

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101515\
 Data File : BM002924.D
 Acq On : 15 Oct 2015 21:10
 Operator : UM/IZ
 Sample : G4018-05MS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-104MS

Quant Time: Oct 16 07:01:40 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM101515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 16 06:59:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.66	152	104722	5.00	ng	0.00
7) Naphthalene-d8	11.49	136	445467	5.00	ng	-0.01
13) Acenaphthene-d10	15.23	164	225672	5.00	ng	0.00
19) Phenanthrene-d10	17.95	188	533952	5.00	ng	-0.01
26) Chrysene-d12	22.03	240	386040	5.00	ng	-0.01
35) Perylene-d12	24.61	264	342693	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	6.12	112	58380	2.98	ng	-0.03
5) Phenol-d6	7.79	99	50993	2.04	ng	-0.02
8) Nitrobenzene-d5	9.85	82	87840	4.12	ng	-0.02
14) 2,4,6-Tribromophenol	16.71	330	83922	9.47	ng	0.00
15) 2-Fluorobiphenyl	13.87	172	307505	4.26	ng	0.00
29) Terphenyl-d14	20.48	244	300874	5.21	ng	-0.01

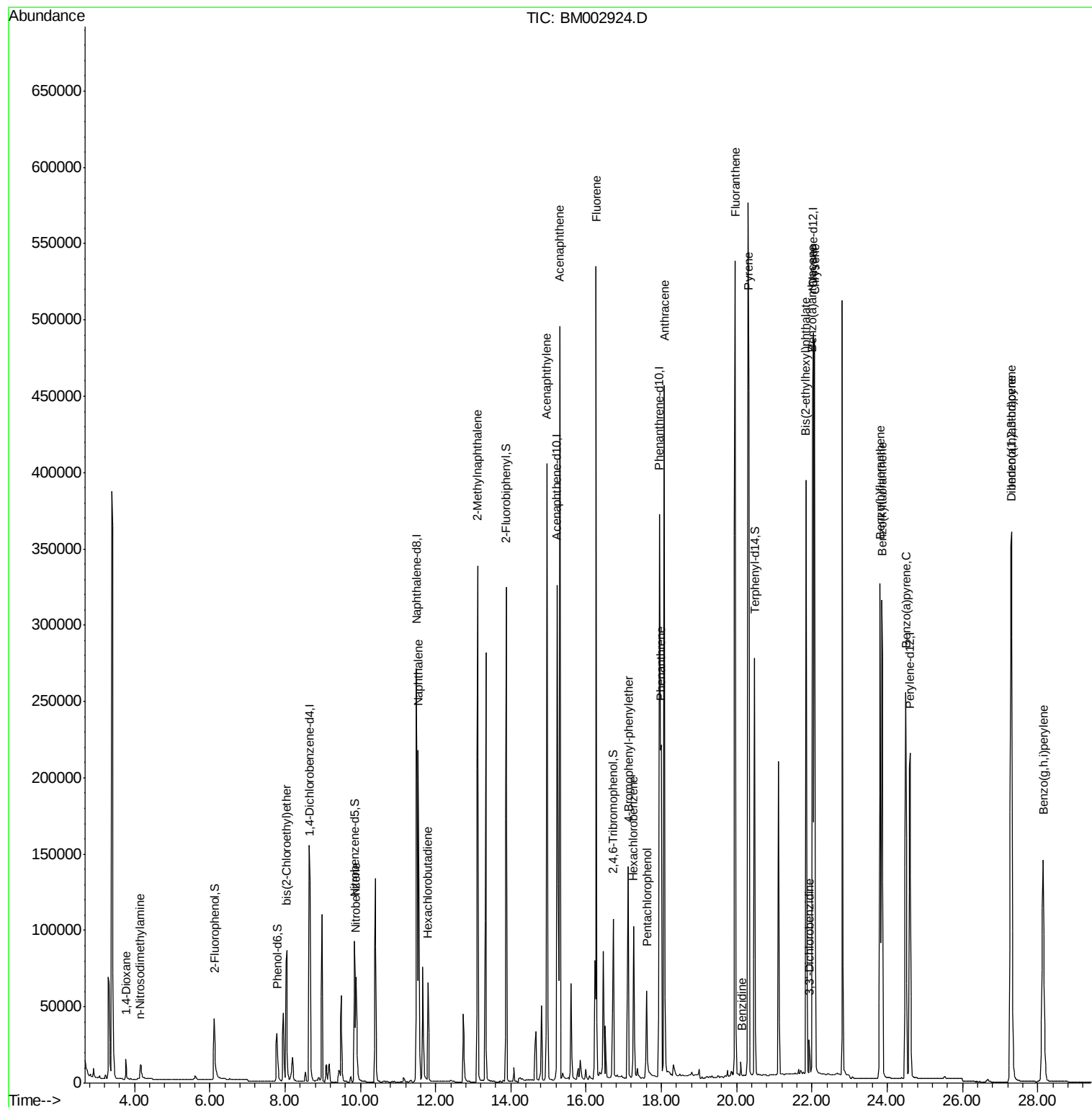
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.77	88	11235	1.18	ng	99
3) n-Nitrosodimethylamine	4.16	42	10484	1.41	ng	# 99
6) bis(2-Chloroethyl)ether	8.04	93	89803	3.76	ng	97
9) Nitrobenzene	9.89	77	92985	4.11	ng	99
10) Naphthalene	11.54	128	346143	3.50	ng	97
11) Hexachlorobutadiene	11.80	225	49460	3.10	ng	100
12) 2-Methylnaphthalene	13.11	142	254311	3.81	ng	97
16) Acenaphthylene	14.96	152	480065	4.87	ng	100
17) Acenaphthene	15.29	154	280644	4.15	ng	# 100
18) Fluorene	16.27	166	373659	4.63	ng	100
20) 4-Bromophenyl-phenylether	17.13	248	95373	4.31	ng	# 49
21) Hexachlorobenzene	17.26	284	100352	4.62	ng	# 78
22) Pentachlorophenol	17.61	266	56928	22.55	ng	91
23) Phenanthrene	18.00	178	483768	3.89	ng	# 77
24) Anthracene	18.07	178	587645	4.96	ng	98
25) Fluoranthene	19.96	202	635201	4.61	ng	100
27) Benzdine	20.15	184	496	0.16	ng	# 1
28) Pyrene	20.30	202	724053	6.36	ng	99
30) Benzo(a)anthracene	22.01	228	535727	4.80	ng	# 89
31) 3,3'-Dichlorobenzidine	21.93	252	28359	0.75	ng	# 82
32) Chrysene	22.07	228	480115	4.60	ng	92
33) Bis(2-ethylhexyl)phthalate	21.85	149	447085	5.18	ng	# 93
34) Indeno(1,2,3-cd)pyrene	27.30	276	438935	4.09	ng	100
36) Benzo(b)fluoranthene	23.81	252	496259	5.05	ng	98
37) Benzo(k)fluoranthene	23.86	252	442859	4.60	ng	98
38) Benzo(a)pyrene	24.49	252	428501	4.93	ng	98
39) Dibenzo(a,h)anthracene	27.29	278	359322	4.32	ng	99
40) Benzo(g,h,i)perylene	28.14	276	358863	4.12	ng	99

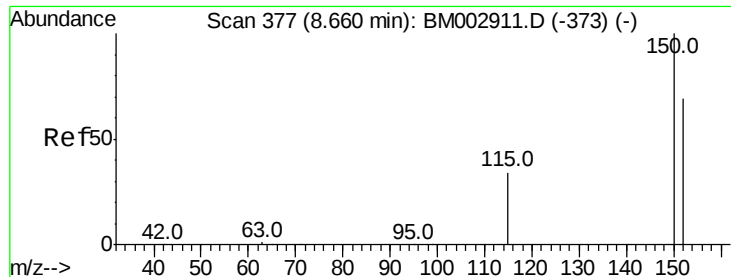
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.66 min Scan# 377

Delta R.T. -0.00 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

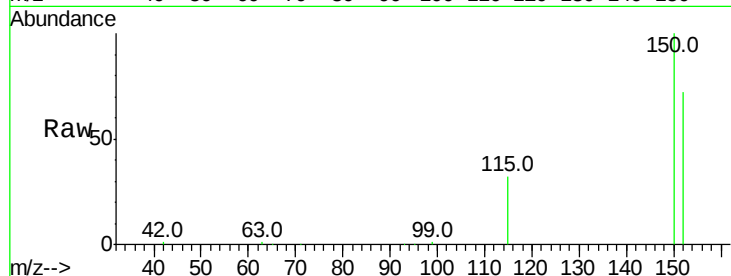
Tot Ion:152 Resp: 104722

Ion Ratio Lower Upper

152 100

150 138.4 113.0 169.6

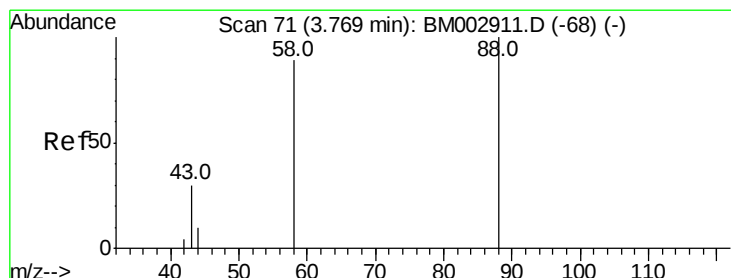
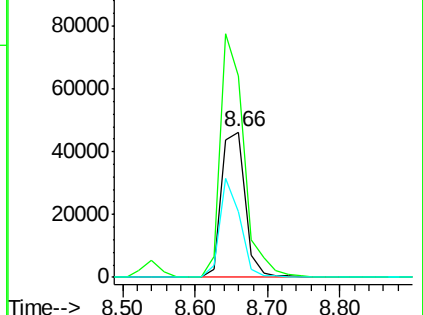
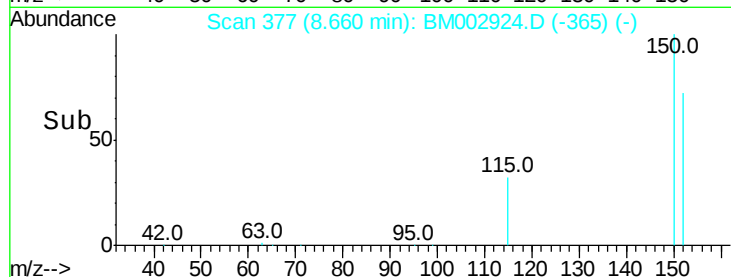
115 45.0 37.9 56.9



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



#2

1,4-Dioxane

Concen: 1.18 ng

RT: 3.77 min Scan# 71

Delta R.T. -0.00 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

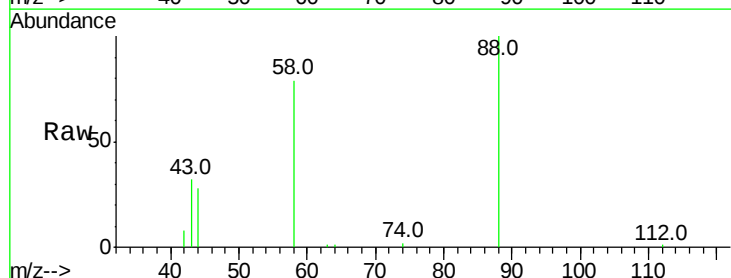
Tgt Ion: 88 Resp: 11235

Ion Ratio Lower Upper

88 100

58 70.4 56.7 85.1

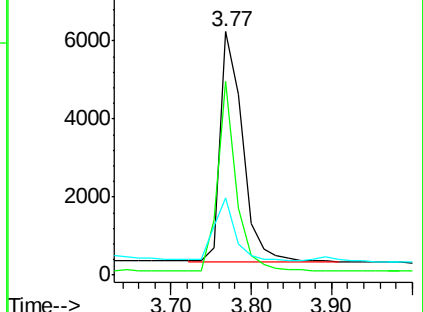
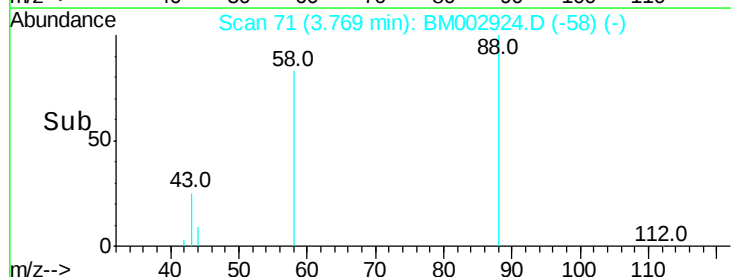
43 26.4 22.0 33.0

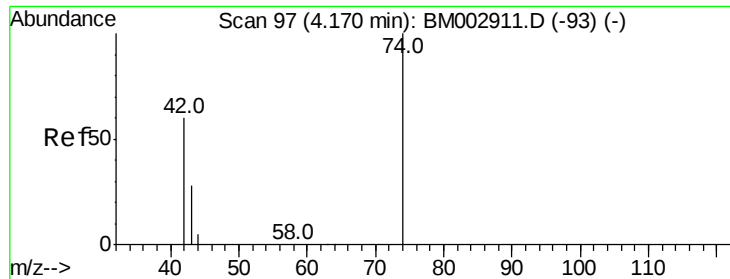


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

n-Nitrosodimethylamine

Concen: 1.41 ng

RT: 4.16 min Scan# 96

Delta R.T. -0.02 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

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RAV-GT-104MS

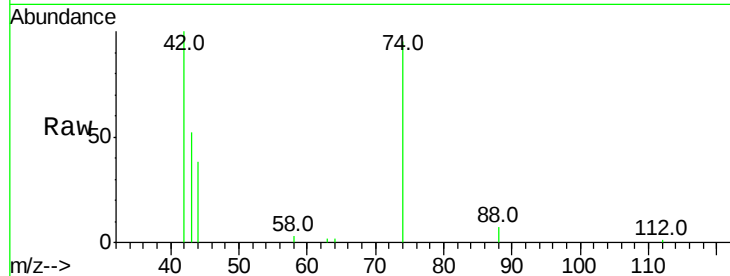
Tot Ion: 42 Resp: 10484

Ion Ratio Lower Upper

42 100

74 149.5 119.7 179.5

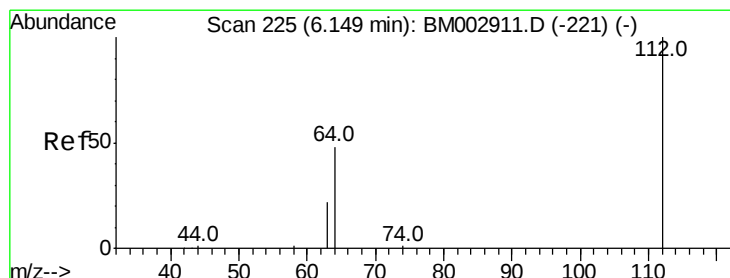
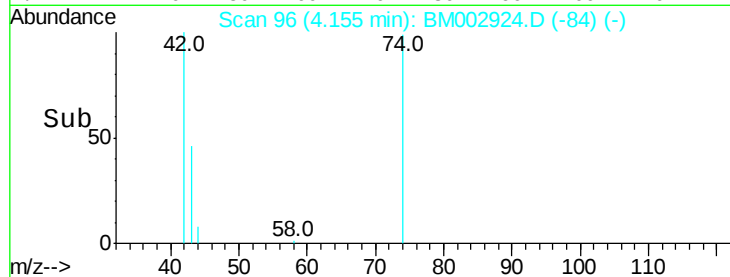
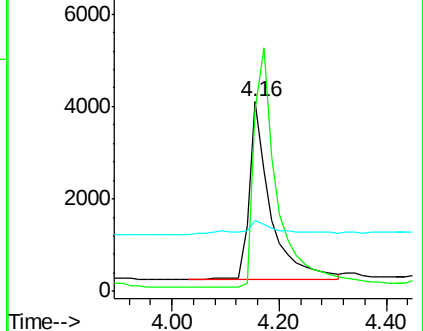
44 8.8 9.8 14.6#



Abundance Ion 42.00 (41.70 to 42.70): BM002911.D (-93) (-)

Ion 74.00 (73.70 to 74.70): BM002911.D (-93) (-)

Ion 44.00 (43.70 to 44.70): BM002911.D (-93) (-)



#4

2-Fluorophenol

Concen: 2.98 ng

RT: 6.12 min Scan# 223

Delta R.T. -0.03 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

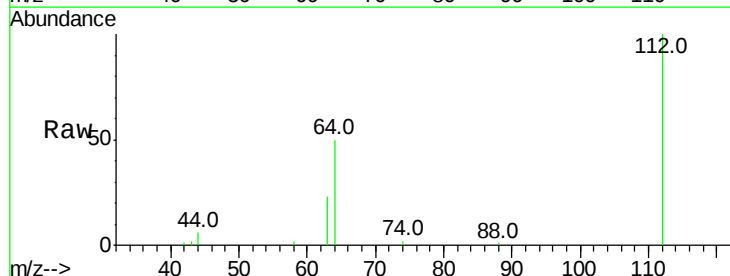
Tgt Ion: 112 Resp: 58380

Ion Ratio Lower Upper

112 100

64 51.6 42.0 63.0

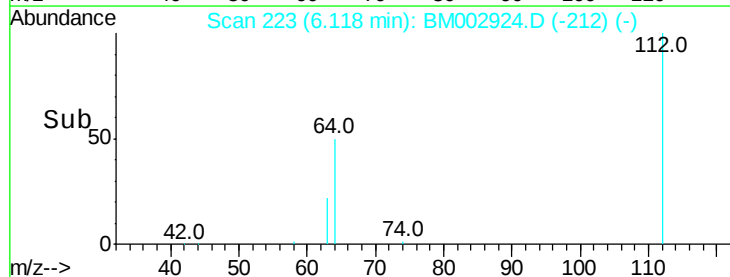
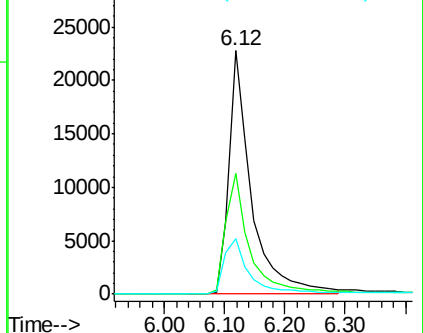
63 24.6 20.0 30.0

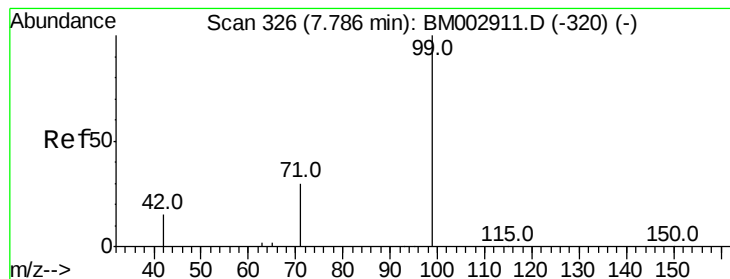


Abundance Ion 112.00 (111.70 to 112.70): BM002911.D (-221) (-)

Ion 64.00 (63.70 to 64.70): BM002911.D (-221) (-)

Ion 63.00 (62.70 to 63.70): BM002911.D (-221) (-)





#5

Phenol-d6

Concen: 2.04 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.02 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

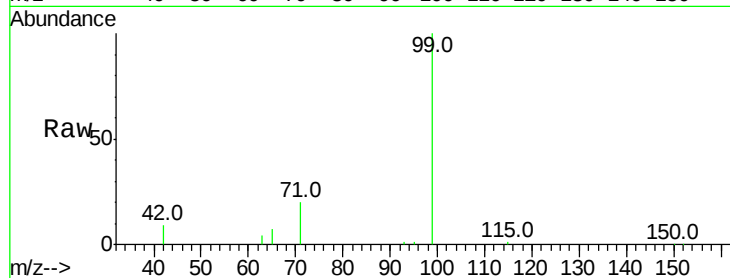
Tot Ion: 99 Resp: 50993

Ion Ratio Lower Upper

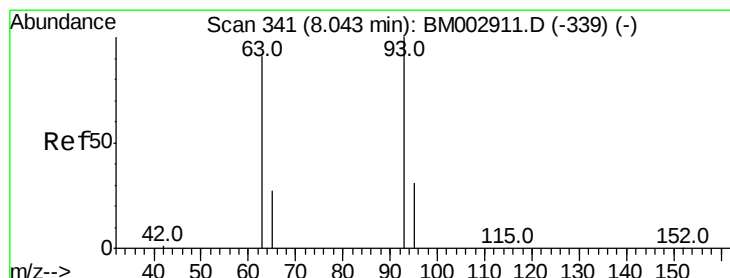
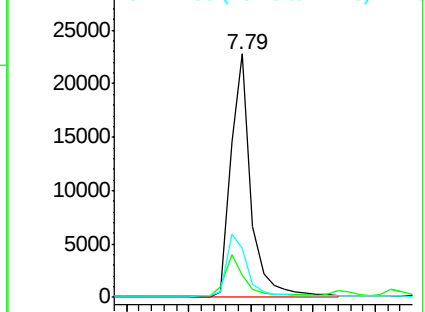
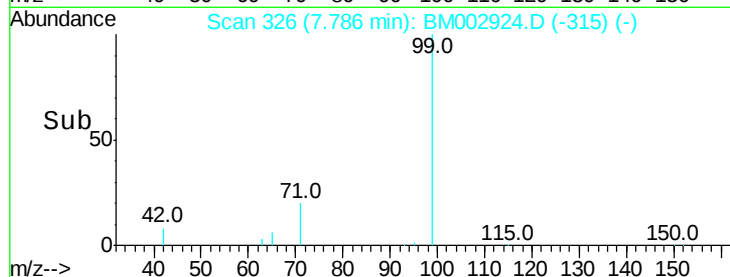
99 100

42 16.0 12.4 18.6

71 27.1 21.4 32.0



Abundance Ion 99.00 (98.70 to 99.70): BM002924.D (-315) (-)



#6

bis(2-Chloroethyl)ether

Concen: 3.76 ng

RT: 8.04 min Scan# 341

Delta R.T. -0.02 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

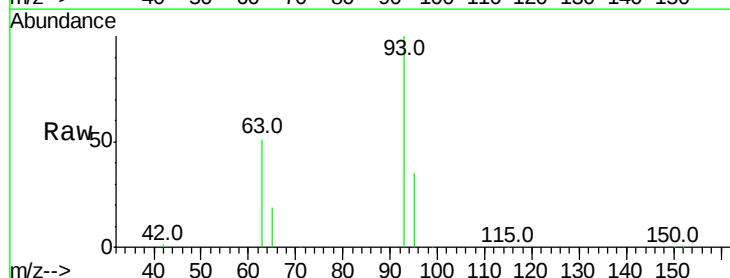
Tgt Ion: 93 Resp: 89803

Ion Ratio Lower Upper

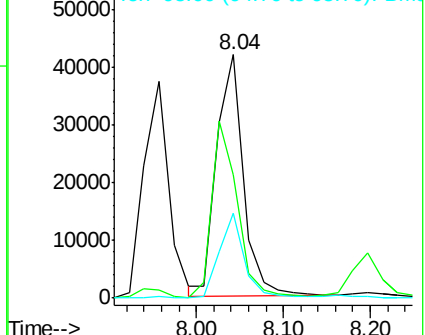
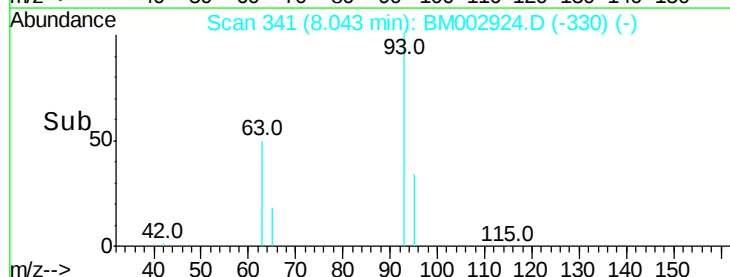
93 100

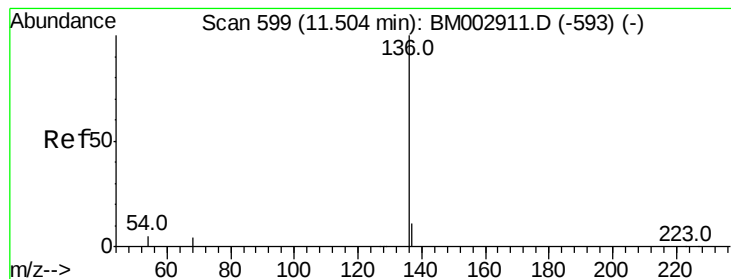
63 69.7 52.9 79.3

95 32.2 25.2 37.8



Abundance Ion 93.00 (92.70 to 93.70): BM002924.D (-330) (-)





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.49 min Scan# 599

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

Tot Ion:136 Resp: 445467

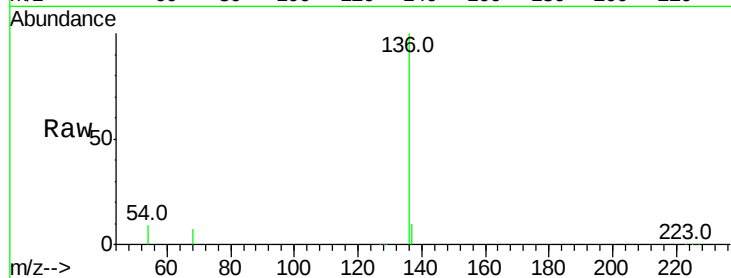
Ion Ratio Lower Upper

136 100

137 10.1 9.1 13.7

54 8.8 3.5 5.3#

68 7.4 3.3 4.9#

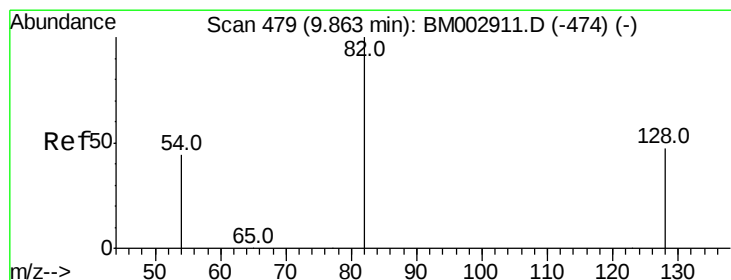
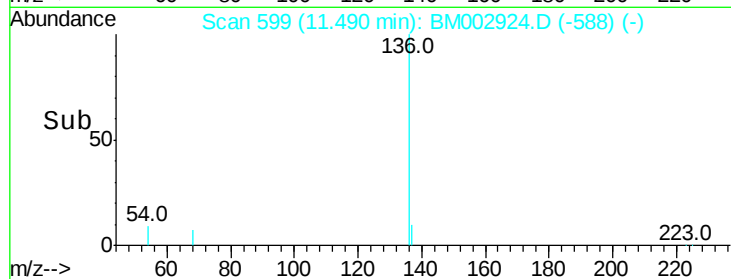
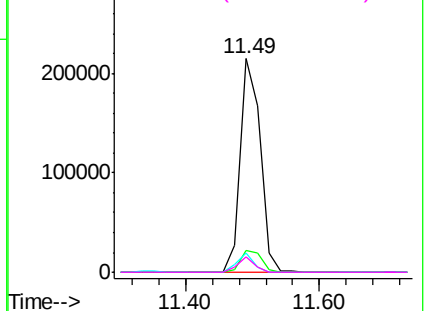


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 4.12 ng

RT: 9.85 min Scan# 478

Delta R.T. -0.02 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

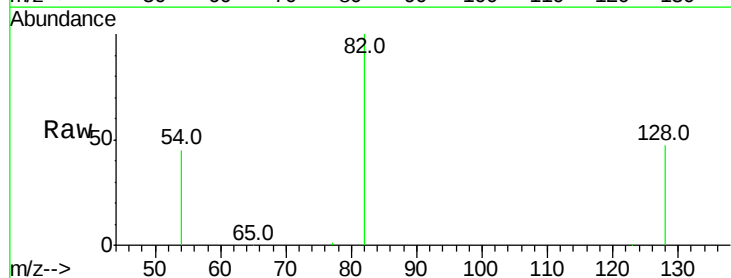
Tgt Ion: 82 Resp: 87840

Ion Ratio Lower Upper

82 100

128 47.1 34.1 51.1

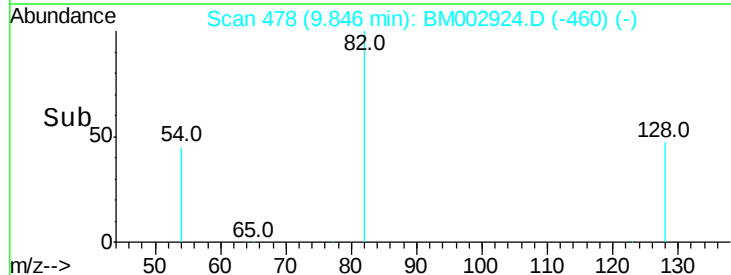
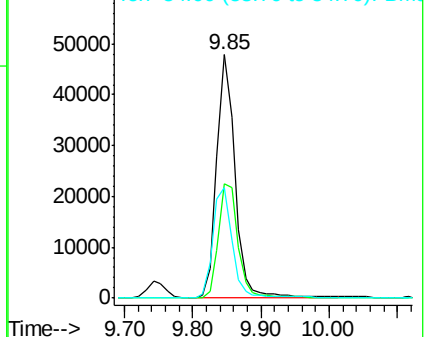
54 45.3 42.6 63.8

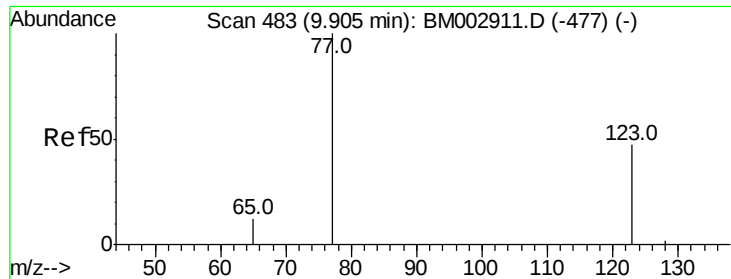


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 4.11 ng

RT: 9.89 min Scan# 482

Delta R.T. -0.03 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

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RAV-GT-104MS

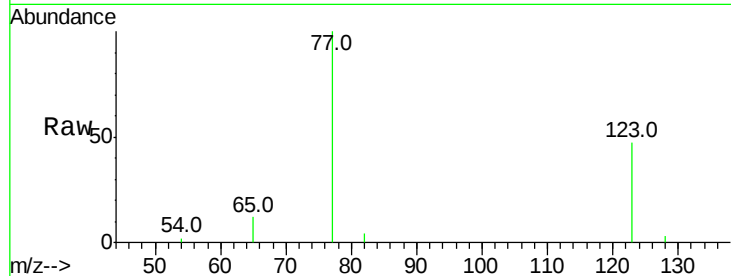
Tot Ion: 77 Resp: 92985

Ion Ratio Lower Upper

77 100

123 52.3 41.0 61.4

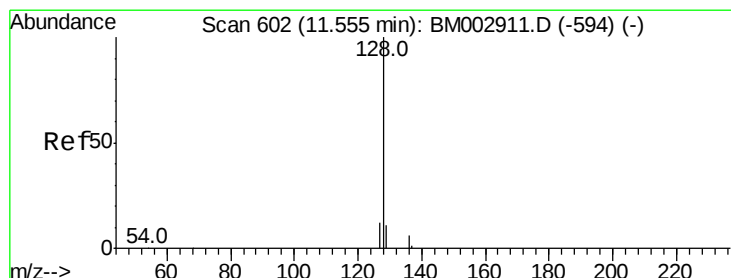
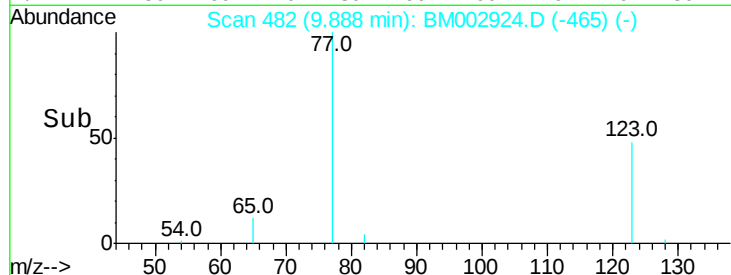
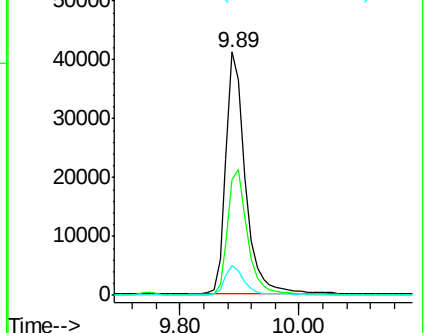
65 12.2 9.7 14.5



Abundance Ion 77.00 (76.70 to 77.70): BM002924.D (-477) (-)

Ion 123.00 (122.70 to 123.70): BM002924.D (-477) (-)

Ion 65.00 (64.70 to 65.70): BM002924.D (-477) (-)



#10

Naphthalene

Concen: 3.50 ng

RT: 11.54 min Scan# 602

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

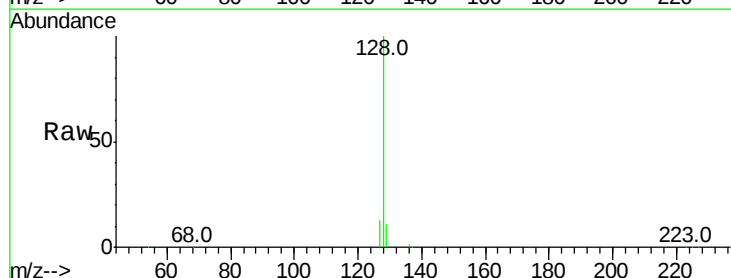
Tgt Ion: 128 Resp: 346143

Ion Ratio Lower Upper

128 100

129 10.6 9.4 14.2

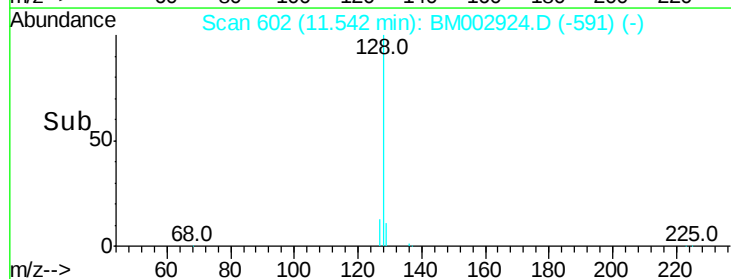
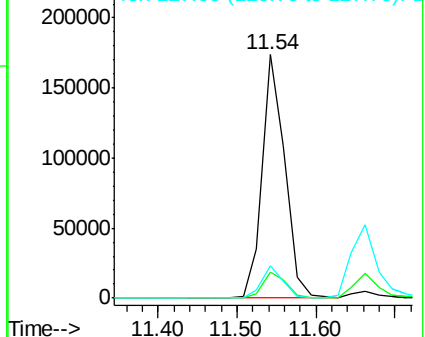
127 13.2 9.6 14.4

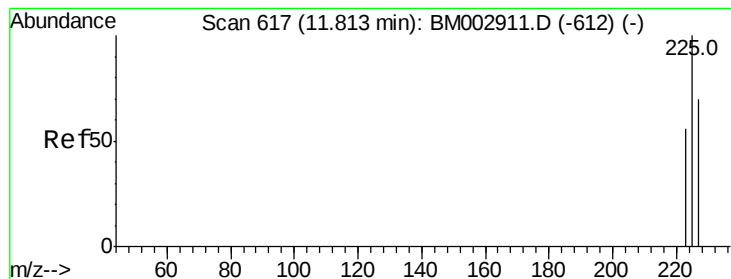


Abundance Ion 128.00 (127.70 to 128.70): BM002924.D (-591) (-)

Ion 129.00 (128.70 to 129.70): BM002924.D (-591) (-)

Ion 127.00 (126.70 to 127.70): BM002924.D (-591) (-)





#11

Hexachlorobutadiene

Concen: 3.10 ng

RT: 11.80 min Scan# 617

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

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RAV-GT-104MS

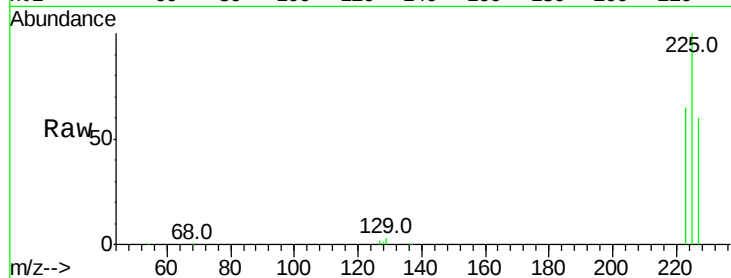
Tot Ion:225 Resp: 49460

Ion Ratio Lower Upper

225 100

223 62.6 50.1 75.1

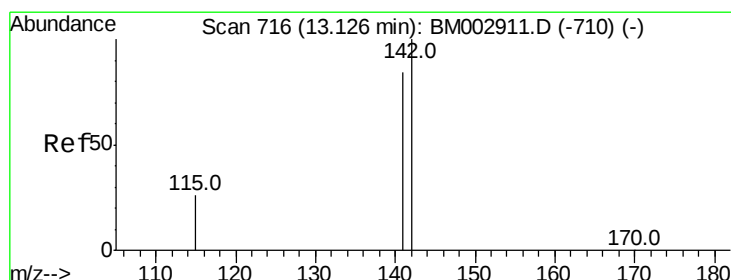
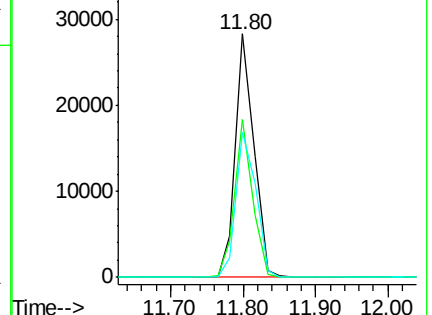
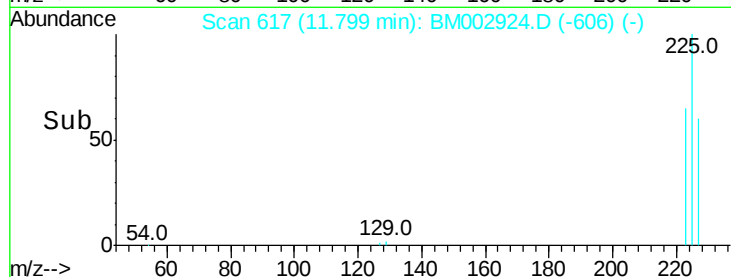
227 64.0 51.2 76.8



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#12

2-Methylnaphthalene

Concen: 3.81 ng

RT: 13.11 min Scan# 716

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

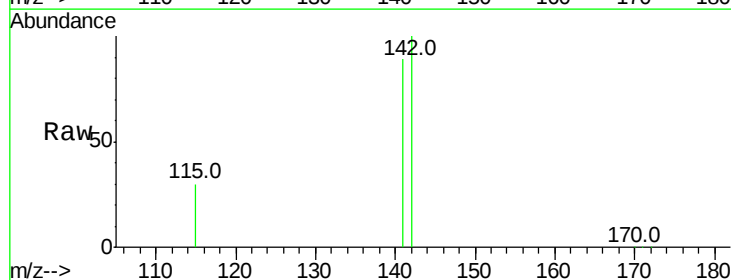
Tgt Ion:142 Resp: 254311

Ion Ratio Lower Upper

142 100

141 89.5 69.4 104.0

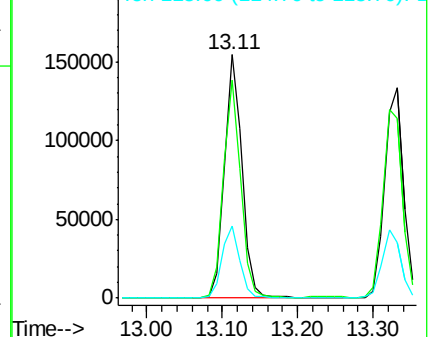
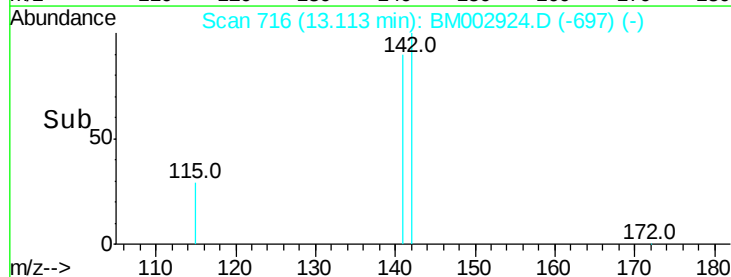
115 29.6 22.7 34.1

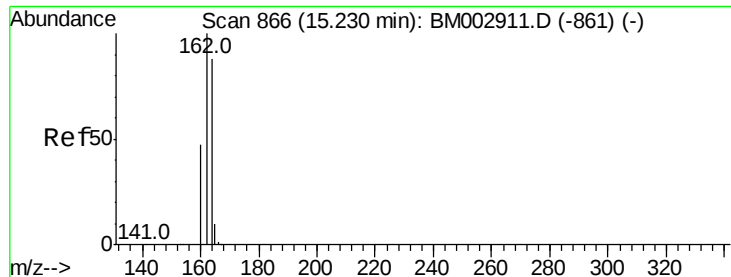


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.23 min Scan# 867

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

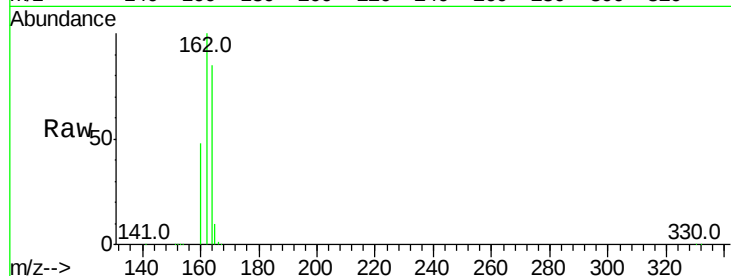
Tot Ion:164 Resp: 225672

Ion Ratio Lower Upper

164 100

162 117.1 79.6 119.4

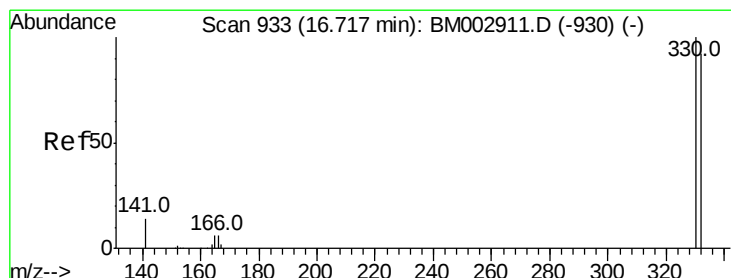
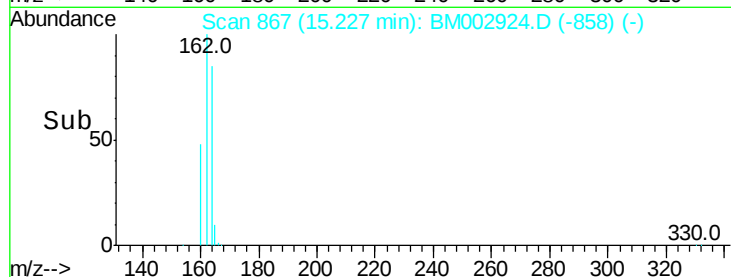
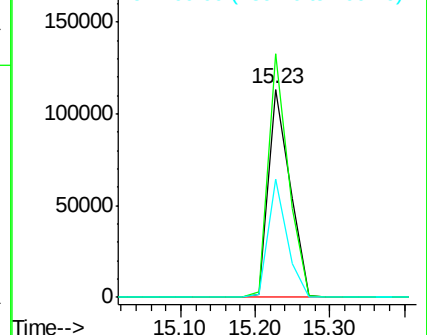
160 56.7 33.1 49.7#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 9.47 ng

RT: 16.71 min Scan# 934

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

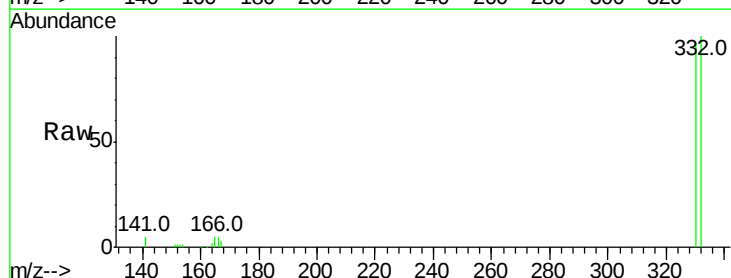
Tgt Ion:330 Resp: 83922

Ion Ratio Lower Upper

330 100

332 98.5 76.6 115.0

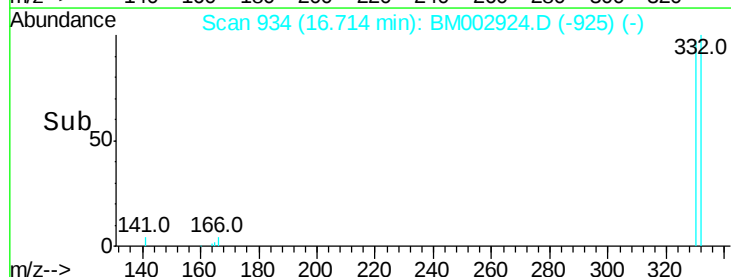
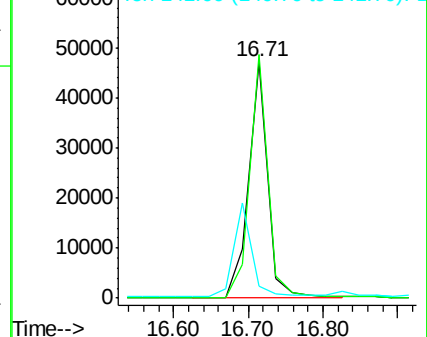
141 0.0 0.0 0.0

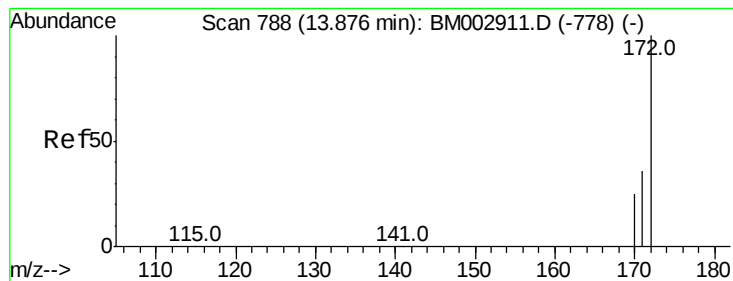


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

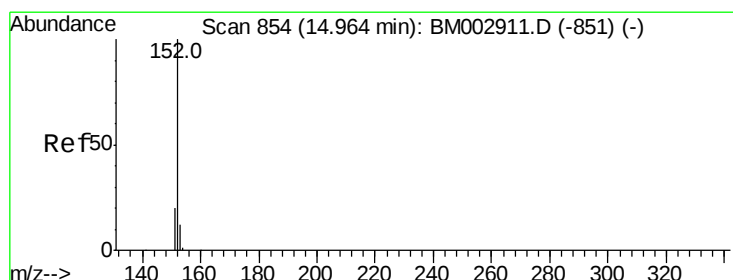
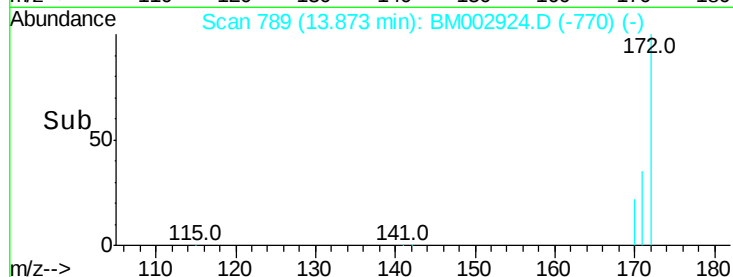
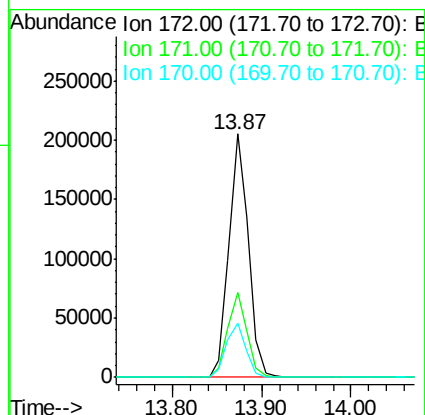
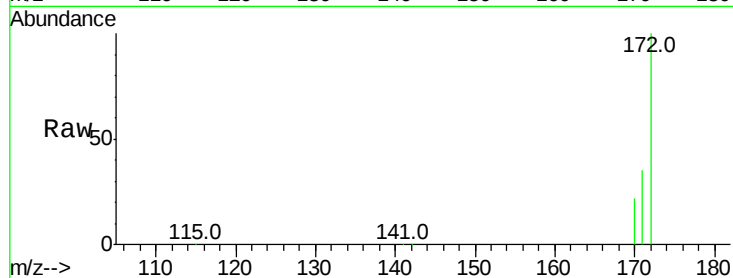




#15
2-Fluorobiphenyl
Concen: 4.26 ng
RT: 13.87 min Scan# 789
Delta R.T. -0.01 min
Lab File: BM002924.D
Acq: 15 Oct 2015 21:10

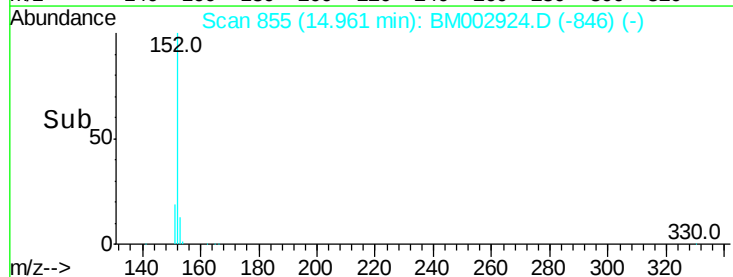
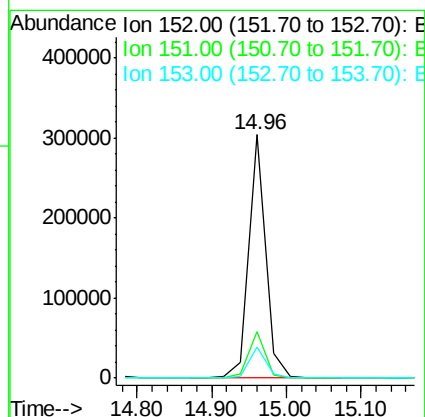
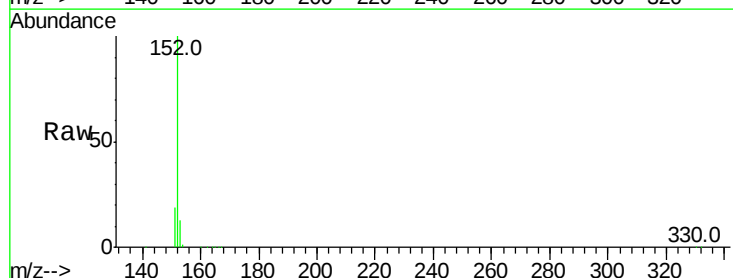
Instrument :
BNA_M
ClientSampleId :
RAV-GT-104MS

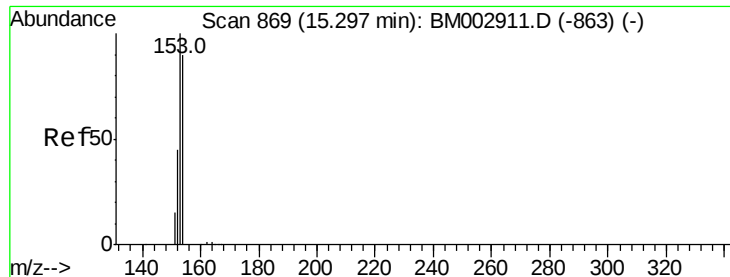
Tot Ion:172 Resp: 307505
Ion Ratio Lower Upper
172 100
171 34.9 26.1 39.1
170 22.5 15.7 23.5



#16
Acenaphthylene
Concen: 4.87 ng
RT: 14.96 min Scan# 855
Delta R.T. -0.01 min
Lab File: BM002924.D
Acq: 15 Oct 2015 21:10

Tgt Ion:152 Resp: 480065
Ion Ratio Lower Upper
152 100
151 19.2 15.3 22.9
153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 4.15 ng

RT: 15.29 min Scan# 870

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

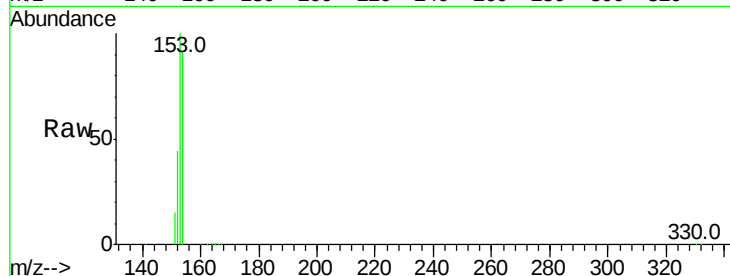
Tot Ion:154 Resp: 280644

Ion Ratio Lower Upper

154 100

153 111.2 0.0 0.0#

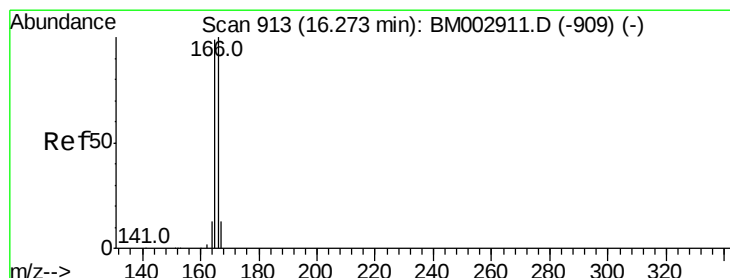
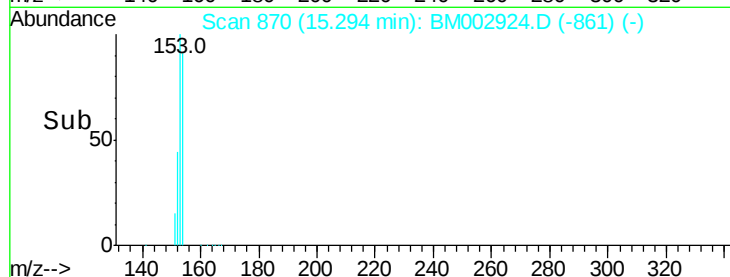
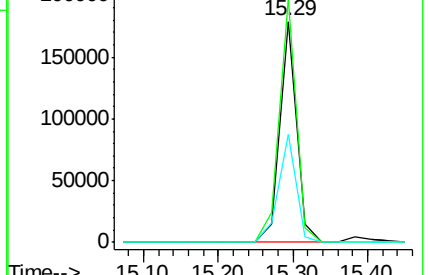
152 51.1 0.0 0.0#



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



#18

Fluorene

Concen: 4.63 ng

RT: 16.27 min Scan# 914

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

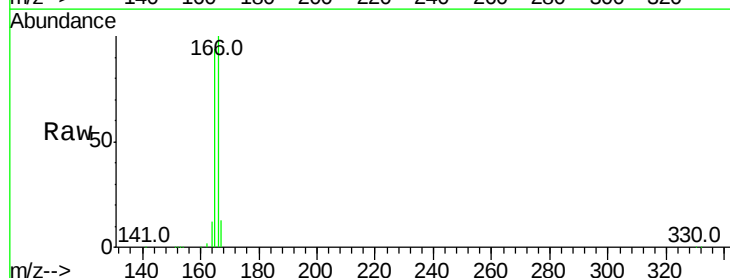
Tgt Ion:166 Resp: 373659

Ion Ratio Lower Upper

166 100

165 96.1 77.3 115.9

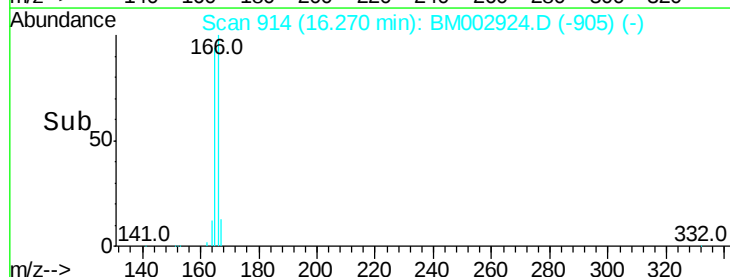
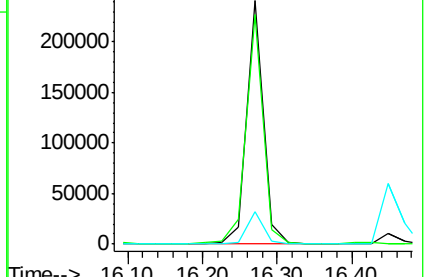
167 13.5 10.9 16.3

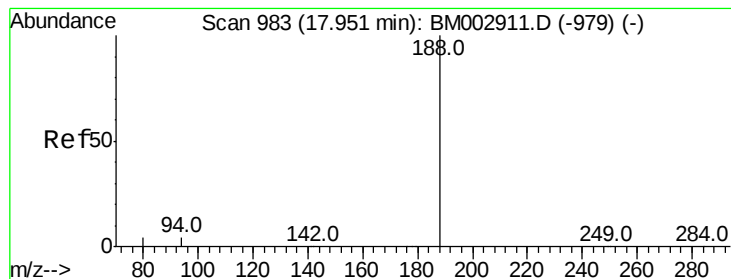


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.95 min Scan# 984

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

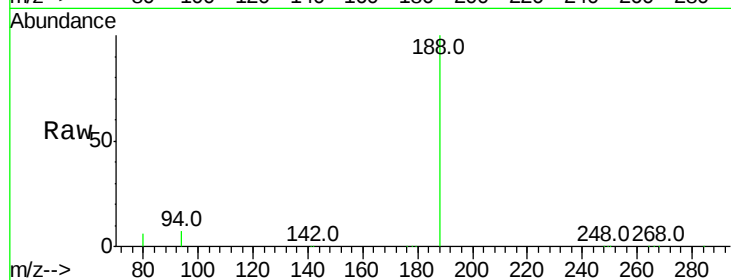
Tot Ion:188 Resp: 533952

Ion Ratio Lower Upper

188 100

94 6.6 15.2 22.8#

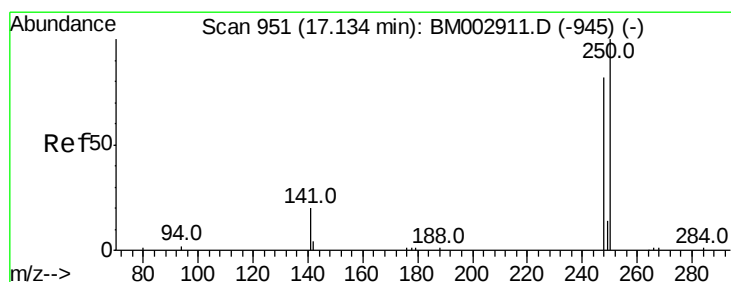
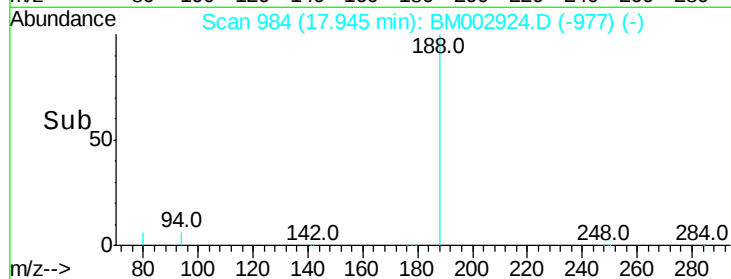
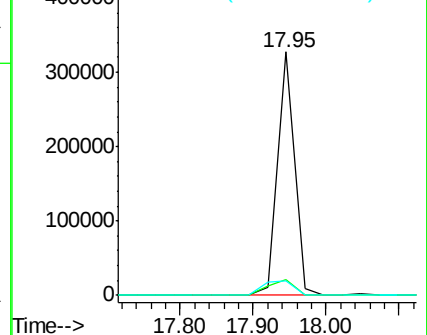
80 5.9 15.9 23.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#20

4-Bromophenyl-phenylether

Concen: 4.31 ng

RT: 17.13 min Scan# 952

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

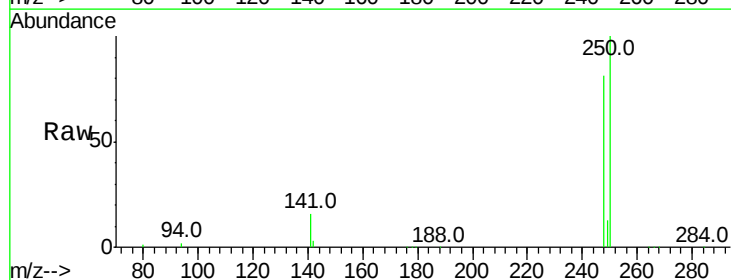
Tgt Ion:248 Resp: 95373

Ion Ratio Lower Upper

248 100

250 112.5 71.4 107.2#

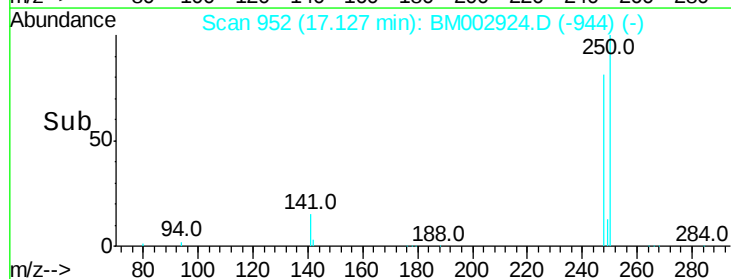
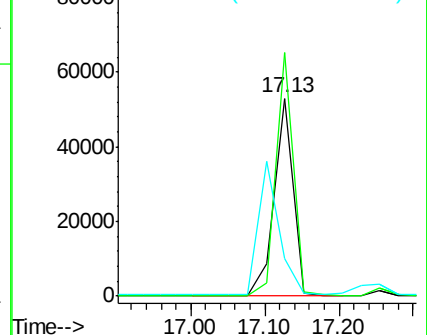
141 0.0 54.6 82.0#

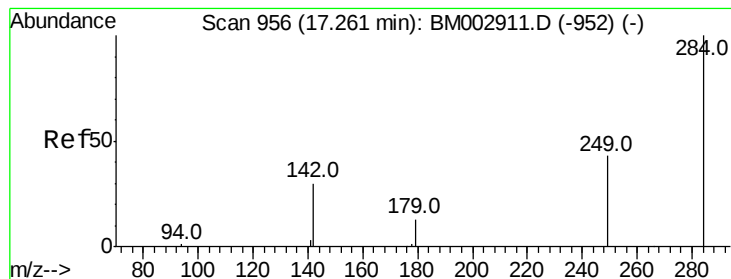


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 4.62 ng

RT: 17.26 min Scan# 957

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

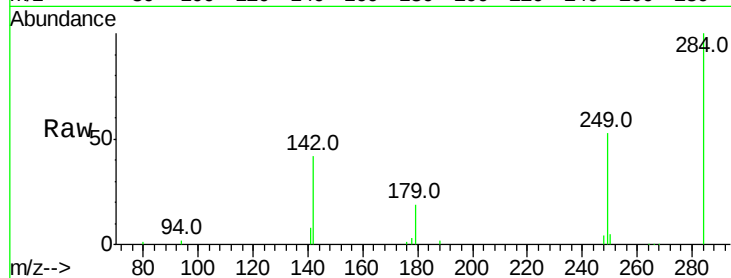
Tot Ion:284 Resp: 100352

Ion Ratio Lower Upper

284 100

142 35.0 0.0 0.0#

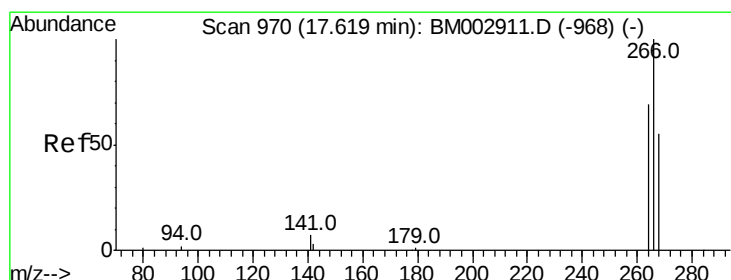
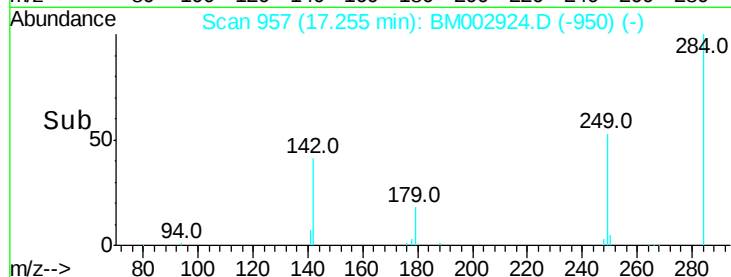
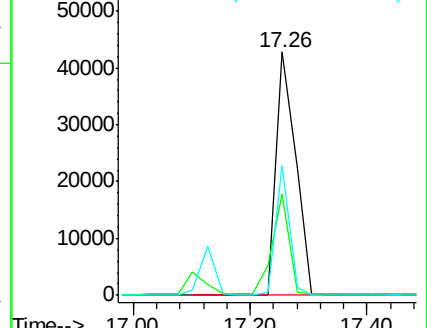
249 37.2 20.7 31.1#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 22.55 ng

RT: 17.61 min Scan# 971

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

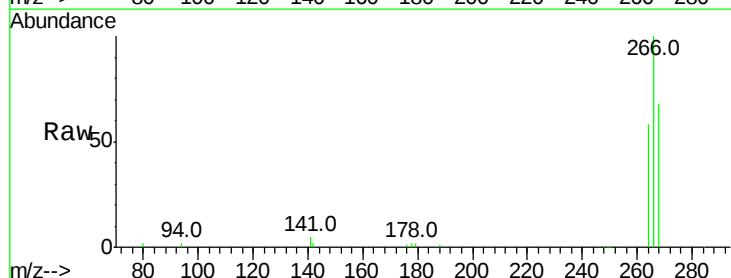
Tgt Ion:266 Resp: 56928

Ion Ratio Lower Upper

266 100

268 68.4 58.3 87.5

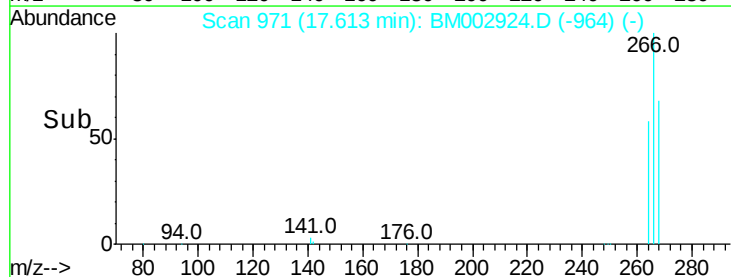
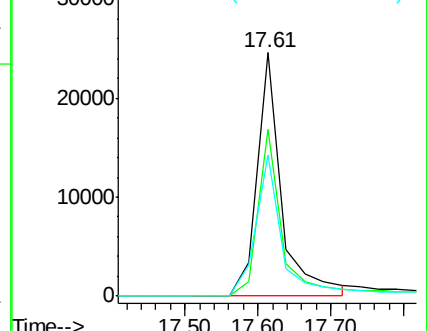
264 57.9 54.2 81.2

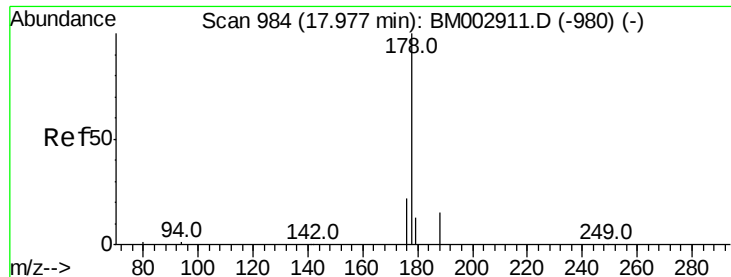


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#23

Phenanthrene

Concen: 3.89 ng

RT: 18.00 min Scan# 986

Delta R.T. 0.02 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

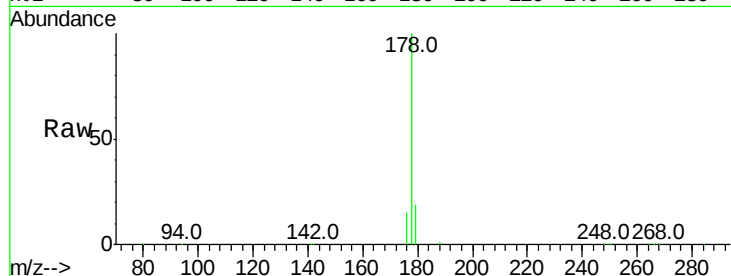
Tot Ion:178 Resp: 483768

Ion Ratio Lower Upper

178 100

176 0.0 14.6 21.8#

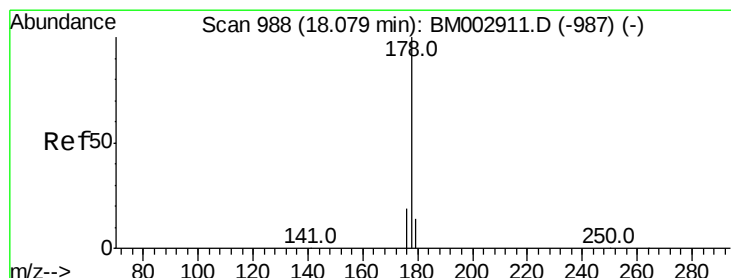
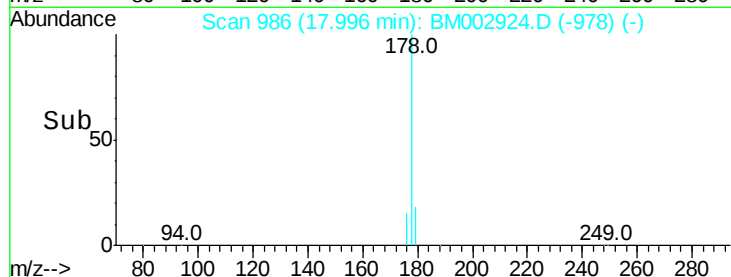
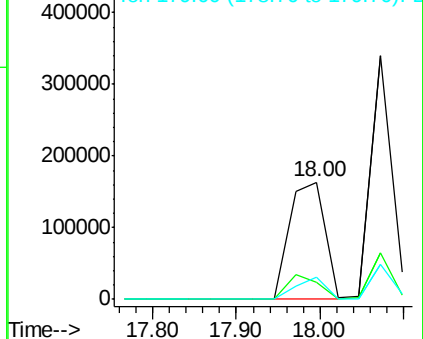
179 16.1 12.5 18.7



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



#24

Anthracene

Concen: 4.96 ng

RT: 18.07 min Scan# 989

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

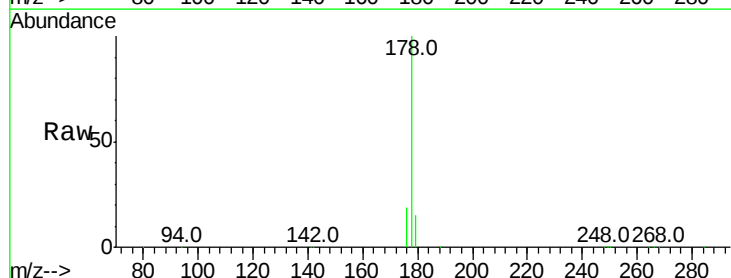
Tgt Ion:178 Resp: 587645

Ion Ratio Lower Upper

178 100

176 18.5 13.9 20.9

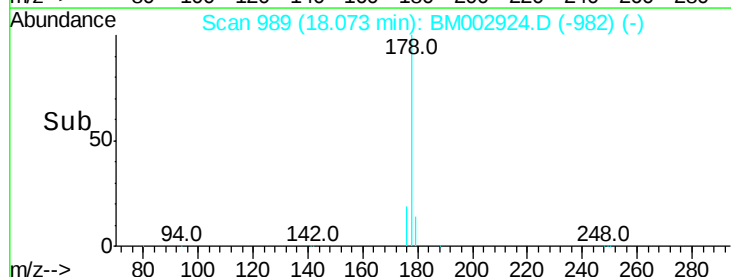
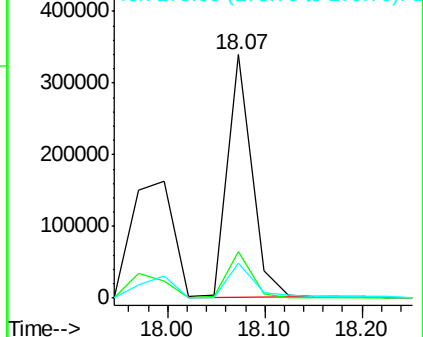
179 15.4 12.6 18.8

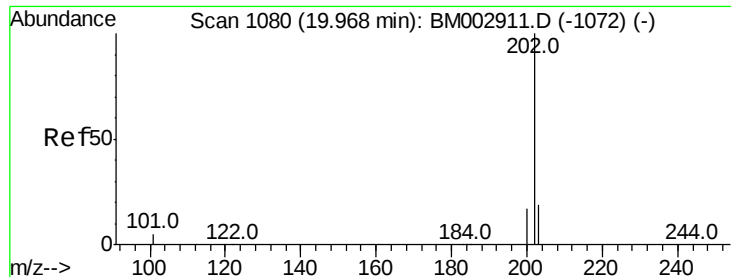


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

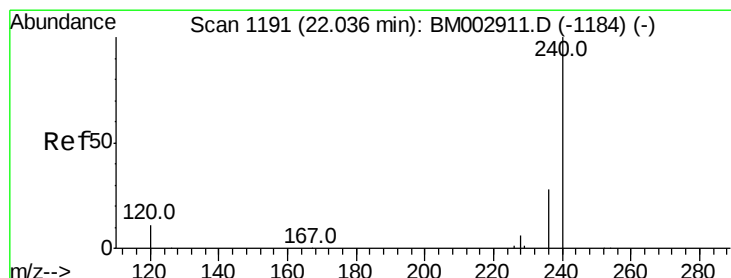
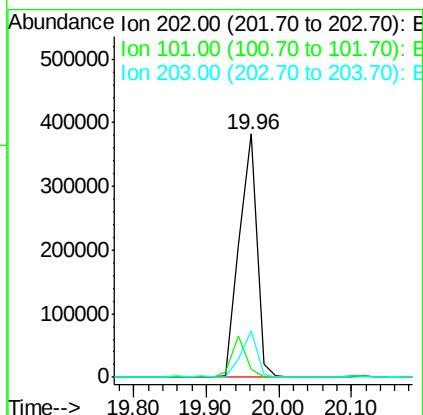
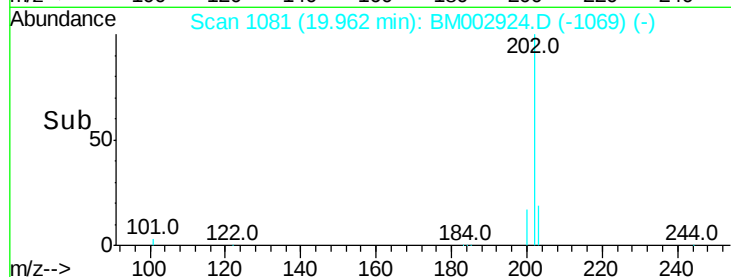
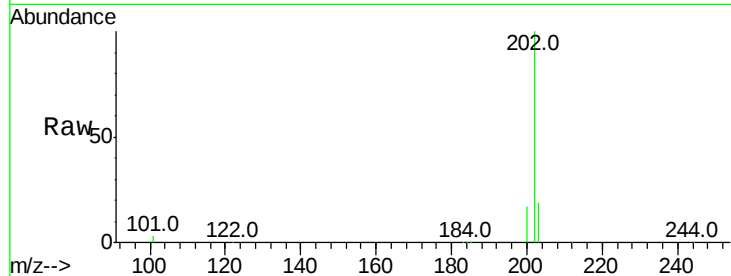




#25
 Fluoranthene
 Concen: 4.61 ng
 RT: 19.96 min Scan# 1081
 Delta R.T. 0.01 min
 Lab File: BM002924.D
 Acq: 15 Oct 2015 21:10

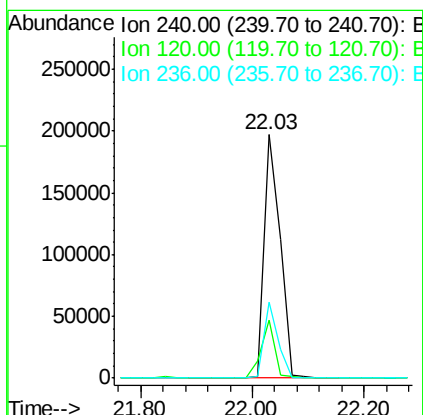
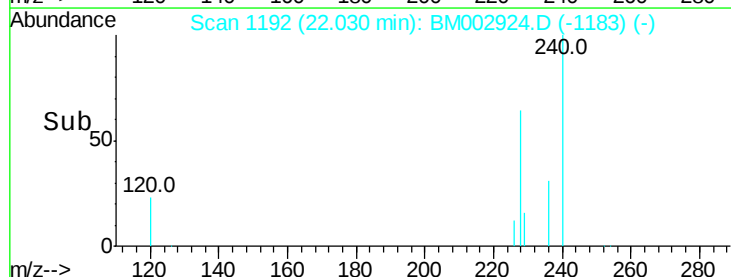
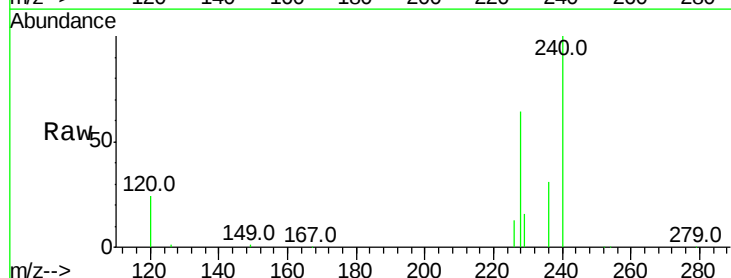
Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-104MS

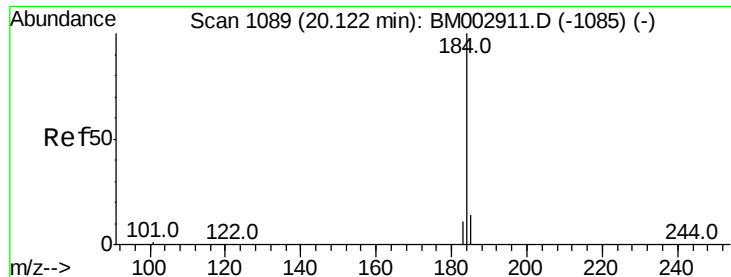
Tot Ion	Ratio	Lower	Upper
202	100		
101	14.0	11.0	16.6
203	17.3	13.8	20.6



#26
 Chrysene-d12
 Concen: 5.00 ng
 RT: 22.03 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BM002924.D
 Acq: 15 Oct 2015 21:10

Tgt Ion	Ratio	Lower	Upper
240	100		
120	23.6	3.3	4.9#
236	31.4	19.5	29.3#





#27

Benzidine

Concen: 0.16 ng

RT: 20.15 min Scan# 1092

Delta R.T. 0.02 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

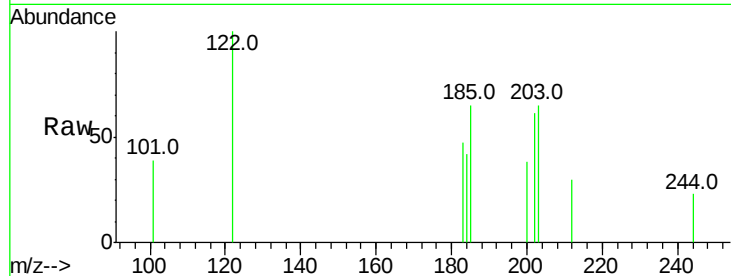
Tot Ion:184 Resp: 496

Ion Ratio Lower Upper

184 100

185 154.1 12.0 18.0#

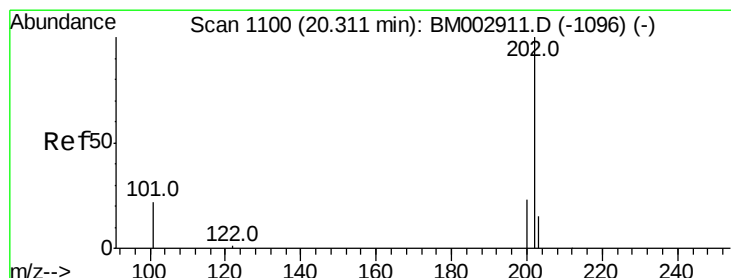
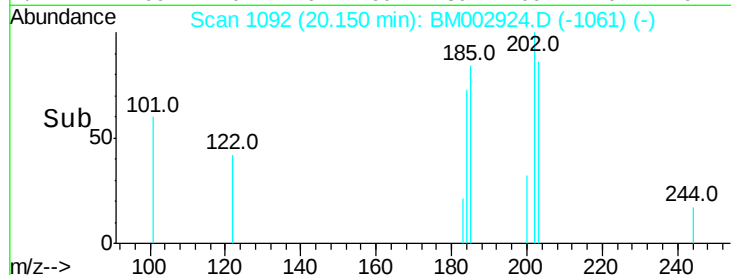
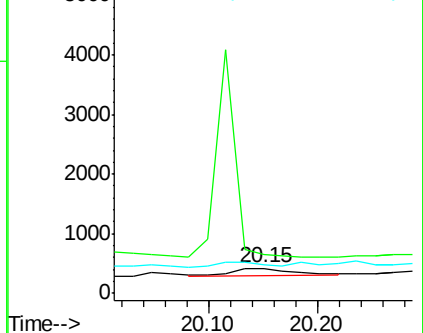
183 112.7 8.9 13.3#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: 6.36 ng

RT: 20.30 min Scan# 1101

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

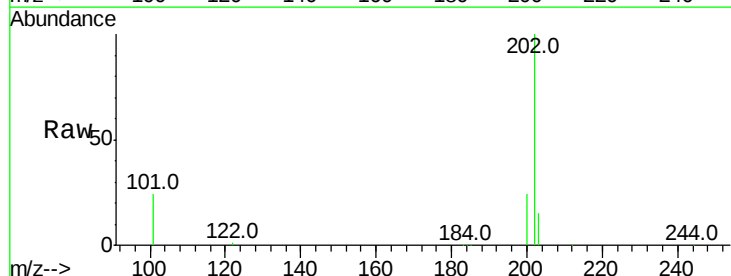
Tgt Ion:202 Resp: 724053

Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.4

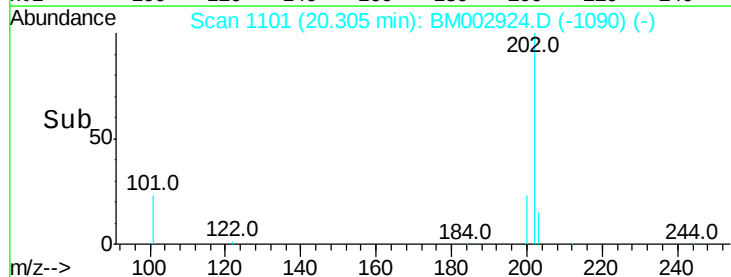
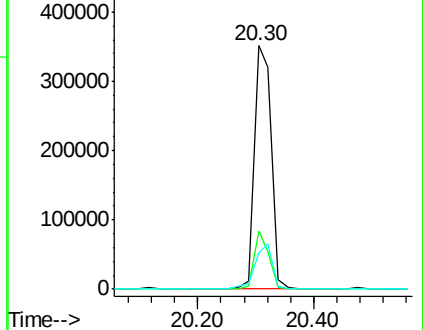
203 18.6 13.8 20.8

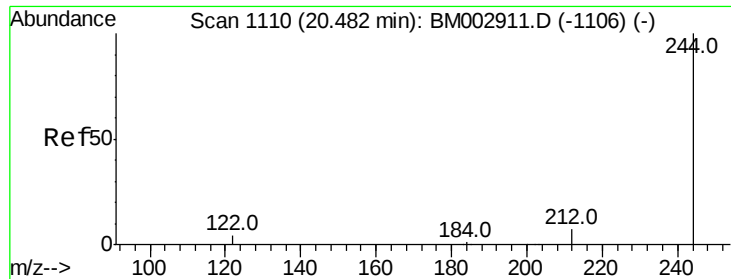


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 5.21 ng

RT: 20.48 min Scan# 1111

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

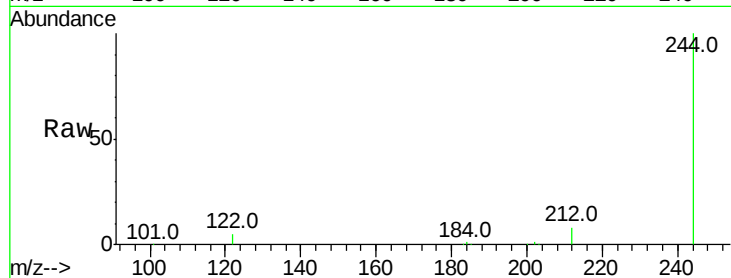
Tot Ion:244 Resp: 300874

Ion Ratio Lower Upper

244 100

212 8.2 5.6 8.4

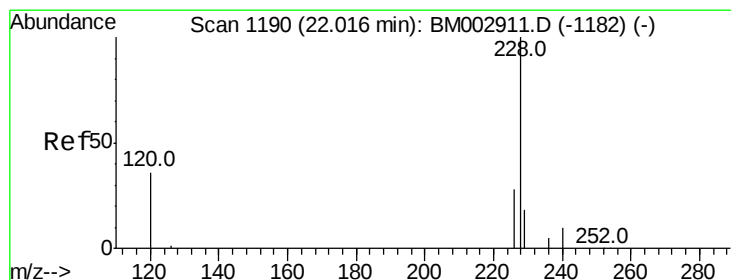
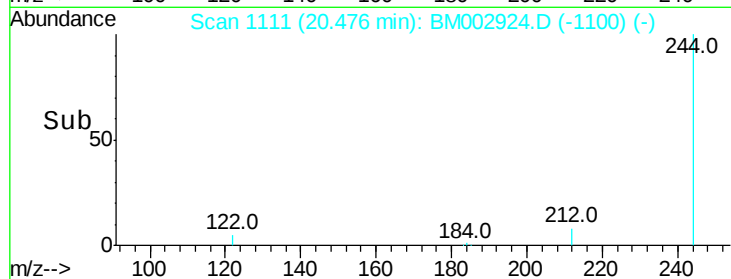
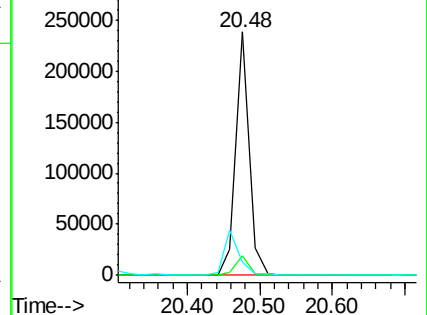
122 5.3 2.2 3.2#



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



#30

Benzo(a)anthracene

Concen: 4.80 ng

RT: 22.01 min Scan# 1191

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

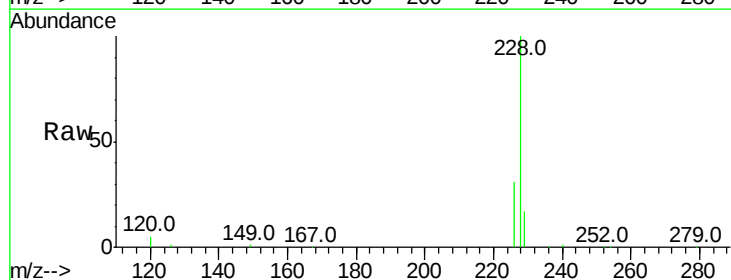
Tgt Ion:228 Resp: 535727

Ion Ratio Lower Upper

228 100

226 30.5 19.0 28.6#

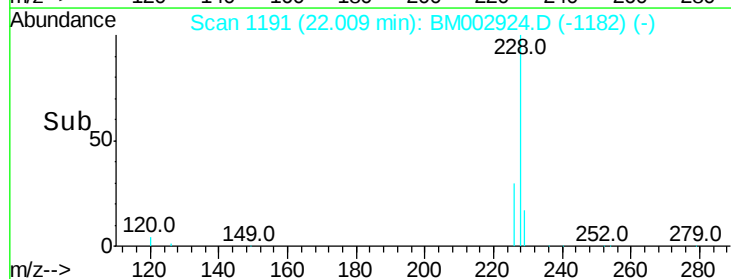
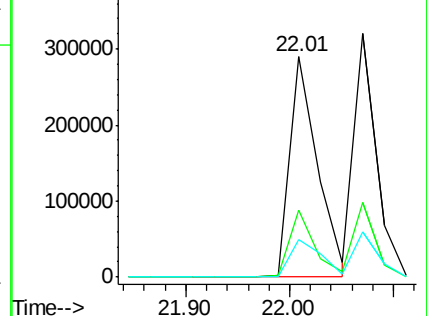
229 16.9 16.8 25.2

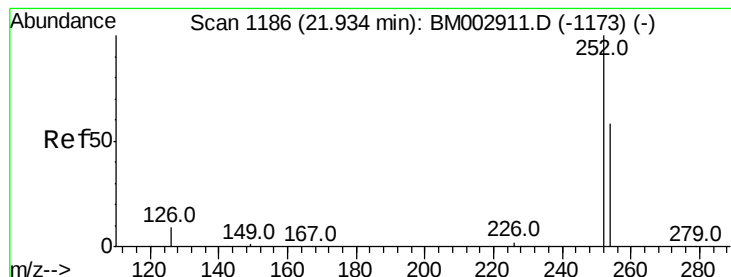


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

3,3'-Dichlorobenzidine

Concen: 0.75 ng

RT: 21.93 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

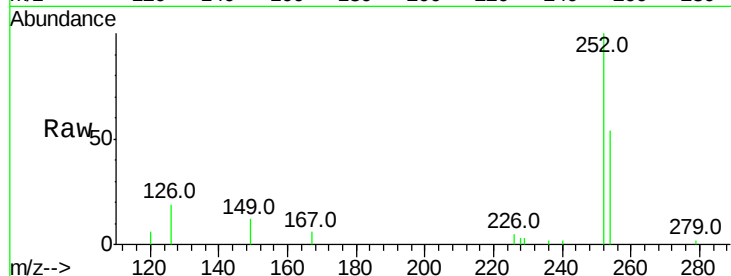
Tot Ion:252 Resp: 28359

Ion Ratio Lower Upper

252 100

254 54.3 54.1 81.1

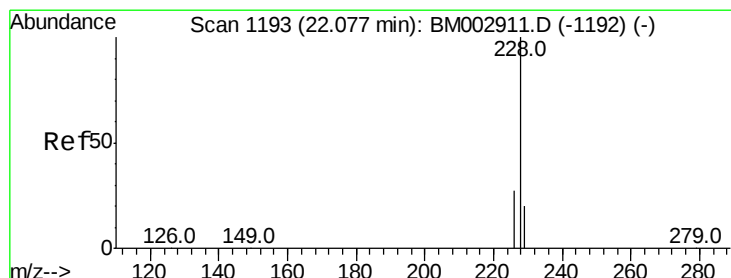
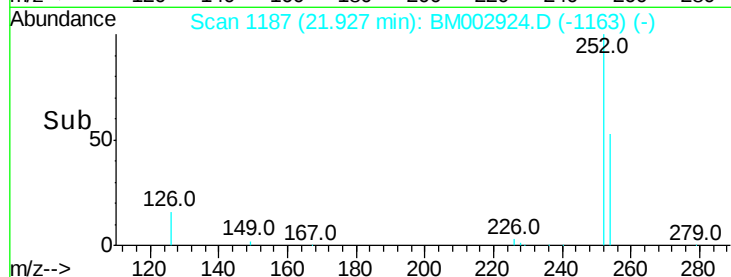
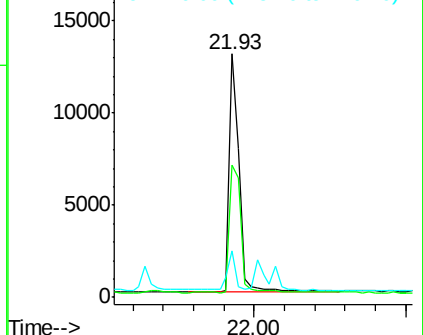
126 18.9 4.1 6.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#32

Chrysene

Concen: 4.60 ng

RT: 22.07 min Scan# 1194

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

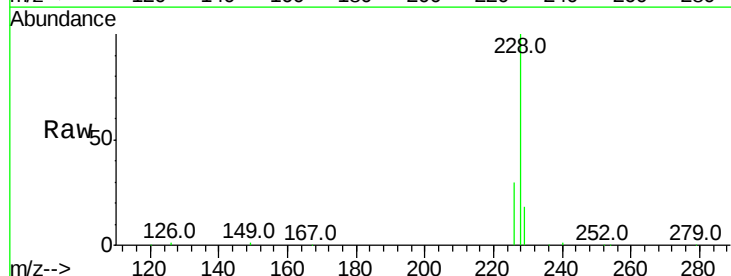
Tgt Ion:228 Resp: 480115

Ion Ratio Lower Upper

228 100

226 30.5 20.6 30.8

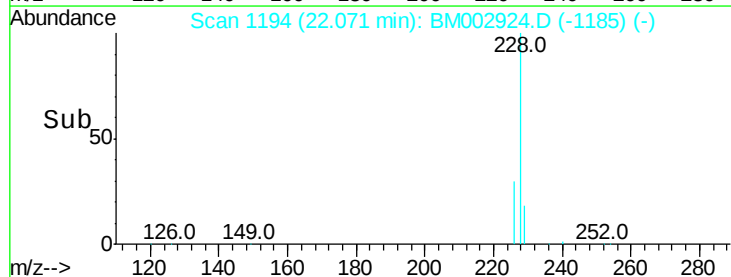
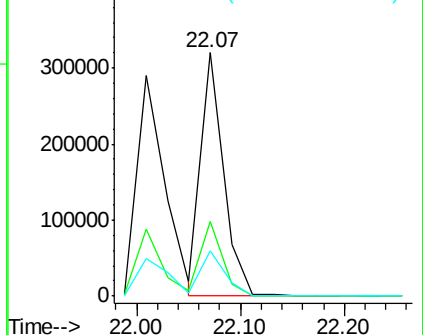
229 18.5 17.4 26.2

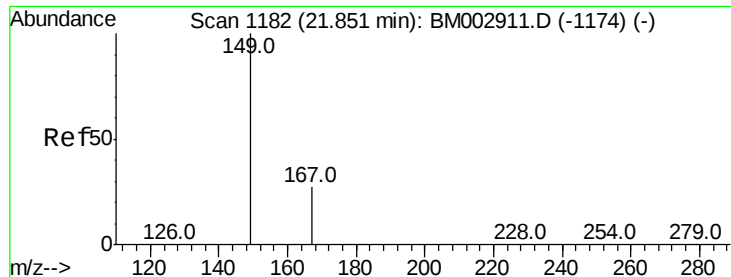


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Bis(2-ethylhexyl)phthalate

Concen: 5.18 ng

RT: 21.85 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

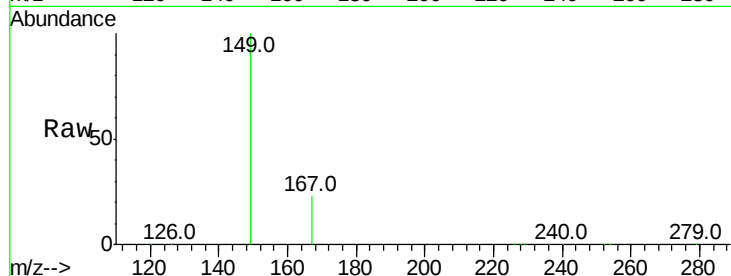
Tot Ion:149 Resp: 447085

Ion Ratio Lower Upper

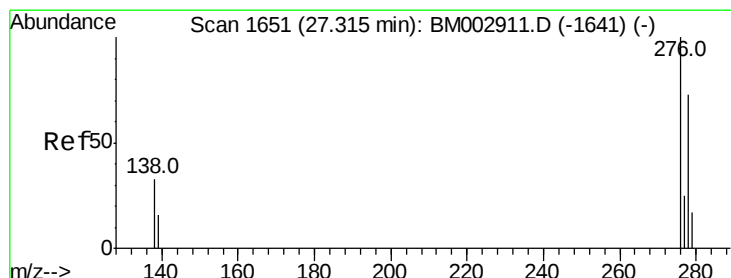
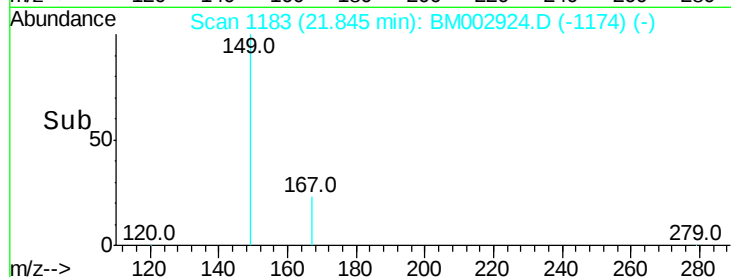
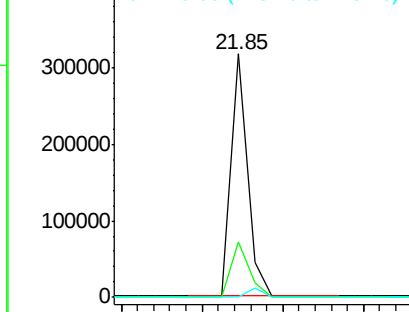
149 100

167 24.9 17.2 25.8

279 0.0 2.2 3.4#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#34

Indeno(1,2,3-cd)pyrene

Concen: 4.09 ng

RT: 27.30 min Scan# 1651

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

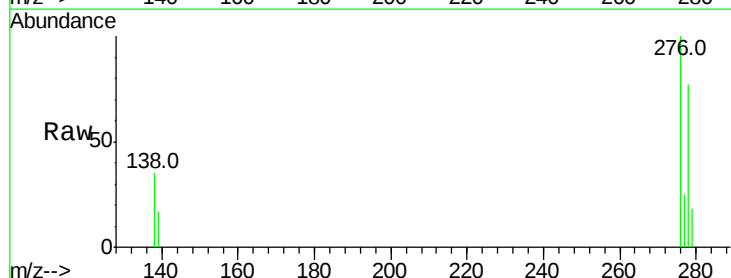
Tgt Ion:276 Resp: 438935

Ion Ratio Lower Upper

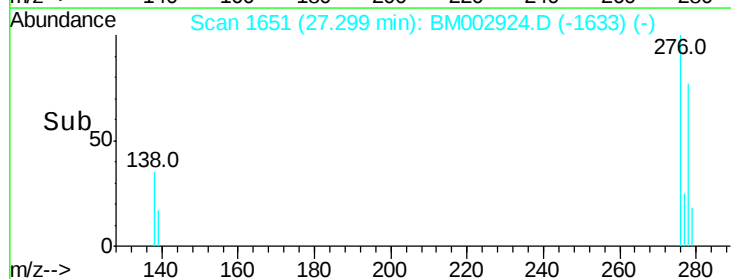
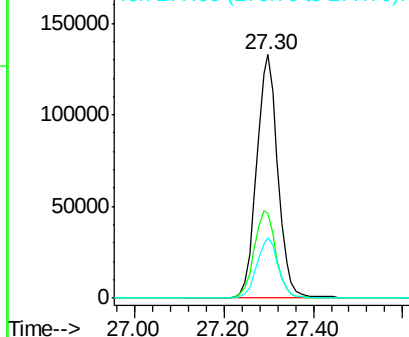
276 100

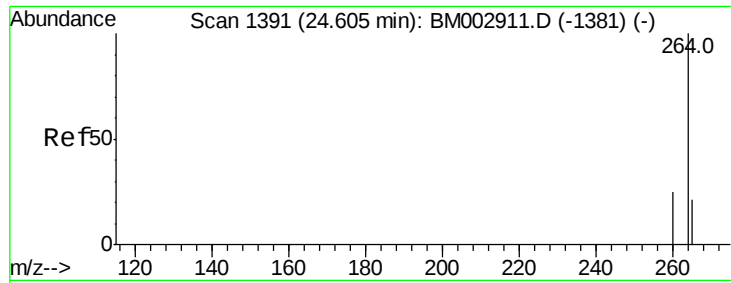
138 36.6 29.0 43.6

277 24.8 19.8 29.8



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

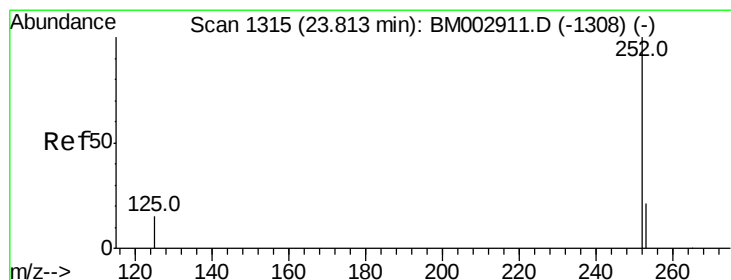
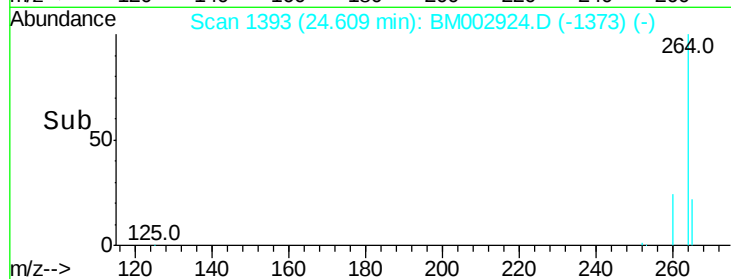
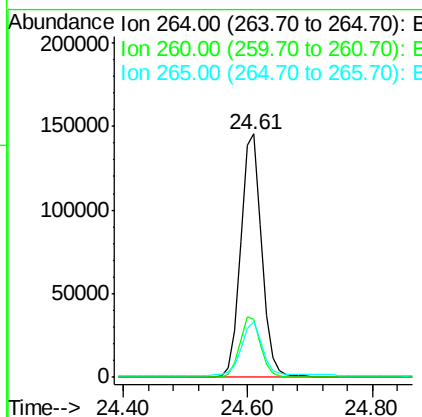
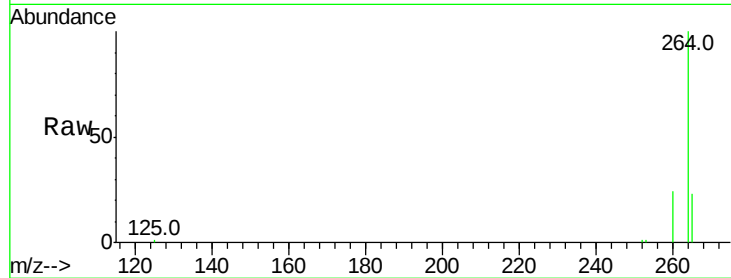




#35
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.61 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: BM002924.D
 Acq: 15 Oct 2015 21:10

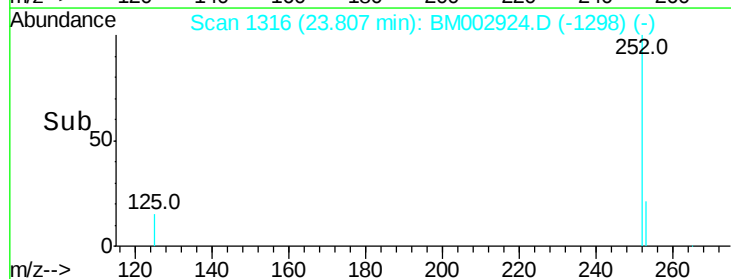
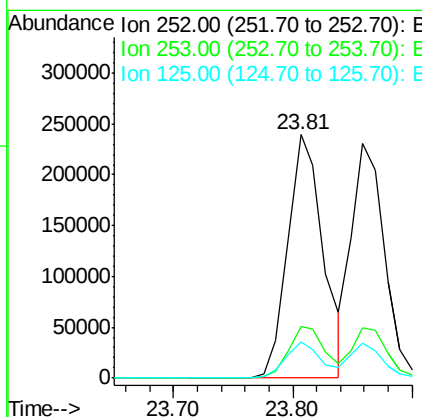
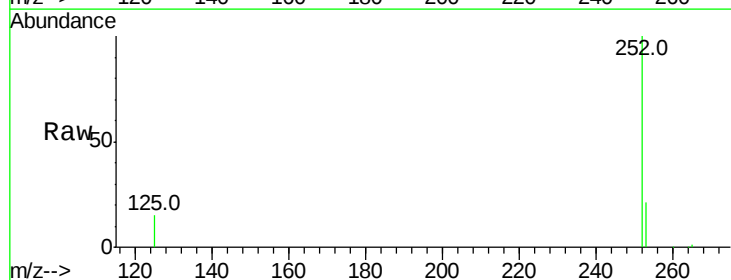
Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-104MS

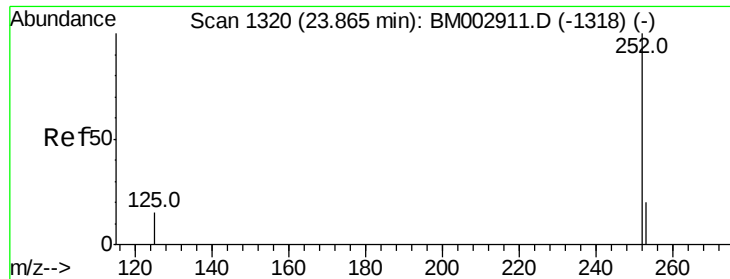
Tot Ion:264 Resp: 342693
 Ion Ratio Lower Upper
 264 100
 260 23.8 20.1 30.1
 265 22.7 17.6 26.4



#36
 Benzo(b)fluoranthene
 Concen: 5.05 ng
 RT: 23.81 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: BM002924.D
 Acq: 15 Oct 2015 21:10

Tgt Ion:252 Resp: 496259
 Ion Ratio Lower Upper
 252 100
 253 21.0 17.5 26.3
 125 14.9 12.4 18.6





#37

Benzo(k)fluoranthene

Concen: 4.60 ng

RT: 23.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

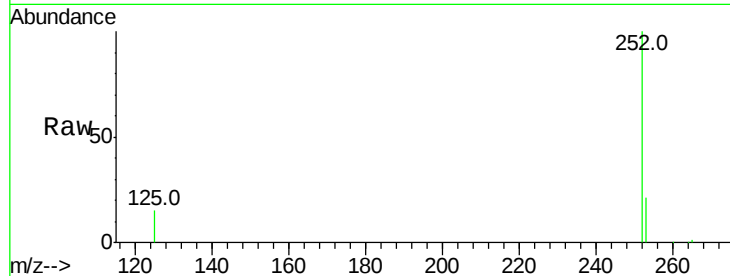
Tot Ion:252 Resp: 442859

Ion Ratio Lower Upper

252 100

253 21.1 17.9 26.9

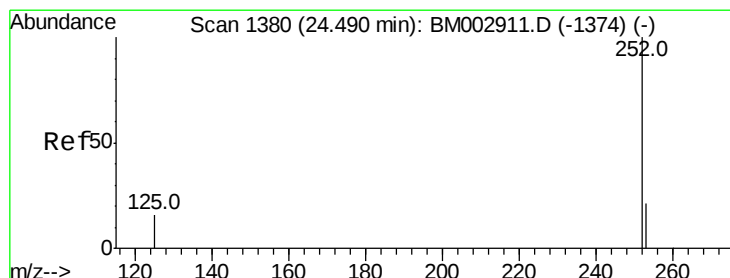
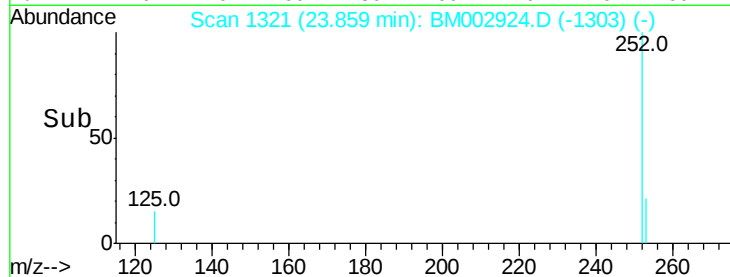
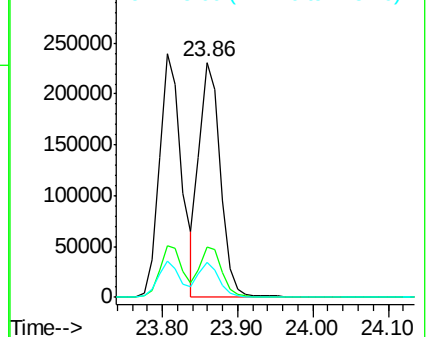
125 14.8 12.3 18.5



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



#38

Benzo(a)pyrene

Concen: 4.93 ng

RT: 24.49 min Scan# 1382

Delta R.T. -0.00 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

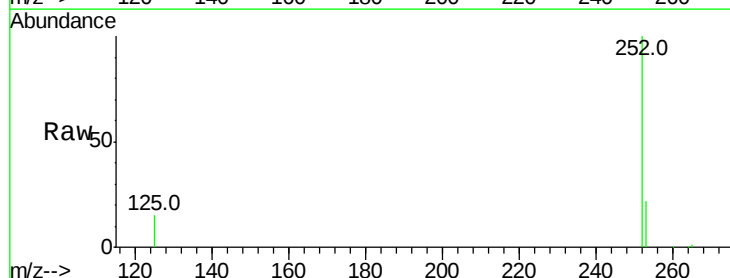
Tgt Ion:252 Resp: 428501

Ion Ratio Lower Upper

252 100

253 22.4 18.4 27.6

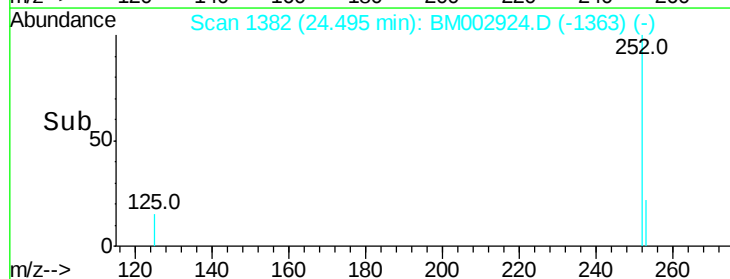
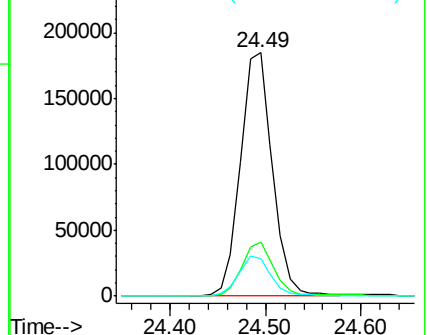
125 15.2 13.3 19.9

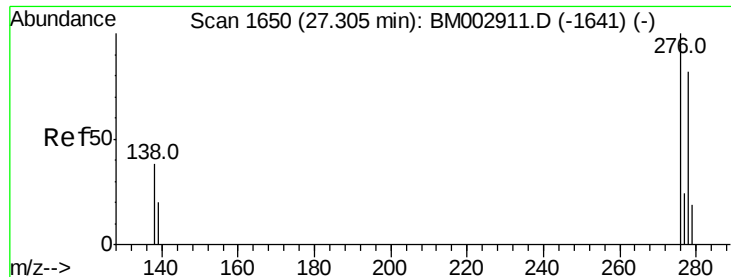


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 4.32 ng

RT: 27.29 min Scan# 1650

Delta R.T. -0.02 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104MS

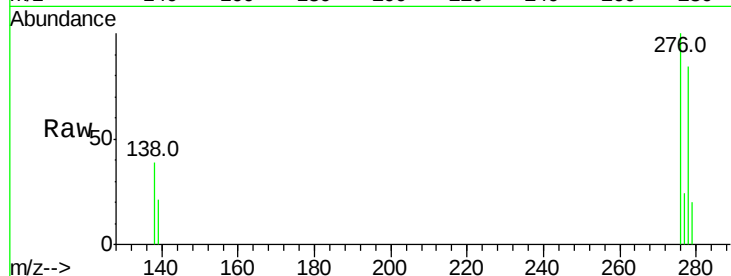
Tot Ion:278 Resp: 359322

Ion Ratio Lower Upper

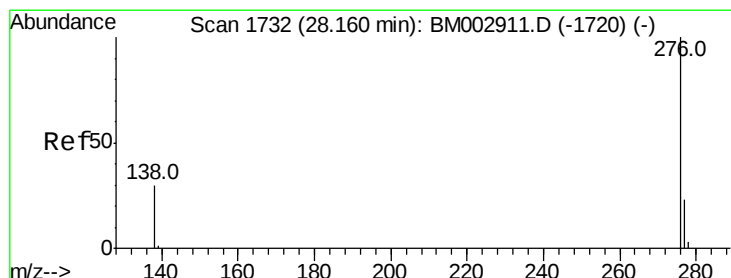
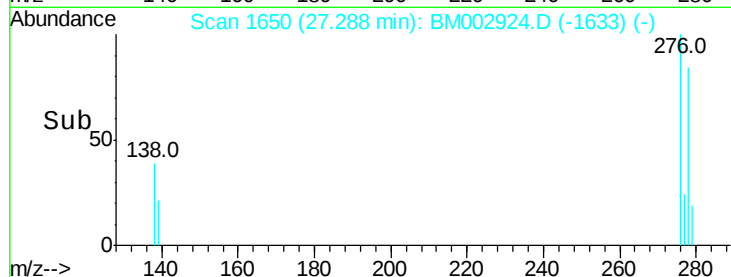
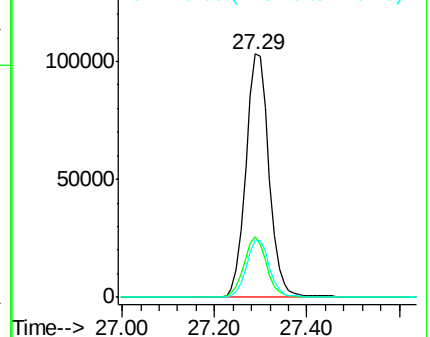
278 100

139 24.8 19.8 29.6

279 23.1 19.1 28.7



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



#40

Benzo(g,h,i)perylene

Concen: 4.12 ng

RT: 28.14 min Scan# 1732

Delta R.T. -0.01 min

Lab File: BM002924.D

Acq: 15 Oct 2015 21:10

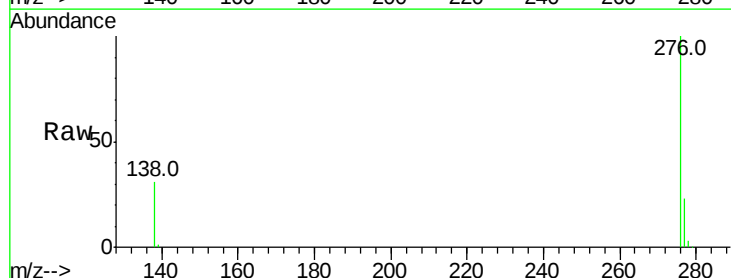
Tgt Ion:276 Resp: 358863

Ion Ratio Lower Upper

276 100

277 23.5 19.4 29.0

138 30.5 24.4 36.6



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

