

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100915\
 Data File : BM002881.D
 Acq On : 09 Oct 2015 10:49
 Operator : UM/IZ
 Sample : G3692-22DL 2X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Oct 09 19:44:42 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	8.66	152	86470	5.00	ng	-0.02
7) Naphthalene-d8	11.51	136	344641	5.00	ng	-0.01
13) Acenaphthene-d10	15.25	164	189015	5.00	ng	0.00
19) Phenanthrene-d10	17.97	188	356909	5.00	ng	0.02
26) Chrysene-d12	22.05	240	366609	5.00	ng	0.00
35) Perylene-d12	24.63	264	289435	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	6.13	112	65355	3.54	ng	-0.02
5) Phenol-d6	7.79	99	85273	3.73	ng	-0.02
8) Nitrobenzene-d5	9.88	82	33355	1.92	ng	0.00
14) 2,4,6-Tribromophenol	16.74	330	19501	3.12	ng	0.00
15) 2-Fluorobiphenyl	13.89	172	121224	2.12	ng	0.00
29) Terphenyl-d14	20.49	244	117811	2.41	ng	0.00

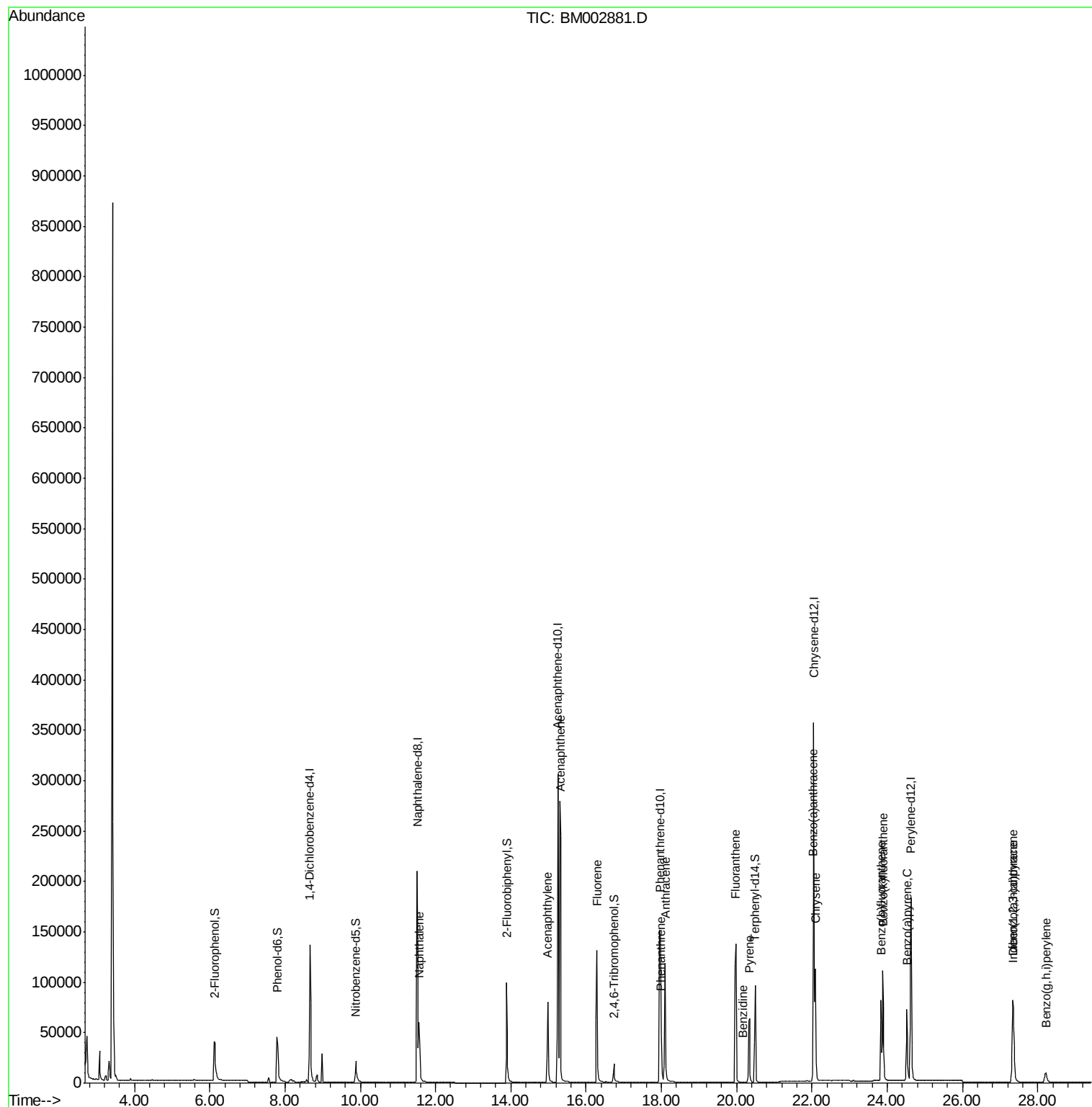
Target Compounds				Qvalue		
10) Naphthalene	11.56	128	96468	1.26	ng	97
16) Acenaphthylene	14.98	152	117756	1.47	ng	100
17) Acenaphthene	15.32	154	251272	4.85	ng	# 100
18) Fluorene	16.29	166	126709	2.00	ng	99
23) Phenanthrene	18.00	178	56292	0.54	ng	99
24) Anthracene	18.10	178	171380	1.94	ng	100
25) Fluoranthene	19.98	202	190375	1.65	ng	99
27) Benzidine	20.17	184	688	0.19	ng	# 39
28) Pyrene	20.34	202	92682	0.94	ng	99
30) Benzo(a)anthracene	22.03	228	164562	1.56	ng	93
32) Chrysene	22.09	228	104331	1.06	ng	94
34) Indeno(1,2,3-cd)pyrene	27.35	276	63851	0.54	ng	# 86
36) Benzo(b)fluoranthene	23.84	252	112802	1.36	ng	99
37) Benzo(k)fluoranthene	23.89	252	164163	2.05	ng	99
38) Benzo(a)pyrene	24.53	252	120810	1.59	ng	99
39) Dibenzo(a,h)anthracene	27.34	278	124601	1.68	ng	98
40) Benzo(g,h,i)perylene	28.22	276	26513	0.35	ng	98

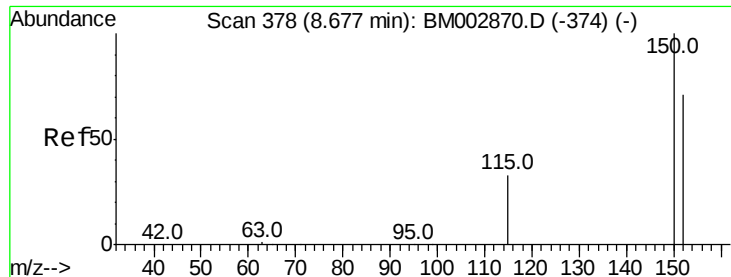
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.66 min Scan# 377

Delta R.T. -0.02 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

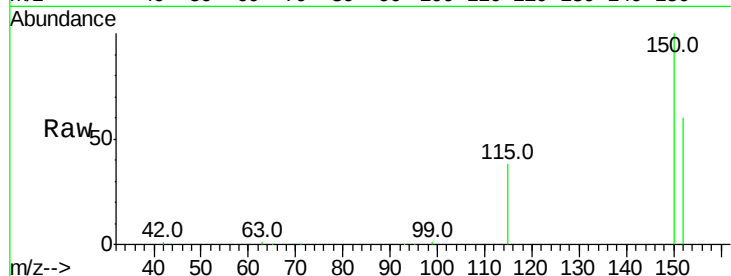
Tot Ion:152 Resp: 86470

Ion Ratio Lower Upper

152 100

150 166.0 113.0 169.6

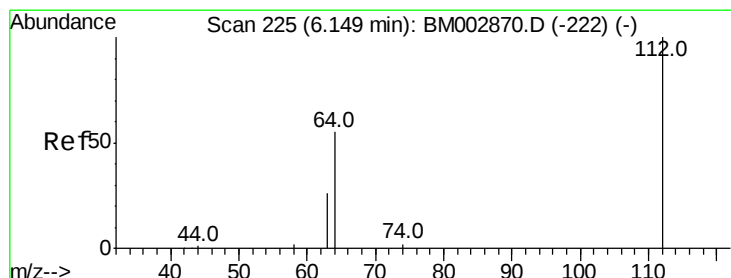
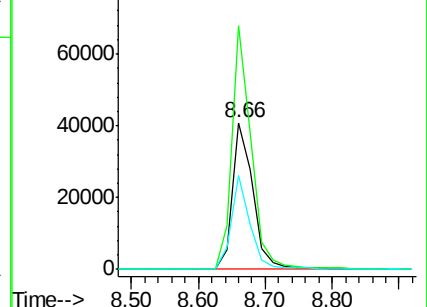
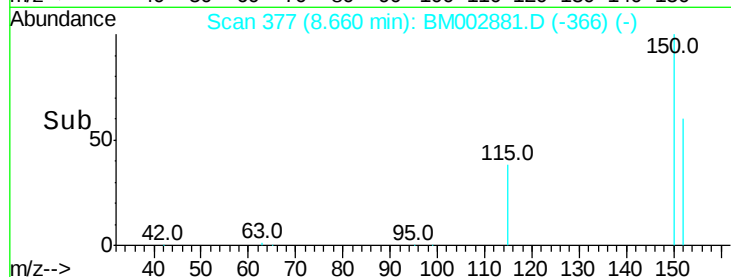
115 63.7 37.9 56.9#



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: 3.54 ng

RT: 6.13 min Scan# 224

Delta R.T. -0.02 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

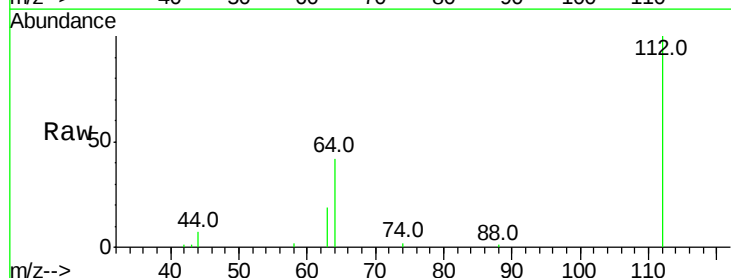
Tgt Ion:112 Resp: 65355

Ion Ratio Lower Upper

112 100

64 51.9 42.0 63.0

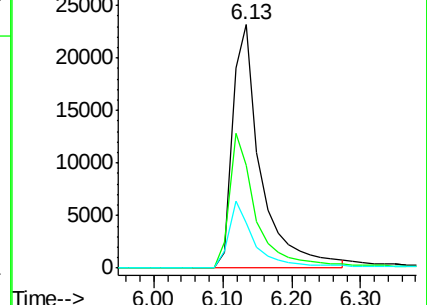
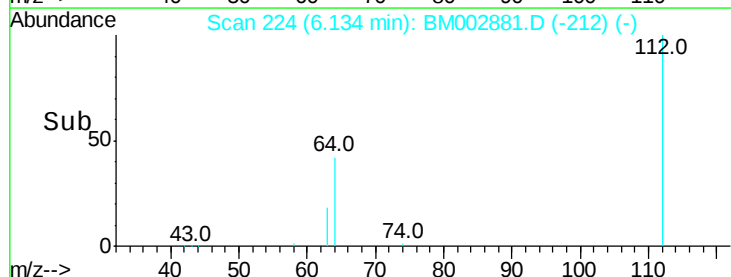
63 24.6 20.0 30.0

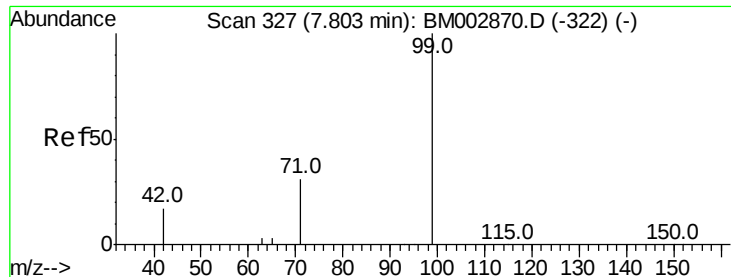


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 3.73 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.02 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

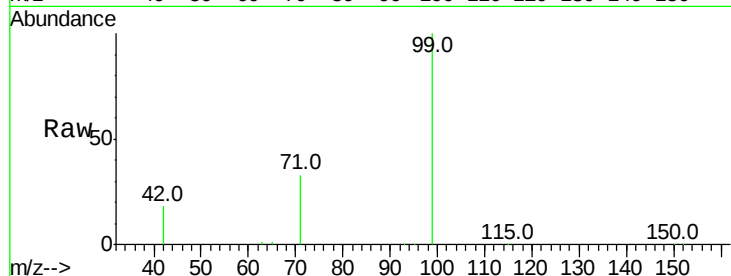
Tot Ion: 99 Resp: 85273

Ion Ratio Lower Upper

99 100

42 15.5 12.4 18.6

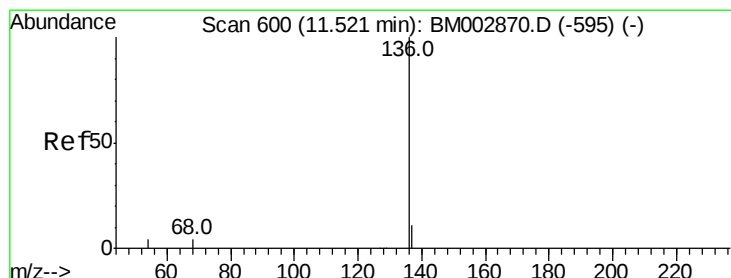
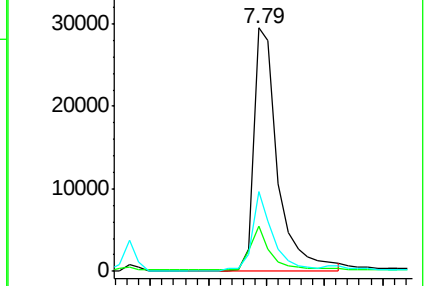
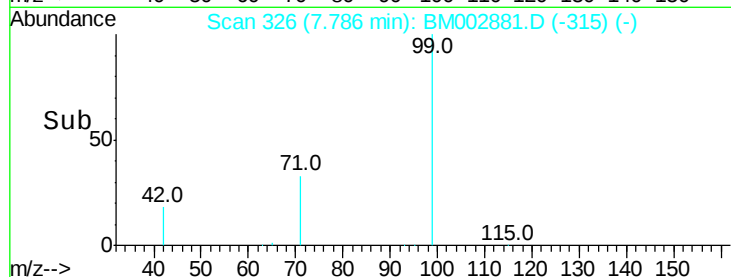
71 28.0 21.4 32.0



Abundance Ion 99.00 (98.70 to 99.70): BM002870.D (-322) (-)

Ion 42.00 (41.70 to 42.70): BM002870.D (-322) (-)

Ion 71.00 (70.70 to 71.70): BM002870.D (-322) (-)



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.51 min Scan# 600

Delta R.T. -0.01 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Tgt Ion: 136 Resp: 344641

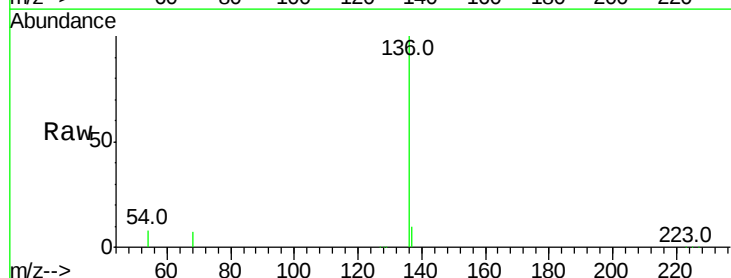
Ion Ratio Lower Upper

136 100

137 10.4 9.1 13.7

54 7.8 3.5 5.3#

68 6.6 3.3 4.9#

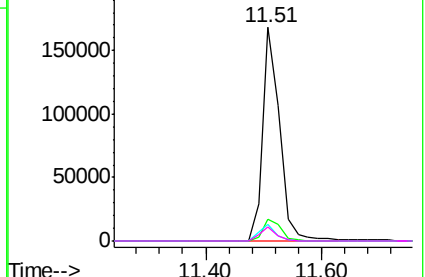
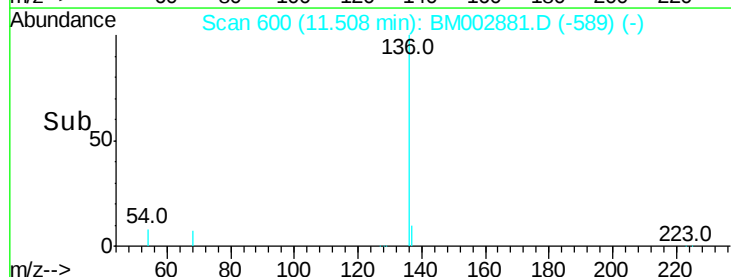


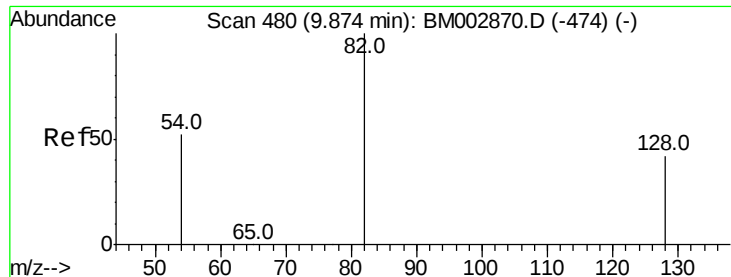
Abundance Ion 136.00 (135.70 to 136.70): BM002870.D (-595) (-)

Ion 137.00 (136.70 to 137.70): BM002870.D (-595) (-)

Ion 54.00 (53.70 to 54.70): BM002870.D (-595) (-)

Ion 68.00 (67.70 to 68.70): BM002870.D (-595) (-)





#8

Nitrobenzene-d5

Concen: 1.92 ng

RT: 9.88 min Scan# 481

Delta R.T. 0.00 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

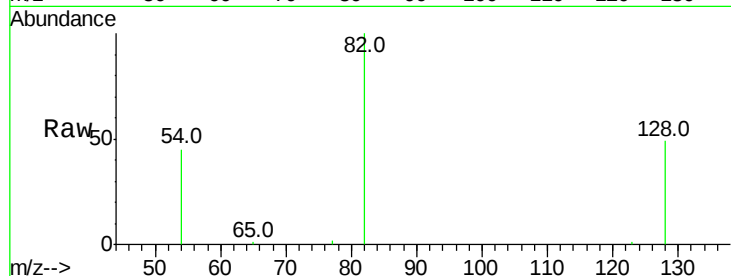
Tot Ion: 82 Resp: 33355

Ion Ratio Lower Upper

82 100

128 48.9 34.1 51.1

54 44.6 42.6 63.8

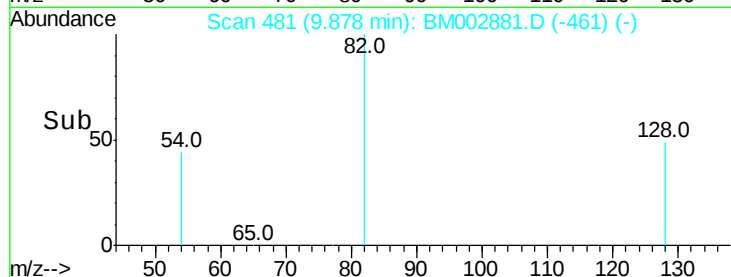


Abundance Ion 82.00 (81.70 to 82.70): BM002870.D (-474) (-)

Ion 128.00 (127.70 to 128.70): BM002870.D (-474) (-)

Ion 54.00 (53.70 to 54.70): BM002870.D (-474) (-)

Time-->



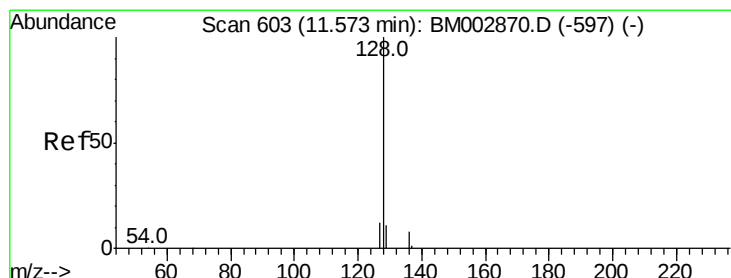
Abundance

Ion 82.00 (81.70 to 82.70): BM002870.D (-474) (-)

Ion 128.00 (127.70 to 128.70): BM002870.D (-474) (-)

Ion 54.00 (53.70 to 54.70): BM002870.D (-474) (-)

Time-->



#10

Naphthalene

Concen: 1.26 ng

RT: 11.56 min Scan# 603

Delta R.T. -0.01 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

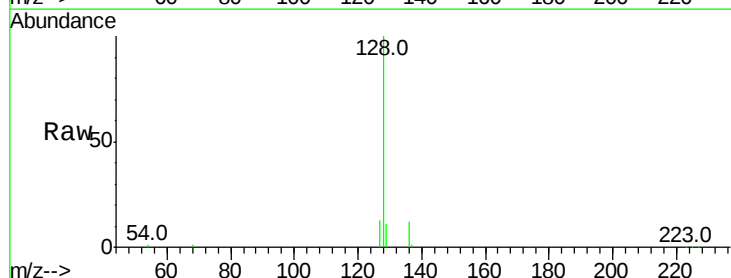
Tgt Ion: 128 Resp: 96468

Ion Ratio Lower Upper

128 100

129 10.8 9.4 14.2

127 13.1 9.6 14.4

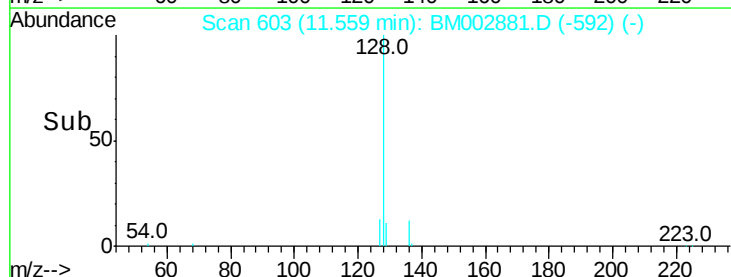


Abundance Ion 128.00 (127.70 to 128.70): BM002870.D (-597) (-)

Ion 129.00 (128.70 to 129.70): BM002870.D (-597) (-)

Ion 127.00 (126.70 to 127.70): BM002870.D (-597) (-)

Time-->



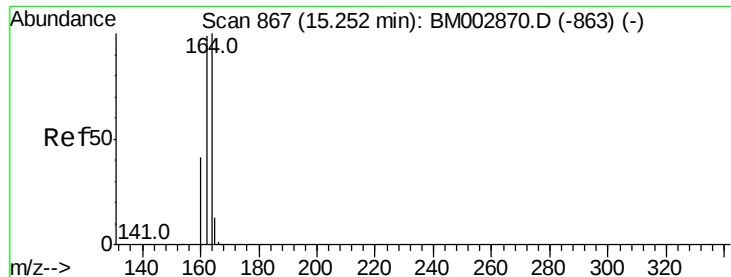
Abundance

Ion 128.00 (127.70 to 128.70): BM002870.D (-597) (-)

Ion 129.00 (128.70 to 129.70): BM002870.D (-597) (-)

Ion 127.00 (126.70 to 127.70): BM002870.D (-597) (-)

Time-->



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.25 min Scan# 868

Delta R.T. -0.00 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

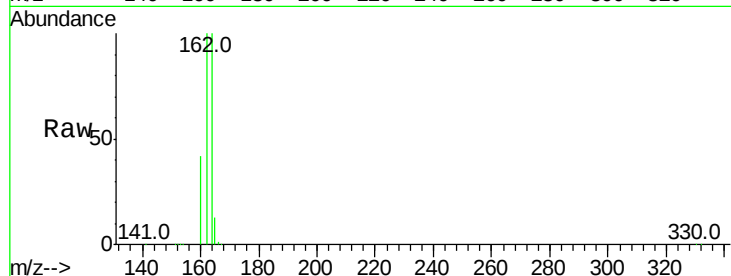
Tot Ion:164 Resp: 189015

Ion Ratio Lower Upper

164 100

162 100.1 79.6 119.4

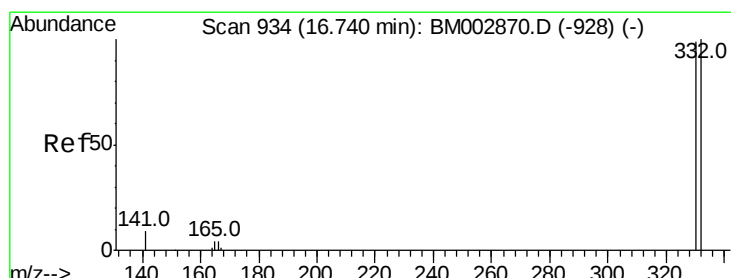
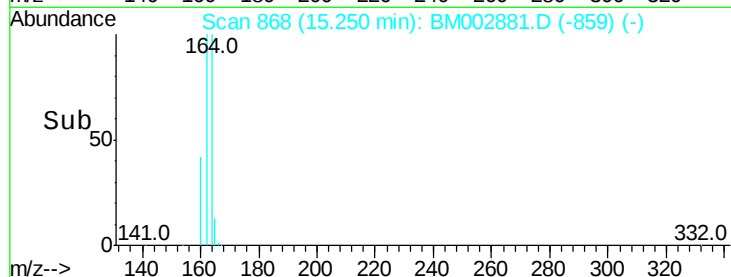
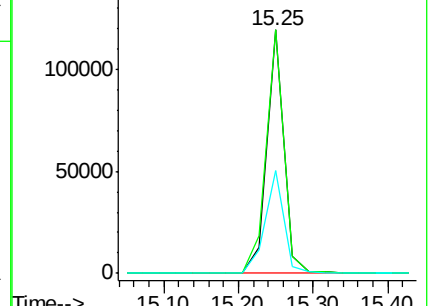
160 42.0 33.1 49.7



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: 3.12 ng

RT: 16.74 min Scan# 935

Delta R.T. -0.00 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

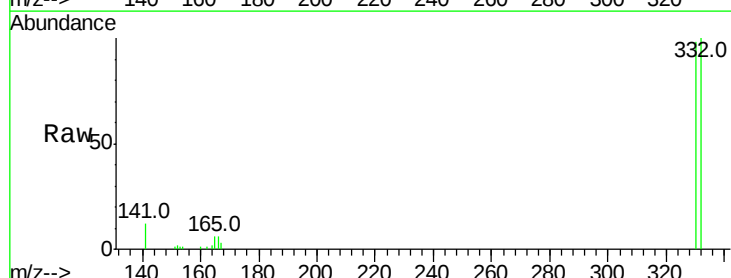
Tgt Ion:330 Resp: 19501

Ion Ratio Lower Upper

330 100

332 97.2 76.6 115.0

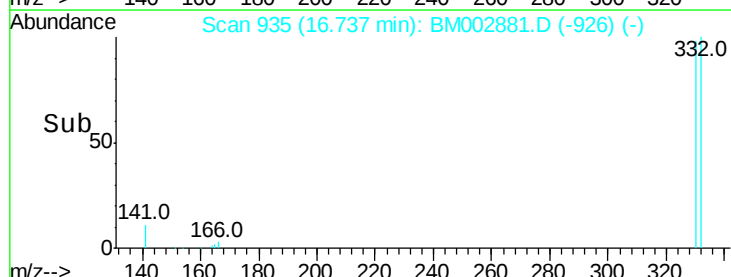
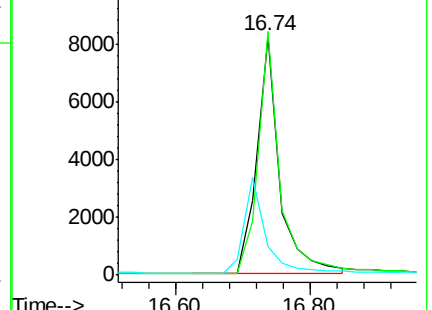
141 0.0 0.0 0.0

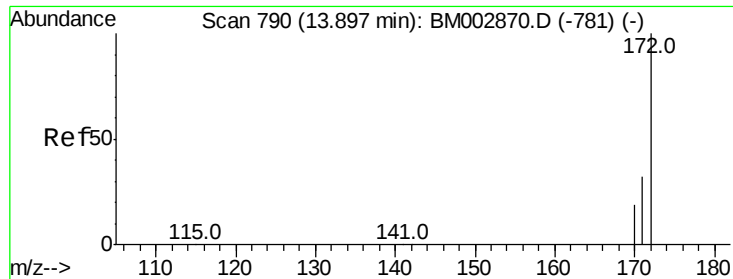


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

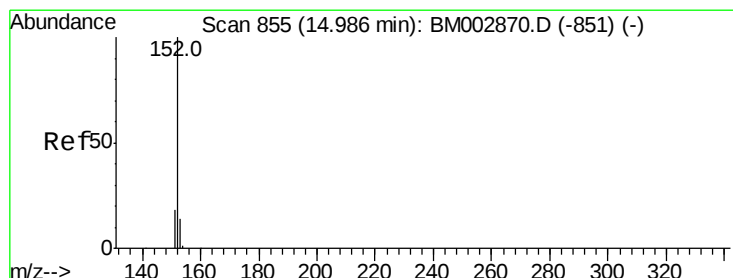
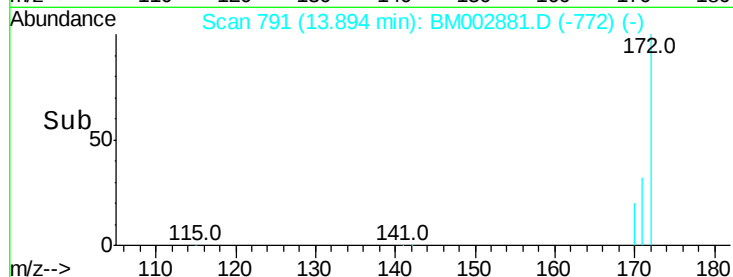
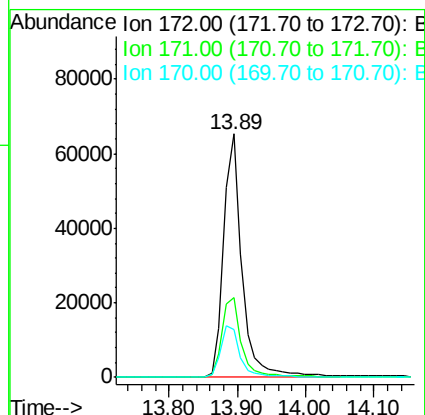
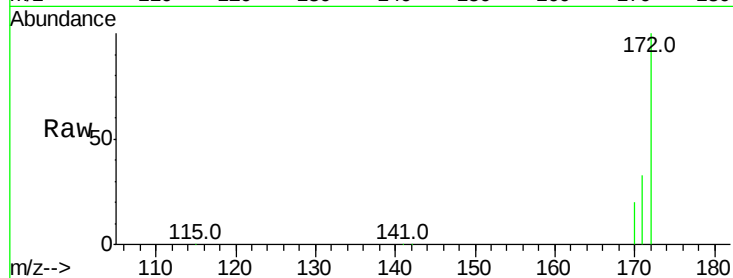




#15
2-Fluorobiphenyl
Concen: 2.12 ng
RT: 13.89 min Scan# 791
Delta R.T. -0.00 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

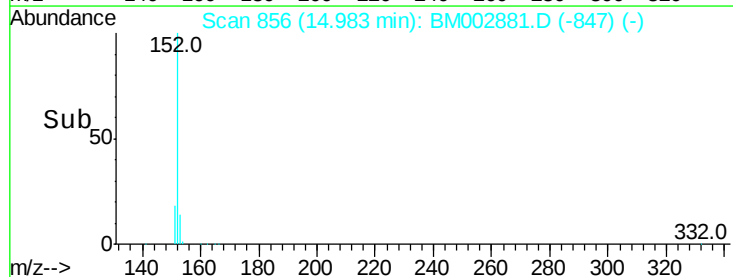
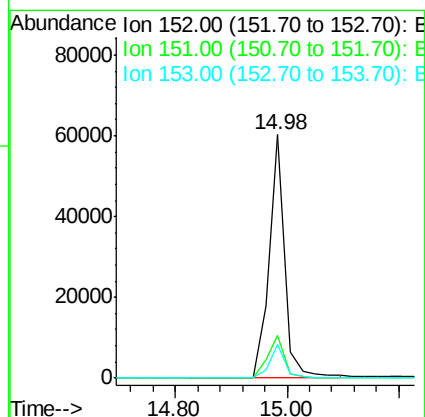
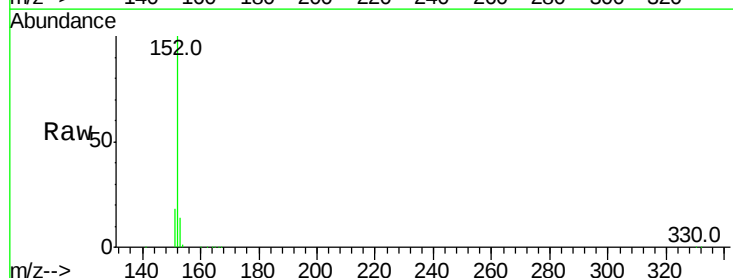
Instrument :
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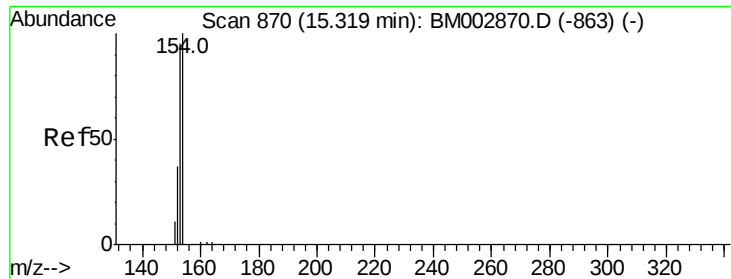
Tot Ion:172 Resp: 121224
Ion Ratio Lower Upper
172 100
171 32.6 26.1 39.1
170 19.9 15.7 23.5



#16
Acenaphthylene
Concen: 1.47 ng
RT: 14.98 min Scan# 856
Delta R.T. -0.00 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

Tgt Ion:152 Resp: 117756
Ion Ratio Lower Upper
152 100
151 19.1 15.3 22.9
153 13.2 10.5 15.7

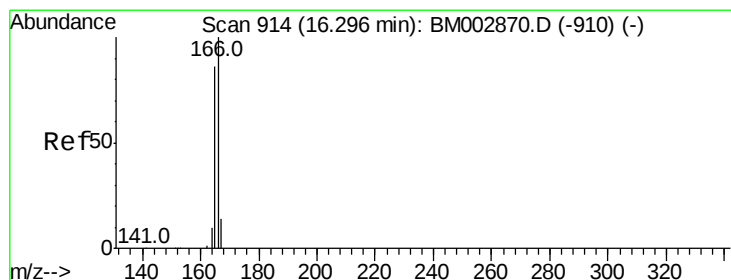
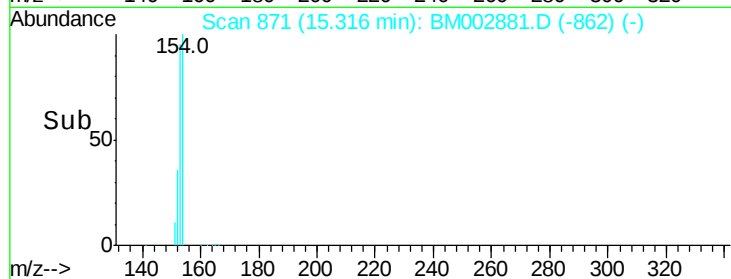
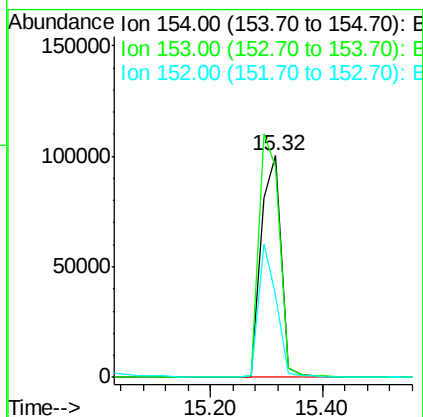
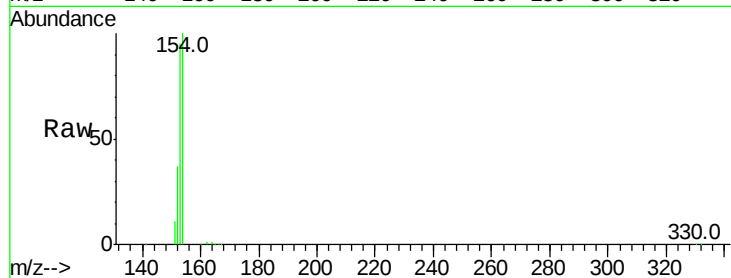




#17
Acenaphthene
Concen: 4.85 ng
RT: 15.32 min Scan# 871
Delta R.T. -0.00 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

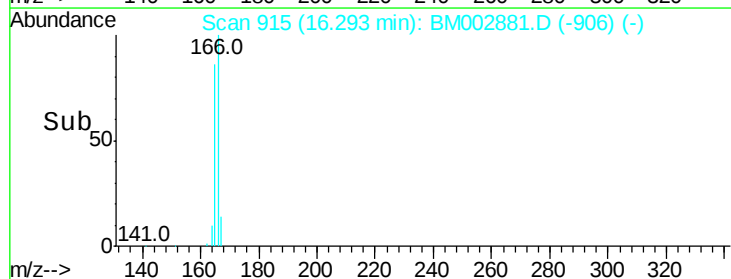
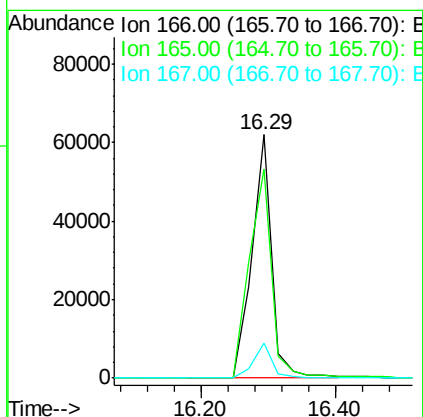
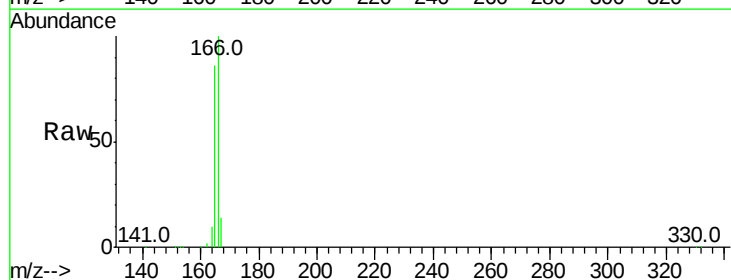
Instrument :
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ClientSampleId :
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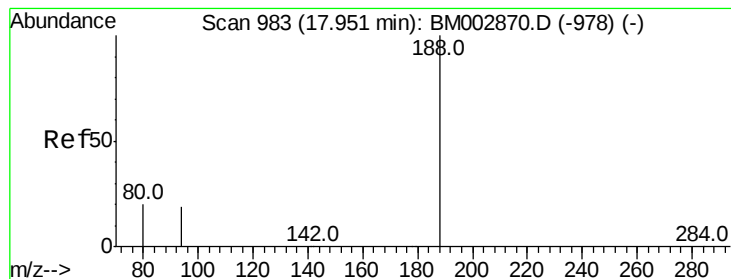
Tot Ion:154 Resp: 251272
Ion Ratio Lower Upper
154 100
153 0.0 0.0 0.0
152 0.0 0.0 0.0



#18
Fluorene
Concen: 2.00 ng
RT: 16.29 min Scan# 915
Delta R.T. -0.00 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

Tgt Ion:166 Resp: 126709
Ion Ratio Lower Upper
166 100
165 96.0 77.3 115.9
167 13.3 10.9 16.3





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.97 min Scan# 985

Delta R.T. 0.02 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

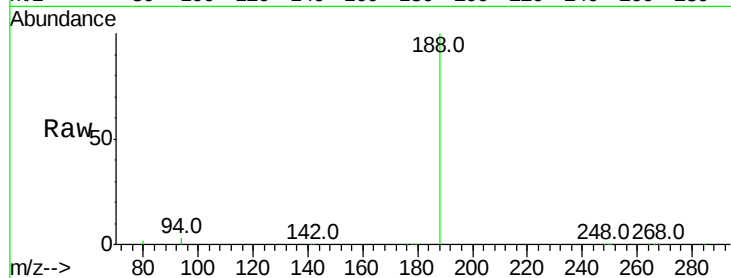
Tot Ion:188 Resp: 356909

Ion Ratio Lower Upper

188 100

94 2.7 15.2 22.8#

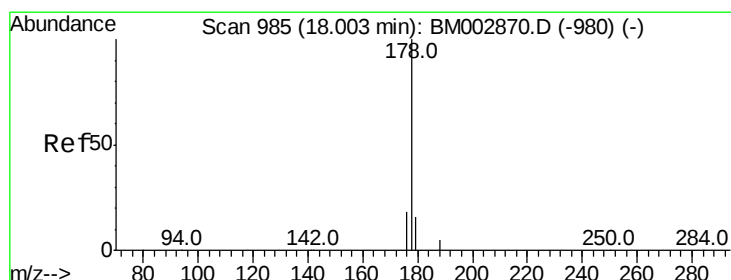
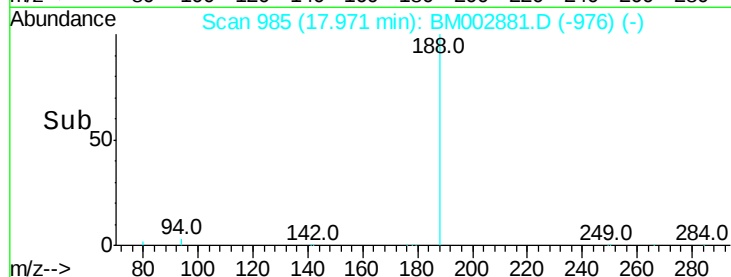
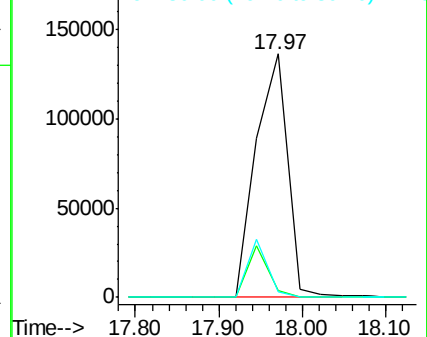
80 2.2 15.9 23.9#



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



#23

Phenanthrene

Concen: 0.54 ng

RT: 18.00 min Scan# 986

Delta R.T. -0.01 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

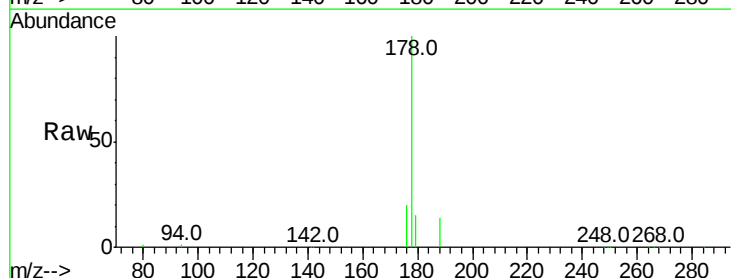
Tgt Ion:178 Resp: 56292

Ion Ratio Lower Upper

178 100

176 18.8 14.6 21.8

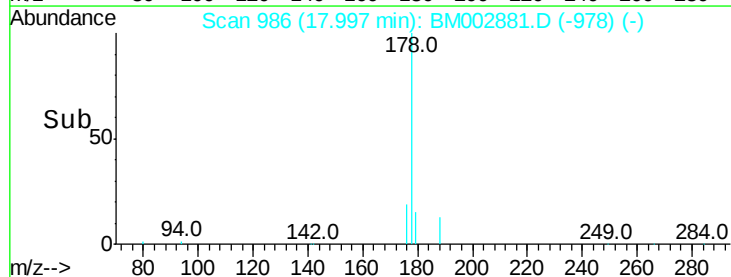
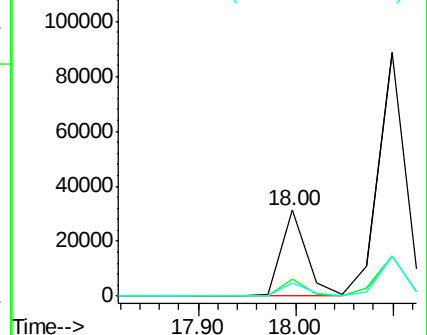
179 15.5 12.5 18.7

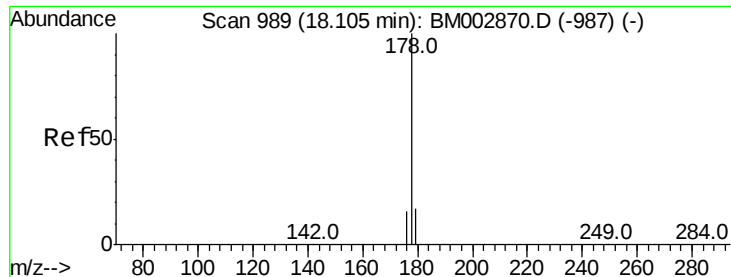


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 1.94 ng

RT: 18.10 min Scan# 990

Delta R.T. -0.01 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

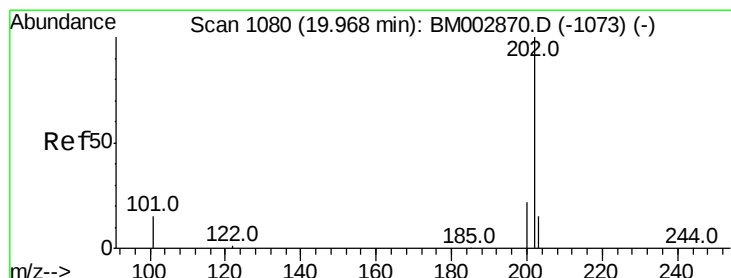
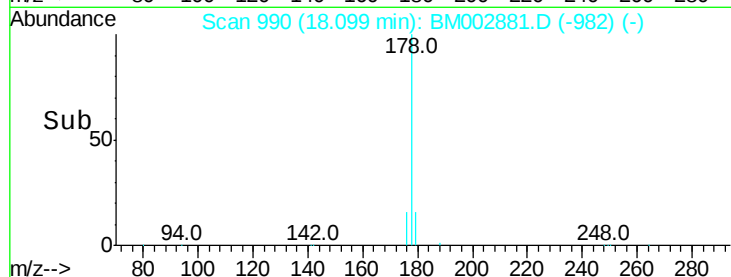
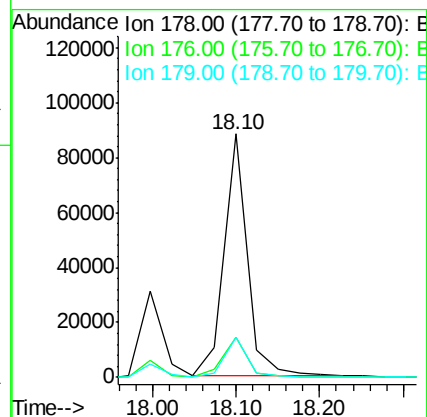
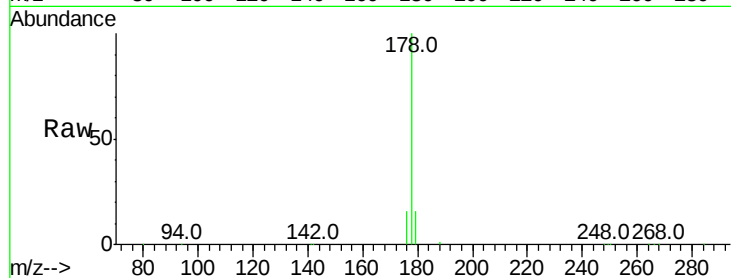
Tot Ion:178 Resp: 171380

Ion	Ratio	Lower	Upper
178	100		
176	17.3	13.9	20.9
179	15.8	12.6	18.8

178 100

176 17.3 13.9 20.9

179 15.8 12.6 18.8



#25

Fluoranthene

Concen: 1.65 ng

RT: 19.98 min Scan# 1082

Delta R.T. 0.01 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

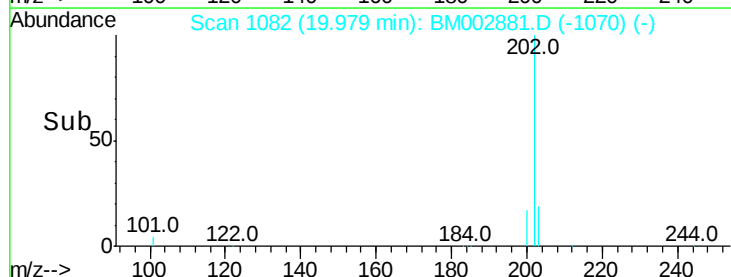
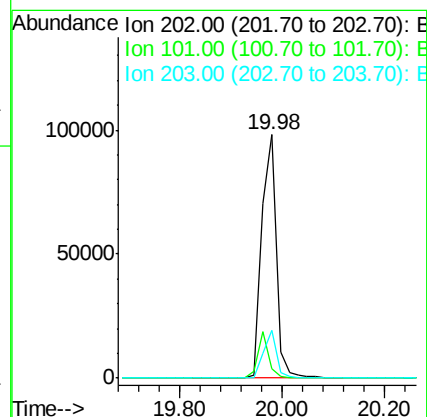
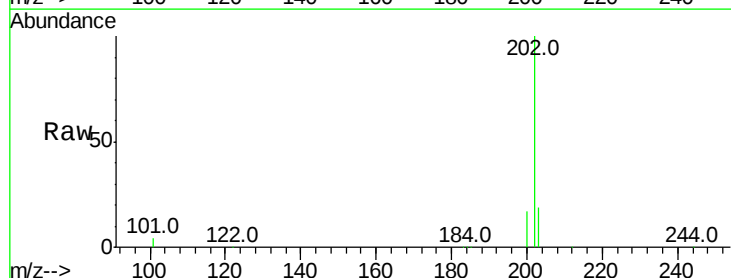
Tgt Ion:202 Resp: 190375

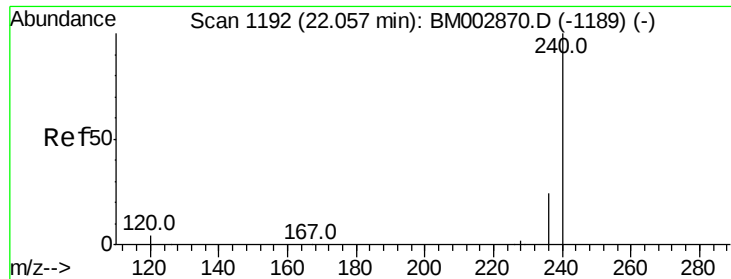
Ion	Ratio	Lower	Upper
202	100		
101	14.1	11.0	16.6
203	17.4	13.8	20.6

202 100

101 14.1 11.0 16.6

203 17.4 13.8 20.6

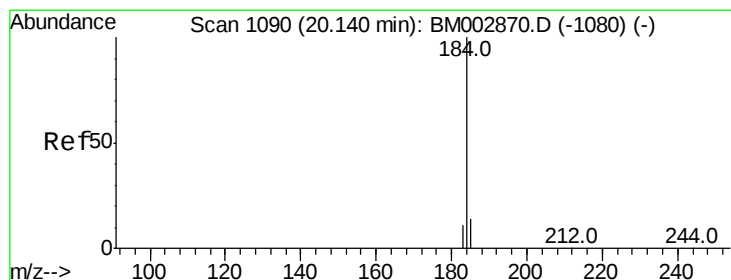
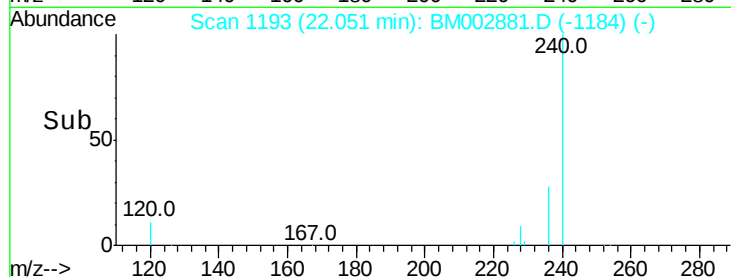
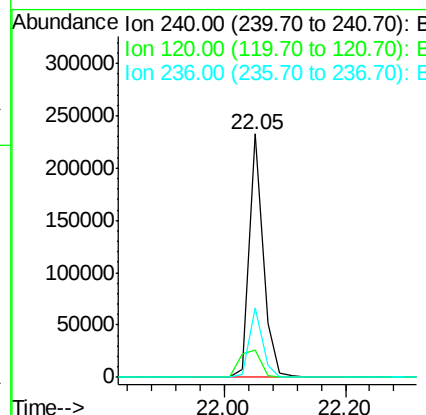
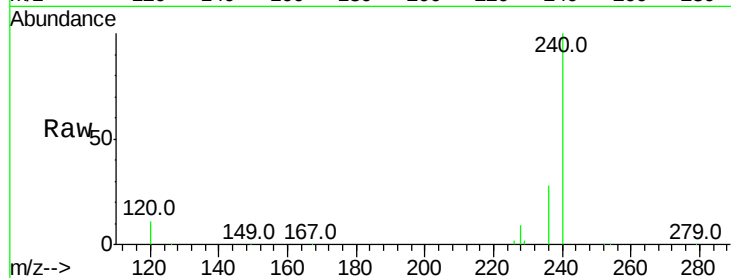




#26
Chrysene-d12
Concen: 5.00 ng
RT: 22.05 min Scan# 1193
Delta R.T. -0.01 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

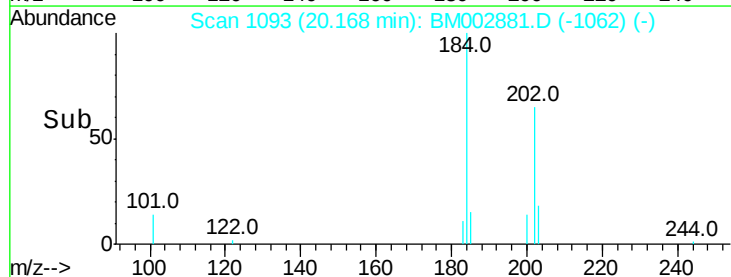
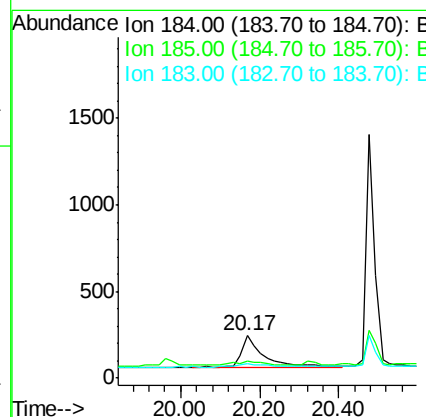
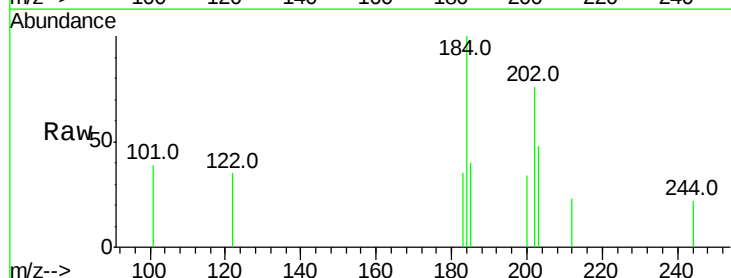
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WPDL

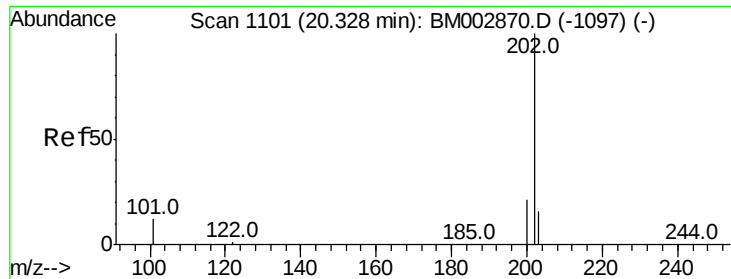
Tot Ion:240 Resp: 366609
Ion Ratio Lower Upper
240 100
120 11.3 3.3 4.9#
236 28.4 19.5 29.3



#27
Benzidine
Concen: 0.19 ng
RT: 20.17 min Scan# 1093
Delta R.T. 0.03 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

Tgt Ion:184 Resp: 688
Ion Ratio Lower Upper
184 100
185 40.3 12.0 18.0#
183 34.6 8.9 13.3#

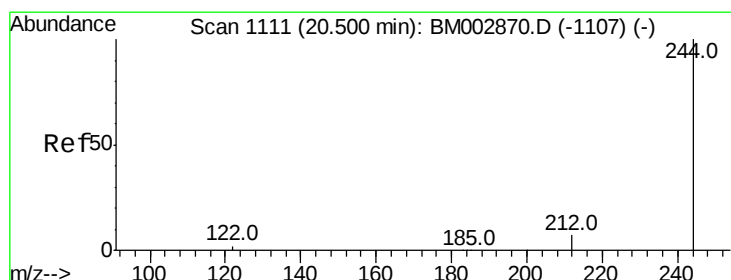
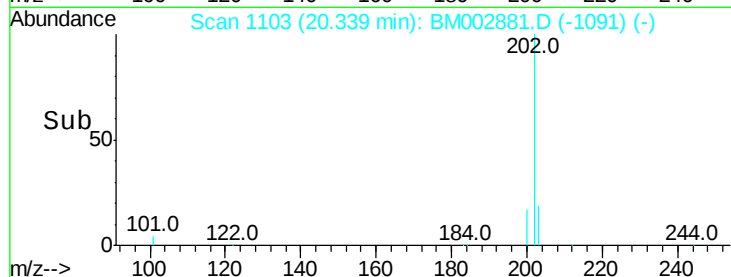
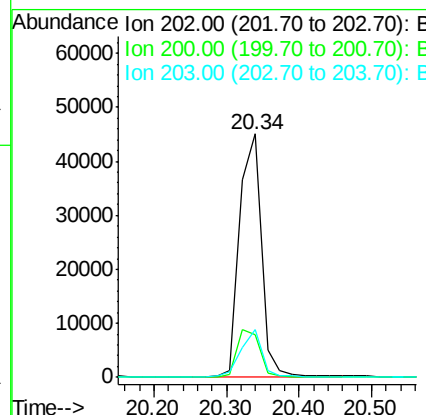
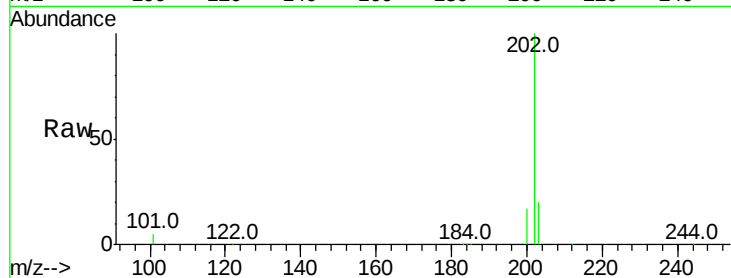




#28
Pvrene
Concen: 0.94 ng
RT: 20.34 min Scan# 1103
Delta R.T. 0.01 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

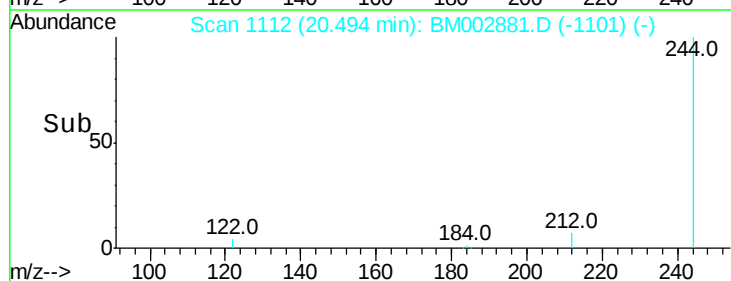
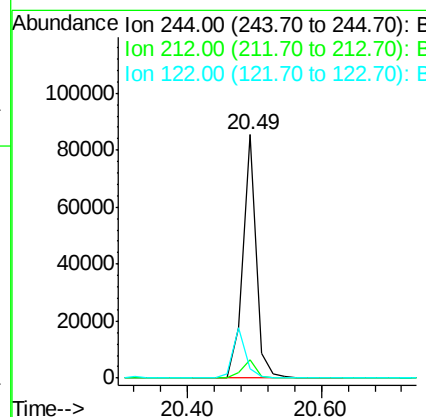
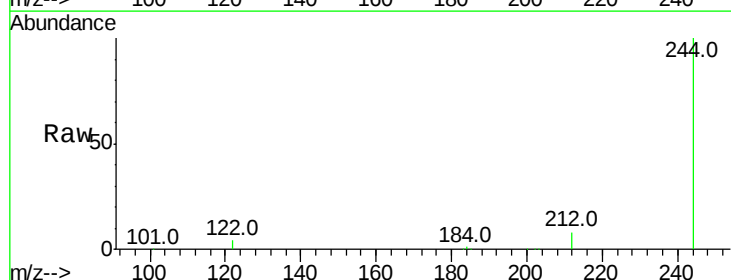
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WPDL

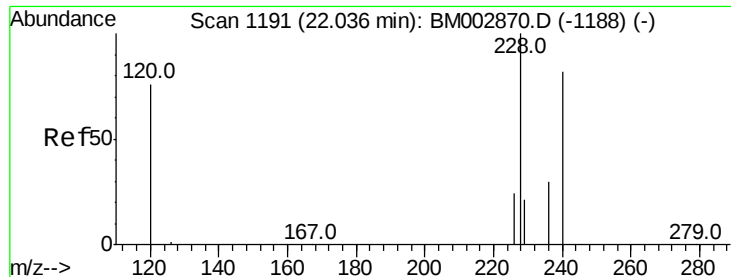
Tot Ion:202 Resp: 92682
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.4
203 18.6 13.8 20.8



#29
Terphenyl-d14
Concen: 2.41 ng
RT: 20.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

Tgt Ion:244 Resp: 117811
Ion Ratio Lower Upper
244 100
212 7.6 5.6 8.4
122 3.9 2.2 3.2#





#30

Benzo(a)anthracene

Concen: 1.56 ng

RT: 22.03 min Scan# 1192

Delta R.T. -0.01 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

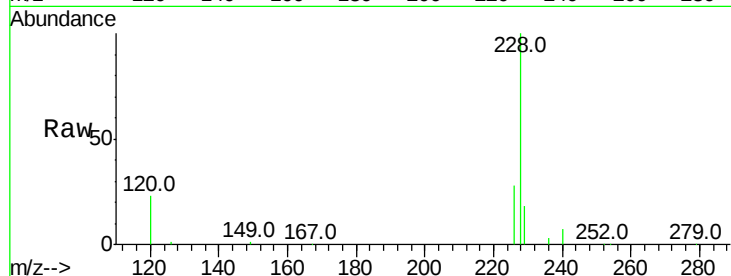
Tot Ion:228 Resp: 164562

Ion Ratio Lower Upper

228 100

226 27.5 19.0 28.6

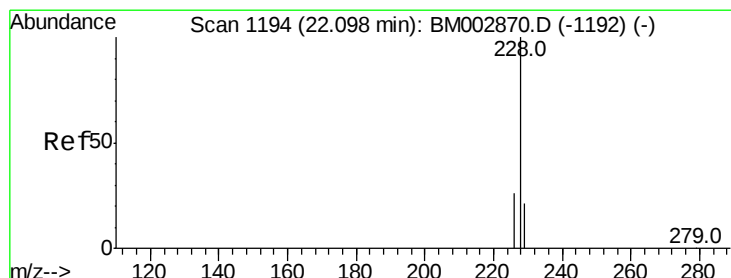
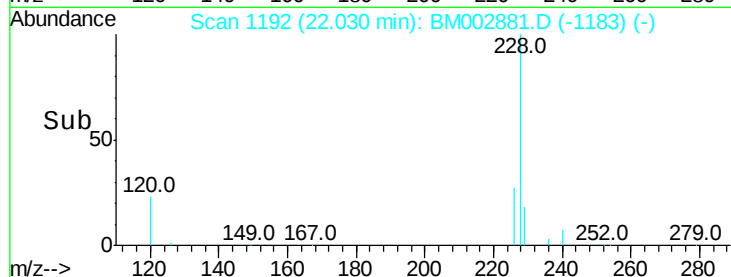
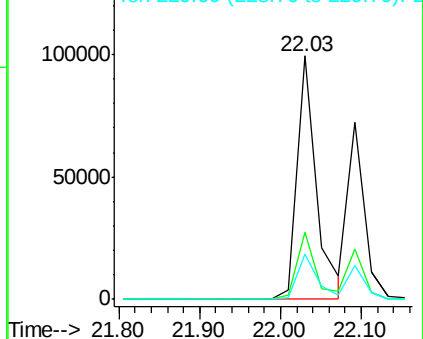
229 18.5 16.8 25.2



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: 1.06 ng

RT: 22.09 min Scan# 1195

Delta R.T. -0.01 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

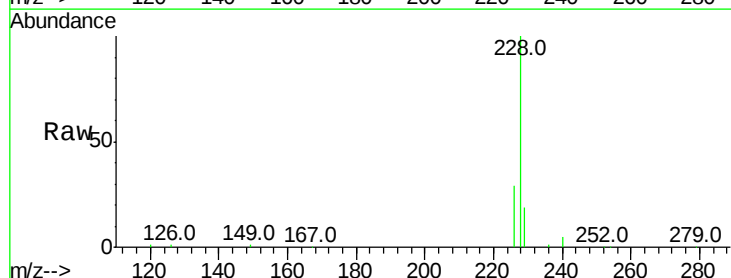
Tgt Ion:228 Resp: 104331

Ion Ratio Lower Upper

228 100

226 28.8 20.6 30.8

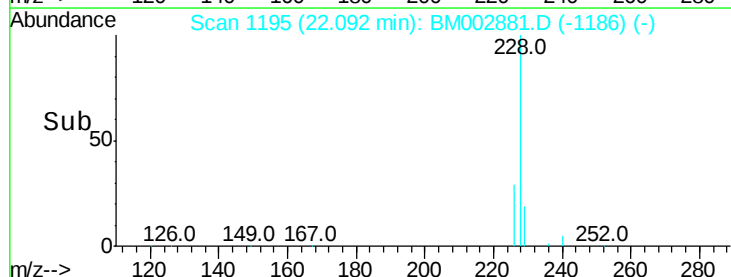
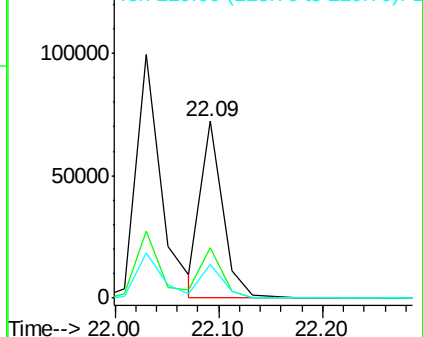
229 19.2 17.4 26.2

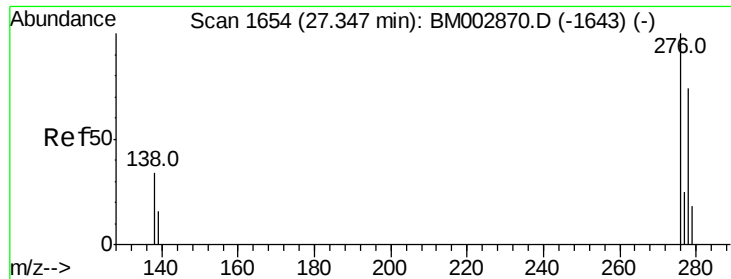


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

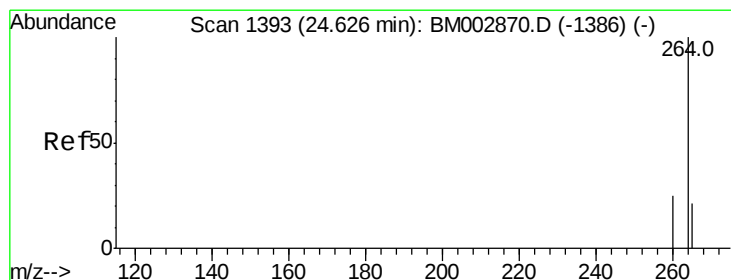
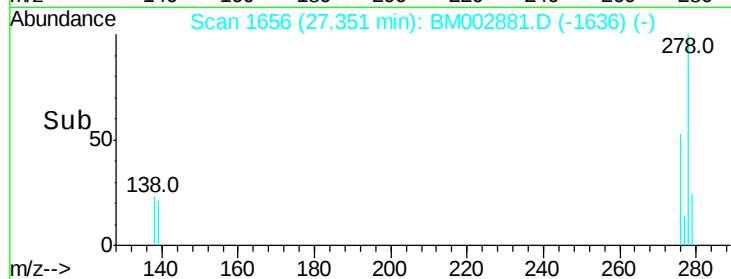
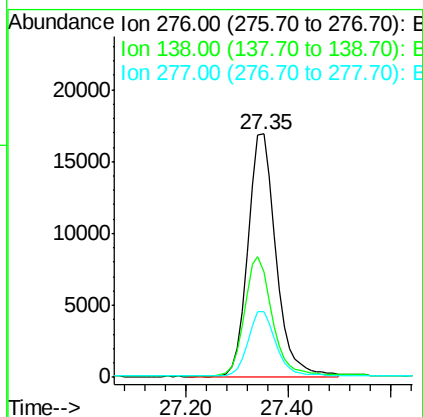
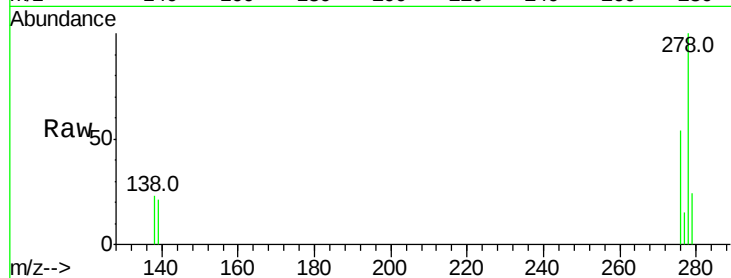




#34
Indeno(1,2,3-cd)pyrene
Concen: 0.54 ng
RT: 27.35 min Scan# 1656
Delta R.T. 0.00 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

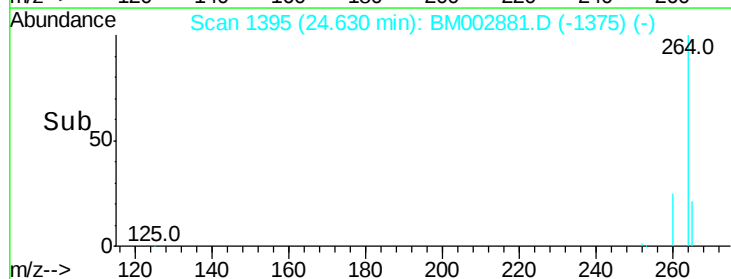
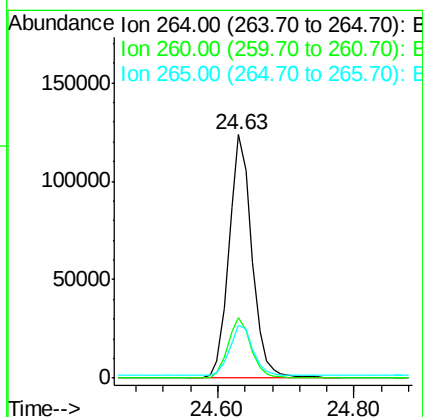
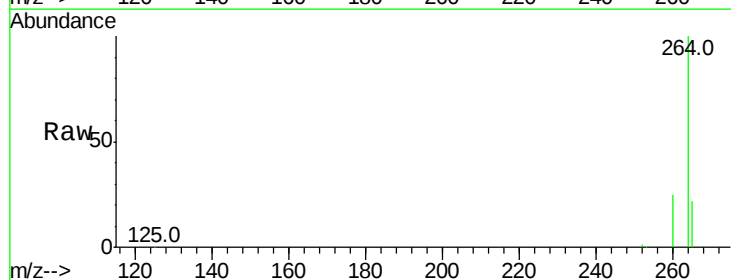
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WPDL

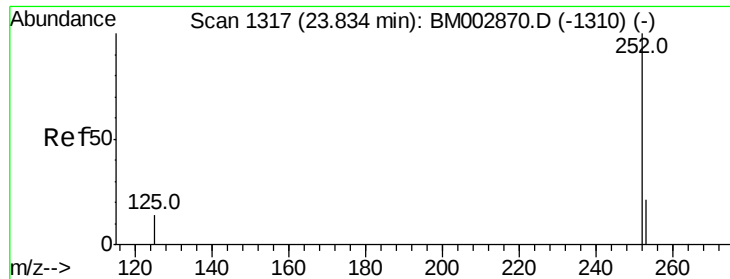
Tot Ion:276 Resp: 63851
Ion Ratio Lower Upper
276 100
138 48.2 29.0 43.6#
277 26.8 19.8 29.8



#35
Perylene-d12
Concen: 5.00 ng
RT: 24.63 min Scan# 1395
Delta R.T. 0.00 min
Lab File: BM002881.D
Acq: 09 Oct 2015 10:49

Tgt Ion:264 Resp: 289435
Ion Ratio Lower Upper
264 100
260 25.0 20.1 30.1
265 21.8 17.6 26.4





#36

Benzo(b)fluoranthene

Concen: 1.36 ng

RT: 23.84 min Scan# 1319

Delta R.T. 0.00 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

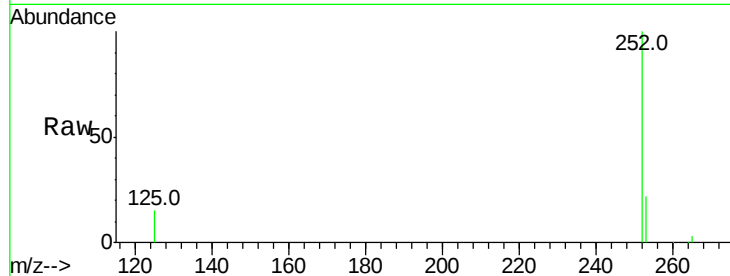
Tot Ion:252 Resp: 112802

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

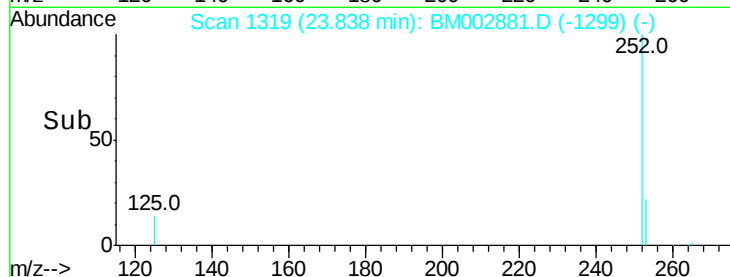
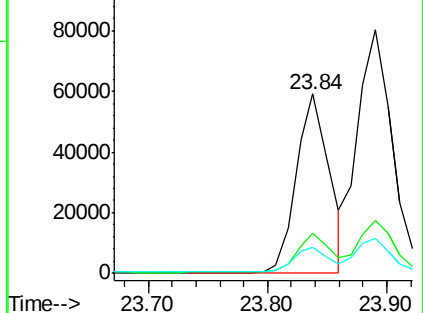
125 14.6 12.4 18.6



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



#37

Benzo(k)fluoranthene

Concen: 2.05 ng

RT: 23.89 min Scan# 1324

Delta R.T. 0.00 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

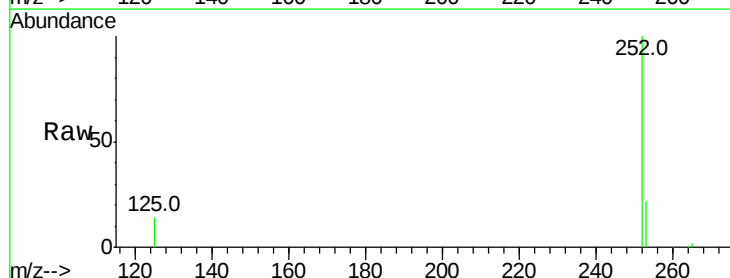
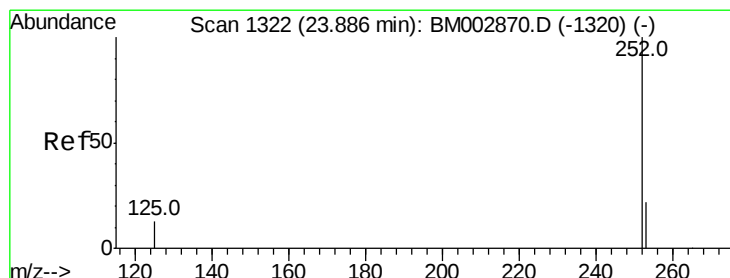
Tgt Ion:252 Resp: 164163

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

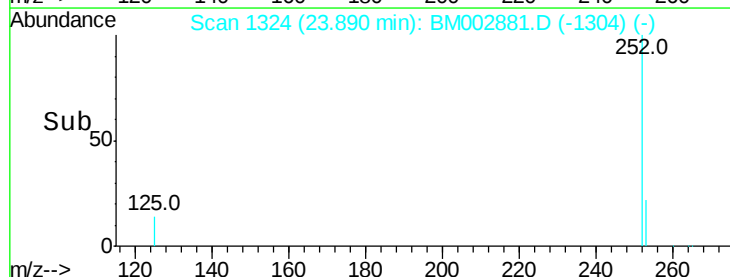
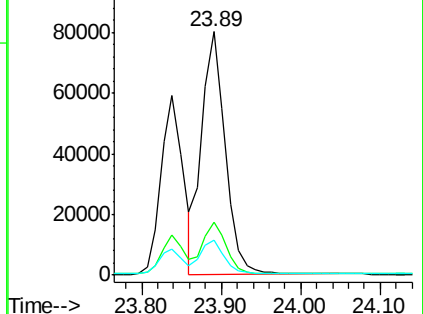
125 14.4 12.3 18.5

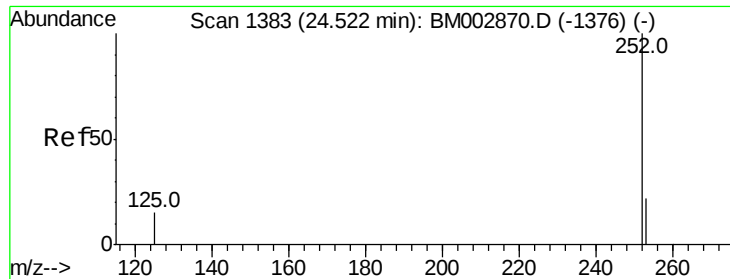


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 1.59 ng

RT: 24.53 min Scan# 1385

Delta R.T. 0.00 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL

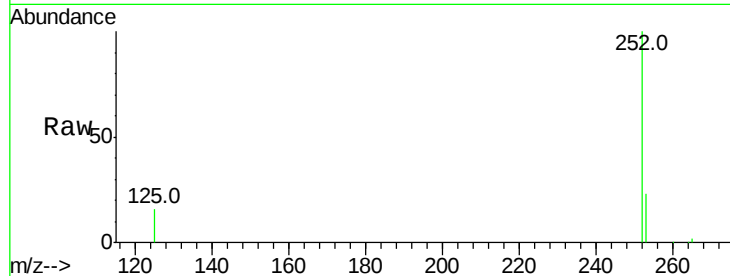
Tot Ion:252 Resp: 120810

Ion Ratio Lower Upper

252 100

253 22.6 18.4 27.6

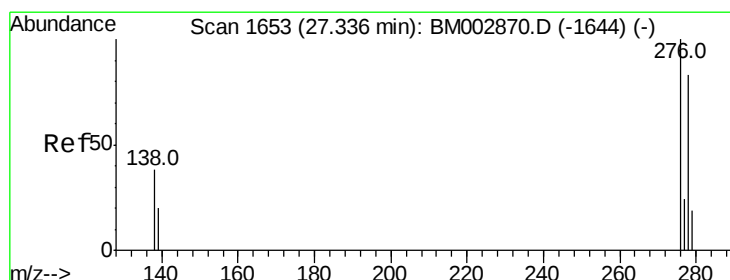
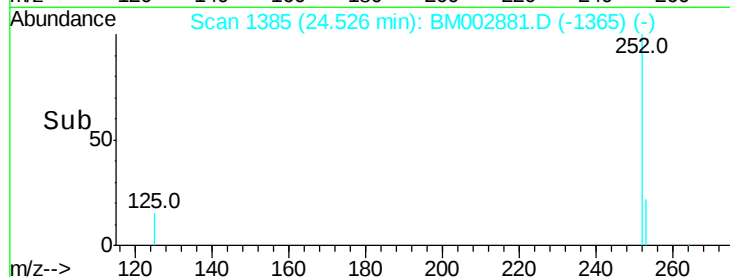
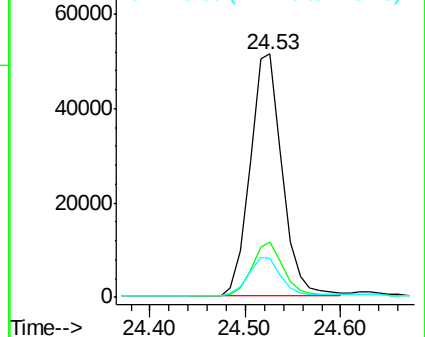
125 15.7 13.3 19.9



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: 1.68 ng

RT: 27.34 min Scan# 1655

Delta R.T. 0.00 min

Lab File: BM002881.D

Acq: 09 Oct 2015 10:49

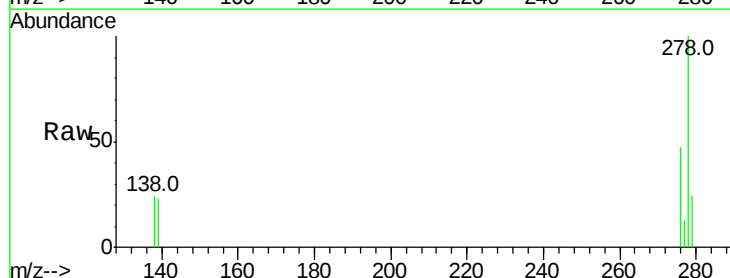
Tgt Ion:278 Resp: 124601

Ion Ratio Lower Upper

278 100

139 23.3 19.8 29.6

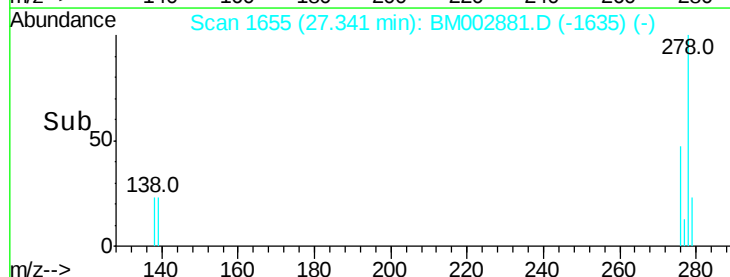
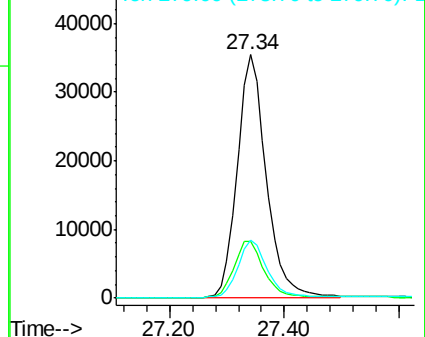
279 23.8 19.1 28.7

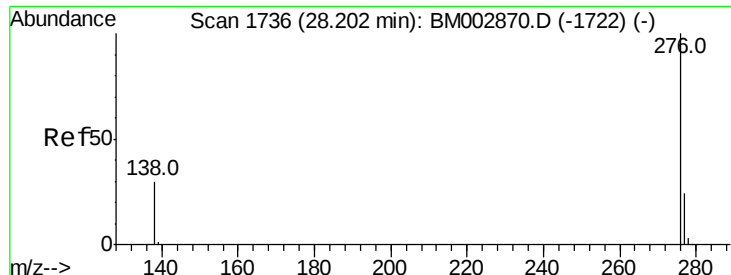


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#40

Benzo(a,h,i)perylene

Concen: 0.35 ng

RT: 28.22 min Scan# 1739

Delta R.T. 0.01 min

Lab File: BM002881.D

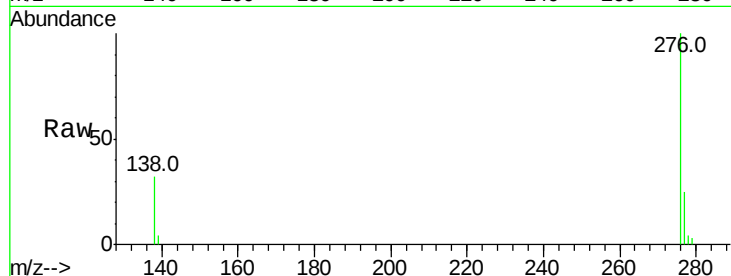
Acq: 09 Oct 2015 10:49

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WPDL



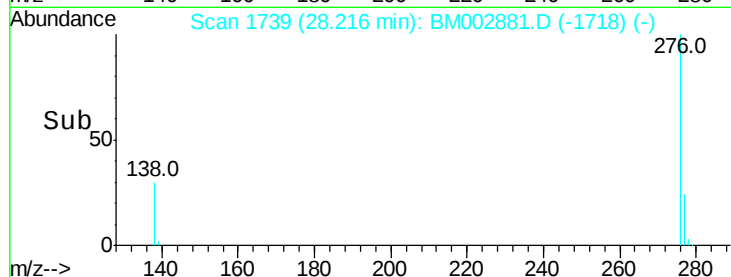
Tot Ion: 276 Resp: 26513

Ion Ratio Lower Upper

276 100

277 24.7 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

