

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089832.D
 Acq On : 25 Mar 2015 4:56
 Operator : TP/JJ
 Sample : G1575-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-11

Quant Time: Mar 25 17:05:59 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	7.50	152	202126	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	813892	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	366601	5.00	ng	0.01
13) Phenanthrene-d10	17.93	188	641845	5.00	ng	0.00
19) Chrysene-d12	24.26	240	621786	5.00	ng	0.00
25) Perylene-d12	27.42	264	592587	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	365205	6.22	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	628381	7.32	ng	0.00
21) Terphenyl-d14	21.87	244	726207	7.92	ng	0.00

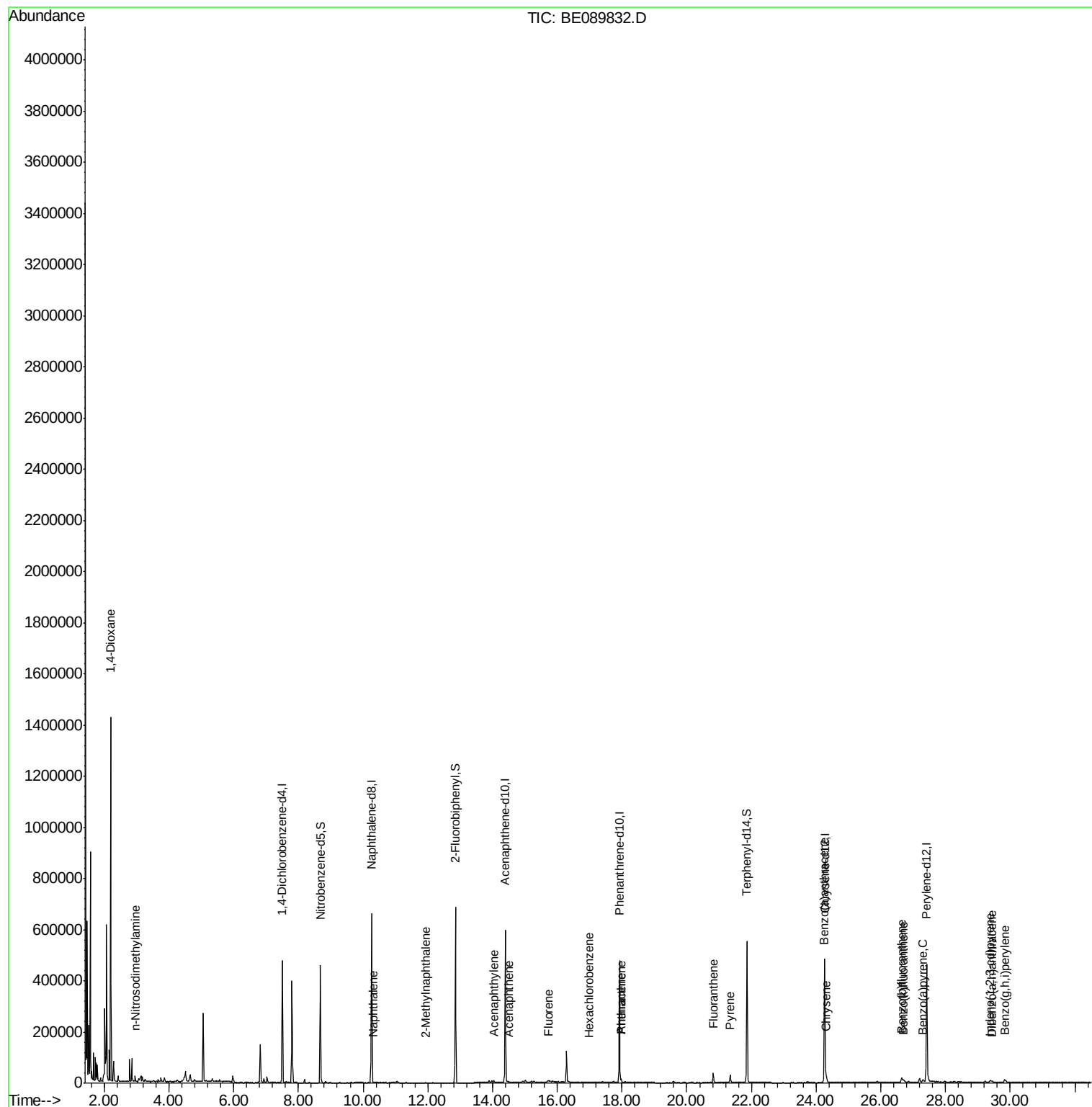
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.20	88	38771	1.49	ng	# 1
3) n-Nitrosodimethylamine	2.95	42	2293	0.06	ng	# 19
6) Naphthalene	10.31	128	2525	0.02	ng	# 89
7) 2-Methylnaphthalene	11.93	142	1262	0.01	ng	# 90
10) Acenaphthylene	14.04	152	13286	0.03	ng	# 99
11) Acenaphthene	14.49	154	1351	0.02	ng	# 1
12) Fluorene	15.71	166	1715	0.02	ng	# 19
14) Hexachlorobenzene	16.99	284	71	0.00	ng	# 19
15) Pentachlorophenol	17.25	266	163	Below Cal		# 96
16) Phenanthrene	17.97	178	17529	0.12	ng	# 99
17) Anthracene	17.97	178	17529	0.14	ng	# 98
18) Fluoranthene	20.82	202	41766	0.33	ng	# 99
20) Pyrene	21.35	202	34986	0.22	ng	# 96
22) Benzo(a)anthracene	24.25	228	13810	0.12	ng	# 91
23) Chrysene	24.32	228	31006	0.24	ng	# 91
24) Indeno(1,2,3-cd)pyrene	29.39	276	14623	0.53	ng	# 79
26) Benzo(b)fluoranthene	26.64	252	33806	0.57	ng	# 83
27) Benzo(k)fluoranthene	26.70	252	13578	0.11	ng	# 57
28) Benzo(a)pyrene	27.30	252	14291	0.41	ng	# 53
29) Dibenzo(a,h)anthracene	29.44	278	2214	0.28	ng	# 12
30) Benzo(g,h,i)perylene	29.83	276	19548	0.40	ng	# 93

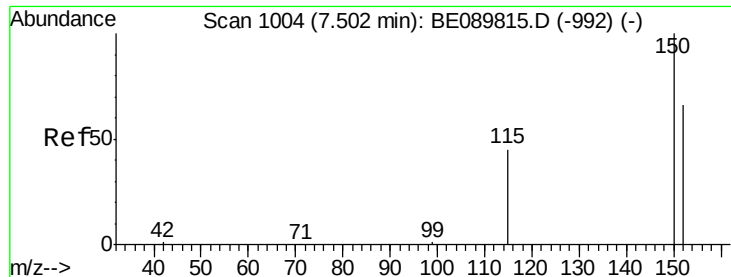
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.50 min Scan# 1004

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

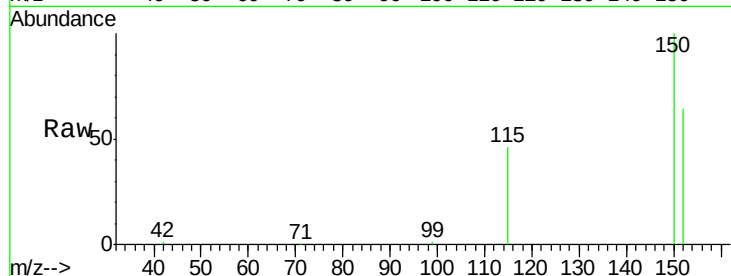
Tgt Ion:152 Resp: 202126

Ion Ratio Lower Upper

152 100

150 155.8 125.5 188.3

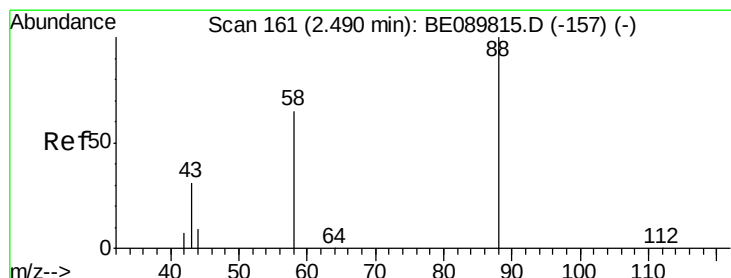
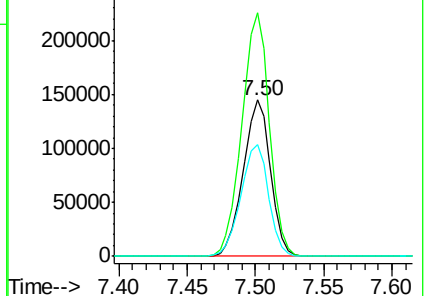
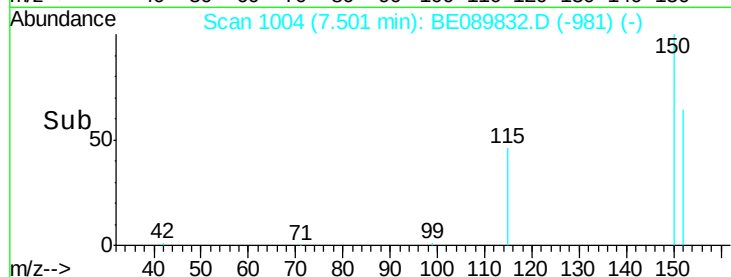
115 71.3 58.0 87.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 1.49 ng

RT: 2.20 min Scan# 118

Delta R.T. -0.32 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

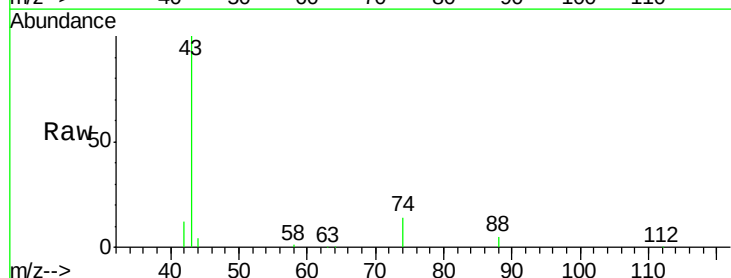
Tgt Ion: 88 Resp: 38771

Ion Ratio Lower Upper

88 100

58 30.2 48.6 72.8#

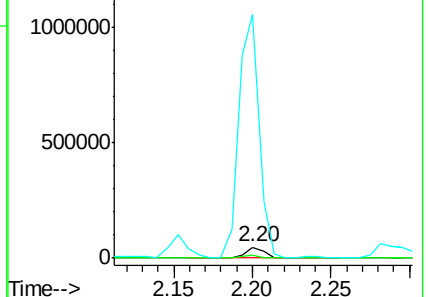
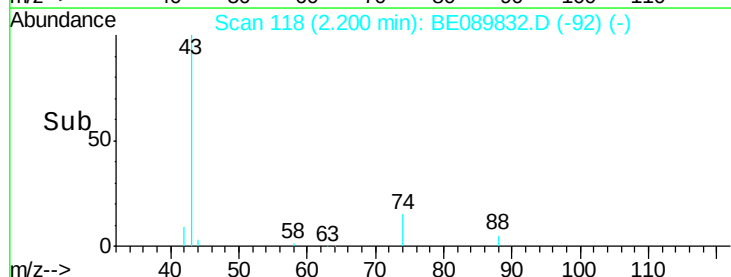
43 2432.3 28.6 43.0#

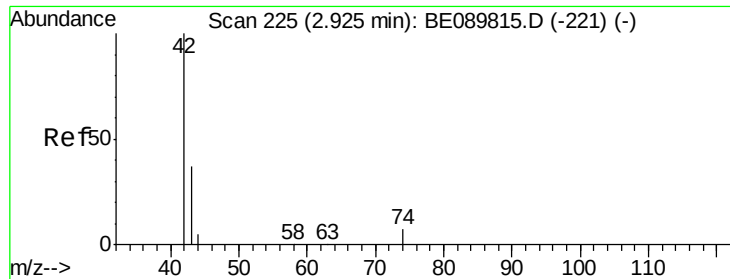


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.06 ng

RT: 2.95 min Scan# 228

Delta R.T. -0.05 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampled :

MW-11

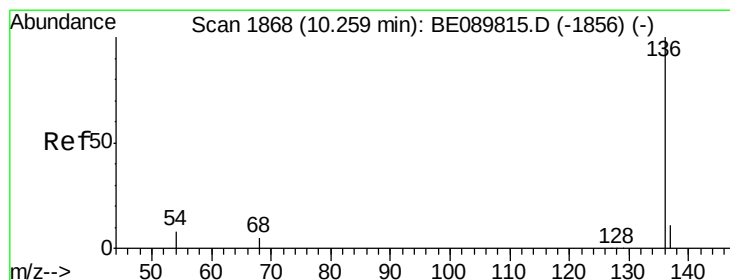
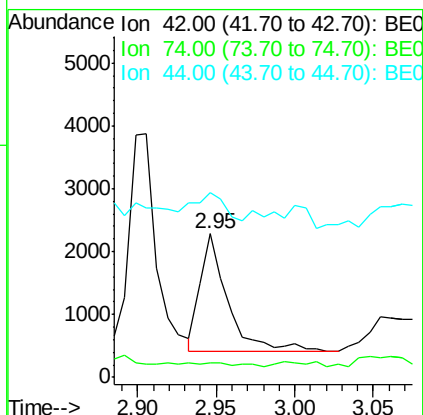
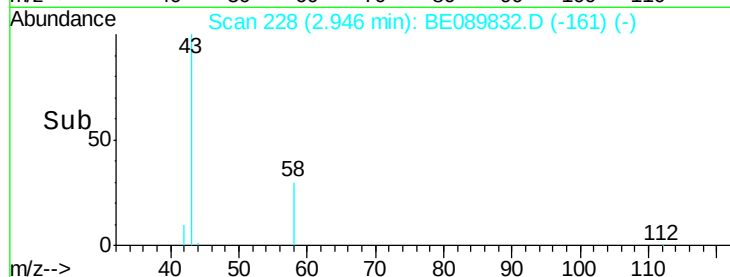
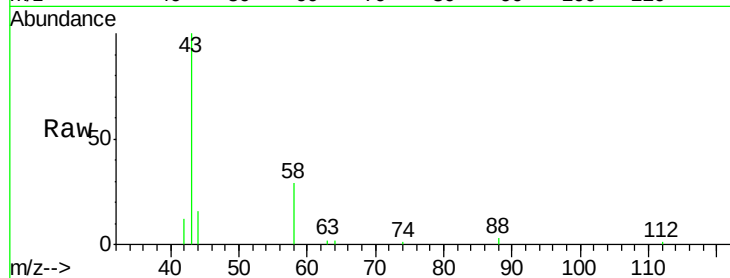
Tgt Ion: 42 Resp: 2293

Ion Ratio Lower Upper

42 100

74 7.2 68.7 103.1#

44 0.0 6.2 9.4#



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.26 min Scan# 1868

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

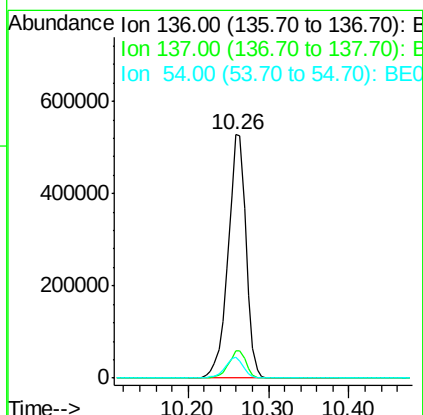
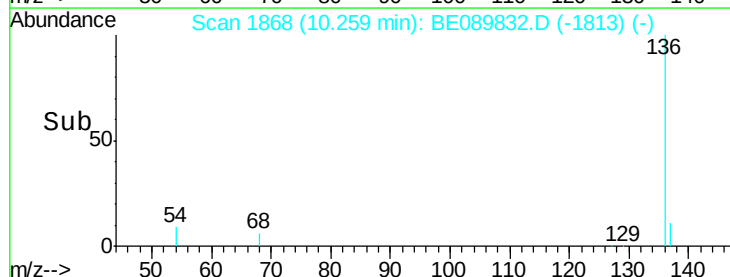
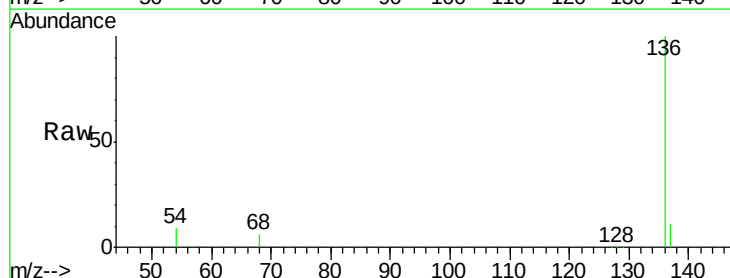
Tgt Ion: 136 Resp: 813892

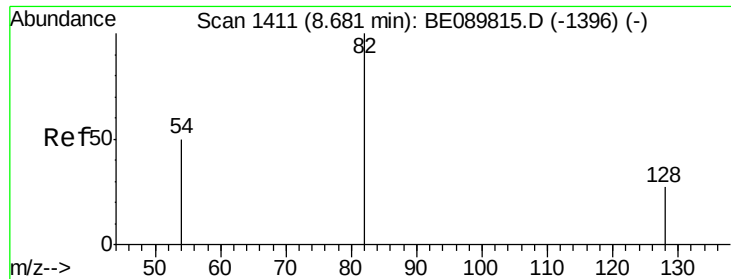
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 8.8 7.0 10.4





#5

Nitrobenzene-d5

Concen: 6.22 ng

RT: 8.68 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

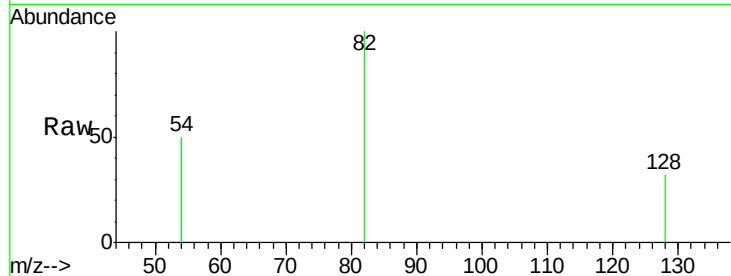
Tgt Ion: 82 Resp: 365205

Ion Ratio Lower Upper

82 100

128 31.6 24.6 37.0

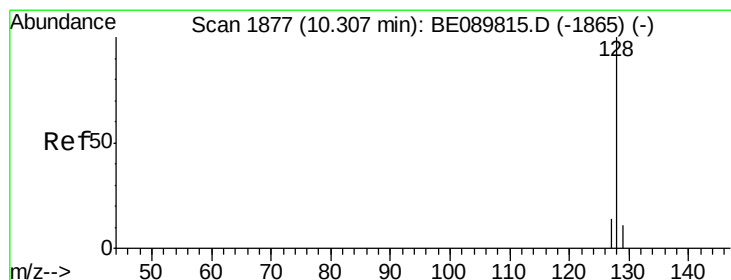
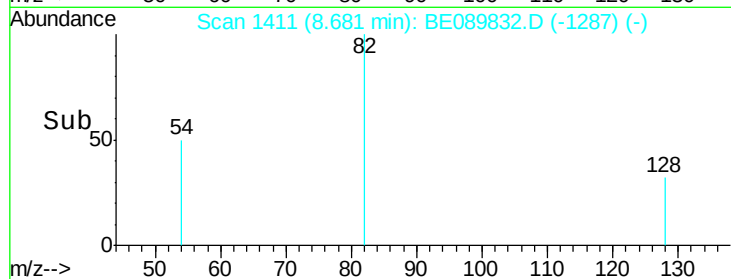
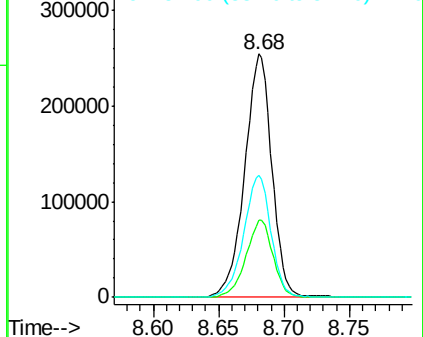
54 50.2 43.0 64.6



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



#6

Naphthalene

Concen: 0.02 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

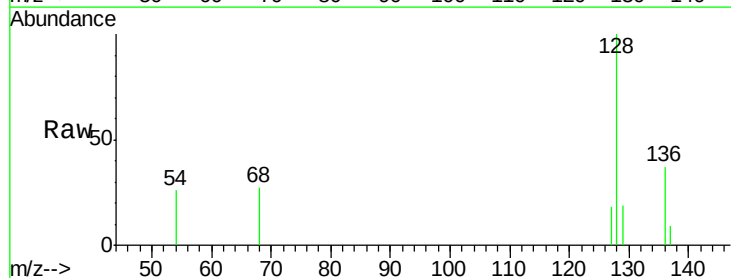
Tgt Ion: 128 Resp: 2525

Ion Ratio Lower Upper

128 100

129 19.3 10.0 15.0#

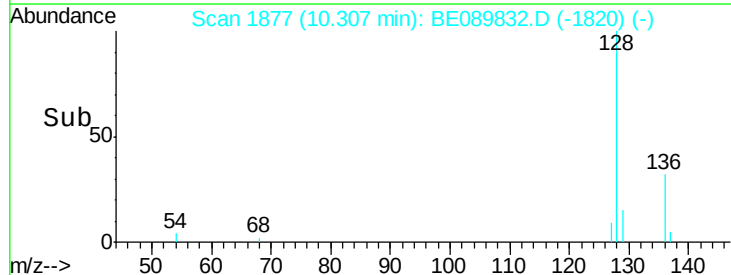
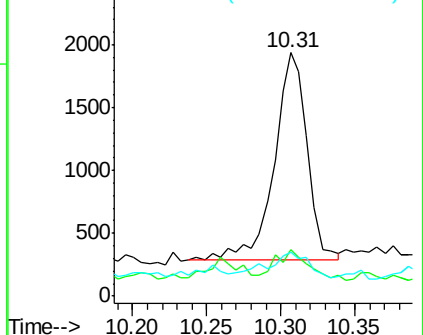
127 18.2 12.5 18.7

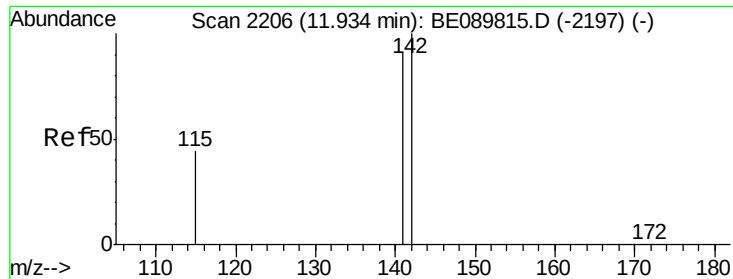


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.01 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

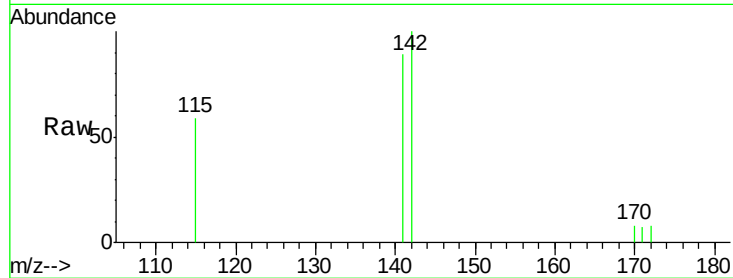
Tgt Ion:142 Resp: 1262

Ion Ratio Lower Upper

142 100

141 89.0 72.8 109.2

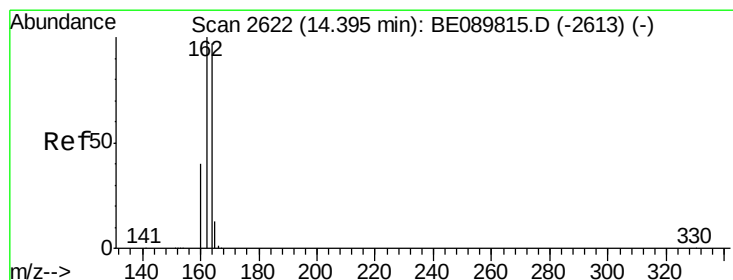
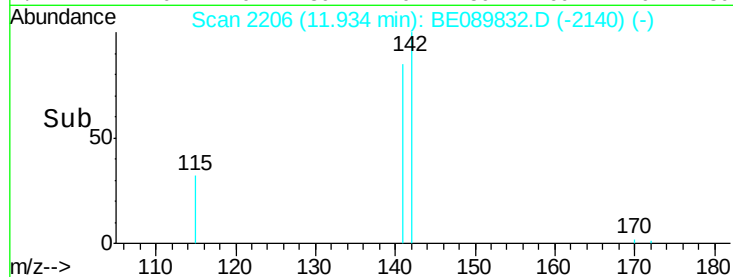
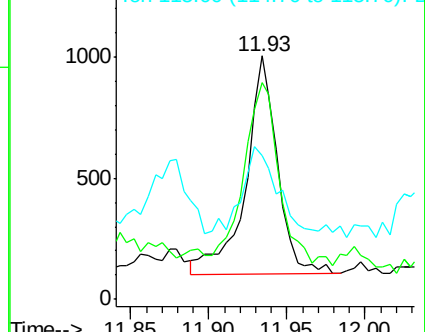
115 59.2 32.9 49.3#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

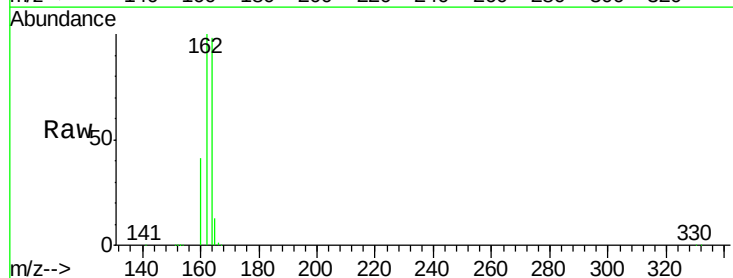
Tgt Ion:164 Resp: 366601

Ion Ratio Lower Upper

164 100

162 102.0 87.6 131.4

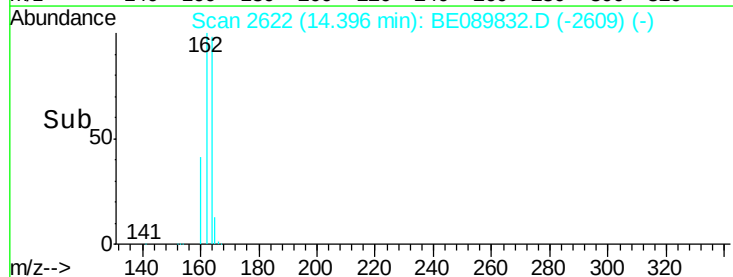
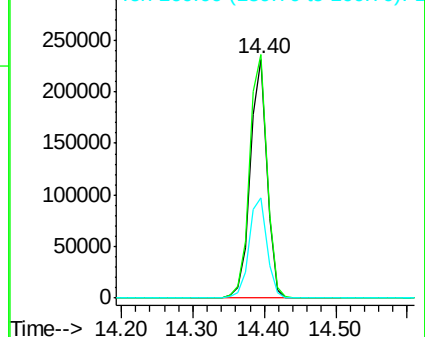
160 41.8 36.7 55.1

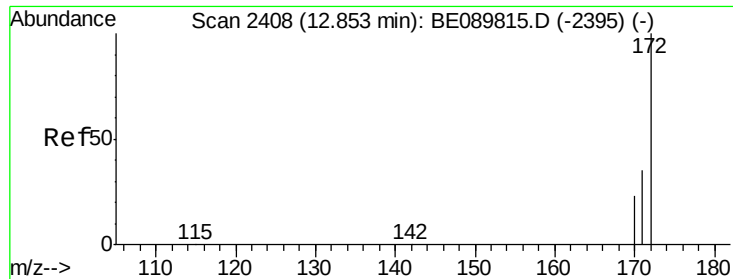


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 7.32 ng

RT: 12.85 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampled :

MW-11

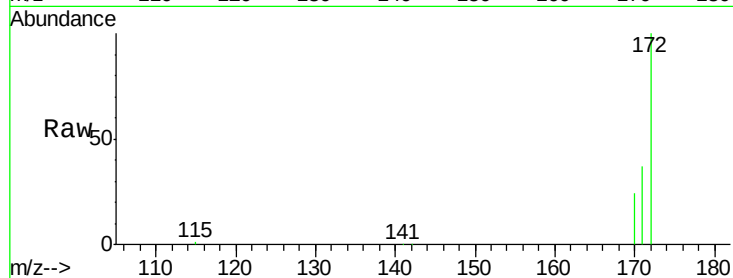
Tgt Ion:172 Resp: 628381

Ion Ratio Lower Upper

172 100

171 36.7 30.8 46.2

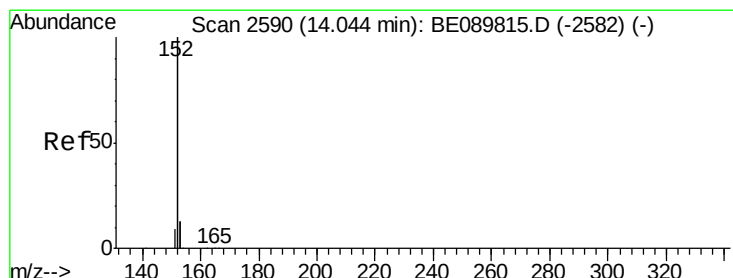
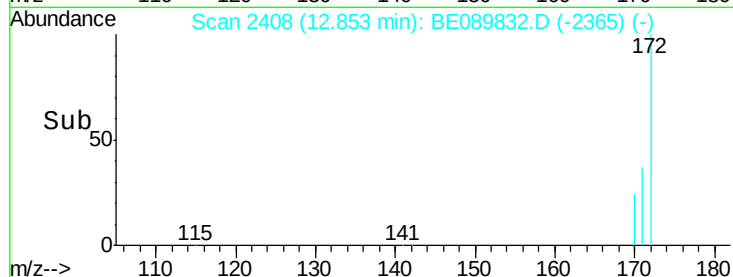
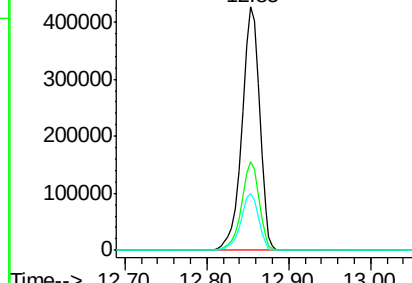
170 23.5 21.0 31.4



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: 0.03 ng

RT: 14.04 min Scan# 2590

Delta R.T. -0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

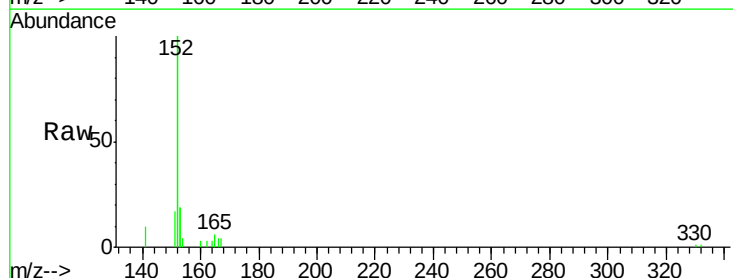
Tgt Ion:152 Resp: 13286

Ion Ratio Lower Upper

152 100

151 5.7 3.9 5.9

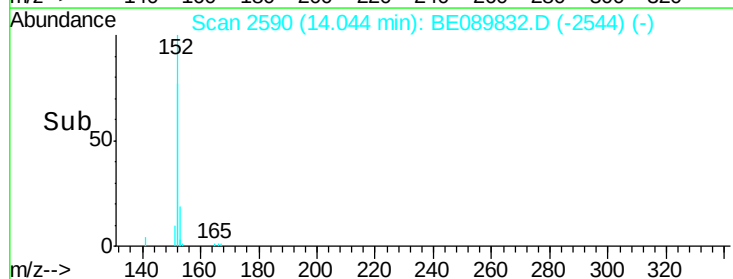
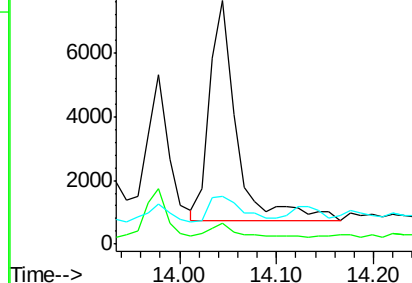
153 13.4 11.0 16.4

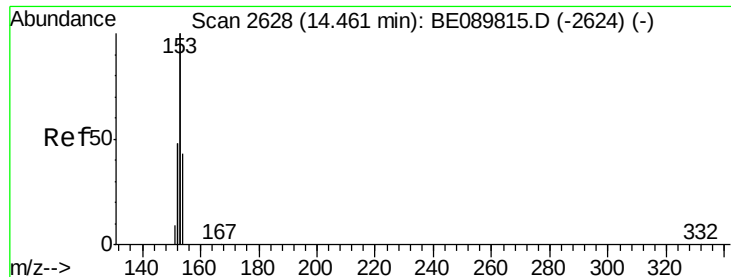


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.02 ng

RT: 14.49 min Scan# 2631

Delta R.T. 0.03 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

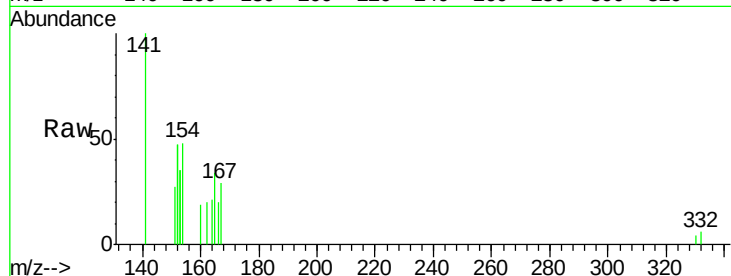
Tgt Ion:154 Resp: 1351

Ion Ratio Lower Upper

154 100

153 0.0 401.5 602.3#

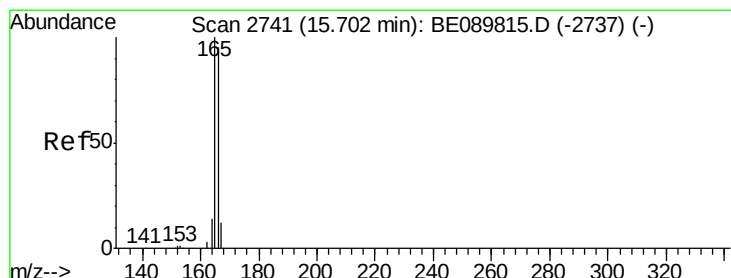
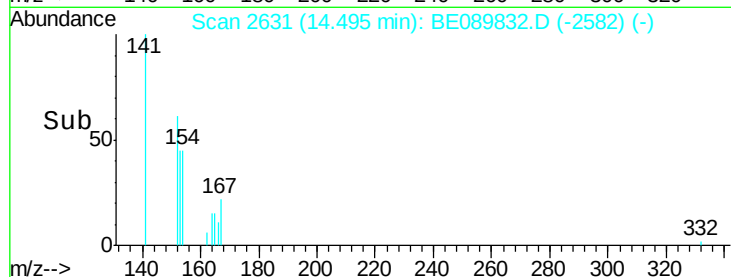
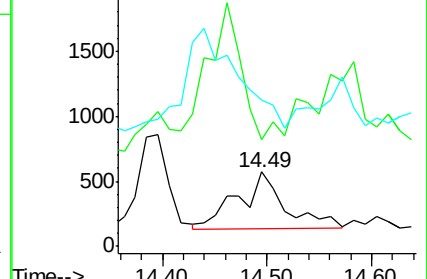
152 0.0 198.6 298.0#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#12

Fluorene

Concen: 0.02 ng

RT: 15.71 min Scan# 2742

Delta R.T. -0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

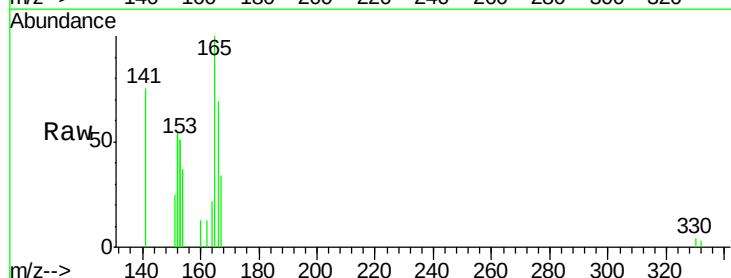
Tgt Ion:166 Resp: 1715

Ion Ratio Lower Upper

166 100

165 192.1 85.1 127.7#

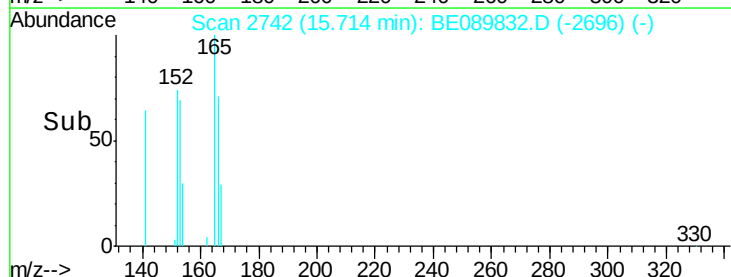
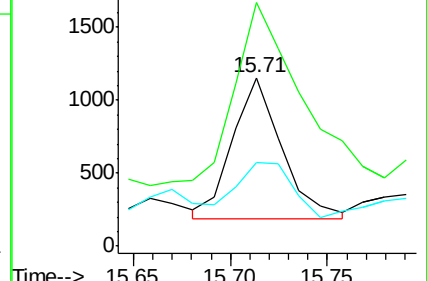
167 42.5 12.2 18.4#

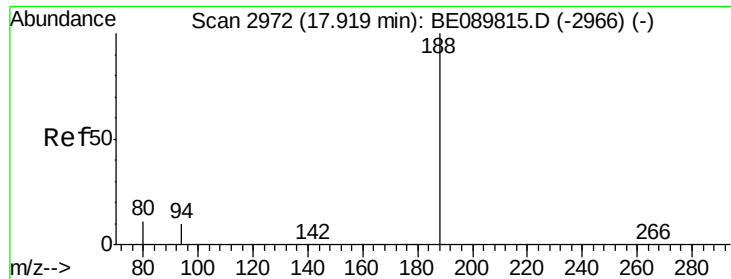


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.93 min Scan# 2972

Delta R.T. 0.01 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

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MW-11

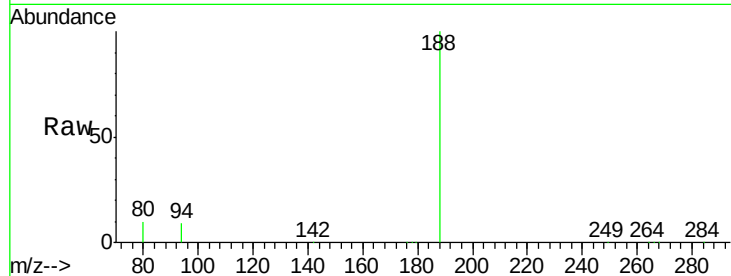
Tgt Ion:188 Resp: 641845

Ion Ratio Lower Upper

188 100

94 9.3 8.5 12.7

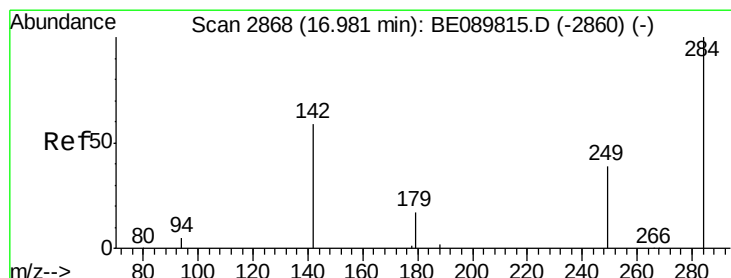
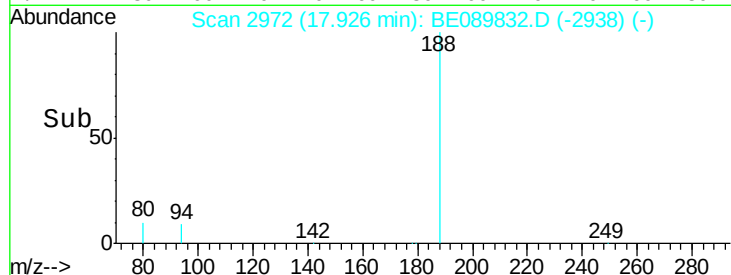
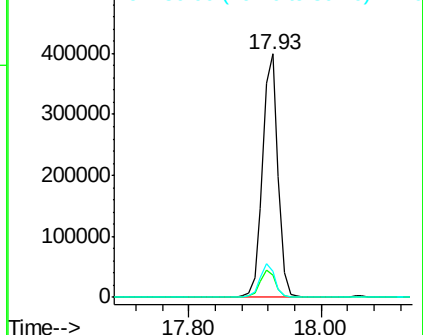
80 10.4 10.0 15.0



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



#14

Hexachlorobenzene

Concen: 0.00 ng

RT: 16.99 min Scan# 2868

Delta R.T. 0.01 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

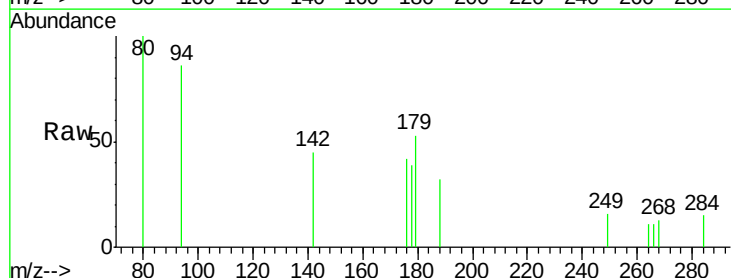
Tgt Ion:284 Resp: 71

Ion Ratio Lower Upper

284 100

142 139.4 53.3 79.9#

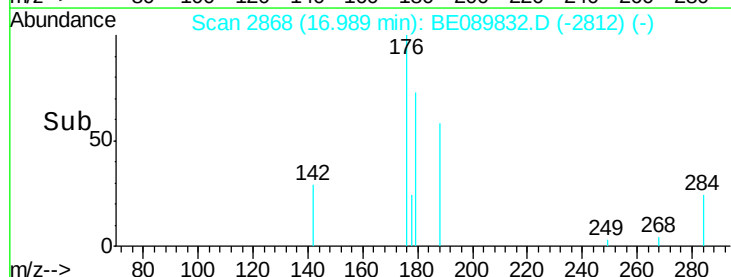
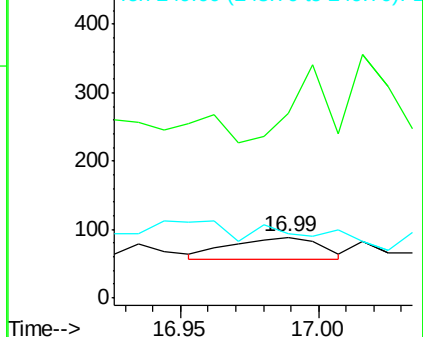
249 0.0 31.1 46.7#

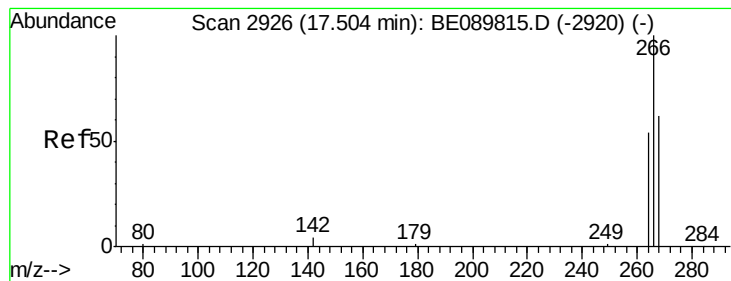


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: Below Cal

RT: 17.25 min Scan# 2897

Delta R.T. -0.25 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

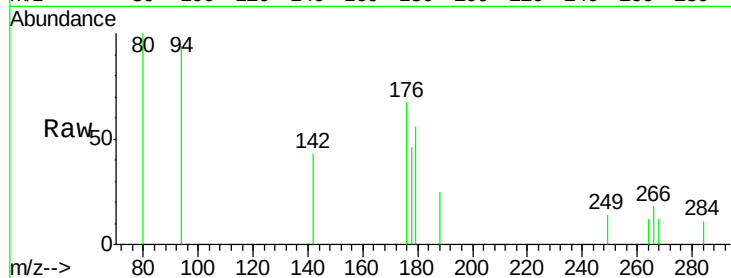
Tgt Ion:266 Resp: 163

Ion Ratio Lower Upper

266 100

268 66.4 51.6 77.4

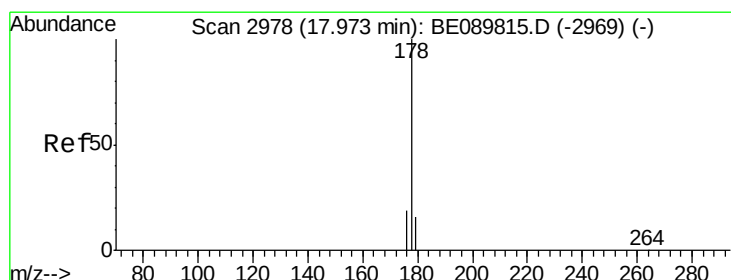
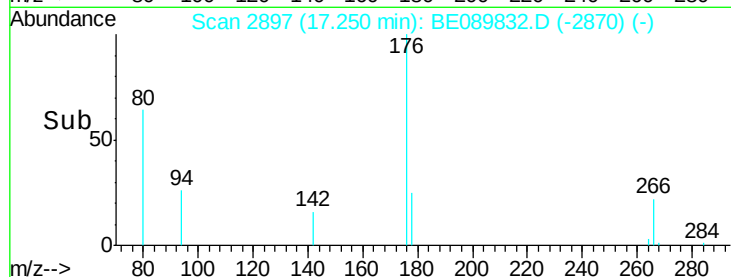
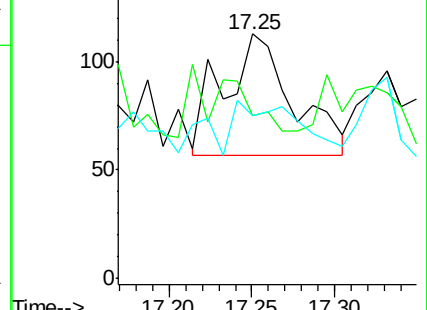
264 66.4 50.2 75.2



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: 0.12 ng

RT: 17.97 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

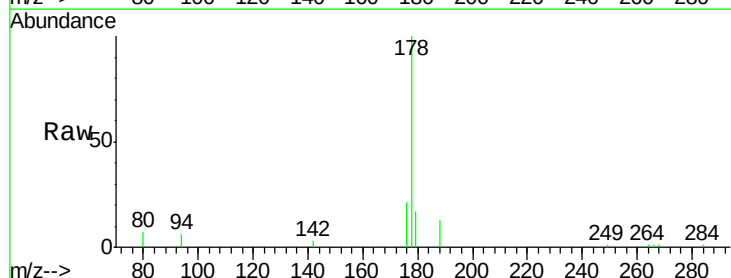
Tgt Ion:178 Resp: 17529

Ion Ratio Lower Upper

178 100

176 19.9 15.4 23.0

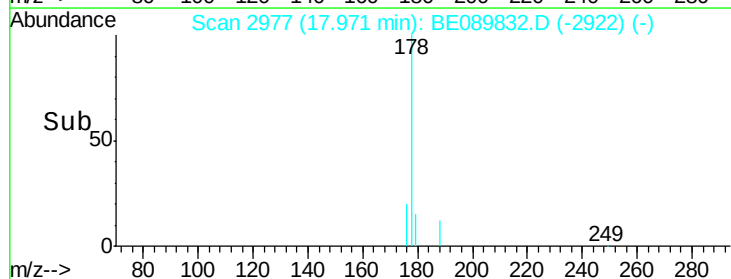
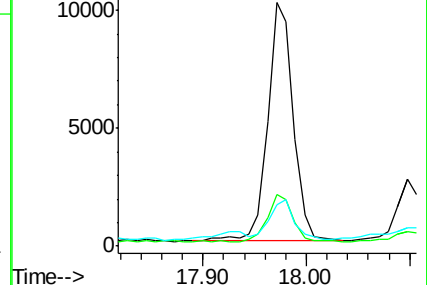
179 15.2 12.2 18.4

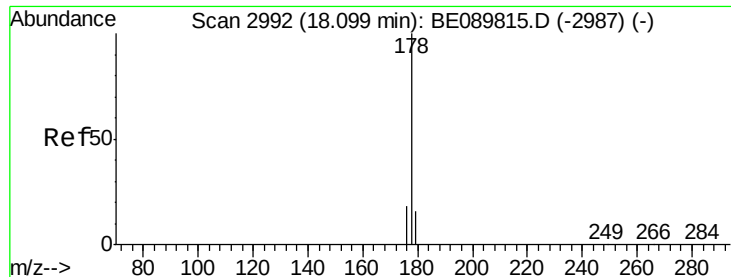


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.14 ng

RT: 17.97 min Scan# 2977

Delta R.T. -0.13 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampled :

MW-11

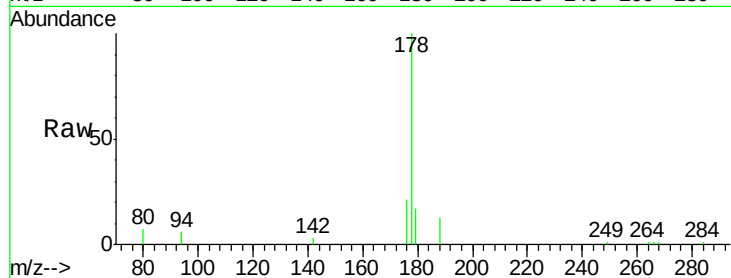
Tgt Ion:178 Resp: 17529

Ion Ratio Lower Upper

178 100

176 19.7 14.6 21.8

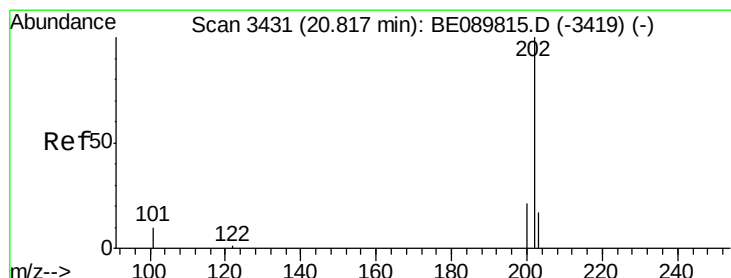
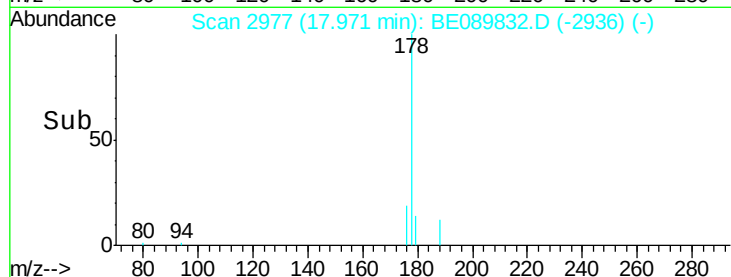
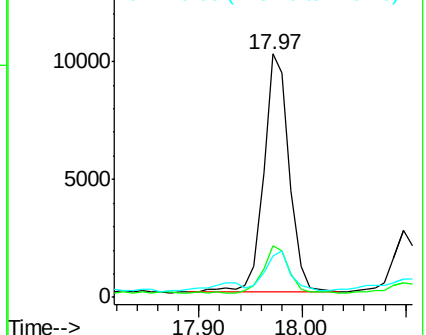
179 15.2 12.1 18.1



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: 0.33 ng

RT: 20.82 min Scan# 3431

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

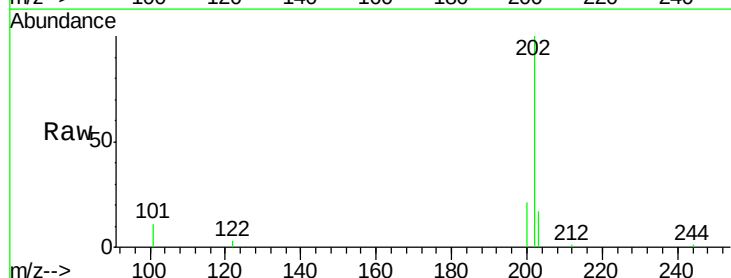
Tgt Ion:202 Resp: 41766

Ion Ratio Lower Upper

202 100

101 11.0 8.2 12.2

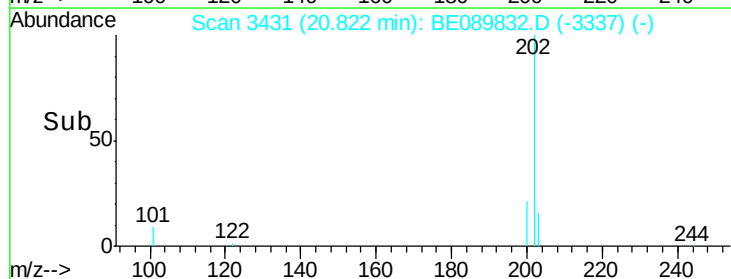
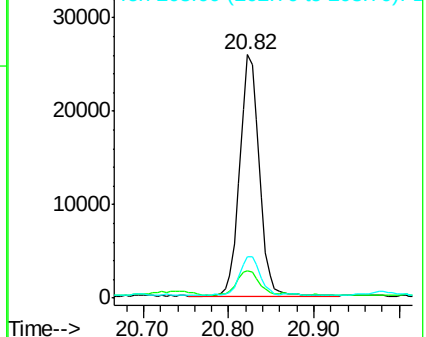
203 17.3 14.2 21.4

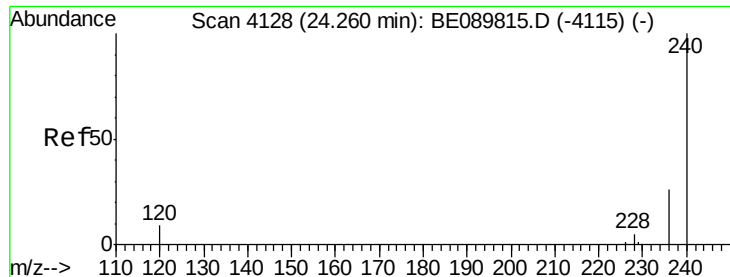


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.26 min Scan# 4128

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

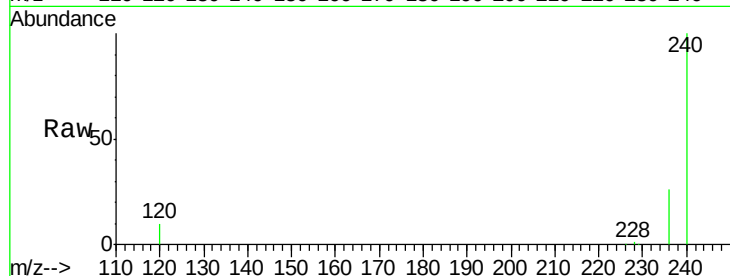
Tgt Ion:240 Resp: 621786

Ion Ratio Lower Upper

240 100

120 10.4 7.5 11.3

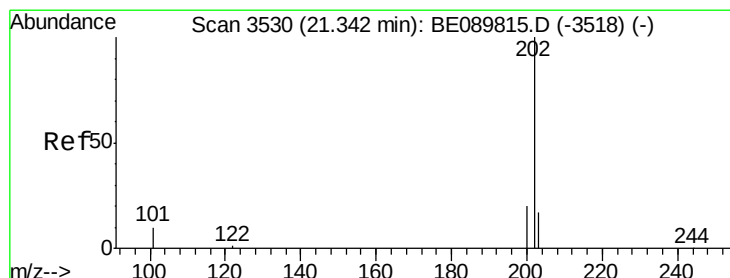
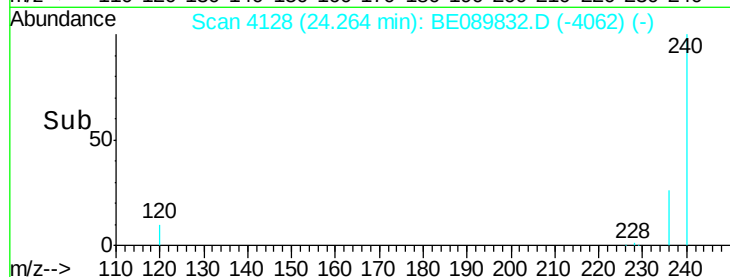
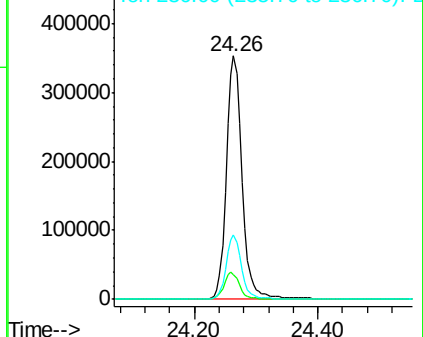
236 26.4 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.22 ng

RT: 21.35 min Scan# 3530

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

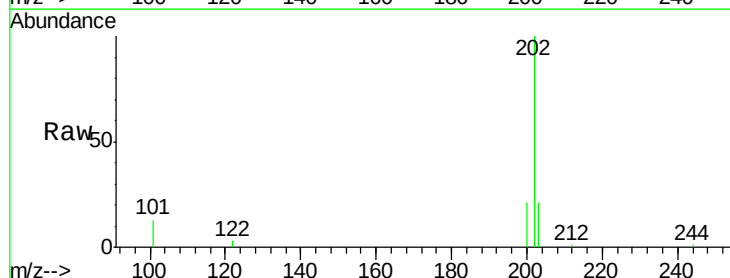
Tgt Ion:202 Resp: 34986

Ion Ratio Lower Upper

202 100

200 20.6 15.9 23.9

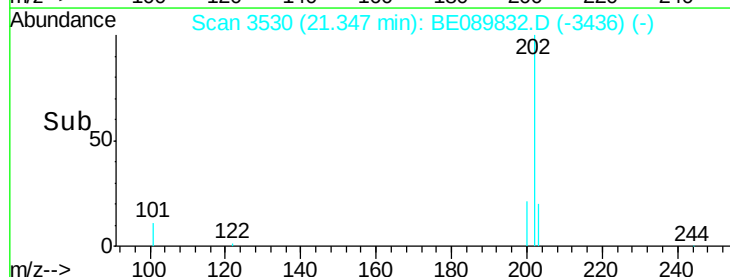
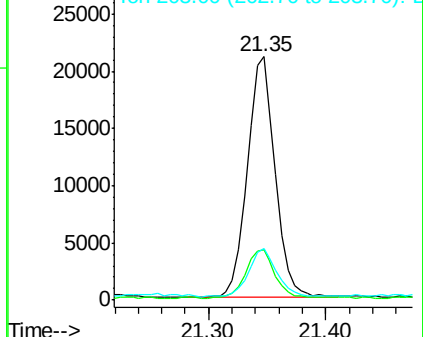
203 20.0 13.6 20.4

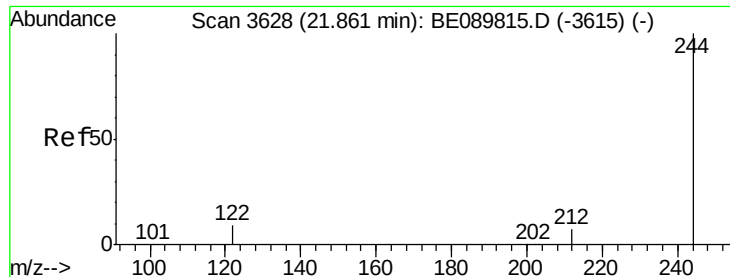


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

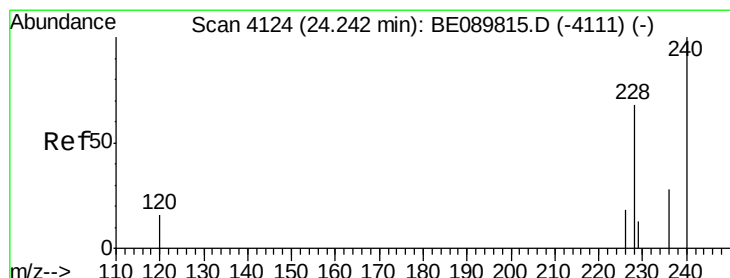
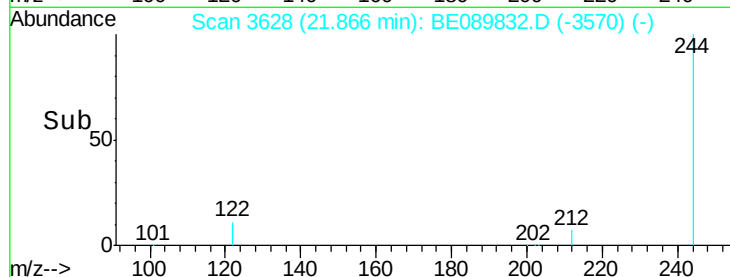
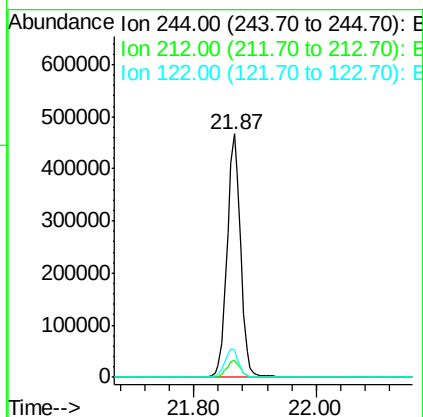
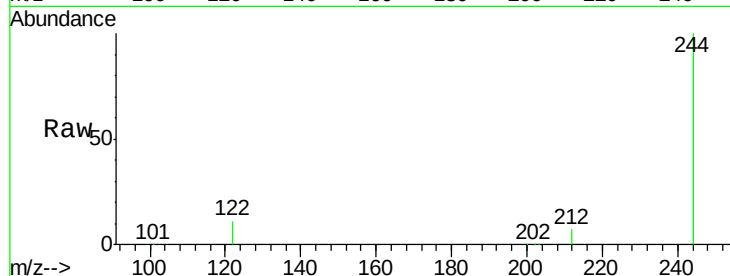




#21
 Terphenyl-d14
 Concen: 7.92 ng
 RT: 21.87 min Scan# 3628
 Delta R.T. 0.01 min
 Lab File: BE089832.D
 Acq: 25 Mar 2015 4:56

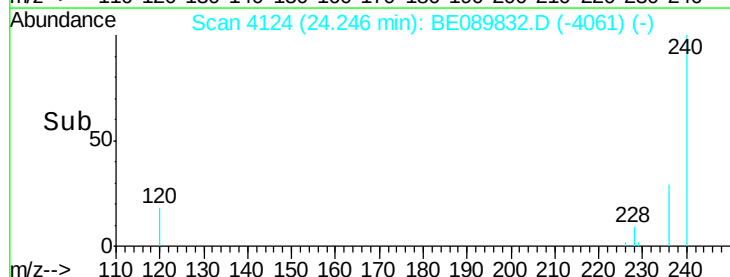
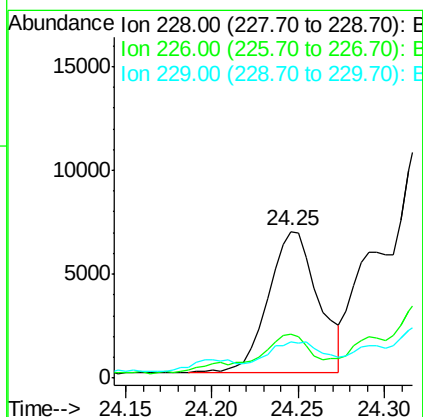
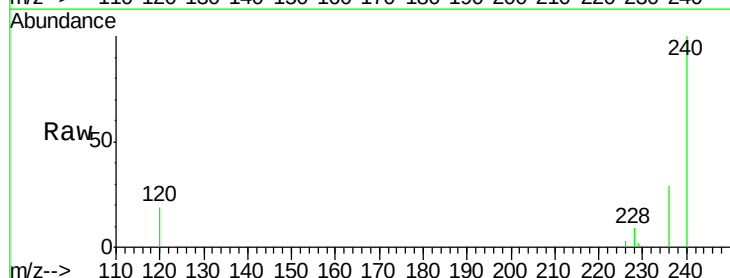
Instrument :
 BNA_E
 ClientSampleId :
 MW-11

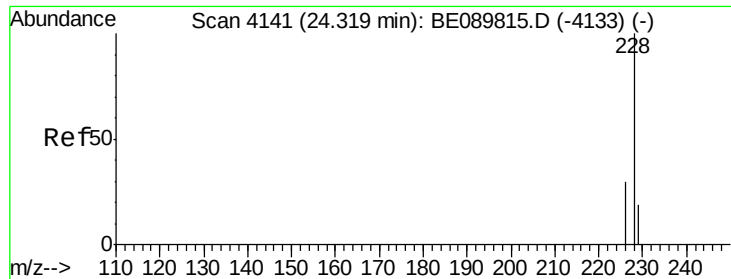
Tgt Ion:244 Resp: 726207
 Ion Ratio Lower Upper
 244 100
 212 7.1 7.3 10.9#
 122 11.1 10.5 15.7



#22
 Benzo(a)anthracene
 Concen: 0.12 ng
 RT: 24.25 min Scan# 4124
 Delta R.T. -0.00 min
 Lab File: BE089832.D
 Acq: 25 Mar 2015 4:56

Tgt Ion:228 Resp: 13810
 Ion Ratio Lower Upper
 228 100
 226 29.7 19.8 29.8
 229 24.5 16.3 24.5#





#23

Chrysene

Concen: 0.24 ng

RT: 24.32 min Scan# 4141

Delta R.T. 0.01 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

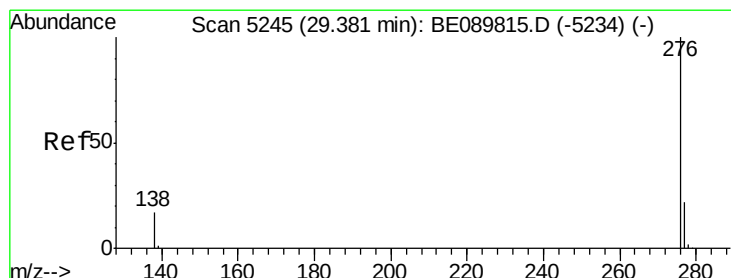
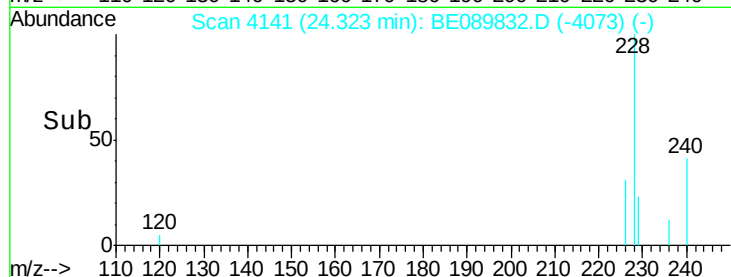
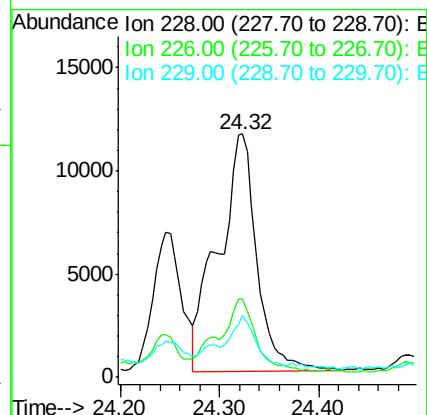
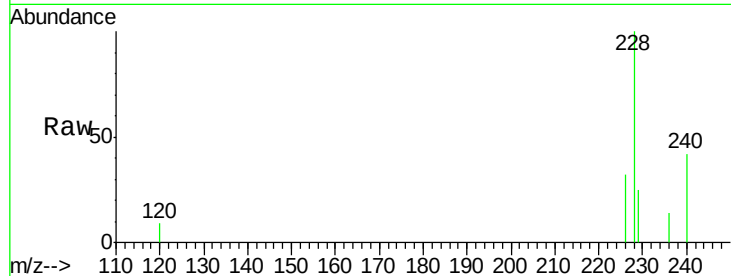
Tgt Ion:228 Resp: 31006

Ion Ratio Lower Upper

228 100

226 32.1 23.0 34.4

229 25.2 15.8 23.6#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.53 ng

RT: 29.39 min Scan# 5246

Delta R.T. 0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

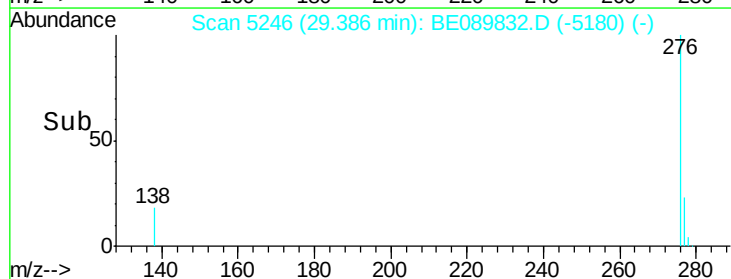
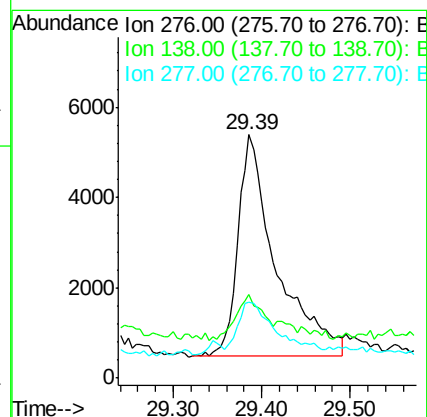
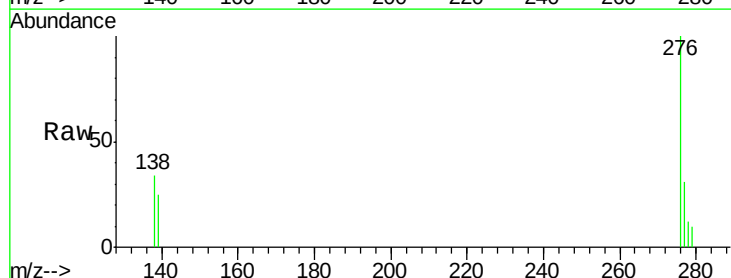
Tgt Ion:276 Resp: 14623

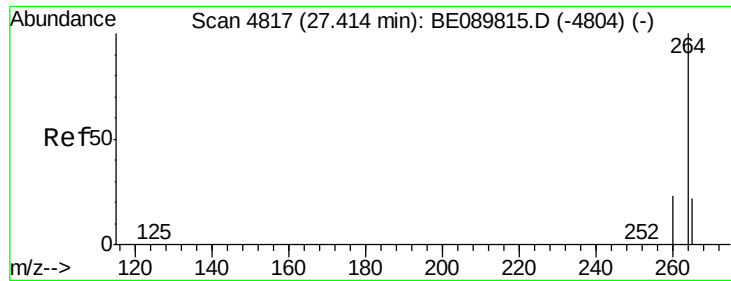
Ion Ratio Lower Upper

276 100

138 13.8 4.3 6.5#

277 18.4 9.0 13.4#

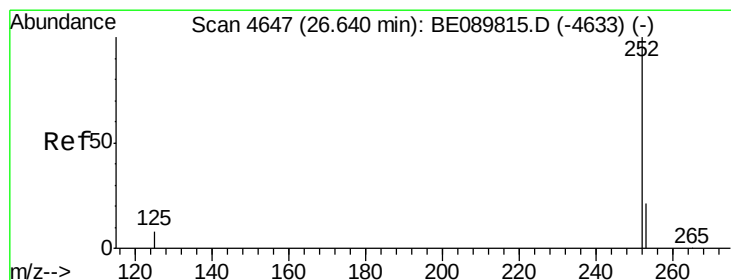
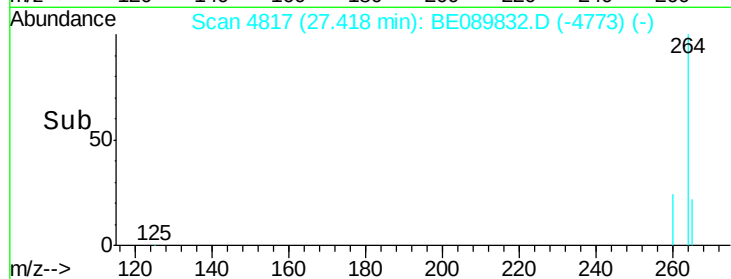
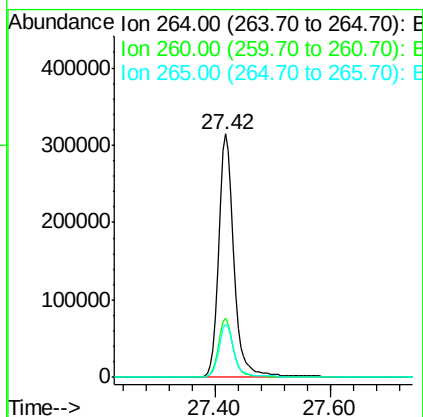
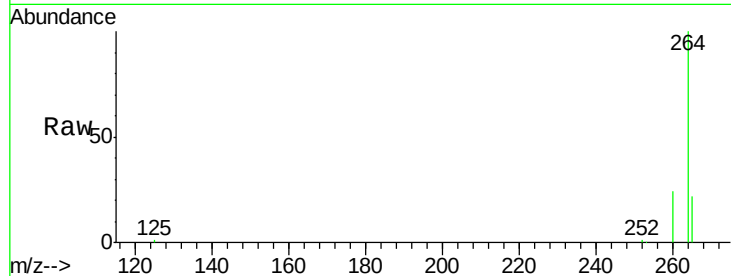




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.42 min Scan# 4817
 Delta R.T. 0.00 min
 Lab File: BE089832.D
 Acq: 25 Mar 2015 4:56

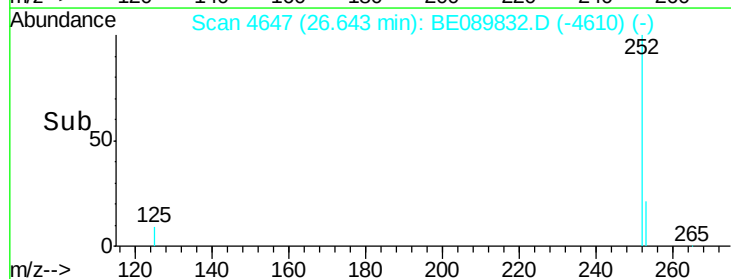
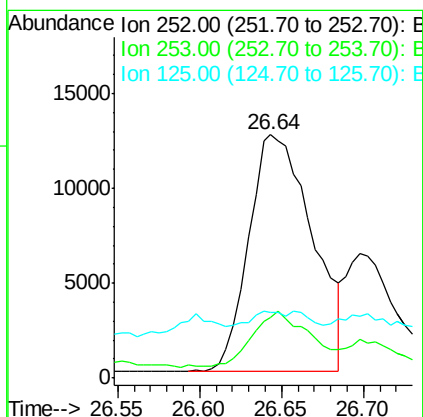
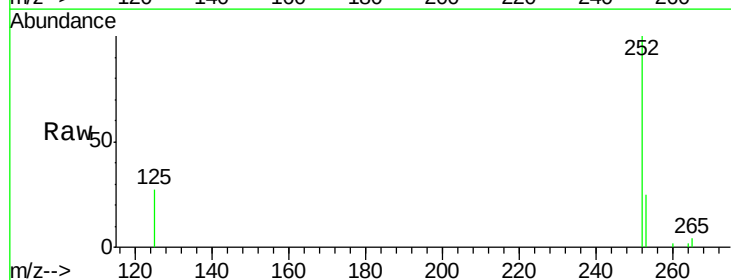
Instrument :
 BNA_E
 ClientSampleId :
 MW-11

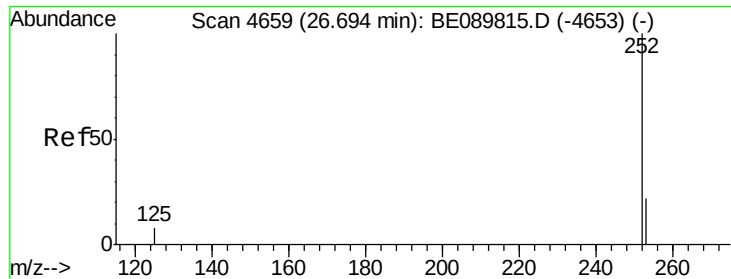
Tgt Ion: 264 Resp: 592587
 Ion Ratio Lower Upper
 264 100
 260 24.4 18.2 27.2
 265 21.8 17.3 25.9



#26
 Benzo(b)fluoranthene
 Concen: 0.57 ng
 RT: 26.64 min Scan# 4647
 Delta R.T. 0.01 min
 Lab File: BE089832.D
 Acq: 25 Mar 2015 4:56

Tgt Ion: 252 Resp: 33806
 Ion Ratio Lower Upper
 252 100
 253 24.7 17.8 26.6
 125 26.8 8.7 13.1#





#27

Benzo(k)fluoranthene

Concen: 0.11 ng

RT: 26.70 min Scan# 4659

Delta R.T. -0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

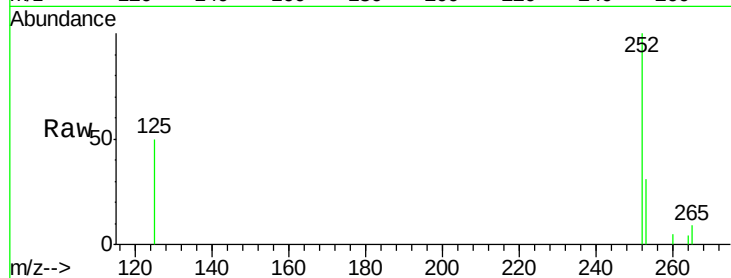
Tgt Ion:252 Resp: 13578

Ion Ratio Lower Upper

252 100

253 30.7 18.6 28.0#

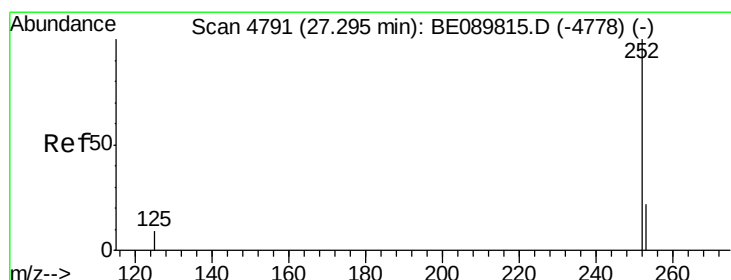
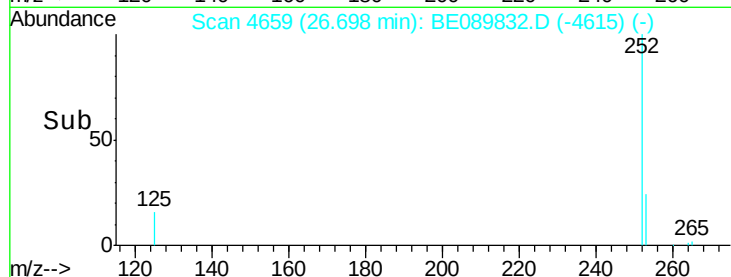
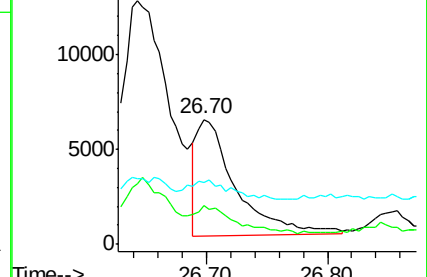
125 50.1 10.8 16.2#



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



#28

Benzo(a)pyrene

Concen: 0.41 ng

RT: 27.30 min Scan# 4791

Delta R.T. -0.00 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

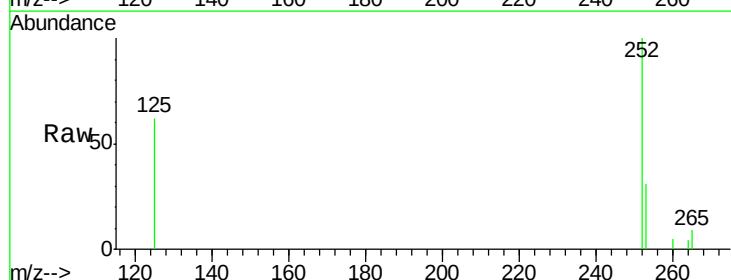
Tgt Ion:252 Resp: 14291

Ion Ratio Lower Upper

252 100

253 31.3 21.0 31.4

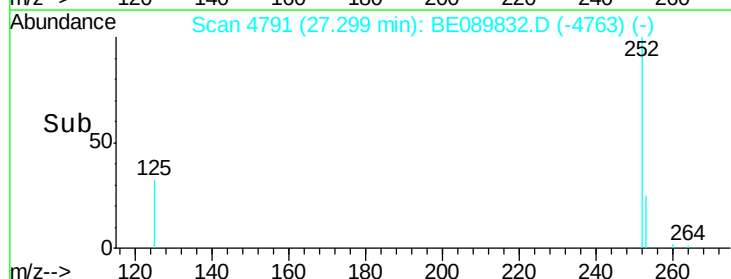
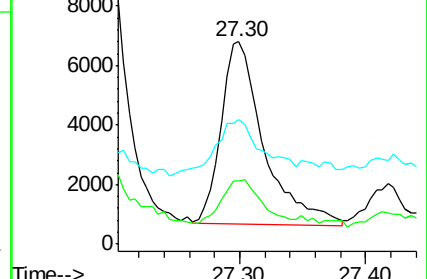
125 61.9 13.3 19.9#

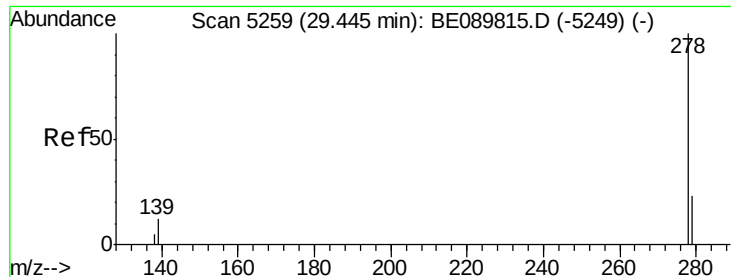


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.28 ng

RT: 29.44 min Scan# 5257

Delta R.T. -0.01 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Instrument :

BNA_E

ClientSampleId :

MW-11

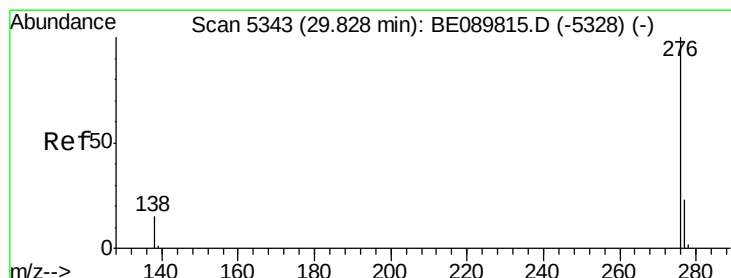
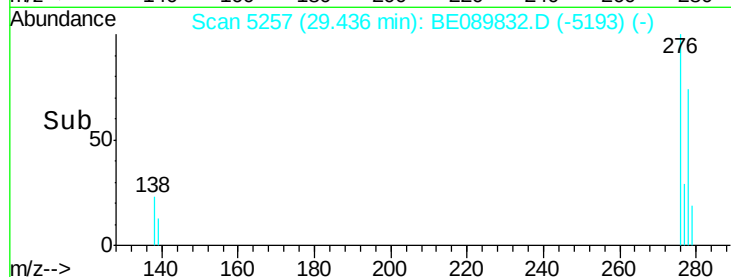
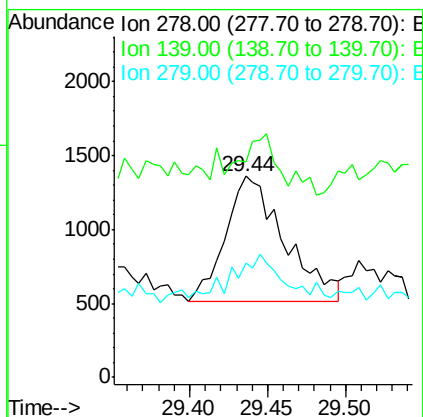
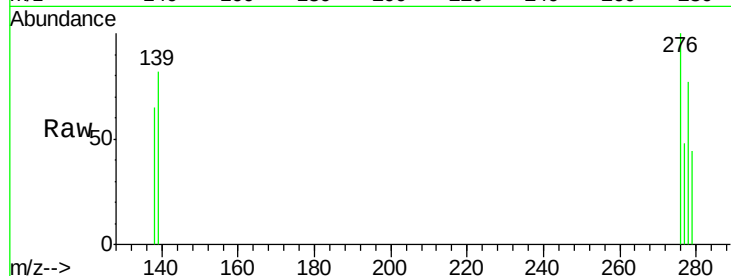
Tgt Ion: 278 Resp: 2214

Ion Ratio Lower Upper

278 100

139 107.1 20.0 30.0#

279 57.1 28.9 43.3#



#30

Benzo(g,h,i)perylene

Concen: 0.40 ng

RT: 29.83 min Scan# 5344

Delta R.T. 0.01 min

Lab File: BE089832.D

Acq: 25 Mar 2015 4:56

Tgt Ion: 276 Resp: 19548

Ion Ratio Lower Upper

276 100

277 29.5 19.2 28.8#

138 30.9 22.9 34.3

