

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032515\
 Data File : BE089853.D
 Acq On : 26 Mar 2015 1:31
 Operator : TP/JJ
 Sample : G1589-02
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Quant Time: Mar 26 03:31:05 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 25 16:20:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	185782	5.00	ng	0.02
4) Naphthalene-d8	10.30	136	737587	5.00	ng	0.04
8) Acenaphthene-d10	14.48	164	289034	5.00	ng	0.10
13) Phenanthrene-d10	18.01	188	480608	5.00	ng	0.09
19) Chrysene-d12	24.28	240	474055	5.00	ng	0.02
25) Perylene-d12	27.42	264	450042	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) Nitrobenzene-d5	8.70	82	465743	8.65	ng	0.02
9) 2-Fluorobiphenyl	12.91	172	590512	8.73	ng	0.06
21) Terphenyl-d14	21.90	244	619608	8.86	ng	0.04

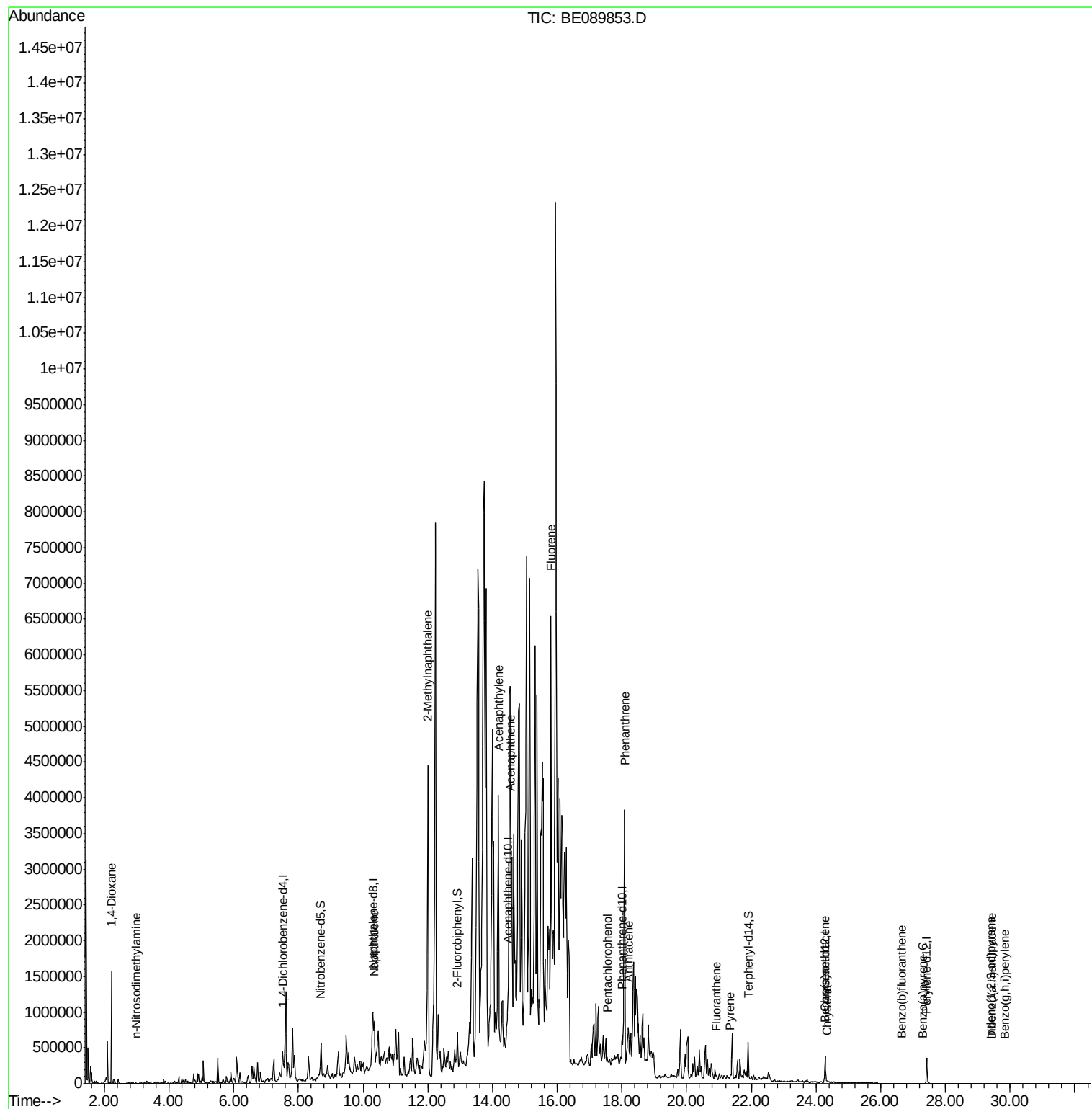
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.22	88	38511	1.61	ng	# 1
3) n-Nitrosodimethylamine	2.99	42	3970	0.11	ng	# 15
6) Naphthalene	10.34	128	648654	4.45	ng	# 1
7) 2-Methylnaphthalene	12.01	142	4321476	53.35	ng	# 88
10) Acenaphthylene	14.18	152	2456588	5.94	ng	# 1
11) Acenaphthene	14.56	154	889929	14.06	ng	# 11
12) Fluorene	15.81	166	2411832	31.41	ng	# 80
15) Pentachlorophenol	17.57	266	2691	0.54	ng	# 13
16) Phenanthrene	18.08	178	5222009	49.43	ng	# 94
17) Anthracene	18.19	178	772304	8.18	ng	# 1
18) Fluoranthene	20.93	202	28495	0.30	ng	# 1
20) Pyrene	21.35	202	46886	0.39	ng	# 18
22) Benzo(a)anthracene	24.26	228	13025	0.15	ng	# 1
23) Chrysene	24.34	228	25285	0.26	ng	# 38
24) Indeno(1,2,3-cd)pyrene	29.41	276	178	0.42	ng	# 41
26) Benzo(b)fluoranthene	26.65	252	2291	0.33	ng	# 1
28) Benzo(a)pyrene	27.30	252	1460	0.31	ng	# 1
29) Dibenzo(a,h)anthracene	29.45	278	31	0.26	ng	# 1
30) Benzo(g,h,i)perylene	29.83	276	906	0.26	ng	# 30

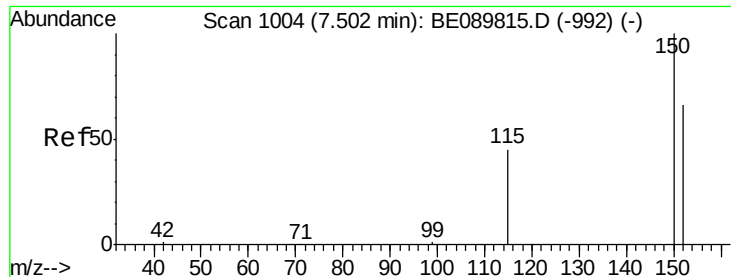
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.52 min Scan# 1007

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

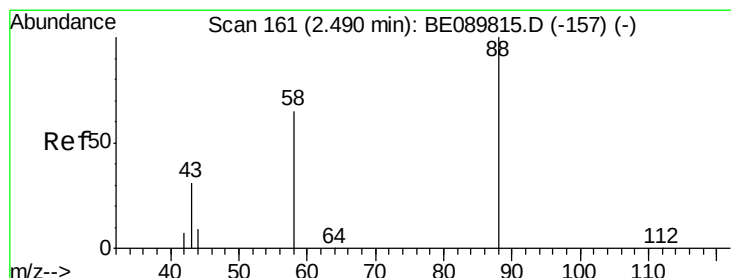
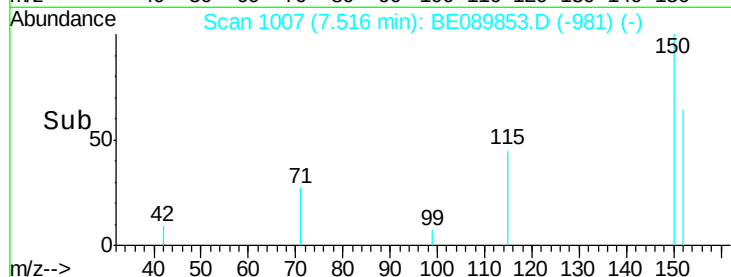
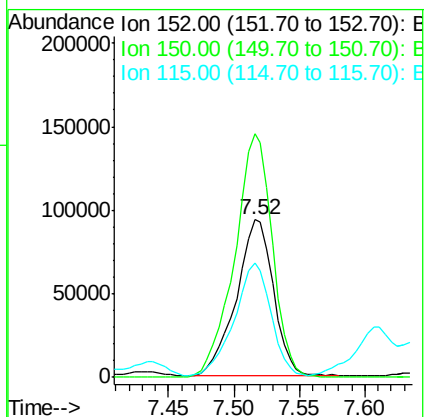
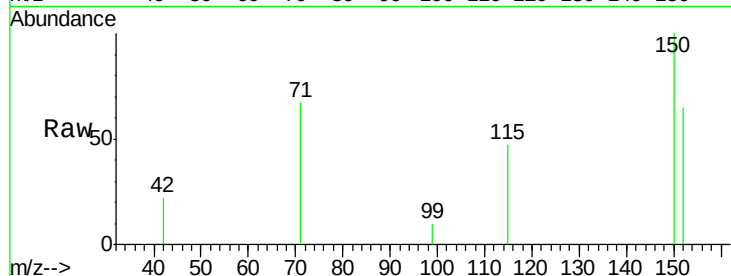
Tgt Ion:152 Resp: 185782

Ion Ratio Lower Upper

152 100

150 154.6 125.5 188.3

115 72.2 58.0 87.0



#2

1,4-Dioxane

Concen: 1.61 ng

RT: 2.22 min Scan# 121

Delta R.T. -0.30 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

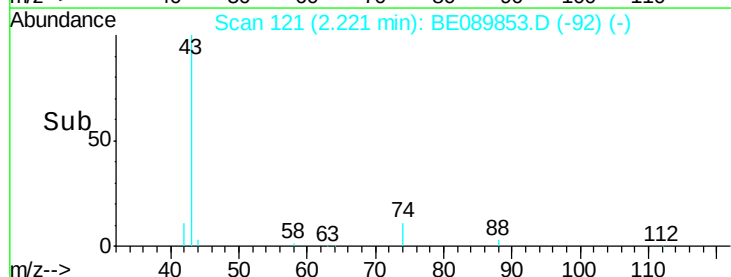
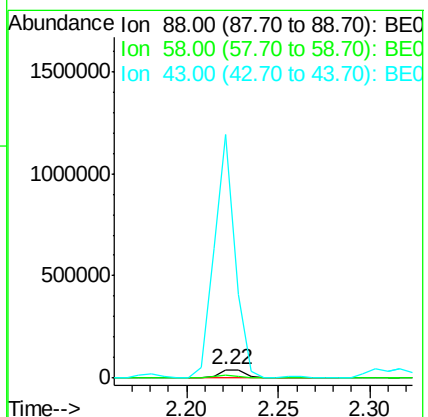
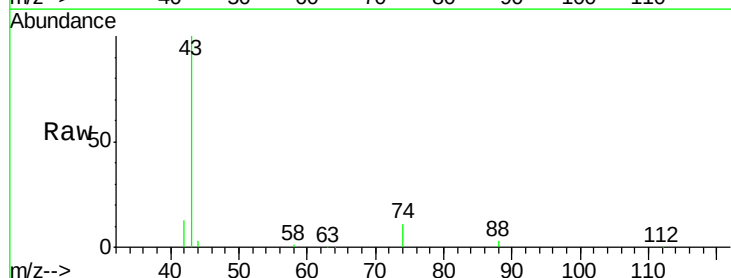
Tgt Ion: 88 Resp: 38511

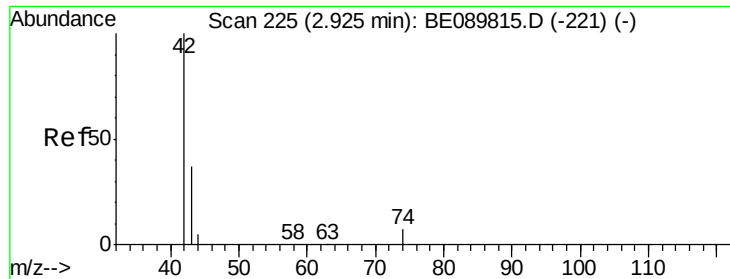
Ion Ratio Lower Upper

88 100

58 31.4 48.6 72.8#

43 2439.7 28.6 43.0#





#3

n-Nitrosodimethylamine

Concen: 0.11 ng

RT: 2.99 min Scan# 234

Delta R.T. -0.00 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

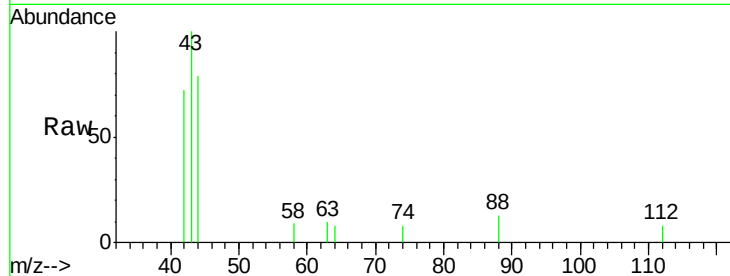
Tgt Ion: 42 Resp: 3970

Ion Ratio Lower Upper

42 100

74 2.5 68.7 103.1#

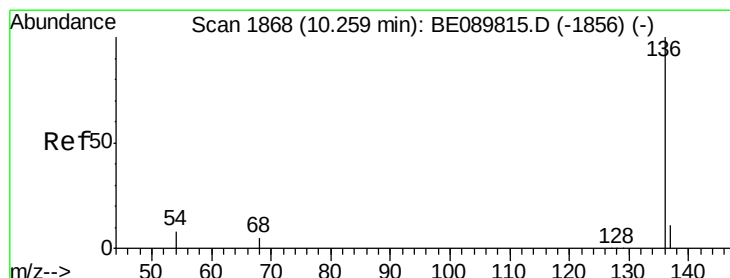
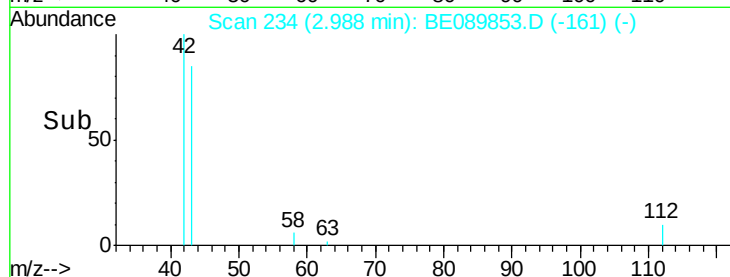
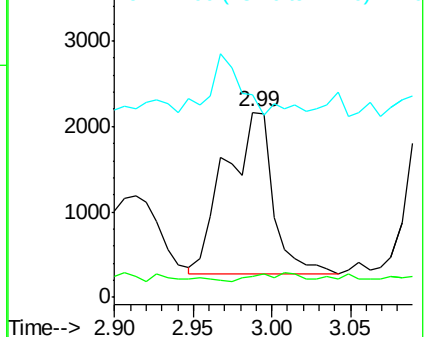
44 0.0 6.2 9.4#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.30 min Scan# 1876

Delta R.T. 0.04 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

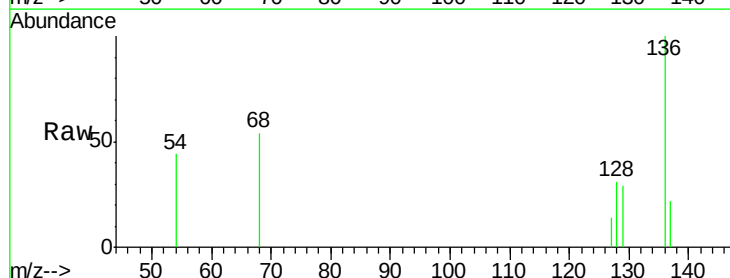
Tgt Ion: 136 Resp: 737587

Ion Ratio Lower Upper

136 100

137 22.0 8.8 13.2#

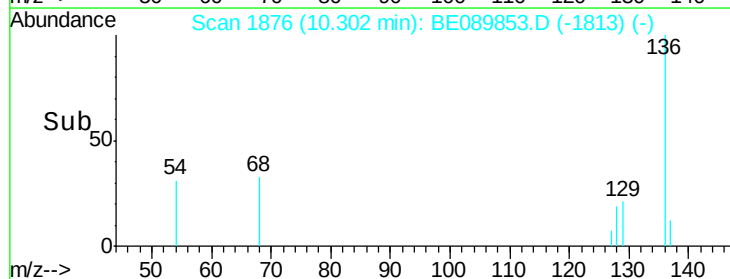
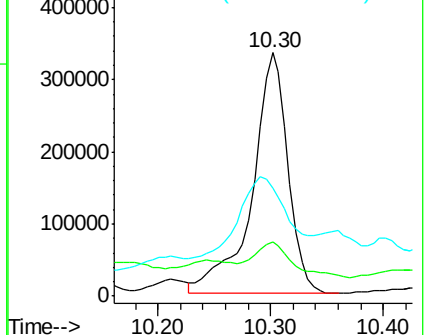
54 44.2 7.0 10.4#

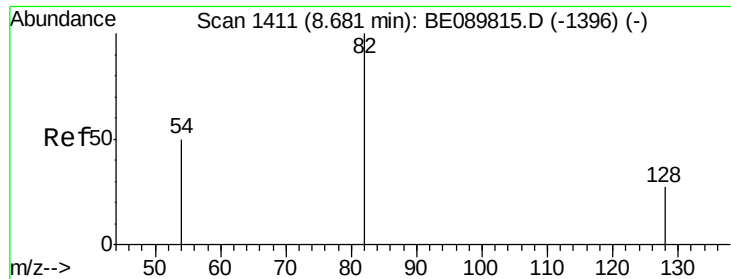


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 8.65 ng

RT: 8.70 min Scan# 1420

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

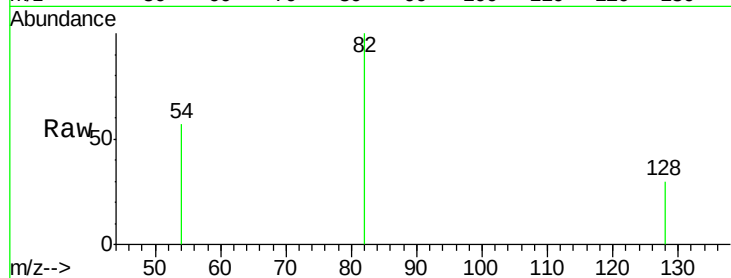
Tgt Ion: 82 Resp: 465743

Ion Ratio Lower Upper

82 100

128 29.7 24.6 37.0

54 56.6 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

8.70

300000

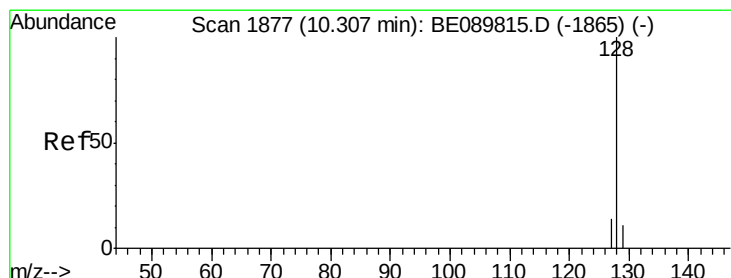
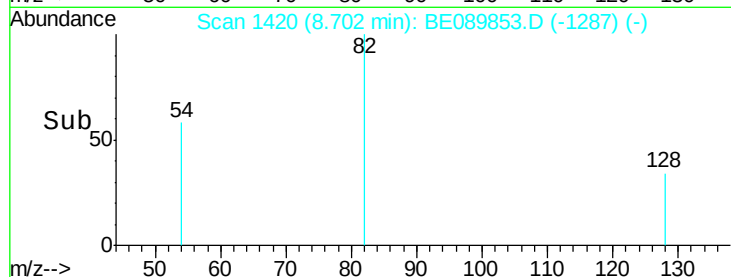
200000

100000

0

Time-->

8.65 8.70 8.75



#6

Naphthalene

Concen: 4.45 ng

RT: 10.34 min Scan# 1884

Delta R.T. 0.04 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

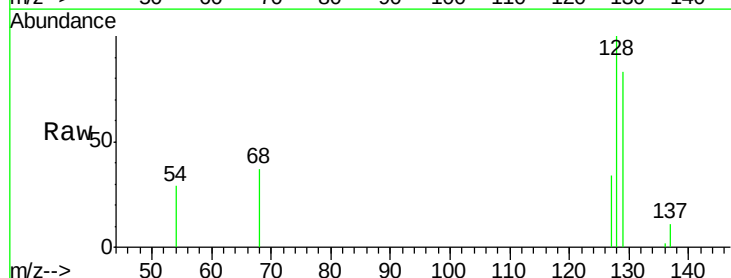
Tgt Ion: 128 Resp: 648654

Ion Ratio Lower Upper

128 100

129 82.7 10.0 15.0#

127 34.1 12.5 18.7#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.34

300000

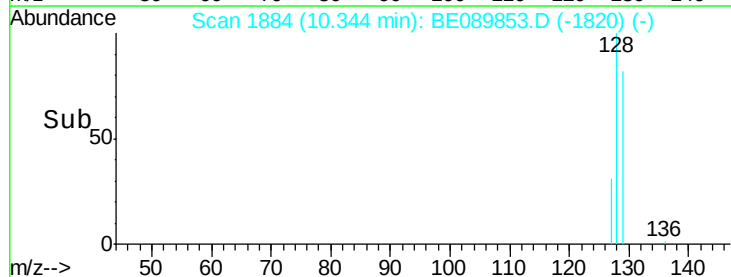
200000

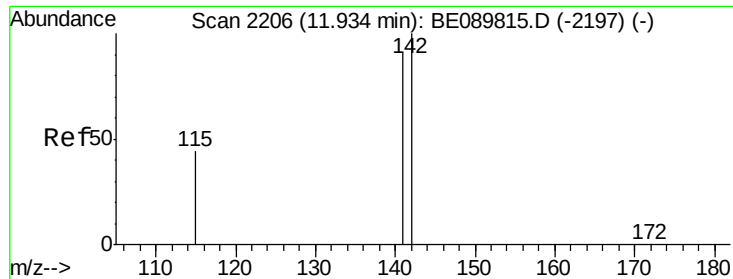
100000

0

Time-->

10.30 10.35





#7

2-Methylnaphthalene

Concen: 53.35 ng

RT: 12.01 min Scan# 2222

Delta R.T. 0.07 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

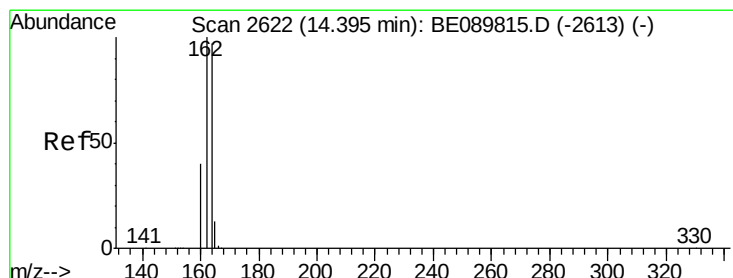
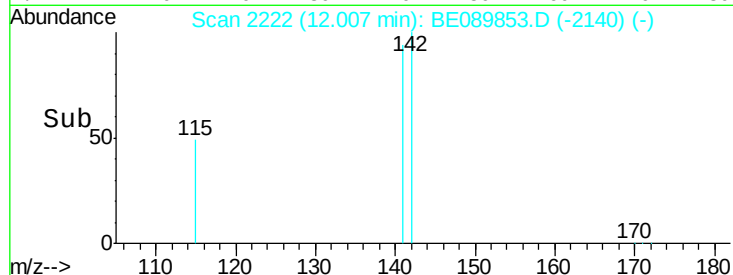
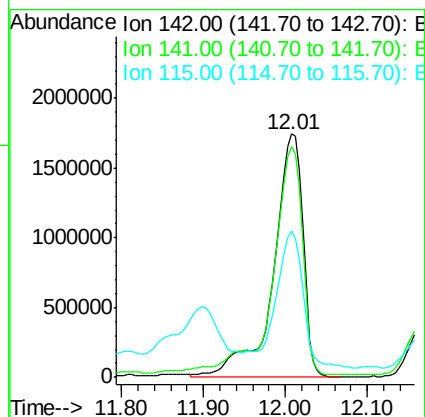
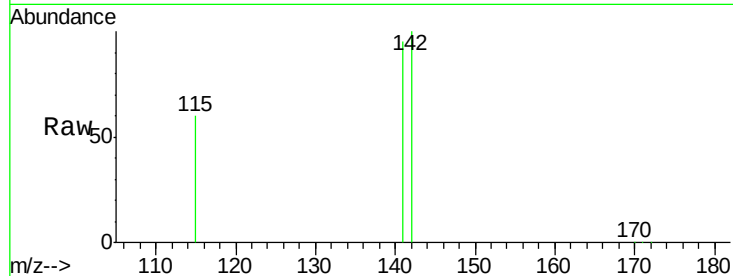
Tgt Ion:142 Resp: 4321476

Ion Ratio Lower Upper

142 100

141 94.7 72.8 109.2

115 59.9 32.9 49.3#



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.48 min Scan# 2630

Delta R.T. 0.10 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

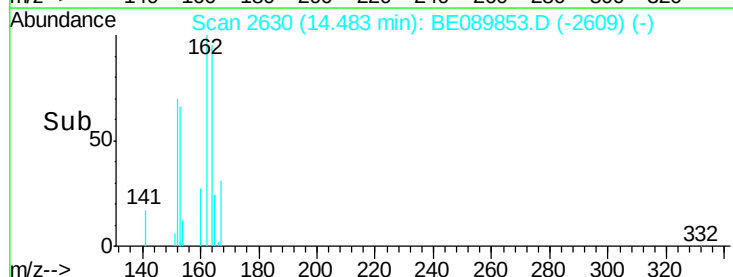
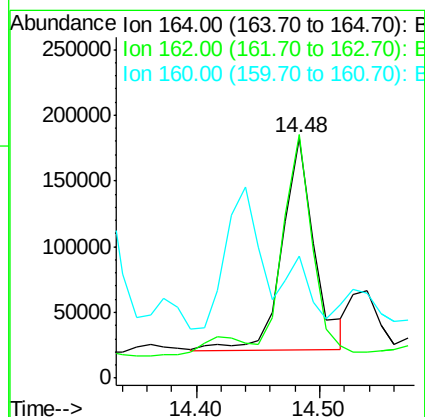
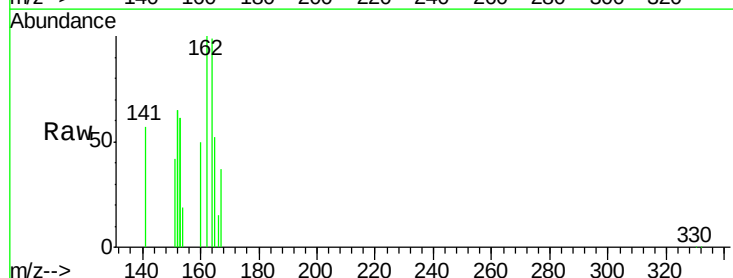
Tgt Ion:164 Resp: 289034

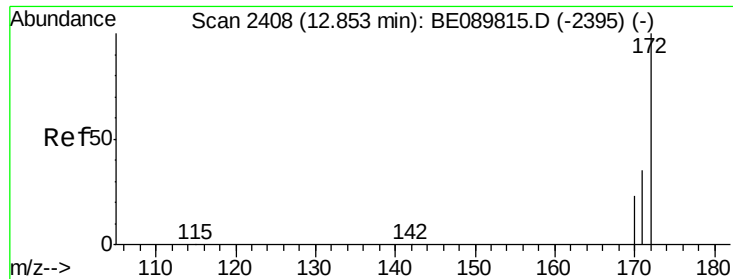
Ion Ratio Lower Upper

164 100

162 101.4 87.6 131.4

160 50.9 36.7 55.1





#9

2-Fluorobiphenyl

Concen: 8.73 ng

RT: 12.91 min Scan# 2421

Delta R.T. 0.06 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

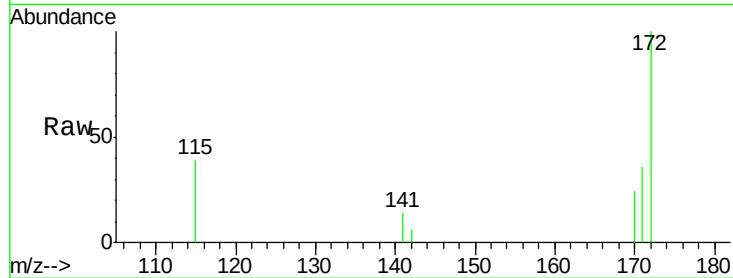
Tgt Ion:172 Resp: 590512

Ion Ratio Lower Upper

172 100

171 36.3 30.8 46.2

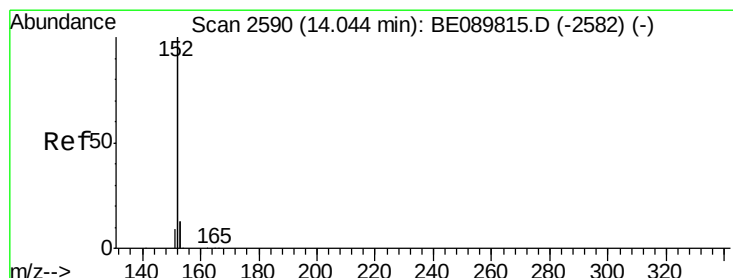
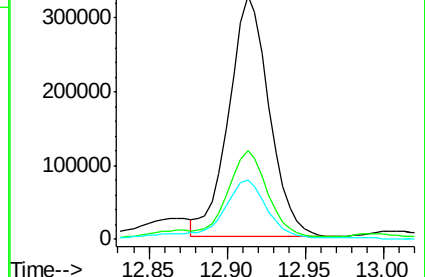
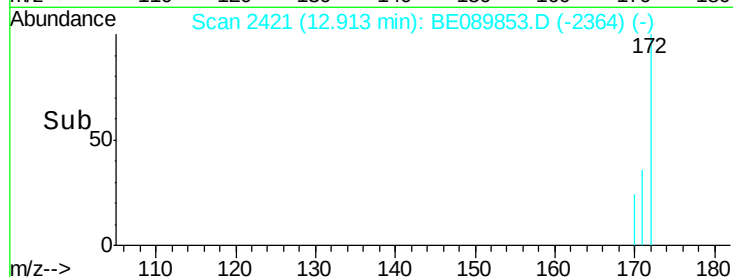
170 24.3 21.0 31.4



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



#10

Acenaphthylene

Concen: 5.94 ng

RT: 14.18 min Scan# 2602

Delta R.T. 0.13 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

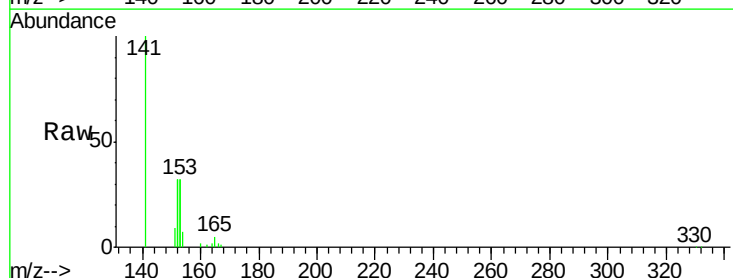
Tgt Ion:152 Resp: 2456588

Ion Ratio Lower Upper

152 100

151 11.4 3.9 5.9#

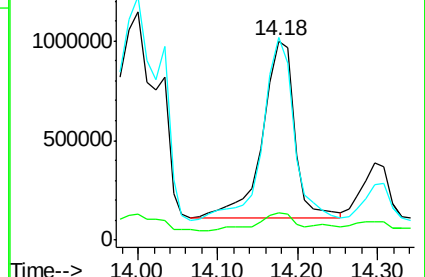
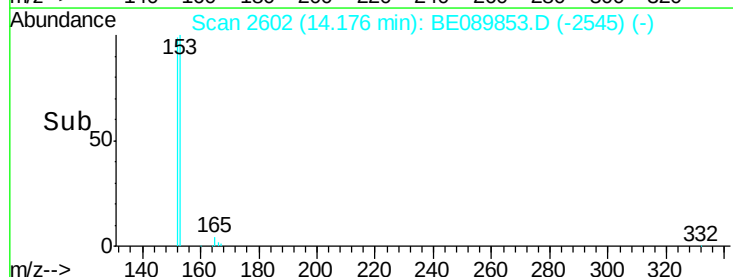
153 101.1 11.0 16.4#

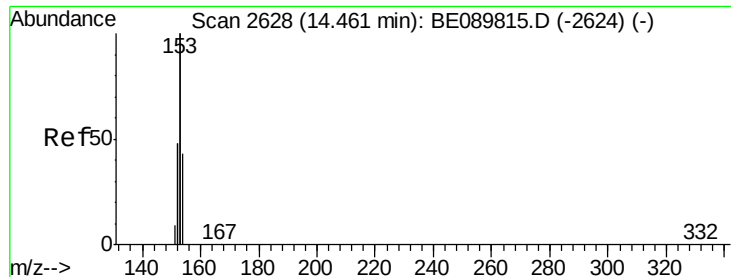


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 14.06 ng

RT: 14.56 min Scan# 2637

Delta R.T. 0.10 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

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MW-2

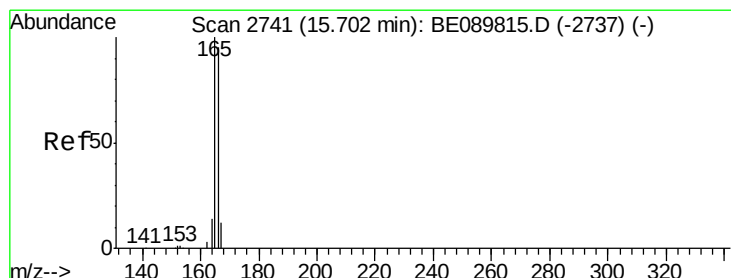
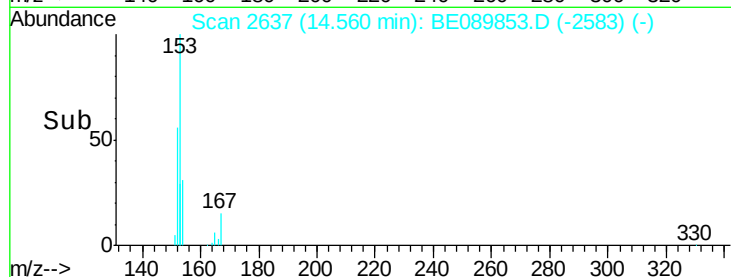
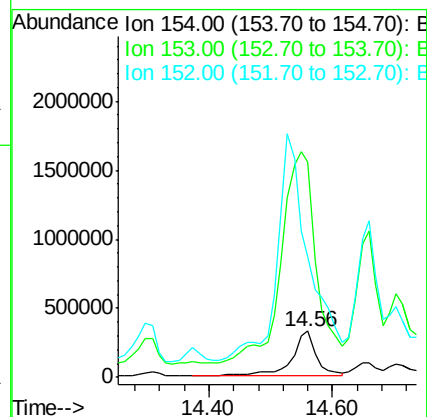
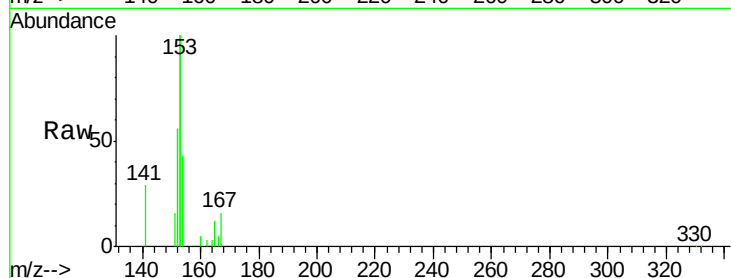
Tgt Ion:154 Resp: 889929

Ion Ratio Lower Upper

154 100

153 675.9 401.5 602.3#

152 0.0 198.6 298.0#



#12

Fluorene

Concen: 31.41 ng

RT: 15.81 min Scan# 2751

Delta R.T. 0.10 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

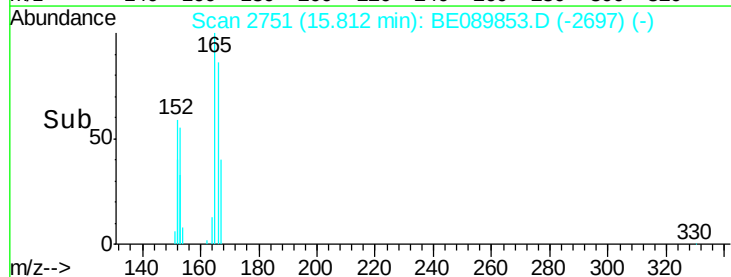
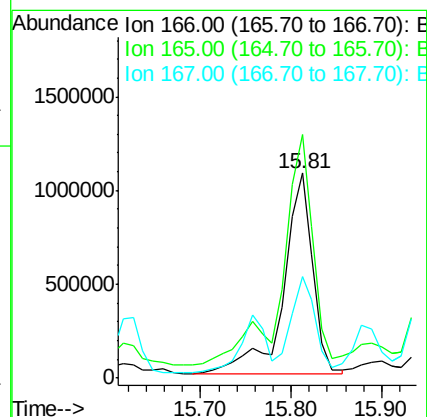
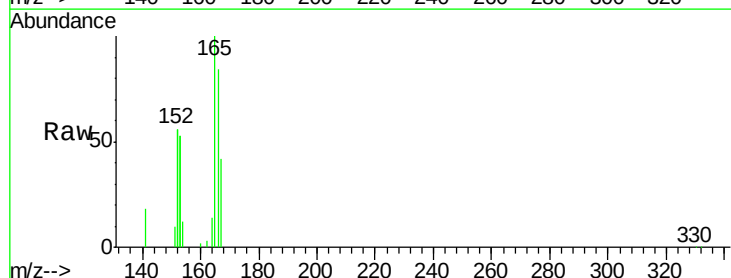
Tgt Ion:166 Resp: 2411832

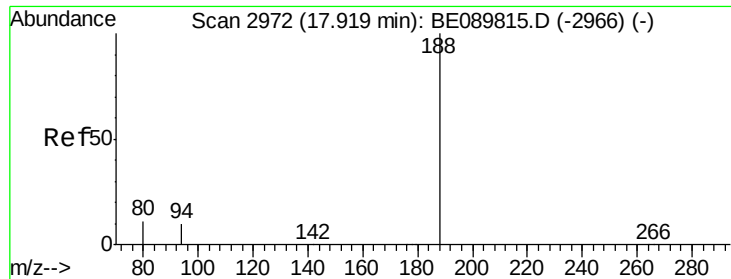
Ion Ratio Lower Upper

166 100

165 122.7 85.1 127.7

167 35.3 12.2 18.4#





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 18.01 min Scan# 2982

Delta R.T. 0.09 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

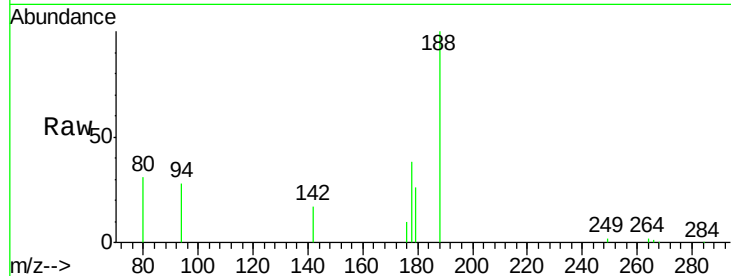
Tgt Ion:188 Resp: 480608

Ion Ratio Lower Upper

188 100

94 28.2 8.5 12.7#

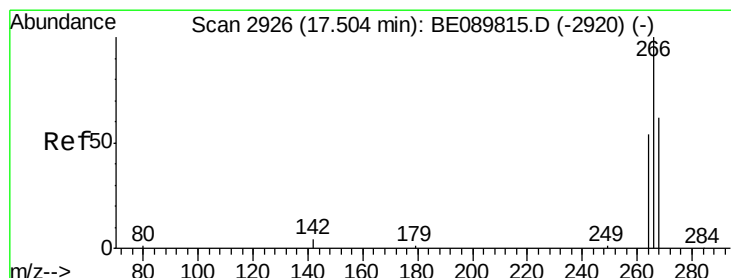
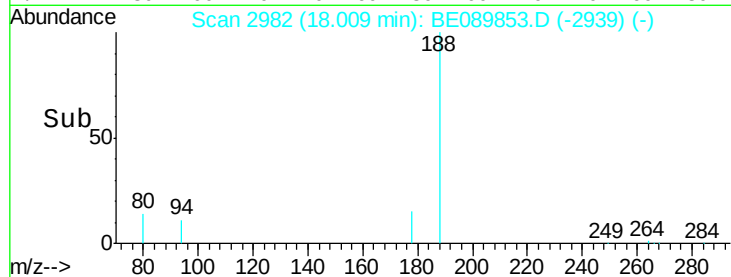
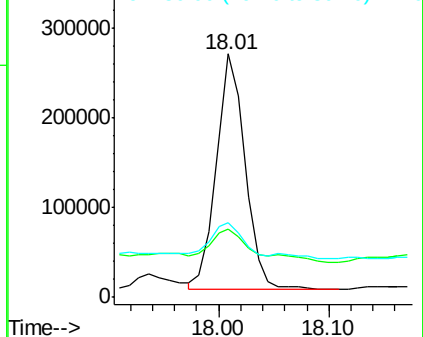
80 30.8 10.0 15.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#15

Pentachlorophenol

Concen: 0.54 ng

RT: 17.57 min Scan# 2933

Delta R.T. 0.06 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

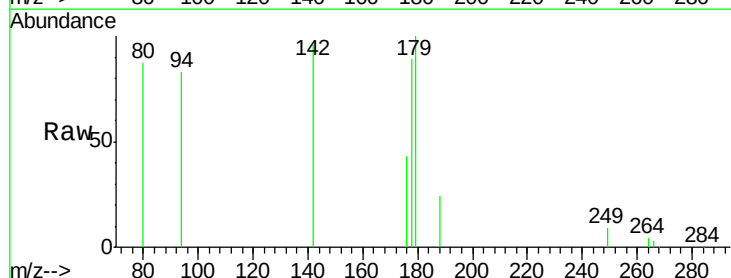
Tgt Ion:266 Resp: 2691

Ion Ratio Lower Upper

266 100

268 16.8 51.6 77.4#

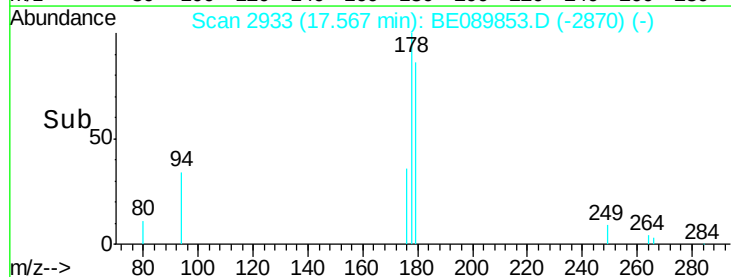
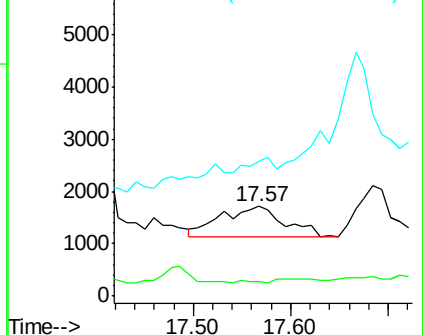
264 151.3 50.2 75.2#

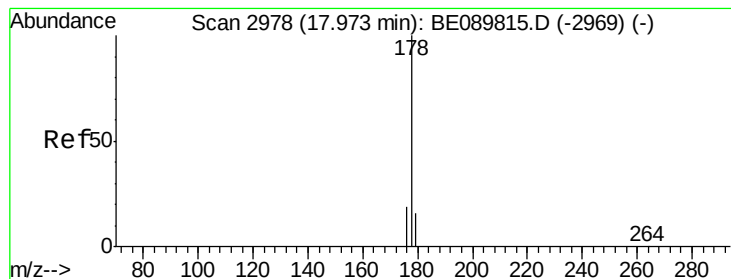


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 49.43 ng

RT: 18.08 min Scan# 2990

Delta R.T. 0.11 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

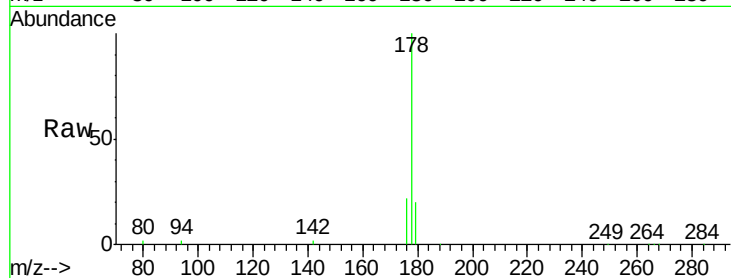
Tgt Ion:178 Resp: 5222009

Ion Ratio Lower Upper

178 100

176 20.8 15.4 23.0

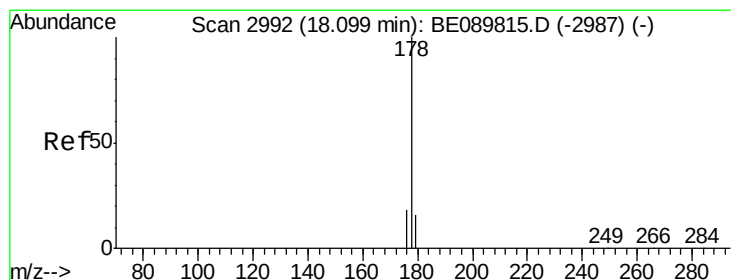
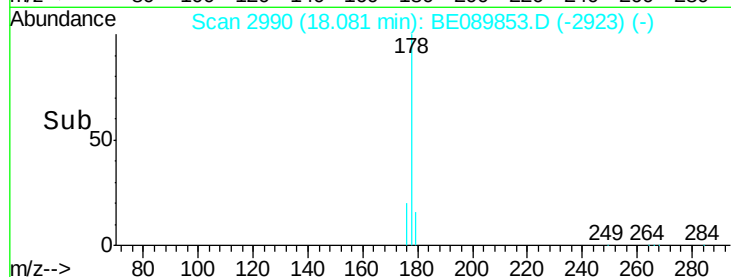
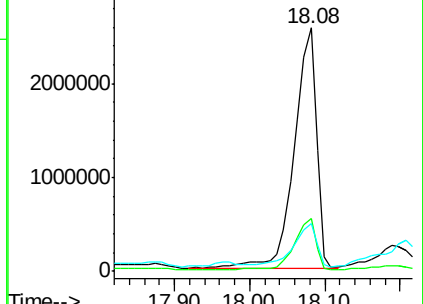
179 18.6 12.2 18.4#



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



#17

Anthracene

Concen: 8.18 ng

RT: 18.19 min Scan# 3002

Delta R.T. 0.09 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

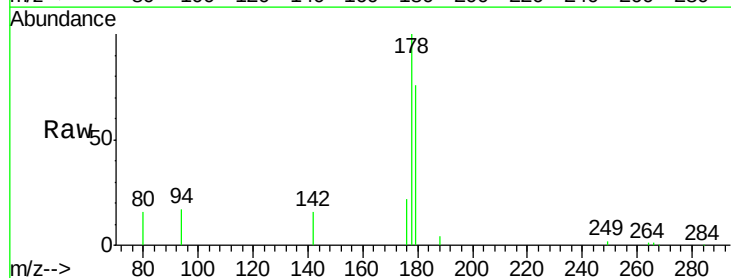
Tgt Ion:178 Resp: 772304

Ion Ratio Lower Upper

178 100

176 21.6 14.6 21.8

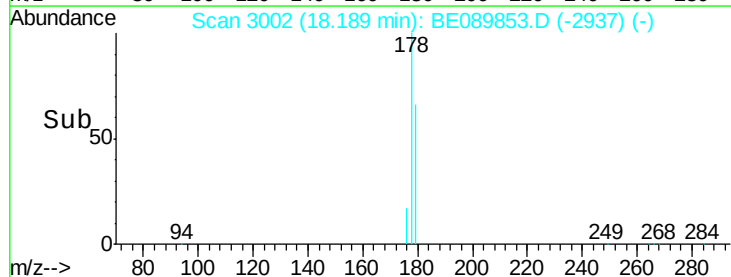
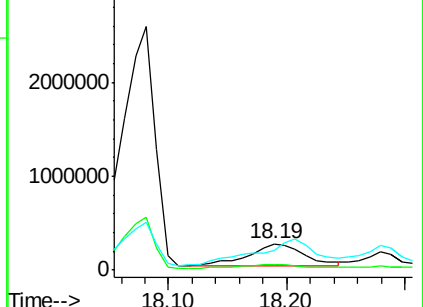
179 125.7 12.1 18.1#

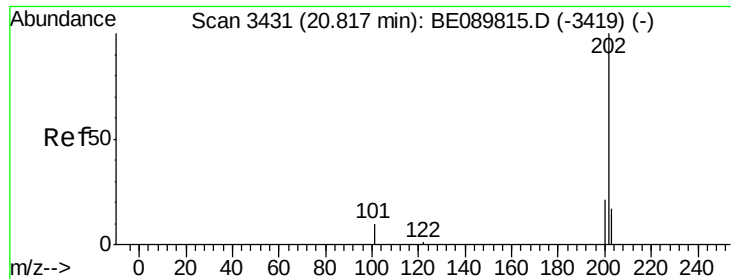


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

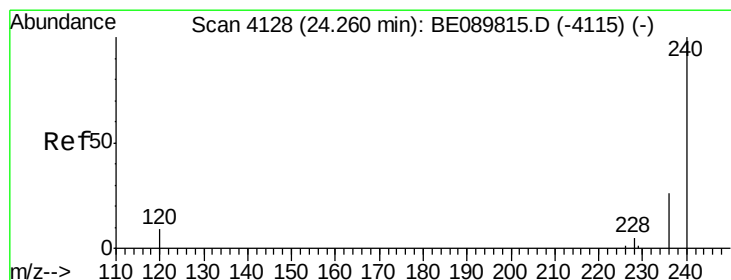
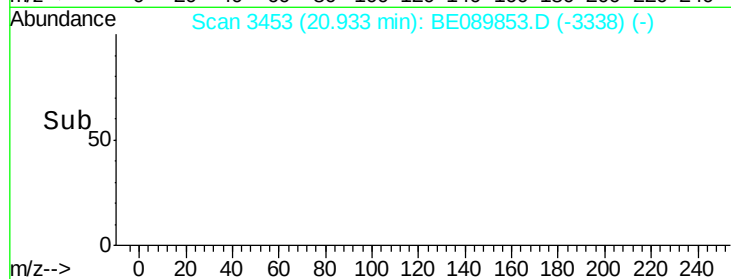
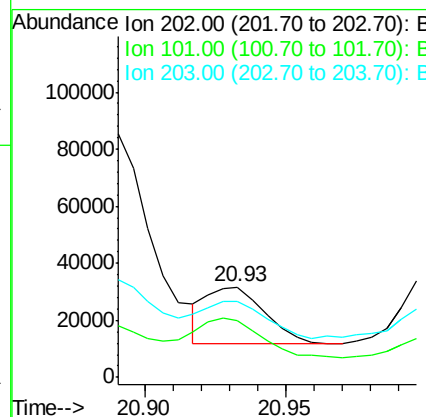
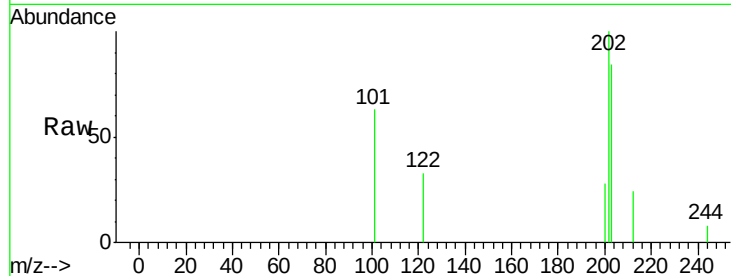




#18
Fluoranthene
Concen: 0.30 ng
RT: 20.93 min Scan# 3453
Delta R.T. 0.11 min
Lab File: BE089853.D
Acq: 26 Mar 2015 1:31

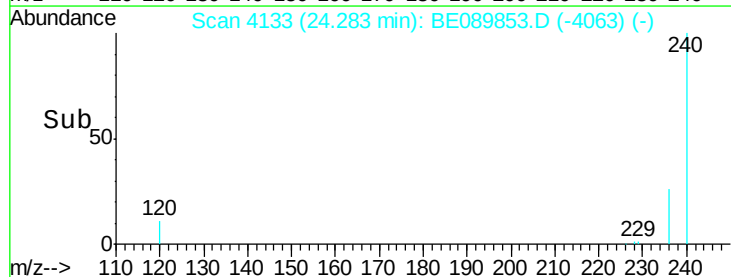
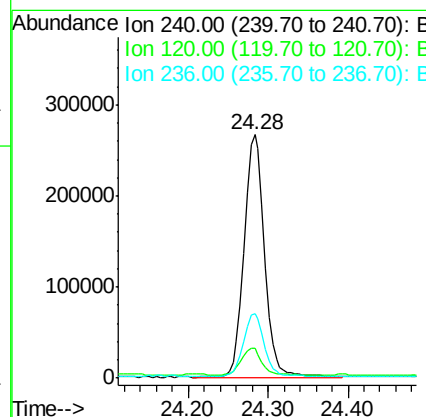
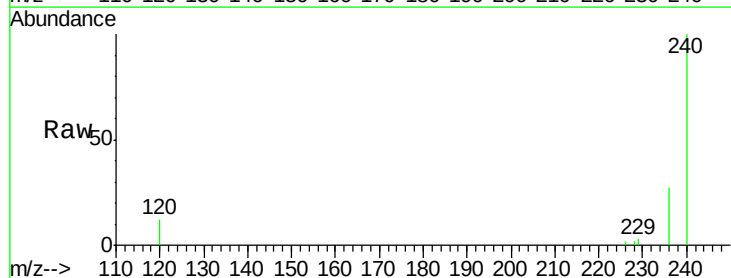
Instrument :
BNA_E
ClientSampled :
MW-2

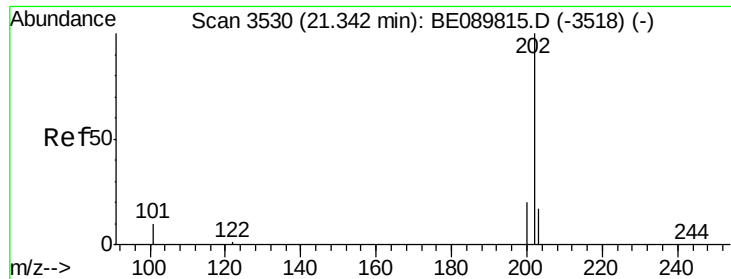
Tgt Ion: 202 Resp: 28495
Ion Ratio Lower Upper
202 100
101 82.8 8.2 12.2#
203 73.9 14.2 21.4#



#19
Chrysene-d12
Concen: 5.00 ng
RT: 24.28 min Scan# 4133
Delta R.T. 0.02 min
Lab File: BE089853.D
Acq: 26 Mar 2015 1:31

Tgt Ion: 240 Resp: 474055
Ion Ratio Lower Upper
240 100
120 12.0 7.5 11.3#
236 26.7 20.5 30.7

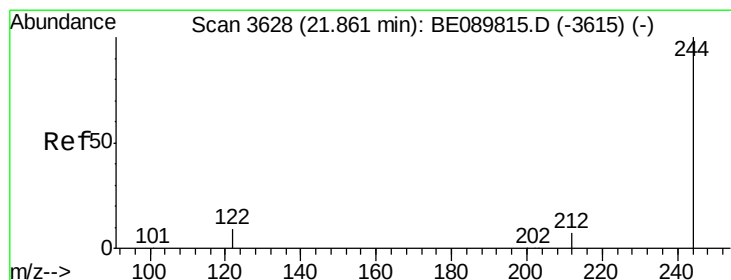
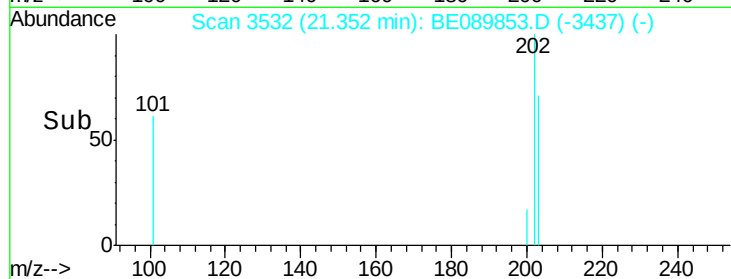
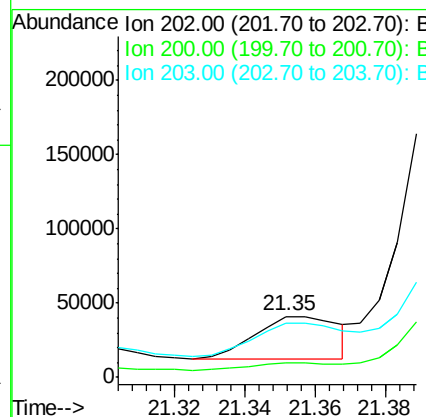
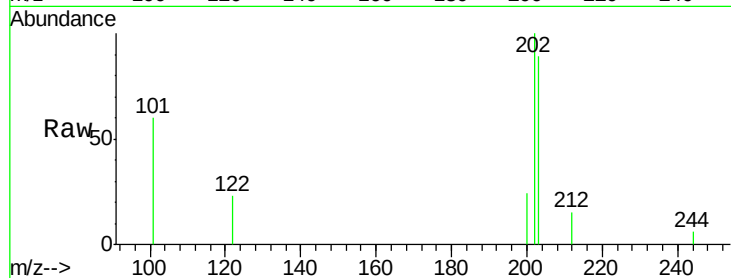




#20
Pyrene
Concen: 0.39 ng
RT: 21.35 min Scan# 3532
Delta R.T. 0.00 min
Lab File: BE089853.D
Acq: 26 Mar 2015 1:31

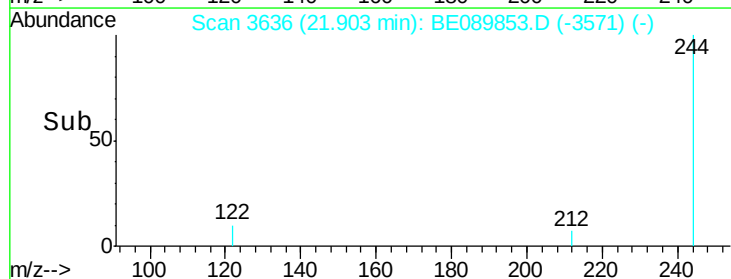
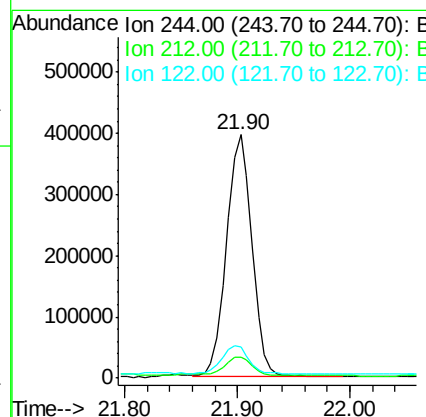
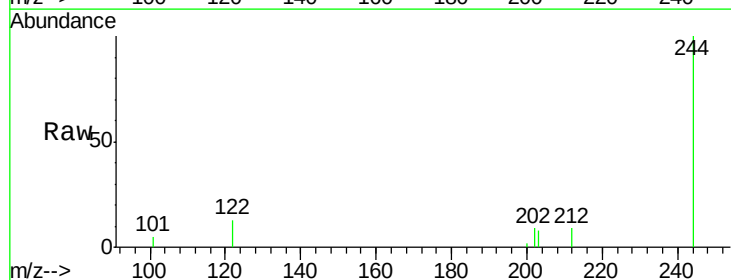
Instrument :
BNA_E
ClientSampled :
MW-2

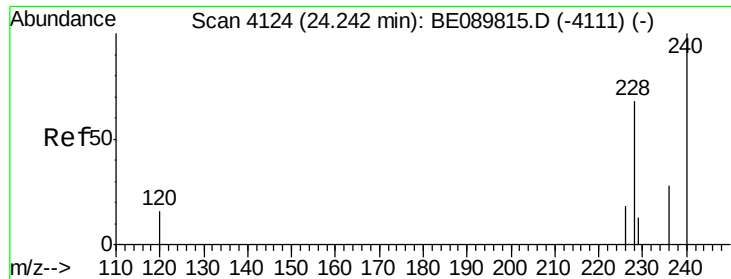
Tgt Ion: 202 Resp: 46886
Ion Ratio Lower Upper
202 100
200 14.8 15.9 23.9#
203 88.7 13.6 20.4#



#21
Terphenyl-d14
Concen: 8.86 ng
RT: 21.90 min Scan# 3636
Delta R.T. 0.04 min
Lab File: BE089853.D
Acq: 26 Mar 2015 1:31

Tgt Ion: 244 Resp: 619608
Ion Ratio Lower Upper
244 100
212 8.7 7.3 10.9
122 12.6 10.5 15.7





#22

Benzo(a)anthracene

Concen: 0.15 ng

RT: 24.26 min Scan# 4128

Delta R.T. 0.01 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampled :

MW-2

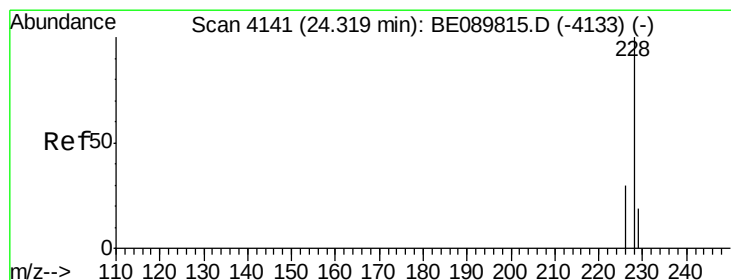
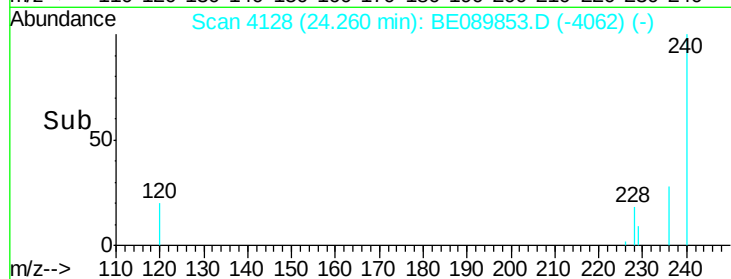
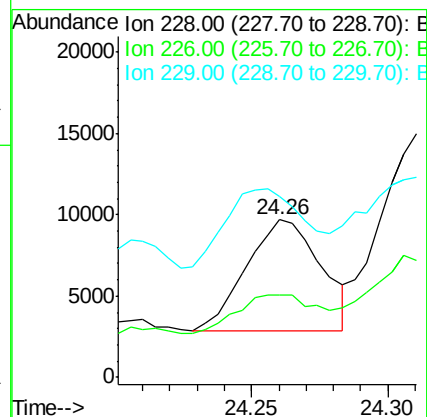
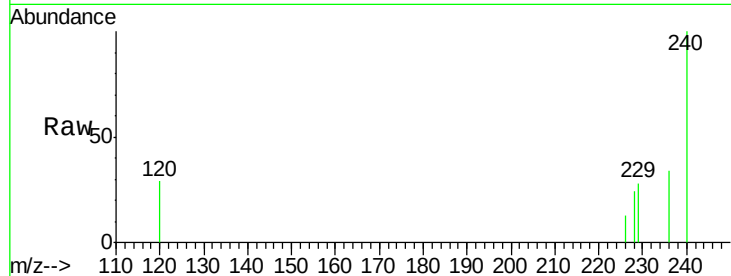
Tgt Ion:228 Resp: 13025

Ion Ratio Lower Upper

228 100

226 52.5 19.8 29.8#

229 115.2 16.3 24.5#



#23

Chrysene

Concen: 0.26 ng

RT: 24.34 min Scan# 4145

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

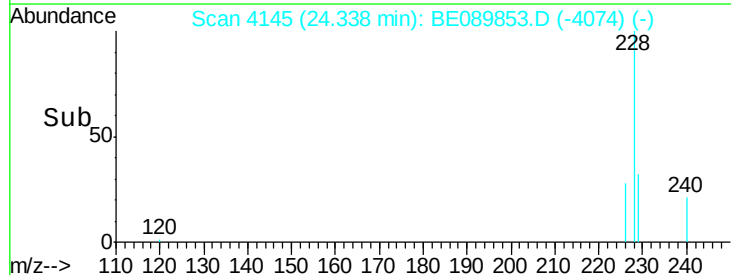
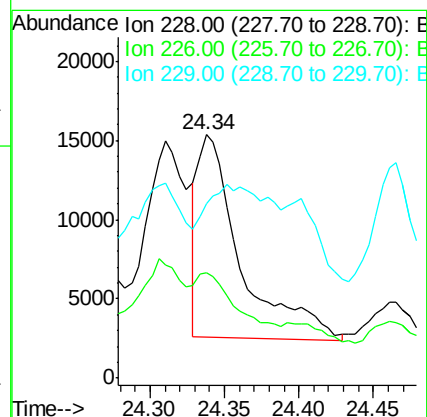
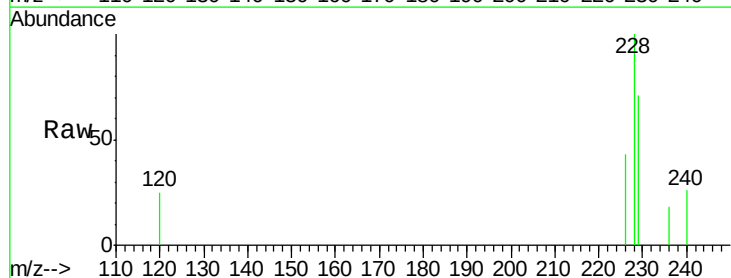
Tgt Ion:228 Resp: 25285

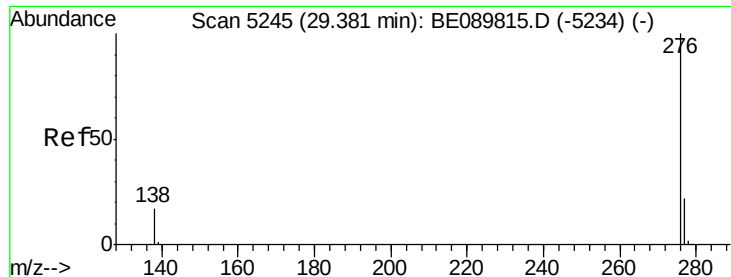
Ion Ratio Lower Upper

228 100

226 43.1 23.0 34.4#

229 71.5 15.8 23.6#





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.42 ng

RT: 29.41 min Scan# 5251

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

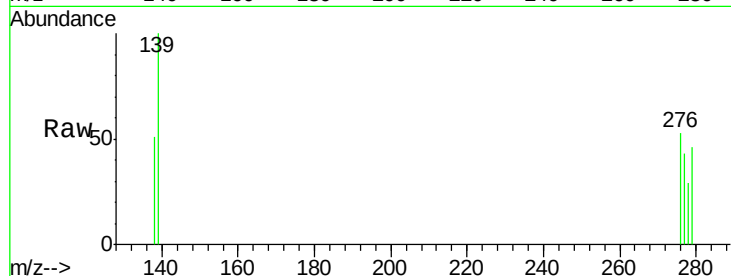
Tgt Ion:276 Resp: 178

Ion Ratio Lower Upper

276 100

138 46.1 4.3 6.5#

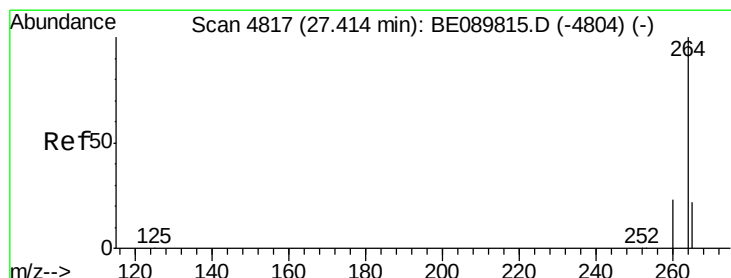
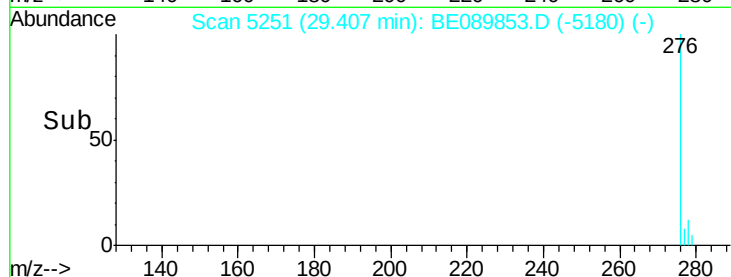
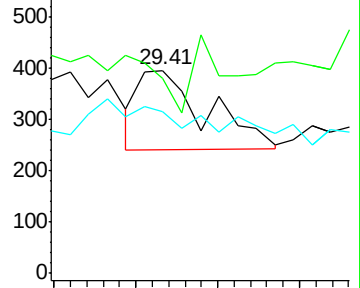
277 0.0 9.0 13.4#



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



#25

Perylene-d12

Concen: 5.00 ng

RT: 27.42 min Scan# 4819

Delta R.T. 0.01 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

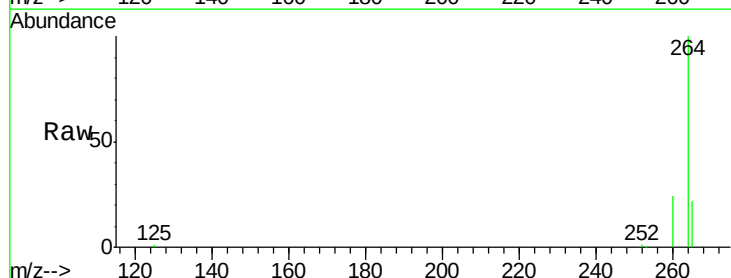
Tgt Ion:264 Resp: 450042

Ion Ratio Lower Upper

264 100

260 23.8 18.2 27.2

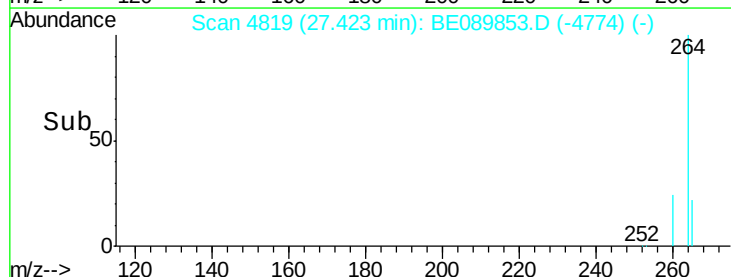
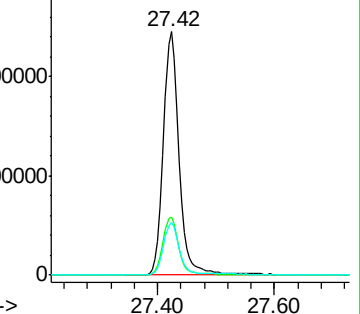
265 21.8 17.3 25.9

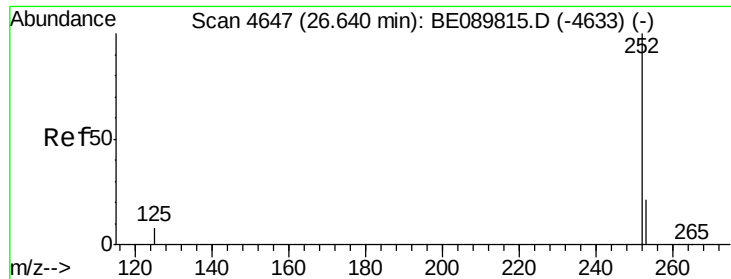


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#26

Benzo(b)fluoranthene

Concen: 0.33 ng

RT: 26.65 min Scan# 4650

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

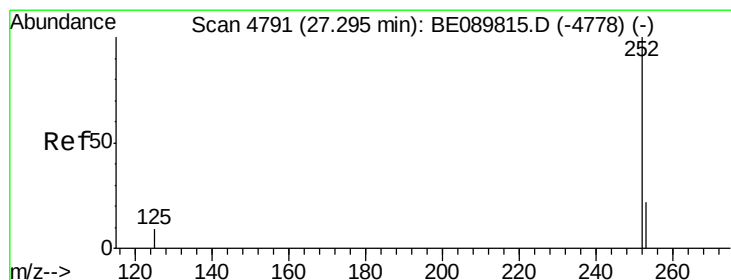
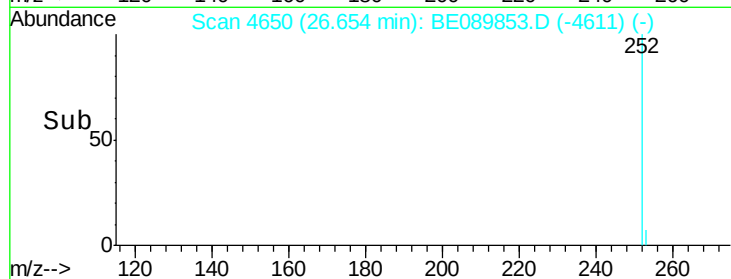
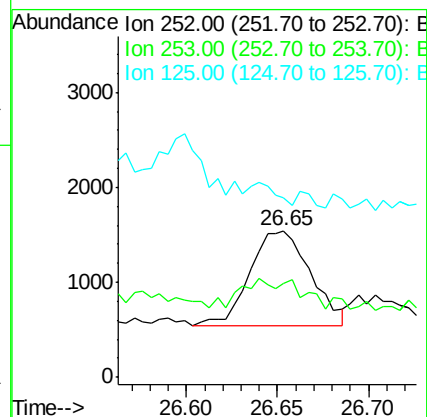
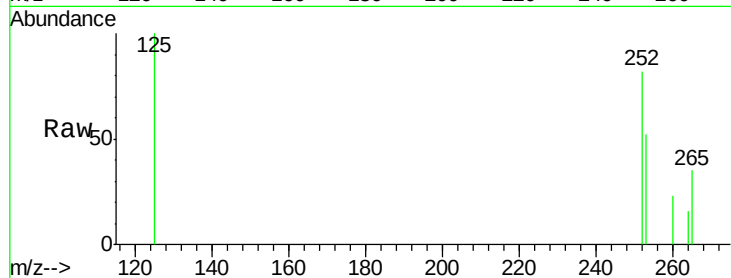
Tgt Ion:252 Resp: 2291

Ion Ratio Lower Upper

252 100

253 63.9 17.8 26.6#

125 122.4 8.7 13.1#



#28

Benzo(a)pyrene

Concen: 0.31 ng

RT: 27.30 min Scan# 4793

Delta R.T. 0.00 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

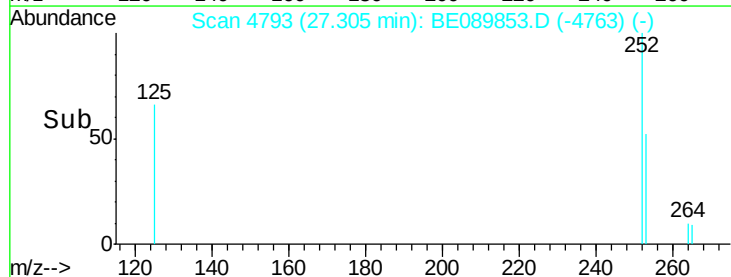
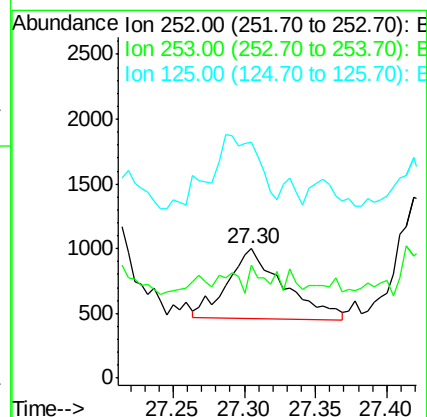
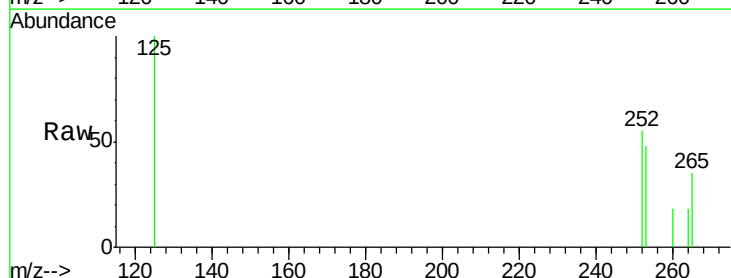
Tgt Ion:252 Resp: 1460

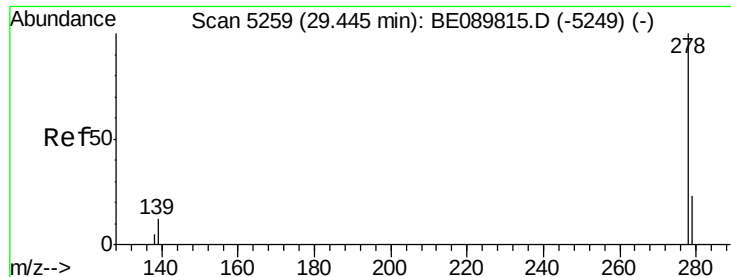
Ion Ratio Lower Upper

252 100

253 86.9 21.0 31.4#

125 181.8 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 29.45 min Scan# 5261

Delta R.T. 0.01 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA_E

ClientSampleId :

MW-2

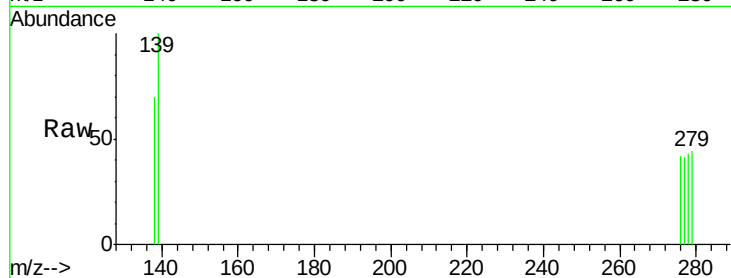
Tgt Ion: 278 Resp: 31

Ion Ratio Lower Upper

278 100

139 234.0 20.0 30.0#

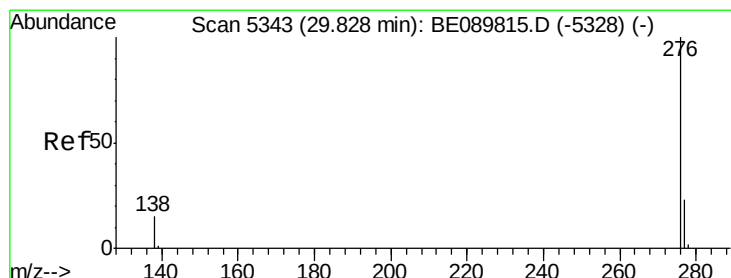
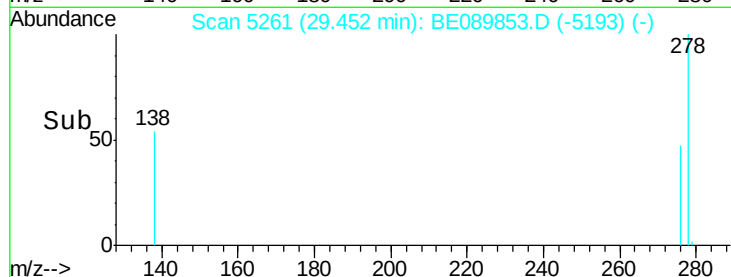
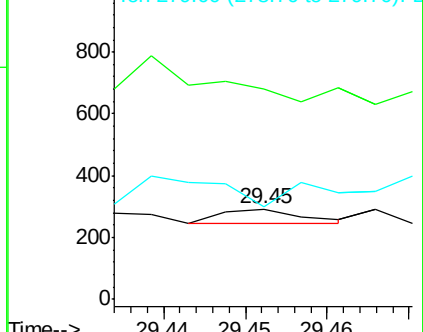
279 103.4 28.9 43.3#



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



#30

Benzo(g,h,i)perylene

Concen: 0.26 ng

RT: 29.83 min Scan# 5345

Delta R.T. 0.01 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

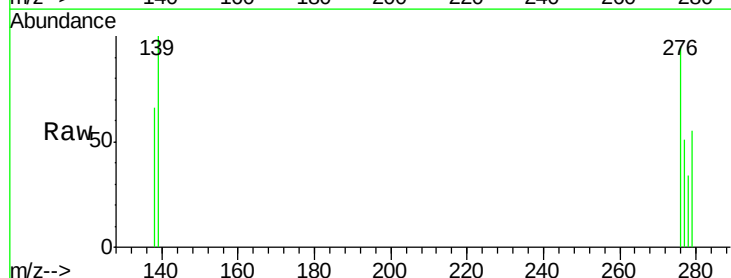
Tgt Ion: 276 Resp: 906

Ion Ratio Lower Upper

276 100

277 54.4 19.2 28.8#

138 69.5 22.9 34.3#



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

