

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
 Data File : BM010511.D
 Acq On : 11 Jun 2017 06:34
 Operator : SJ/MA
 Sample : I3521-10
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F5C58

Quant Time: Jun 12 09:06:02 2017
 Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jun 12 09:00:37 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.89	152	185062	20.00	ng/ul	0.00
18) Naphthalene-d8	10.72	136	686695	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.53	164	572230	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.29	188	1392102	20.00	ng/ul	0.02
75) Chrysene-d12	21.46	240	2350024	20.00	ng/ul	0.01
83) Perylene-d12	23.79	264	1827092	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.37	96	12223	2.71	ng/uL	0.01
5) Phenol-d5	7.08	99	182052	12.98	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.23	67	109219	13.86	ng/ul	0.00
9) 2-Chlorophenol-d4	7.43	132	156799	14.03	ng/ul	0.00
13) 4-Methylphenol-d8	8.61	113	151006	13.35	ng/ul	0.00
19) Nitrobenzene-d5	9.07	128	76863	15.28	ng/ul	0.00
22) 2-Nitrophenol-d4	9.79	143	95152	16.33	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.33	165	190519	15.92	ng/ul	0.00
29) 4-Chloroaniline-d4	10.86	131	370397	32.07	ng/ul	0.00
43) Dimethylphthalate-d6	13.95	166	755286	15.89	ng/ul	0.00
46) Acenaphthylene-d8	14.23	160	830768	14.98	ng/ul	0.00
51) 4-Nitrophenol-d4	14.78	143	89834	12.63	ng/ul	0.00
57) Fluorene-d10	15.53	176	659809	15.79	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.69	200	125667	12.74	ng/ul	0.04
70) Anthracene-d10	17.40	188	1443370	21.31	ng/ul	0.03
76) Pyrene-d10	19.68	212	1925328	19.81	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.64	264	1509822	17.75	ng/ul	0.01

Target Compounds

					Qvalue	
4) Benzaldehyde	7.09	77	16159	1.714	ng/ul#	1
17) Hexachloroethane	8.97	117	22326	4.383	ng/ul#	1
40) 1,1'-Biphenyl	13.37	154	10836254	233.434	ng/ul	99
44) Dimethylphthalate	14.00	163	614542	13.143	ng/ul	100
47) Acenaphthylene	14.26	152	983497	18.146	ng/ul#	89
48) 3-Nitroaniline	14.50	138	14746	1.786	ng/ul#	69
49) Acenaphthene	14.69	153	1484345	39.049	ng/ul#	26
52) 4-Nitrophenol	14.95	109	321721	33.002	ng/ul#	1
53) Dibenzofuran	14.84	168	463463	8.245	ng/ul#	56
54) 2,4-Dinitrotoluene	14.92	165	71318	5.667	ng/ul#	1
58) Fluorene	15.49	166	170690	3.702	ng/ul#	1
60) 4-Nitroaniline	15.60	138	890641	103.019	ng/ul#	1
64) N-Nitrosodiphenylamine	15.83	169	179107	4.414	ng/ul#	1
69) Phenanthrene	17.43	178	2918307	39.268	ng/ul	95
71) Anthracene	17.43	178	2918307	37.614	ng/ul#	94
72) Carbazole	17.71	167	9303864	141.678	ng/ul	98
74) Fluoranthene	19.49	202	251463	2.752	ng/ul	98
77) Pyrene	19.60	202	131815	1.088	ng/ul#	92
80) Benzo(a)anthracene	21.43	228	16472141	124.298	ng/ul#	66
82) Chrysene	21.49	228	14883936	124.245	ng/ul#	64
85) Benzo(b)fluoranthene	23.08	252	10850636	102.061	ng/ul	99
86) Benzo(k)fluoranthene	23.08	252	10850636	106.835	ng/ul	99
88) Benzo(a)pyrene	23.69	252	5988929	56.831	ng/ul	99

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010511.D
Acq On : 11 Jun 2017 06:34
Operator : SJ/MA
Sample : I3521-10
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
F5C58

Quant Time: Jun 12 09:06:02 2017
Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jun 12 09:00:37 2017
Response via : Initial Calibration

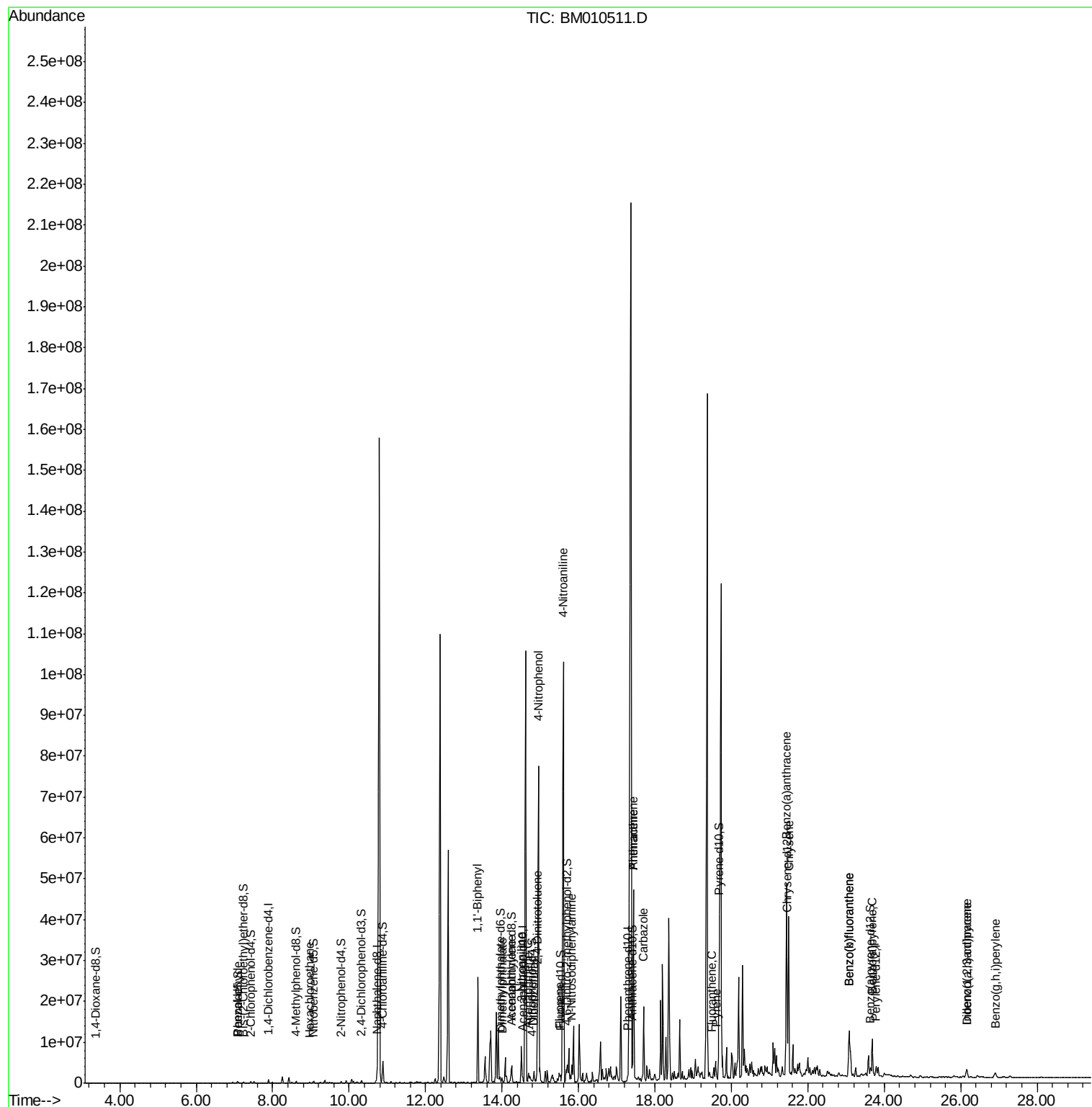
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	26.16	276	2017848	15.156	ng/ul	98
90) Dibenzo(a,h)anthracene	26.16	278	568207	4.955	ng/ul#	89
91) Benzo(g,h,i)perylene	26.90	276	1345354	12.265	ng/ul	96

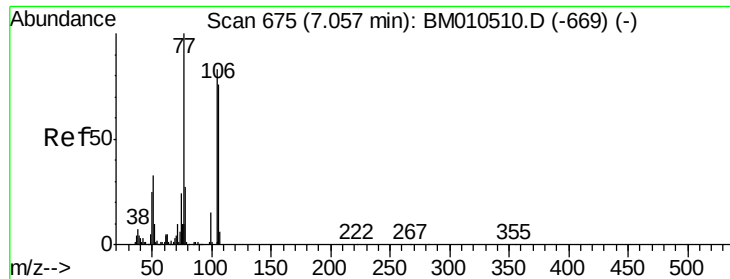
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010511.D
Acq On : 11 Jun 2017 06:34
Operator : SJ/MA
Sample : I3521-10
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
F5C58

Quant Time: Jun 12 09:06:02 2017
Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jun 12 09:00:37 2017
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 1.714 ng/ul

RT: 7.09 min Scan# 681

Delta R.T. 0.04 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

F5C58

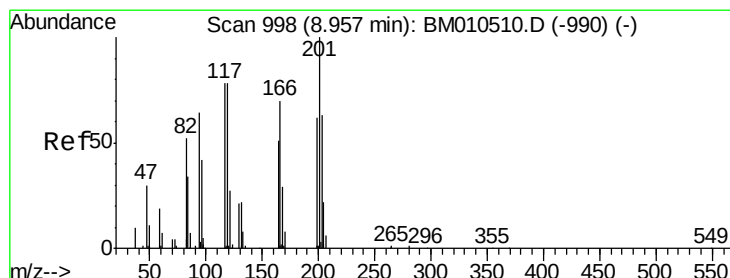
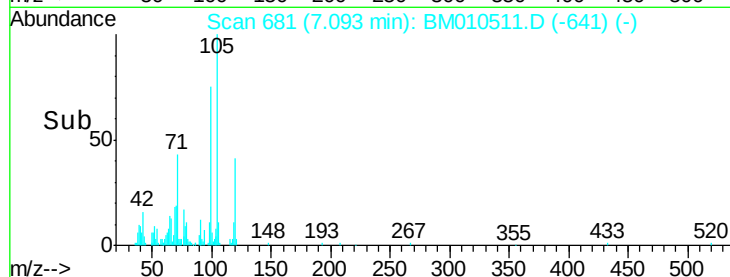
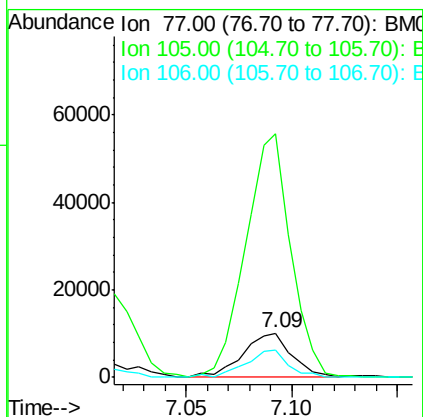
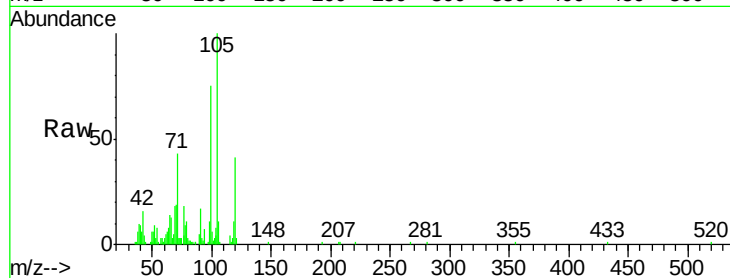
Tgt Ion: 77 Resp: 16159

Ion Ratio Lower Upper

77 100

105 551.0 66.1 99.1#

106 63.0 67.8 101.6#



#17

Hexachloroethane

Concen: 4.383 ng/ul

RT: 8.97 min Scan# 1001

Delta R.T. 0.02 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

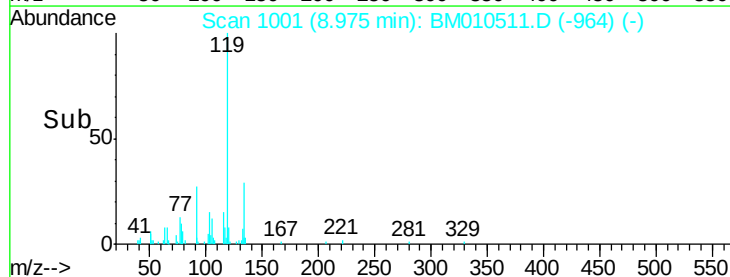
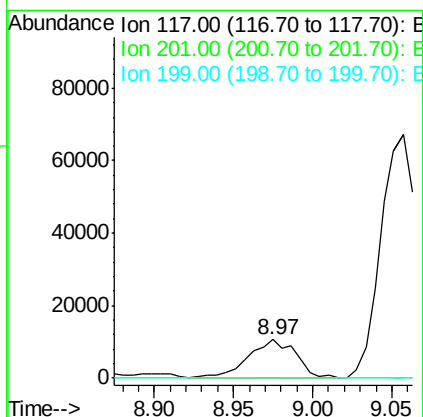
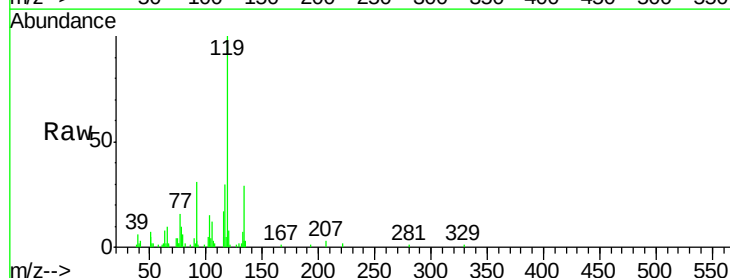
Tgt Ion: 117 Resp: 22326

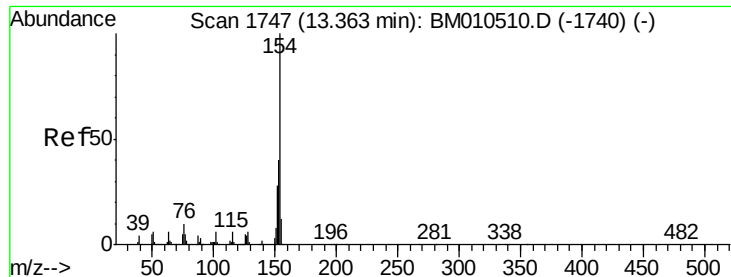
Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

199 0.0 67.8 101.6#

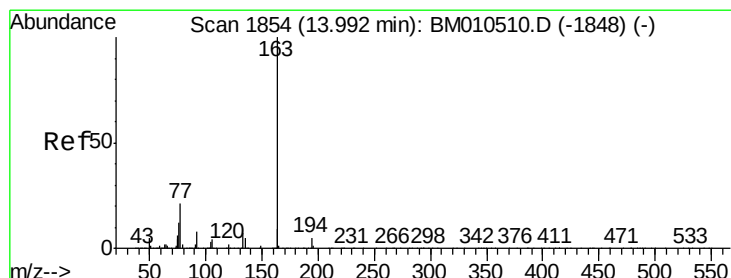
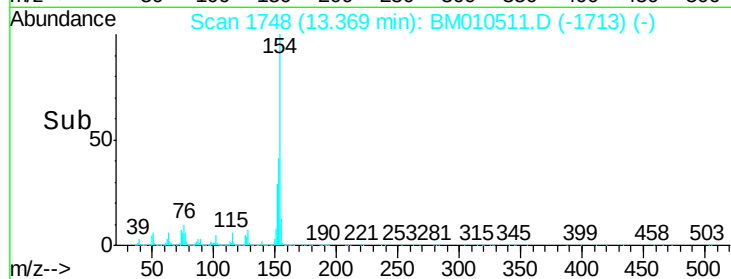
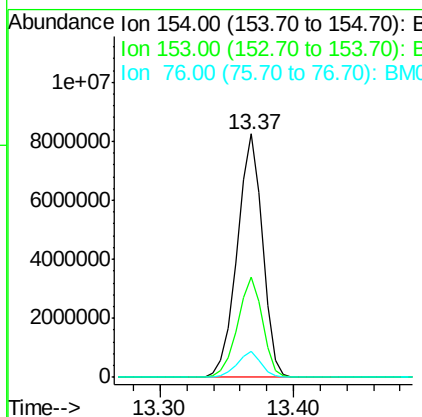
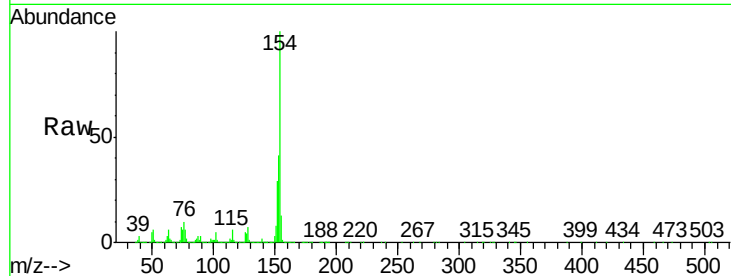




#40
 1,1'-Biphenyl
 Concen: 233.434 ng/ul
 RT: 13.37 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: BM010511.D
 Acq: 11 Jun 2017 06:34

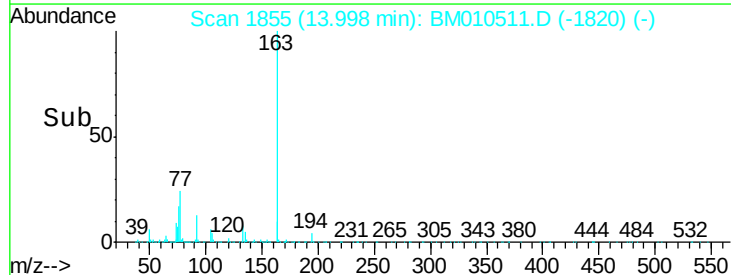
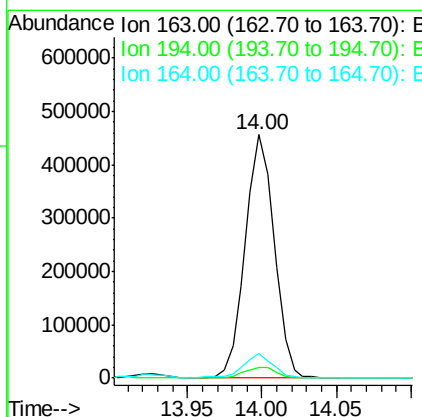
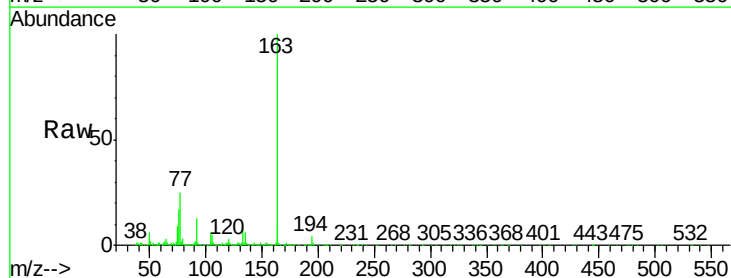
Instrument :
 BNA_M
 ClientSampleId :
 F5C58

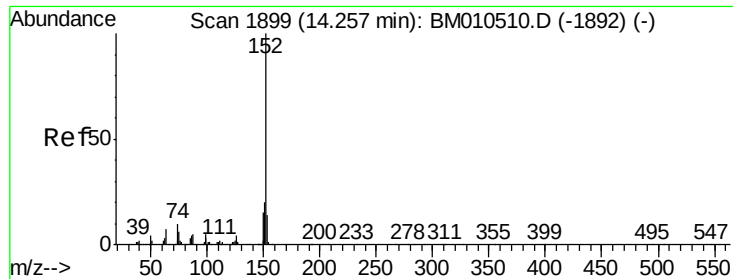
Tgt Ion:154 Resp:10836254
 Ion Ratio Lower Upper
 154 100
 153 41.3 32.6 48.8
 76 10.5 8.5 12.7



#44
 Dimethylphthalate
 Concen: 13.143 ng/ul
 RT: 14.00 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: BM010511.D
 Acq: 11 Jun 2017 06:34

Tgt Ion:163 Resp: 614542
 Ion Ratio Lower Upper
 163 100
 194 4.4 3.5 5.3
 164 10.1 8.2 12.4





#47

Acenaphthylene

Concen: 18.146 ng/ul

RT: 14.26 min Scan# 1899

Delta R.T. 0.00 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

F5C58

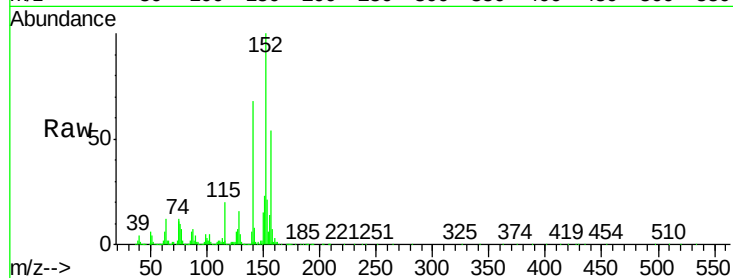
Tgt Ion:152 Resp: 983497

Ion Ratio Lower Upper

152 100

151 22.6 16.3 24.5

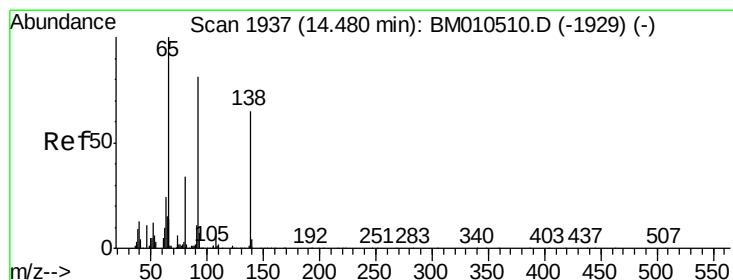
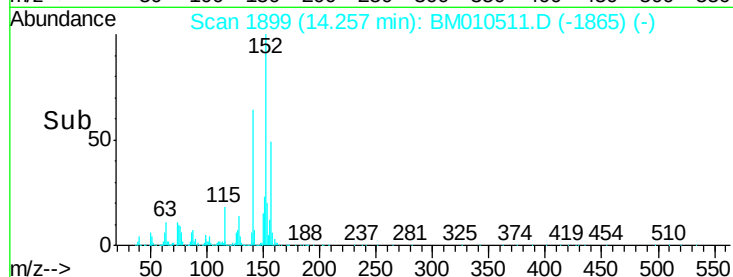
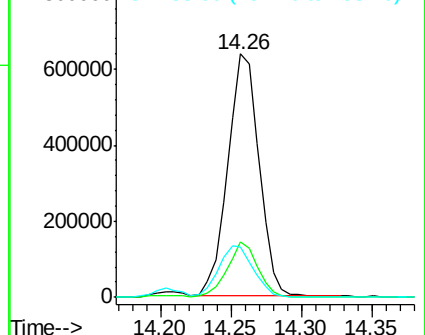
153 20.8 10.2 15.4#



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



#48

3-Nitroaniline

Concen: 1.786 ng/ul

RT: 14.50 min Scan# 1941

Delta R.T. 0.02 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

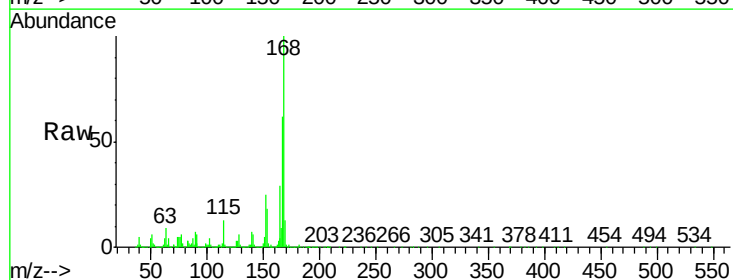
Tgt Ion:138 Resp: 14746

Ion Ratio Lower Upper

138 100

108 10.0 9.9 14.9

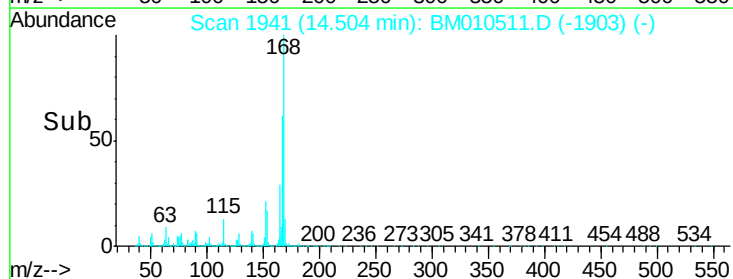
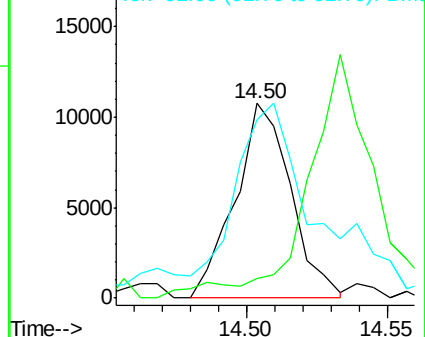
92 91.9 105.0 157.4#

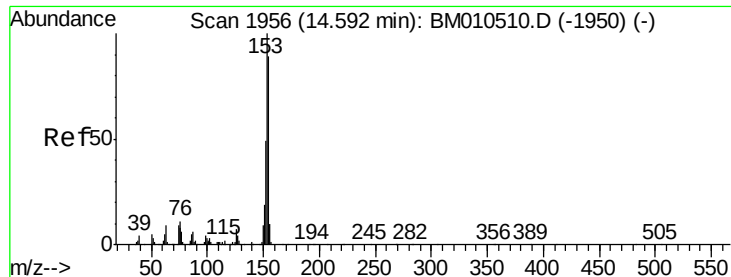


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BM





#49

Acenaphthene

Concen: 39.049 ng/ul

RT: 14.69 min Scan# 1973

Delta R.T. 0.10 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampled :

F5C58

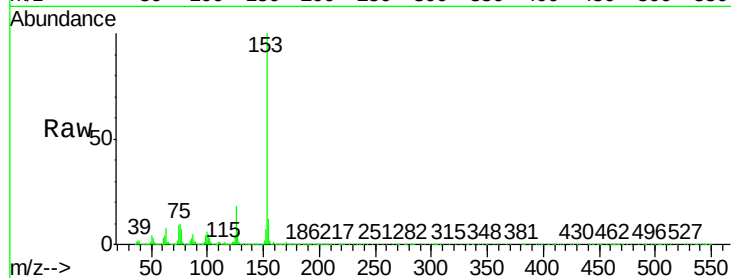
Tgt Ion:153 Resp: 1484345

Ion Ratio Lower Upper

153 100

152 6.7 37.6 56.4#

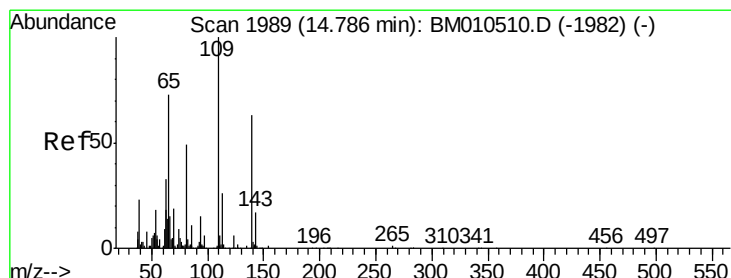
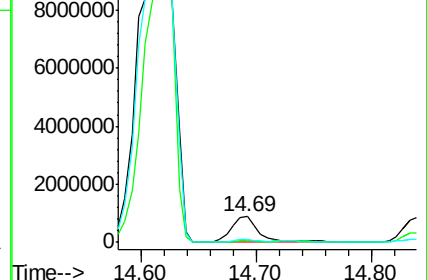
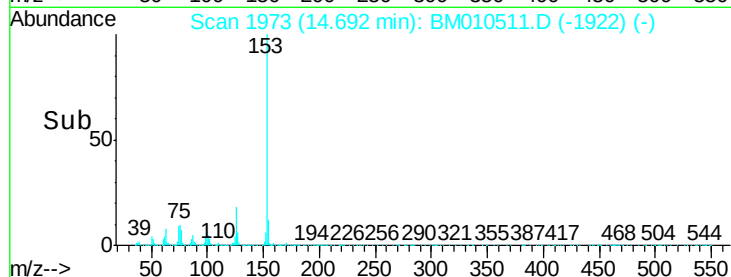
154 12.5 70.4 105.6#



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#52

4-Nitrophenol

Concen: 33.002 ng/ul

RT: 14.95 min Scan# 2017

Delta R.T. 0.16 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

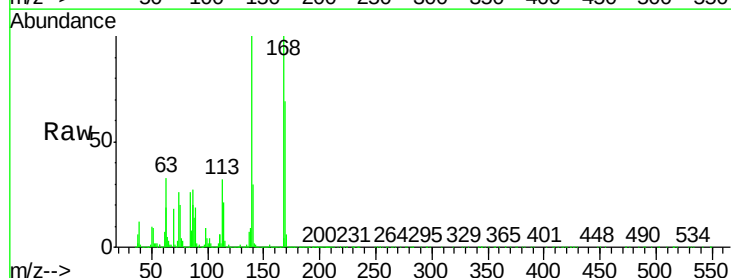
Tgt Ion:109 Resp: 321721

Ion Ratio Lower Upper

109 100

139 4008.1 66.6 100.0#

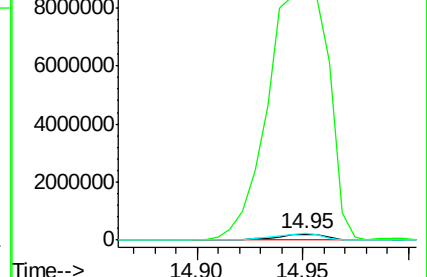
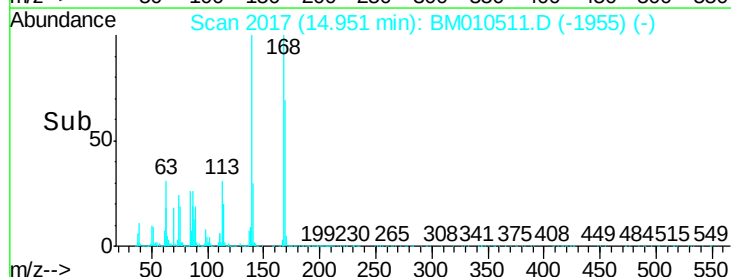
65 121.0 78.3 117.5#

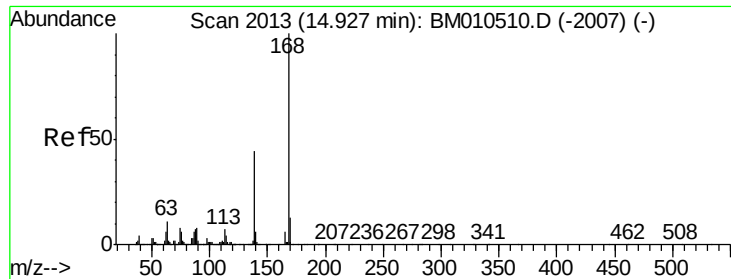


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BM0





#53

Dibenzofuran

Concen: 8.245 ng/ul

RT: 14.84 min Scan# 1998

Delta R.T. -0.09 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

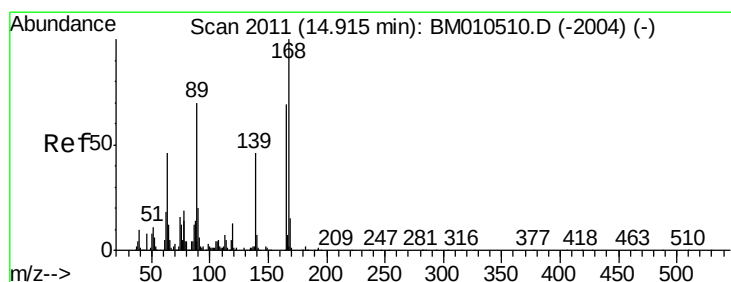
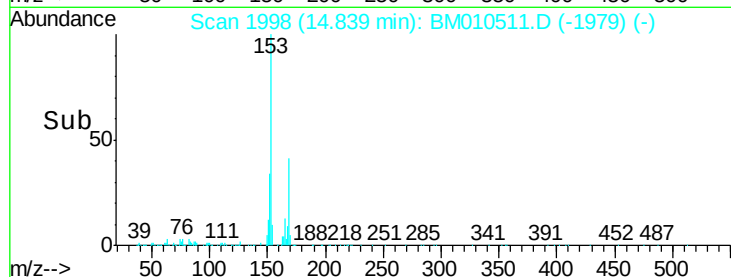
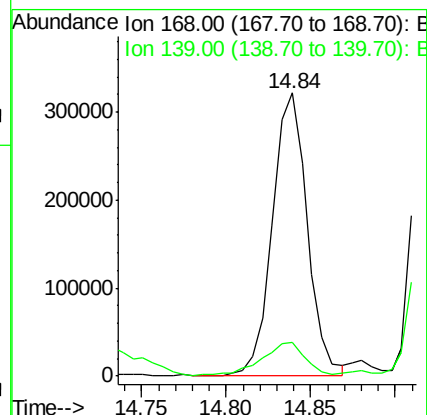
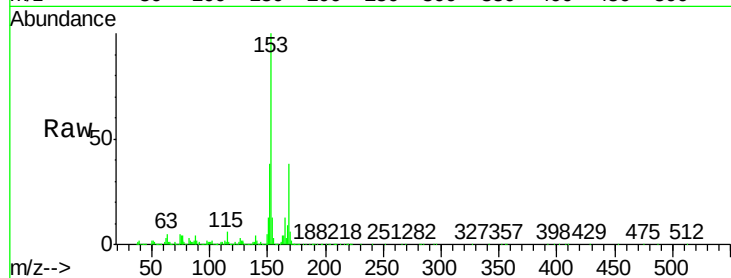
F5C58

Tgt Ion:168 Resp: 463463

Ion Ratio Lower Upper

168 100

139 11.7 30.8 46.2#



#54

2,4-Dinitrotoluene

Concen: 5.667 ng/ul

RT: 14.92 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

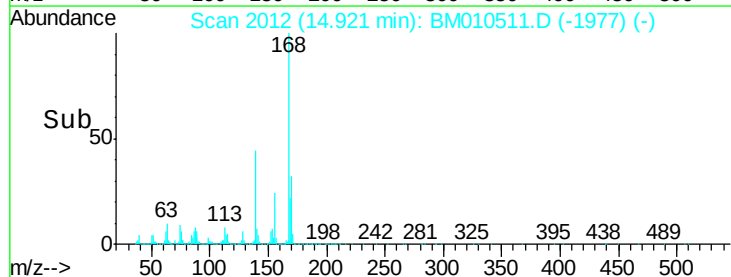
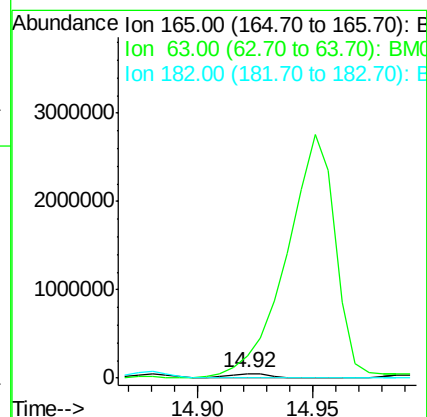
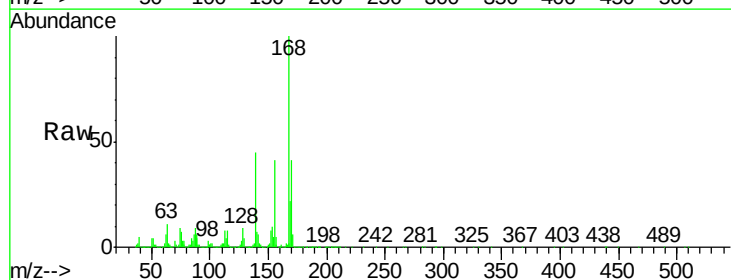
Tgt Ion:165 Resp: 71318

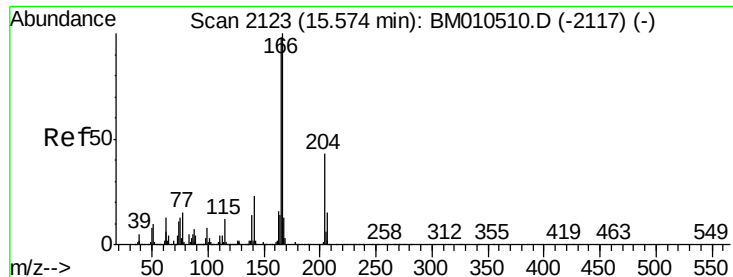
Ion Ratio Lower Upper

165 100

63 514.4 45.8 68.8#

182 6.9 2.6 4.0#





#58

Fluorene

Concen: 3.702 ng/ul

RT: 15.49 min Scan# 2109

Delta R.T. -0.08 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

F5C58

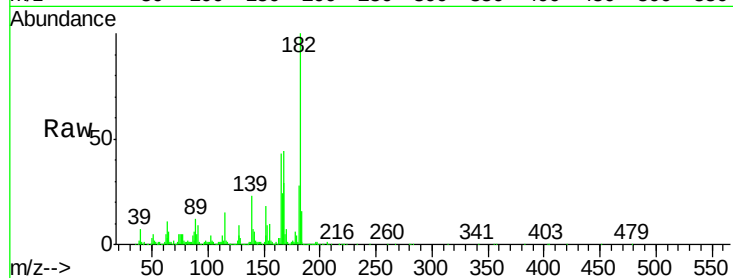
Tgt Ion:166 Resp: 170690

Ion Ratio Lower Upper

166 100

165 176.9 77.9 116.9#

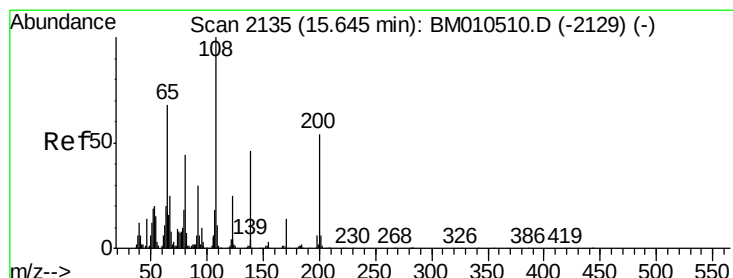
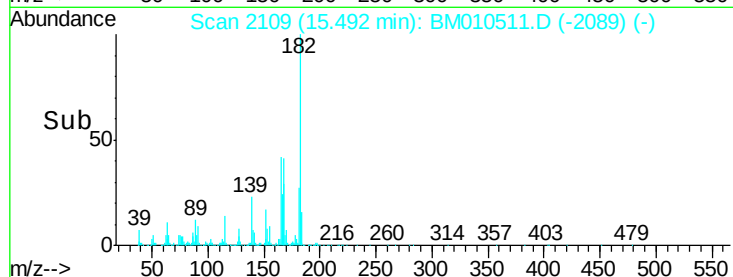
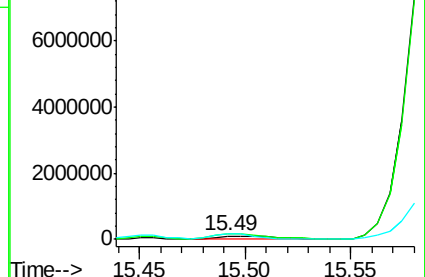
167 180.5 10.6 16.0#



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



#60

4-Nitroaniline

Concen: 103.019 ng/ul

RT: 15.60 min Scan# 2128

Delta R.T. -0.04 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

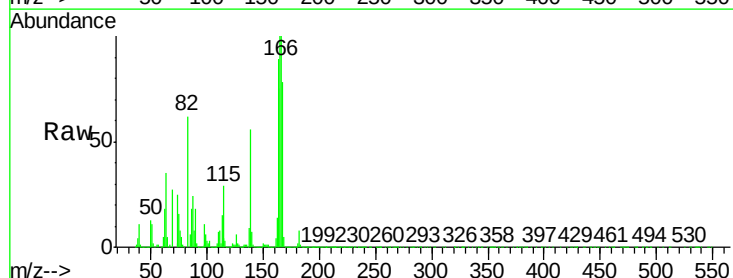
Tgt Ion:138 Resp: 890641

Ion Ratio Lower Upper

138 100

92 2.0 52.7 79.1#

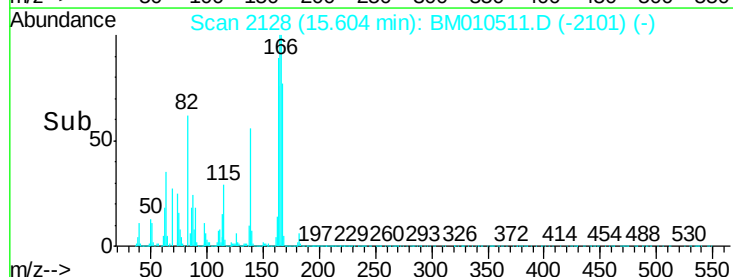
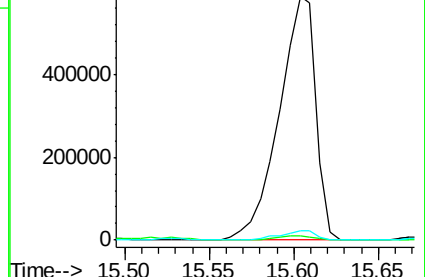
108 3.8 140.4 210.6#

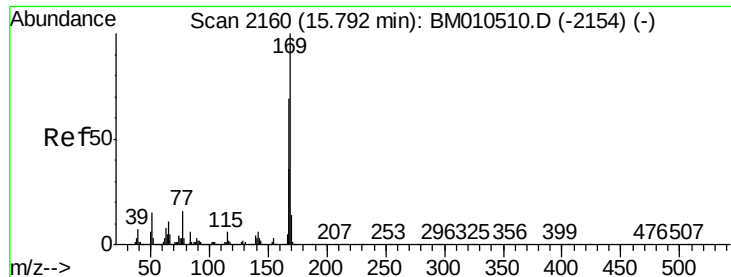


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM0

Ion 108.00 (107.70 to 108.70): E





#64

N-Nitrosodiphenylamine

Concen: 4.414 ng/ul

RT: 15.83 min Scan# 2167

Delta R.T. 0.04 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

F5C58

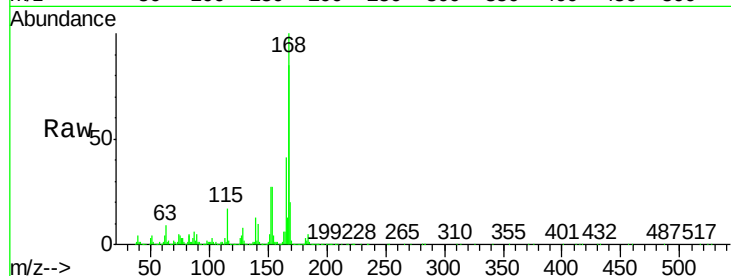
Tgt Ion:169 Resp: 179107

Ion Ratio Lower Upper

169 100

168 493.0 54.0 81.0#

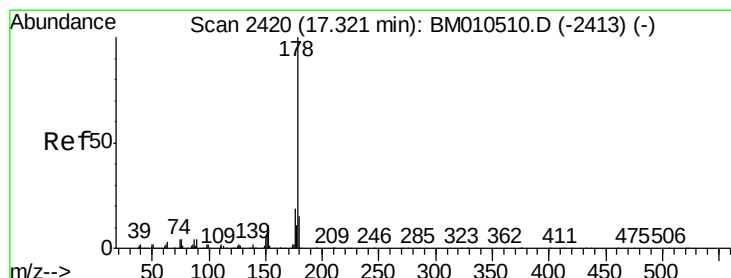
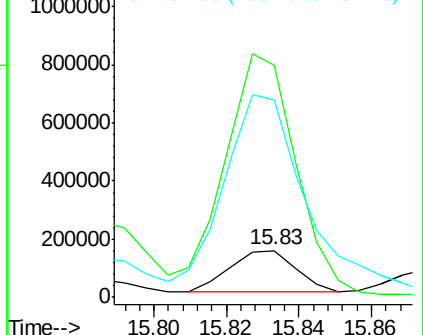
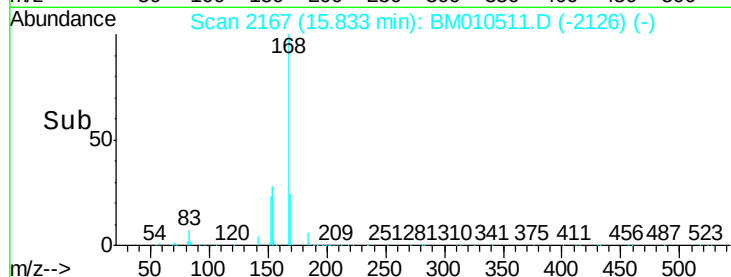
167 418.7 29.1 43.7#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 39.268 ng/ul

RT: 17.43 min Scan# 2438

Delta R.T. 0.11 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

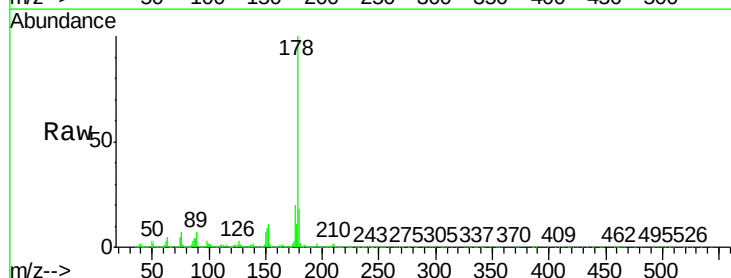
Tgt Ion:178 Resp: 2918307

Ion Ratio Lower Upper

178 100

179 18.5 12.6 19.0

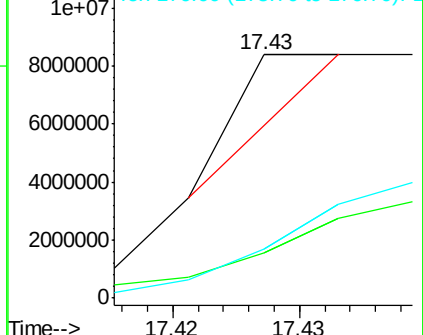
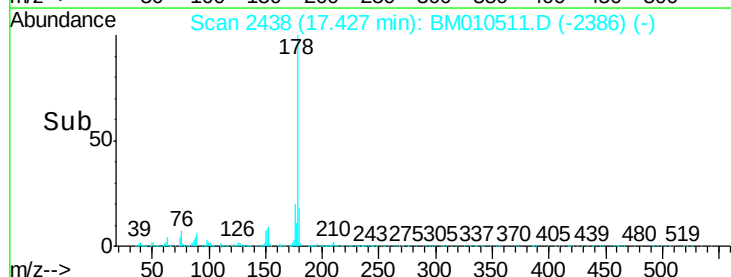
176 20.0 14.9 22.3

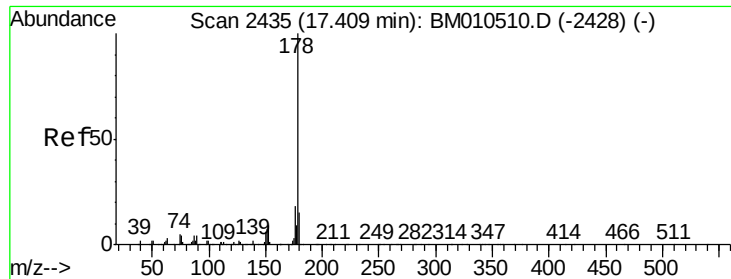


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 37.614 ng/ul

RT: 17.43 min Scan# 2438

Delta R.T. 0.02 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampled :

F5C58

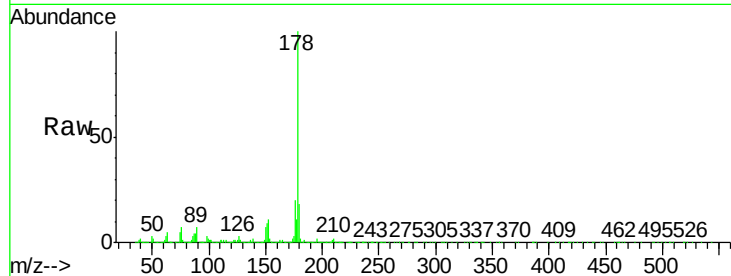
Tgt Ion:178 Resp: 2918307

Ion Ratio Lower Upper

178 100

179 18.5 11.7 17.5#

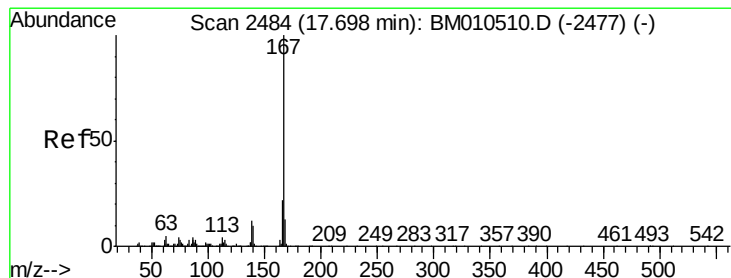
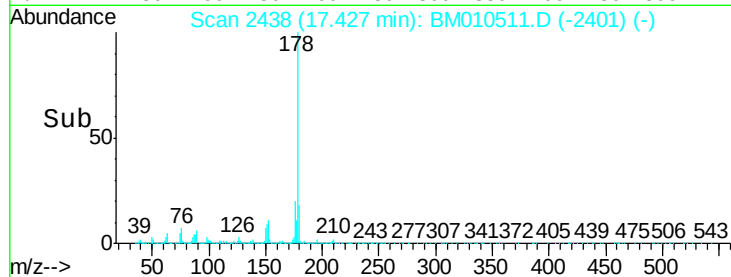
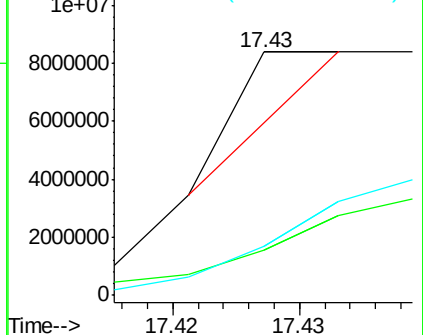
176 20.0 14.6 21.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 141.678 ng/ul

RT: 17.71 min Scan# 2486

Delta R.T. 0.01 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

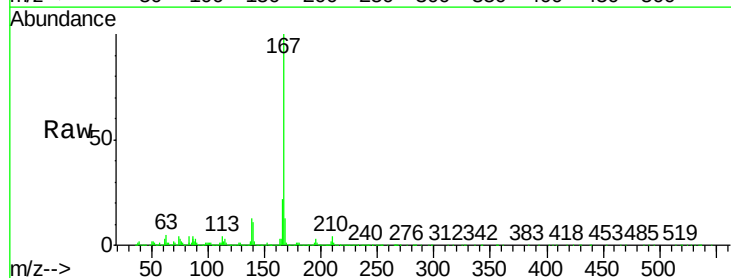
Tgt Ion:167 Resp: 9303864

Ion Ratio Lower Upper

167 100

166 22.3 17.1 25.7

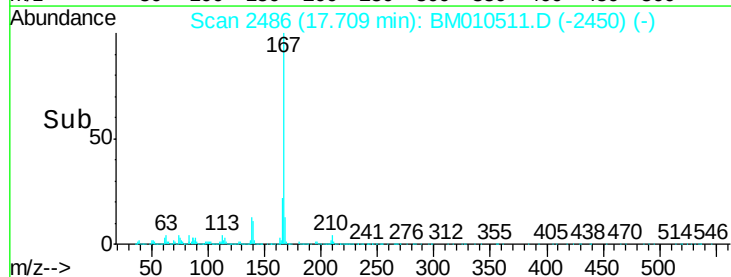
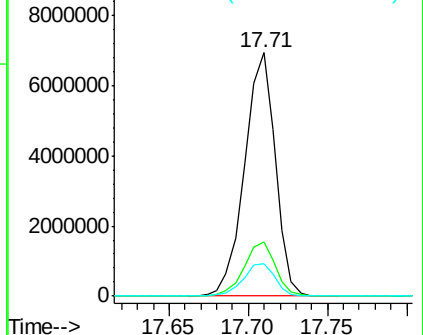
139 13.3 10.0 15.0

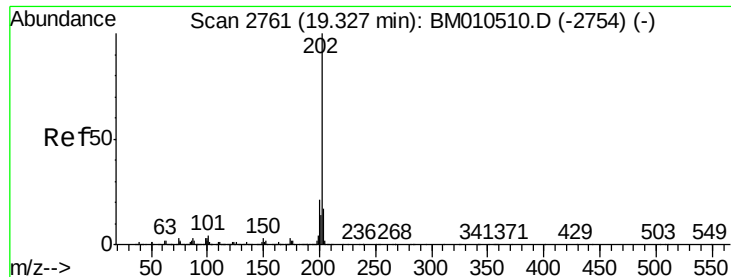


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 2.752 ng/ul

RT: 19.49 min Scan# 2788

Delta R.T. 0.16 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

F5C58

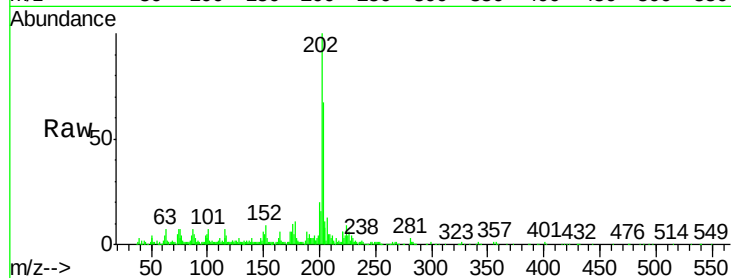
Tgt Ion:202 Resp: 251463

Ion Ratio Lower Upper

202 100

101 6.8 4.6 7.0

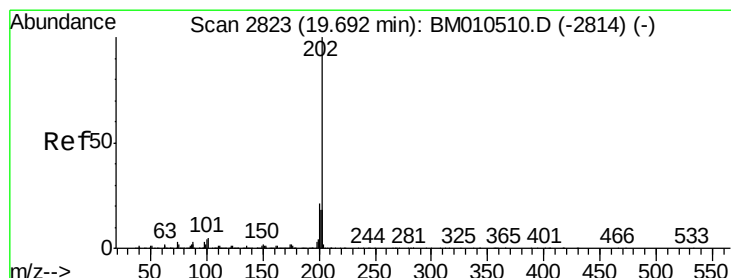
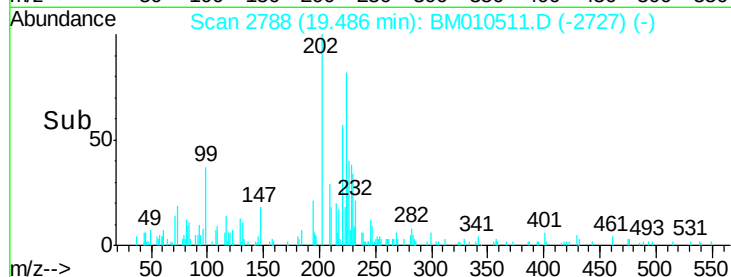
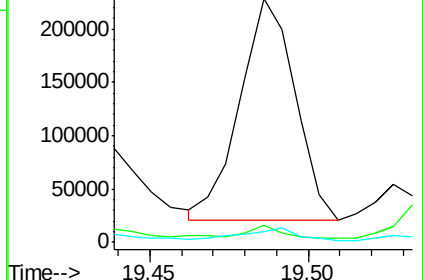
100 4.6 3.4 5.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 1.088 ng/ul

RT: 19.60 min Scan# 2808

Delta R.T. -0.09 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

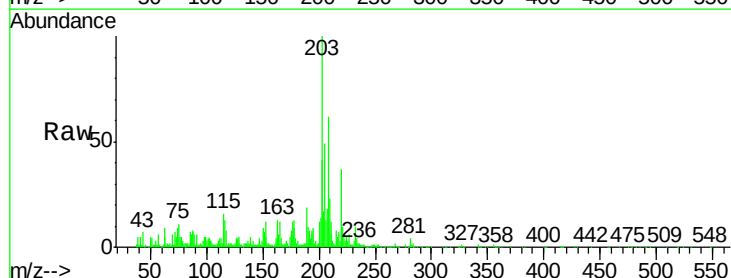
Tgt Ion:202 Resp: 131815

Ion Ratio Lower Upper

202 100

101 11.0 5.1 7.7#

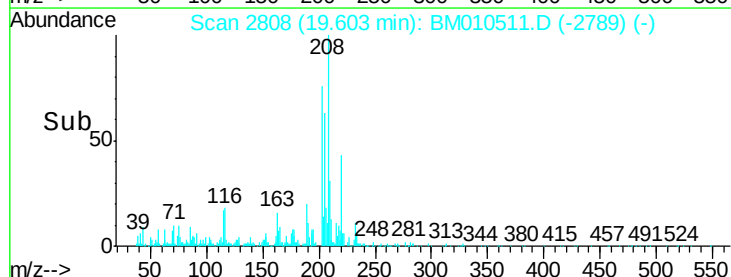
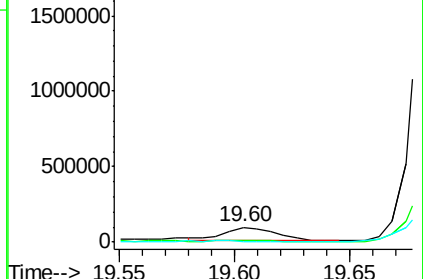
100 6.6 4.9 7.3

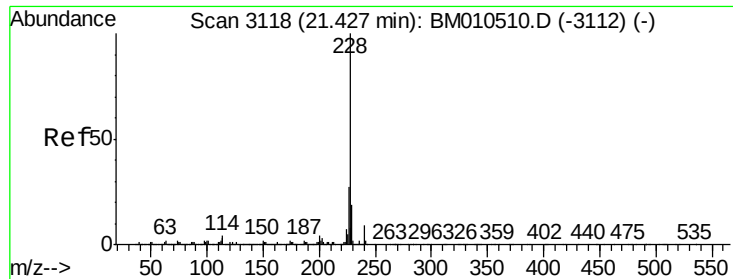


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 124.298 ng/ul

RT: 21.43 min Scan# 3119

Delta R.T. 0.01 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampled :

F5C58

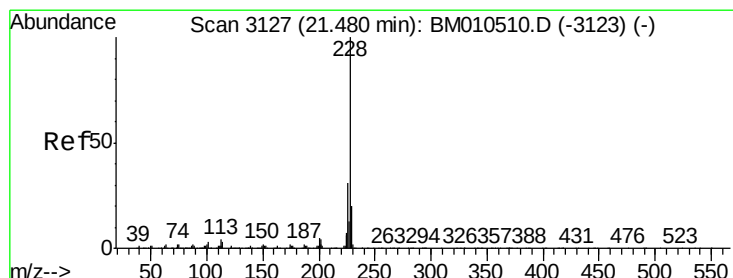
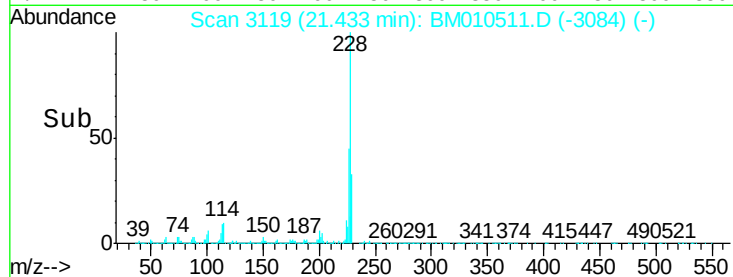
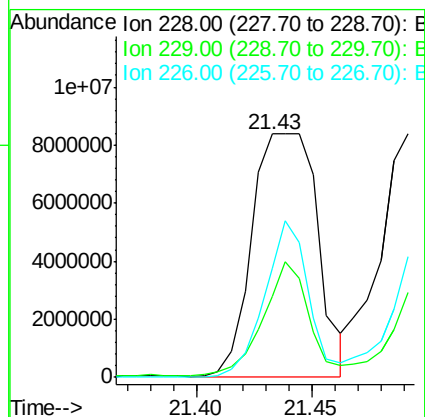
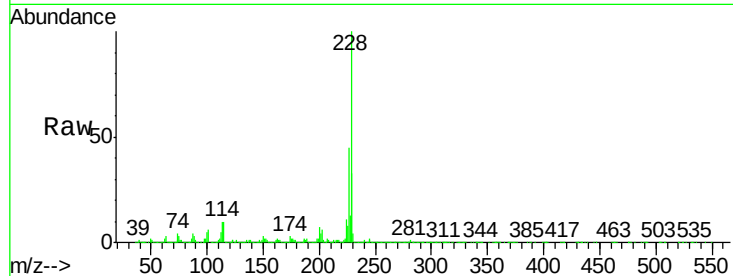
Tgt Ion:228 Resp:16472141

Ion Ratio Lower Upper

228 100

229 33.4 15.4 23.0#

226 44.9 21.4 32.0#



#82

Chrysene

Concen: 124.245 ng/ul

RT: 21.49 min Scan# 3129

Delta R.T. 0.01 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

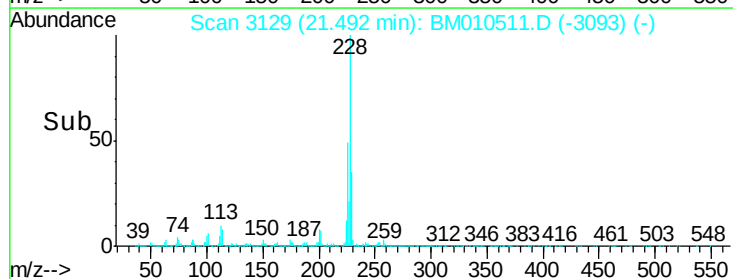
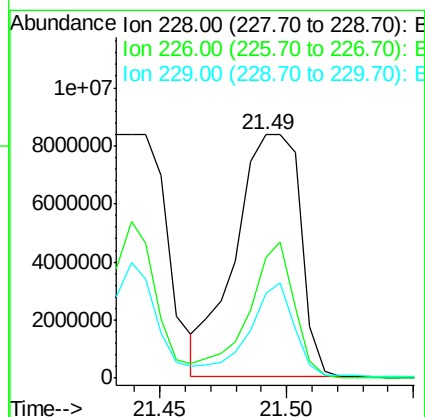
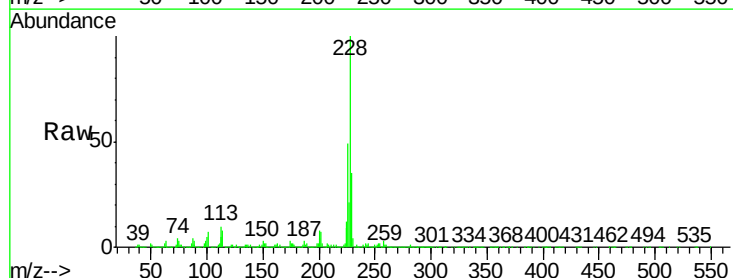
Tgt Ion:228 Resp:14883936

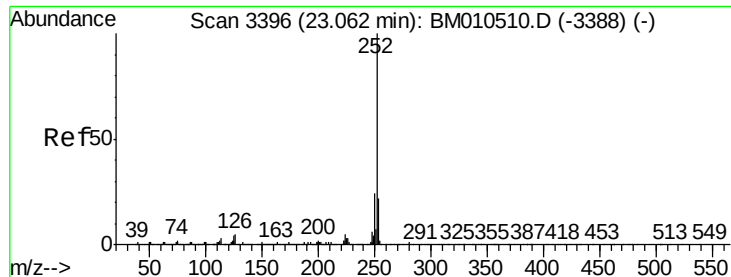
Ion Ratio Lower Upper

228 100

226 49.4 23.4 35.2#

229 35.0 15.5 23.3#





#85

Benzo(b)fluoranthene

Concen: 102.061 ng/ul

RT: 23.08 min Scan# 3399

Delta R.T. 0.02 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

F5C58

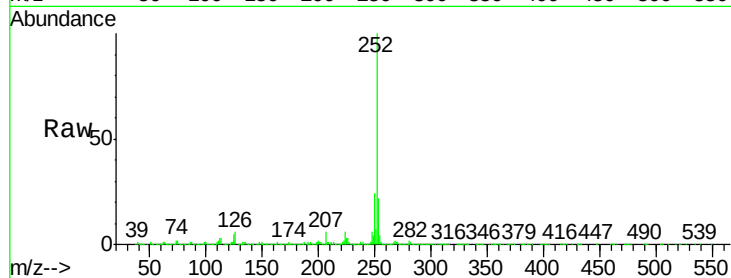
Tgt Ion:252 Resp:10850636

Ion Ratio Lower Upper

252 100

253 21.8 17.9 26.9

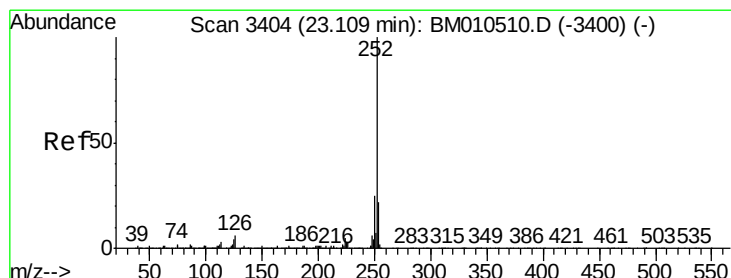
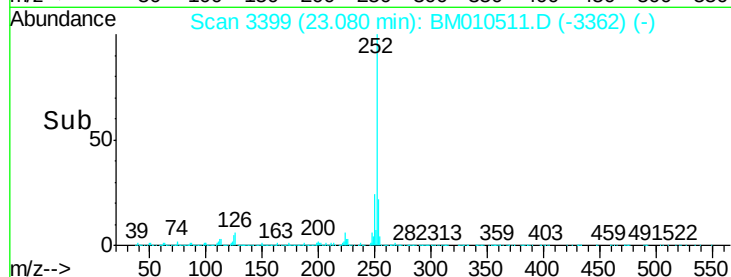
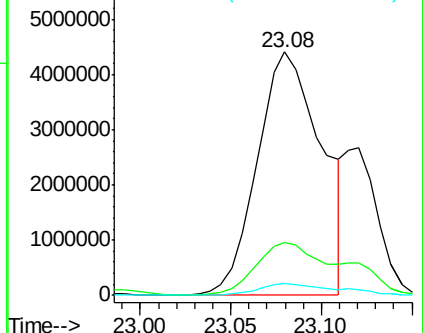
125 4.7 3.6 5.4



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



#86

Benzo(k)fluoranthene

Concen: 106.835 ng/ul

RT: 23.08 min Scan# 3399

Delta R.T. -0.03 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

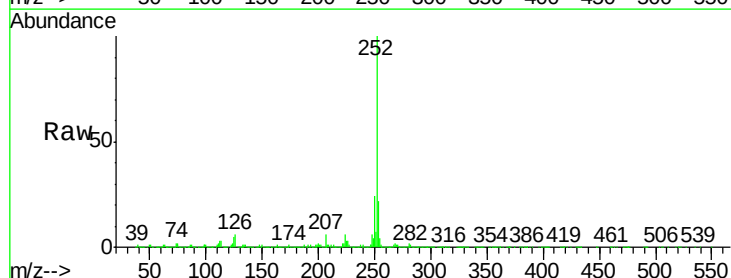
Tgt Ion:252 Resp:10850636

Ion Ratio Lower Upper

252 100

253 21.8 17.1 25.7

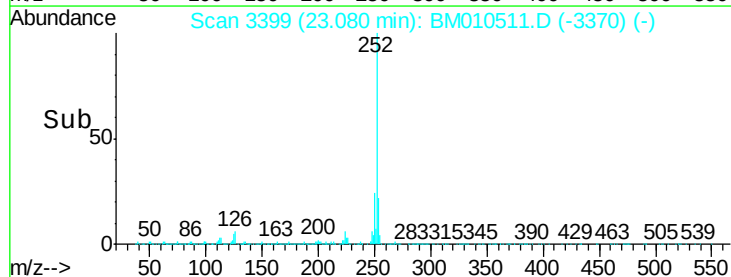
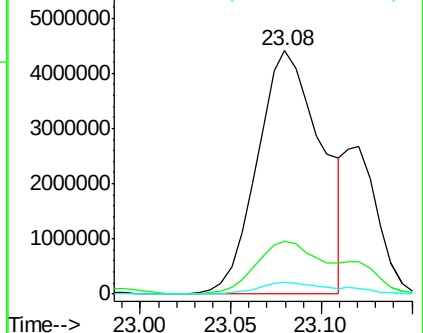
125 4.7 3.4 5.2

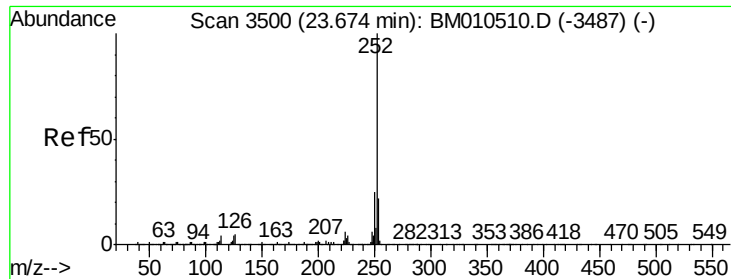


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 56.831 ng/ul

RT: 23.69 min Scan# 3502

Delta R.T. 0.01 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

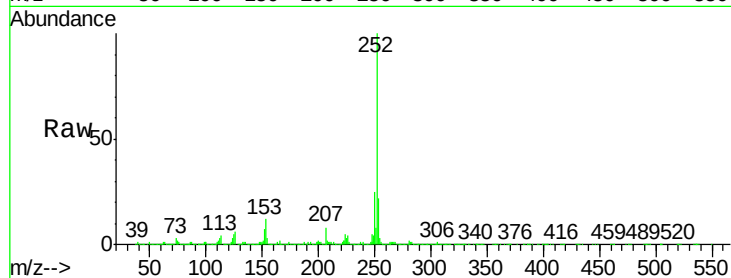
BNA_M

ClientSampleId :

F5C58

Tgt Ion:252 Resp: 5988929

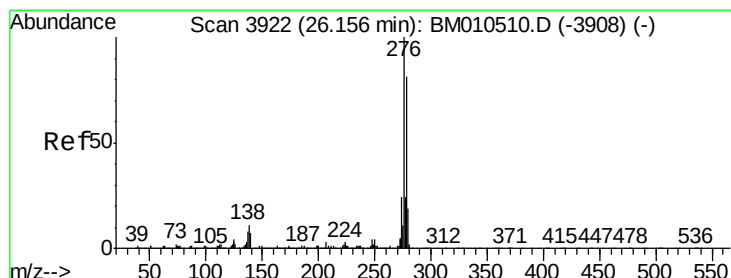
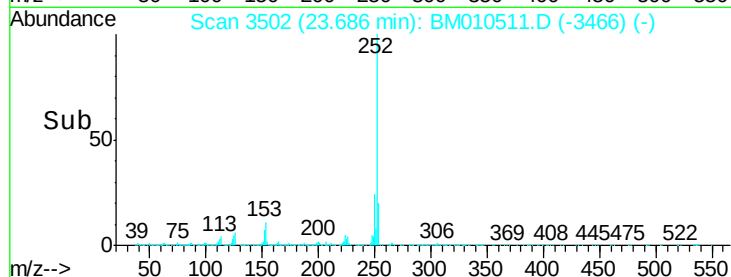
Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.2	27.2
125	5.0	4.0	6.0



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 15.156 ng/ul

RT: 26.16 min Scan# 3923

Delta R.T. 0.01 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

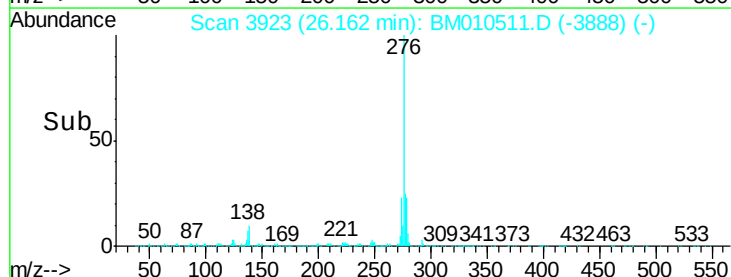
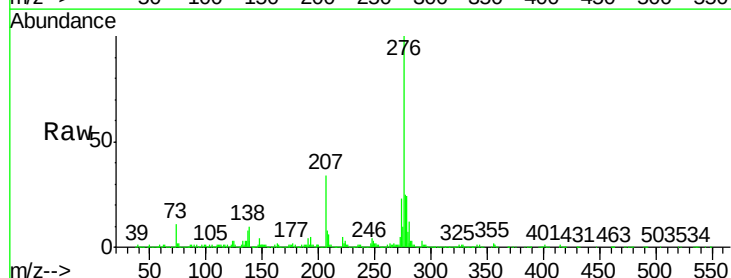
Tgt Ion:276 Resp: 2017848

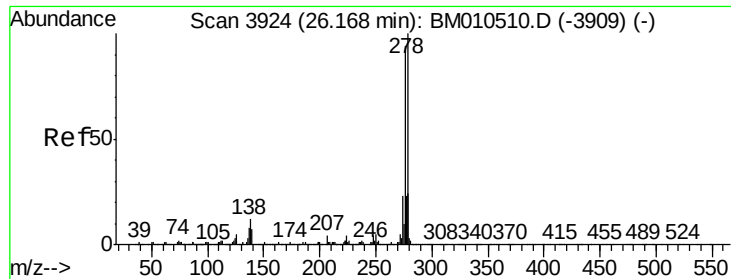
Ion	Ratio	Lower	Upper
276	100		
138	9.7	9.3	13.9
277	25.0	19.9	29.9

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





#90

Dibenzo(a,h)anthracene

Concen: 4.955 ng/ul

RT: 26.16 min Scan# 3922

Delta R.T. -0.01 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

Instrument :

BNA_M

ClientSampleId :

F5C58

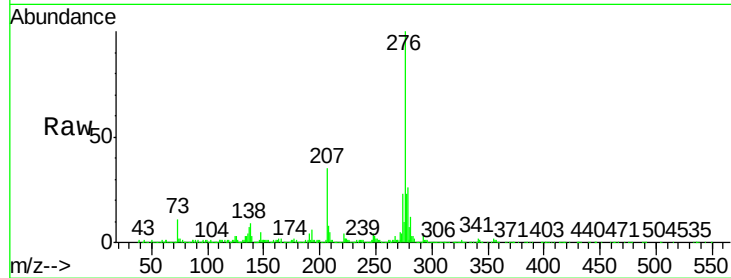
Tgt Ion:278 Resp: 568207

Ion Ratio Lower Upper

278 100

139 11.5 5.8 8.8#

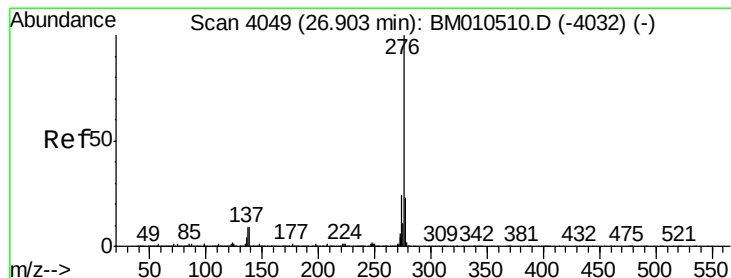
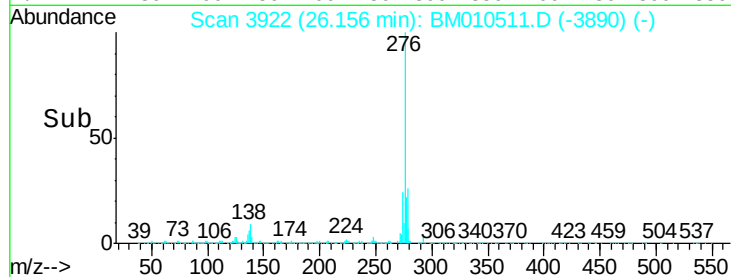
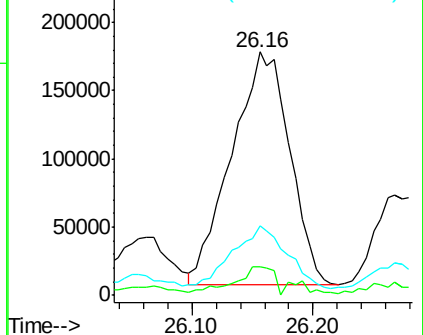
279 28.6 18.6 27.8#



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



#91

Benzo(g,h,i)perylene

Concen: 12.265 ng/ul

RT: 26.90 min Scan# 4049

Delta R.T. 0.00 min

Lab File: BM010511.D

Acq: 11 Jun 2017 06:34

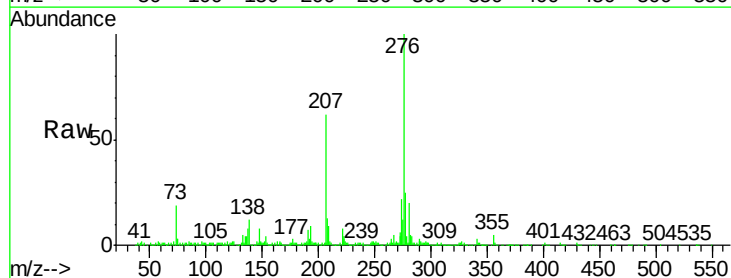
Tgt Ion:276 Resp: 1345354

Ion Ratio Lower Upper

276 100

138 11.7 8.5 12.7

277 25.4 18.6 28.0



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

