

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050719\
 Data File : BM020181.D
 Acq On : 08 May 2019 00:57
 Operator : JU/SJ
 Sample : K2703-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 P-3-OW(0-10)

Quant Time: May 08 02:11:45 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	123214	20.00	ng	0.00
21) Naphthalene-d8	10.58	136	442329	20.00	ng	0.00
39) Acenaphthene-d10	14.43	164	276897	20.00	ng	0.00
64) Phenanthrene-d10	17.18	188	674870	20.00	ng	0.00
76) Chrysene-d12	21.36	240	728124	20.00	ng	0.00
87) Perylene-d12	23.65	264	862979	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	943907	125.22	ng	0.00
7) Phenol-d6	6.96	99	1294290	125.69	ng	0.00
23) Nitrobenzene-d5	8.95	82	931679	83.16	ng	0.00
42) 2,4,6-Tribromophenol	15.92	330	605068	140.78	ng	0.00
45) 2-Fluorobiphenyl	13.05	172	1873089	83.23	ng	-0.01
79) Terphenyl-d14	19.80	244	3366375	80.64	ng	0.00

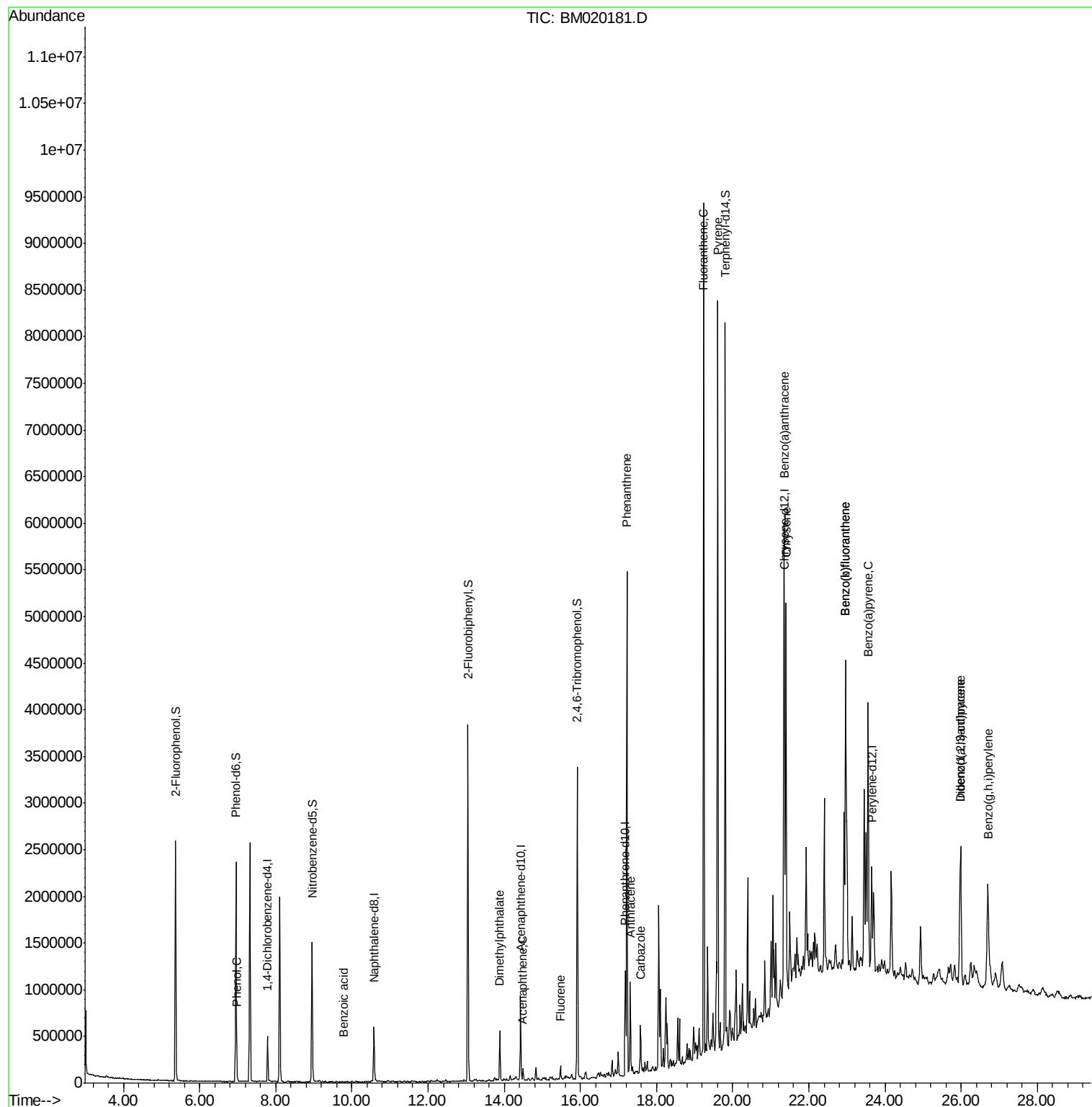
Target Compounds				Qvalue		
10) Phenol	6.98	94	35545	3.206	ng	95
32) Benzoic acid	9.80	122	112	6.634	ng	# 39
50) Dimethylphthalate	13.89	163	306167	13.010	ng	97
52) Acenaphthene	14.49	154	38693	2.317	ng	95
58) Fluorene	15.48	166	66305	2.866	ng	99
71) Phenanthrene	17.22	178	3020744	81.086	ng	99
72) Anthracene	17.31	178	564682	15.161	ng	100
73) Carbazole	17.59	167	314836	9.368	ng	99
75) Fluoranthene	19.24	202	5317853	112.822	ng	99
78) Pyrene	19.60	202	4663845	95.403	ng	99
81) Benzo(a)anthracene	21.34	228	2527327	49.494	ng	99
83) Chrysene	21.40	228	2404878	48.561	ng	98
86) Indeno(1,2,3-cd)pyrene	25.98	276	1528296	25.945	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	3898314	68.408	ng	99
89) Benzo(k)fluoranthene	22.96	252	3897924	74.986	ng	100
90) Benzo(a)pyrene	23.56	252	2202016	42.541	ng	99
91) Dibenzo(a,h)anthracene	25.98	278	385942	7.170	ng	# 88
92) Benzo(g,h,i)perylene	26.70	276	1510655	29.559	ng	99

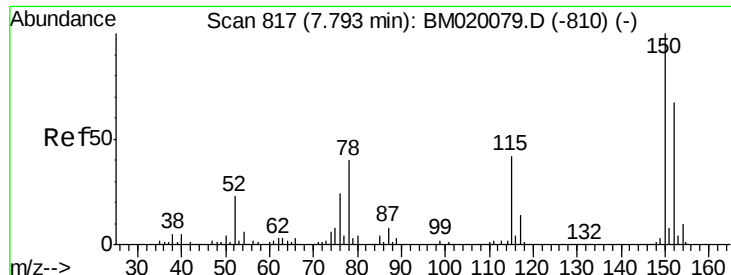
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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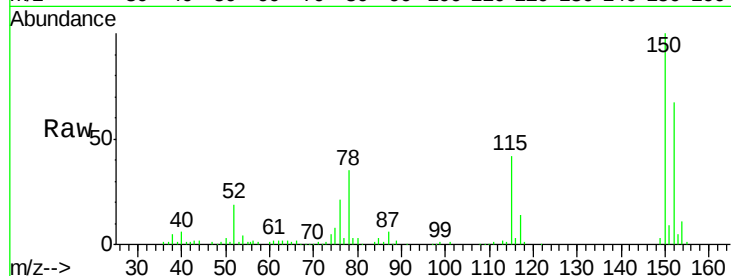


#1

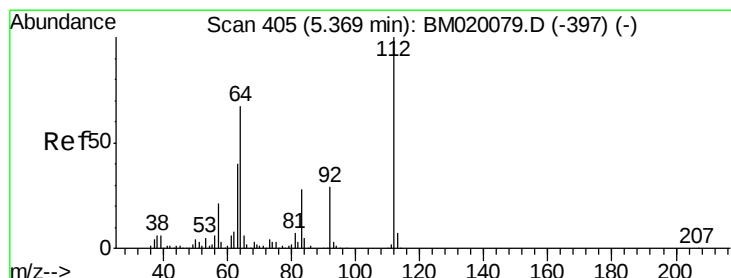
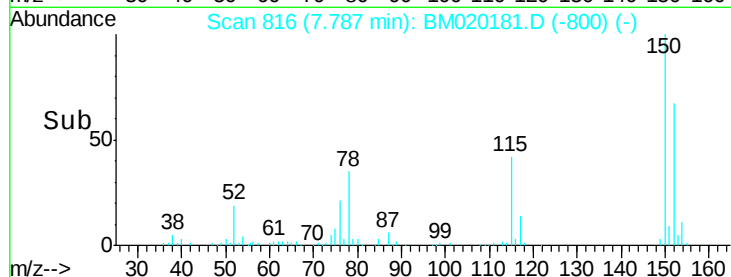
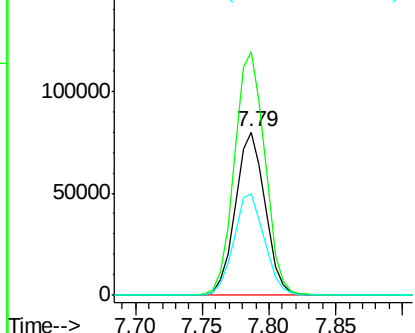
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.79 min Scan# 816
Delta R.T. -0.01 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Instrument :
BNA_M
ClientSampleId :
P-3-OW(0-10)

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.2	119.8	179.8
115	62.5	50.8	76.2



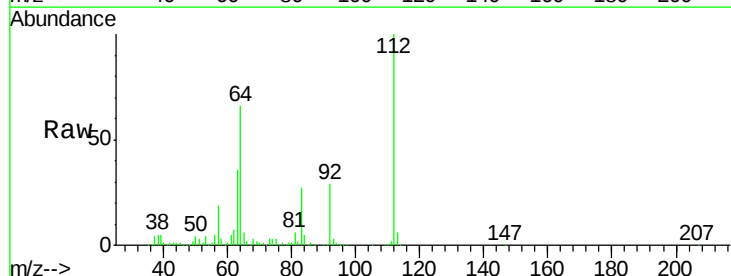
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



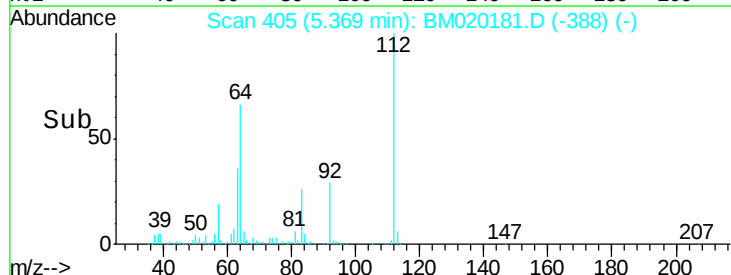
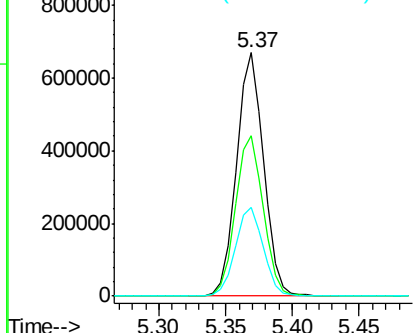
#5

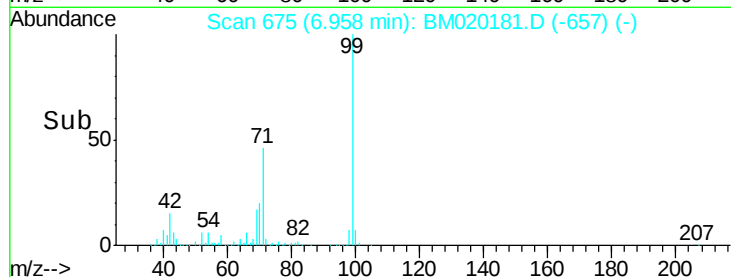
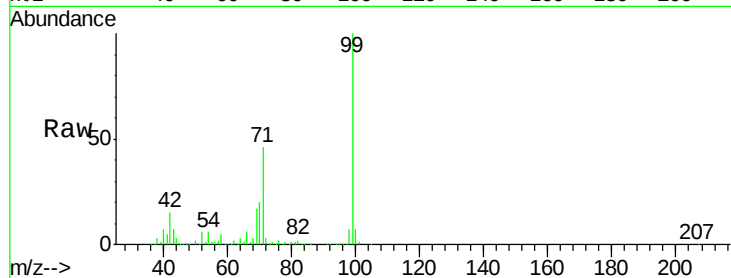
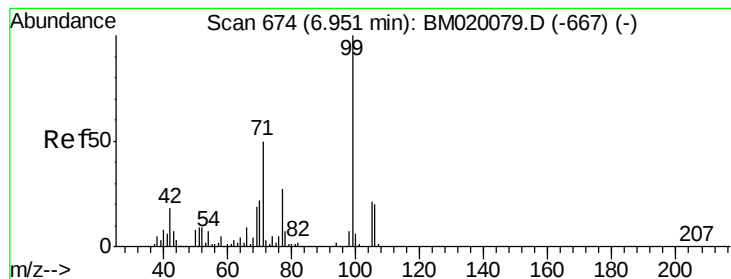
2-Fluorophenol
Concen: 125.221 ng
RT: 5.37 min Scan# 405
Delta R.T. 0.00 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.9	53.8	80.6
63	36.5	32.3	48.5



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: 125.686 ng

RT: 6.96 min Scan# 675

Delta R.T. 0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

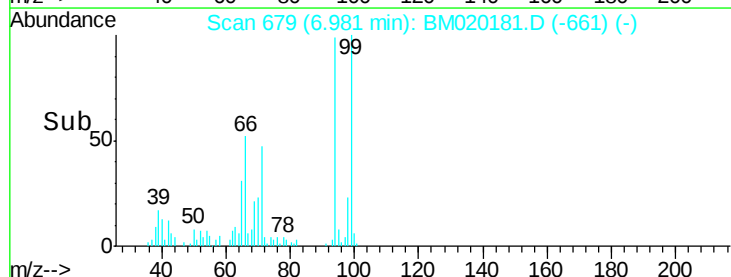
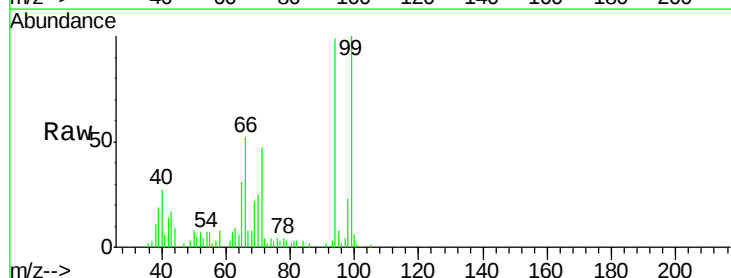
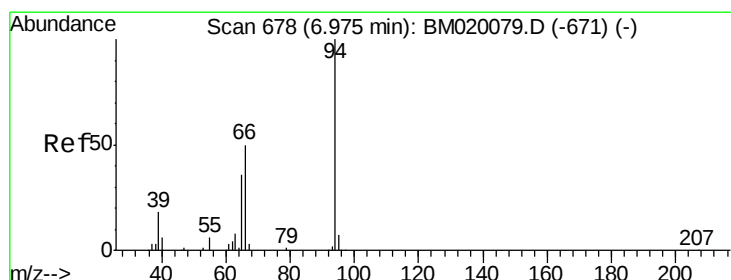
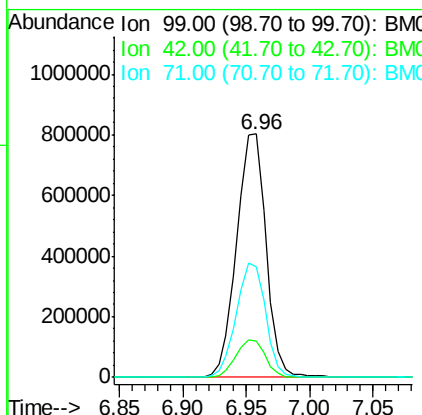
Tot Ion: 99 Resp: 1294290

Ion Ratio Lower Upper

99 100

42 15.1 14.2 21.2

71 45.5 40.3 60.5



#10

Phenol

Concen: 3.206 ng

RT: 6.98 min Scan# 679

Delta R.T. 0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

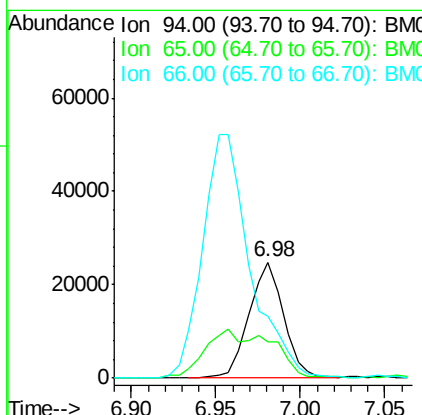
Tgt Ion: 94 Resp: 35545

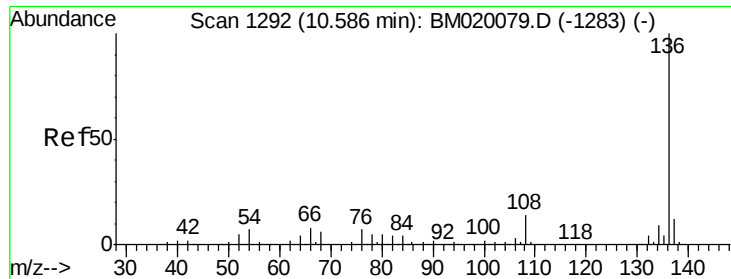
Ion Ratio Lower Upper

94 100

65 31.5 17.0 57.0

66 52.9 34.5 74.5

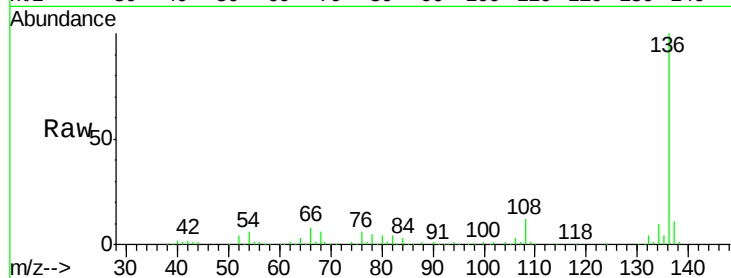




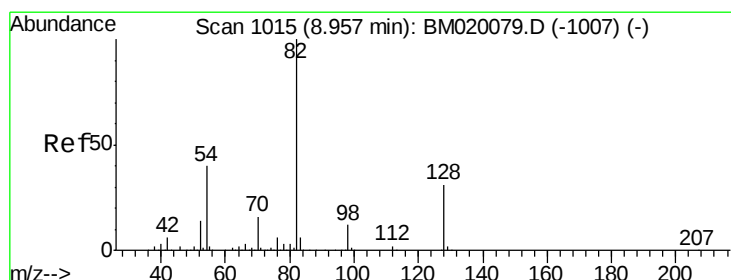
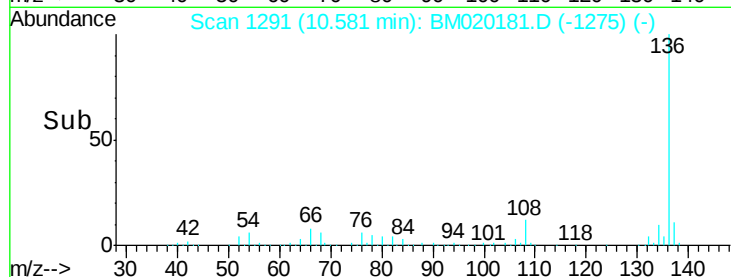
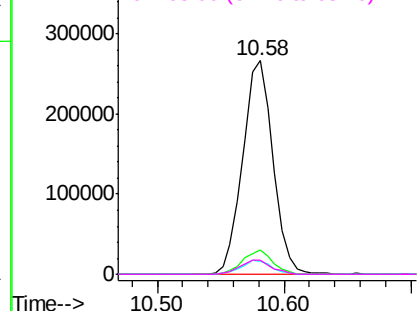
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.58 min Scan# 1291
Delta R.T. -0.01 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Instrument :
BNA_M
ClientSampleId :
P-3-OW(0-10)

Tot Ion:136	Resp:	442329
Ion Ratio	Lower	Upper
136 100		
137 11.3	9.6	14.4
54 5.8	5.5	8.3
68 6.4	4.6	6.8

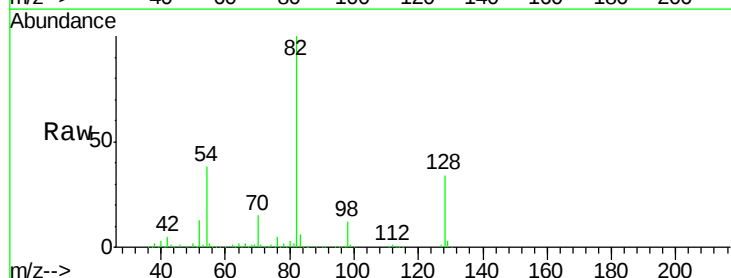


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM
Ion 68.00 (67.70 to 68.70): BM

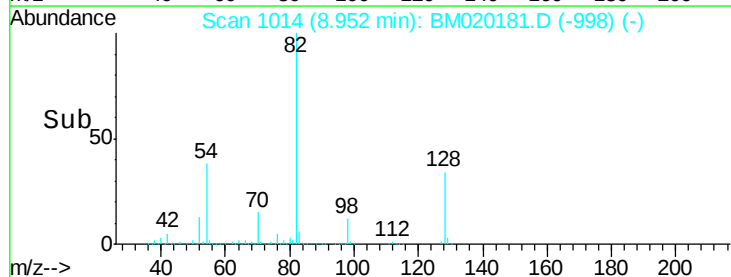
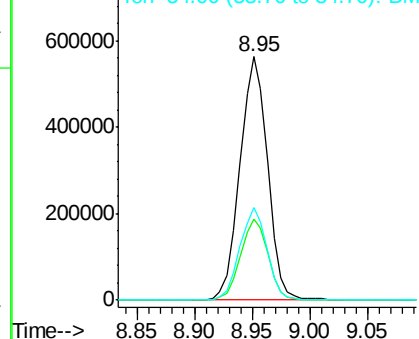


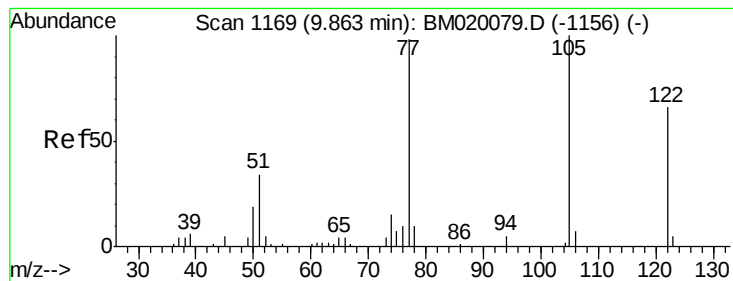
#23
Nitrobenzene-d5
Concen: 83.157 ng
RT: 8.95 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Tgt Ion: 82	Resp: 931679
Ion Ratio	Lower Upper
82 100	
128 33.6	25.2 37.8
54 38.0	31.9 47.9



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





#32

Benzoic acid

Concen: 6.634 ng

RT: 9.80 min Scan# 1158

Delta R.T. -0.06 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

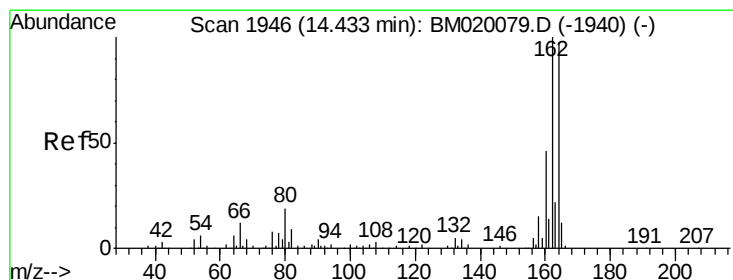
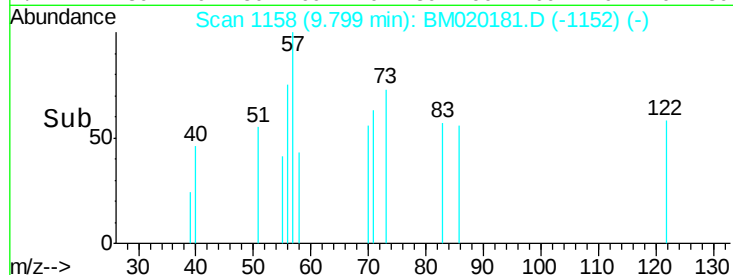
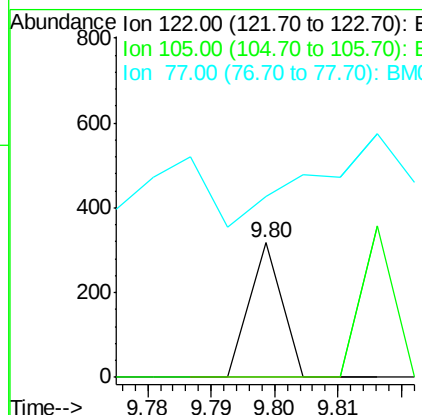
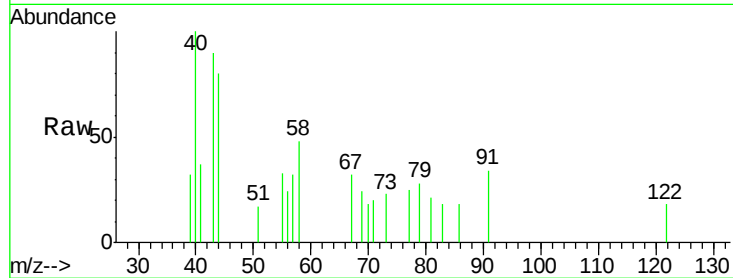
BNA_M

ClientSampleId :

P-3-OW(0-10)

Tot Ion:122 Resp: 112

Ion	Ratio	Lower	Upper
122	100		
105	0.0	122.5	162.5#
77	134.4	123.3	163.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.43 min Scan# 1945

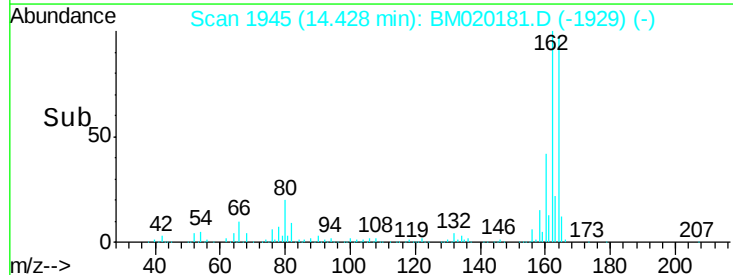
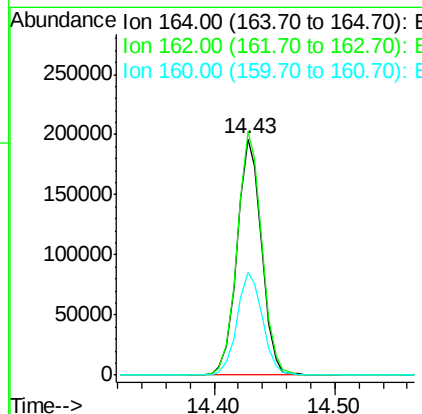
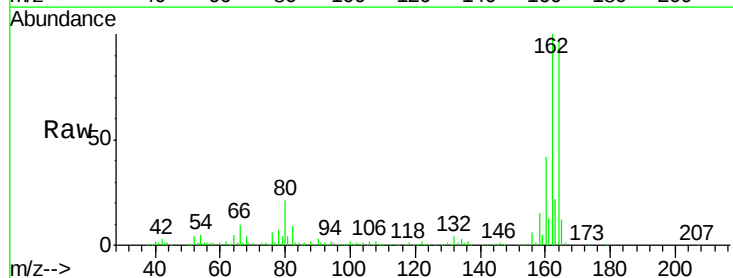
Delta R.T. -0.01 min

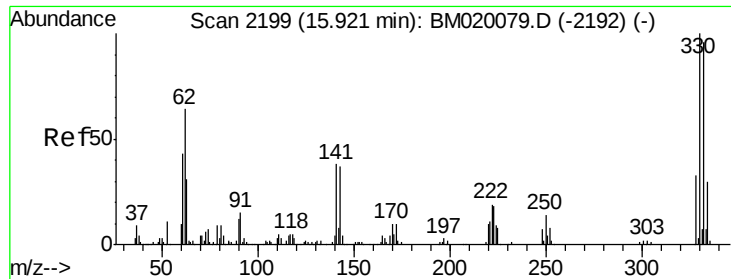
Lab File: BM020181.D

Acq: 08 May 2019 00:57

Tgt Ion:164 Resp: 276897

Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.2	123.2
160	43.4	37.6	56.4

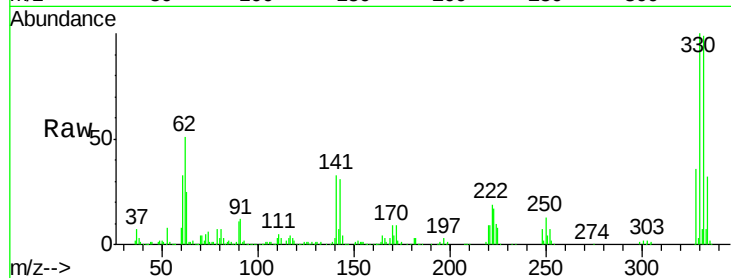




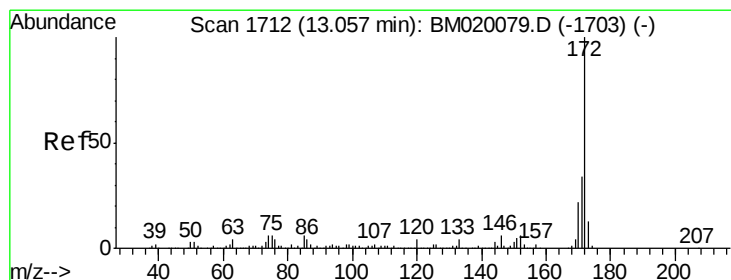
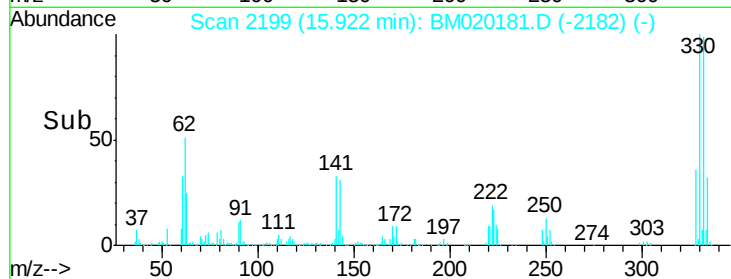
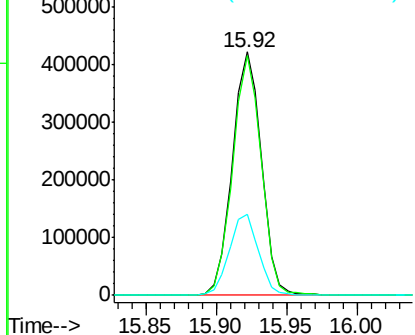
#42
 2,4,6-Tribromophenol
 Concen: 140.780 ng
 RT: 15.92 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: BM020181.D
 Acq: 08 May 2019 00:57

Instrument :
 BNA_M
 ClientSampleId :
 P-3-OW(0-10)

Tot Ion:330 Resp: 605068
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.8 115.2
 141 33.0 29.2 43.8

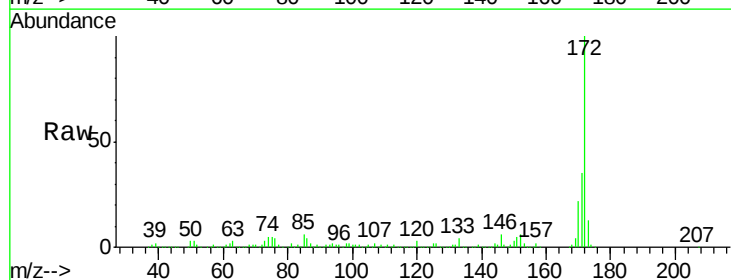


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

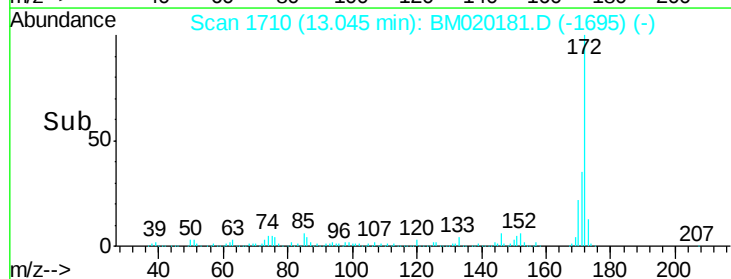
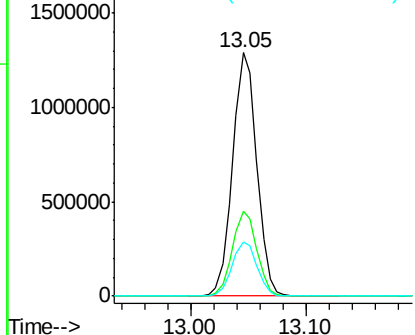


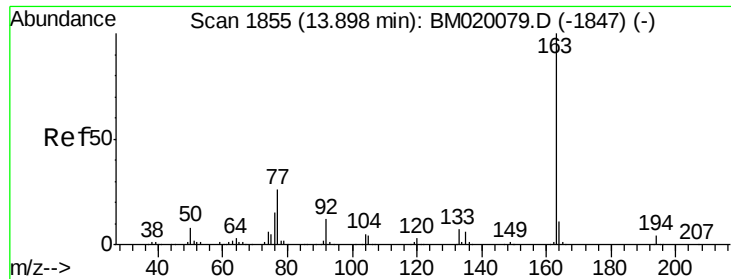
#45
 2-Fluorobiphenyl
 Concen: 83.229 ng
 RT: 13.05 min Scan# 1710
 Delta R.T. -0.01 min
 Lab File: BM020181.D
 Acq: 08 May 2019 00:57

Tgt Ion:172 Resp: 1873089
 Ion Ratio Lower Upper
 172 100
 171 34.9 27.3 40.9
 170 22.5 17.9 26.9



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





#50

Dimethylphthalate

Concen: 13.010 ng

RT: 13.89 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

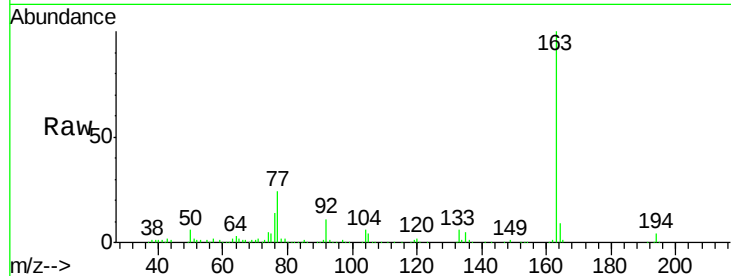
Tot Ion:163 Resp: 306167

Ion Ratio Lower Upper

163 100

194 4.4 3.6 5.4

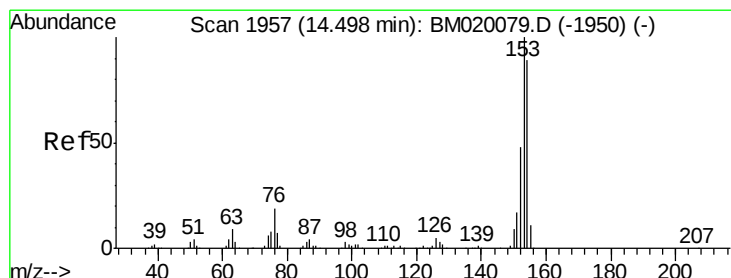
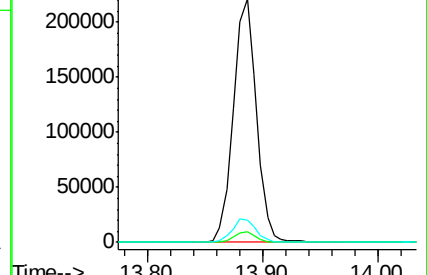
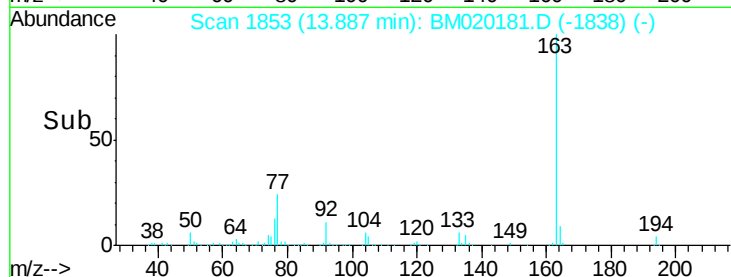
164 9.1 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52

Acenaphthene

Concen: 2.317 ng

RT: 14.49 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

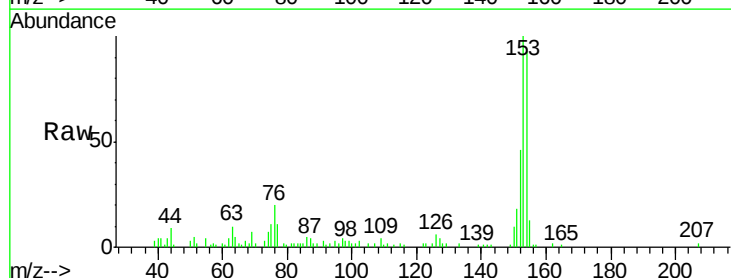
Tgt Ion:154 Resp: 38693

Ion Ratio Lower Upper

154 100

153 107.4 90.2 135.2

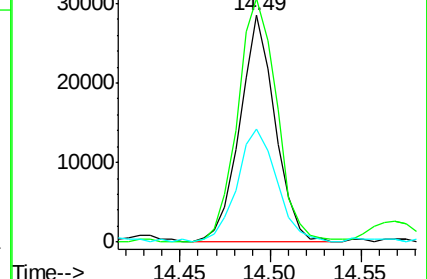
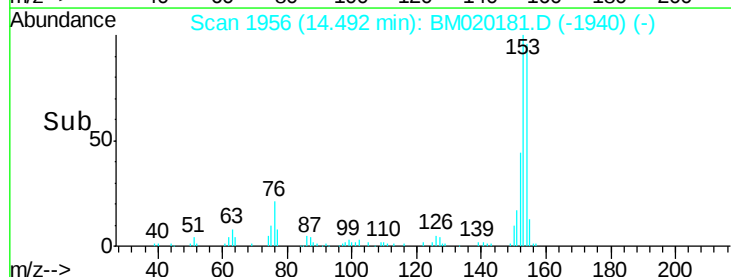
152 49.8 43.0 64.4

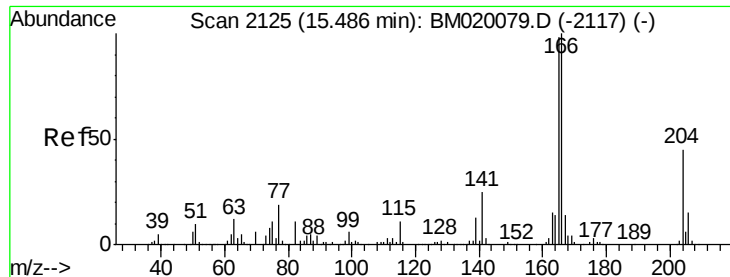


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#58

Fluorene

Concen: 2.866 ng

RT: 15.48 min Scan# 2124

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

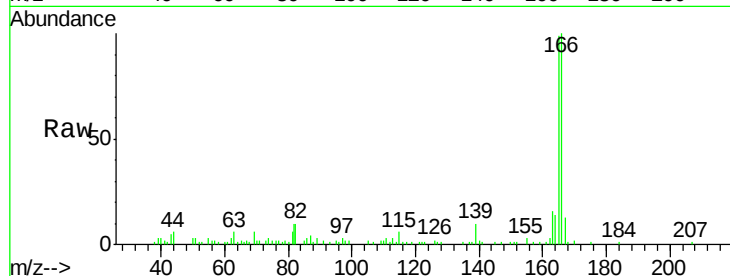
Tot Ion:166 Resp: 66305

Ion Ratio Lower Upper

166 100

165 99.1 78.2 117.2

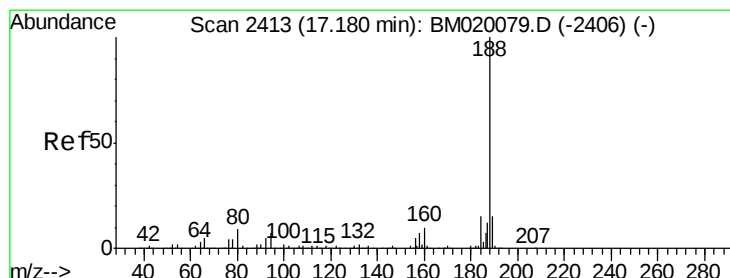
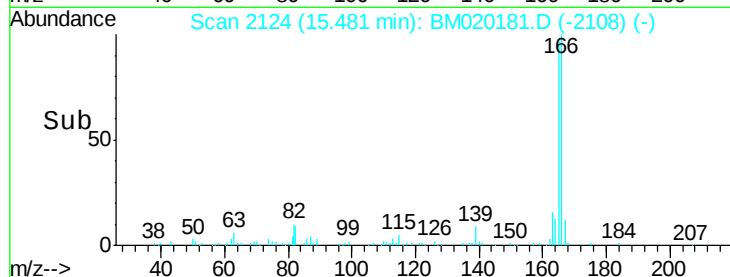
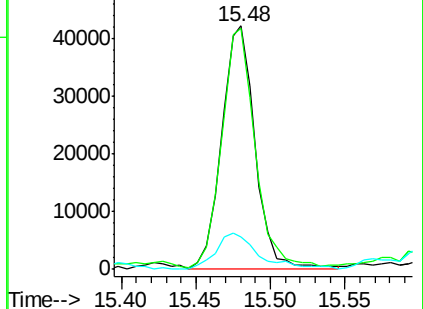
167 13.3 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.18 min Scan# 2413

Delta R.T. 0.00 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

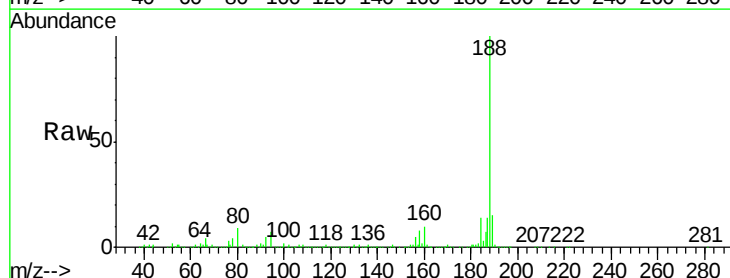
Tgt Ion:188 Resp: 674870

Ion Ratio Lower Upper

188 100

94 7.3 5.8 8.6

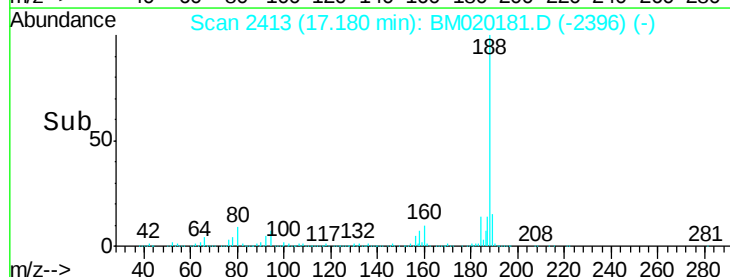
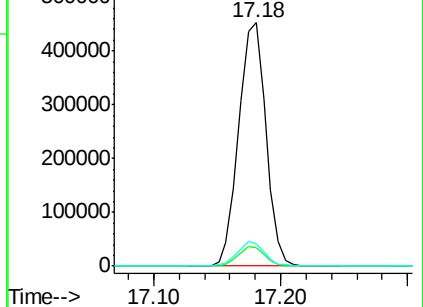
80 9.4 7.4 11.2

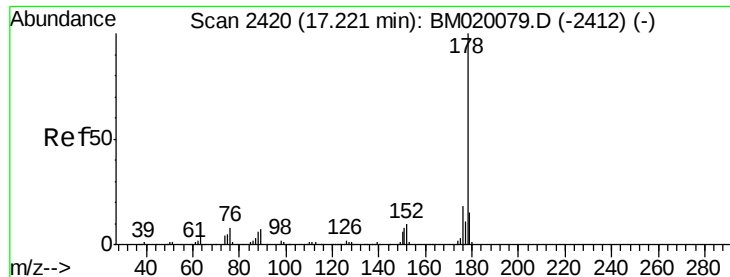


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

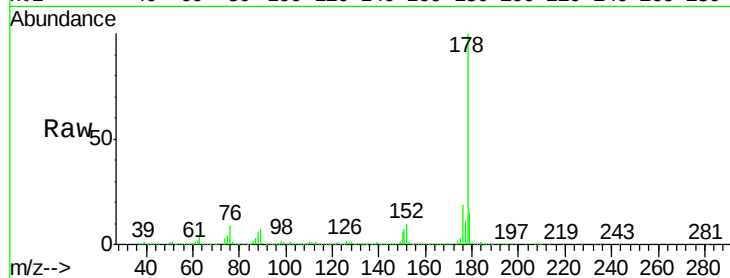




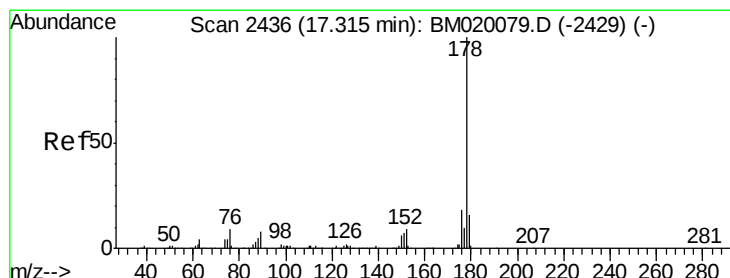
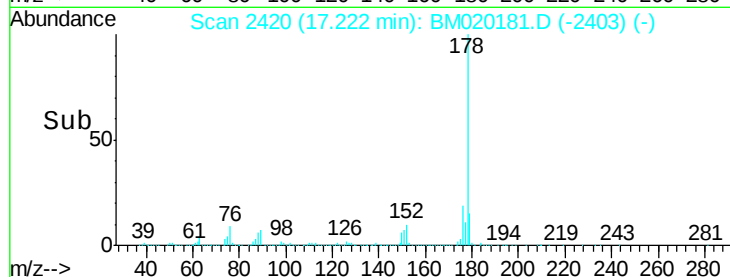
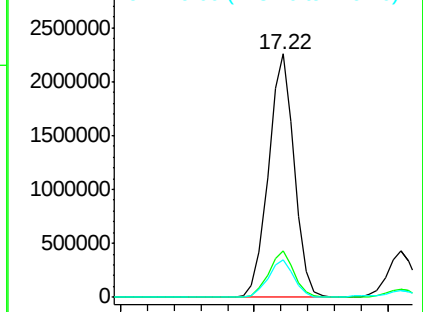
#71
Phenanthrene
Concen: 81.086 ng
RT: 17.22 min Scan# 2420
Delta R.T. 0.00 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Instrument :
BNA_M
ClientSampleId :
P-3-OW(0-10)

Tot Ion:178 Resp: 3020744
Ion Ratio Lower Upper
178 100
176 19.1 14.6 21.8
179 15.5 12.4 18.6

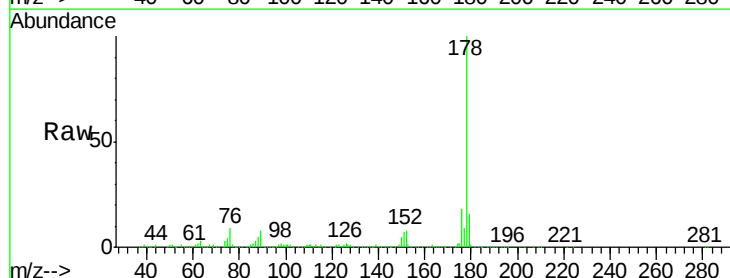


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

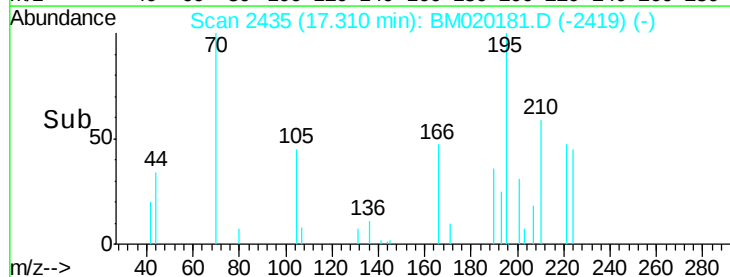
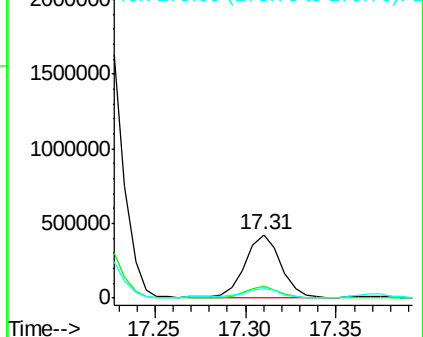


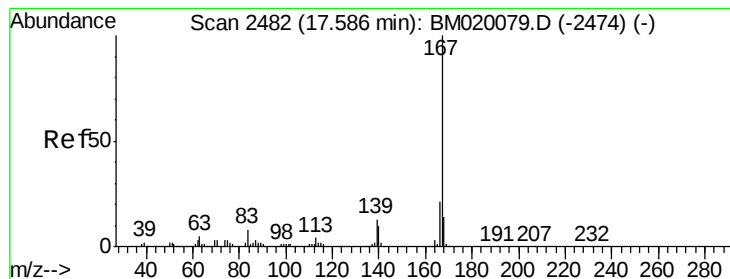
#72
Anthracene
Concen: 15.161 ng
RT: 17.31 min Scan# 2435
Delta R.T. -0.01 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Tgt Ion:178 Resp: 564682
Ion Ratio Lower Upper
178 100
176 18.0 14.6 22.0
179 15.6 12.4 18.6



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: 9.368 ng

RT: 17.59 min Scan# 2482

Delta R.T. 0.00 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

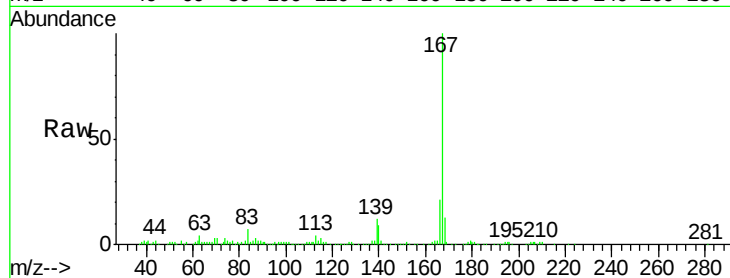
Tot Ion:167 Resp: 314836

Ion Ratio Lower Upper

167 100

166 21.3 17.0 25.6

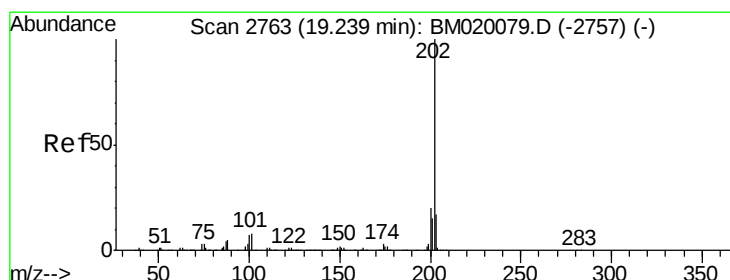
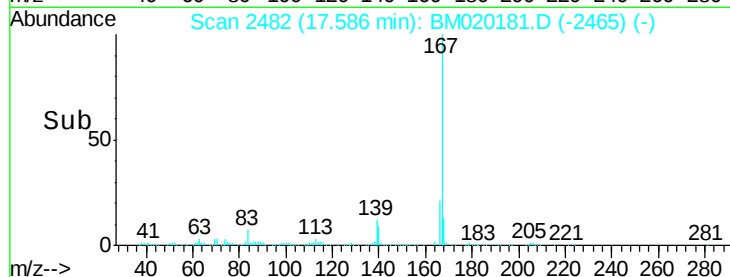
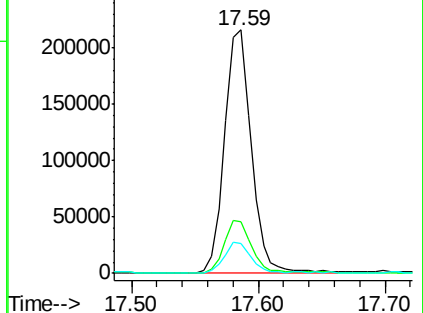
139 12.2 10.6 16.0



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



#75

Fluoranthene

Concen: 112.822 ng

RT: 19.24 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

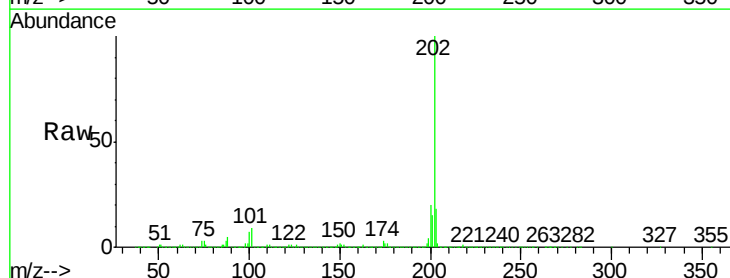
Tgt Ion:202 Resp: 5317853

Ion Ratio Lower Upper

202 100

101 8.9 0.0 28.4

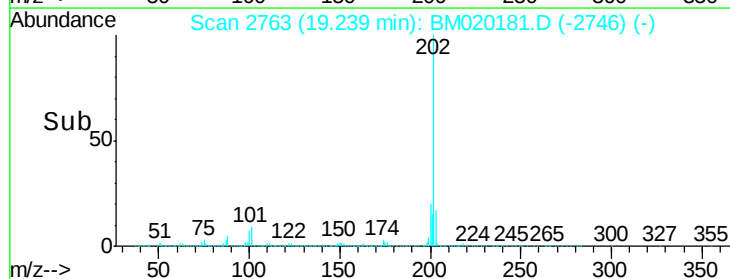
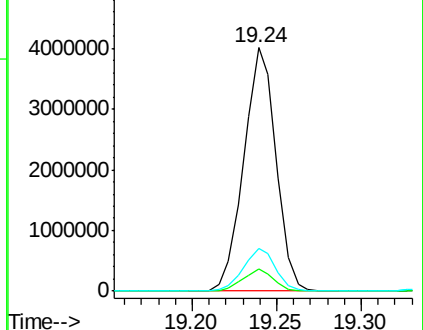
203 17.7 0.0 37.4

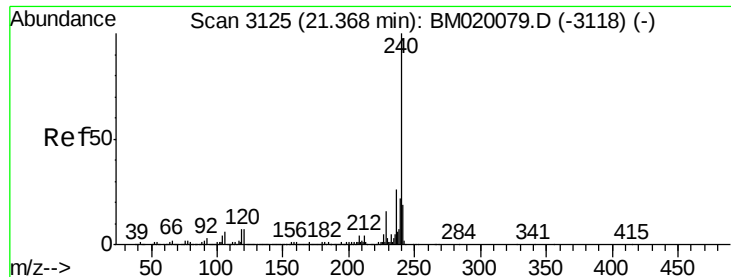


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.36 min Scan# 3124

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

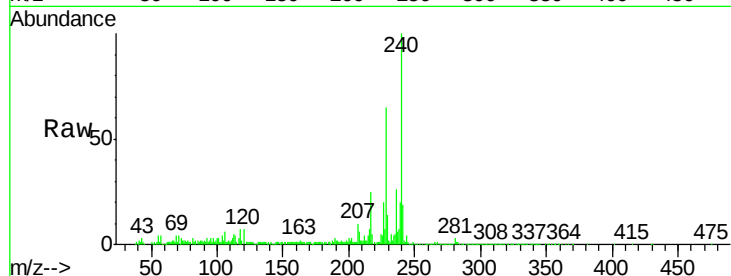
Tot Ion:240 Resp: 728124

Ion Ratio Lower Upper

240 100

120 7.1 5.6 8.4

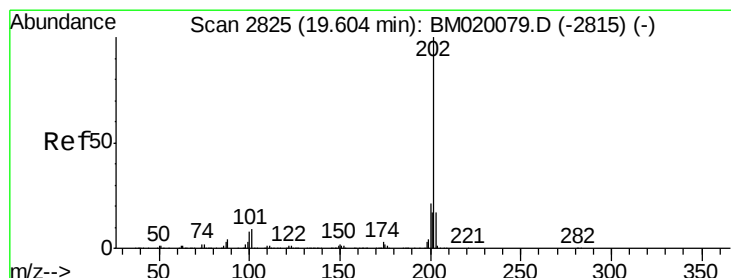
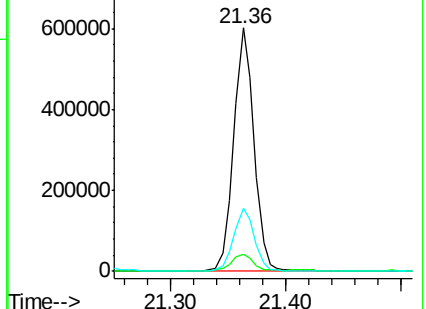
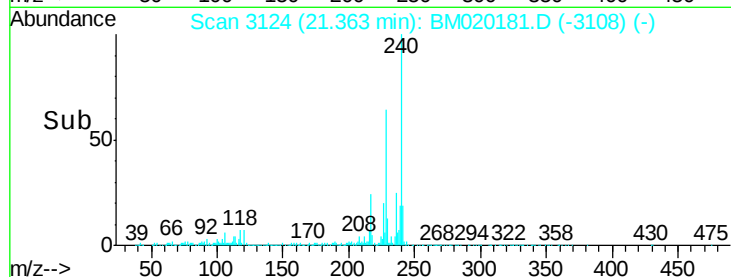
236 25.7 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 95.403 ng

RT: 19.60 min Scan# 2825

Delta R.T. 0.00 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

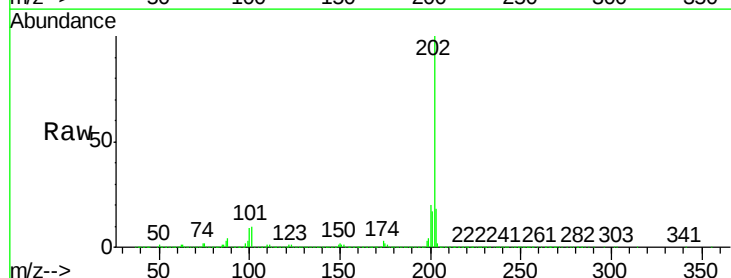
Tgt Ion:202 Resp: 4663845

Ion Ratio Lower Upper

202 100

200 20.3 16.5 24.7

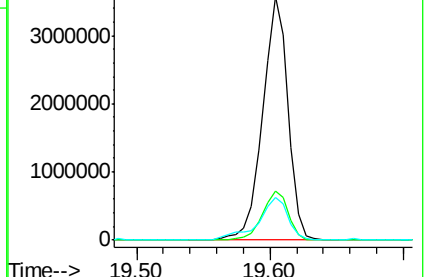
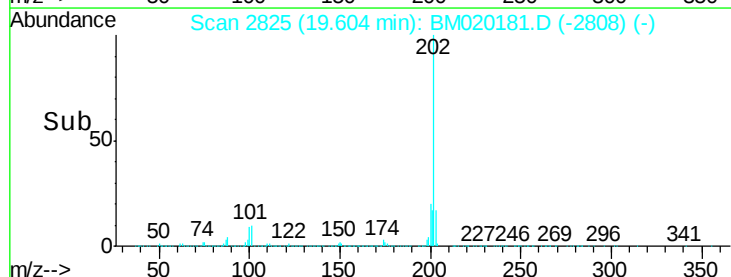
203 17.6 13.9 20.9

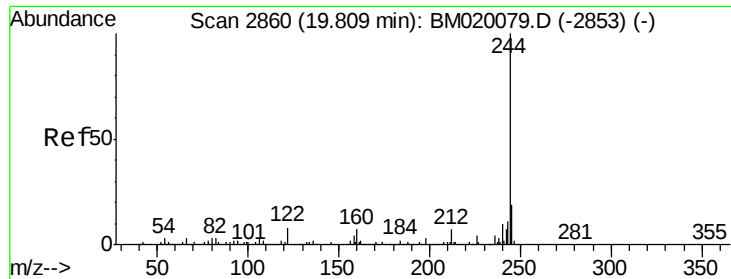


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 80.641 ng

RT: 19.80 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

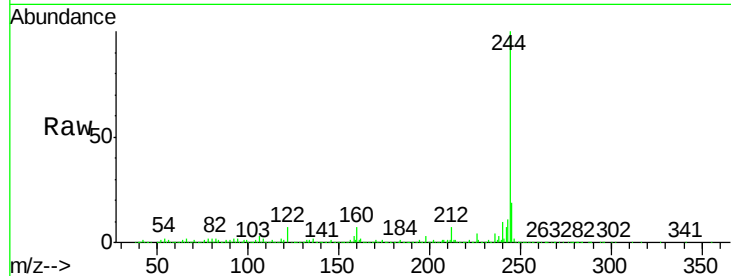
Tot Ion:244 Resp: 3366375

Ion Ratio Lower Upper

244 100

212 6.7 5.7 8.5

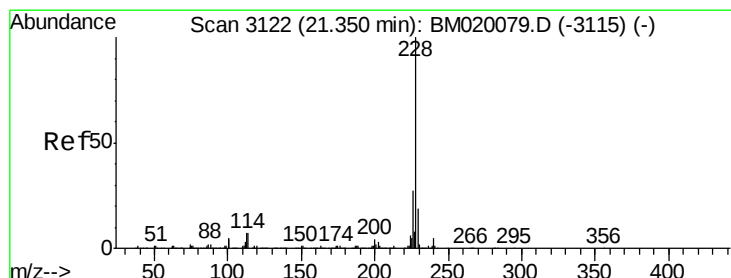
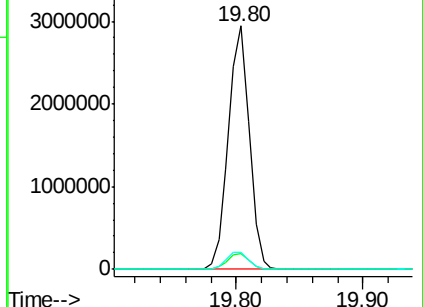
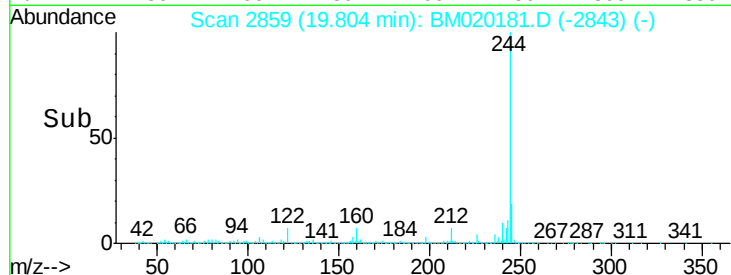
122 7.1 6.2 9.2



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

Benzo(a)anthracene

Concen: 49.494 ng

RT: 21.34 min Scan# 3121

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

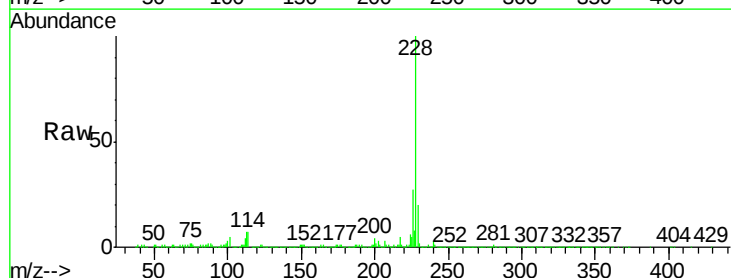
Tgt Ion:228 Resp: 2527327

Ion Ratio Lower Upper

228 100

226 26.9 21.3 31.9

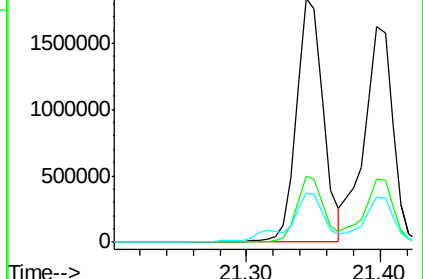
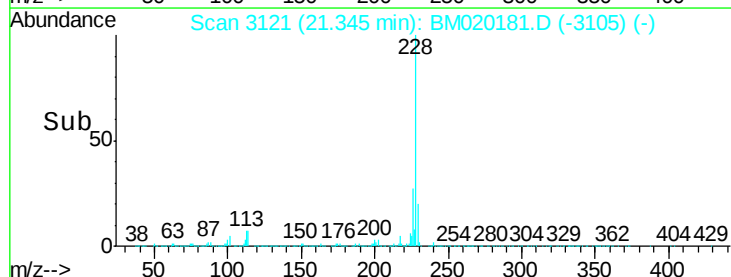
229 20.3 15.5 23.3

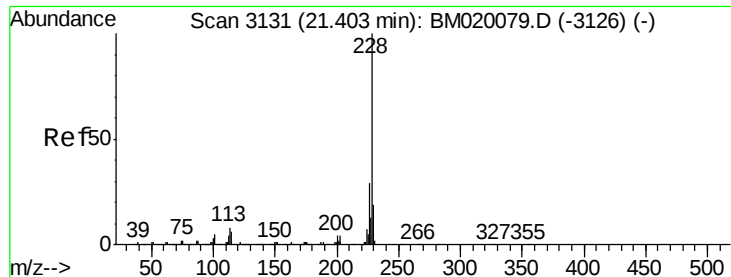


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 48.561 ng

RT: 21.40 min Scan# 3130

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

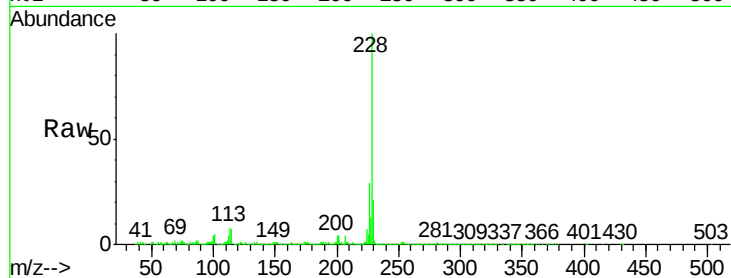
Tot Ion:228 Resp: 2404878

Ion Ratio Lower Upper

228 100

226 29.2 23.0 34.6

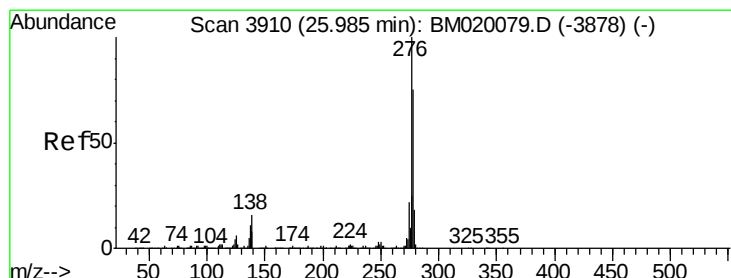
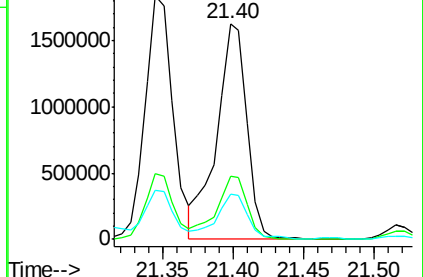
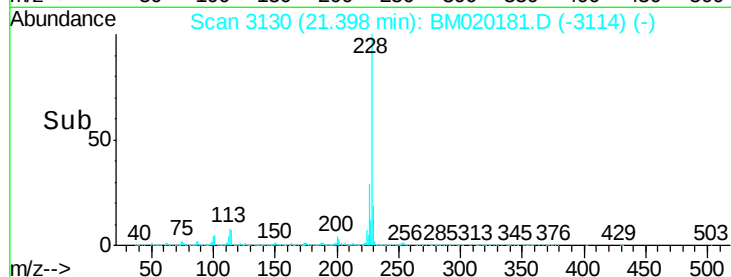
229 21.0 15.5 23.3



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 25.945 ng

RT: 25.98 min Scan# 3909

Delta R.T. -0.01 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

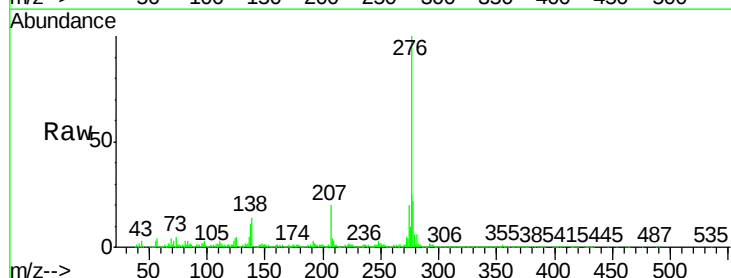
Tgt Ion:276 Resp: 1528296

Ion Ratio Lower Upper

276 100

138 13.6 0.0 0.0#

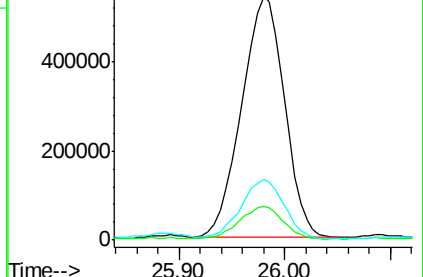
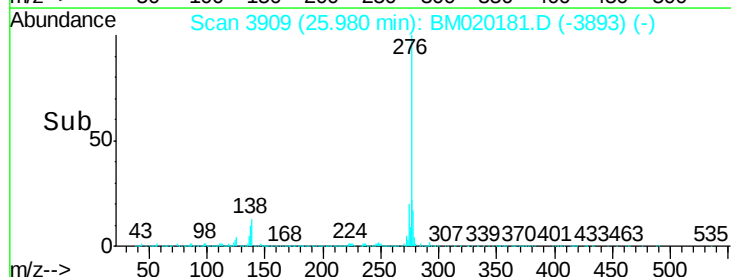
277 25.0 0.0 0.0#

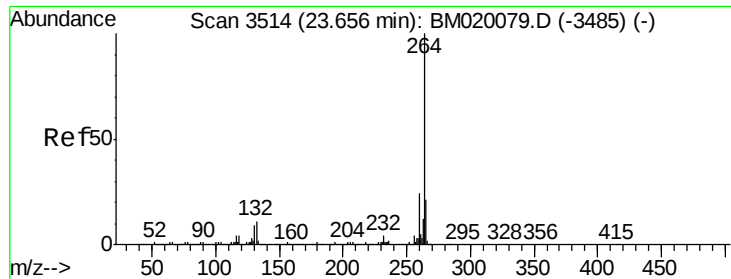


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

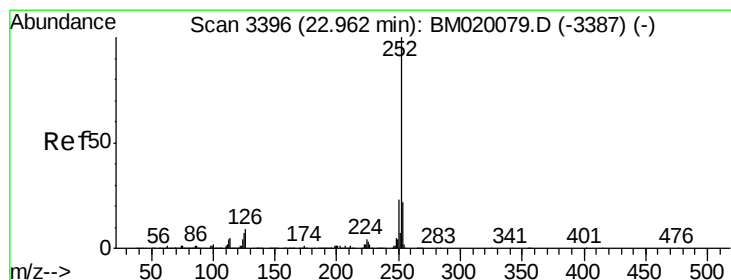
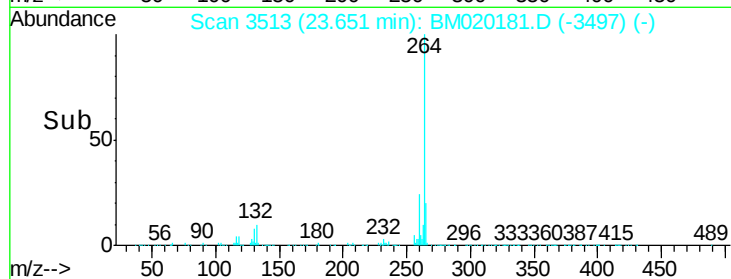
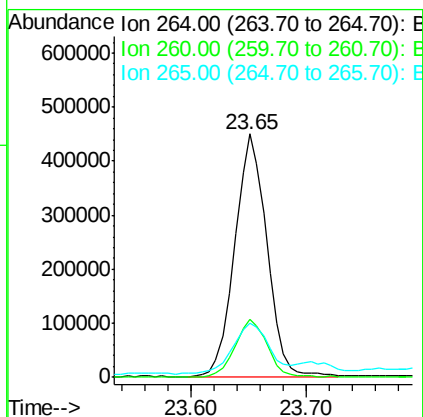
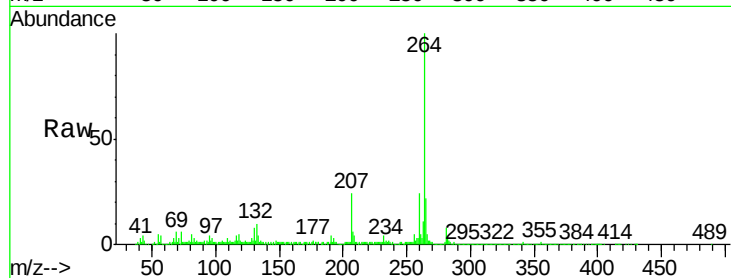




#87
 Pervlene-d12
 Concen: 20.000 ng
 RT: 23.65 min Scan# 3513
 Delta R.T. -0.01 min
 Lab File: BM020181.D
 Acq: 08 May 2019 00:57

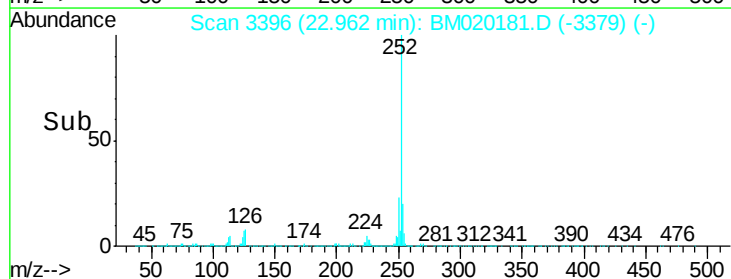
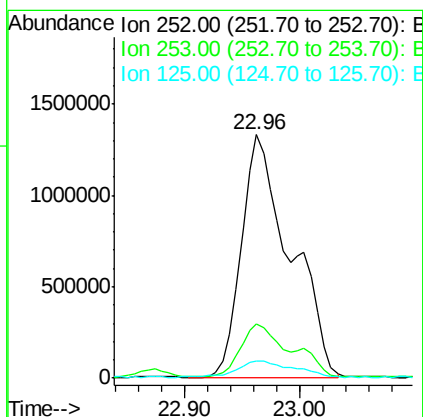
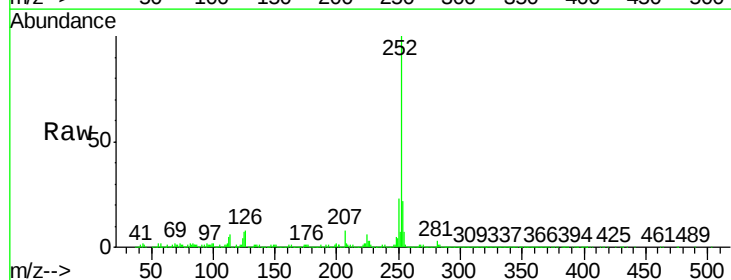
Instrument :
 BNA_M
 ClientSampleId :
 P-3-OW(0-10)

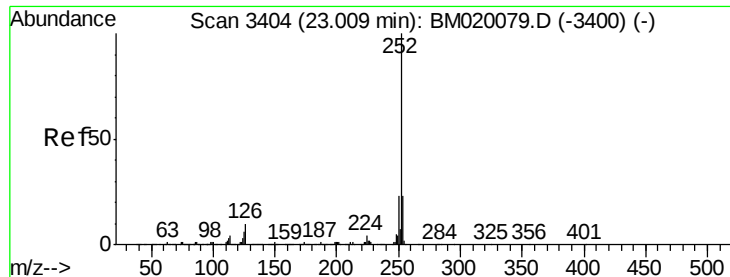
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	22.1	16.9	25.3



#88
 Benzo(b)fluoranthene
 Concen: 68.408 ng
 RT: 22.96 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: BM020181.D
 Acq: 08 May 2019 00:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	7.2	5.4	8.2





#89

Benzo(k)fluoranthene

Concen: 74.986 ng

RT: 22.96 min Scan# 3396

Delta R.T. -0.05 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

Instrument :

BNA_M

ClientSampleId :

P-3-OW(0-10)

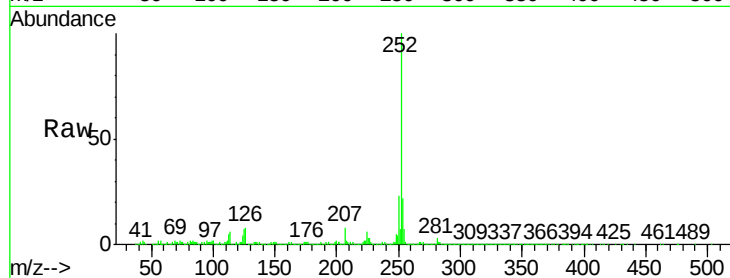
Tot Ion:252 Resp: 3897924

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.8

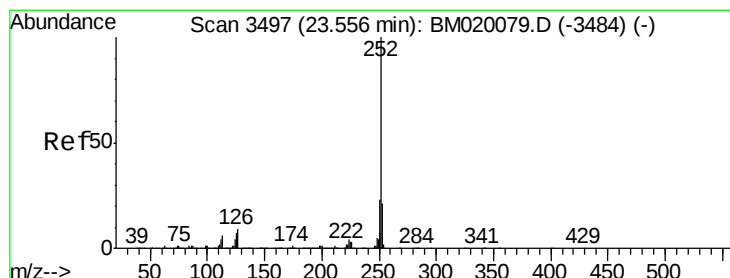
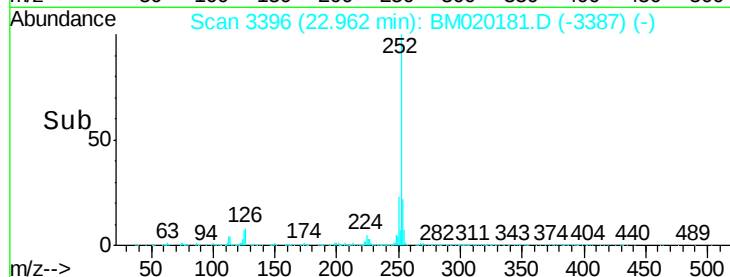
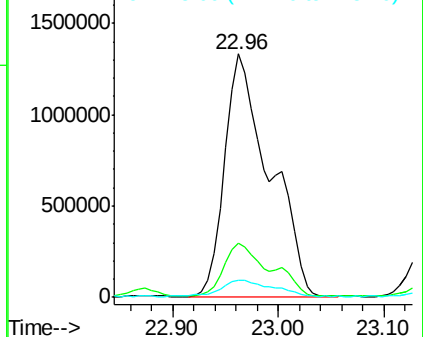
125 7.2 5.4 8.0



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



#90

Benzo(a)pyrene

Concen: 42.541 ng

RT: 23.56 min Scan# 3497

Delta R.T. 0.00 min

Lab File: BM020181.D

Acq: 08 May 2019 00:57

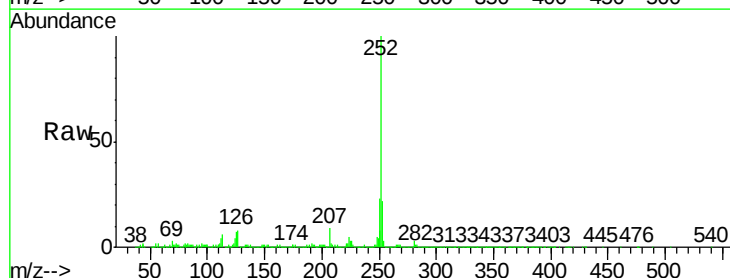
Tgt Ion:252 Resp: 2202016

Ion Ratio Lower Upper

252 100

253 21.9 17.0 25.6

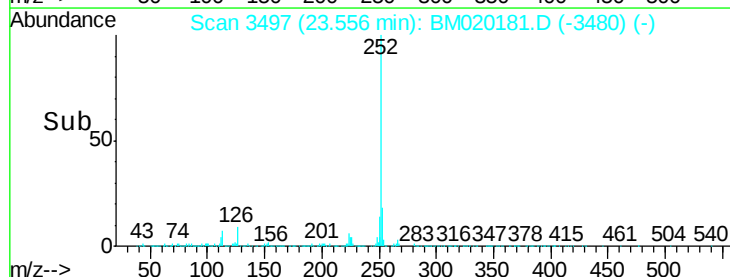
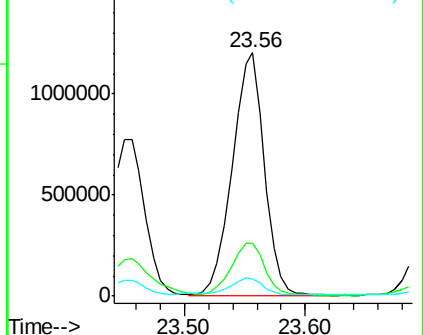
125 7.0 5.5 8.3

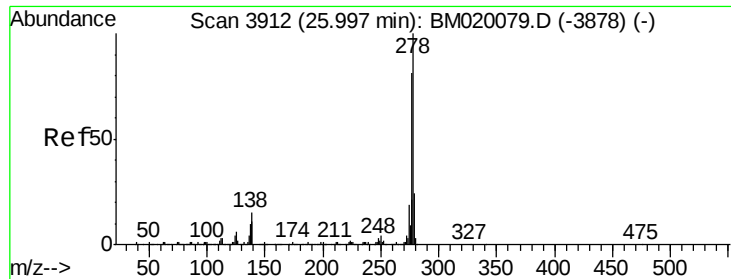


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

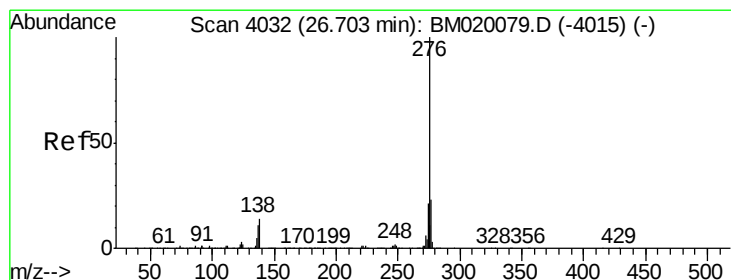
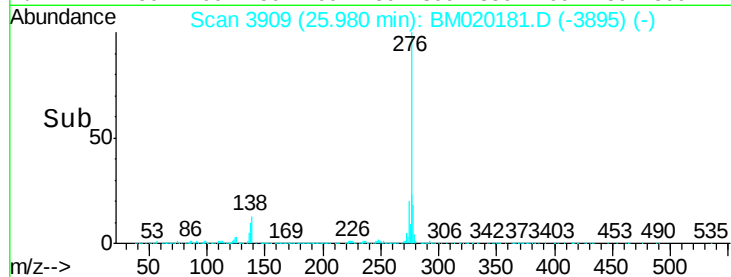
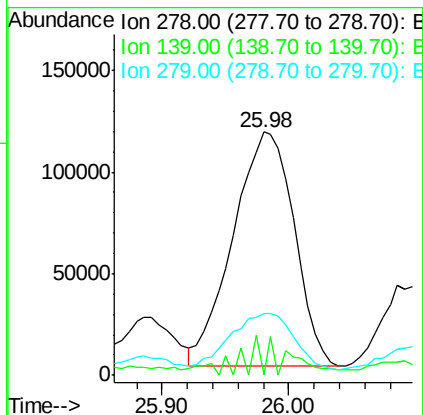
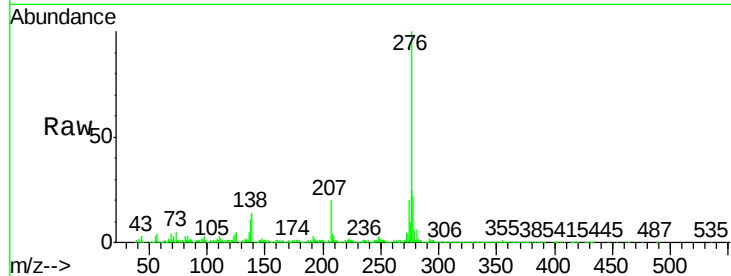




#91
Dibenzo(a,h)anthracene
Concen: 7.170 ng
RT: 25.98 min Scan# 3909
Delta R.T. -0.02 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Instrument :
BNA_M
ClientSampleId :
P-3-OW(0-10)

Tot Ion:278 Resp: 385942
Ion Ratio Lower Upper
278 100
139 0.0 8.6 13.0#
279 25.6 18.8 28.2



#92
Benzo(g,h,i)perylene
Concen: 29.559 ng
RT: 26.70 min Scan# 4031
Delta R.T. -0.01 min
Lab File: BM020181.D
Acq: 08 May 2019 00:57

Tgt Ion:276 Resp: 1510655
Ion Ratio Lower Upper
276 100
277 23.6 18.4 27.6
138 13.7 11.1 16.7

