

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089625.D
 Acq On : 18 Feb 2015 19:34
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Quant Time: Feb 19 04:59:50 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	34829	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	137695	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	66666	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	130784	5.00	ng	0.00
19) Chrysene-d12	23.66	240	124095	5.00	ng	0.00
25) Perylene-d12	25.34	264	101975	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	61531	10.28	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	168303	9.43	ng	0.00
21) Terphenyl-d14	22.30	244	210505	11.80	ng	0.00

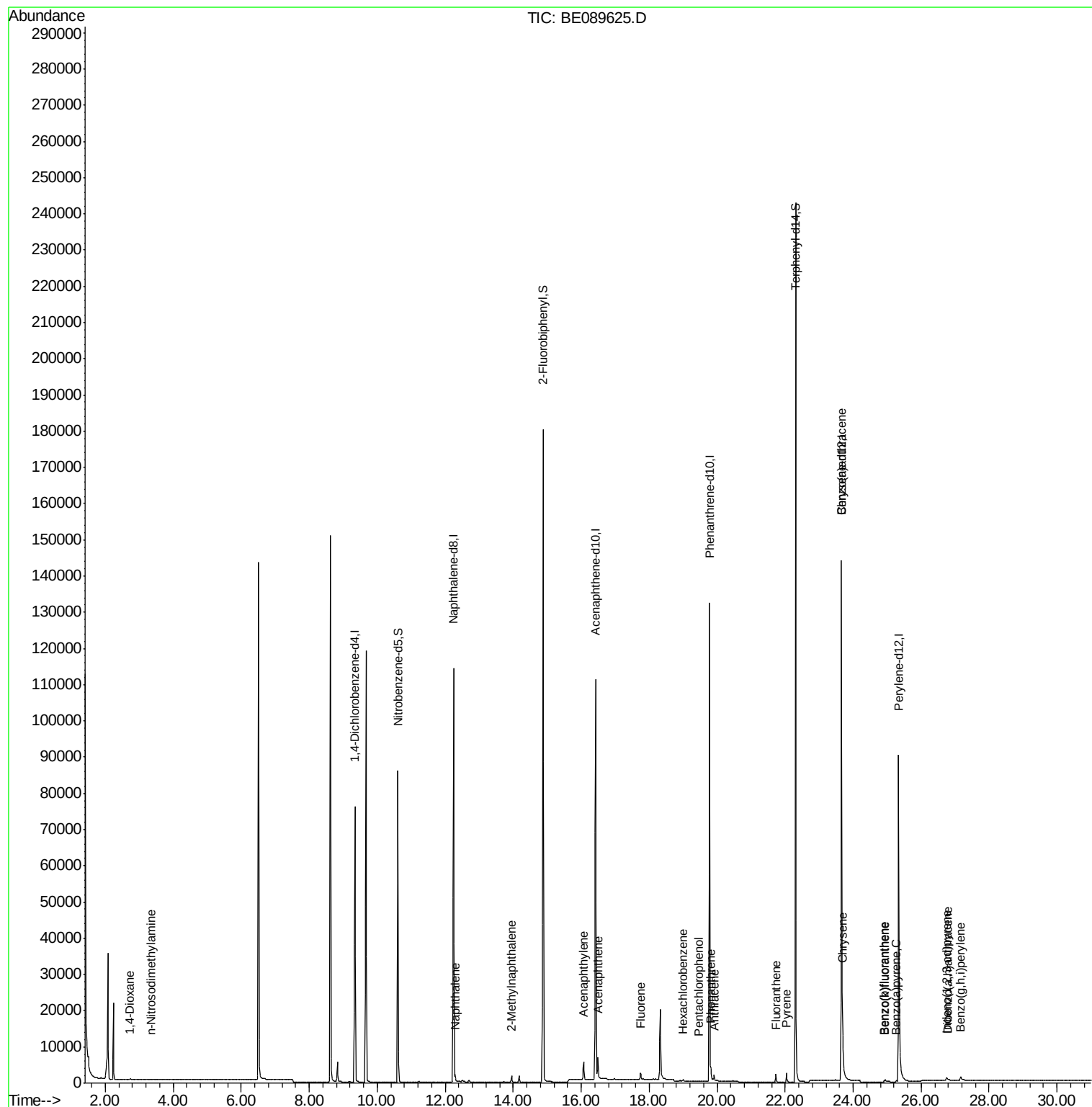
Target Compounds						Qvalue
2) 1,4-Dioxane	2.74	88	278	0.07	ng	# 77
3) n-Nitrosodimethylamine	3.35	42	8	0.00	ng	# 1
6) Naphthalene	12.29	128	2348	0.08	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1275	0.07	ng	98
10) Acenaphthylene	16.07	152	6990	0.06	ng	100
11) Acenaphthene	16.50	154	1273	0.07	ng	85
12) Fluorene	17.74	166	1425	0.07	ng	99
14) Hexachlorobenzene	19.00	284	442	0.08	ng	94
15) Pentachlorophenol	19.45	266	34	0.01	ng	# 68
16) Phenanthrene	19.82	178	2507	0.08	ng	99
17) Anthracene	19.91	178	1757	0.06	ng	99
18) Fluoranthene	21.73	202	1880	0.06	ng	99
20) Pyrene	22.04	202	1994	0.07	ng	100
22) Benzo(a)anthracene	23.65	228	7195	0.07	ng	# 94
23) Chrysene	23.69	228	11131	0.09	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	2109	0.19	ng	# 92
26) Benzo(b)fluoranthene	24.91	252	559	0.29	ng	# 81
27) Benzo(k)fluoranthene	24.94	252	1148	0.04	ng	# 82
28) Benzo(a)pyrene	25.27	252	556	0.26	ng	# 73
29) Dibenzo(a,h)anthracene	26.77	278	421	0.25	ng	# 50
30) Benzo(g,h,i)perylene	27.16	276	2768	0.16	ng	# 69

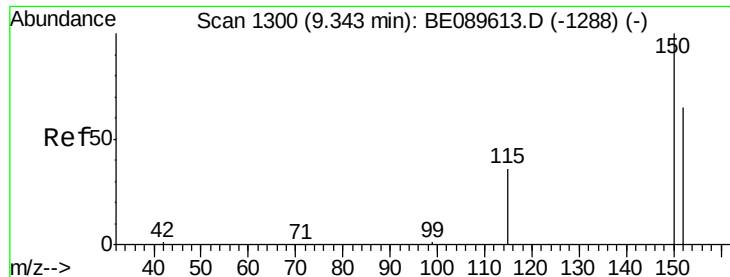
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

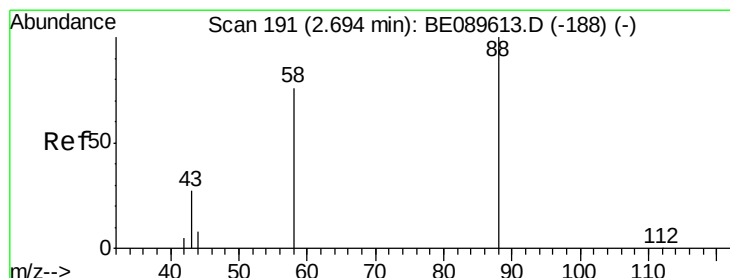
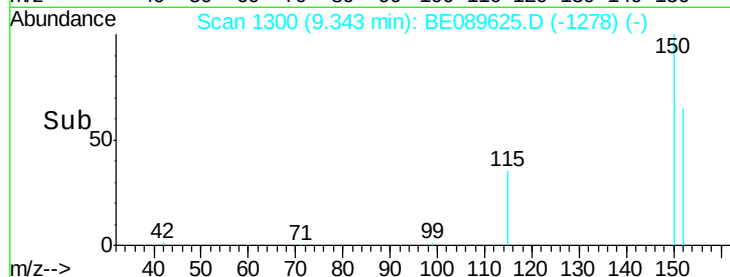
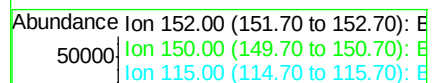
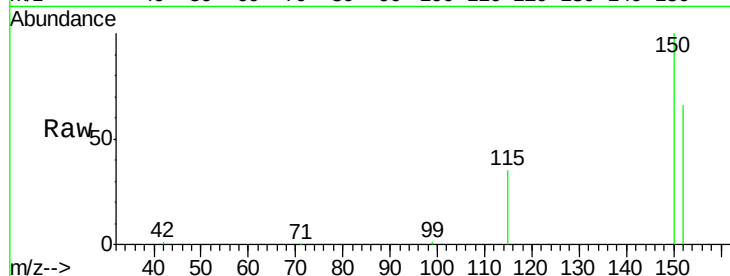
Tgt Ion: 152 Resp: 34829

Ion Ratio Lower Upper

152 100

150 152.7 122.4 183.6

115 53.7 44.2 66.2



#2

1,4-Dioxane

Concen: 0.07 ng

RT: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

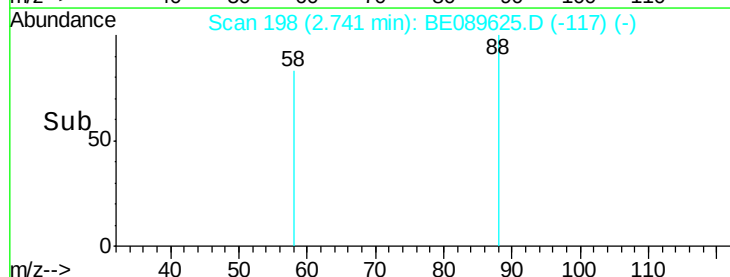
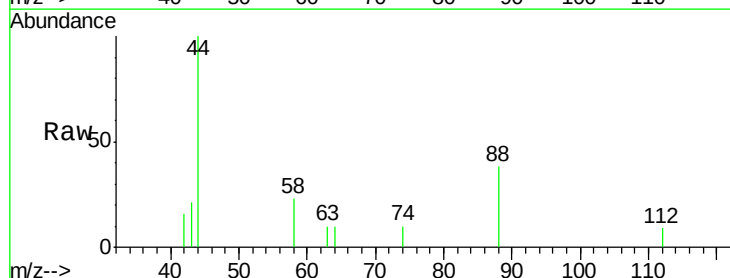
Tgt Ion: 88 Resp: 278

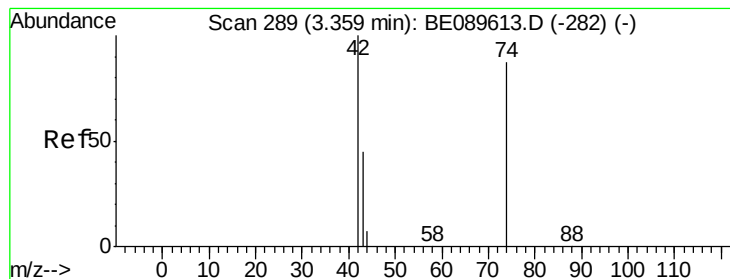
Ion Ratio Lower Upper

88 100

58 78.4 54.6 81.8

43 0.0 20.6 30.8#





#3

n-Nitrosodimethylamine

Concen: 0.00 ng

RT: 3.35 min Scan# 288

Delta R.T. -0.01 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

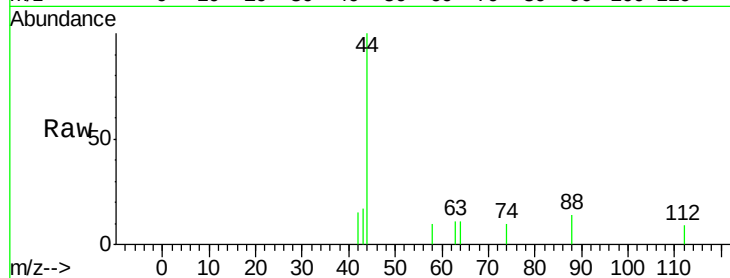
Tgt Ion: 42 Resp: 8

Ion Ratio Lower Upper

42 100

74 0.0 121.4 182.0#

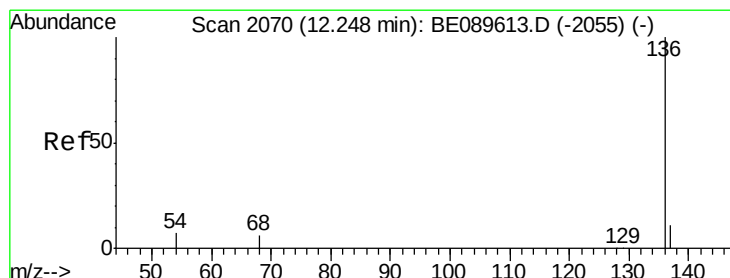
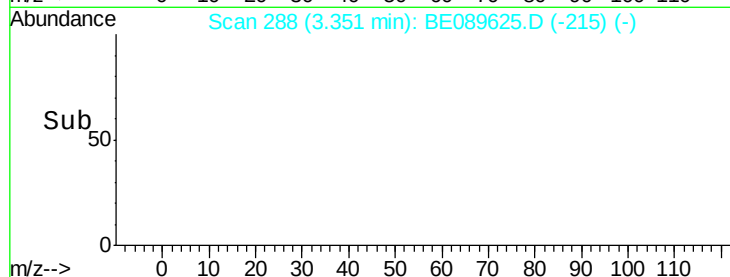
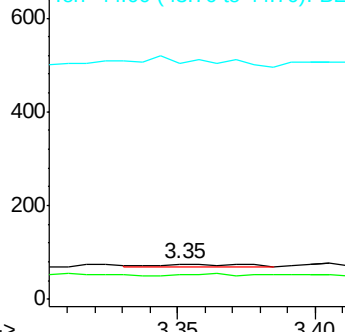
44 575.0 4.5 6.7#



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: 12.24 min Scan# 2070

Delta R.T. -0.01 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

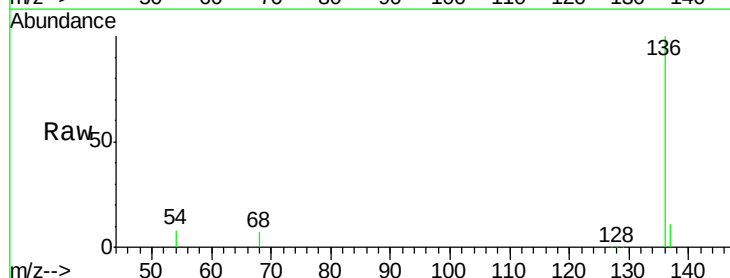
Tgt Ion: 136 Resp: 137695

Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

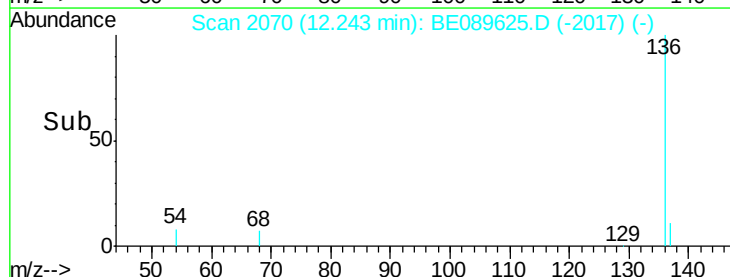
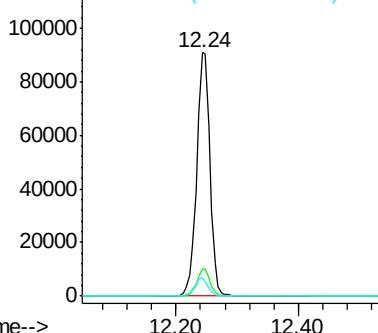
54 7.8 5.3 7.9

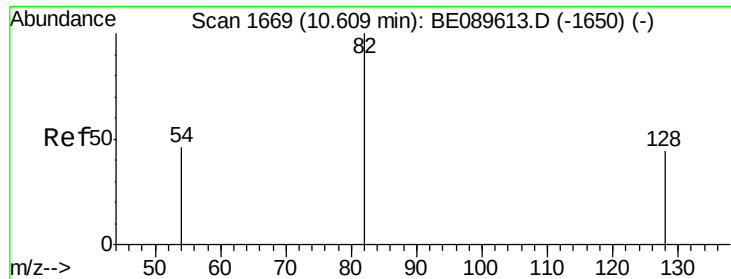


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 10.28 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

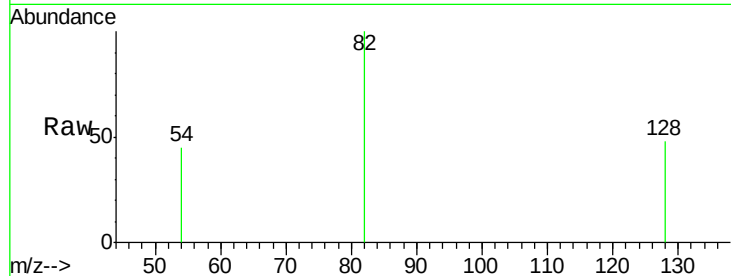
Tgt Ion: 82 Resp: 61531

Ion Ratio Lower Upper

82 100

128 48.0 35.5 53.3

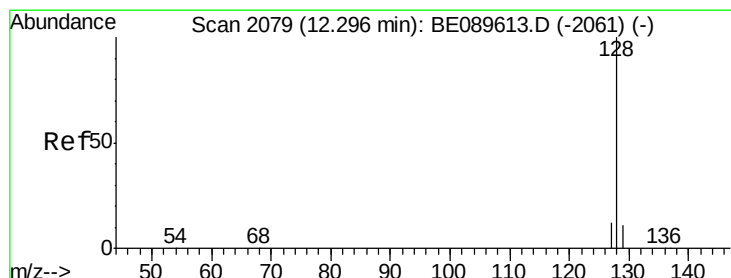
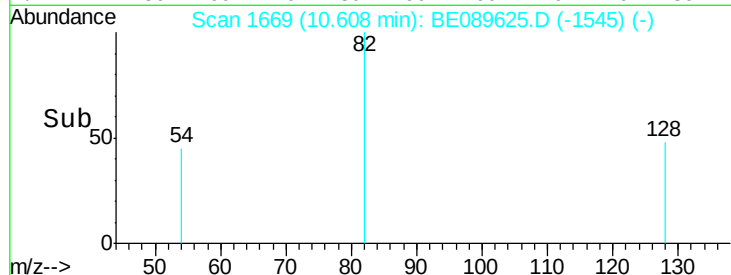
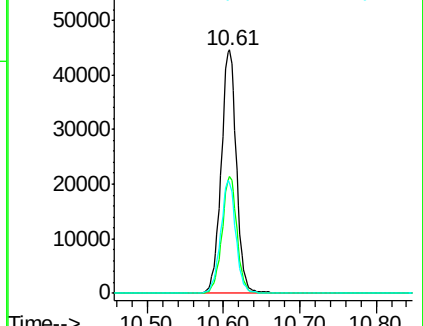
54 45.4 37.5 56.3



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: 0.08 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

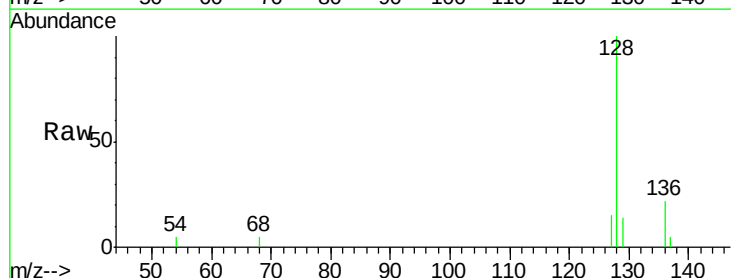
Tgt Ion: 128 Resp: 2348

Ion Ratio Lower Upper

128 100

129 13.5 8.9 13.3#

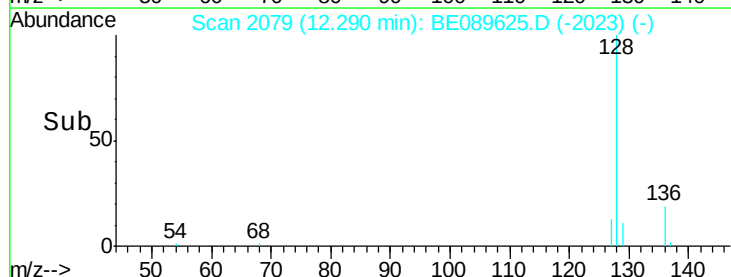
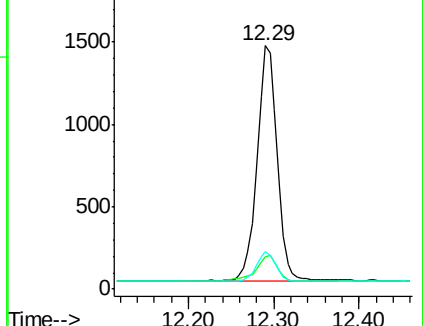
127 15.3 9.8 14.8#

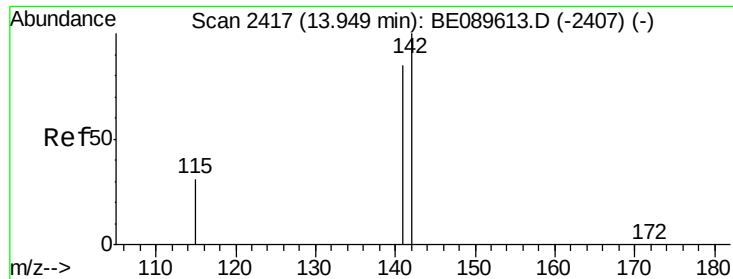


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampled :

MDL-05-W

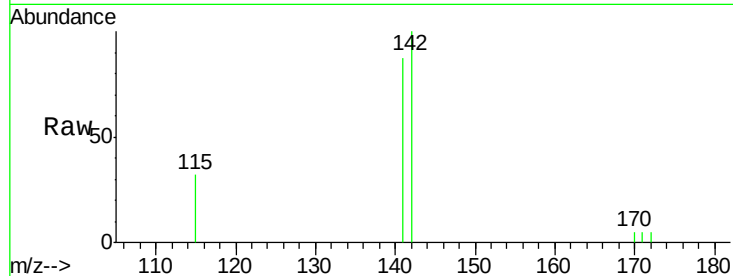
Tgt Ion:142 Resp: 1275

Ion Ratio Lower Upper

142 100

141 87.4 68.3 102.5

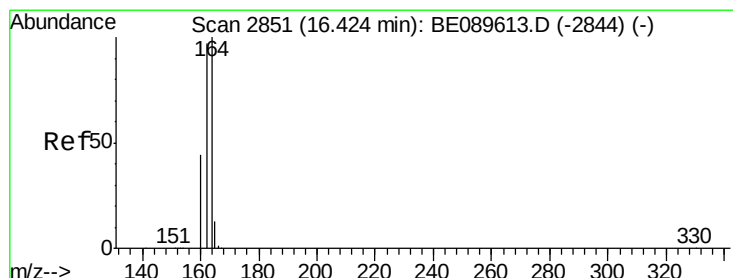
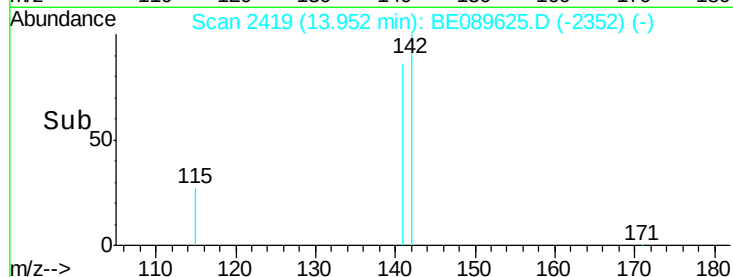
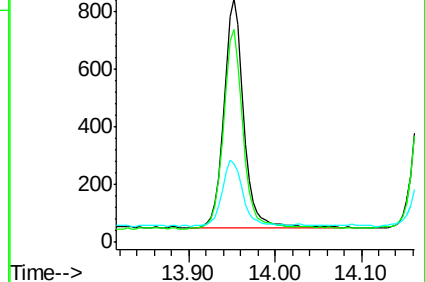
115 32.4 25.1 37.7



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: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

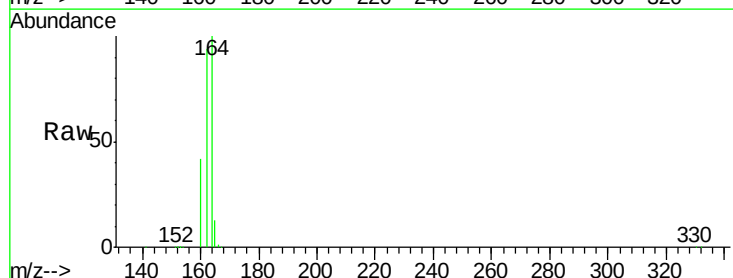
Tgt Ion:164 Resp: 66666

Ion Ratio Lower Upper

164 100

162 94.4 77.5 116.3

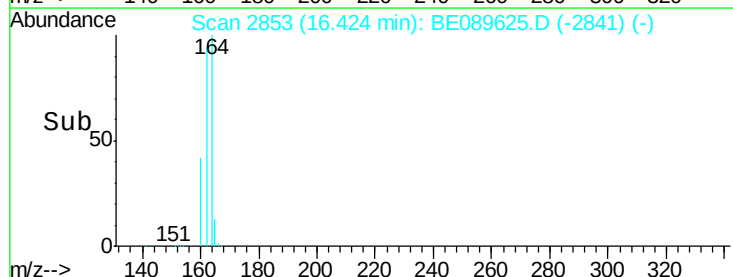
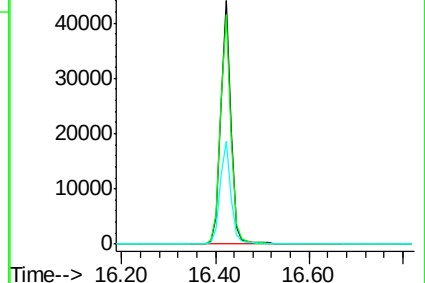
160 42.3 35.5 53.3

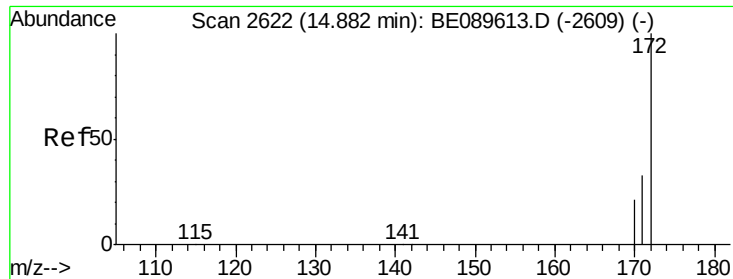


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.43 ng

RT: 14.88 min Scan# 2623

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

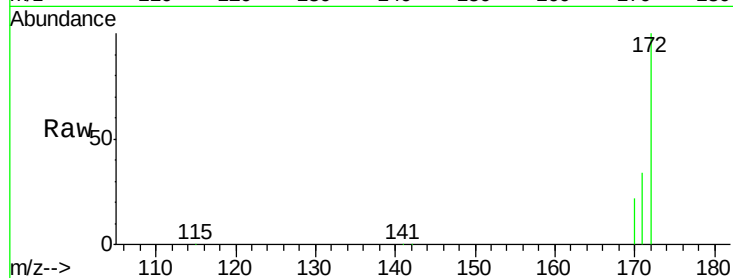
Tgt Ion:172 Resp: 168303

Ion Ratio Lower Upper

172 100

171 33.6 26.9 40.3

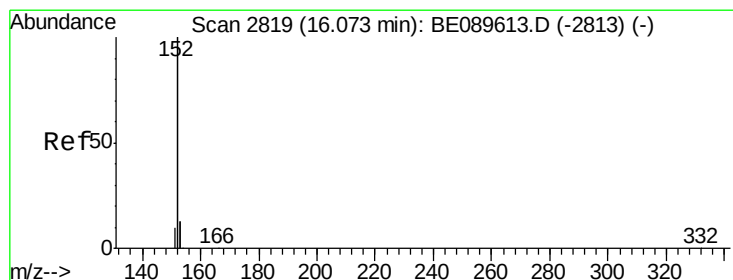
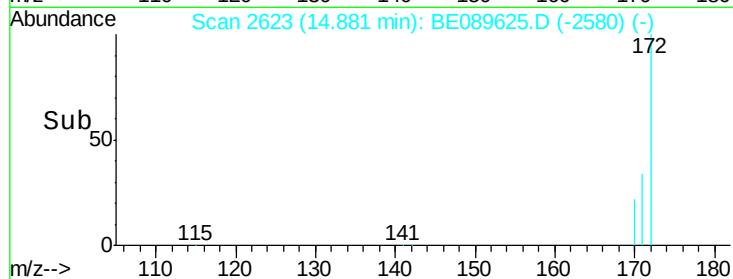
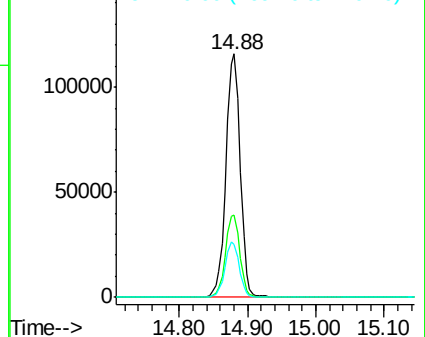
170 21.7 17.4 26.0



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: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

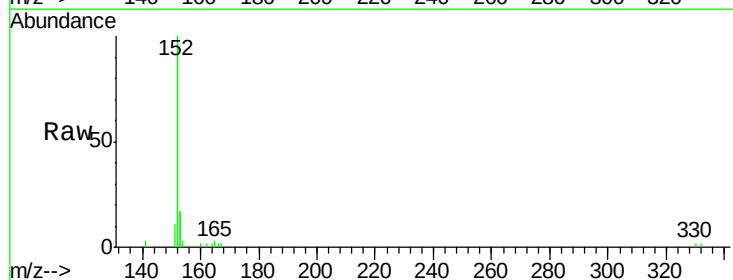
Tgt Ion:152 Resp: 6990

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

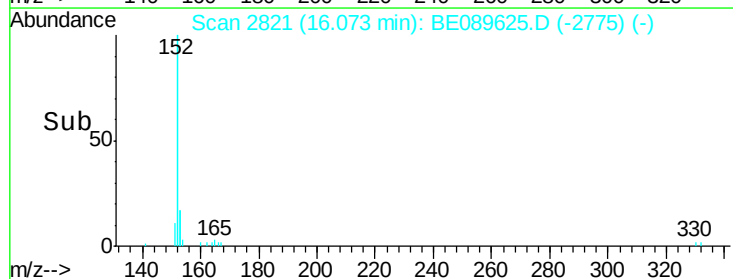
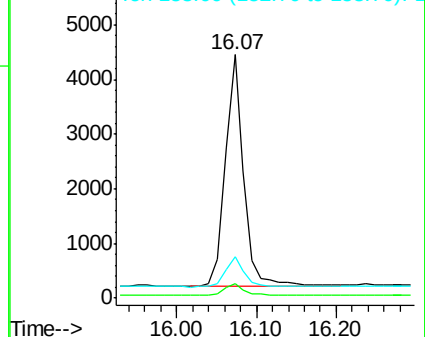
153 13.1 10.5 15.7

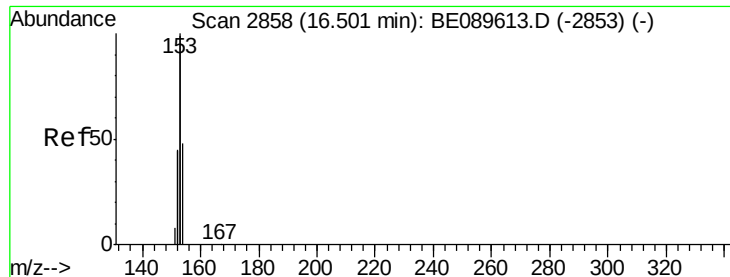


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.50 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

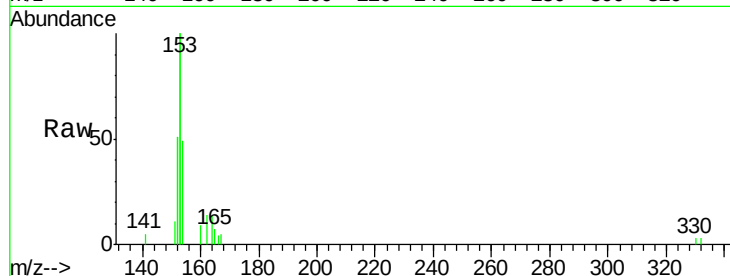
Tgt Ion:154 Resp: 1273

Ion Ratio Lower Upper

154 100

153 464.3 348.9 523.3

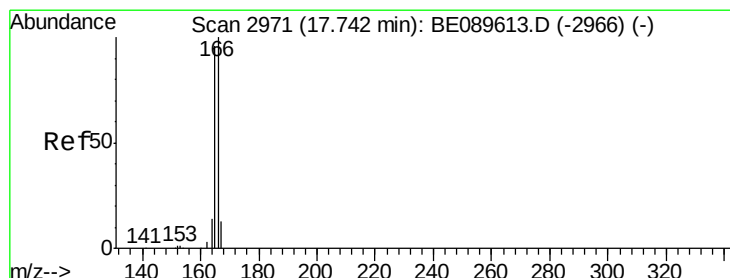
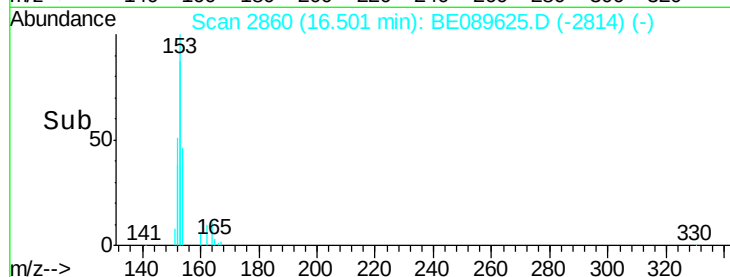
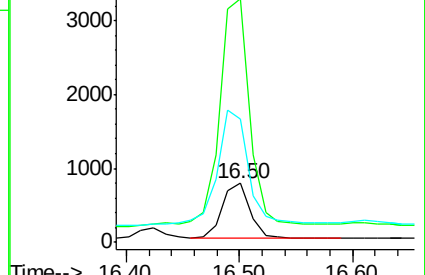
152 245.1 166.6 249.8



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: 0.07 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

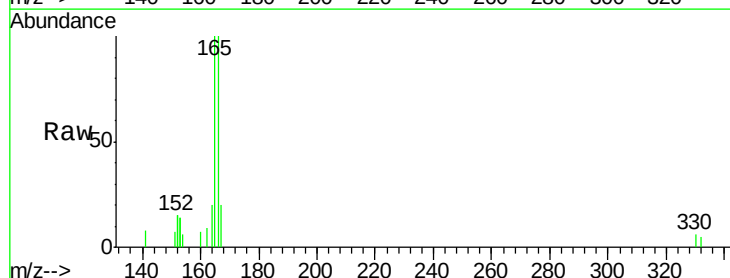
Tgt Ion:166 Resp: 1425

Ion Ratio Lower Upper

166 100

165 93.6 74.7 112.1

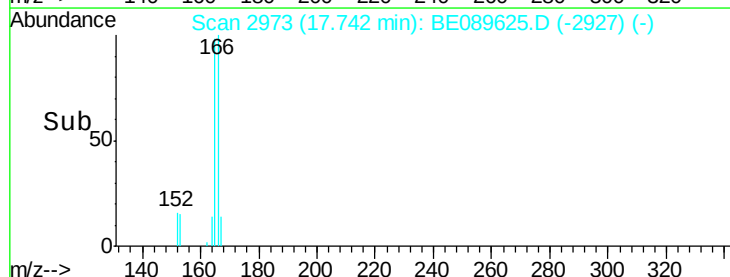
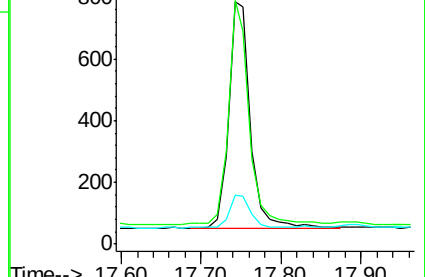
167 14.2 10.5 15.7

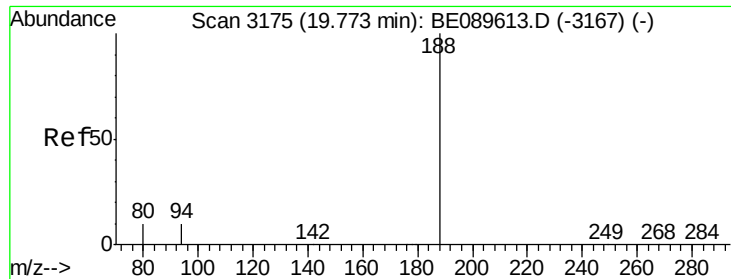


Abundance Ion 166.00 (165.70 to 166.70): E

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: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampled :

MDL-05-W

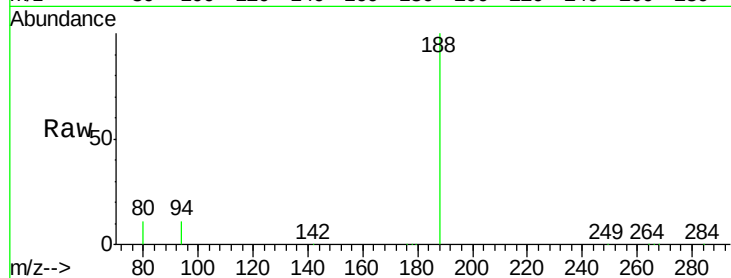
Tgt Ion:188 Resp: 130784

Ion Ratio Lower Upper

188 100

94 11.0 8.2 12.4

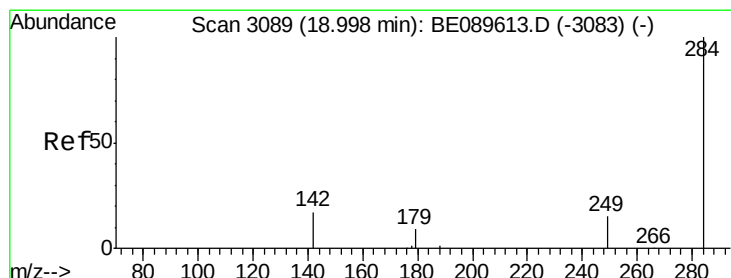
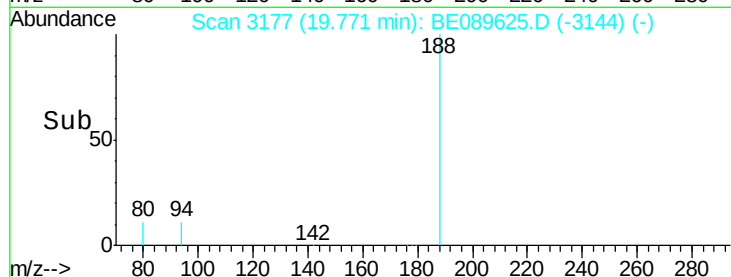
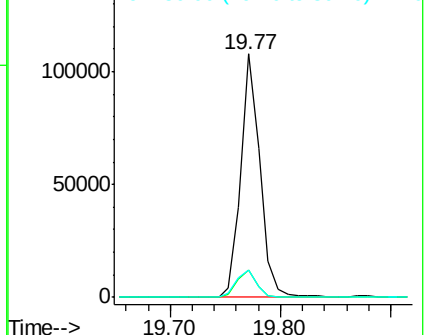
80 11.2 8.1 12.1



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: 0.08 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

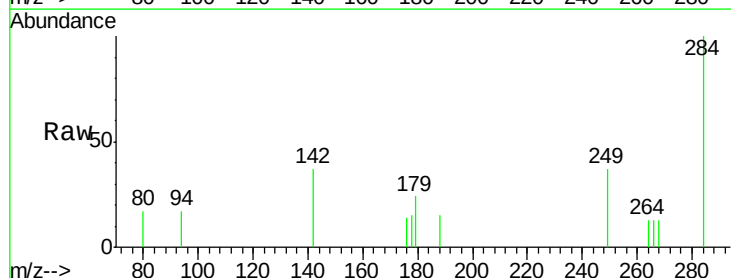
Tgt Ion:284 Resp: 442

Ion Ratio Lower Upper

284 100

142 46.6 32.3 48.5

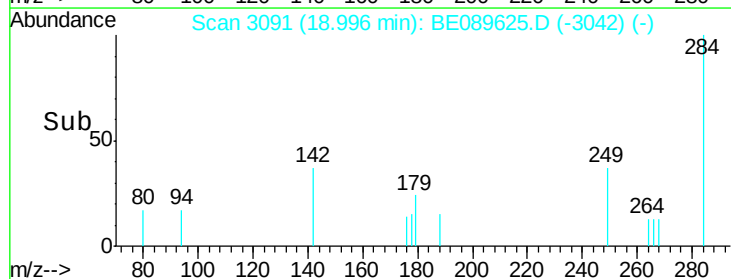
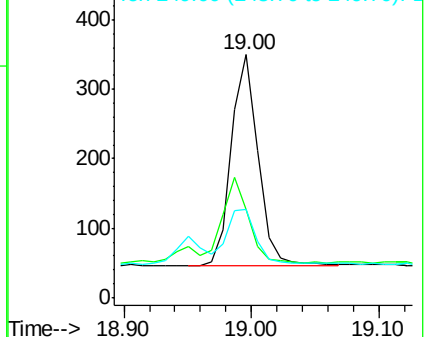
249 27.8 22.3 33.5

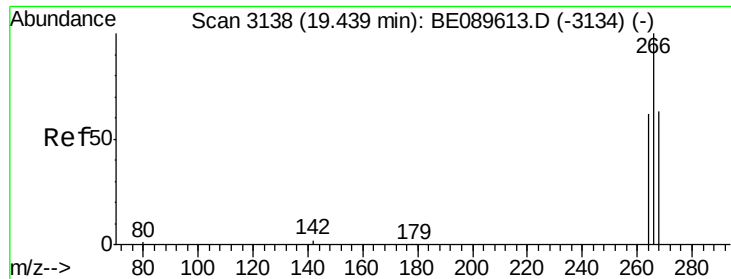


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

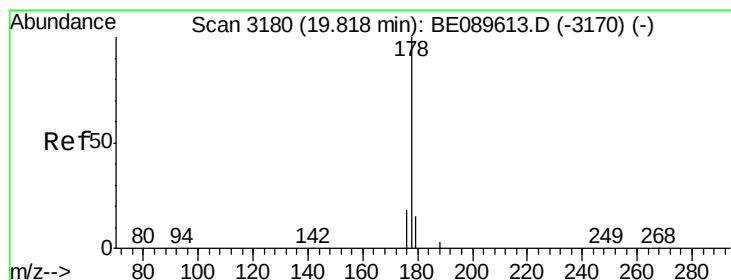
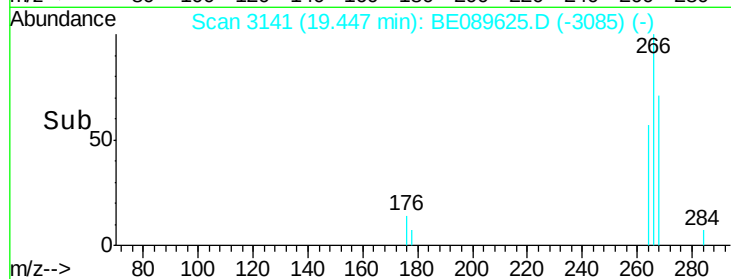
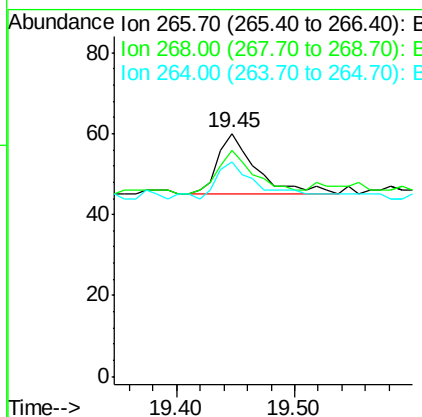
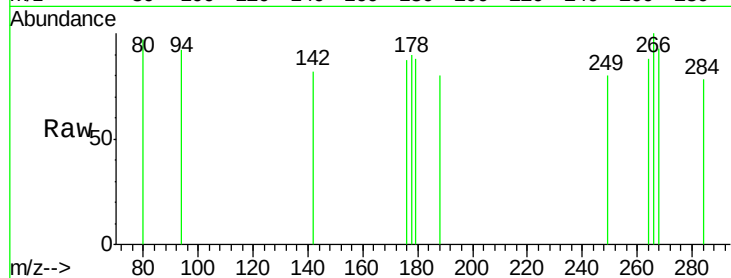




#15
 Pentachlorophenol
 Concen: 0.01 ng
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089625.D
 Acq: 18 Feb 2015 19:34

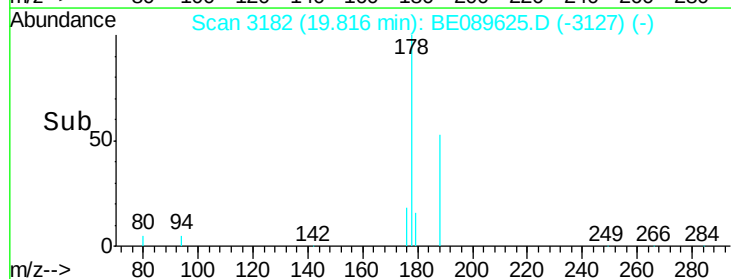
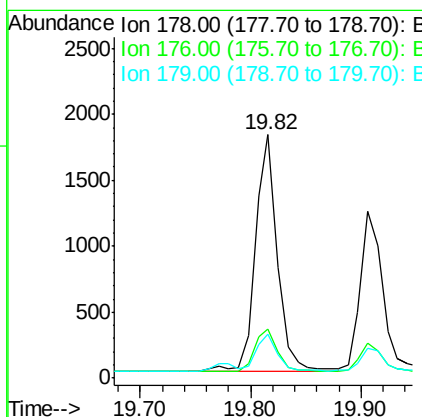
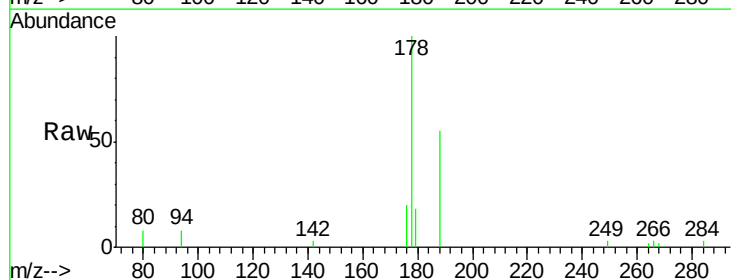
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

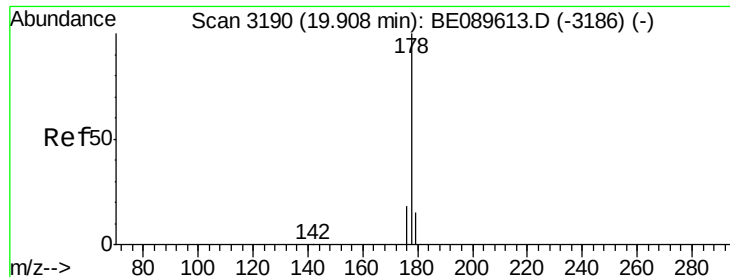
Tgt Ion: 266 Resp: 34
 Ion Ratio Lower Upper
 266 100
 268 93.3 52.6 79.0#
 264 88.3 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.08 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089625.D
 Acq: 18 Feb 2015 19:34

Tgt Ion: 178 Resp: 2507
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.1 22.7
 179 15.3 12.3 18.5





#17

Anthracene

Concen: 0.06 ng

RT: 19.91 min Scan# 3192

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

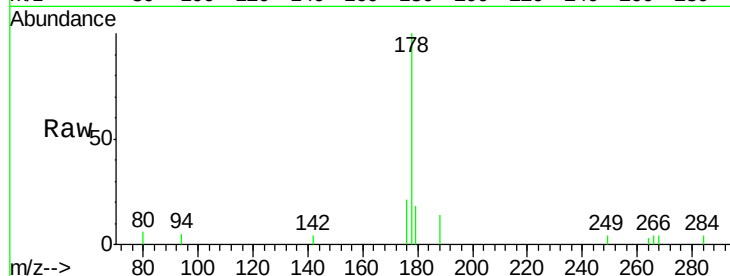
Tgt Ion:178 Resp: 1757

Ion Ratio Lower Upper

178 100

176 17.9 14.6 22.0

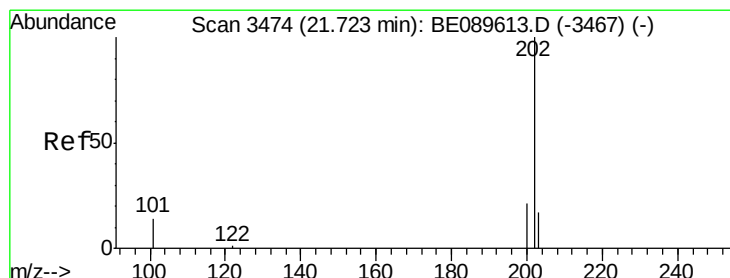
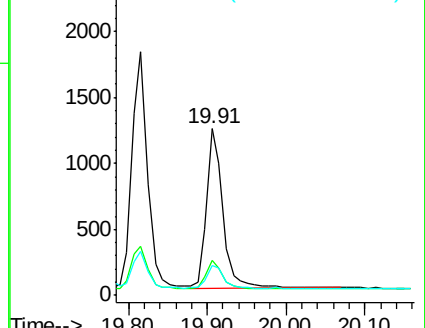
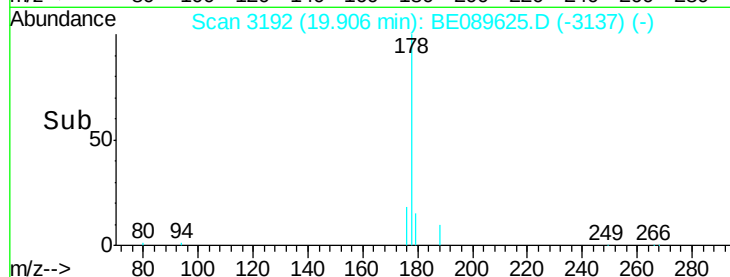
179 14.9 12.3 18.5



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: 0.06 ng

RT: 21.73 min Scan# 3478

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

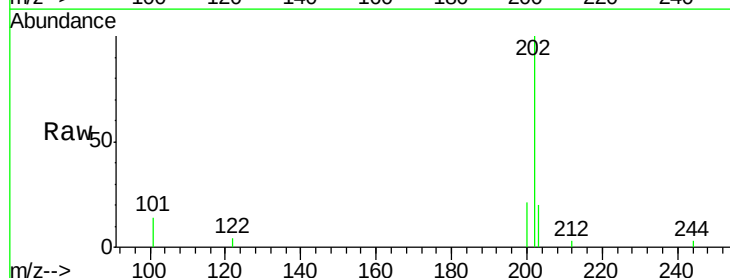
Tgt Ion:202 Resp: 1880

Ion Ratio Lower Upper

202 100

101 13.6 10.4 15.6

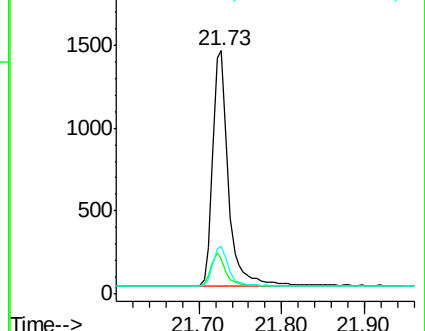
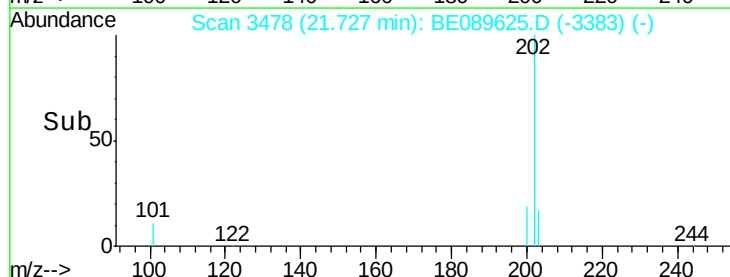
203 17.6 13.9 20.9

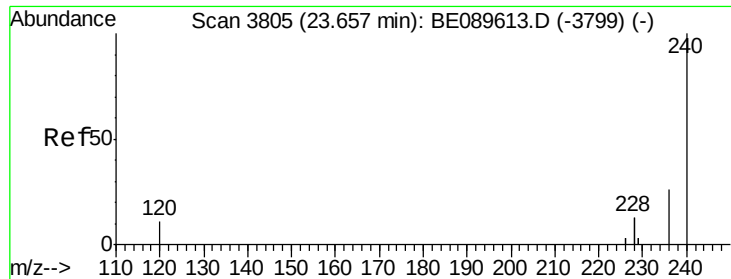


Abundance Ion 202.00 (201.70 to 202.70): E

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: 23.66 min Scan# 3808

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

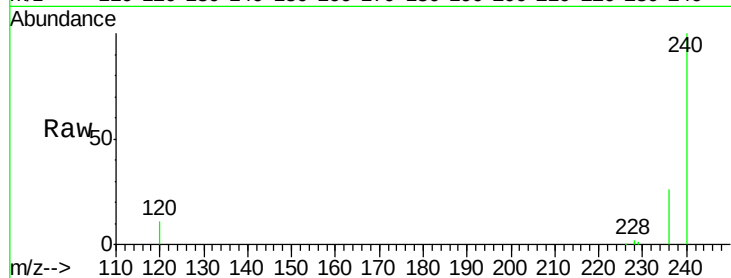
Tgt Ion:240 Resp: 124095

Ion Ratio Lower Upper

240 100

120 11.2 9.0 13.4

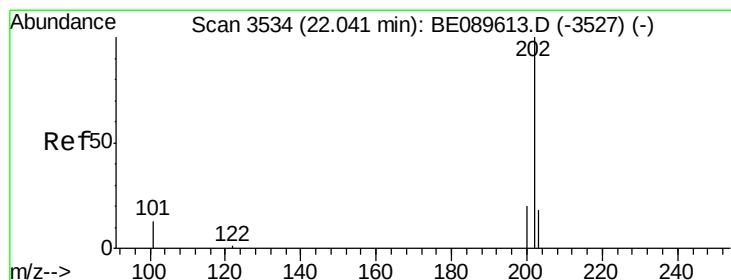
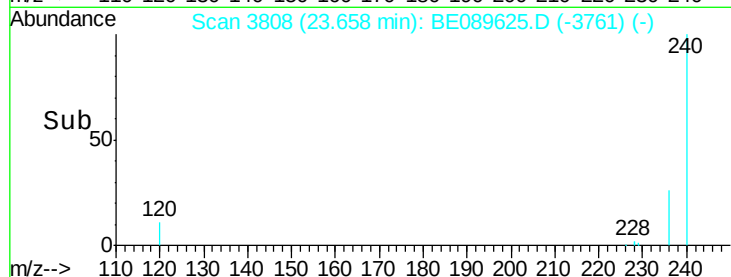
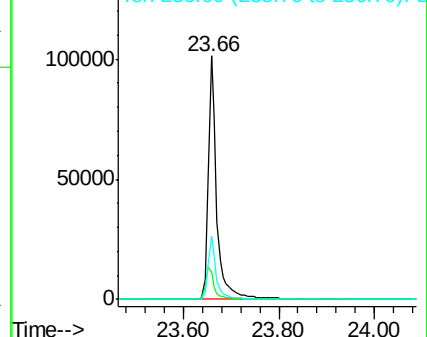
236 25.8 21.0 31.6



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: 0.07 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

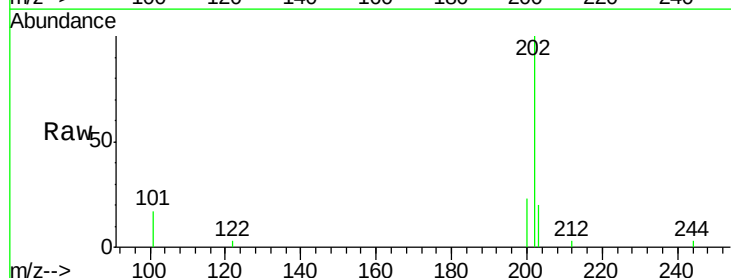
Tgt Ion:202 Resp: 1994

Ion Ratio Lower Upper

202 100

200 20.2 16.3 24.5

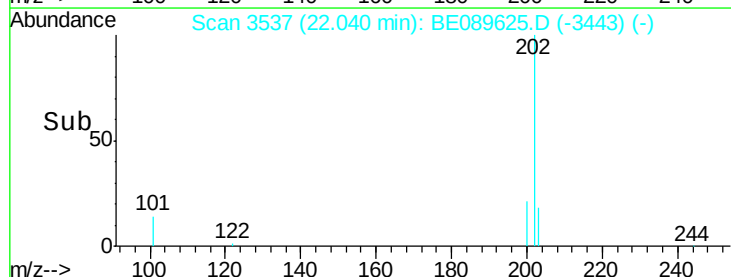
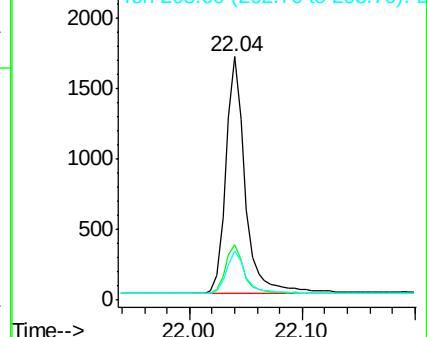
203 17.5 13.8 20.8

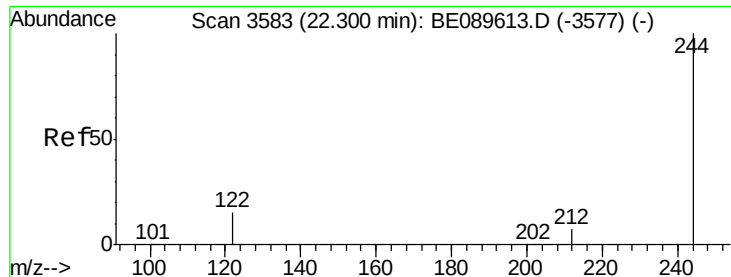


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.80 ng

RT: 22.30 min Scan# 3587

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampled :

MDL-05-W

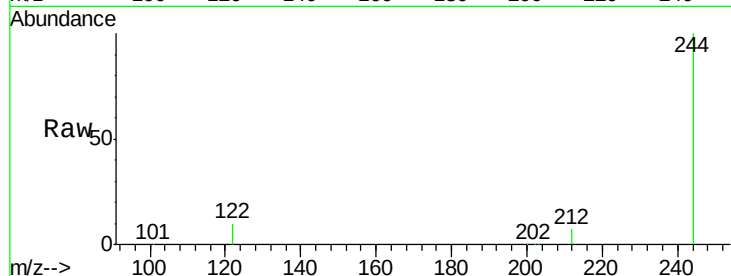
Tgt Ion:244 Resp: 210505

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

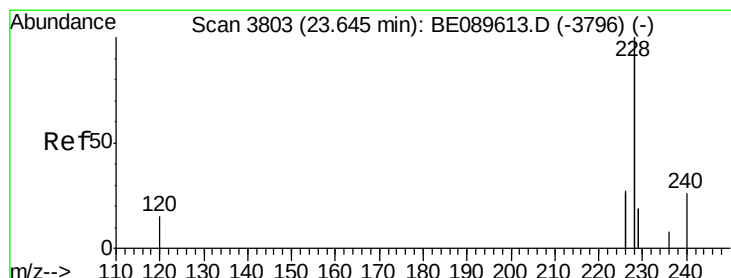
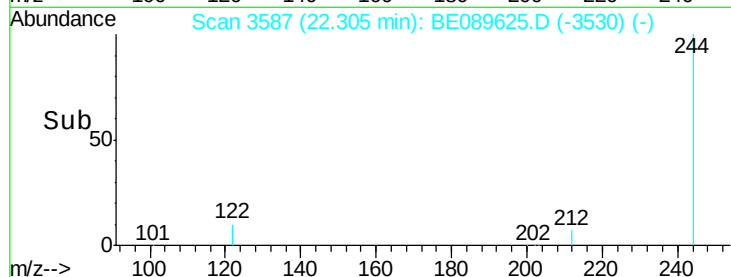
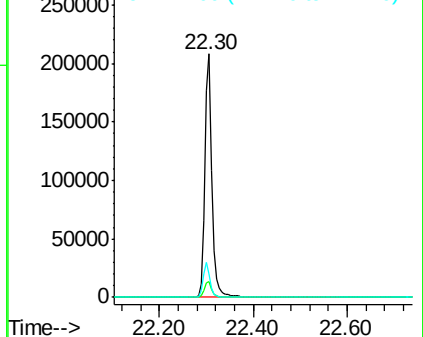
122 9.6 11.8 17.8#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.07 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

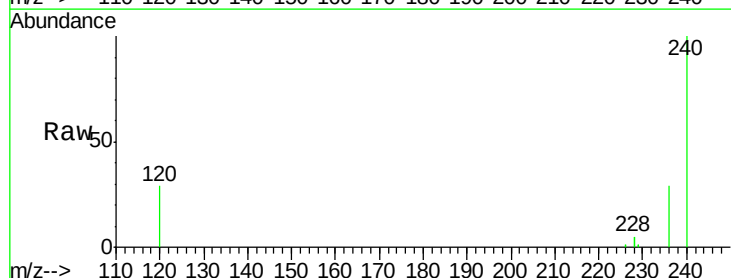
Tgt Ion:228 Resp: 7195

Ion Ratio Lower Upper

228 100

226 24.8 21.2 31.8

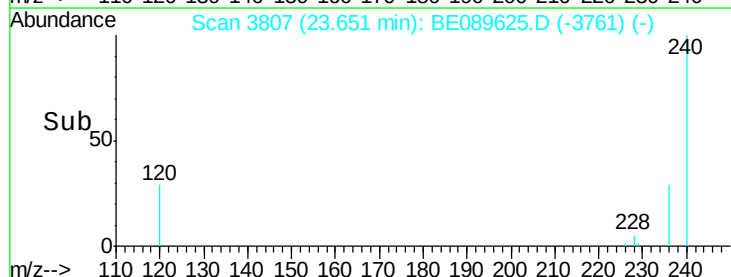
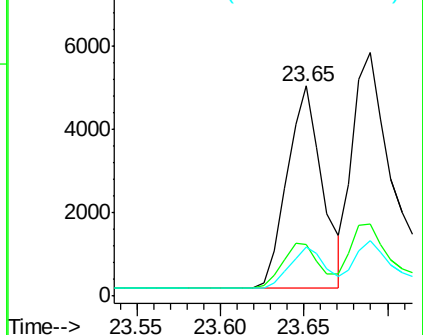
229 23.4 15.2 22.8#

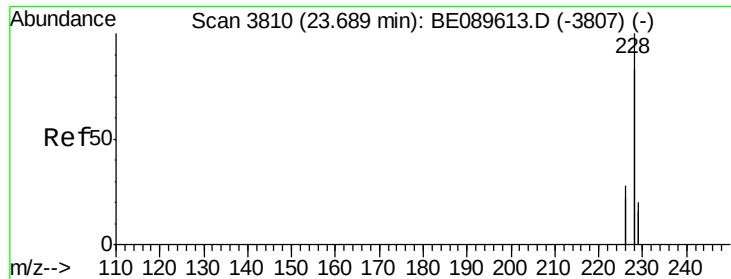


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.09 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

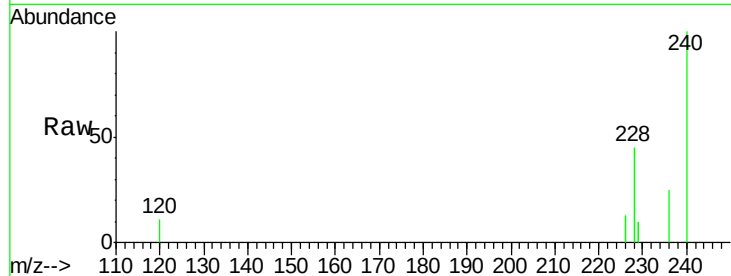
Tgt Ion:228 Resp: 11131

Ion Ratio Lower Upper

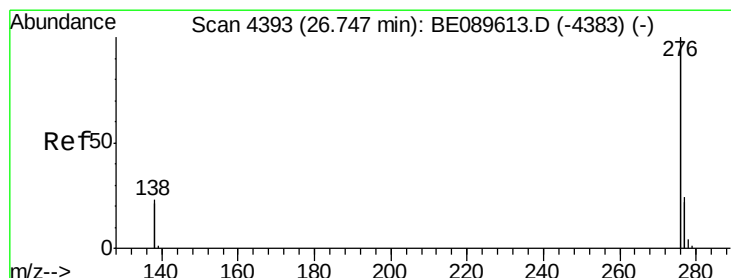
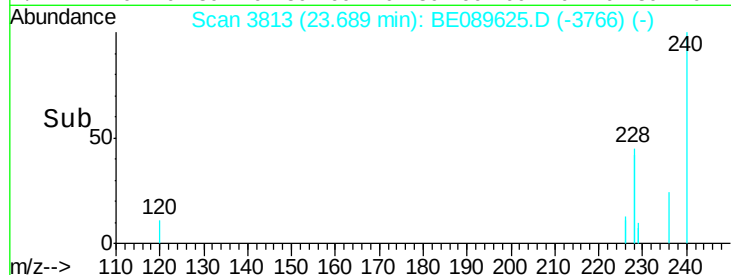
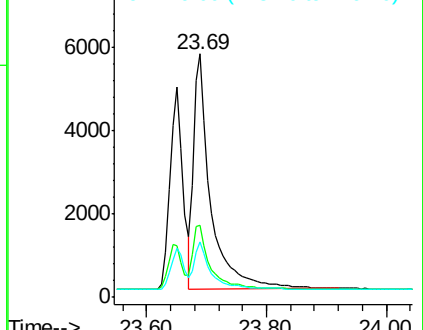
228 100

226 29.8 22.2 33.4

229 23.0 16.0 24.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.19 ng

RT: 26.75 min Scan# 4396

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

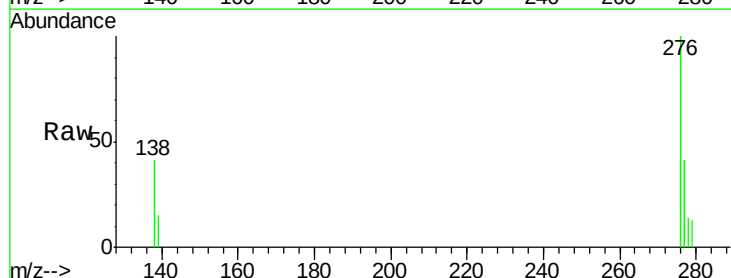
Tgt Ion:276 Resp: 2109

Ion Ratio Lower Upper

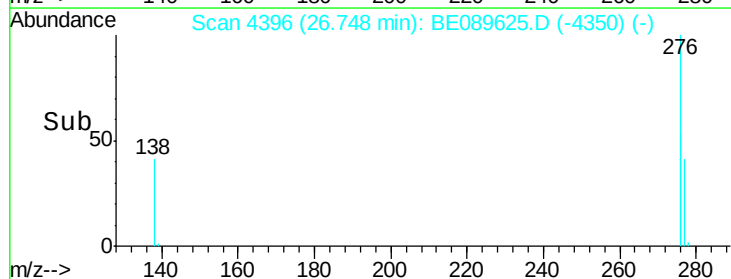
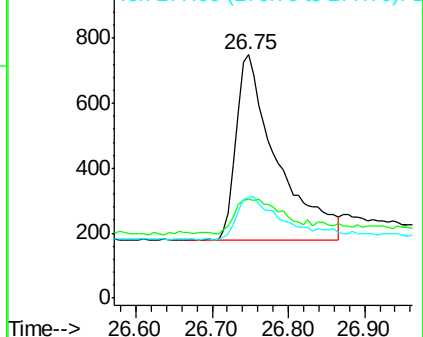
276 100

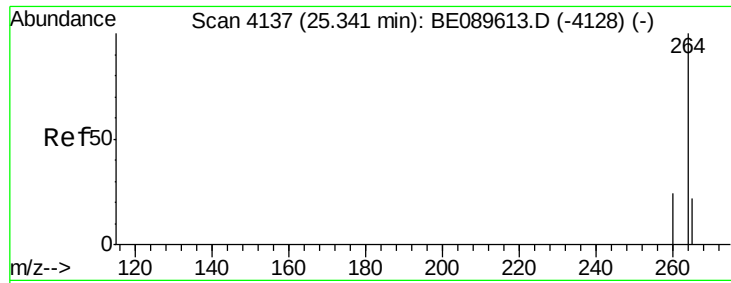
138 20.8 21.4 32.2#

277 27.2 19.9 29.9



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

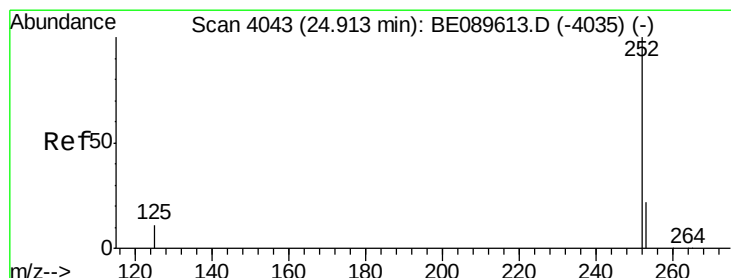
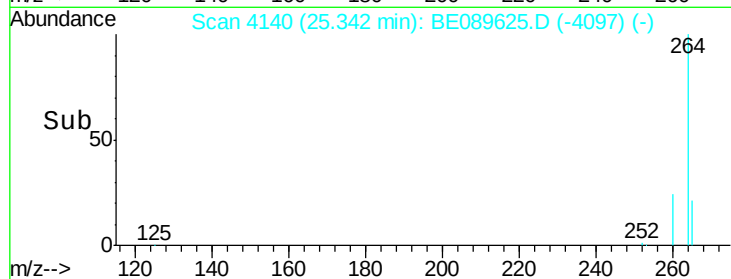
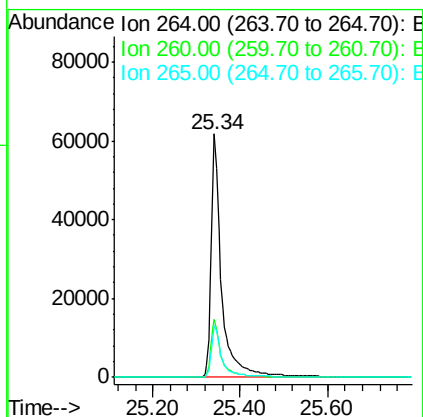
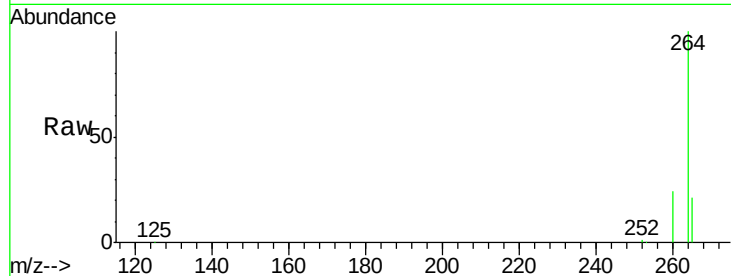




#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4140
Delta R.T. 0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

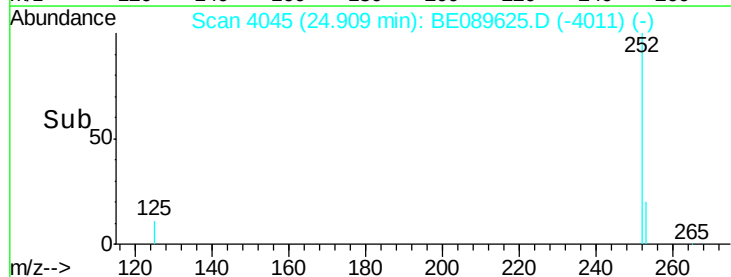
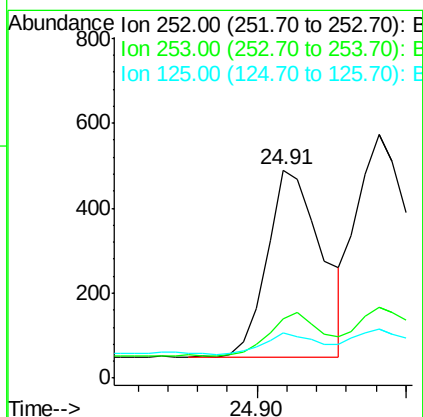
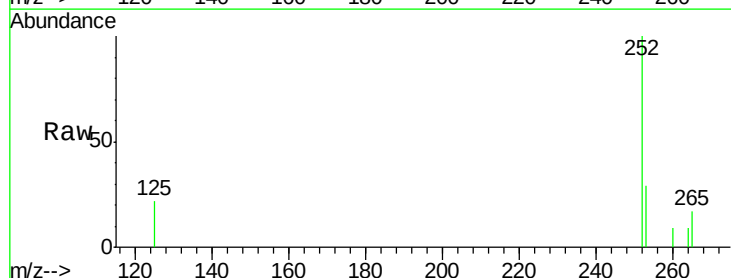
Instrument :
BNA_E
ClientSampleId :
MDL-05-W

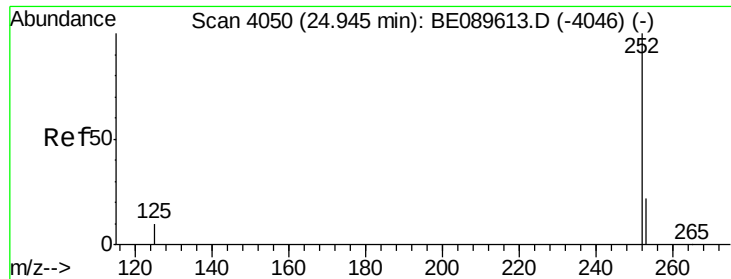
Tgt Ion: 264 Resp: 101975
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.6
265 21.4 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.29 ng
RT: 24.91 min Scan# 4045
Delta R.T. -0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Tgt Ion: 252 Resp: 559
Ion Ratio Lower Upper
252 100
253 28.6 17.6 26.4#
125 21.6 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

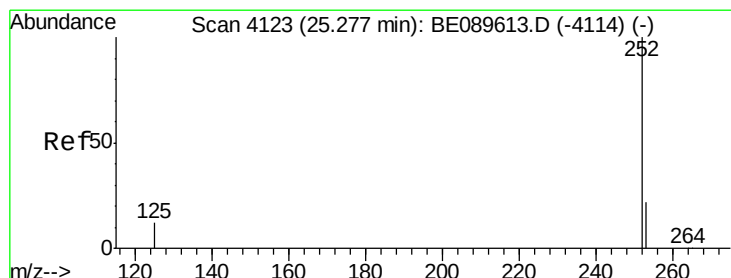
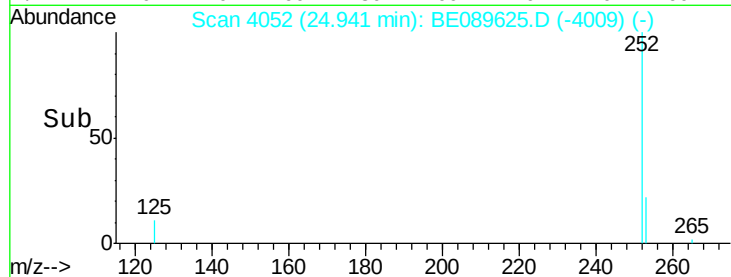
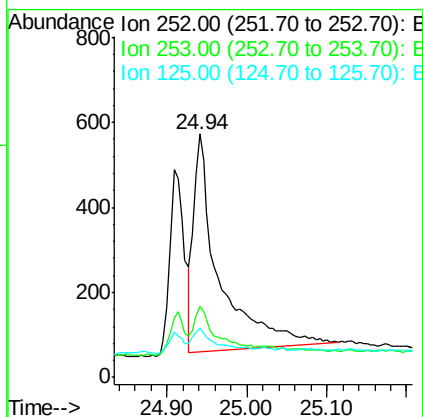
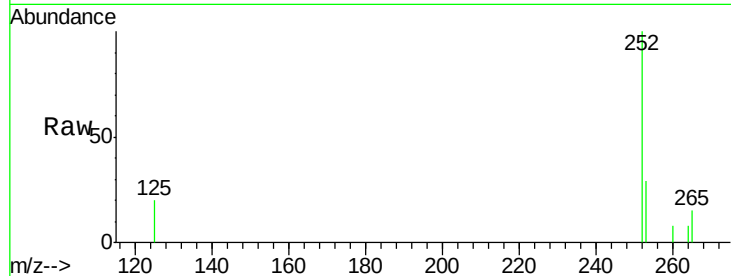
Tgt Ion:252 Resp: 1148

Ion Ratio Lower Upper

252 100

253 29.1 17.7 26.5#

125 20.2 8.8 13.2#



#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

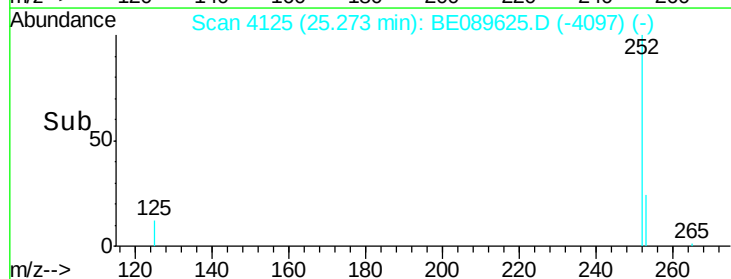
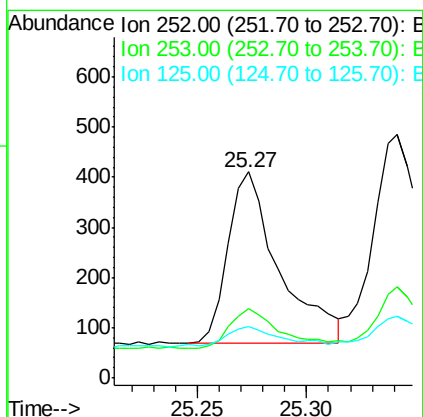
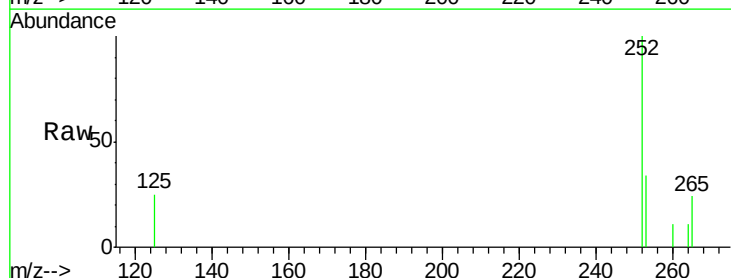
Tgt Ion:252 Resp: 556

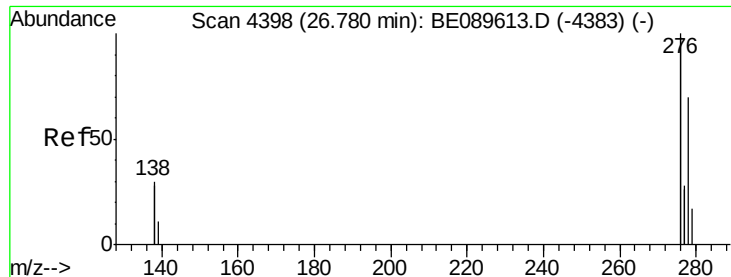
Ion Ratio Lower Upper

252 100

253 33.7 18.1 27.1#

125 25.1 9.6 14.4#





#29

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.01 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

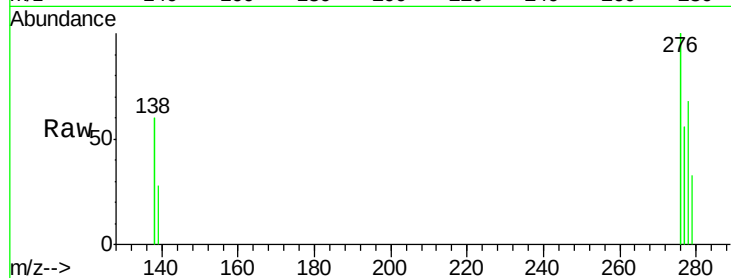
Tgt Ion: 278 Resp: 421

Ion Ratio Lower Upper

278 100

139 41.2 13.7 20.5#

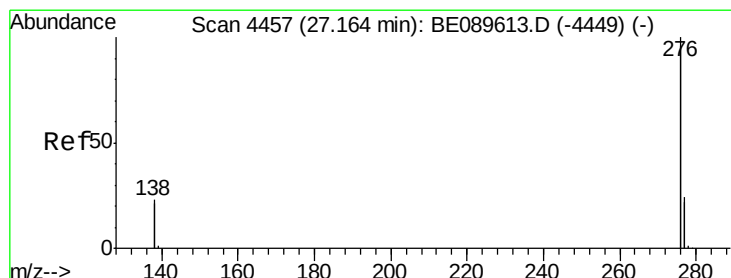
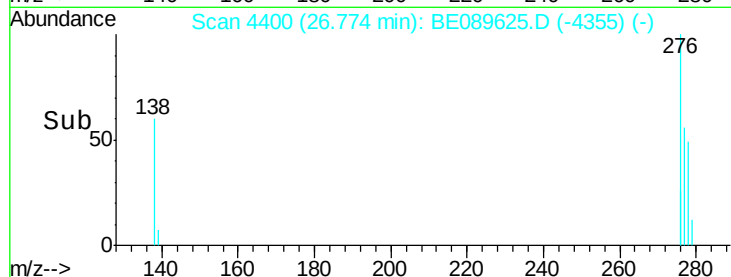
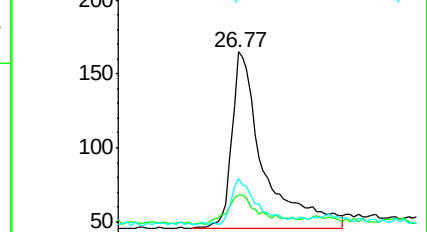
279 47.9 19.7 29.5#



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: 0.16 ng

RT: 27.16 min Scan# 4460

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

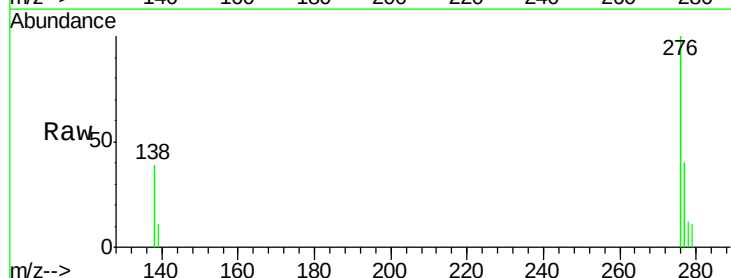
Tgt Ion: 276 Resp: 2768

Ion Ratio Lower Upper

276 100

277 39.6 19.1 28.7#

138 38.5 18.7 28.1#



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

