

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100815\
 Data File : BM002877.D
 Acq On : 08 Oct 2015 23:23
 Operator : UM/IZ
 Sample : G3692-22
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WP

Quant Time: Oct 09 07:09:20 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM100815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 09 06:47:52 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.68	152	58435	5.00	ng	0.00
7) Naphthalene-d8	11.52	136	242607	5.00	ng	0.00
13) Acenaphthene-d10	15.26	164	127067	5.00	ng	0.00
19) Phenanthrene-d10	17.96	188	316873	5.00	ng	0.00
26) Chrysene-d12	22.04	240	310244	5.00	ng	-0.01
35) Perylene-d12	24.62	264	306634	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	6.13	112	97505	7.81	ng	-0.02
5) Phenol-d6	7.79	99	132519	8.58	ng	-0.02
8) Nitrobenzene-d5	9.87	82	51751	4.24	ng	0.00
14) 2,4,6-Tribromophenol	16.72	330	36474	8.67	ng	-0.02
15) 2-Fluorobiphenyl	13.89	172	178697	4.64	ng	0.00
29) Terphenyl-d14	20.49	244	194759	4.71	ng	-0.01

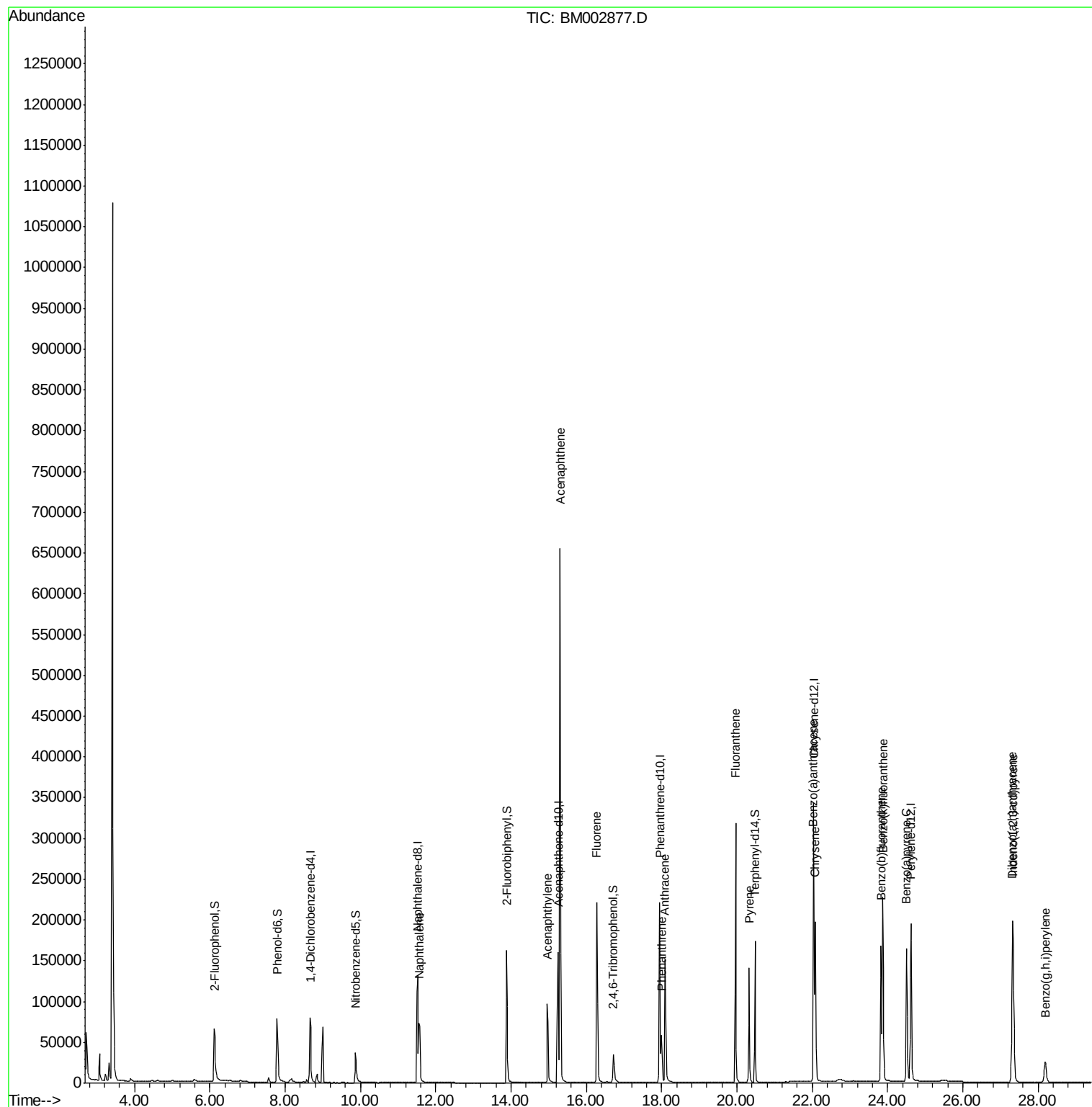
Target Compounds				Qvalue		
10) Naphthalene	11.56	128	141966	2.64	ng	96
16) Acenaphthylene	14.97	152	183365	3.40	ng	# 86
17) Acenaphthene	15.30	154	389091	11.17	ng	# 100
18) Fluorene	16.28	166	195378	4.58	ng	97
23) Phenanthrene	18.01	178	80860	0.87	ng	# 78
24) Anthracene	18.08	178	258263	3.29	ng	# 90
25) Fluoranthene	19.97	202	326602	3.18	ng	99
28) Pyrene	20.33	202	156897	1.87	ng	99
30) Benzo(a)anthracene	22.02	228	290624	3.26	ng	# 90
32) Chrysene	22.08	228	194217	2.33	ng	93
34) Indeno(1,2,3-cd)pyrene	27.33	276	154748	1.55	ng	# 86
36) Benzo(b)fluoranthene	23.83	252	239903	2.73	ng	99
37) Benzo(k)fluoranthene	23.88	252	339249	4.00	ng	98
38) Benzo(a)pyrene	24.51	252	268514	3.33	ng	98
39) Dibenzo(a,h)anthracene	27.32	278	302882	3.85	ng	99
40) Benzo(g,h,i)perylene	28.19	276	64290	0.79	ng	98

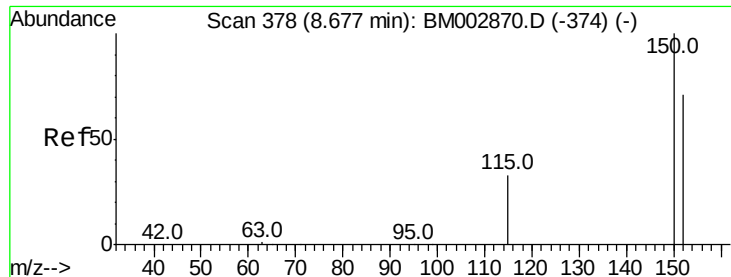
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.68 min Scan# 378

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

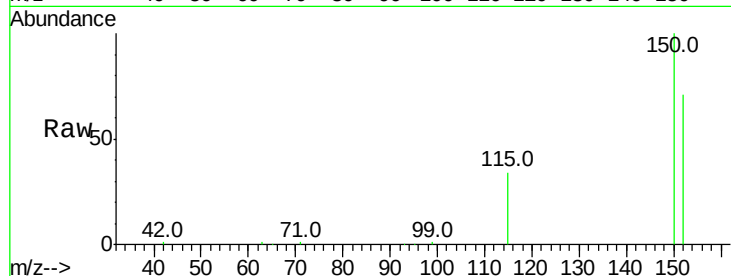
Tot Ion:152 Resp: 58435

Ion Ratio Lower Upper

152 100

150 140.7 113.0 169.6

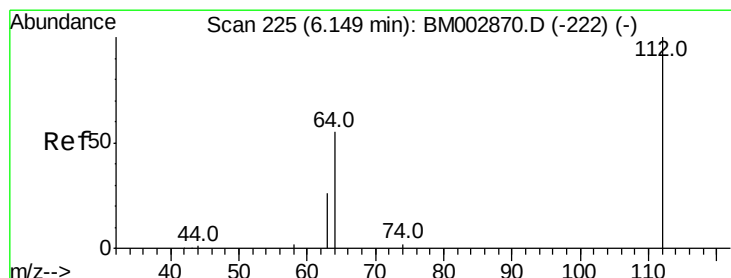
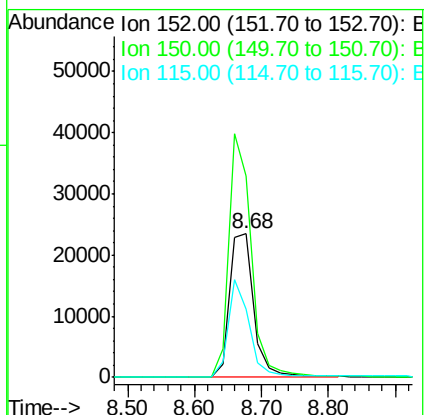
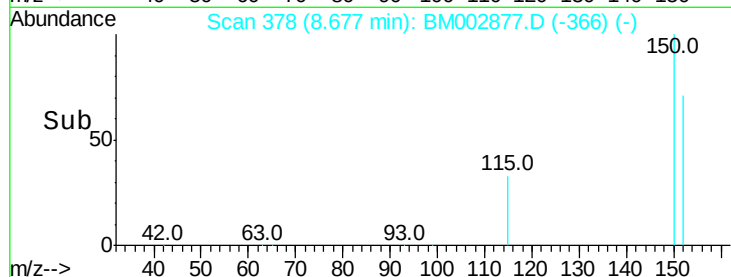
115 47.2 37.9 56.9



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



#4

2-Fluorophenol

Concen: 7.81 ng

RT: 6.13 min Scan# 224

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

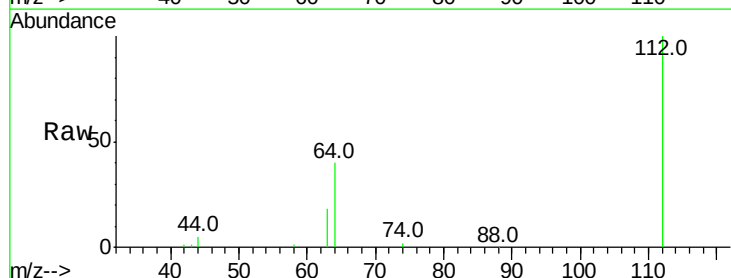
Tgt Ion:112 Resp: 97505

Ion Ratio Lower Upper

112 100

64 51.8 42.0 63.0

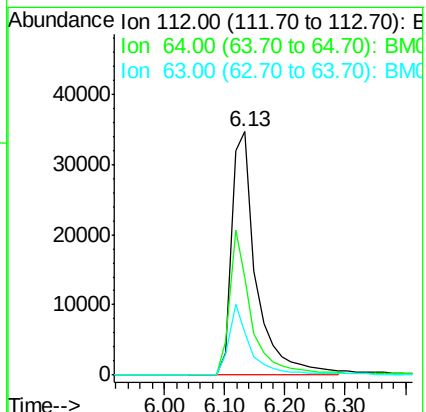
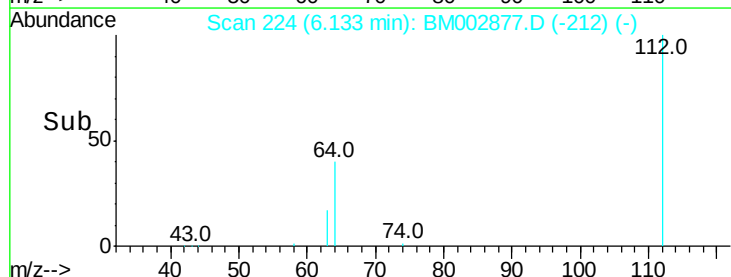
63 24.6 20.0 30.0

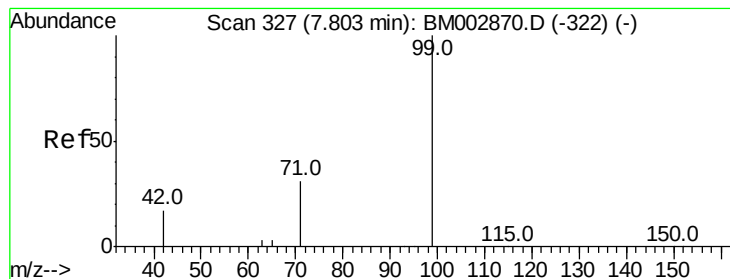


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 8.58 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

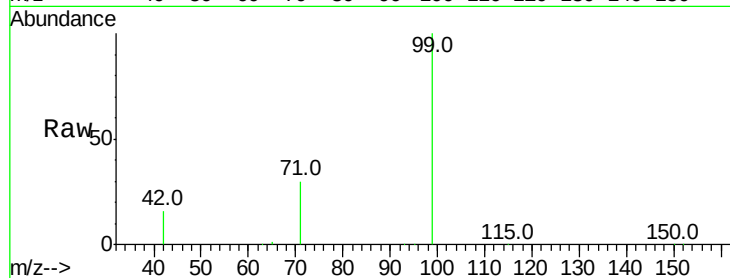
Tot Ion: 99 Resp: 132519

Ion Ratio Lower Upper

99 100

42 15.4 12.4 18.6

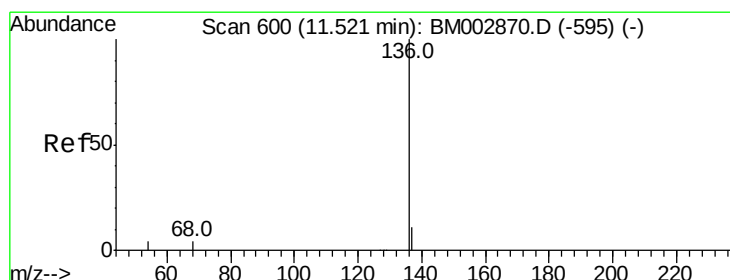
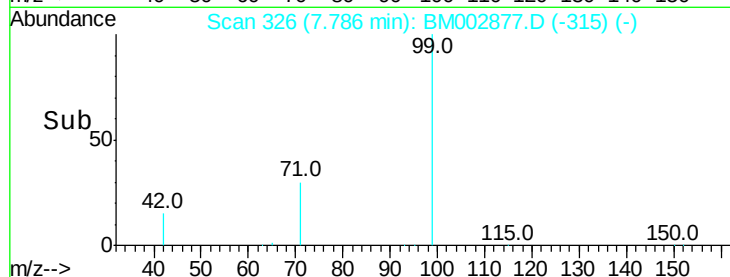
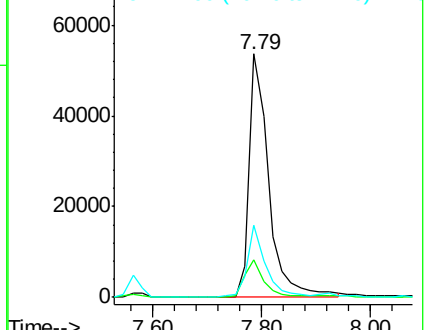
71 27.7 21.4 32.0



Abundance Ion 99.00 (98.70 to 99.70): BM002877.D (-315) (-)

Ion 42.00 (41.70 to 42.70): BM002877.D (-315) (-)

Ion 71.00 (70.70 to 71.70): BM002877.D (-315) (-)



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.52 min Scan# 600

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Tgt Ion: 136 Resp: 242607

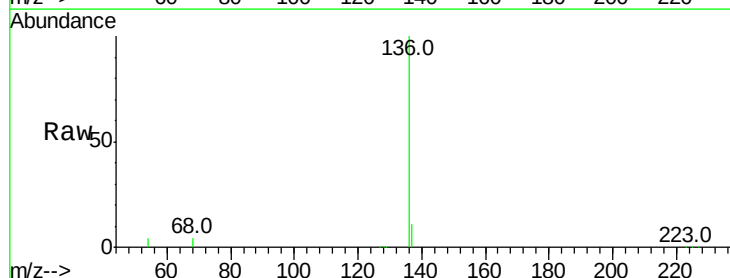
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 4.1 3.5 5.3

68 3.9 3.3 4.9

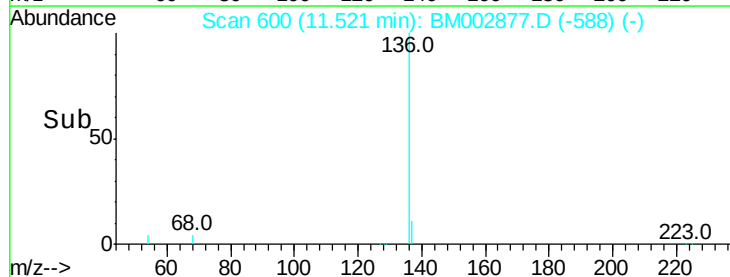
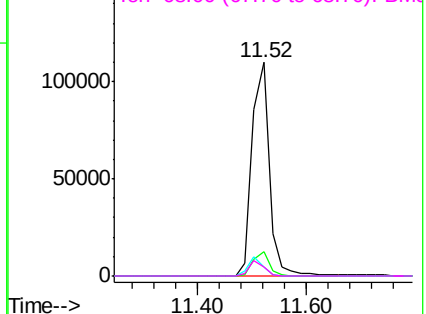


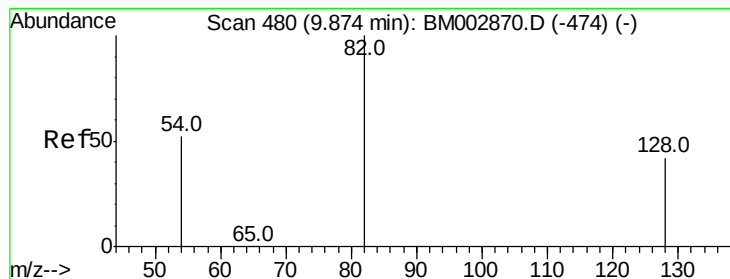
Abundance Ion 136.00 (135.70 to 136.70): BM002877.D (-588) (-)

Ion 137.00 (136.70 to 137.70): BM002877.D (-588) (-)

Ion 54.00 (53.70 to 54.70): BM002877.D (-588) (-)

Ion 68.00 (67.70 to 68.70): BM002877.D (-588) (-)





#8

Nitrobenzene-d5

Concen: 4.24 ng

RT: 9.87 min Scan# 480

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

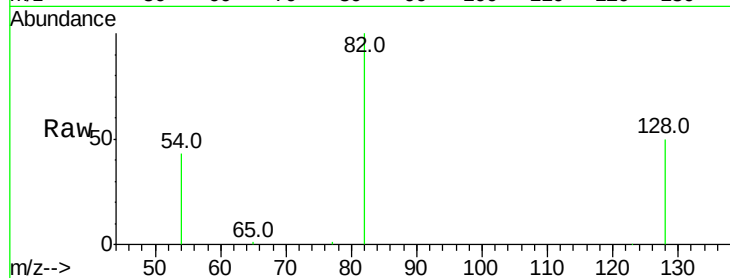
Tot Ion: 82 Resp: 51751

Ion Ratio Lower Upper

82 100

128 50.3 34.1 51.1

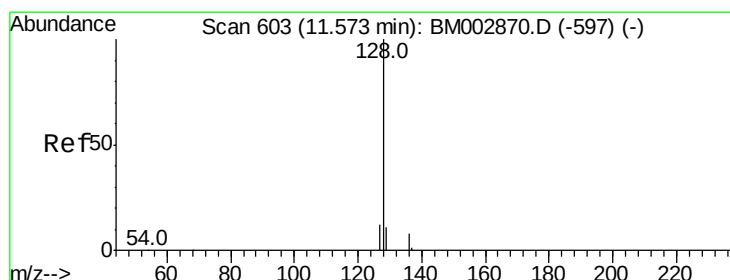
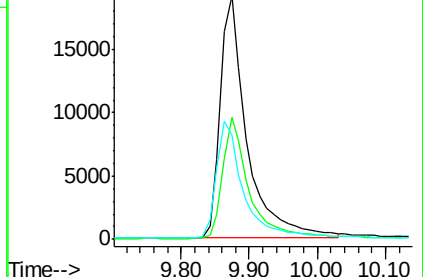
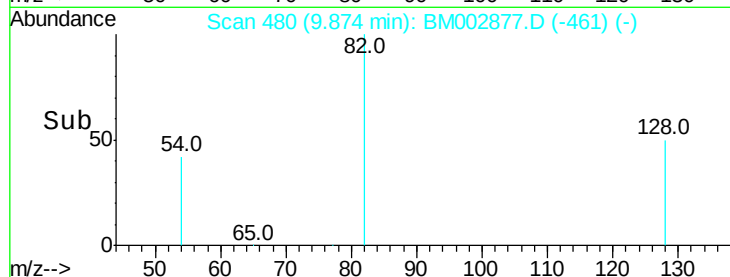
54 42.7 42.6 63.8



Abundance Ion 82.00 (81.70 to 82.70): BM002877.D (-461) (-)

Ion 128.00 (127.70 to 128.70): BM002877.D (-461) (-)

Ion 54.00 (53.70 to 54.70): BM002877.D (-461) (-)



#10

Naphthalene

Concen: 2.64 ng

RT: 11.56 min Scan# 602

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

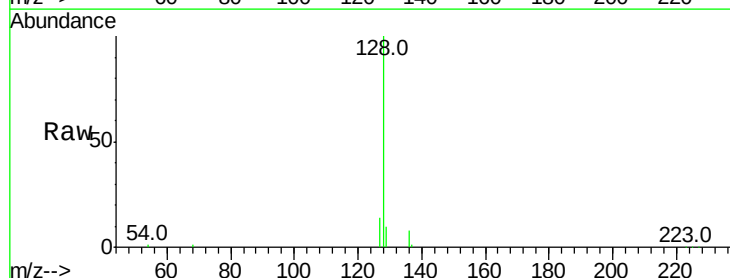
Tgt Ion: 128 Resp: 141966

Ion Ratio Lower Upper

128 100

129 10.3 9.4 14.2

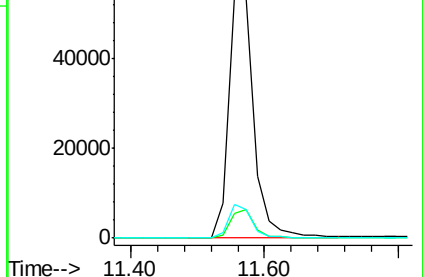
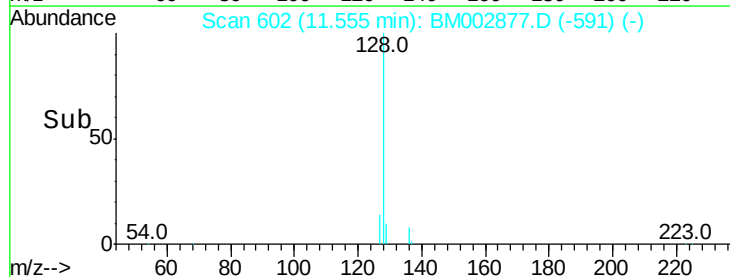
127 13.8 9.6 14.4

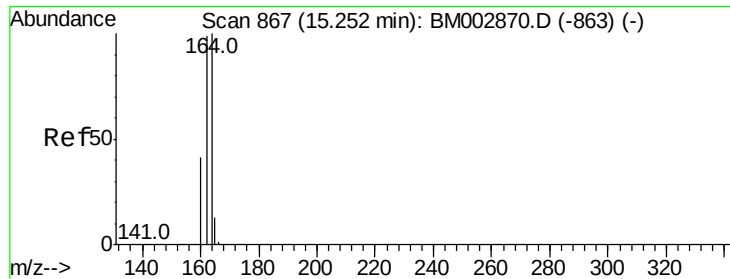


Abundance Ion 128.00 (127.70 to 128.70): BM002877.D (-591) (-)

Ion 129.00 (128.70 to 129.70): BM002877.D (-591) (-)

Ion 127.00 (126.70 to 127.70): BM002877.D (-591) (-)





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.26 min Scan# 868

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

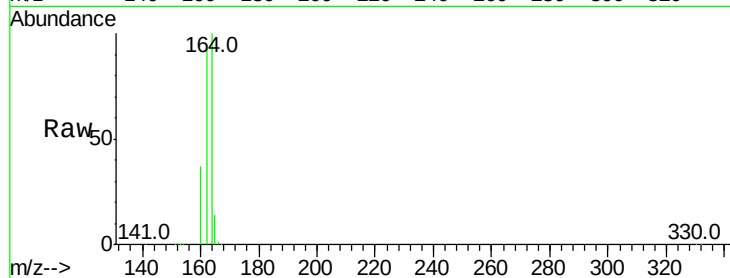
Tot Ion:164 Resp: 127067

Ion Ratio Lower Upper

164 100

162 93.4 79.6 119.4

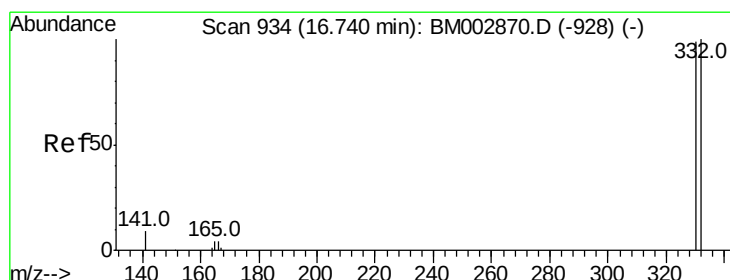
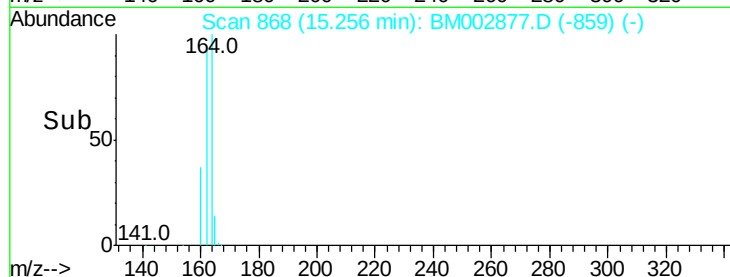
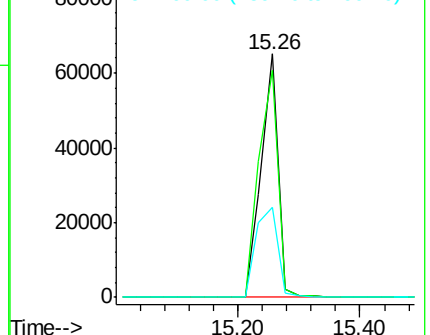
160 37.1 33.1 49.7



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: 8.67 ng

RT: 16.72 min Scan# 934

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

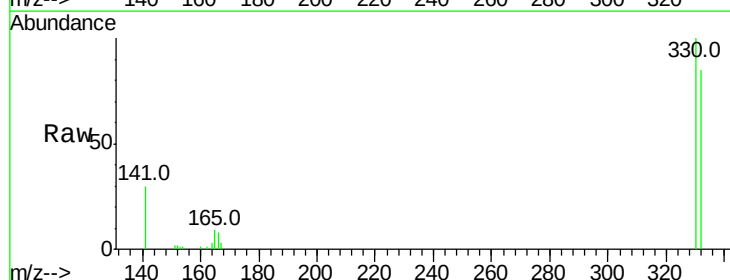
Tgt Ion:330 Resp: 36474

Ion Ratio Lower Upper

330 100

332 95.3 76.6 115.0

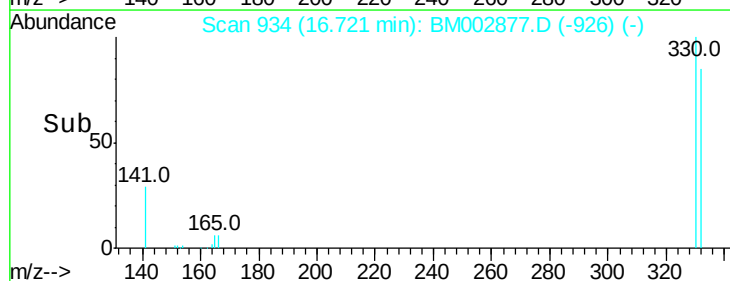
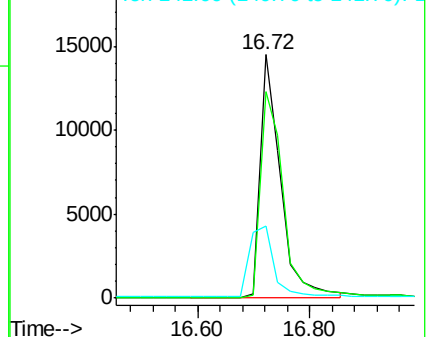
141 35.9 0.0 0.0#

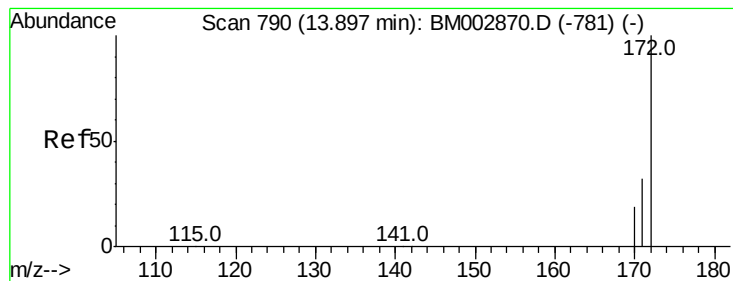


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 4.64 ng

RT: 13.89 min Scan# 790

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

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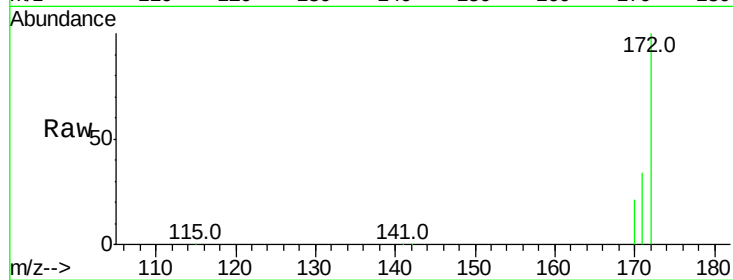
Tot Ion:172 Resp: 178697

Ion Ratio Lower Upper

172 100

171 33.9 26.1 39.1

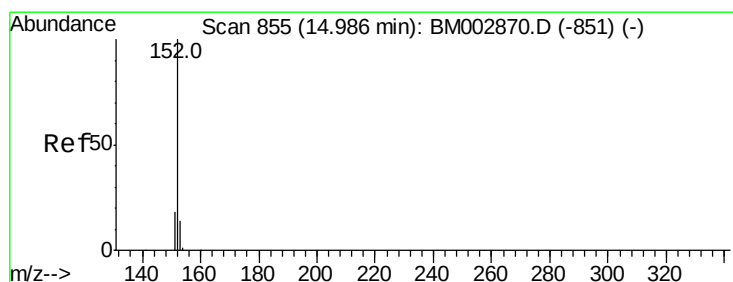
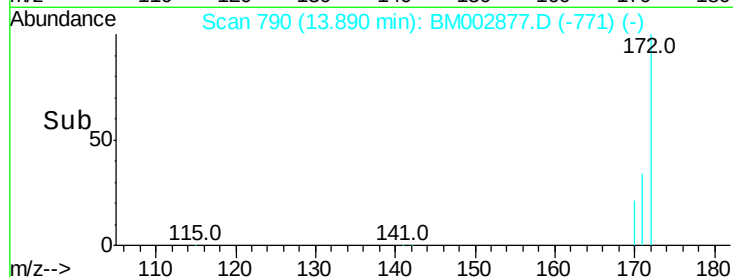
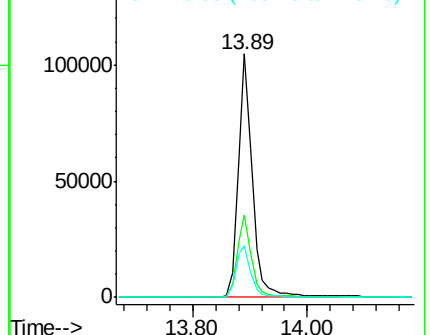
170 21.4 15.7 23.5



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 3.40 ng

RT: 14.97 min Scan# 855

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

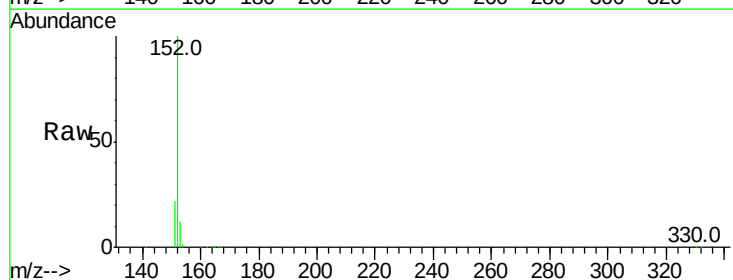
Tgt Ion:152 Resp: 183365

Ion Ratio Lower Upper

152 100

151 19.4 15.3 22.9

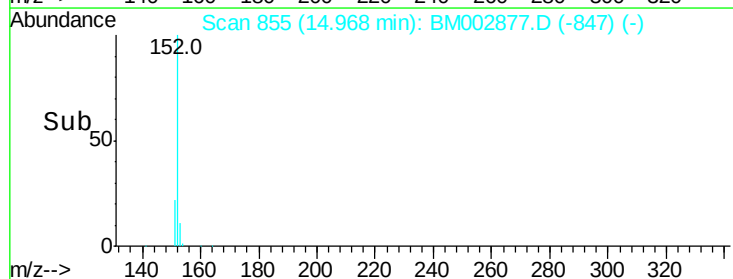
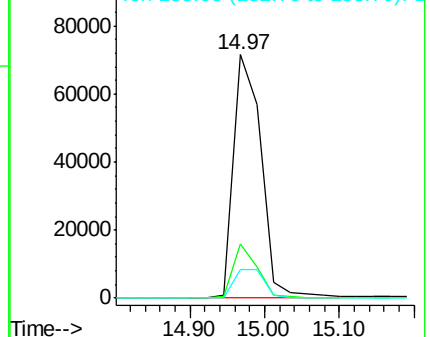
153 0.0 10.5 15.7#

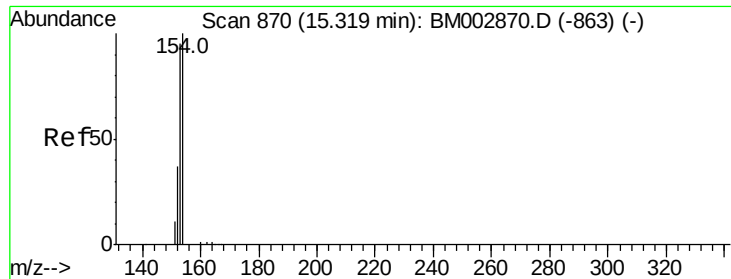


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

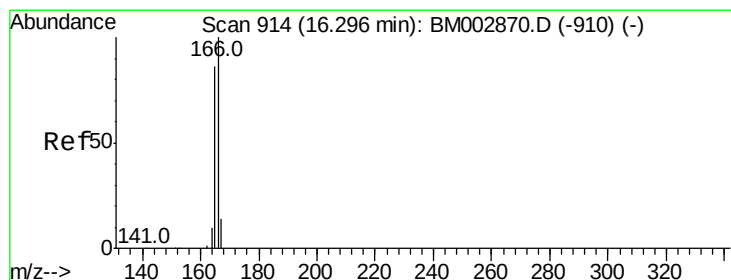
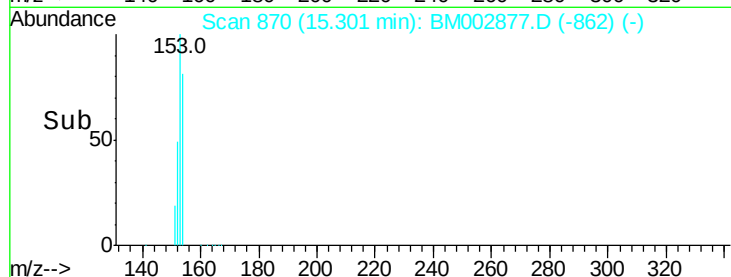
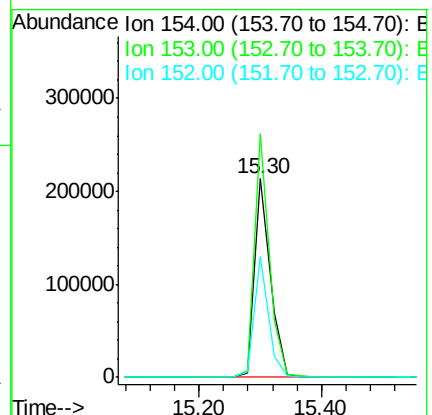
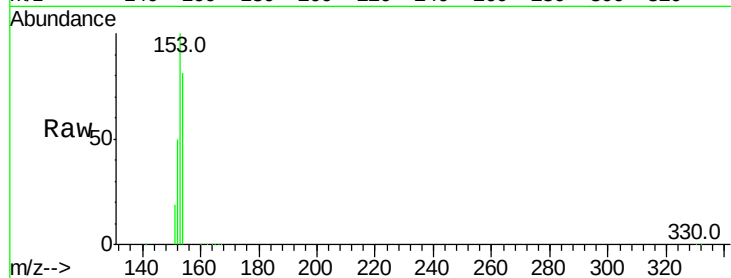




#17
Acenaphthene
Concen: 11.17 ng
RT: 15.30 min Scan# 870
Delta R.T. -0.02 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

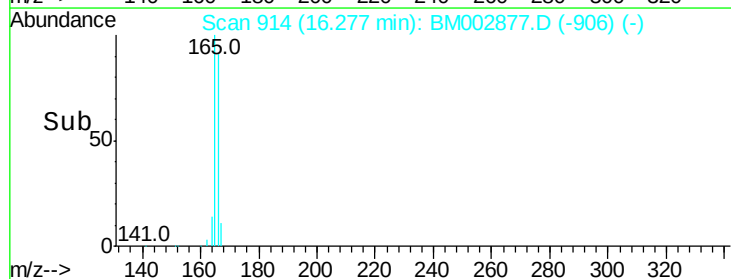
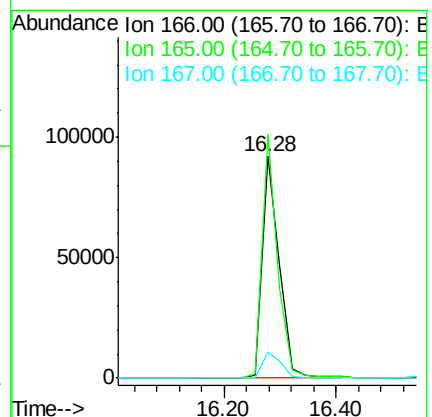
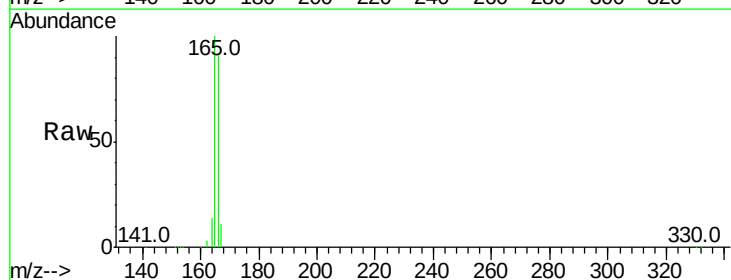
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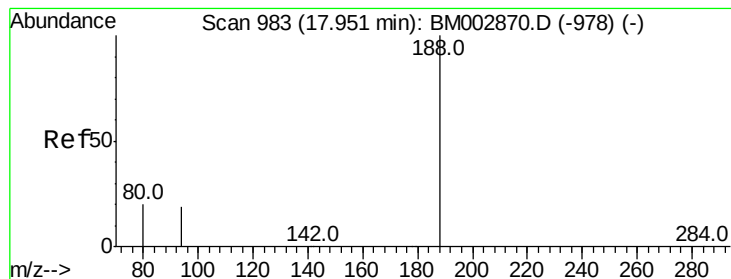
Tot Ion:154 Resp: 389091
Ion Ratio Lower Upper
154 100
153 114.8 0.0 0.0#
152 54.5 0.0 0.0#



#18
Fluorene
Concen: 4.58 ng
RT: 16.28 min Scan# 914
Delta R.T. -0.02 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

Tgt Ion:166 Resp: 195378
Ion Ratio Lower Upper
166 100
165 99.5 77.3 115.9
167 13.0 10.9 16.3





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.96 min Scan# 984

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

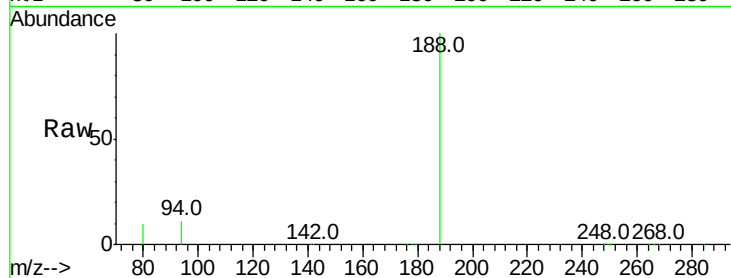
Tot Ion:188 Resp: 316873

Ion Ratio Lower Upper

188 100

94 10.8 15.2 22.8#

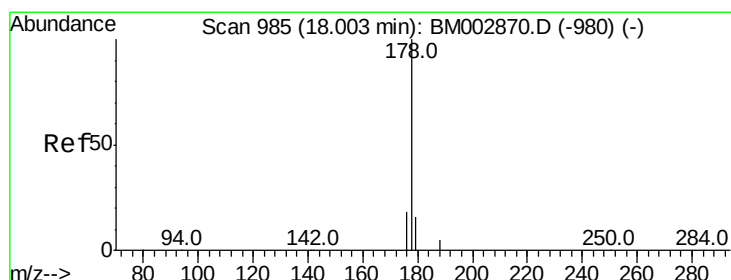
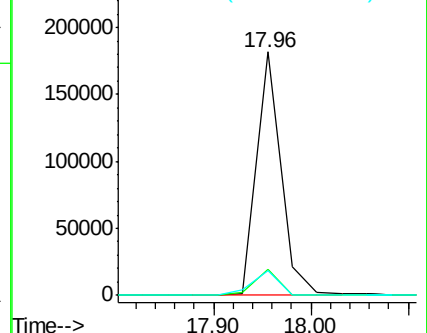
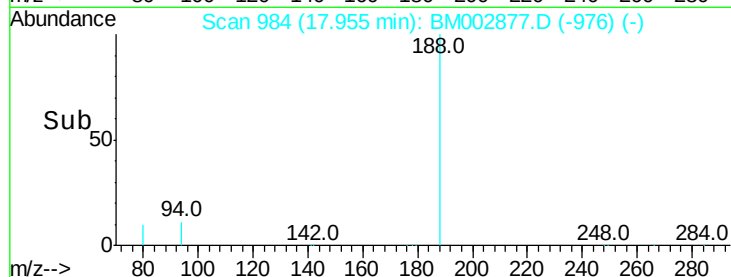
80 10.3 15.9 23.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#23

Phenanthrene

Concen: 0.87 ng

RT: 18.01 min Scan# 986

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

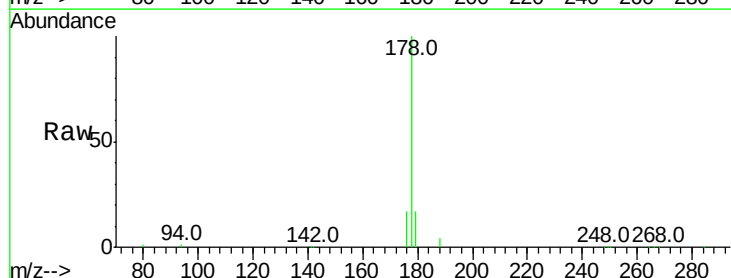
Tgt Ion:178 Resp: 80860

Ion Ratio Lower Upper

178 100

176 0.0 14.6 21.8#

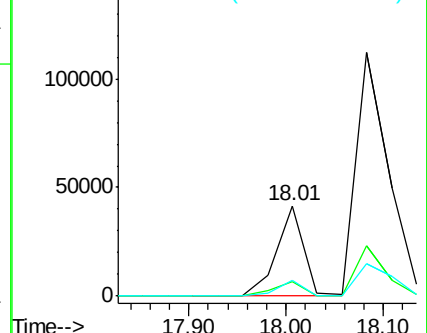
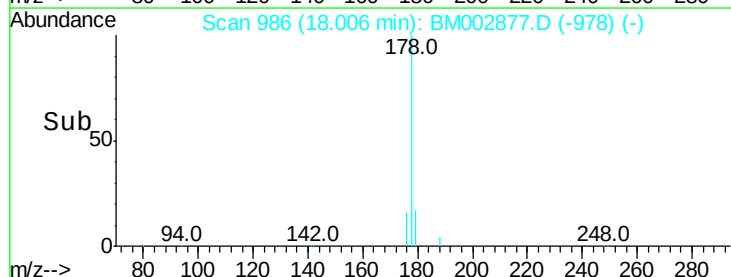
179 15.9 12.5 18.7

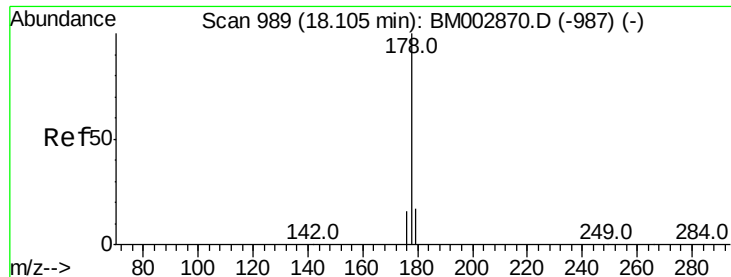


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 3.29 ng

RT: 18.08 min Scan# 989

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

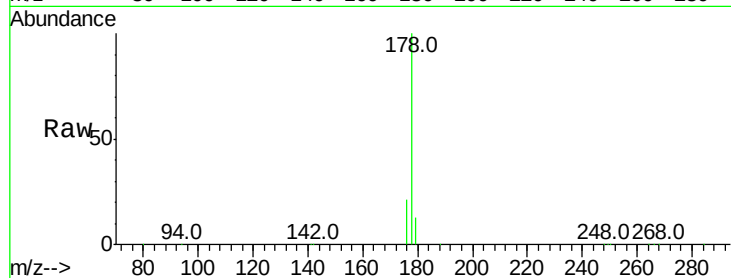
Tot Ion:178 Resp: 258263

Ion Ratio Lower Upper

178 100

176 24.9 13.9 20.9#

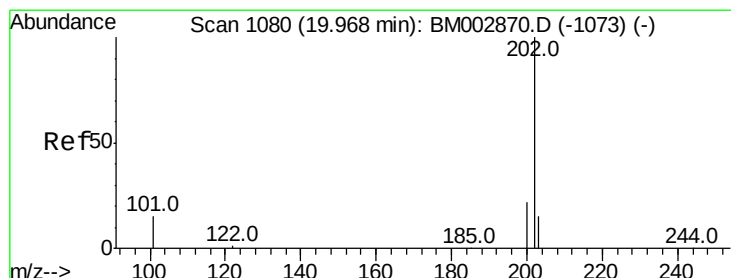
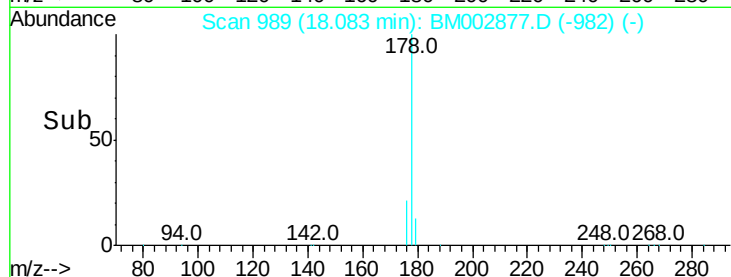
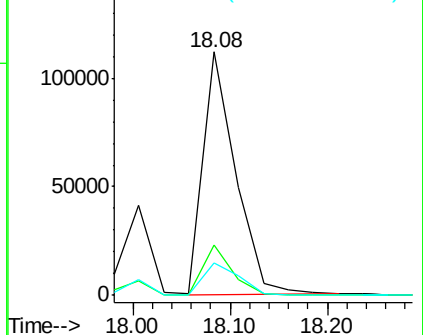
179 14.6 12.6 18.8



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: 3.18 ng

RT: 19.97 min Scan# 1081

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

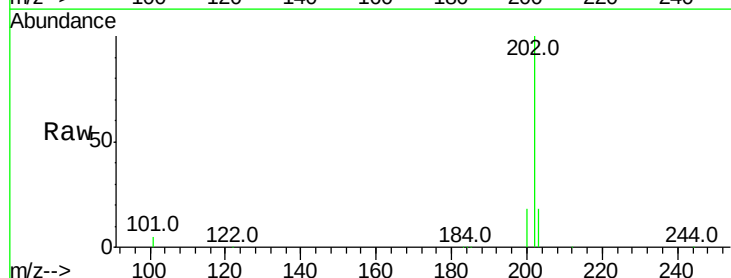
Tgt Ion:202 Resp: 326602

Ion Ratio Lower Upper

202 100

101 13.3 11.0 16.6

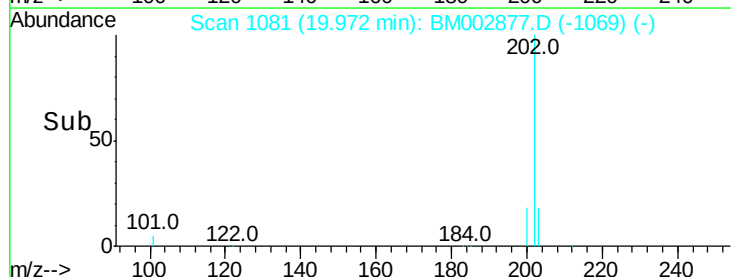
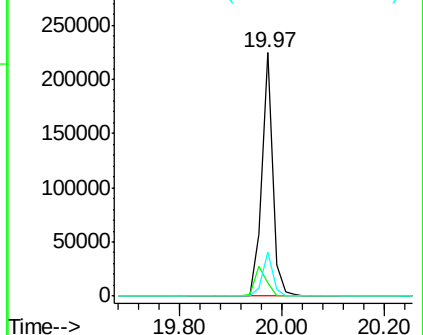
203 17.4 13.8 20.6

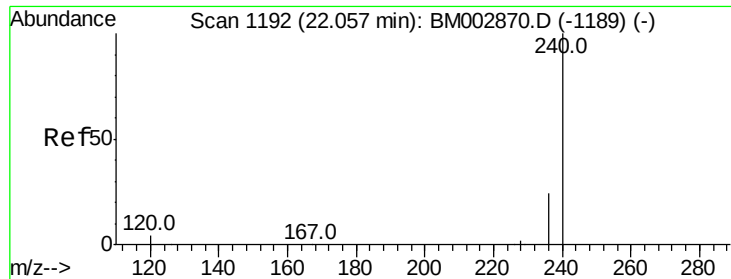


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

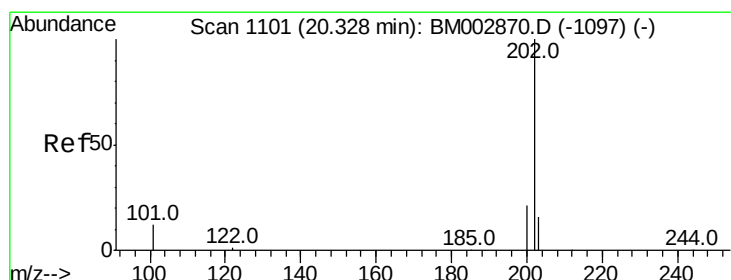
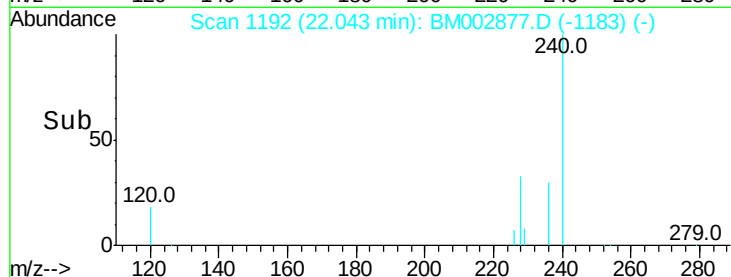
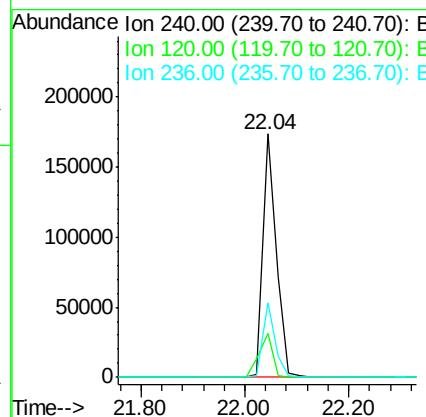
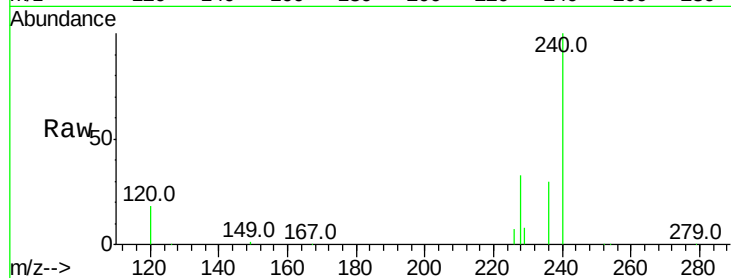




#26
Chrysene-d12
Concen: 5.00 ng
RT: 22.04 min Scan# 1192
Delta R.T. -0.01 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

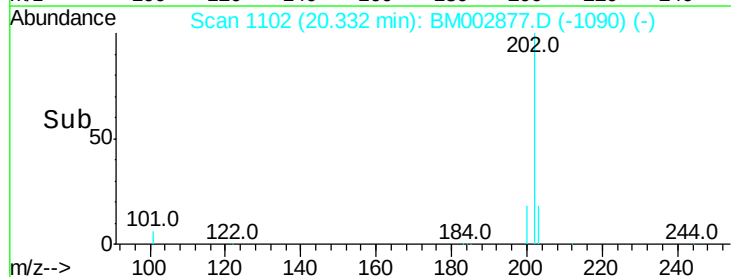
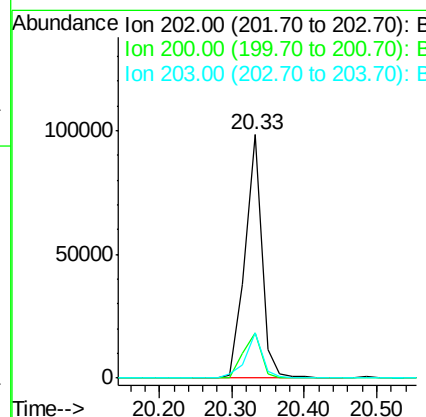
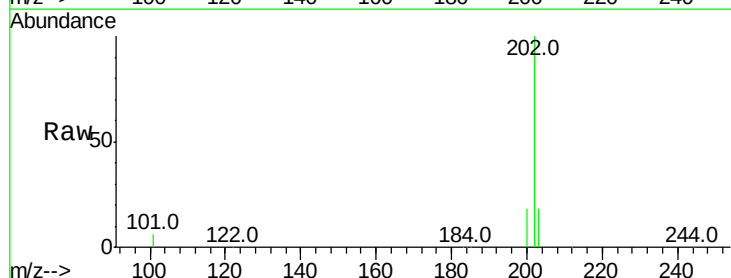
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

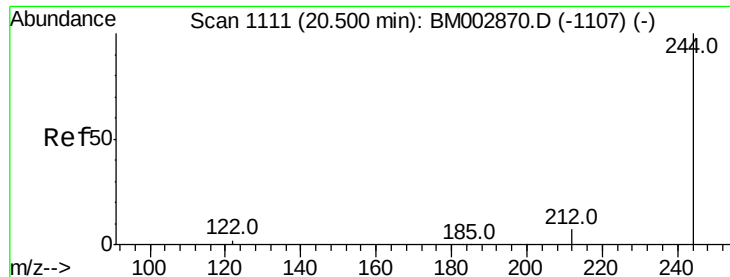
Tot Ion:240 Resp: 310244
Ion Ratio Lower Upper
240 100
120 18.0 3.3 4.9#
236 30.5 19.5 29.3#



#28
Pyrene
Concen: 1.87 ng
RT: 20.33 min Scan# 1102
Delta R.T. 0.00 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

Tgt Ion:202 Resp: 156897
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.4
203 18.6 13.8 20.8





#29

Terphenyl-d14

Concen: 4.71 ng

RT: 20.49 min Scan# 1111

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

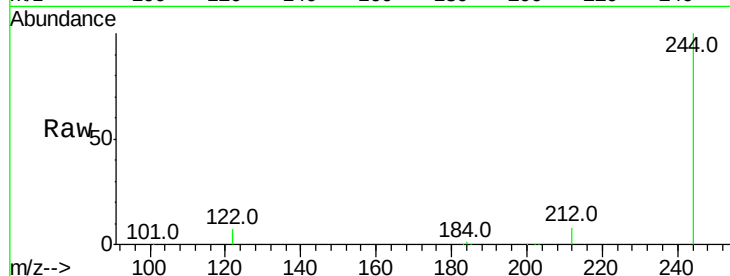
Tot Ion:244 Resp: 194759

Ion Ratio Lower Upper

244 100

212 8.4 5.6 8.4

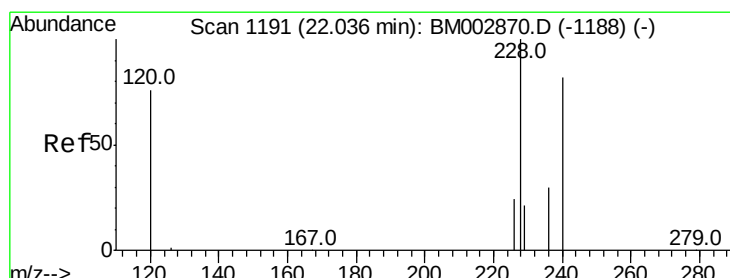
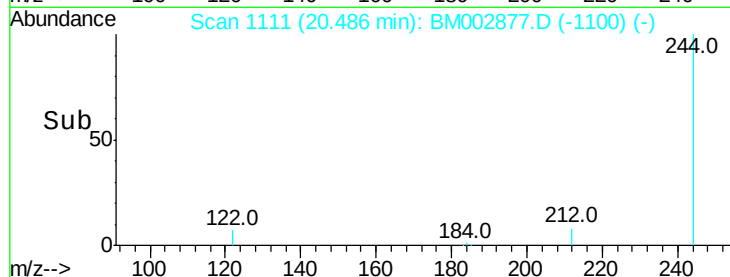
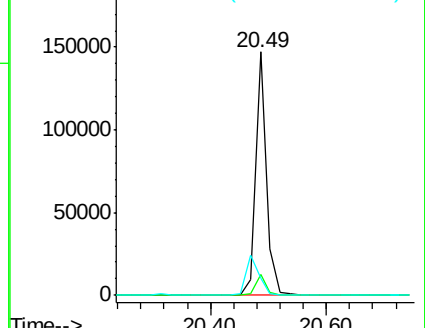
122 7.1 2.2 3.2#



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: 3.26 ng

RT: 22.02 min Scan# 1191

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

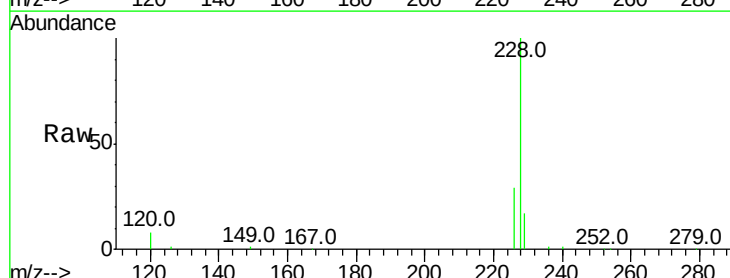
Tgt Ion:228 Resp: 290624

Ion Ratio Lower Upper

228 100

226 29.4 19.0 28.6#

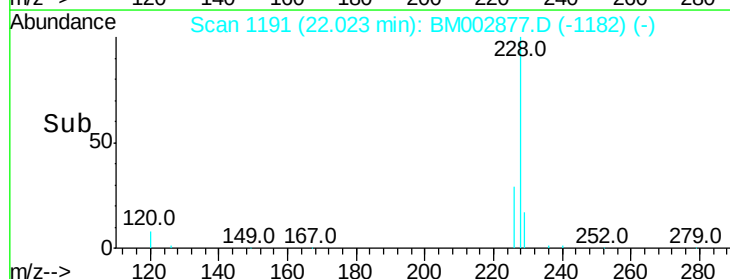
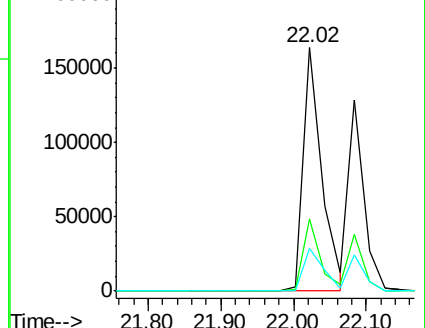
229 17.3 16.8 25.2

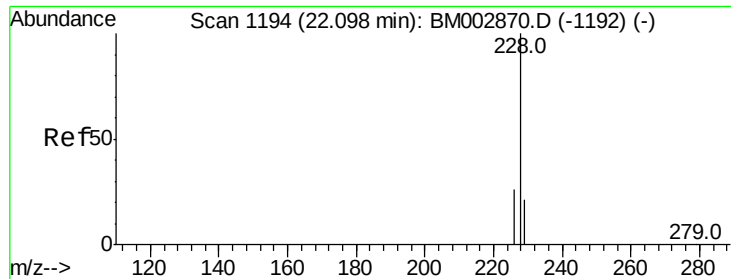


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Chrysene

Concen: 2.33 ng

RT: 22.08 min Scan# 1194

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

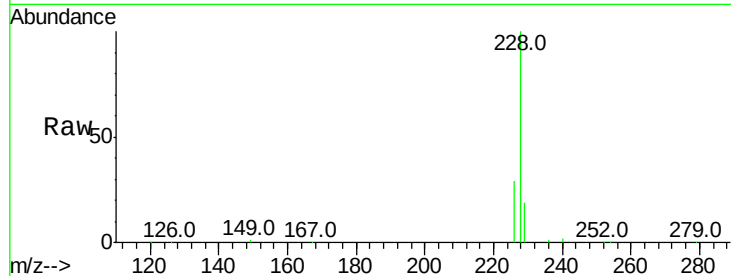
Tot Ion:228 Resp: 194217

Ion Ratio Lower Upper

228 100

226 29.4 20.6 30.8

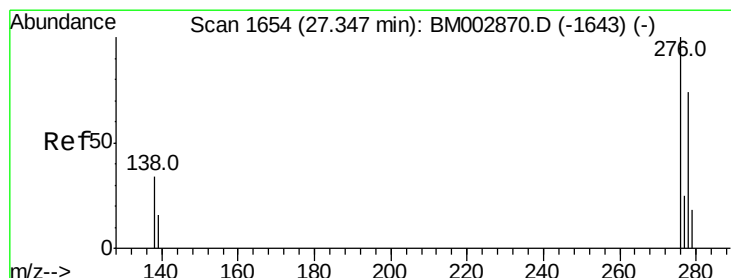
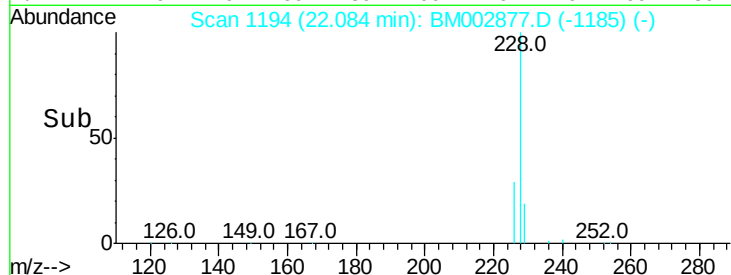
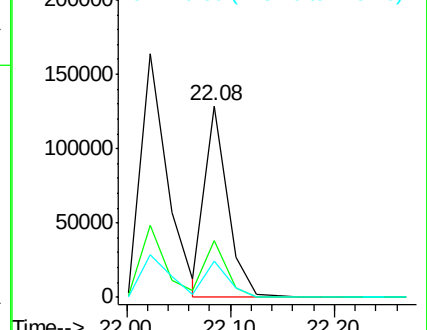
229 18.8 17.4 26.2



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



#34

Indeno(1,2,3-cd)pyrene

Concen: 1.55 ng

RT: 27.33 min Scan# 1654

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

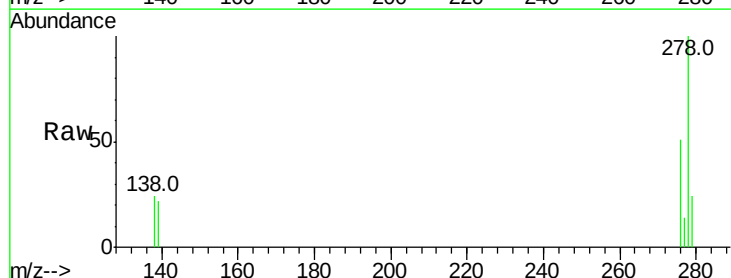
Tgt Ion:276 Resp: 154748

Ion Ratio Lower Upper

276 100

138 48.3 29.0 43.6#

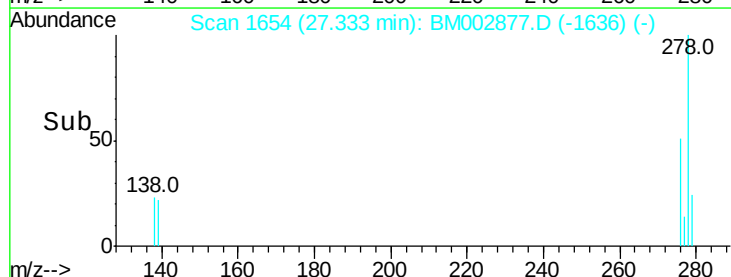
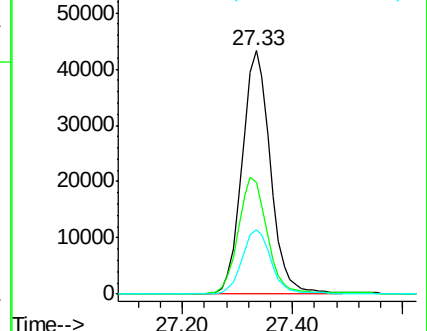
277 26.7 19.8 29.8

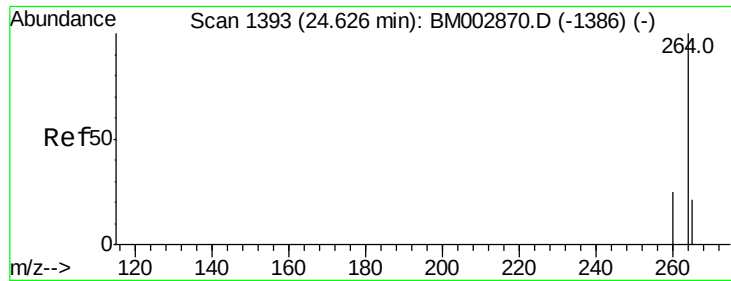


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

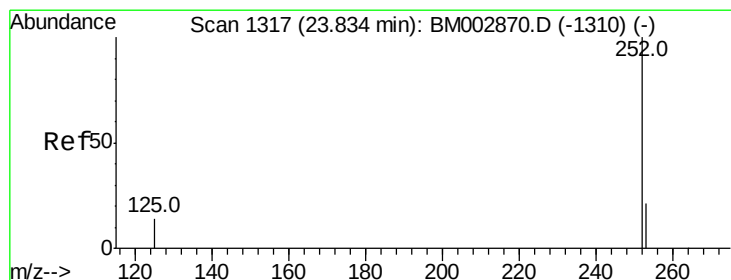
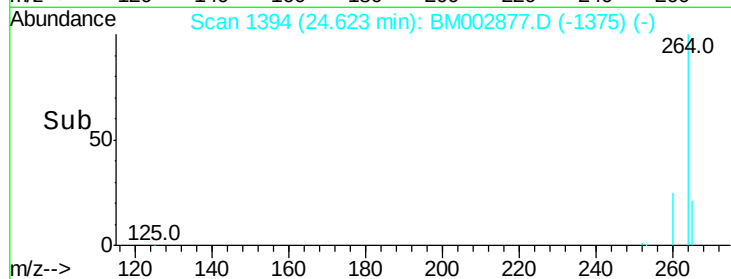
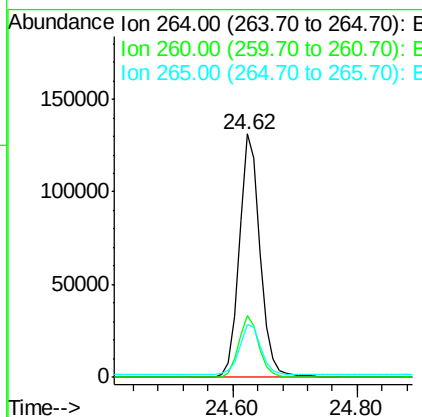
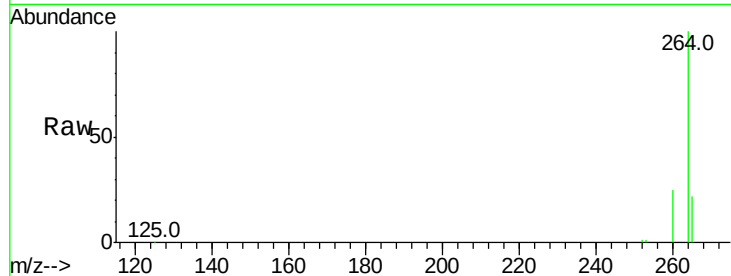




#35
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.62 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: BM002877.D
 Acq: 08 Oct 2015 23:23

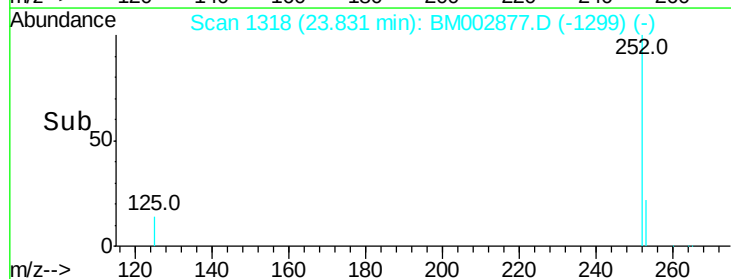
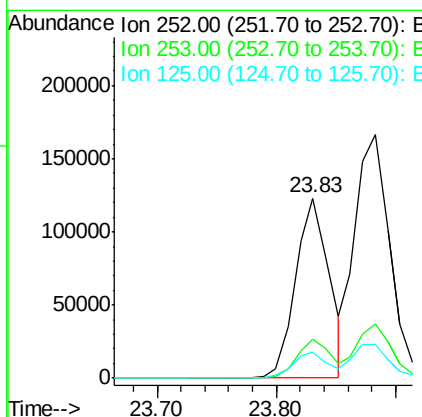
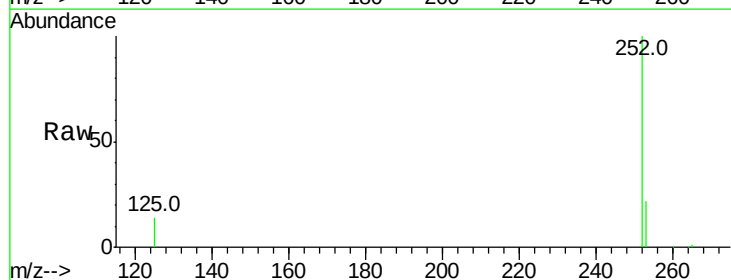
Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WP

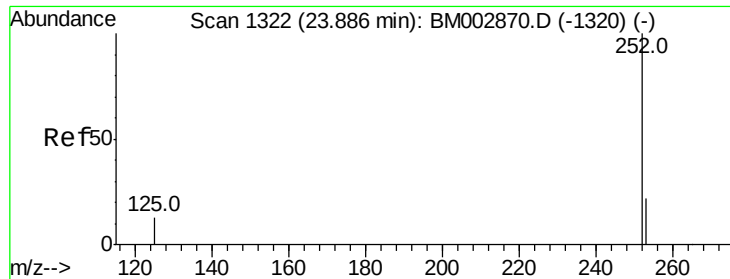
Tot Ion:264 Resp: 306634
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.1 30.1
 265 21.6 17.6 26.4



#36
 Benzo(b)fluoranthene
 Concen: 2.73 ng
 RT: 23.83 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: BM002877.D
 Acq: 08 Oct 2015 23:23

Tgt Ion:252 Resp: 239903
 Ion Ratio Lower Upper
 252 100
 253 21.8 17.5 26.3
 125 14.3 12.4 18.6

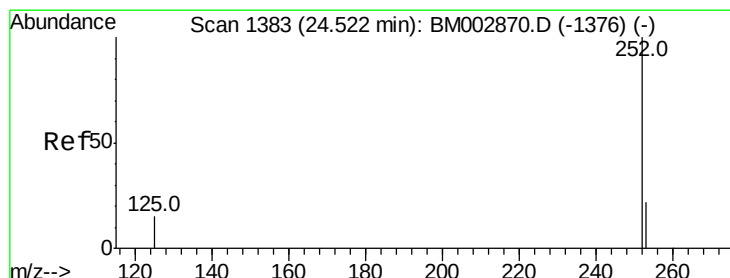
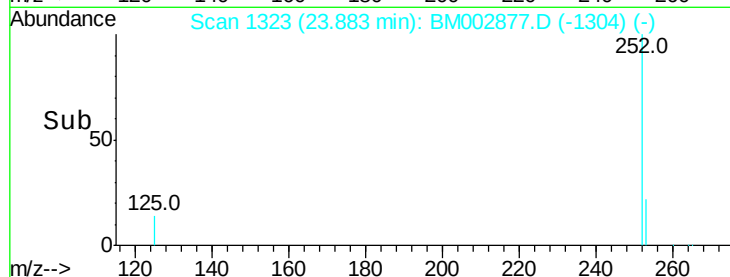
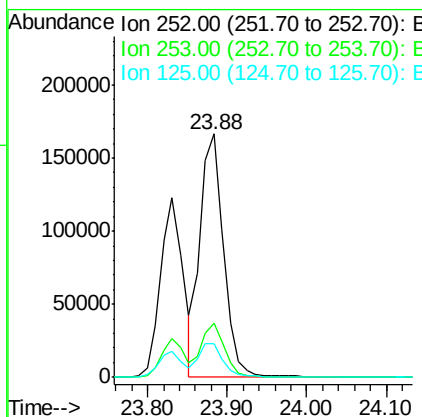
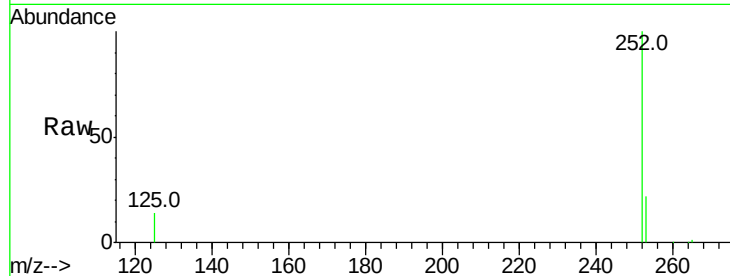




#37
Benzo(k)fluoranthene
Concen: 4.00 ng
RT: 23.88 min Scan# 1323
Delta R.T. -0.00 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

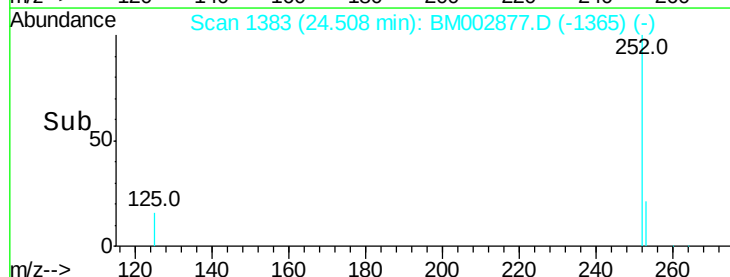
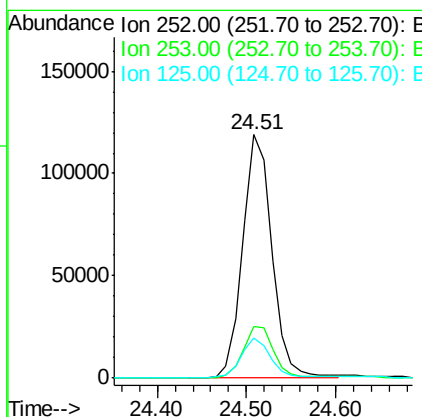
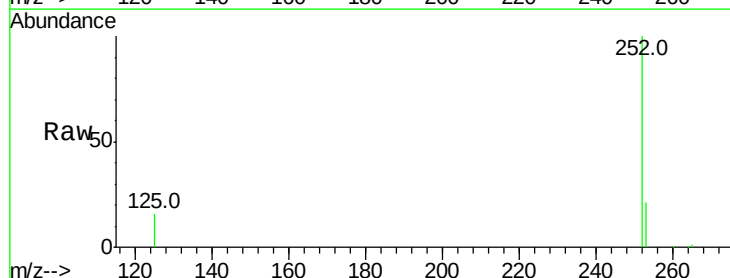
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

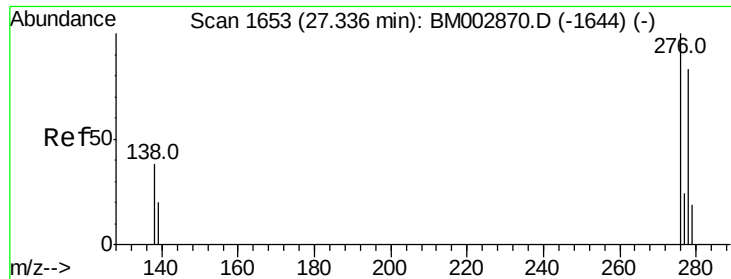
Tot Ion:252 Resp: 339249
Ion Ratio Lower Upper
252 100
253 22.3 17.9 26.9
125 13.8 12.3 18.5



#38
Benzo(a)pyrene
Concen: 3.33 ng
RT: 24.51 min Scan# 1383
Delta R.T. -0.01 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

Tgt Ion:252 Resp: 268514
Ion Ratio Lower Upper
252 100
253 21.4 18.4 27.6
125 16.2 13.3 19.9





#39

Dibenzo(a,h)anthracene

Concen: 3.85 ng

RT: 27.32 min Scan# 1653

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

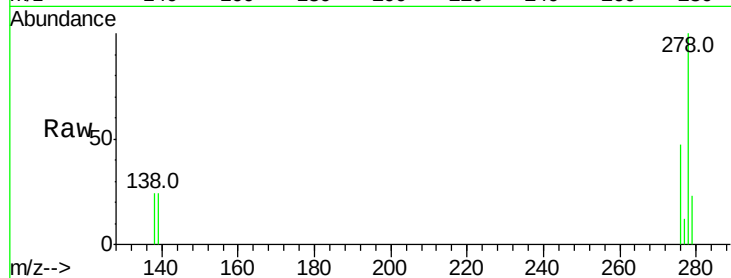
Tot Ion:278 Resp: 302882

Ion Ratio Lower Upper

278 100

139 24.4 19.8 29.6

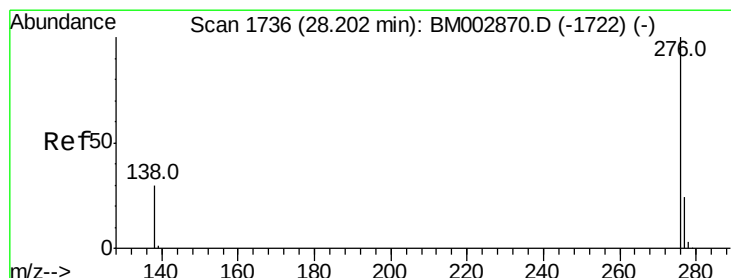
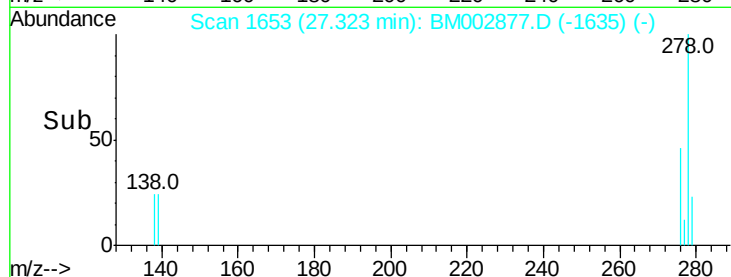
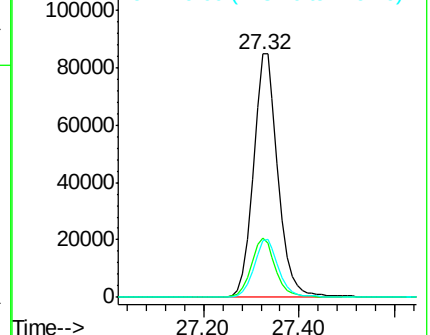
279 23.3 19.1 28.7



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: 0.79 ng

RT: 28.19 min Scan# 1736

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

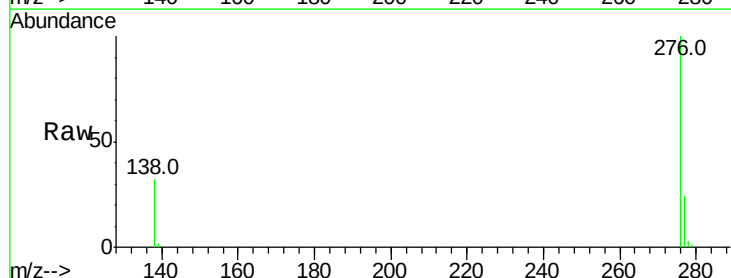
Tgt Ion:276 Resp: 64290

Ion Ratio Lower Upper

276 100

277 23.8 19.4 29.0

138 32.0 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

