

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122015\
 Data File : BM003663.D
 Acq On : 20 Dec 2015 20:28
 Operator : UM/SJ
 Sample : G4867-11
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 G9DA6

Quant Time: Dec 21 03:59:27 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM121915.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 03:56:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	20792	20.00	ng/ul	0.00
18) Naphthalene-d8	10.49	136	99346	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.35	164	65552	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.10	188	154544	20.00	ng/ul	0.00
78) Chrysene-d12	21.30	240	214625	20.00	ng/ul	0.00
86) Perylene-d12	23.54	264	210190	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.16	96	400	1.04	ng/uL	0.00
5) Phenol-d5	6.87	99	13990	7.98	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.03	67	33237	35.60	ng/ul	0.00
9) 2-Chlorophenol-d4	7.23	132	43007	30.07	ng/ul	0.00
13) 4-Methylphenol-d8	8.41	113	28911	19.05	ng/ul	0.00
19) Nitrobenzene-d5	8.86	128	28992	40.23	ng/ul	0.00
22) 2-Nitrophenol-d4	9.57	143	31637	39.02	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.12	165	51654	34.90	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	4574	2.32	ng/ul	-0.02
44) Dimethylphthalate-d6	13.76	166	197692	36.49	ng/ul	0.00
47) Acenaphthylene-d8	14.05	160	230579	37.38	ng/ul	0.00
52) 4-Nitrophenol-d4	14.57	143	9774	9.26	ng/ul	0.00
58) Fluorene-d10	15.34	176	165593	36.94	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.47	200	31185	35.80	ng/ul	0.00
71) Anthracene-d10	17.20	188	281129	39.98	ng/ul	0.00
79) Pyrene-d10	19.50	212	342156	36.50	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.40	264	411613	39.42	ng/ul	0.00

Target Compounds

						Ovalue
4) Benzaldehyde	6.85	77	29261	28.95	ng/ul#	1
11) 2-Methylphenol	8.26	108	2315	1.58	ng/ul#	4
14) Acetophenone	8.51	105	15219	6.42	ng/ul#	78
17) Hexachloroethane	8.75	117	6208	10.98	ng/ul#	7
20) Nitrobenzene	8.88	77	2224	1.34	ng/ul#	10
28) Naphthalene	10.56	128	3598385	703.02	ng/ul	99
32) Caprolactam	11.33	113	1303	2.27	ng/ul#	1
34) 2-Methylnaphthalene	12.16	142	31219	8.17	ng/ul	98
35) 1-Methylnaphthalene	12.40	142	2227037	613.35	ng/ul	100
41) 1,1'-Biphenyl	13.18	154	388234	72.92	ng/ul	99
43) 2-Nitroaniline	13.39	65	3903	3.53	ng/ul#	8
46) 2,6-Dinitrotoluene	13.85	165	1468	1.36	ng/ul#	64
48) Acenaphthylene	14.07	152	471906	69.97	ng/ul#	95
50) Acenaphthene	14.42	153	915792	203.32	ng/ul	98
53) 4-Nitrophenol	14.42	109	1683	1.88	ng/ul#	1
54) Dibenzofuran	14.75	168	100283	15.60	ng/ul	96
55) 2,4-Dinitrotoluene	14.70	165	2760	1.68	ng/ul#	57
59) Fluorene	15.40	166	484368	93.86	ng/ul	100
61) 4-Nitroaniline	15.40	138	5937	4.44	ng/ul#	15
70) Phenanthrene	17.14	178	832887	97.43	ng/ul	100
72) Anthracene	17.23	178	162858	18.68	ng/ul	99
75) Carbazole	17.50	167	263590	33.13	ng/ul	100
77) Fluoranthene	19.16	202	76473	7.78	ng/ul	99

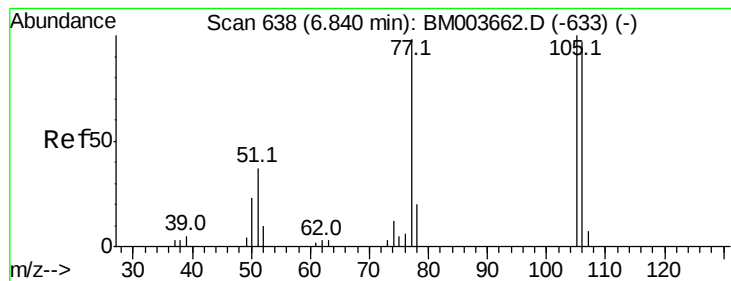
Data Path : Z:\HPCHEM1\BNA M\DATA\BM122015\
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Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 21 03:56:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Pyrene	19.53	202	109595	8.87	ng/ul	99
85) Chrysene	21.33	228	12645	1.01	ng/ul	96

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



#4

Benzaldehyde

Concen: 28.95 ng/ul

RT: 6.85 min Scan# 639

Delta R.T. 0.01 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

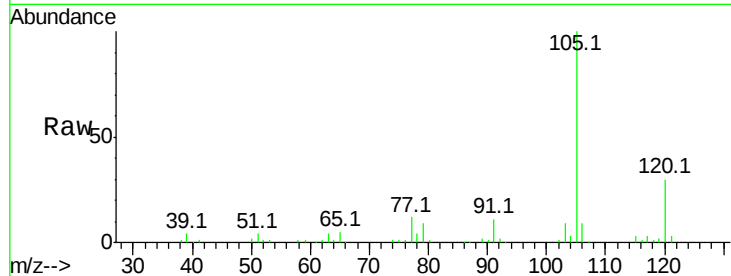
Tot Ion: 77 Resp: 29261

Ion Ratio Lower Upper

77 100

105 848.9 80.6 120.8#

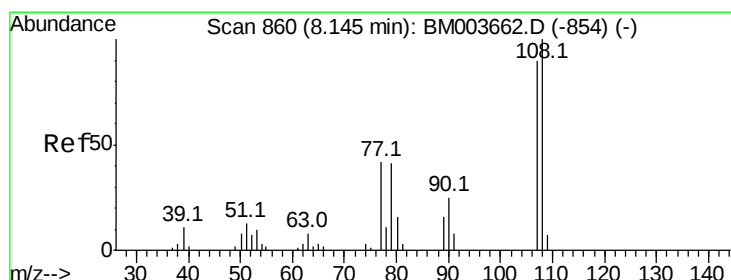
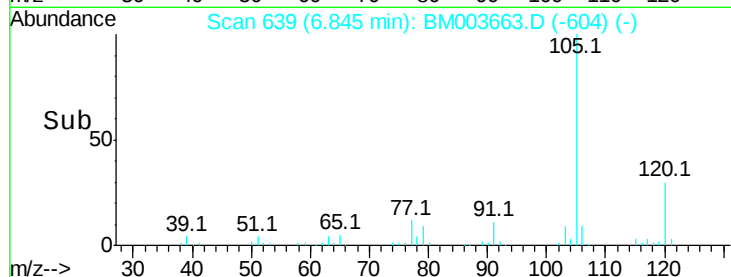
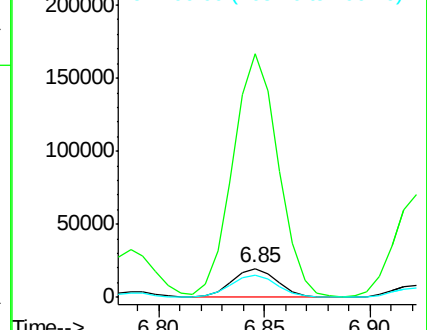
106 76.4 77.7 116.5#



Abundance Ion 77.00 (76.70 to 77.70): BM003663.D (-604) (-)

Ion 105.00 (104.70 to 105.70): BM003663.D (-604) (-)

Ion 106.00 (105.70 to 106.70): BM003663.D (-604) (-)



#11

2-Methylphenol

Concen: 1.58 ng/ul

RT: 8.26 min Scan# 879

Delta R.T. 0.11 min

Lab File: BM003663.D

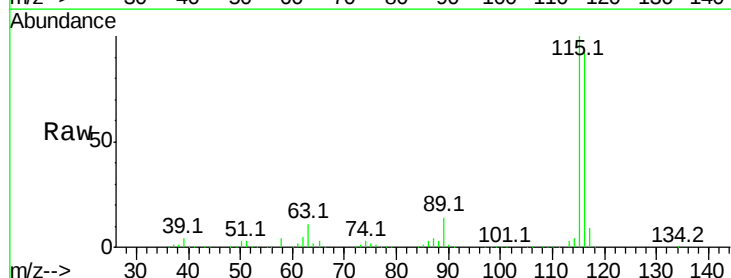
Acq: 20 Dec 2015 20:28

Tgt Ion: 108 Resp: 2315

Ion Ratio Lower Upper

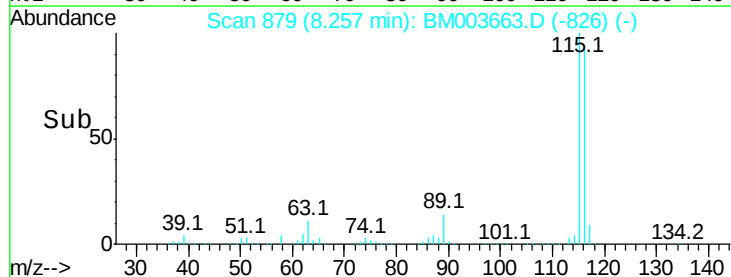
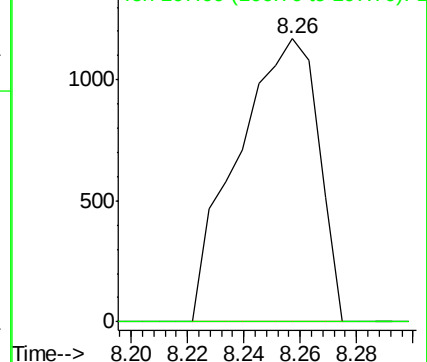
108 100

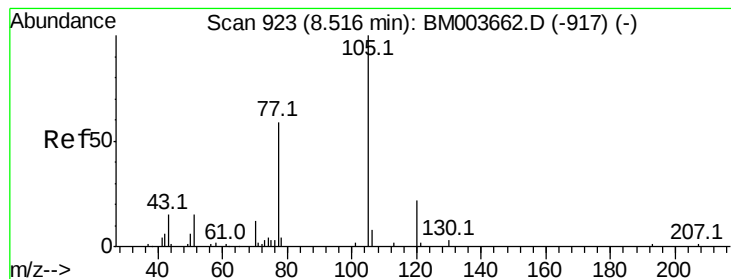
107 0.0 72.4 108.6#



Abundance Ion 108.00 (107.70 to 108.70): BM003663.D (-826) (-)

Ion 107.00 (106.70 to 107.70): BM003663.D (-826) (-)





#14

Acetophenone

Concen: 6.42 ng/ul

RT: 8.51 min Scan# 922

Delta R.T. -0.01 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

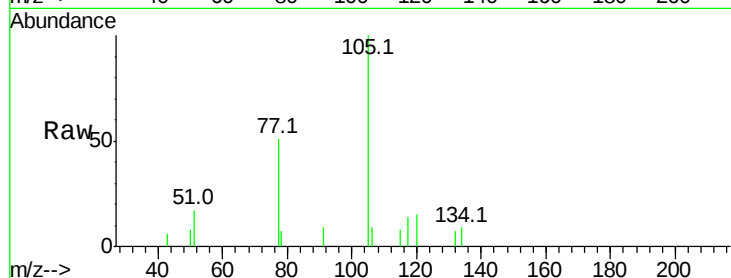
Tot Ion:105 Resp: 15219

Ion Ratio Lower Upper

105 100

77 51.2 59.0 88.4#

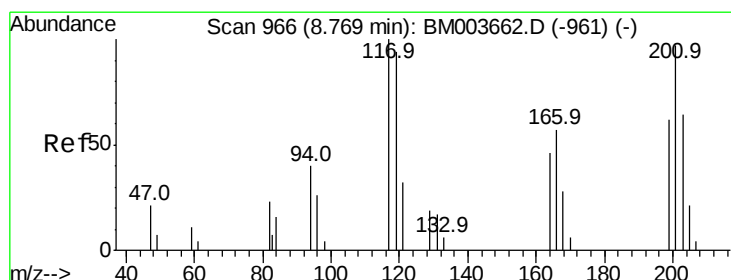
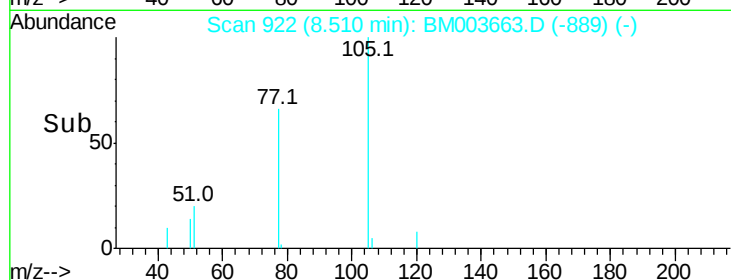
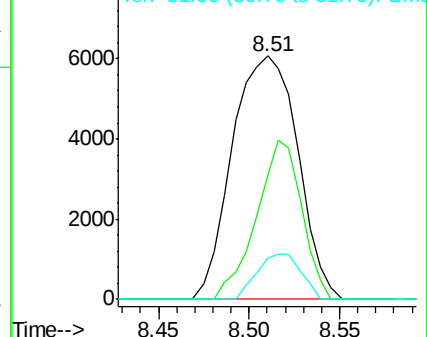
51 17.1 16.4 24.6



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#17

Hexachloroethane

Concen: 10.98 ng/ul

RT: 8.75 min Scan# 963

Delta R.T. -0.02 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

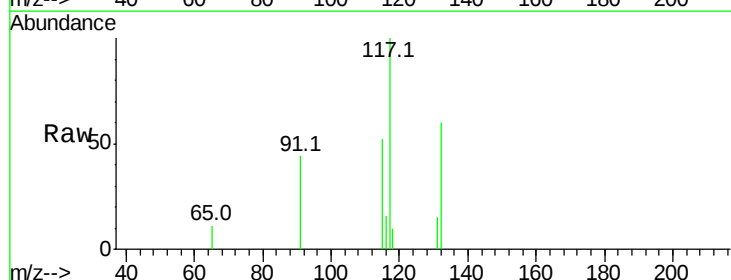
Tgt Ion:117 Resp: 6208

Ion Ratio Lower Upper

117 100

201 0.0 81.5 122.3#

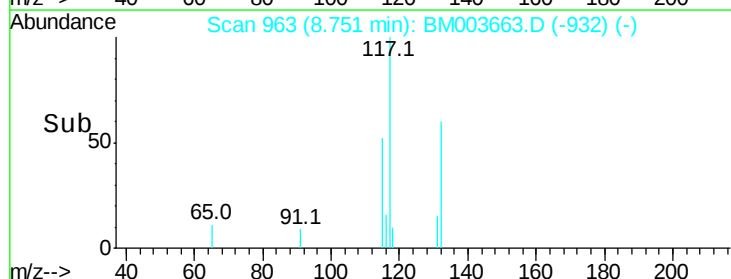
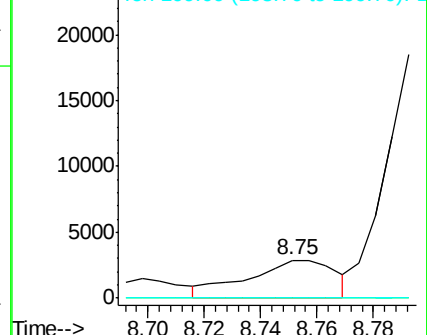
199 0.0 50.6 76.0#

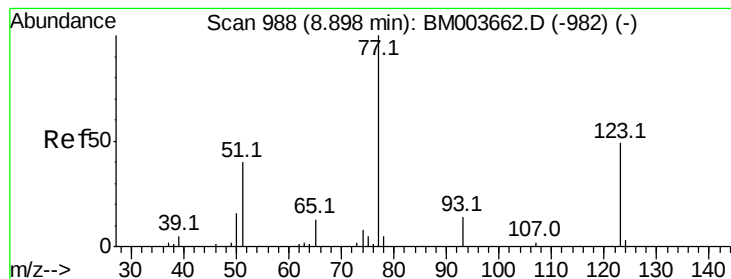


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E





#20

Nitrobenzene

Concen: 1.34 ng/ul

RT: 8.88 min Scan# 985

Delta R.T. -0.02 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

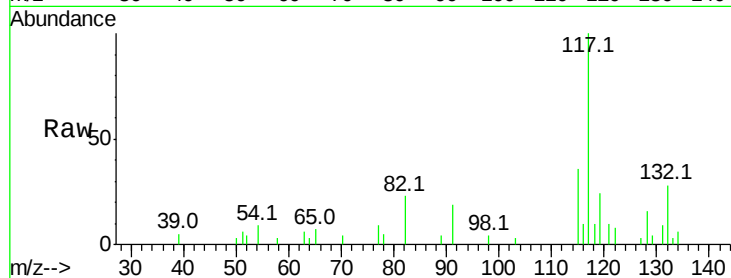
Tot Ion: 77 Resp: 2224

Ion Ratio Lower Upper

77 100

123 0.0 39.0 58.4#

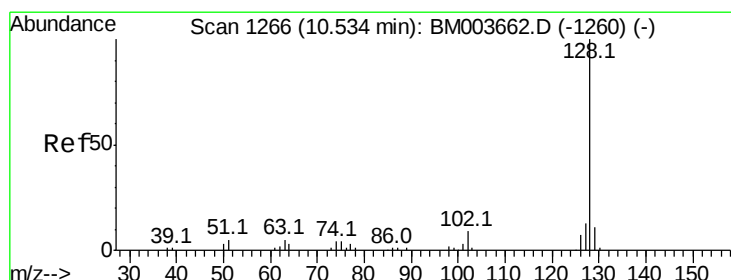
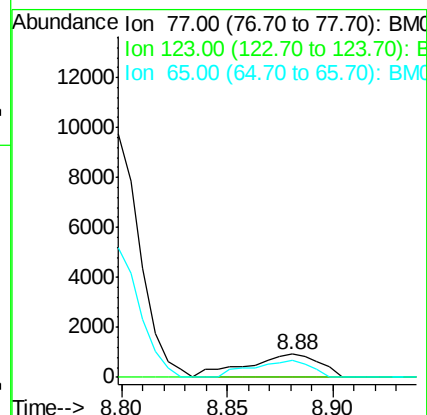
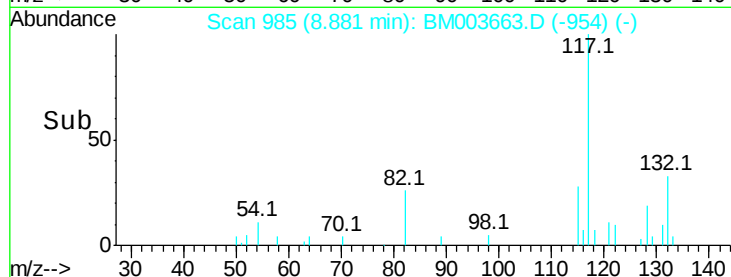
65 76.1 10.4 15.6#



Abundance Ion 77.00 (76.70 to 77.70): BM003662.D (-982) (-)

Ion 123.00 (122.70 to 123.70): BM003662.D (-982) (-)

Ion 65.00 (64.70 to 65.70): BM003662.D (-982) (-)



#28

Naphthalene

Concen: 703.02 ng/ul

RT: 10.56 min Scan# 1270

Delta R.T. 0.02 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

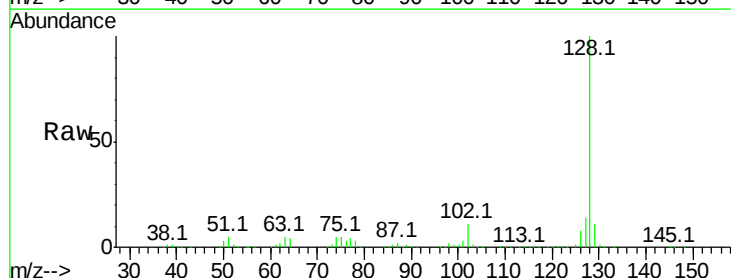
Tgt Ion:128 Resp: 3598385

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

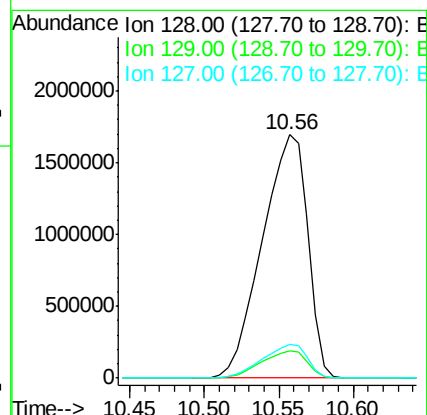
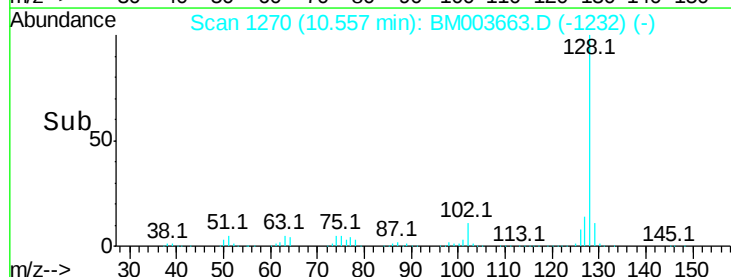
127 13.8 10.5 15.7

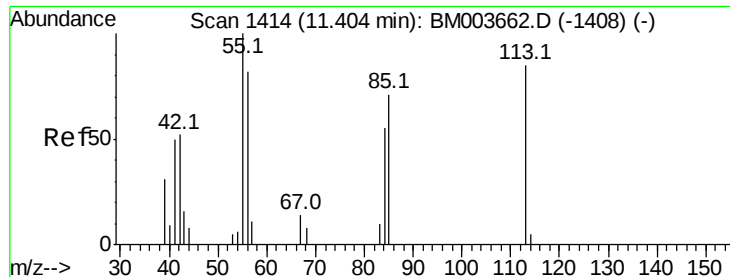


Abundance Ion 128.00 (127.70 to 128.70): BM003662.D (-1260) (-)

Ion 129.00 (128.70 to 129.70): BM003662.D (-1260) (-)

Ion 127.00 (126.70 to 127.70): BM003662.D (-1260) (-)





#32

Caprolactam

Concen: 2.27 ng/ul

RT: 11.33 min Scan# 1402

Delta R.T. -0.07 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

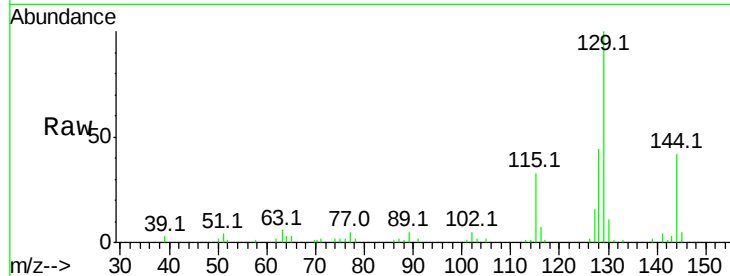
Tot Ion:113 Resp: 1303

Ion Ratio Lower Upper

113 100

55 0.0 101.9 152.9#

56 0.0 81.2 121.8#

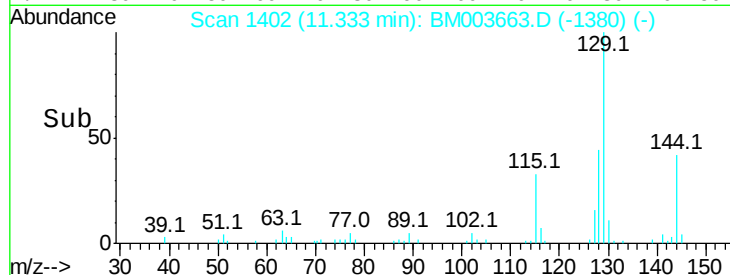


Abundance Ion 113.00 (112.70 to 113.70): E

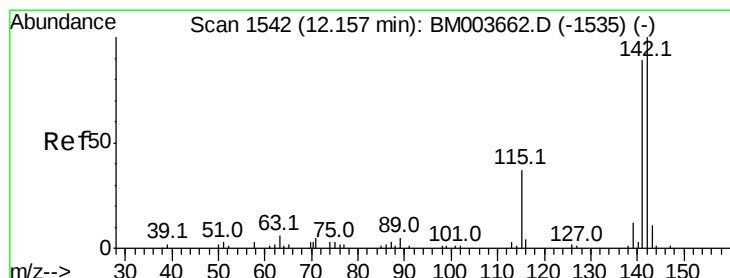
Ion 55.00 (54.70 to 55.70): BM0

Ion 56.00 (55.70 to 56.70): BM0

Time-->



Time-->



#34

2-Methylnaphthalene

Concen: 8.17 ng/ul

RT: 12.16 min Scan# 1542

Delta R.T. -0.00 min

Lab File: BM003663.D

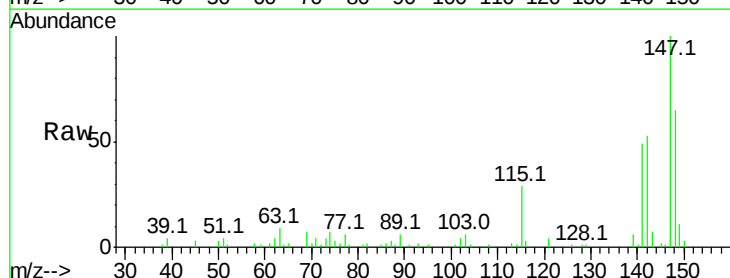
Acq: 20 Dec 2015 20:28

Tgt Ion:142 Resp: 31219

Ion Ratio Lower Upper

142 100

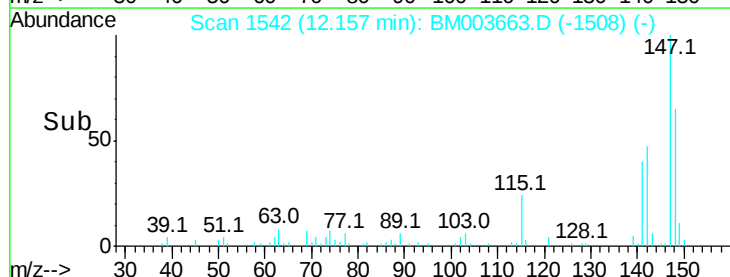
141 91.7 71.6 107.4



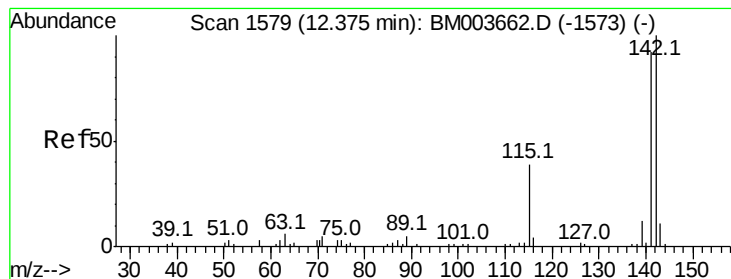
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Time-->



Time-->



#35

1-Methylnaphthalene

Concen: 613.35 ng/ul

RT: 12.40 min Scan# 1583

Delta R.T. 0.02 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampled :

G9DA6

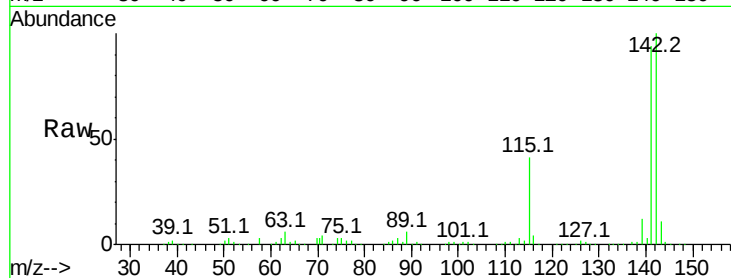
Tot Ion:142 Resp: 2227037

Ion Ratio Lower Upper

142 100

141 93.7 74.9 112.3

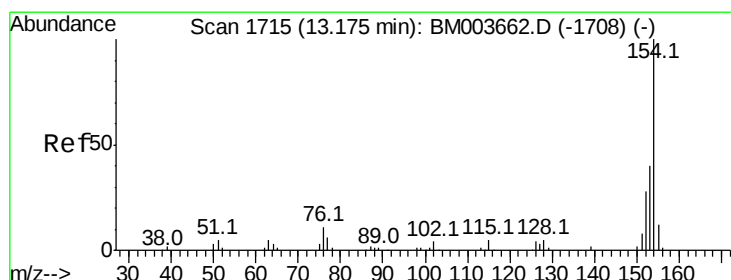
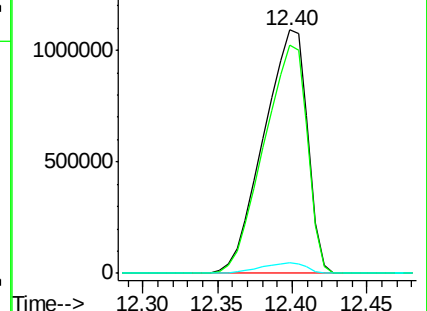
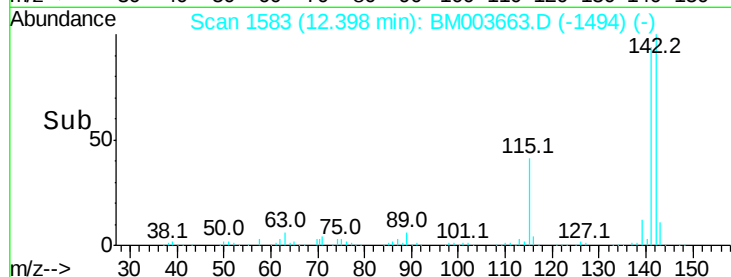
116 4.3 3.1 4.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#41

1,1'-Biphenyl

Concen: 72.92 ng/ul

RT: 13.18 min Scan# 1716

Delta R.T. 0.01 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

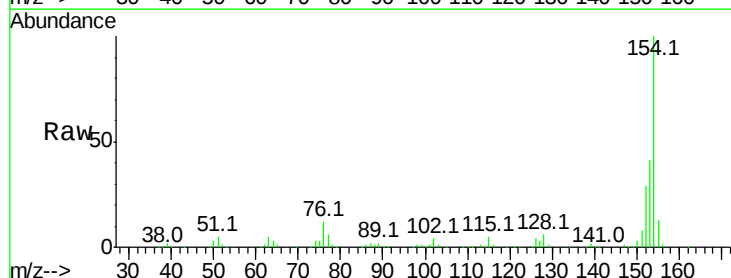
Tgt Ion:154 Resp: 388234

Ion Ratio Lower Upper

154 100

153 40.8 32.1 48.1

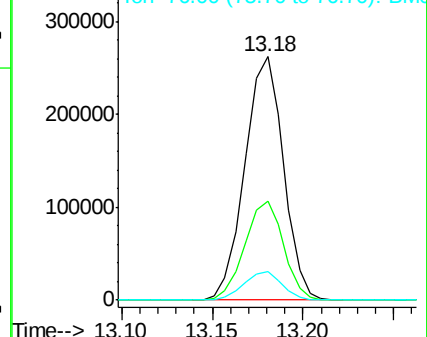
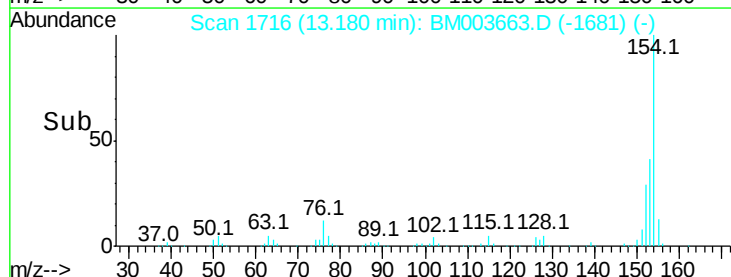
76 11.6 9.5 14.3

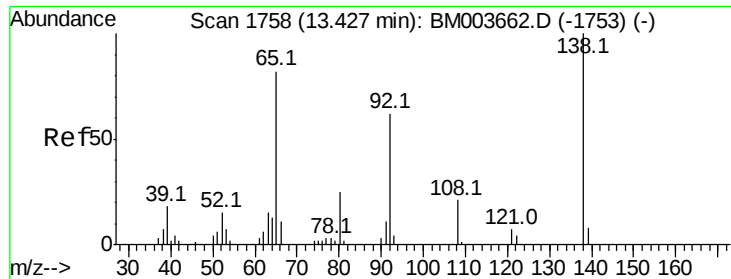


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM

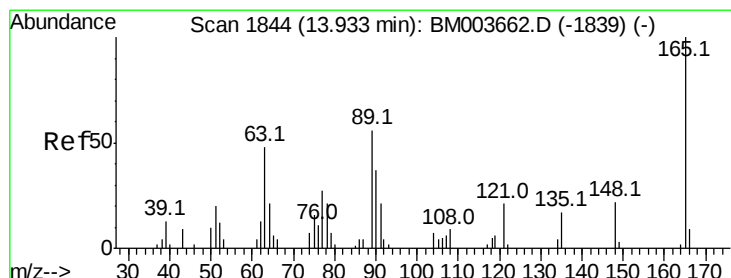
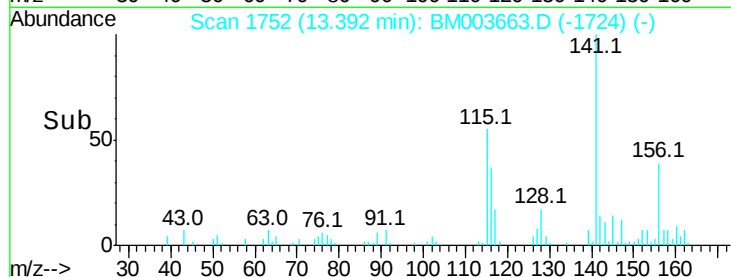
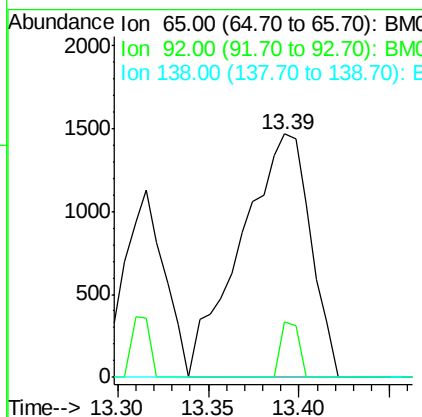
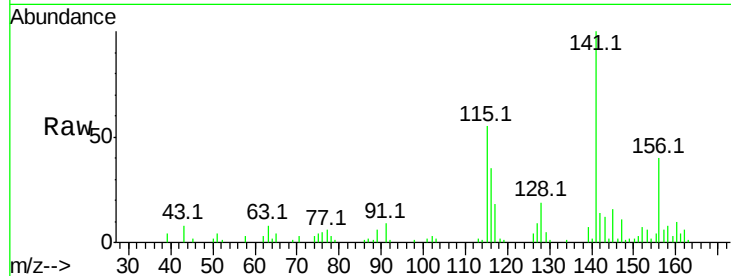




#43
 2-Nitroaniline
 Concen: 3.53 ng/ul
 RT: 13.39 min Scan# 1752
 Delta R.T. -0.04 min
 Lab File: BM003663.D
 Acq: 20 Dec 2015 20:28

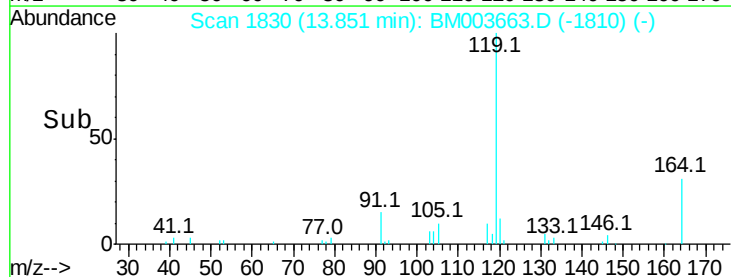
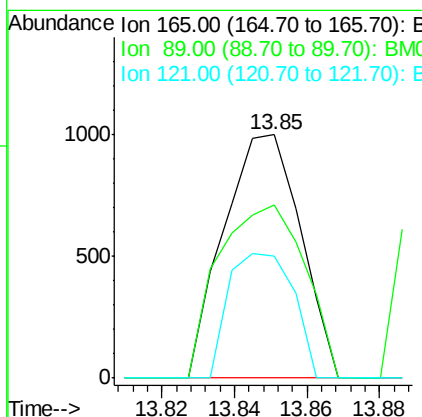
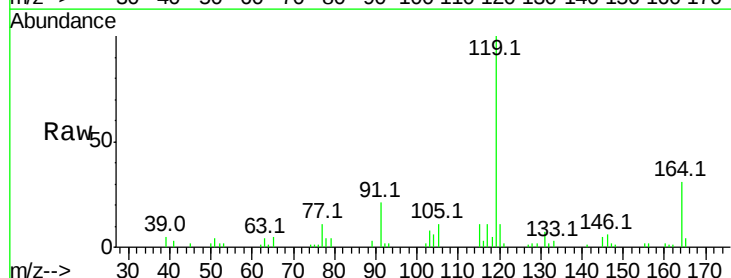
Instrument :
 BNA_M
 ClientSampleId :
 G9DA6

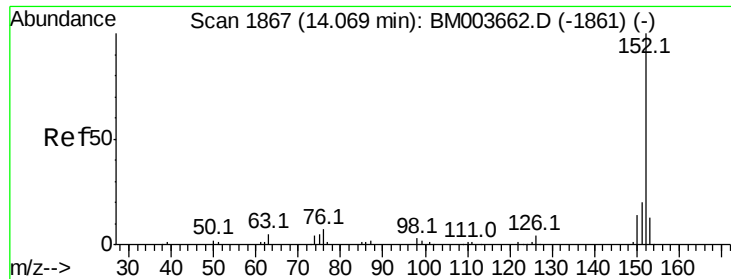
Tot Ion: 65 Resp: 3903
 Ion Ratio Lower Upper
 65 100
 92 22.6 60.4 90.6#
 138 0.0 99.8 149.6#



#46
 2,6-Dinitrotoluene
 Concen: 1.36 ng/ul
 RT: 13.85 min Scan# 1830
 Delta R.T. -0.08 min
 Lab File: BM003663.D
 Acq: 20 Dec 2015 20:28

Tgt Ion:165 Resp: 1468
 Ion Ratio Lower Upper
 165 100
 89 71.4 42.4 63.6#
 121 49.9 16.6 24.8#





#48

Acenaphthylene

Concen: 69.97 ng/ul

RT: 14.07 min Scan# 1868

Delta R.T. 0.01 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

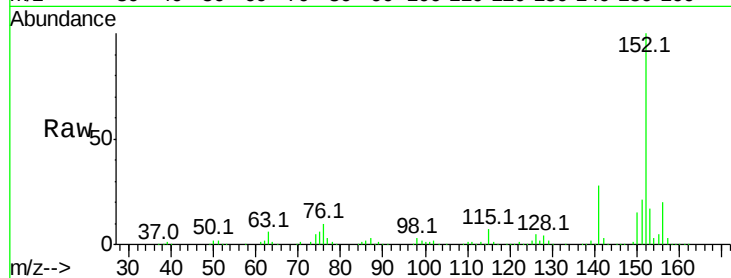
Tot Ion:152 Resp: 471906

Ion Ratio Lower Upper

152 100

151 20.8 15.7 23.5

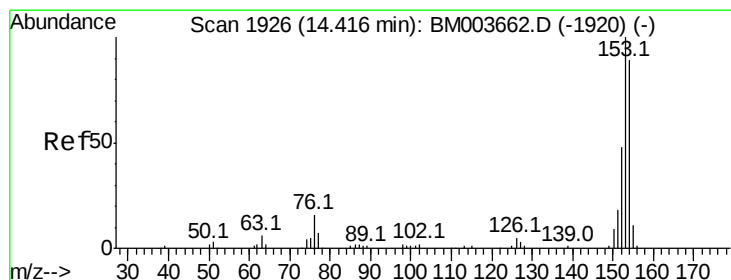
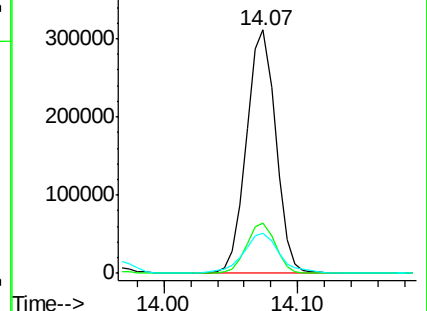
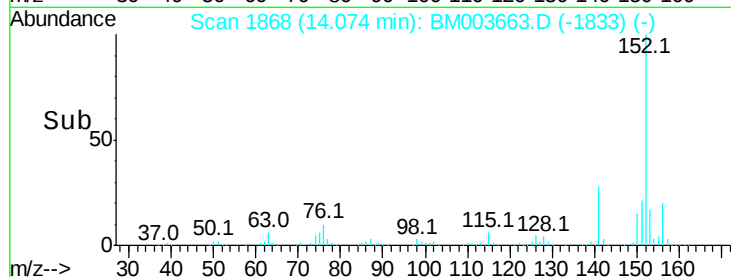
153 16.7 10.5 15.7#



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

Acenaphthene

Concen: 203.32 ng/ul

RT: 14.42 min Scan# 1927

Delta R.T. 0.01 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

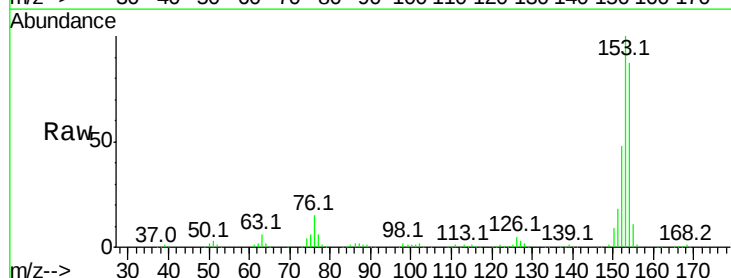
Tgt Ion:153 Resp: 915792

Ion Ratio Lower Upper

153 100

152 48.0 38.3 57.5

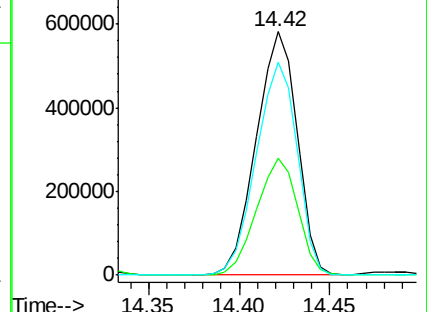
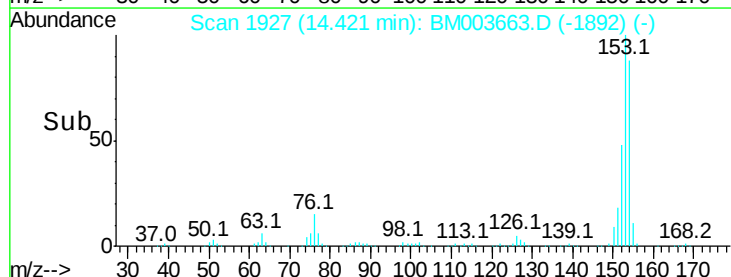
154 87.4 71.8 107.8

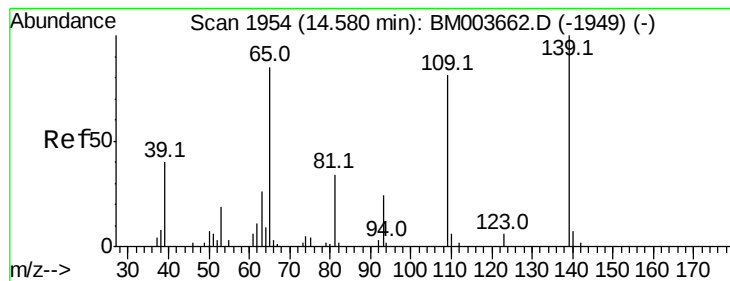


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

4-Nitrophenol

Concen: 1.88 ng/ul

RT: 14.42 min Scan# 1927

Delta R.T. -0.16 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

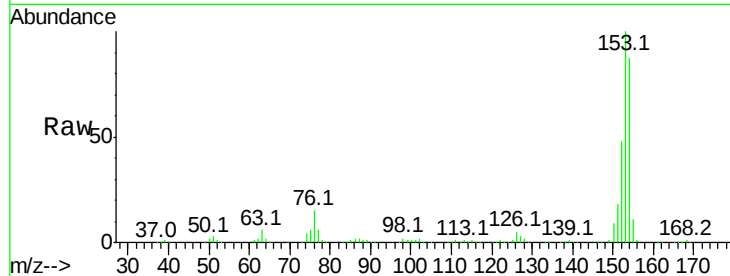
Tot Ion:109 Resp: 1683

Ion Ratio Lower Upper

109 100

139 400.6 103.7 155.5#

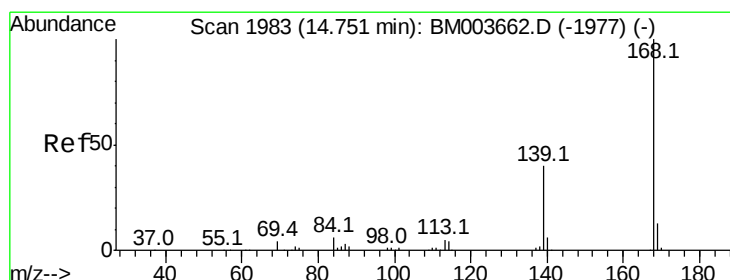
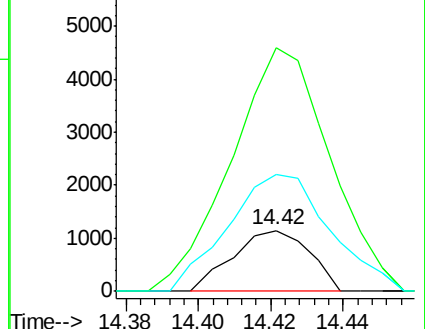
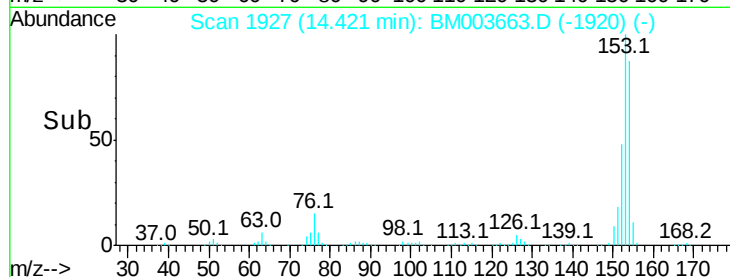
65 192.4 89.4 134.2#



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): BM



#54

Dibenzofuran

Concen: 15.60 ng/ul

RT: 14.75 min Scan# 1983

Delta R.T. -0.00 min

Lab File: BM003663.D

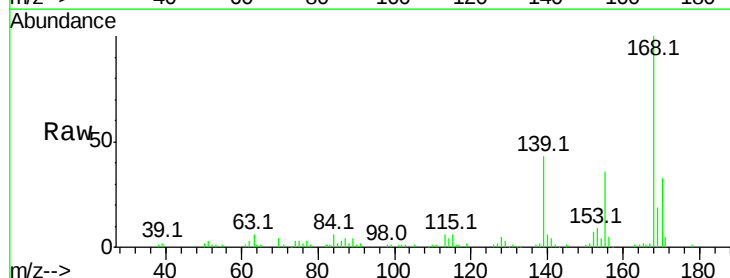
Acq: 20 Dec 2015 20:28

Tgt Ion:168 Resp: 100283

Ion Ratio Lower Upper

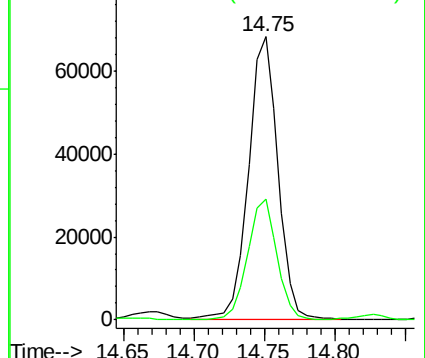
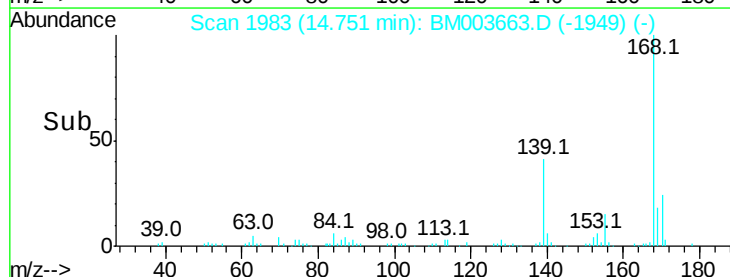
168 100

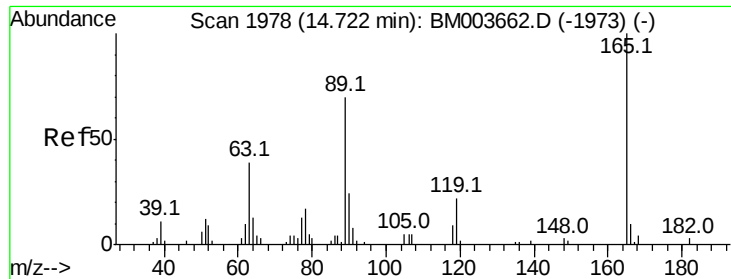
139 42.6 32.2 48.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

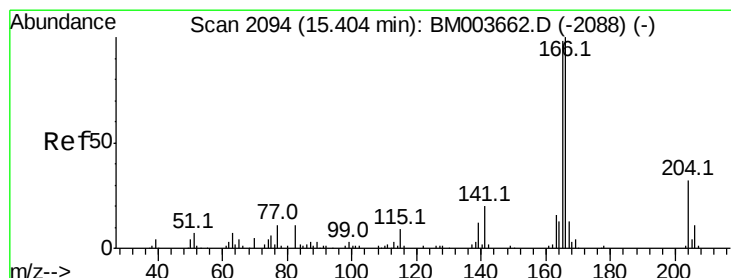
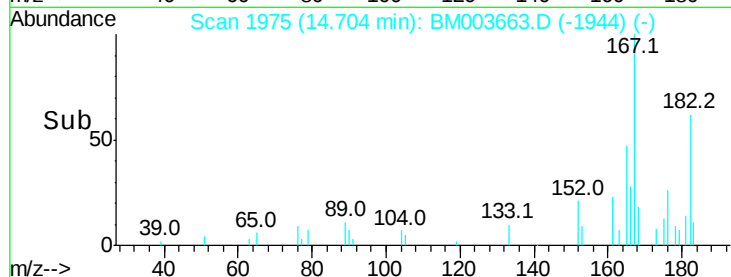
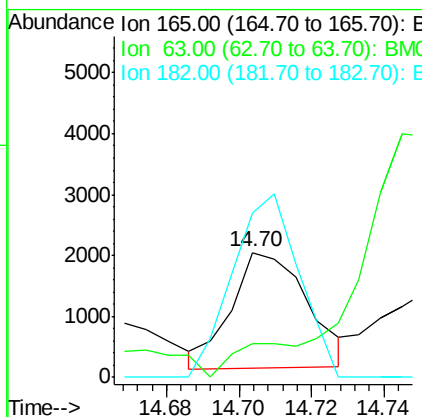
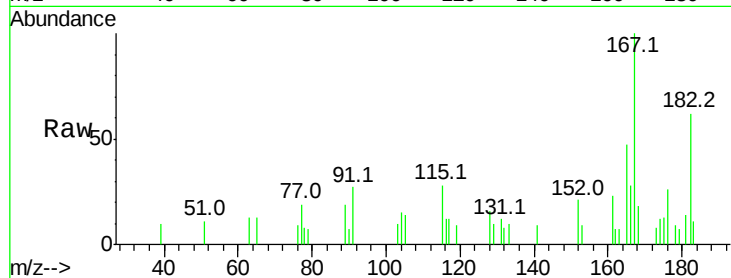




#55
 2,4-Dinitrotoluene
 Concen: 1.68 ng/ul
 RT: 14.70 min Scan# 1975
 Delta R.T. -0.02 min
 Lab File: BM003663.D
 Acq: 20 Dec 2015 20:28

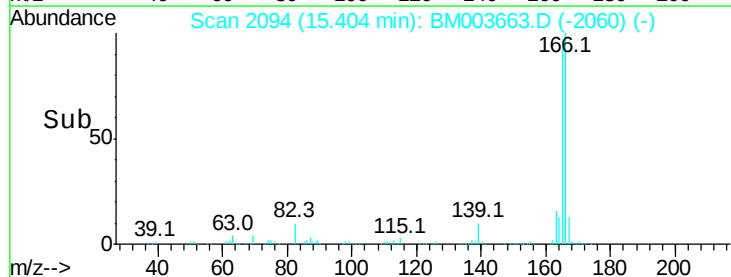
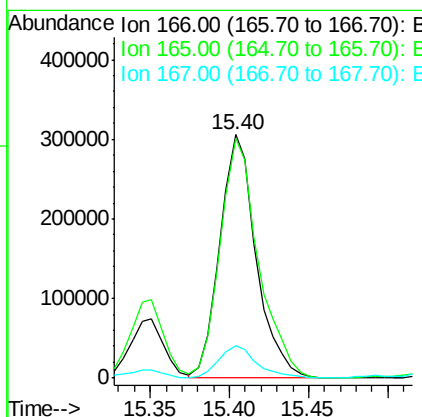
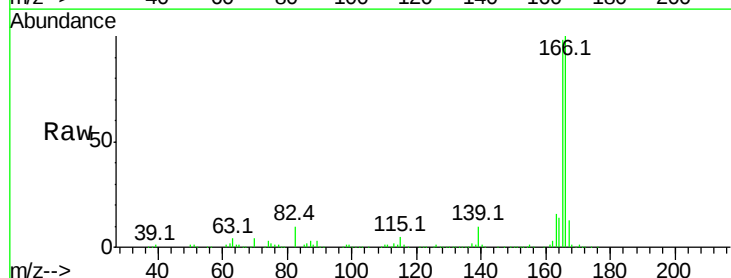
Instrument :
 BNA_M
 ClientSampled :
 G9DA6

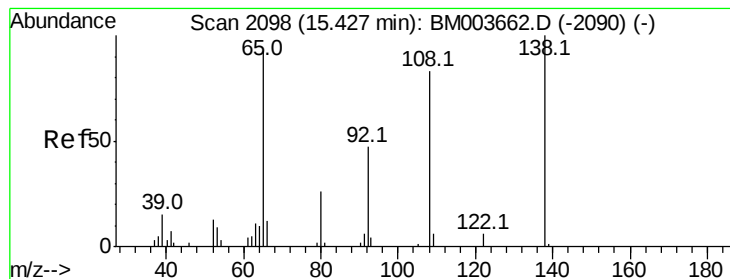
Tot Ion:165 Resp: 2760
 Ion Ratio Lower Upper
 165 100
 63 26.9 29.8 44.6#
 182 131.7 2.2 3.4#



#59
 Fluorene
 Concen: 93.86 ng/ul
 RT: 15.40 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: BM003663.D
 Acq: 20 Dec 2015 20:28

Tgt Ion:166 Resp: 484368
 Ion Ratio Lower Upper
 166 100
 165 98.3 78.5 117.7
 167 13.2 10.7 16.1





#61

4-Nitroaniline

Concen: 4.44 ng/ul

RT: 15.40 min Scan# 2094

Delta R.T. -0.02 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

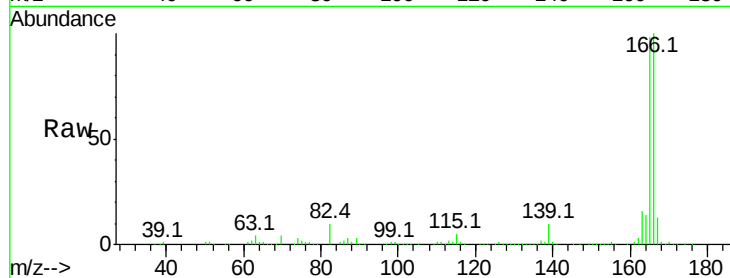
Tot Ion:138 Resp: 5937

Ion Ratio Lower Upper

138 100

92 0.0 40.6 60.8#

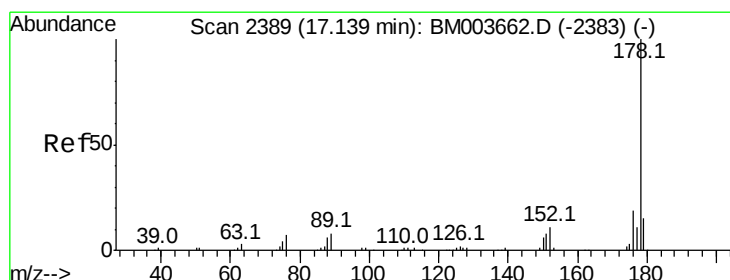
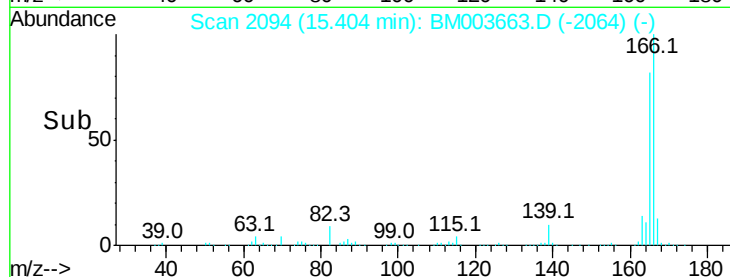
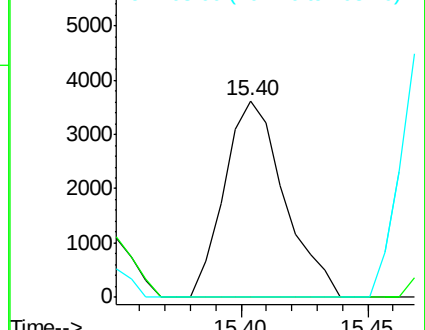
108 0.0 67.0 100.6#



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



#70

Phenanthrene

Concen: 97.43 ng/ul

RT: 17.14 min Scan# 2390

Delta R.T. 0.01 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

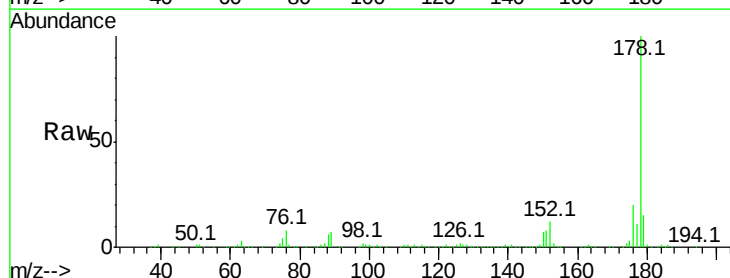
Tgt Ion:178 Resp: 832887

Ion Ratio Lower Upper

178 100

179 15.0 12.2 18.4

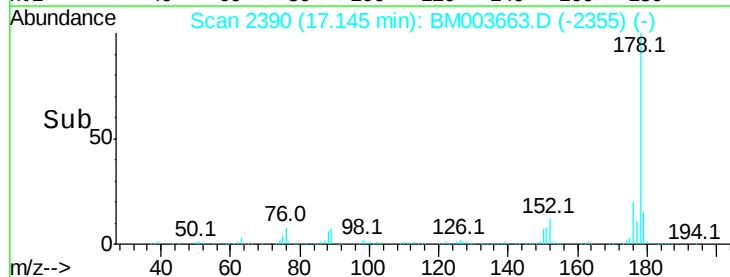
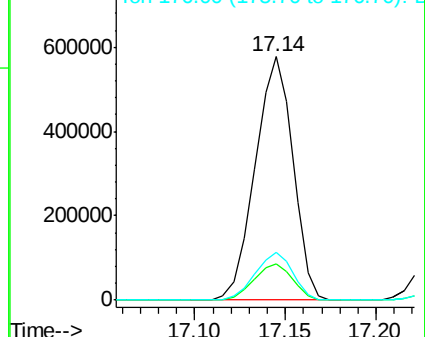
176 19.6 15.6 23.4

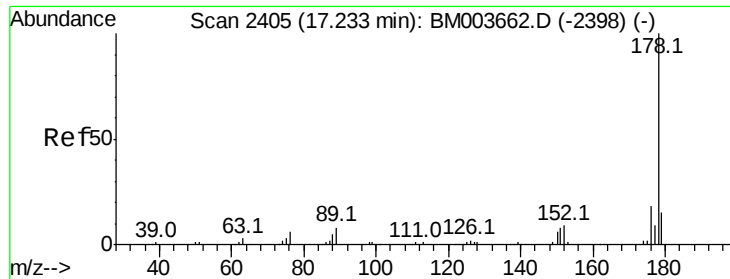


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 18.68 ng/ul

RT: 17.23 min Scan# 2405

Delta R.T. -0.00 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

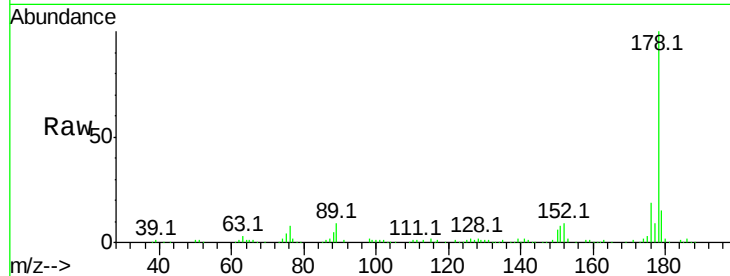
Tot Ion:178 Resp: 162858

Ion Ratio Lower Upper

178 100

179 15.3 12.1 18.1

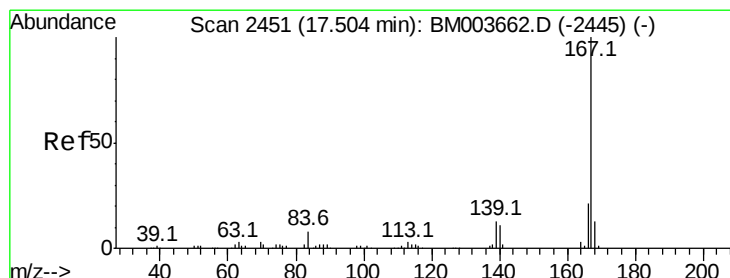
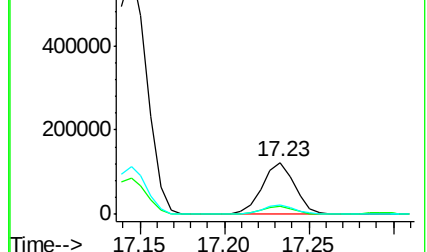
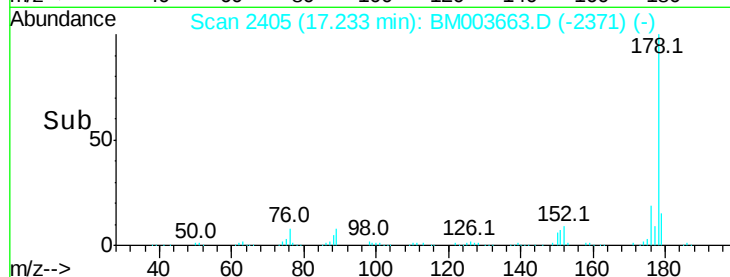
176 18.8 14.8 22.2



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



#75

Carbazole

Concen: 33.13 ng/ul

RT: 17.50 min Scan# 2451

Delta R.T. -0.00 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

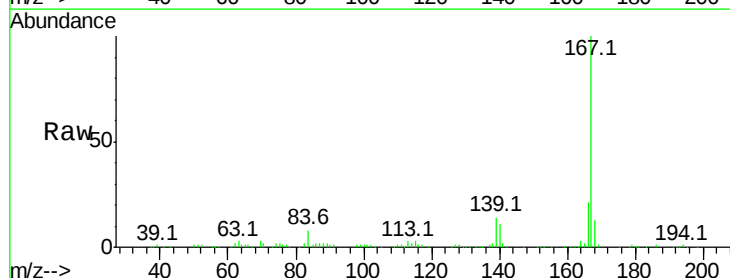
Tgt Ion:167 Resp: 263590

Ion Ratio Lower Upper

167 100

166 21.3 17.0 25.6

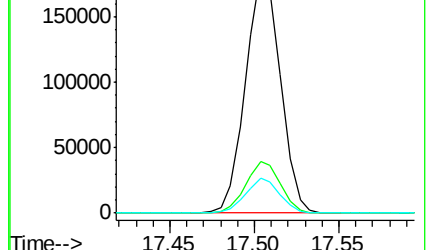
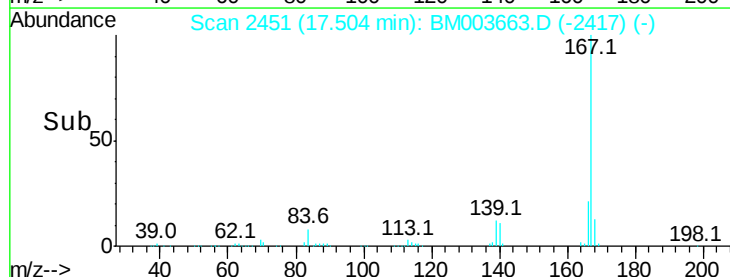
139 14.2 11.0 16.4

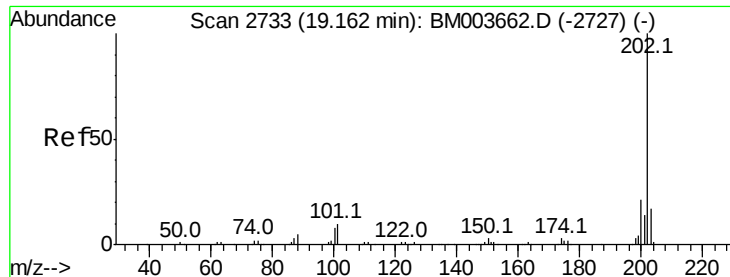


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#77

Fluoranthene

Concen: 7.78 ng/ul

RT: 19.16 min Scan# 2733

Delta R.T. -0.00 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

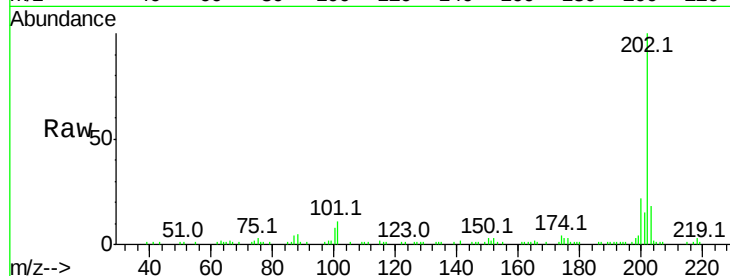
Tot Ion:202 Resp: 76473

Ion Ratio Lower Upper

202 100

101 11.3 8.8 13.2

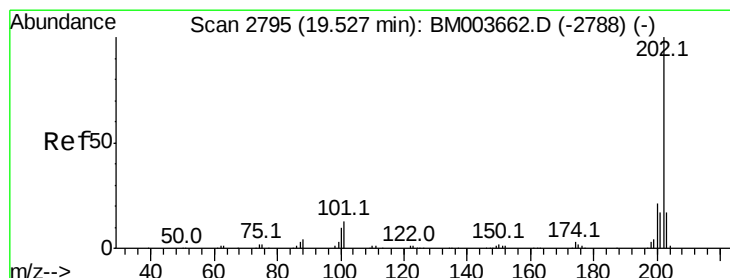
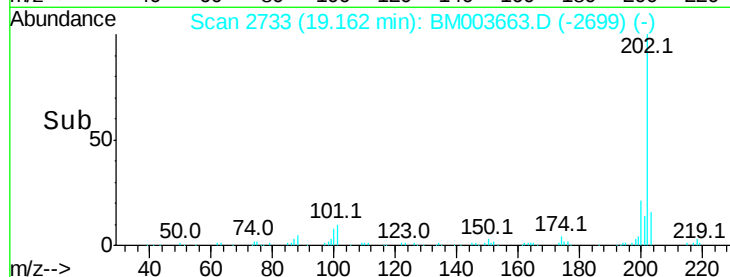
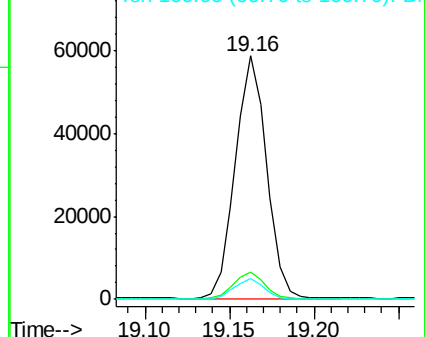
100 8.5 6.6 9.8



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

Pyrene

Concen: 8.87 ng/ul

RT: 19.53 min Scan# 2795

Delta R.T. -0.00 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

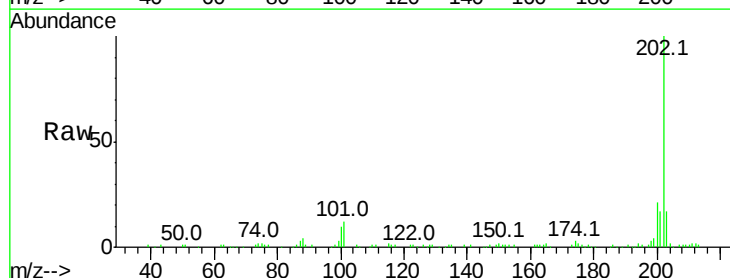
Tgt Ion:202 Resp: 109595

Ion Ratio Lower Upper

202 100

101 12.4 10.2 15.2

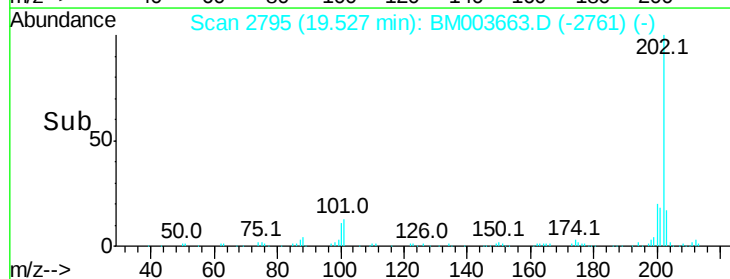
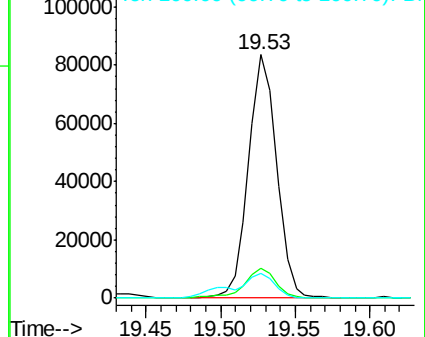
100 10.4 8.5 12.7

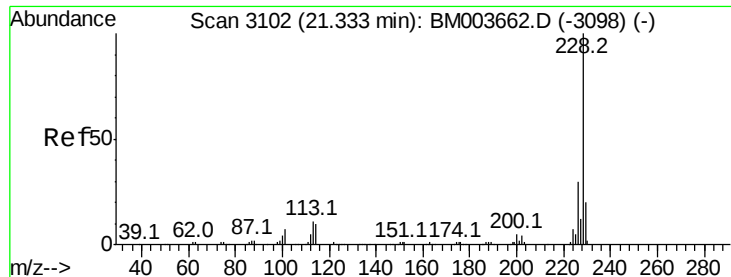


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#85

Chrysene

Concen: 1.01 ng/ul

RT: 21.33 min Scan# 3102

Delta R.T. -0.00 min

Lab File: BM003663.D

Acq: 20 Dec 2015 20:28

Instrument :

BNA_M

ClientSampleId :

G9DA6

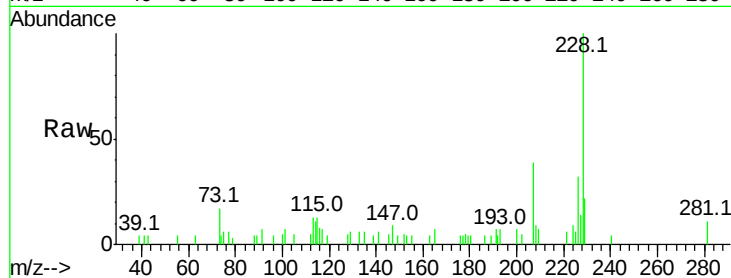
Tot Ion:228 Resp: 12645

Ion Ratio Lower Upper

228 100

226 31.8 24.0 36.0

229 22.2 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

