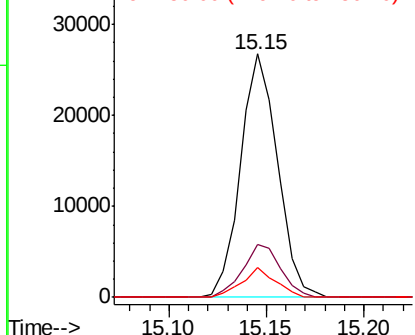
#60
Diethylphthalate
Concen: 0.991 ng
RT: 15.15 min Scan# 2067
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tot Ion:149 Resp: 35094
Ion Ratio Lower Upper
149 100
177 21.6 17.7 26.5
150 12.3 10.0 15.0

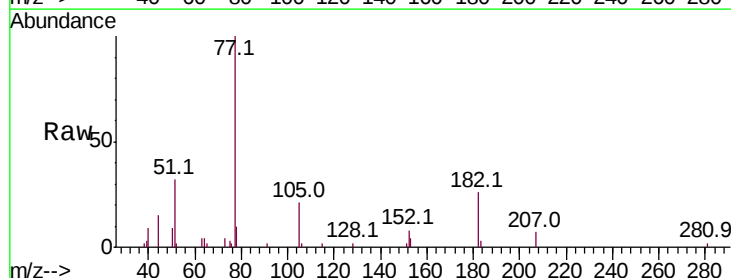


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 177.00 (176.70 to 177.70): E
Ion 150.00 (149.70 to 150.70): E

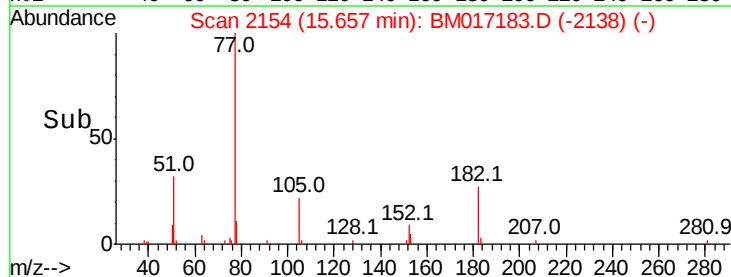
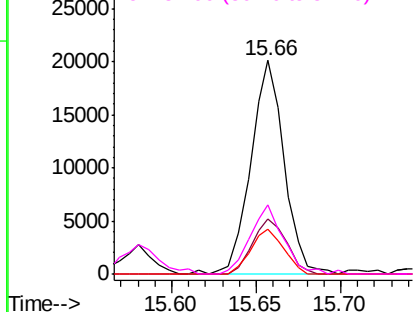


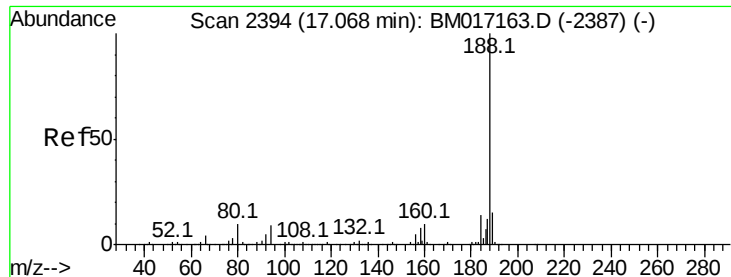
#63
Azobenzene
Concen: 0.801 ng
RT: 15.66 min Scan# 2154
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion: 77 Resp: 27546
Ion Ratio Lower Upper
77 100
182 26.0 8.3 48.3
105 21.2 1.5 41.5
51 32.4 8.8 48.8



Abundance Ion 77.00 (76.70 to 77.70): BM0
Ion 182.00 (181.70 to 182.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 51.00 (50.70 to 51.70): BM0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.06 min Scan# 2392

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

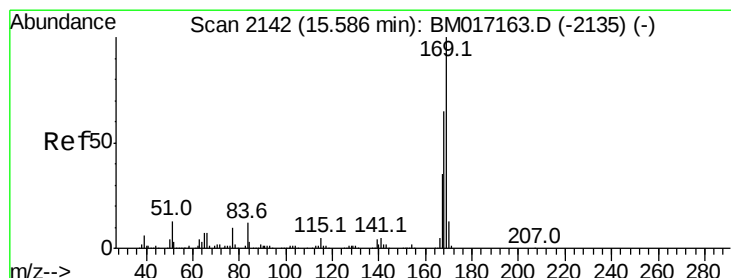
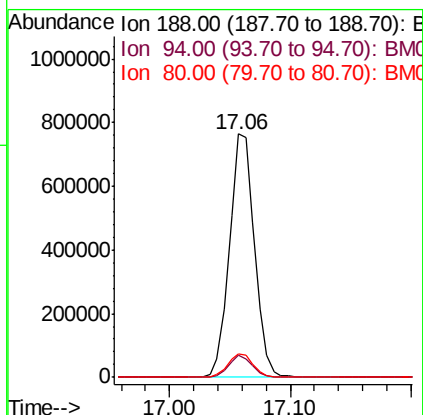
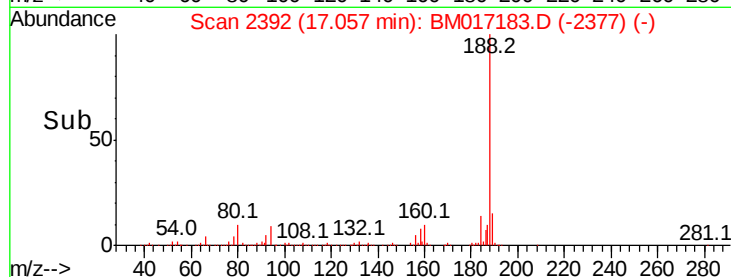
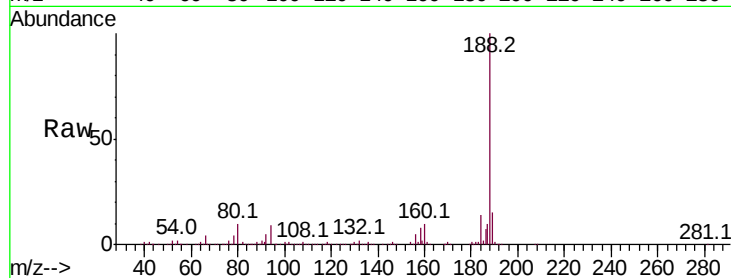
Tot Ion:188 Resp: 1101134

Ion Ratio Lower Upper

188 100

94 8.9 7.0 10.4

80 9.6 7.7 11.5



#66

n-Nitrosodiphenylamine

Concen: 0.849 ng

RT: 15.58 min Scan# 2141

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

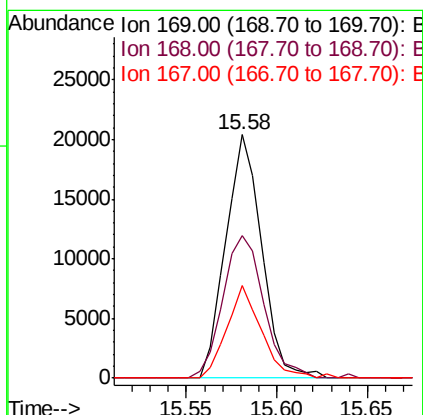
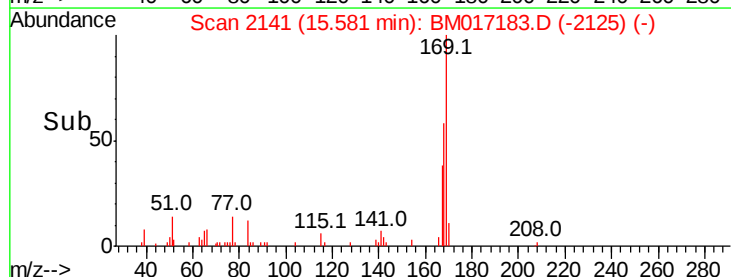
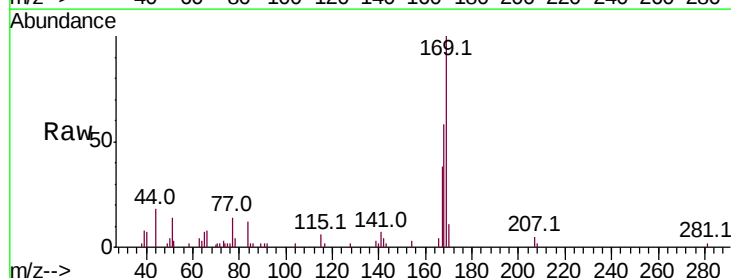
Tgt Ion:169 Resp: 28289

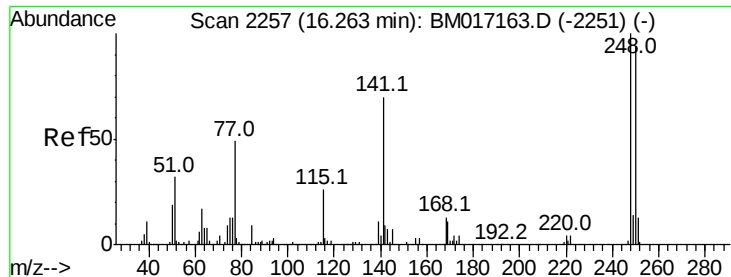
Ion Ratio Lower Upper

169 100

168 58.5 52.2 78.4

167 37.9 28.4 42.6

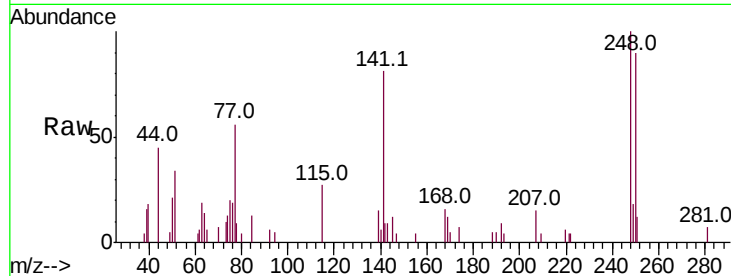




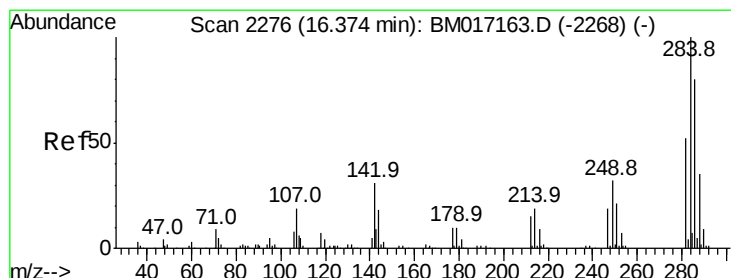
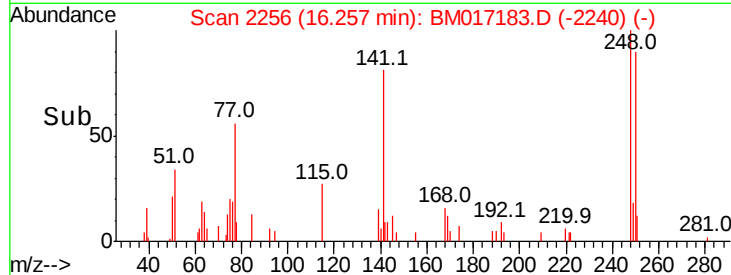
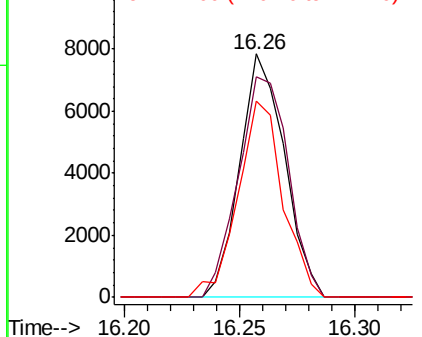
#67
 4-Bromophenyl-phenylether
 Concen: 0.878 ng
 RT: 16.26 min Scan# 2256
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Instrument :
 BNA_M
 ClientSampleID :
 LOD-MDL-SOIL-01-QT4-2018

Tot Ion:248 Resp: 10618
 Ion Ratio Lower Upper
 248 100
 250 90.4 75.1 112.7
 141 80.8 55.6 83.4

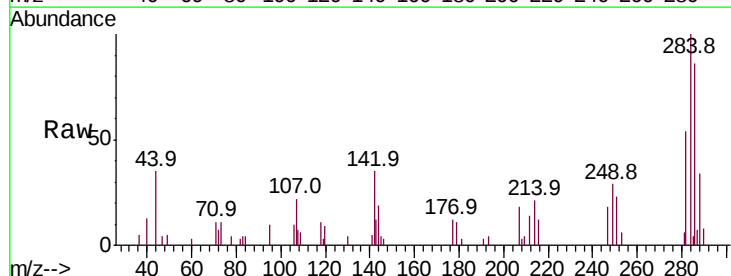


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

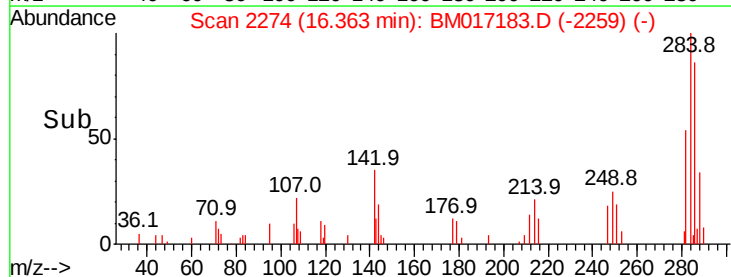
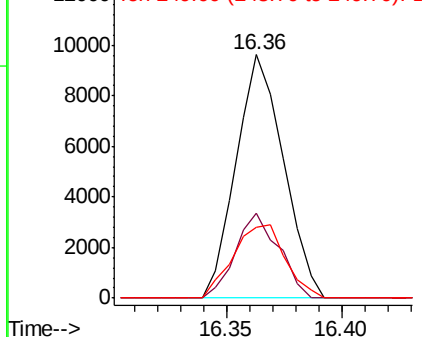


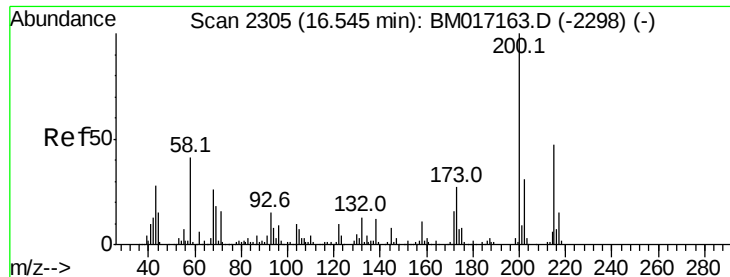
#68
 Hexachlorobenzene
 Concen: 0.978 ng
 RT: 16.36 min Scan# 2274
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Tgt Ion:284 Resp: 13733
 Ion Ratio Lower Upper
 284 100
 142 34.8 25.0 37.6
 249 29.0 25.5 38.3



Abundance Ion 283.80 (283.50 to 284.50): E
 Ion 142.00 (141.70 to 142.70): E
 Ion 249.00 (248.70 to 249.70): E

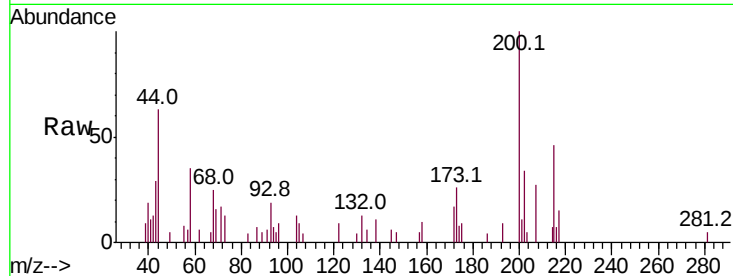




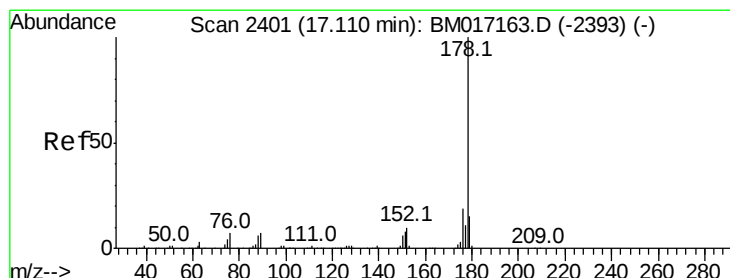
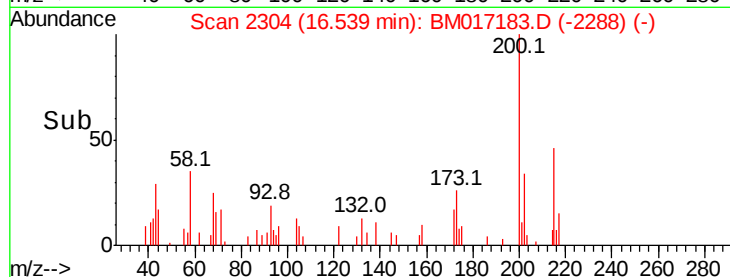
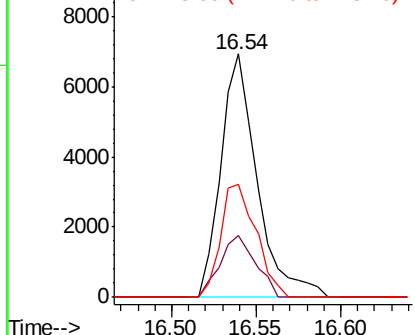
#69
Atrazine
Concen: 0.871 ng
RT: 16.54 min Scan# 2304
Delta R.T. -0.00 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tot Ion:200 Resp: 10380
Ion Ratio Lower Upper
200 100
173 25.6 7.0 47.0
215 46.3 27.3 67.3

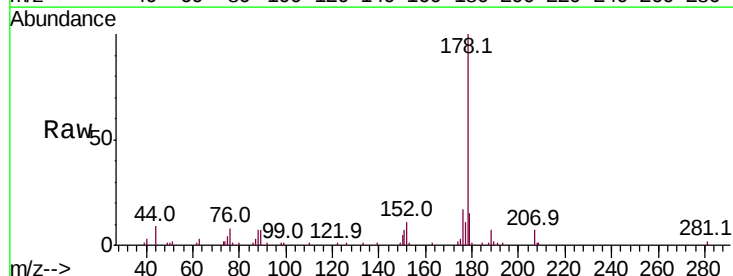


Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

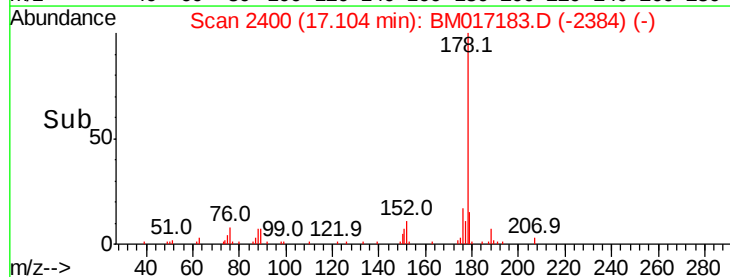
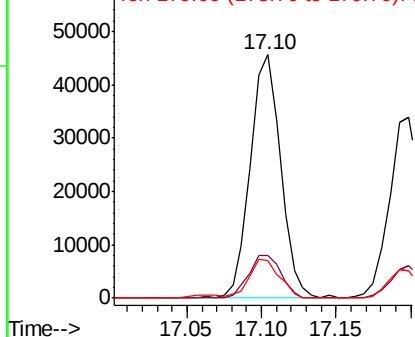


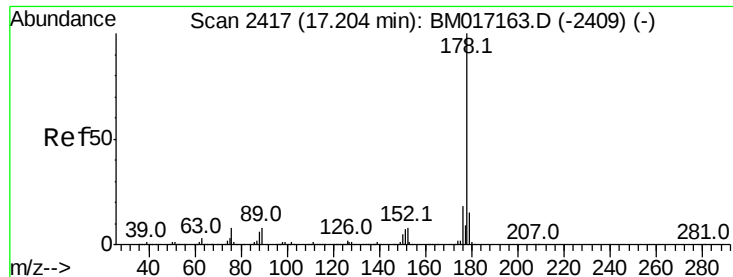
#71
Phenanthrene
Concen: 1.080 ng
RT: 17.10 min Scan# 2400
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion:178 Resp: 64163
Ion Ratio Lower Upper
178 100
176 17.3 15.0 22.6
179 15.2 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 0.975 ng

RT: 17.20 min Scan# 2416

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

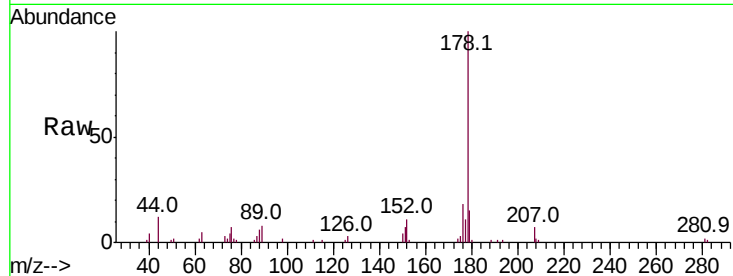
Tot Ion:178 Resp: 55036

Ion Ratio Lower Upper

178 100

176 17.9 14.5 21.7

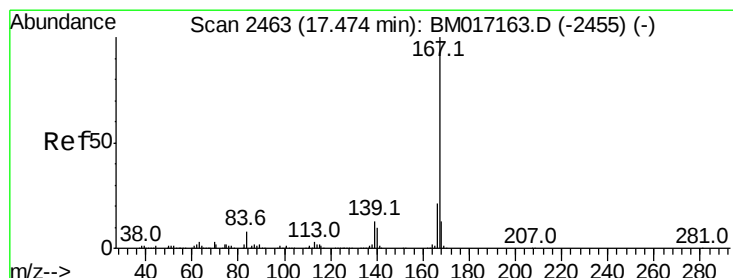
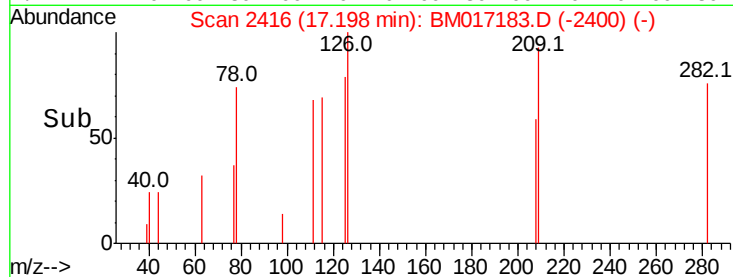
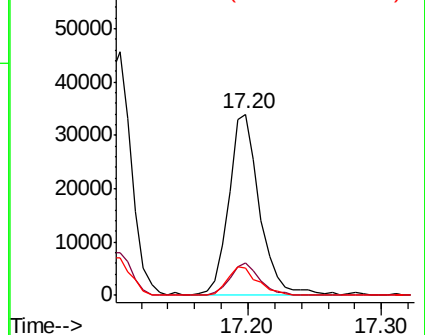
179 15.3 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 0.798 ng

RT: 17.47 min Scan# 2463

Delta R.T. 0.00 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

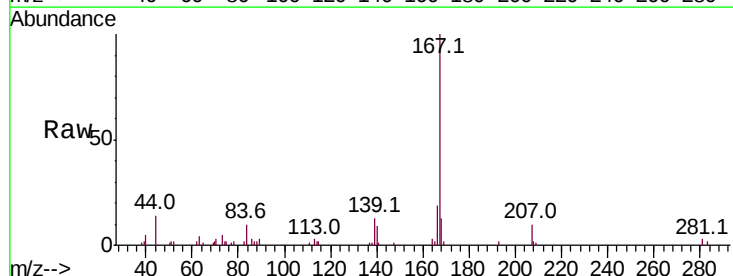
Tgt Ion:167 Resp: 45988

Ion Ratio Lower Upper

167 100

166 19.2 17.1 25.7

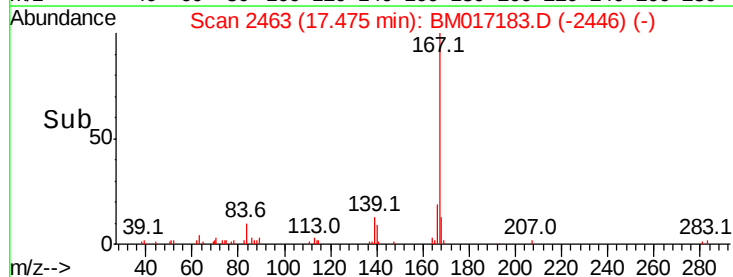
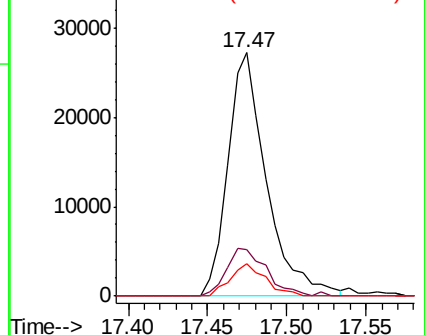
139 13.4 10.1 15.1

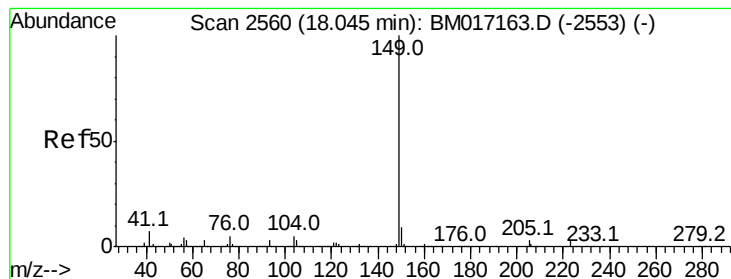


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Di-n-butylphthalate

Concen: 0.736 ng

RT: 18.04 min Scan# 2559

Delta R.T. -0.00 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

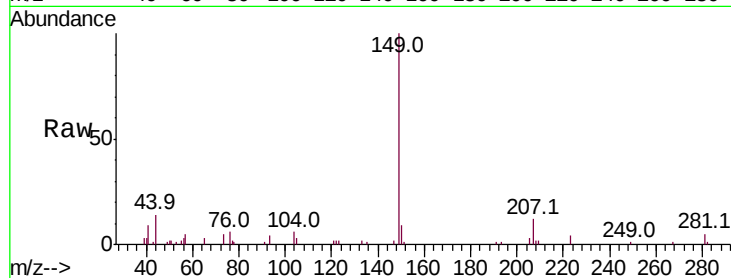
Tot Ion:149 Resp: 44786

Ion Ratio Lower Upper

149 100

150 9.3 7.4 11.0

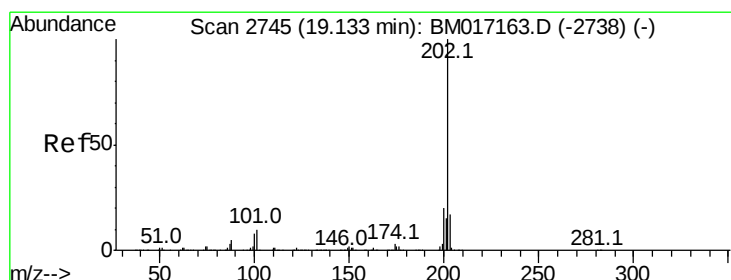
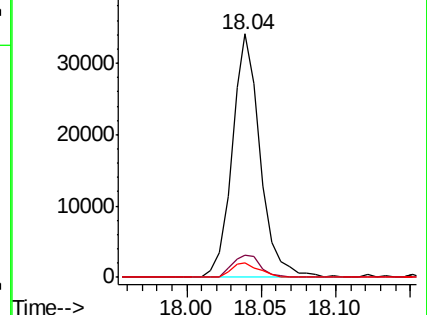
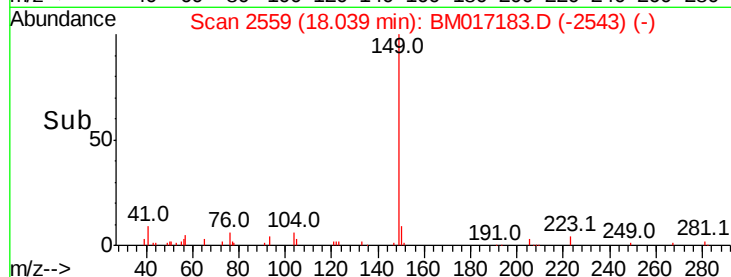
104 5.7 4.3 6.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Fluoranthene

Concen: 1.001 ng

RT: 19.13 min Scan# 2744

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

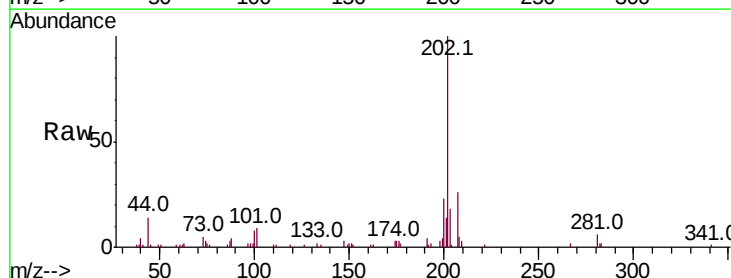
Tgt Ion:202 Resp: 66902

Ion Ratio Lower Upper

202 100

101 8.5 0.0 30.0

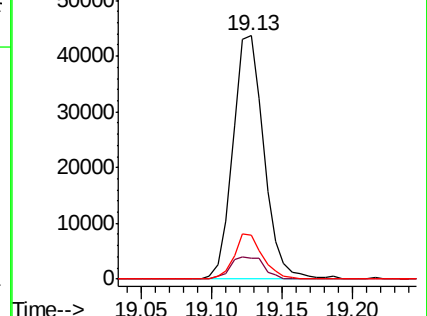
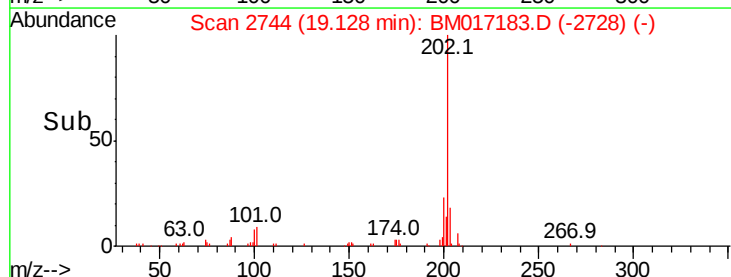
203 17.9 0.0 37.2

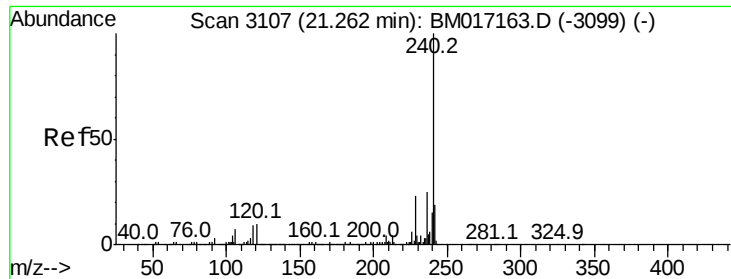


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

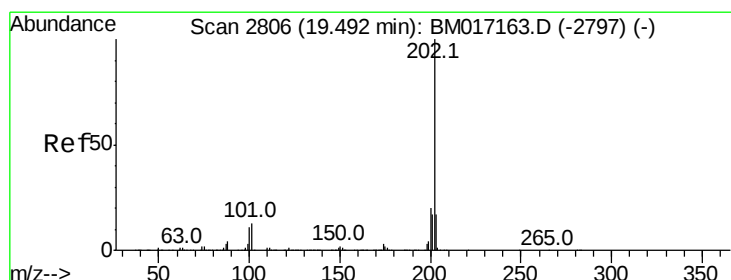
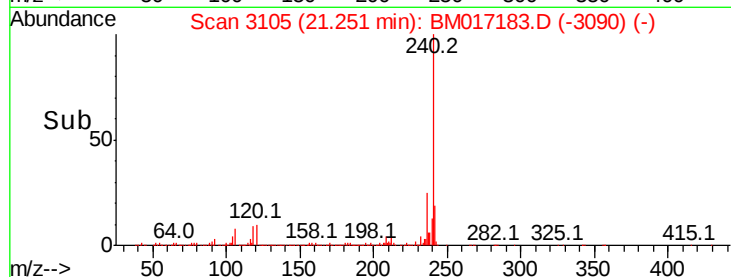
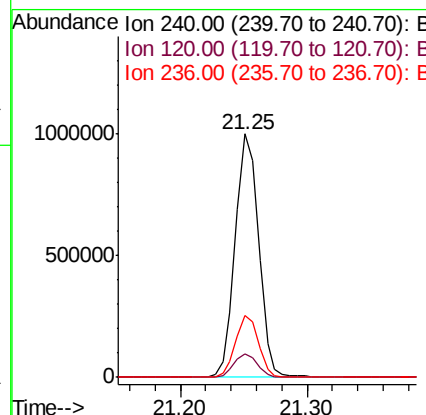
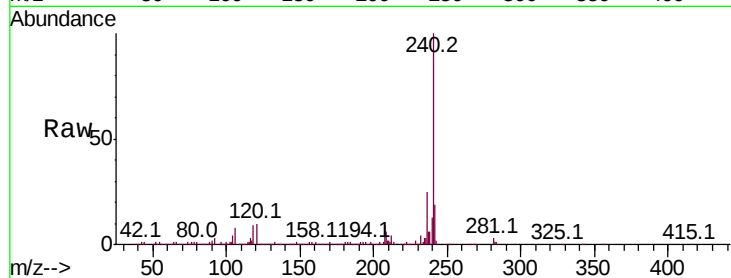




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.25 min Scan# 3105
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

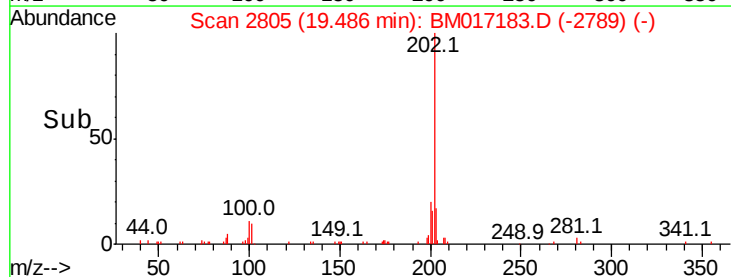
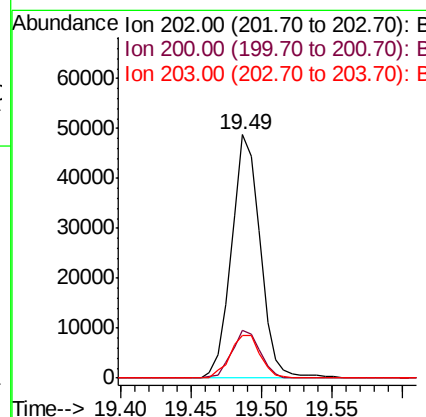
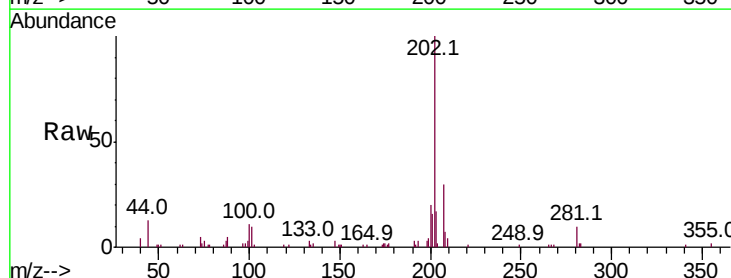
Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

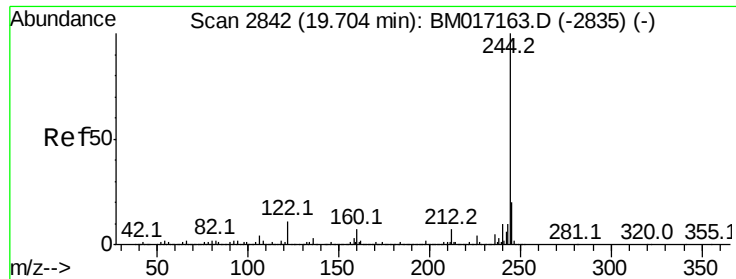
Tot Ion:240 Resp: 1273902
Ion Ratio Lower Upper
240 100
120 9.6 8.1 12.1
236 25.2 19.9 29.9



#78
Pyrene
Concen: 0.969 ng
RT: 19.49 min Scan# 2805
Delta R.T. -0.01 min
Lab File: BM017183.D
Acq: 18 Oct 2018 09:10

Tgt Ion:202 Resp: 69025
Ion Ratio Lower Upper
202 100
200 19.6 16.3 24.5
203 17.4 13.9 20.9

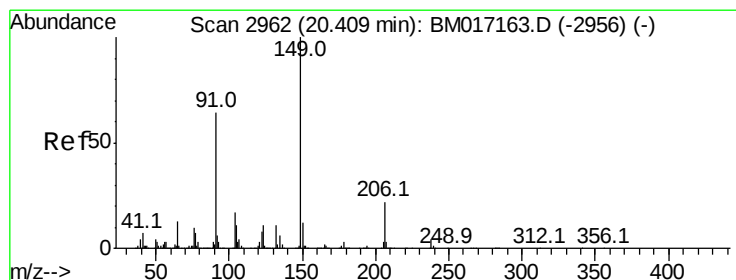
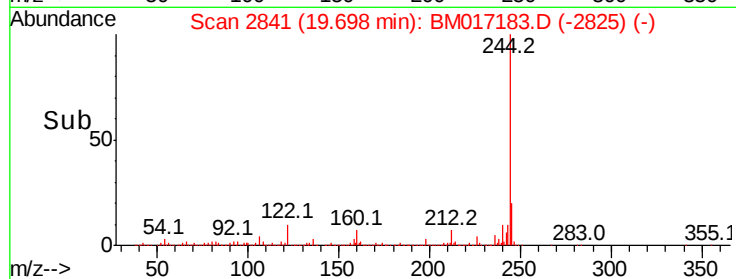
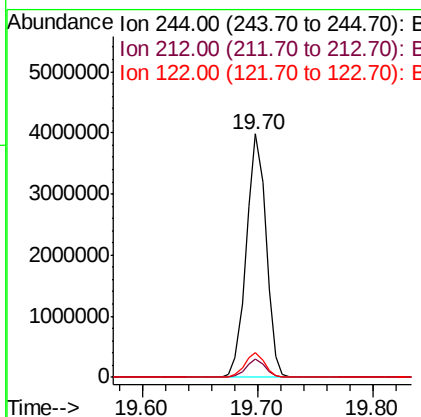
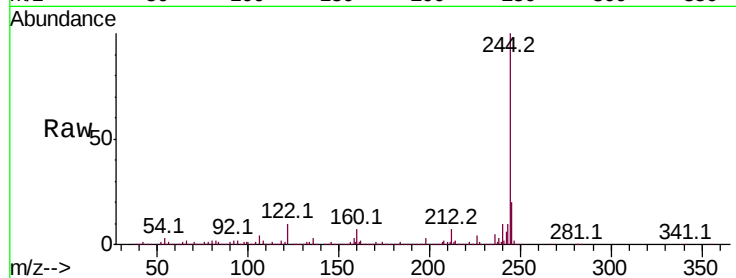




#79
 Terphenyl-d14
 Concen: 83.953 ng
 RT: 19.70 min Scan# 2841
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

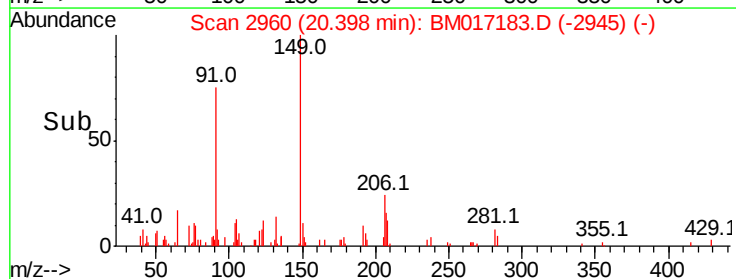
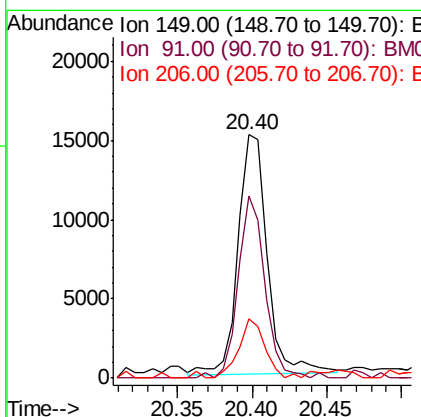
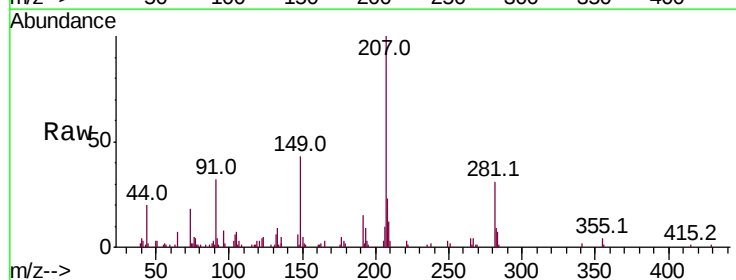
Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

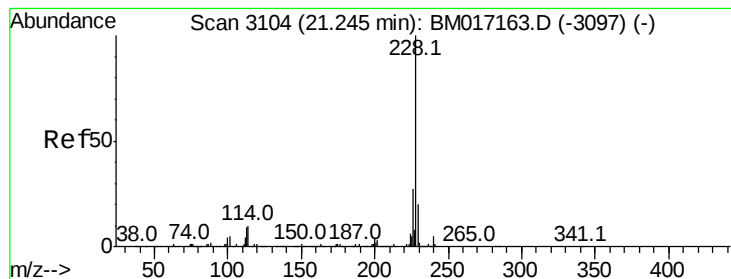
Tot Ion:244 Resp: 4744812
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.5 8.3
 122 10.3 8.4 12.6



#80
 Butylbenzylphthalate
 Concen: 7.829 ng
 RT: 20.40 min Scan# 2960
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Tgt Ion:149 Resp: 20794
 Ion Ratio Lower Upper
 149 100
 91 75.0 51.3 76.9
 206 24.4 18.0 27.0





#81

Benzo(a)anthracene

Concen: 1.058 ng

RT: 21.24 min Scan# 3103

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

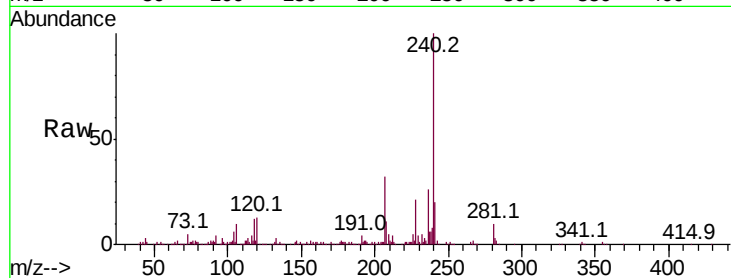
Tot Ion:228 Resp: 75843

Ion Ratio Lower Upper

228 100

226 25.6 21.4 32.0

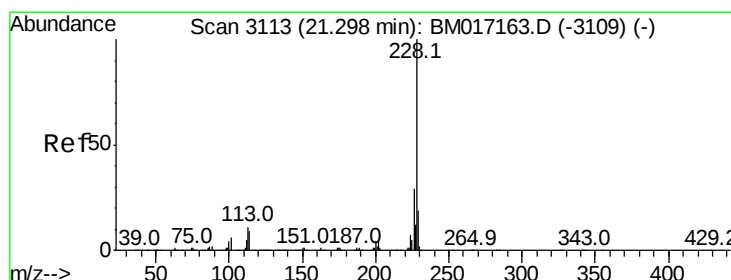
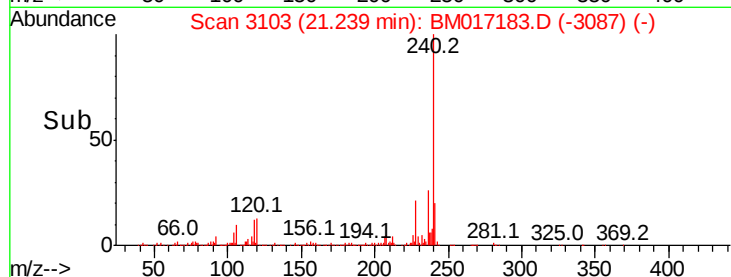
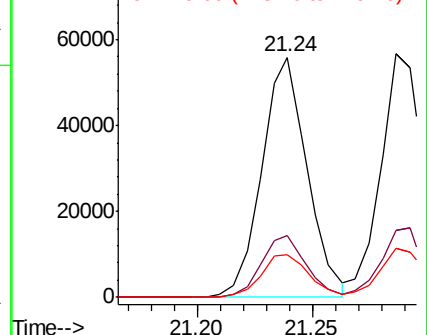
229 17.9 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 1.057 ng

RT: 21.29 min Scan# 3111

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

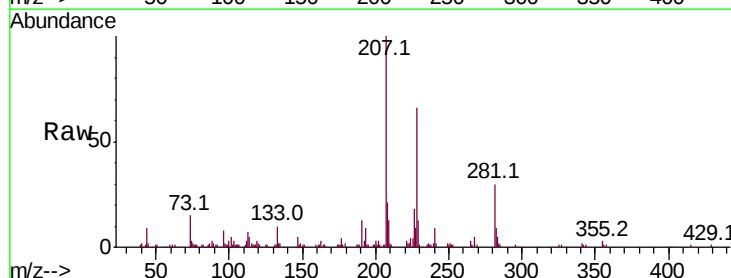
Tgt Ion:228 Resp: 75033

Ion Ratio Lower Upper

228 100

226 27.3 23.3 34.9

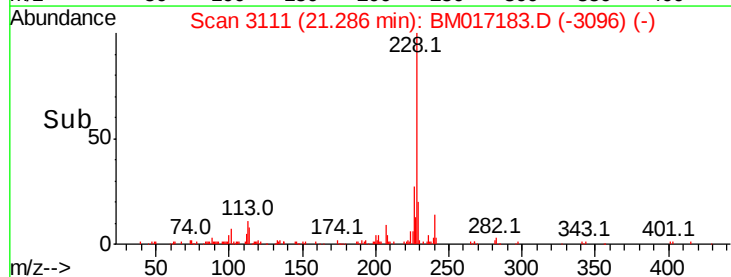
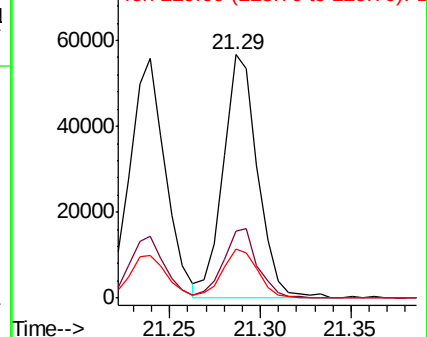
229 20.3 15.6 23.4

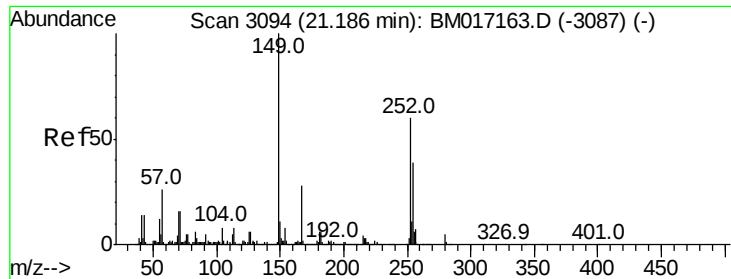


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 5.878 ng

RT: 21.18 min Scan# 3093

Delta R.T. -0.00 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

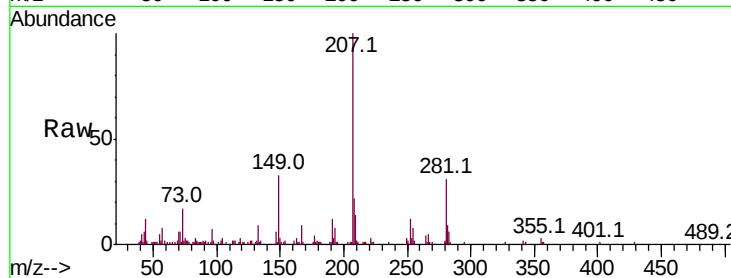
Tot Ion:149 Resp: 26585

Ion Ratio Lower Upper

149 100

167 28.0 22.2 33.4

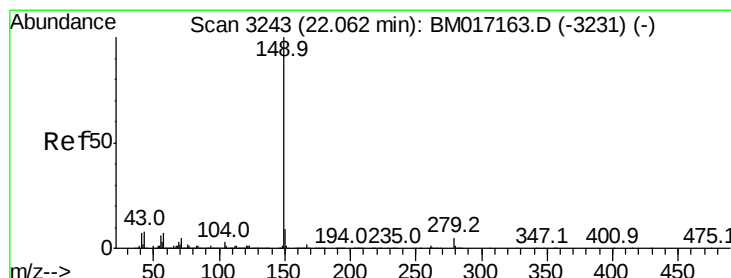
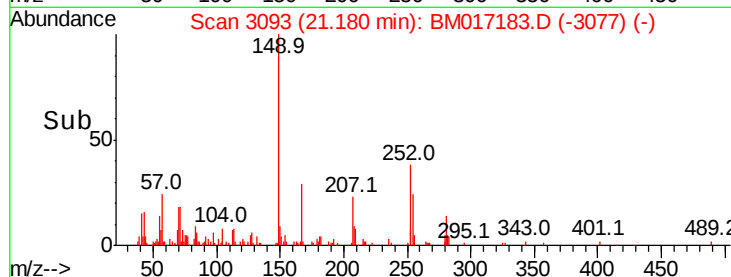
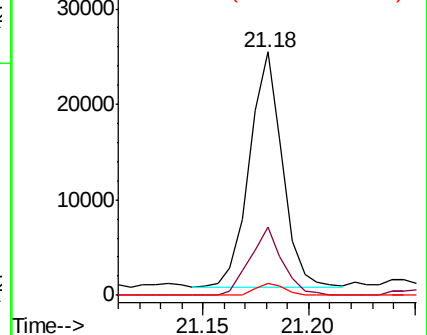
279 5.0 3.6 5.4



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 6.150 ng

RT: 22.05 min Scan# 3241

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

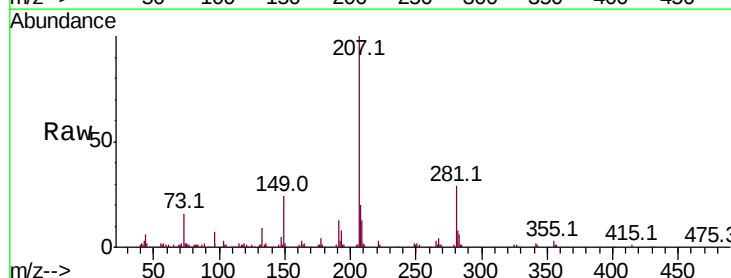
Tgt Ion:149 Resp: 45980

Ion Ratio Lower Upper

149 100

167 3.2 1.4 2.0#

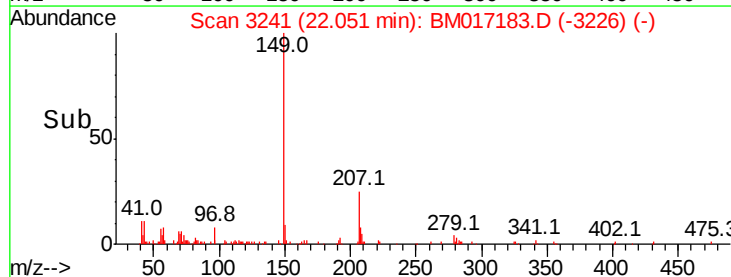
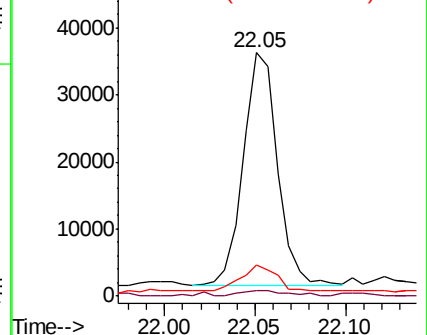
43 13.9 7.2 10.8#

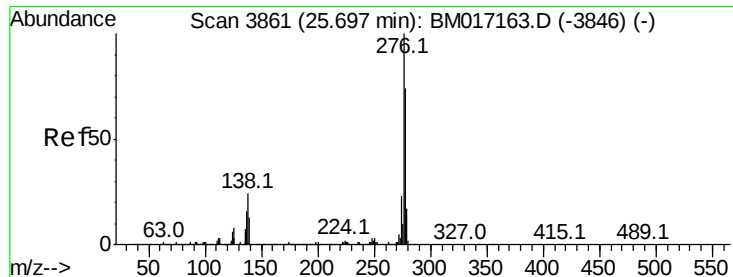


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BM

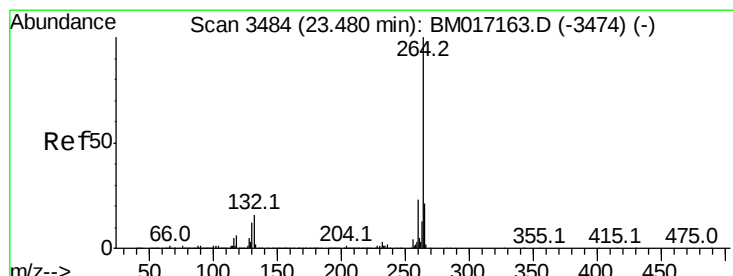
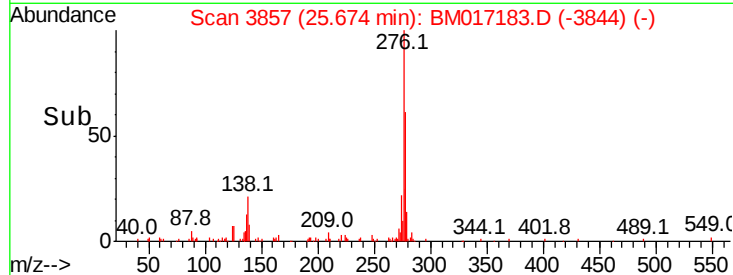
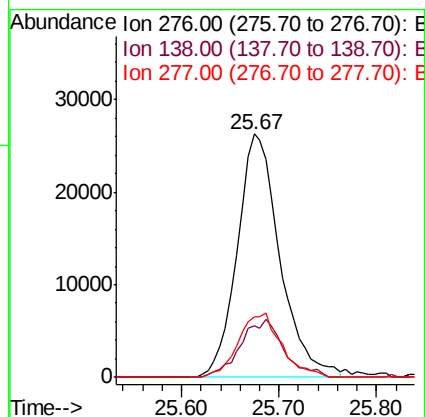
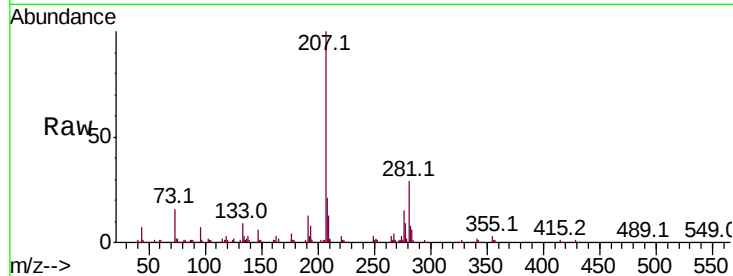




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 1.008 ng
 RT: 25.67 min Scan# 3857
 Delta R.T. -0.02 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

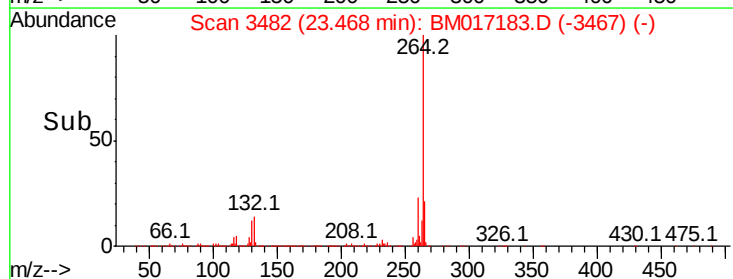
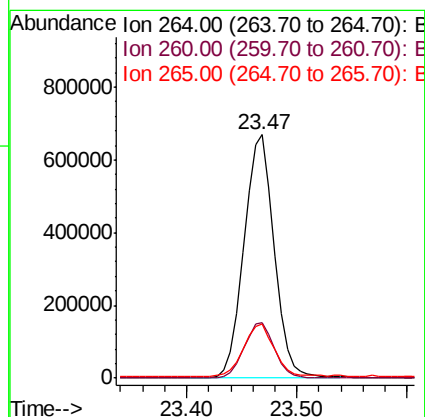
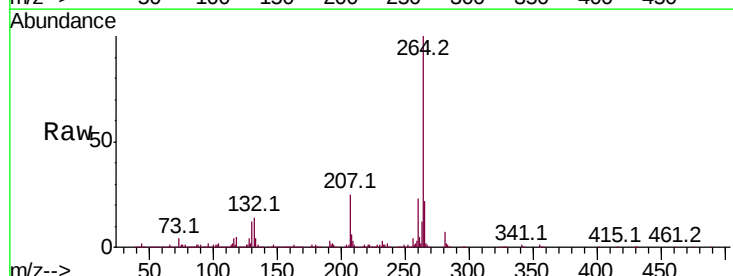
Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

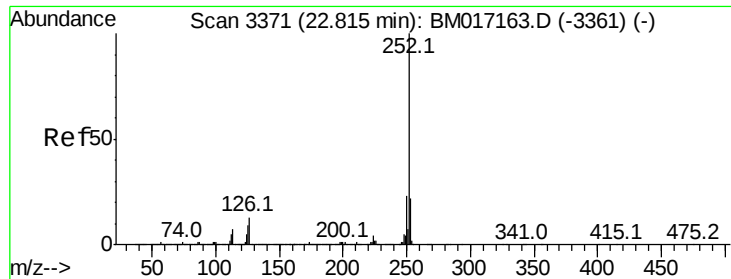
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.5	29.3
277	26.7	20.1	30.1



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.47 min Scan# 3482
 Delta R.T. -0.01 min
 Lab File: BM017183.D
 Acq: 18 Oct 2018 09:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	27.8
265	22.0	17.8	26.8





#88

Benzo(b)fluoranthene

Concen: 1.060 ng

RT: 22.80 min Scan# 3369

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

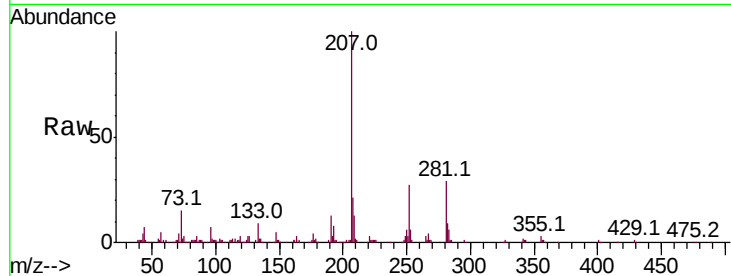
Tot Ion:252 Resp: 74915

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.2

125 10.5 7.5 11.3

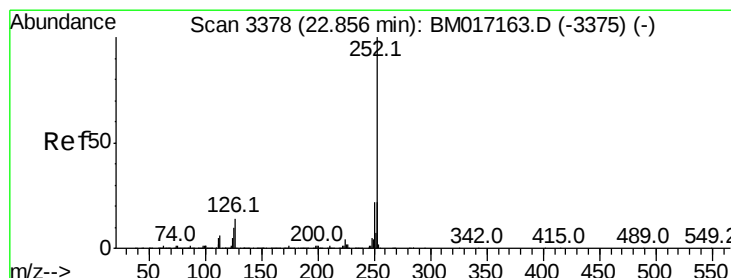
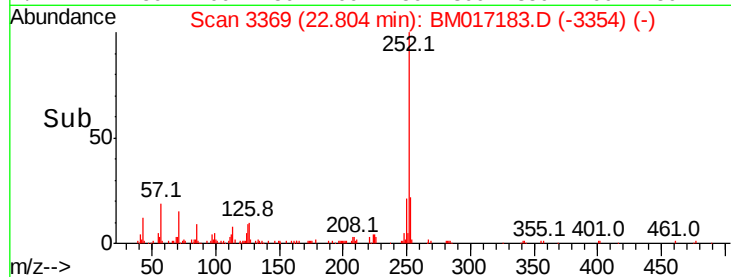
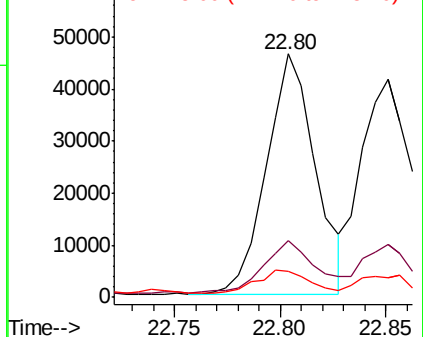


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 0.965 ng

RT: 22.85 min Scan# 3377

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

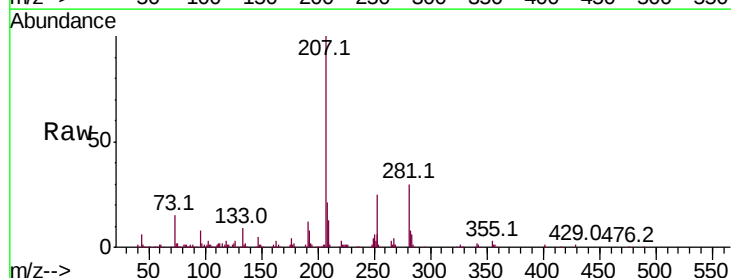
Tgt Ion:252 Resp: 68451

Ion Ratio Lower Upper

252 100

253 24.0 17.5 26.3

125 8.9 8.2 12.2

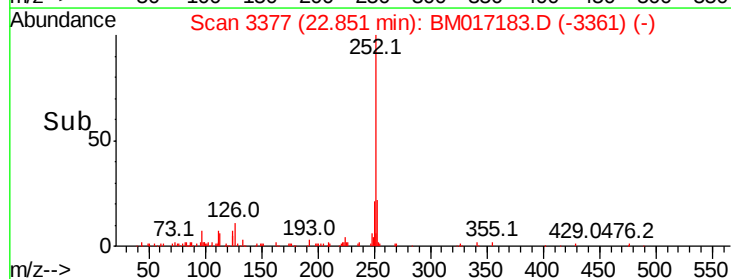
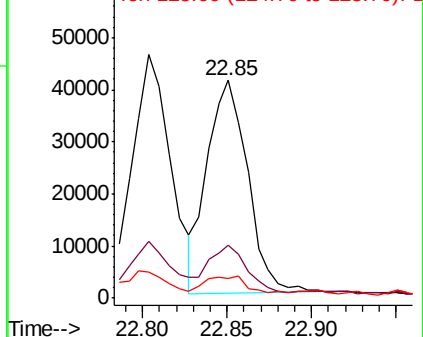


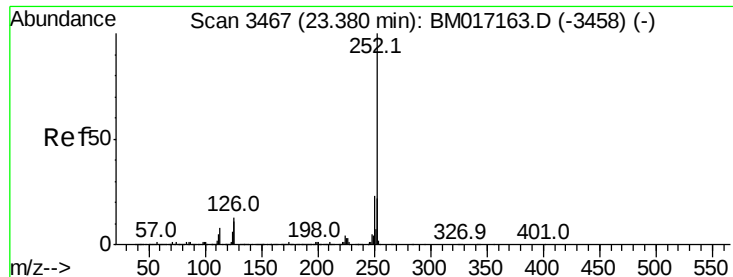
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 0.998 ng

RT: 23.37 min Scan# 3465

Delta R.T. -0.01 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :

BNA_M

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

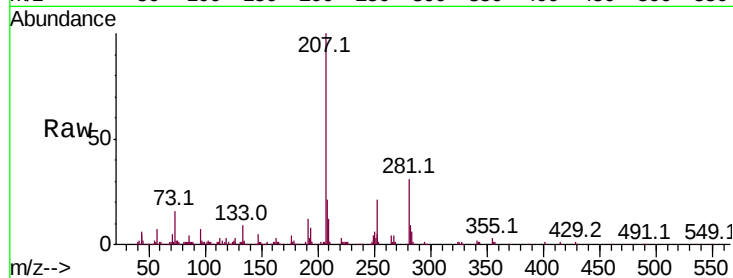
Tot Ion:252 Resp: 66929

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.0

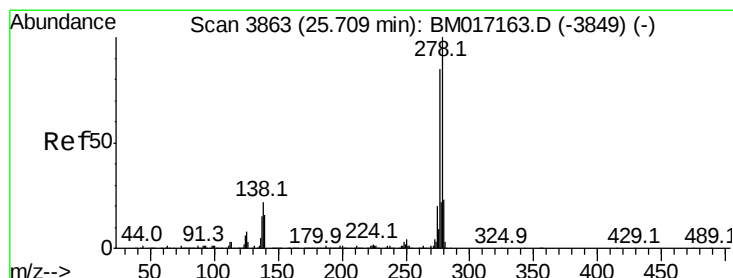
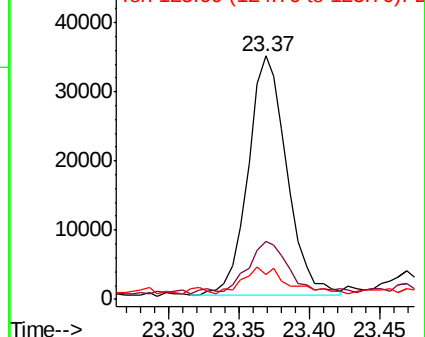
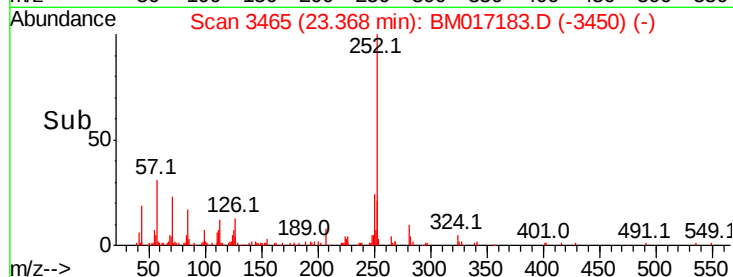
125 10.3 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 1.024 ng

RT: 25.69 min Scan# 3860

Delta R.T. -0.02 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

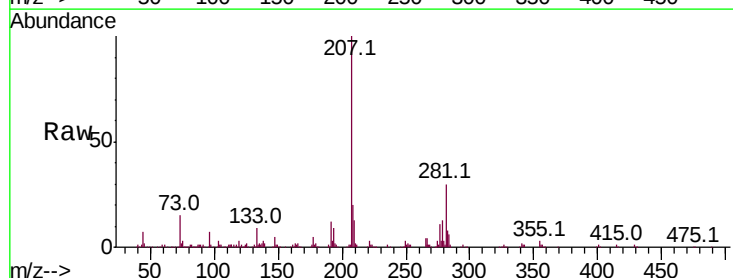
Tgt Ion:278 Resp: 68212

Ion Ratio Lower Upper

278 100

139 14.3 12.7 19.1

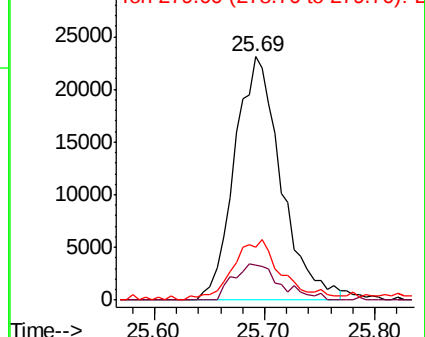
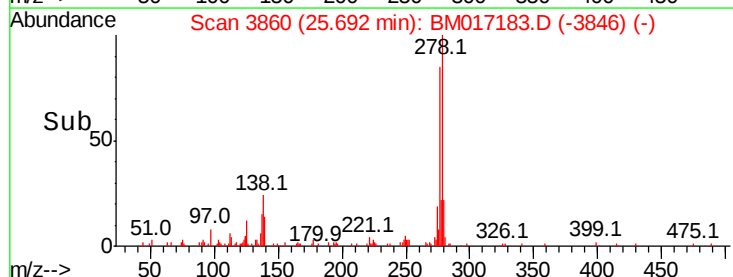
279 21.8 18.7 28.1

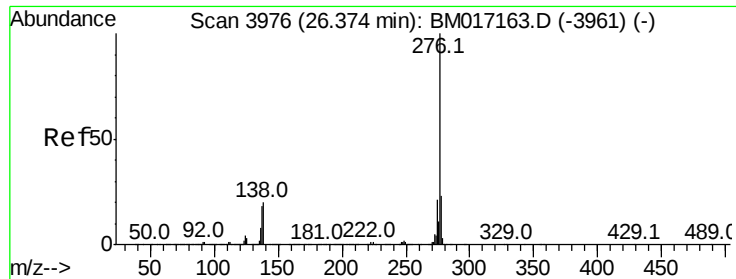


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 1.050 ng

RT: 26.36 min Scan# 3973

Delta R.T. -0.02 min

Lab File: BM017183.D

Acq: 18 Oct 2018 09:10

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tot Ion: 276 Resp: 69352

Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.6	28.0
138	20.6	16.4	24.6

