

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089623.D
 Acq On : 18 Feb 2015 18:13
 Operator : TP/IZ
 Sample : MDL-03-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

Quant Time: Feb 19 04:56:20 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	36583	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	144515	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	70622	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	139251	5.00	ng	0.00
19) Chrysene-d12	23.66	240	132167	5.00	ng	0.00
25) Perylene-d12	25.34	264	108987	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	62589	9.96	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	176238	9.32	ng	0.00
21) Terphenyl-d14	22.30	244	217371	11.44	ng	0.00

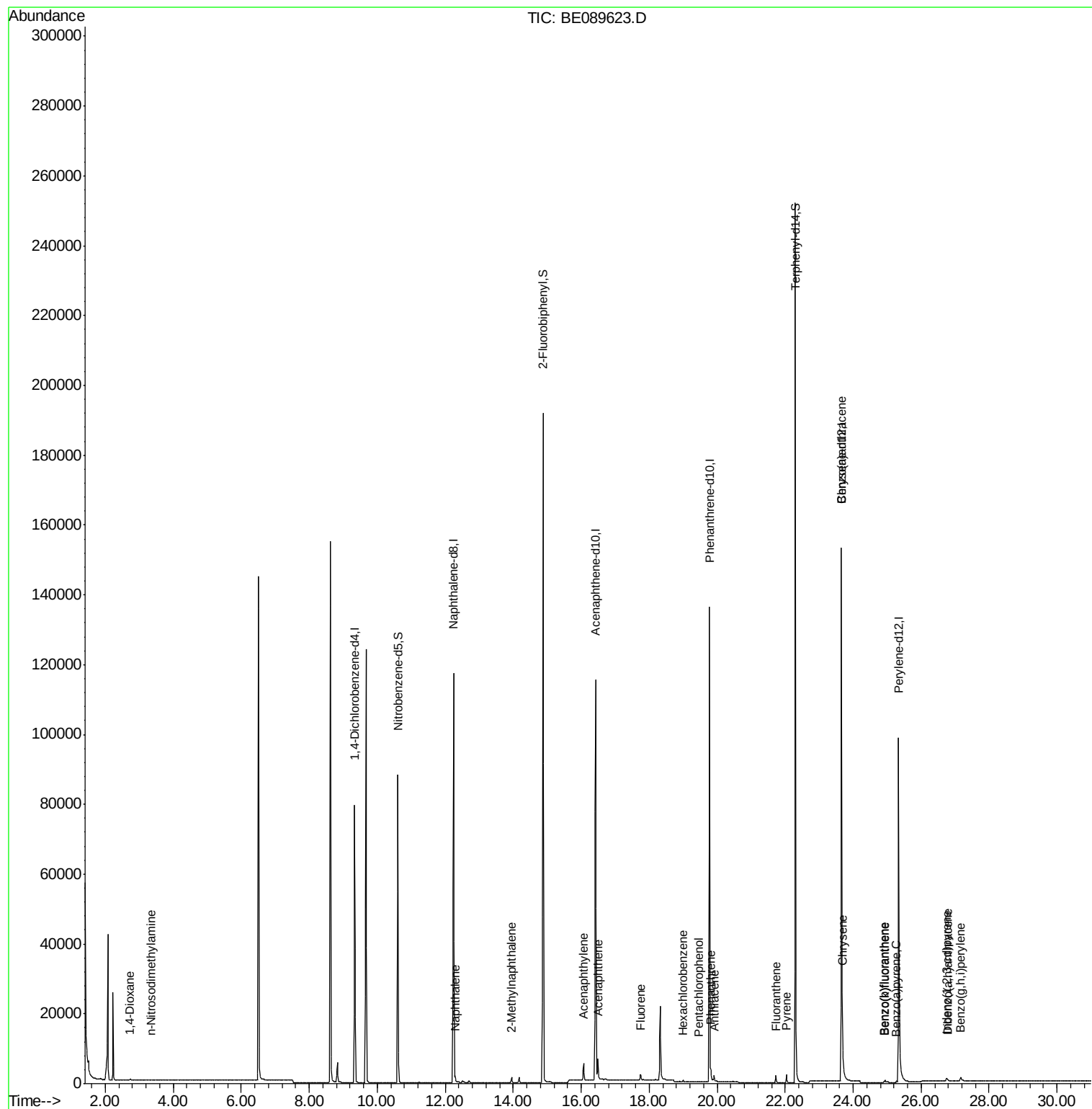
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.73	88	282	0.06	ng	# 85
3) n-Nitrosodimethylamine	3.34	42	6	0.00	ng	# 1
6) Naphthalene	12.30	128	2254	0.07	ng	# 94
7) 2-Methylnaphthalene	13.95	142	1206	0.06	ng	97
10) Acenaphthylene	16.07	152	6527	0.06	ng	99
11) Acenaphthene	16.50	154	1253	0.07	ng	90
12) Fluorene	17.74	166	1369	0.06	ng	99
14) Hexachlorobenzene	19.00	284	418	0.07	ng	95
15) Pentachlorophenol	19.45	266	37	0.01	ng	# 68
16) Phenanthrene	19.82	178	2409	0.07	ng	98
17) Anthracene	19.91	178	1607	0.06	ng	99
18) Fluoranthene	21.72	202	1739	0.05	ng	99
20) Pyrene	22.04	202	1897	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	6850	0.06	ng	# 93
23) Chrysene	23.69	228	10813	0.08	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	2259	0.19	ng	# 93
26) Benzo(b)fluoranthene	24.91	252	535	0.29	ng	# 76
27) Benzo(k)fluoranthene	24.94	252	1112	0.04	ng	# 83
28) Benzo(a)pyrene	25.27	252	540	0.26	ng	# 77
29) Dibenzo(a,h)anthracene	26.77	278	335	0.24	ng	# 51
30) Benzo(g,h,i)perylene	27.16	276	3023	0.16	ng	# 72

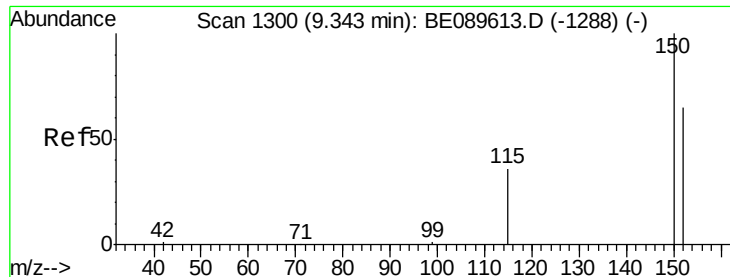
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

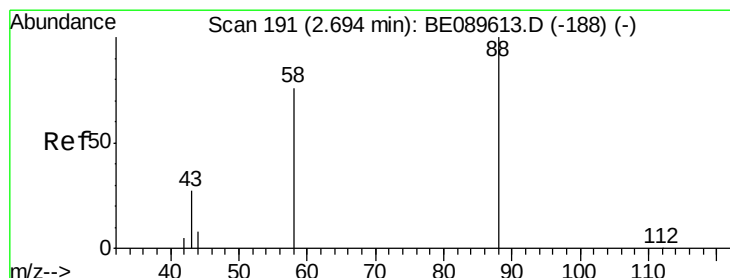
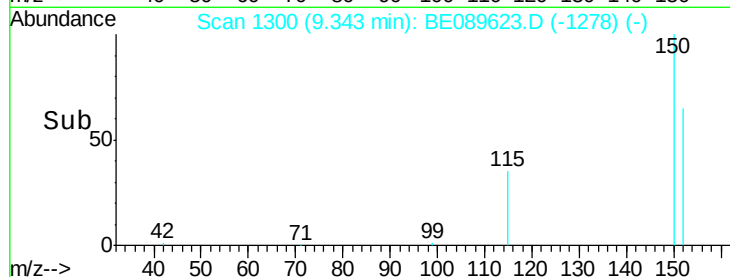
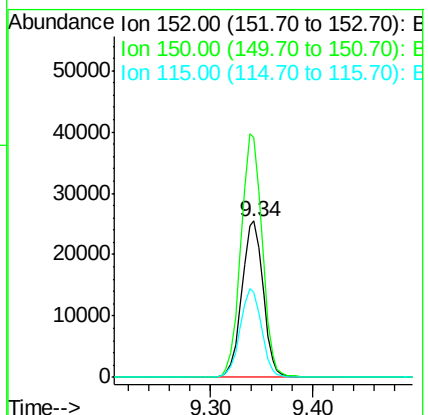
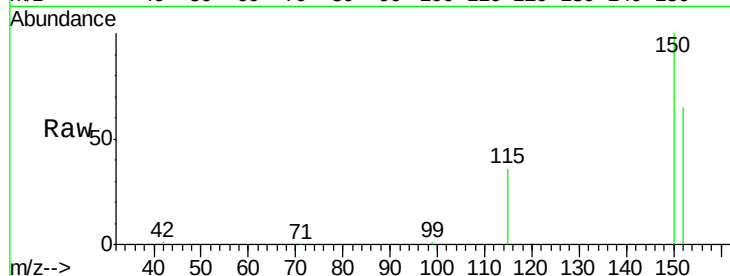
Tgt Ion:152 Resp: 36583

Ion Ratio Lower Upper

152 100

150 153.5 122.4 183.6

115 54.6 44.2 66.2



#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

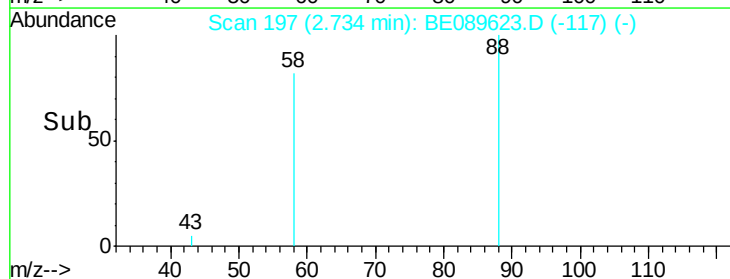
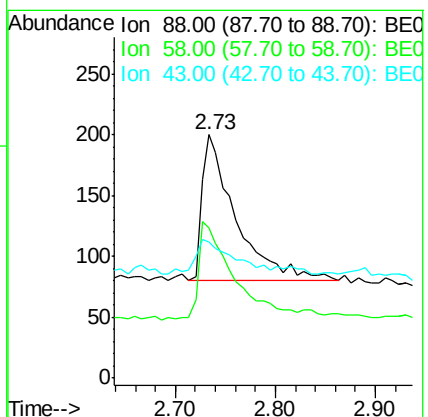
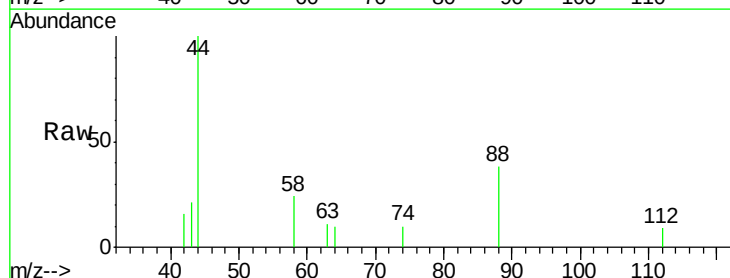
Tgt Ion: 88 Resp: 282

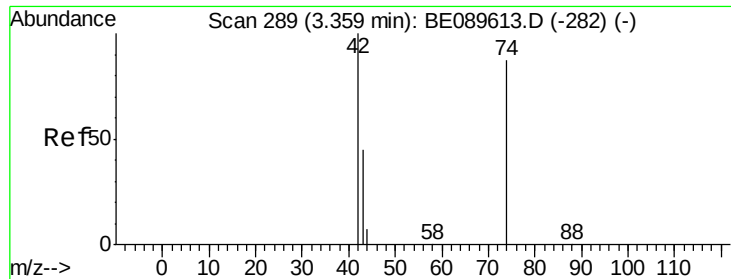
Ion Ratio Lower Upper

88 100

58 67.0 54.6 81.8

43 0.0 20.6 30.8#



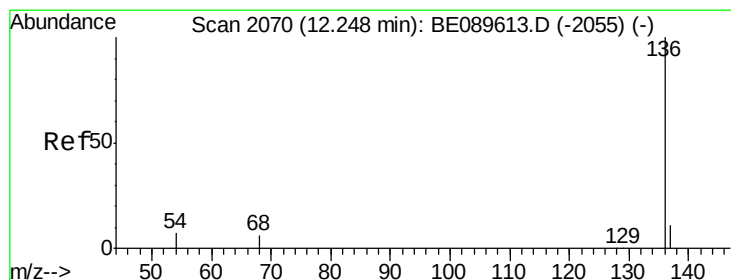
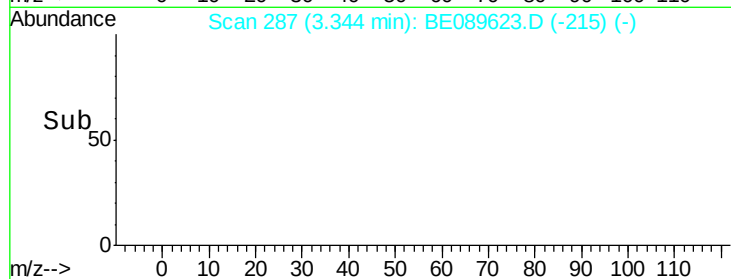
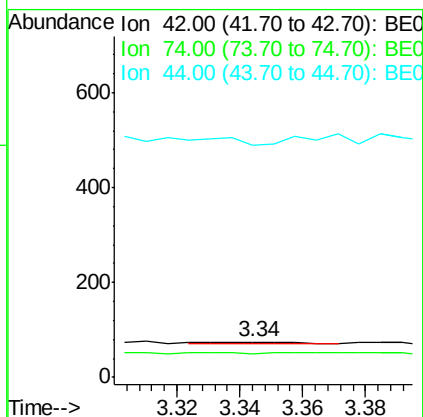
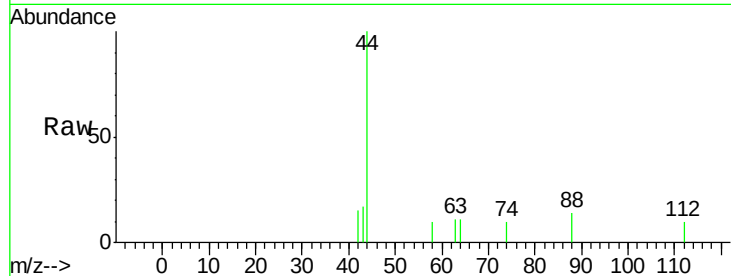


#3

n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.34 min Scan# 287
 Delta R.T. -0.01 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

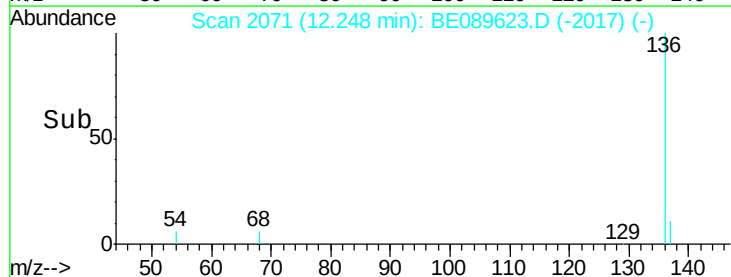
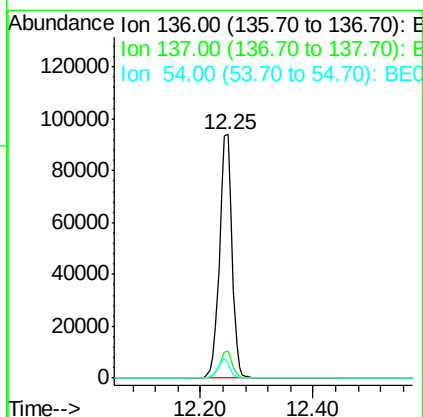
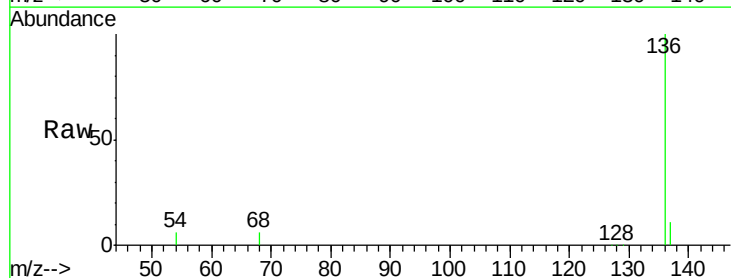
Tgt Ion: 42 Resp: 6
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 0.0 4.5 6.7#

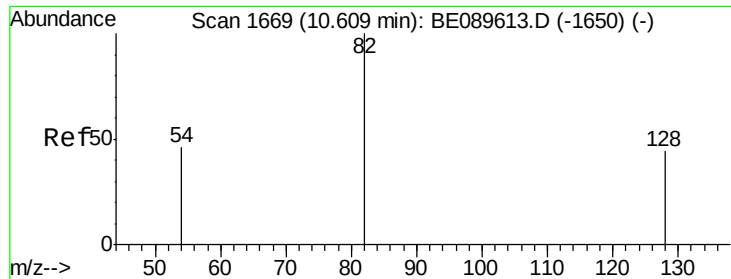


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

Tgt Ion: 136 Resp: 144515
 Ion Ratio Lower Upper
 136 100
 137 11.2 8.9 13.3
 54 6.2 5.3 7.9





#5

Nitrobenzene-d5

Concen: 9.96 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

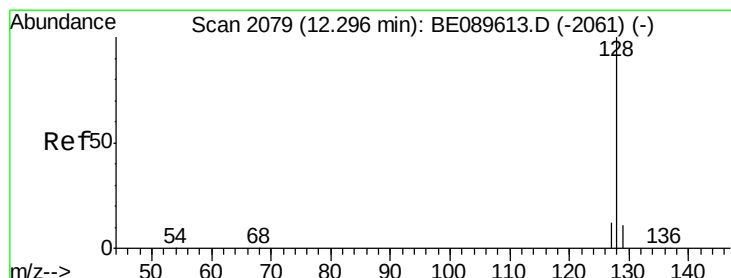
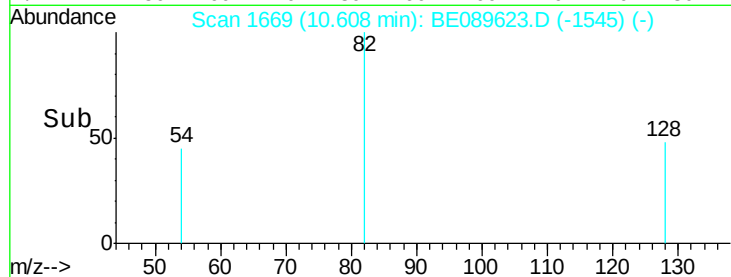
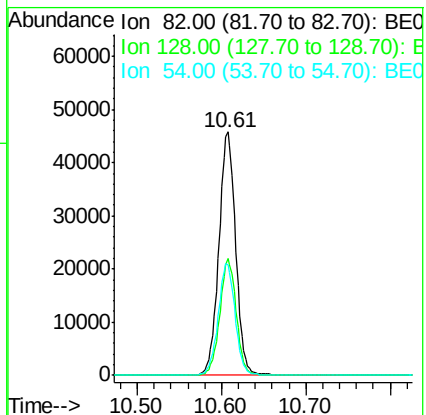
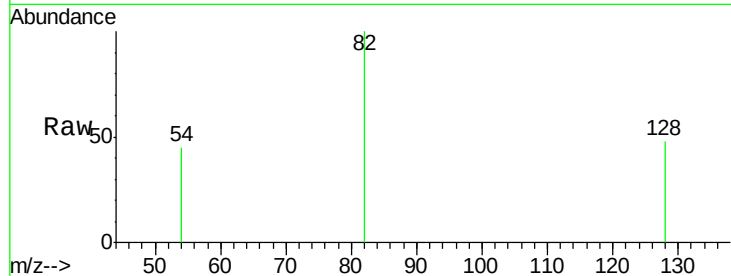
Tgt Ion: 82 Resp: 62589

Ion Ratio Lower Upper

82 100

128 47.8 35.5 53.3

54 45.3 37.5 56.3



#6

Naphthalene

Concen: 0.07 ng

RT: 12.30 min Scan# 2080

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

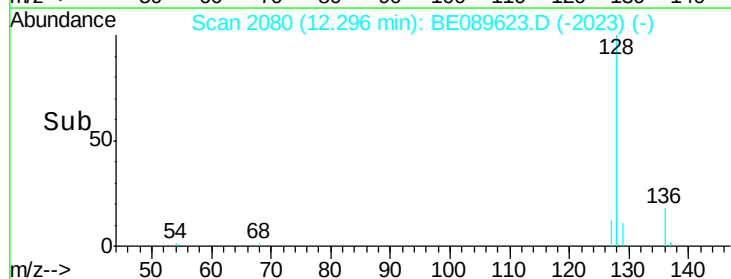
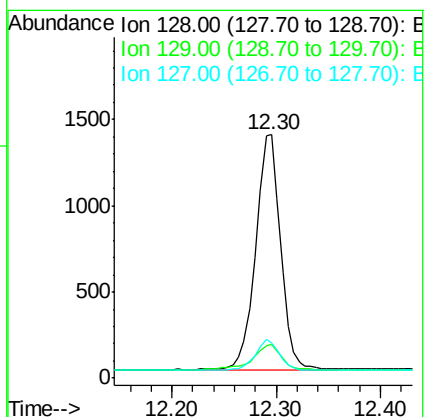
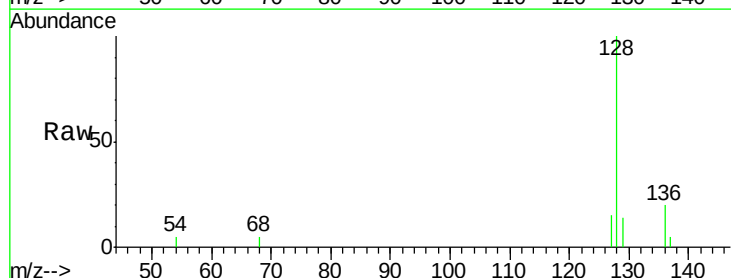
Tgt Ion: 128 Resp: 2254

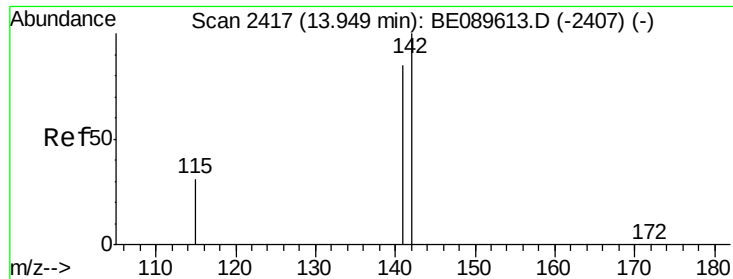
Ion Ratio Lower Upper

128 100

129 13.7 8.9 13.3#

127 14.6 9.8 14.8





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

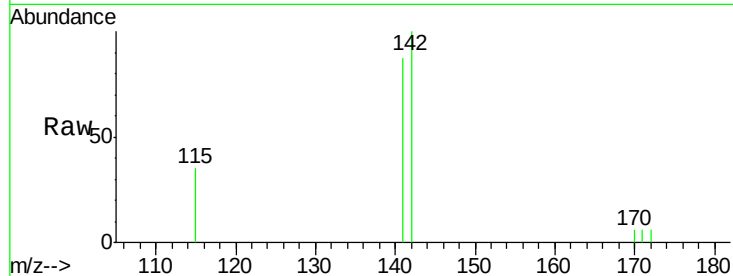
Tgt Ion:142 Resp: 1206

Ion Ratio Lower Upper

142 100

141 86.6 68.3 102.5

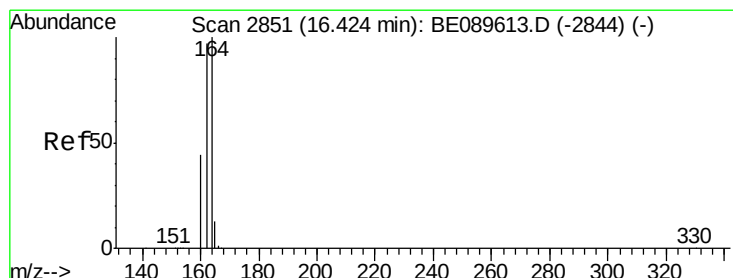
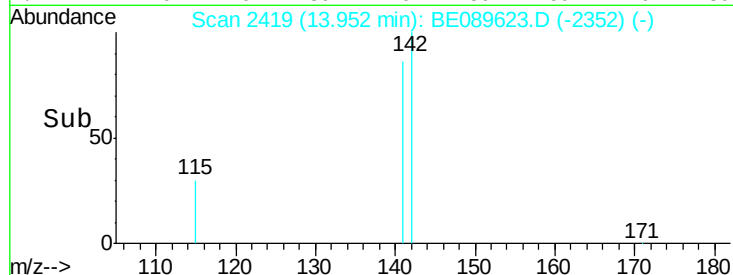
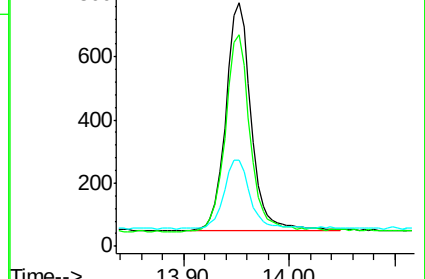
115 35.1 25.1 37.7



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: BE089623.D

Acq: 18 Feb 2015 18:13

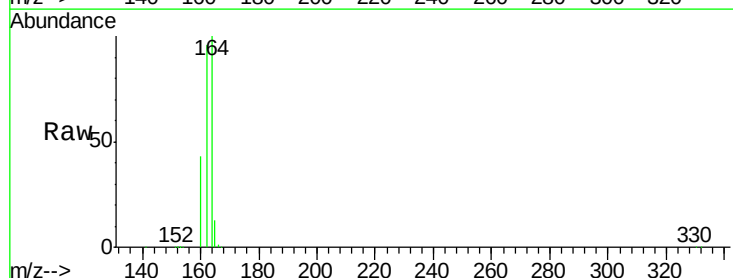
Tgt Ion:164 Resp: 70622

Ion Ratio Lower Upper

164 100

162 95.6 77.5 116.3

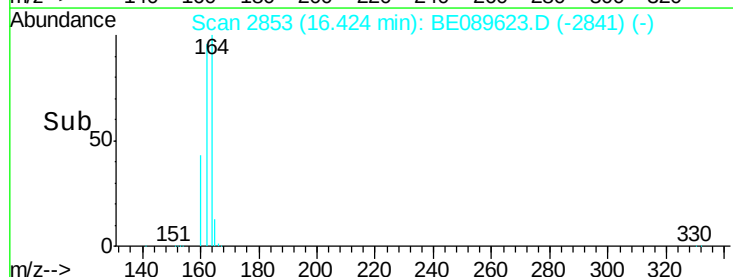
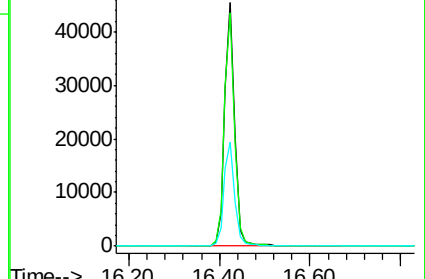
160 42.6 35.5 53.3

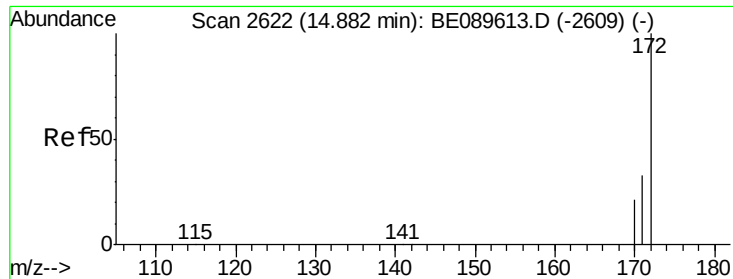


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

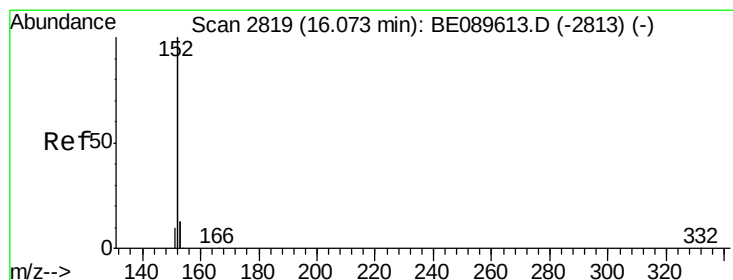
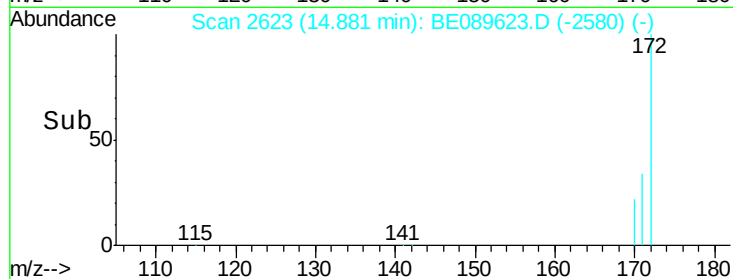
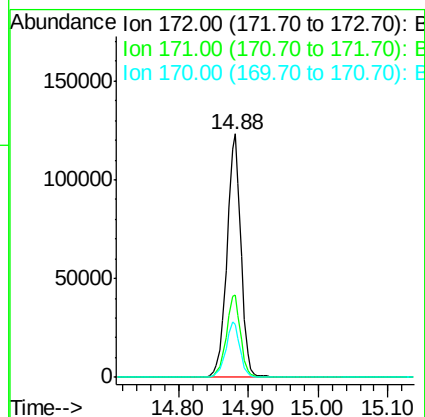
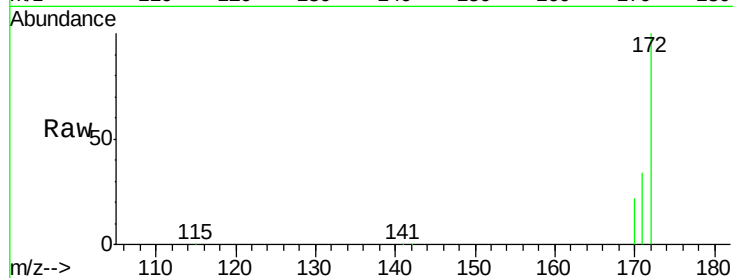




#9
 2-Fluorobiphenyl
 Concen: 9.32 ng
 RT: 14.88 min Scan# 2623
 Delta R.T. -0.00 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

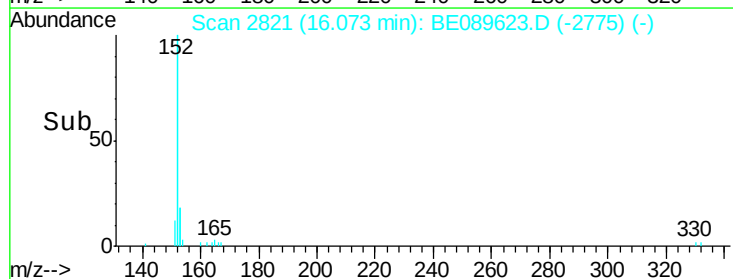
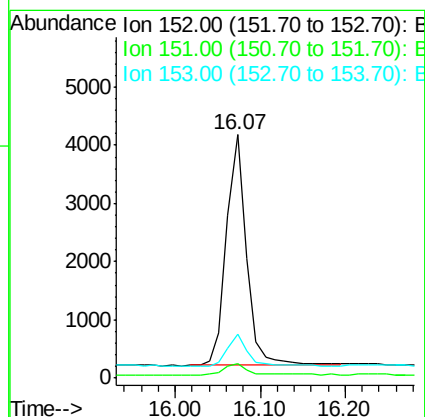
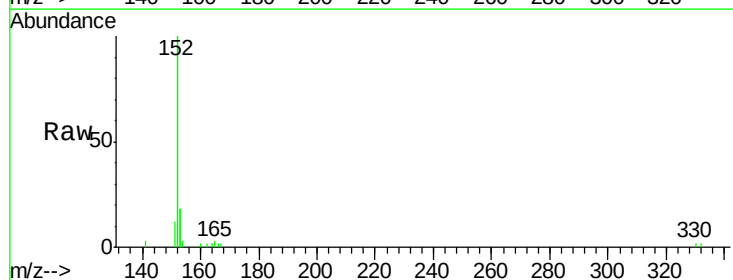
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

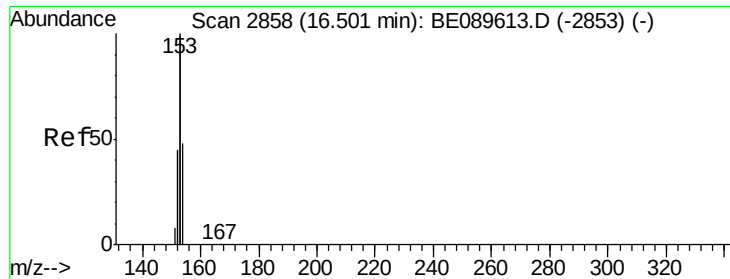
Tgt Ion:172 Resp: 176238
 Ion Ratio Lower Upper
 172 100
 171 33.7 26.9 40.3
 170 21.5 17.4 26.0



#10
 Acenaphthylene
 Concen: 0.06 ng
 RT: 16.07 min Scan# 2821
 Delta R.T. 0.00 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

Tgt Ion:152 Resp: 6527
 Ion Ratio Lower Upper
 152 100
 151 5.2 3.9 5.9
 153 13.7 10.5 15.7





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.50 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

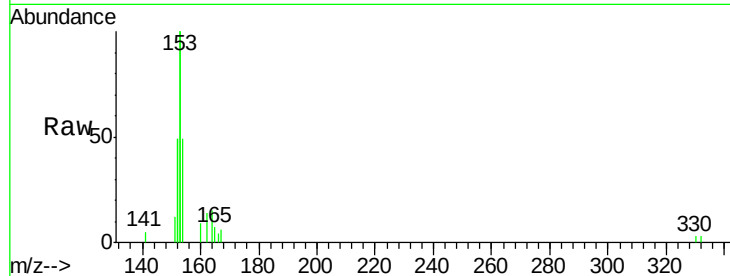
Tgt Ion:154 Resp: 1253

Ion Ratio Lower Upper

154 100

153 447.2 348.9 523.3

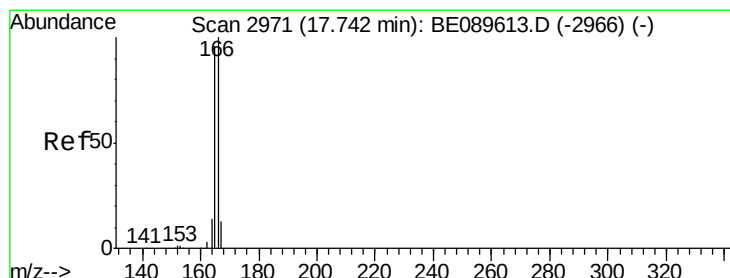
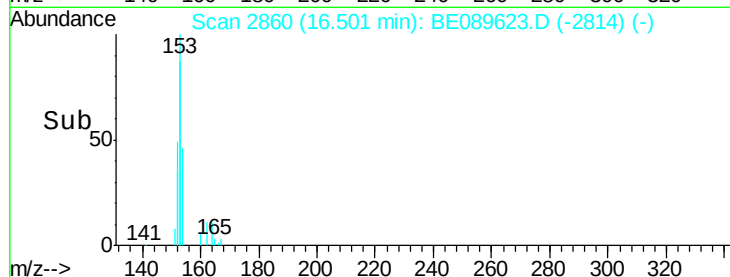
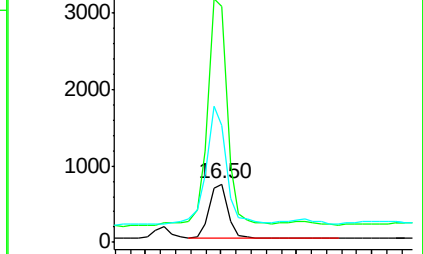
152 242.5 166.6 249.8



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: 0.06 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

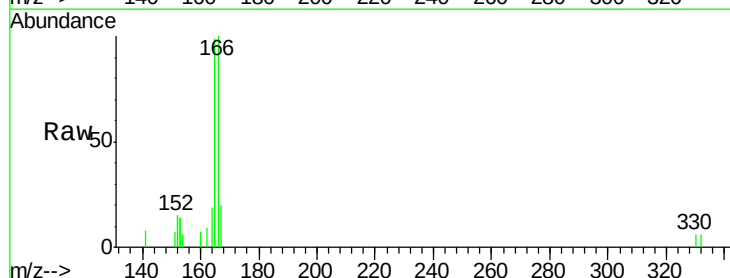
Tgt Ion:166 Resp: 1369

Ion Ratio Lower Upper

166 100

165 92.5 74.7 112.1

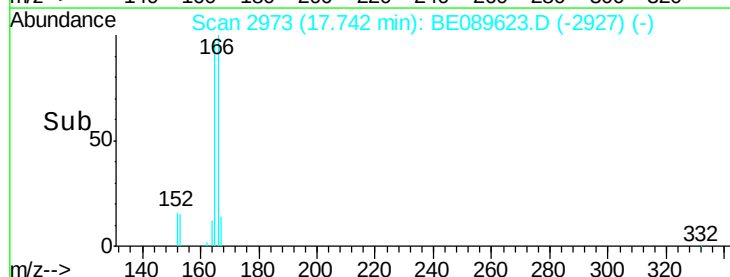
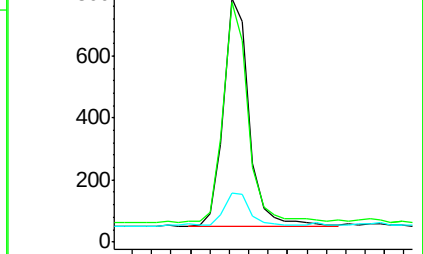
167 15.0 10.5 15.7

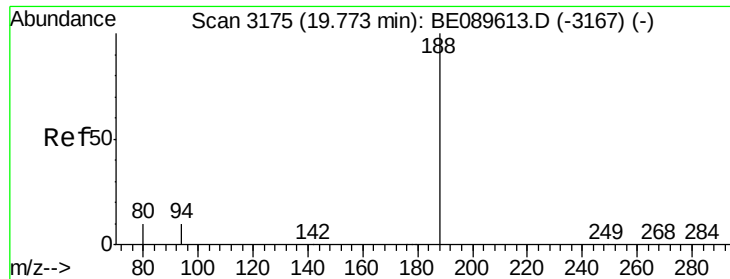


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampled :

MDL-03-W

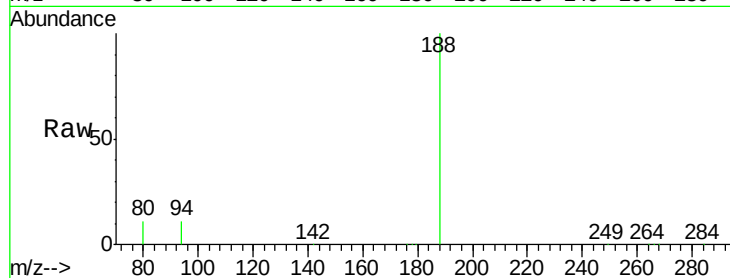
Tgt Ion:188 Resp: 139251

Ion Ratio Lower Upper

188 100

94 10.8 8.2 12.4

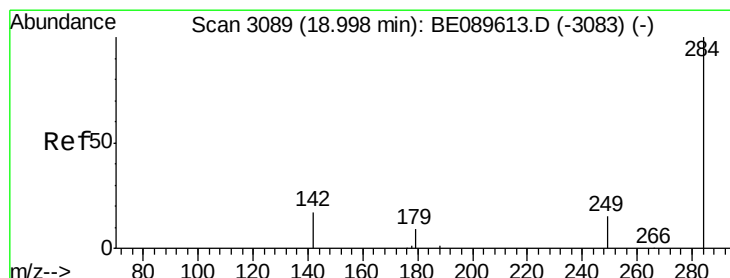
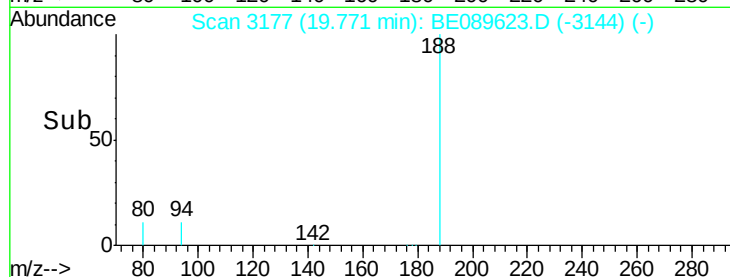
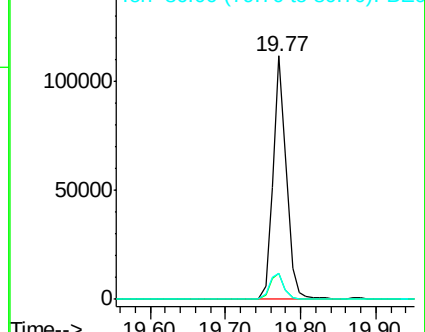
80 10.8 8.1 12.1



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: 0.07 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

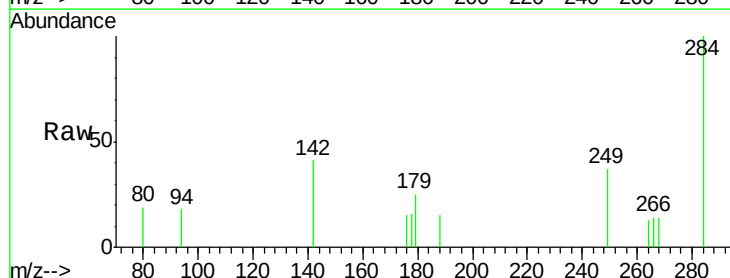
Tgt Ion:284 Resp: 418

Ion Ratio Lower Upper

284 100

142 45.0 32.3 48.5

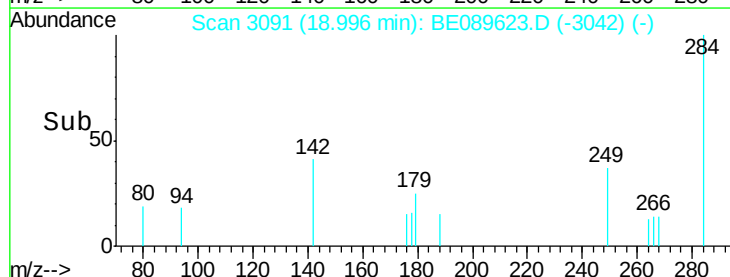
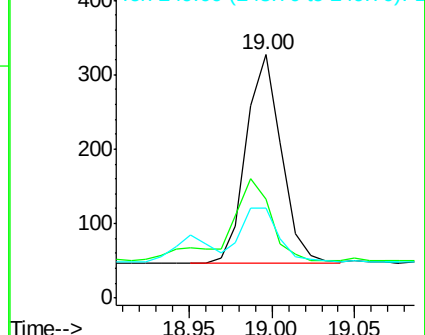
249 28.2 22.3 33.5

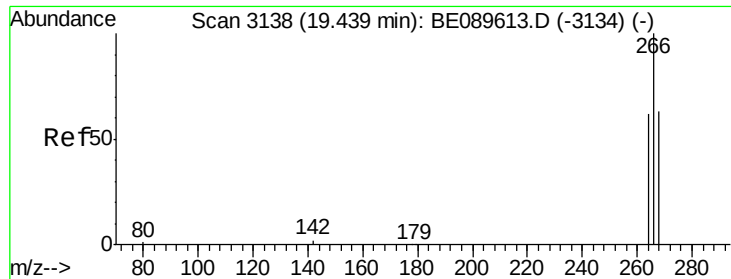


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

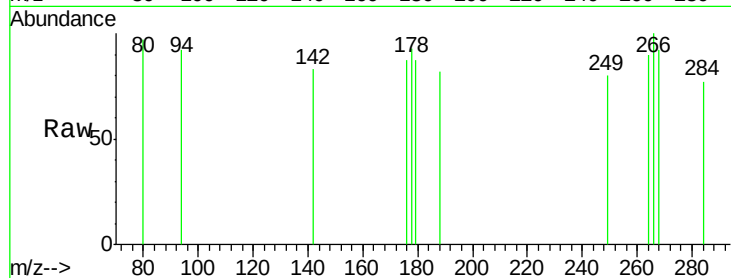




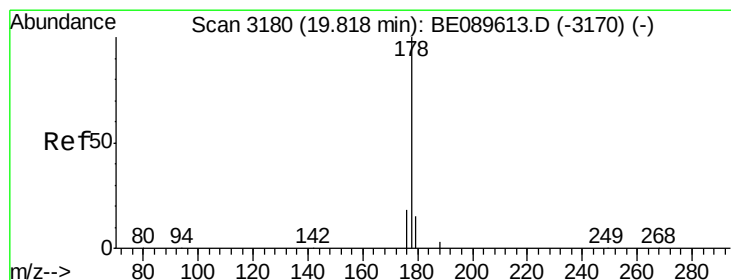
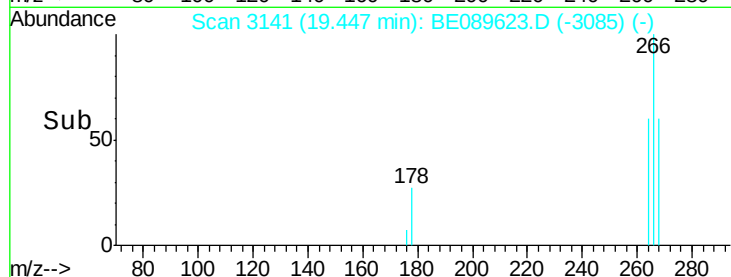
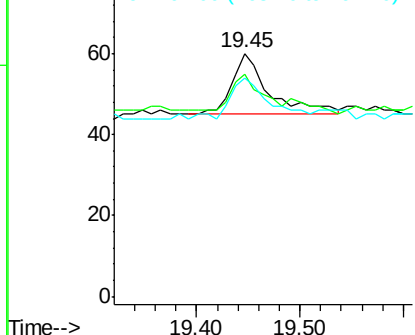
#15
 Pentachlorophenol
 Concen: 0.01 ng
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

Tgt Ion: 266 Resp: 37
 Ion Ratio Lower Upper
 266 100
 268 91.7 52.6 79.0#
 264 90.0 51.8 77.8#

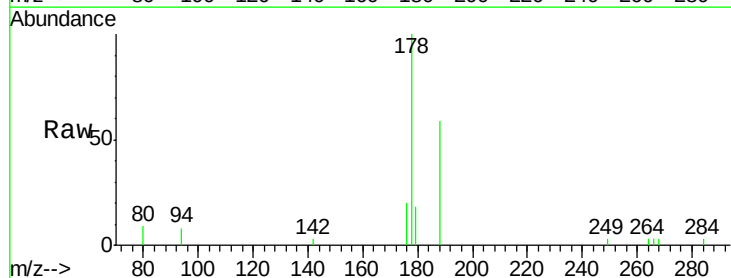


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

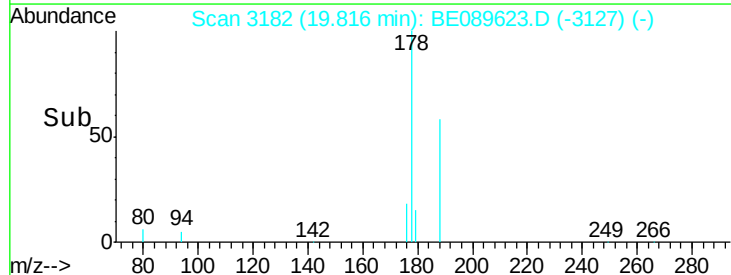
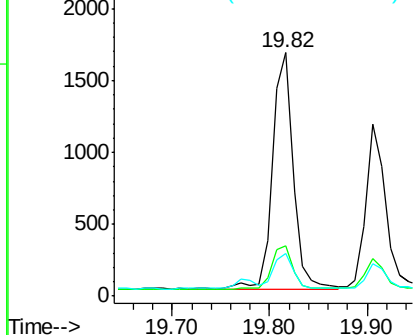


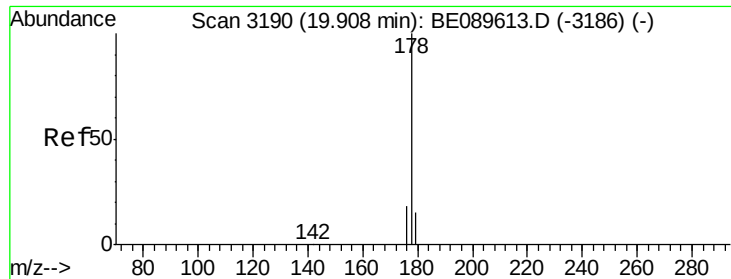
#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

Tgt Ion: 178 Resp: 2409
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.1 22.7
 179 14.2 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





#17

Anthracene

Concen: 0.06 ng

RT: 19.91 min Scan# 3192

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

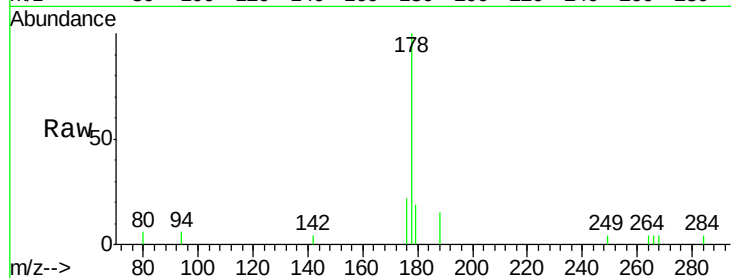
Tgt Ion:178 Resp: 1607

Ion Ratio Lower Upper

178 100

176 19.0 14.6 22.0

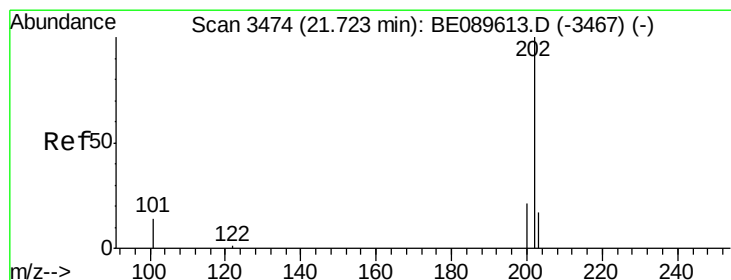
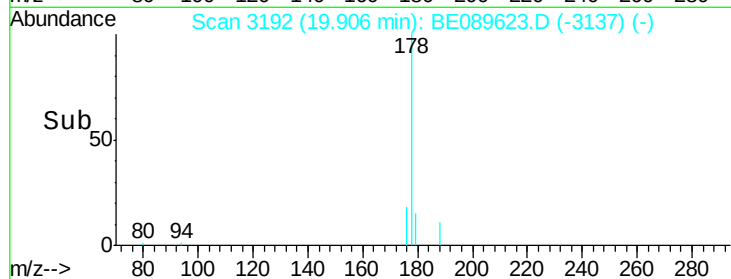
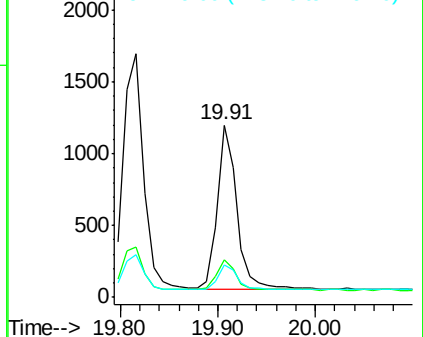
179 15.0 12.3 18.5



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: 0.05 ng

RT: 21.72 min Scan# 3477

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

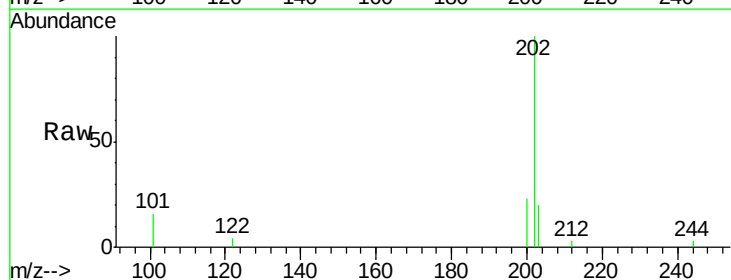
Tgt Ion:202 Resp: 1739

Ion Ratio Lower Upper

202 100

101 12.5 10.4 15.6

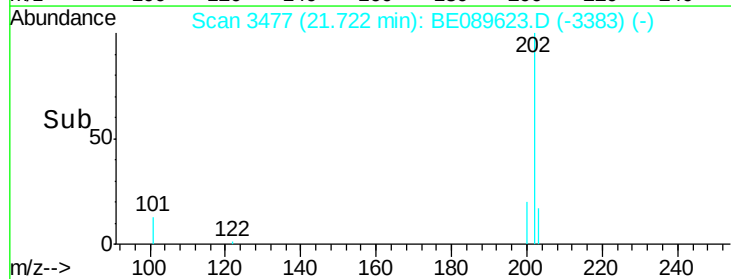
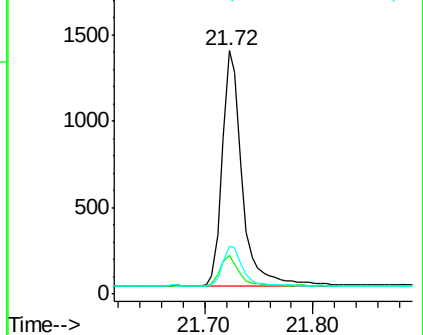
203 17.0 13.9 20.9

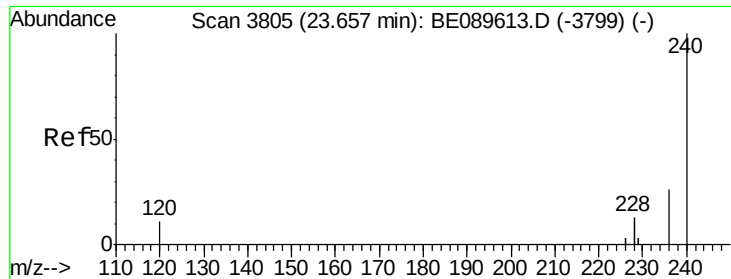


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

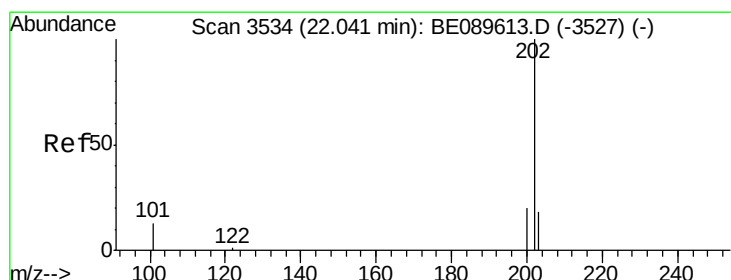
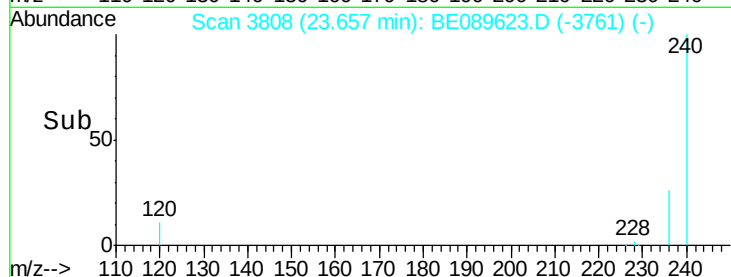
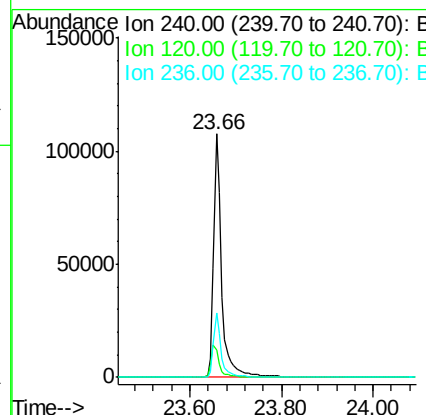
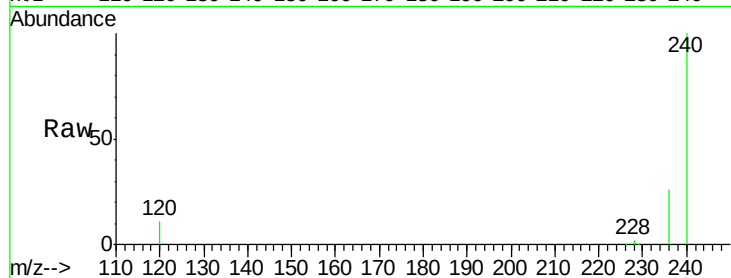
BNA_E

ClientSampleId :

MDL-03-W

Tgt Ion:240 Resp: 132167

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.0	13.4
236	26.2	21.0	31.6



#20

Pyrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3537

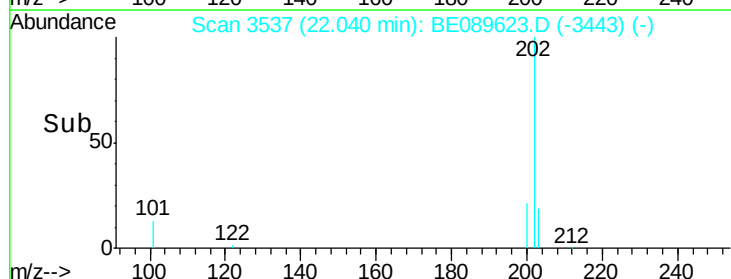
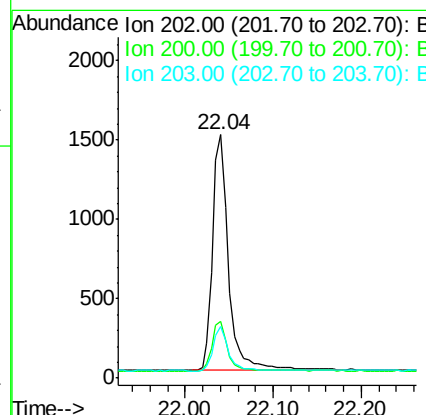
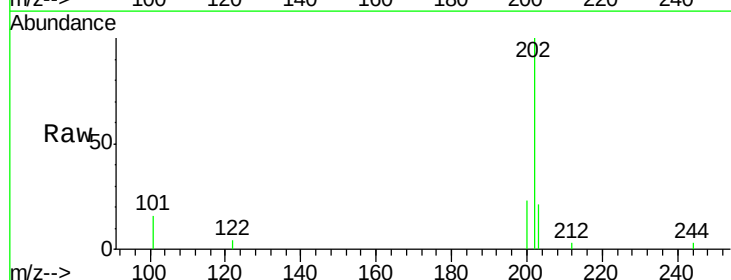
Delta R.T. -0.00 min

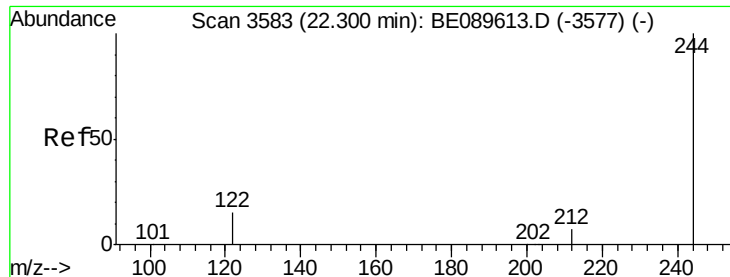
Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Tgt Ion:202 Resp: 1897

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.3	24.5
203	17.6	13.8	20.8





#21

Terphenyl-d14

Concen: 11.44 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampled :

MDL-03-W

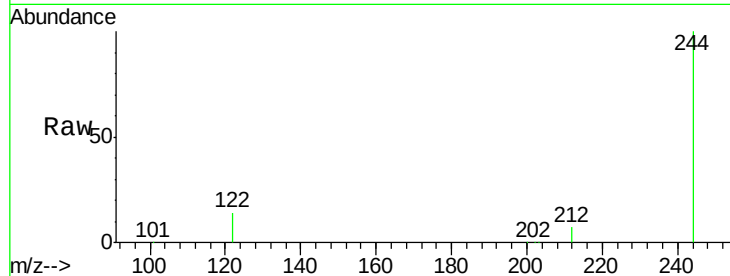
Tgt Ion:244 Resp: 217371

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

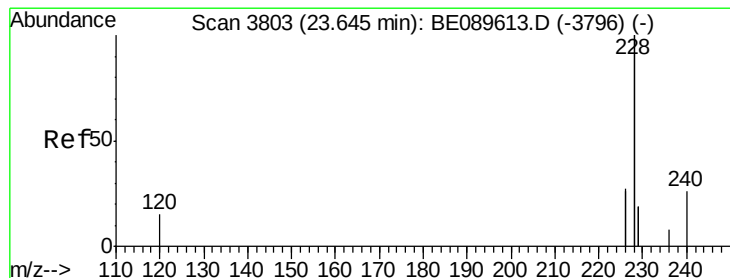
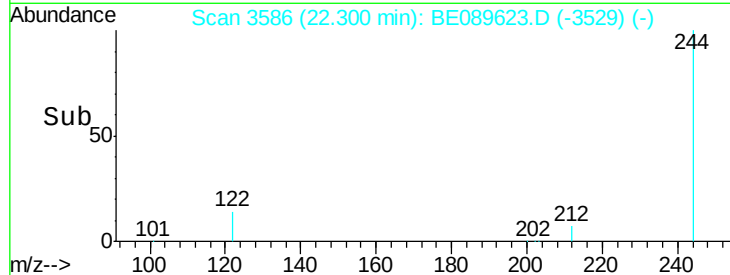
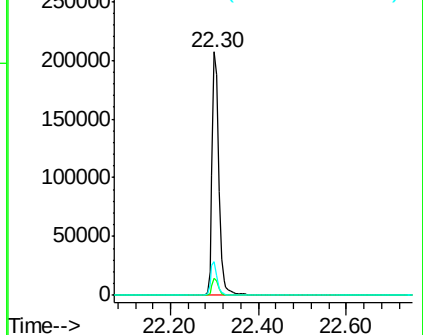
122 14.1 11.8 17.8



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: 0.06 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

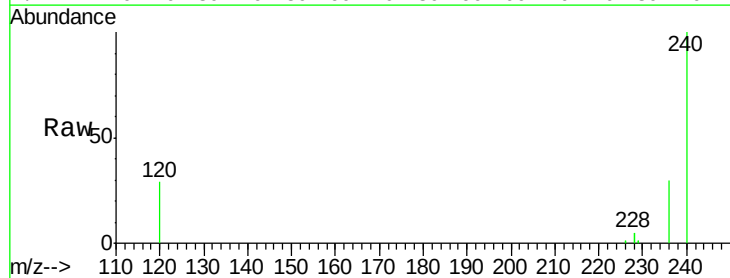
Tgt Ion:228 Resp: 6850

Ion Ratio Lower Upper

228 100

226 23.8 21.2 31.8

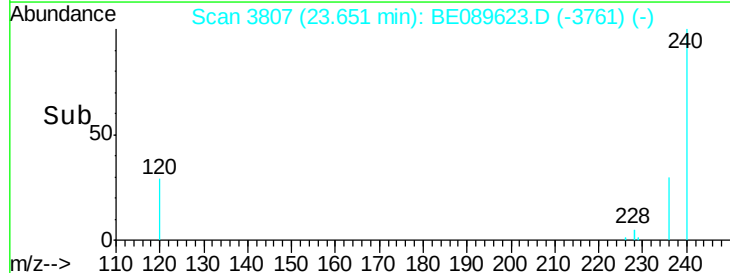
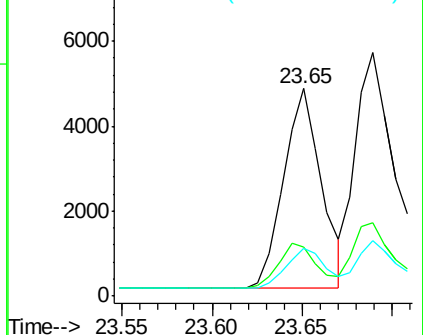
229 23.3 15.2 22.8#

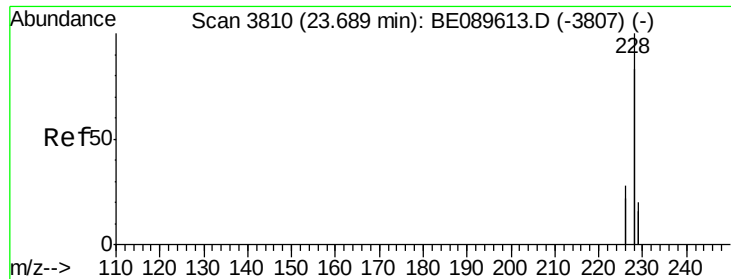


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.08 ng

RT: 23.69 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

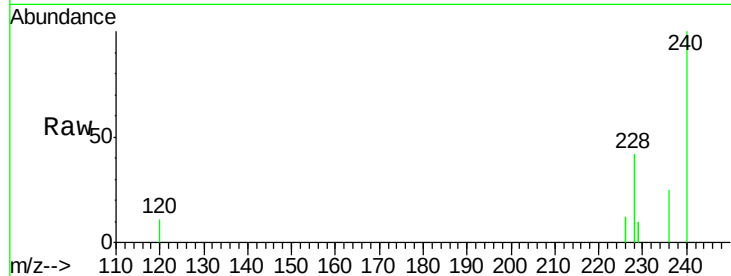
Tgt Ion:228 Resp: 10813

Ion Ratio Lower Upper

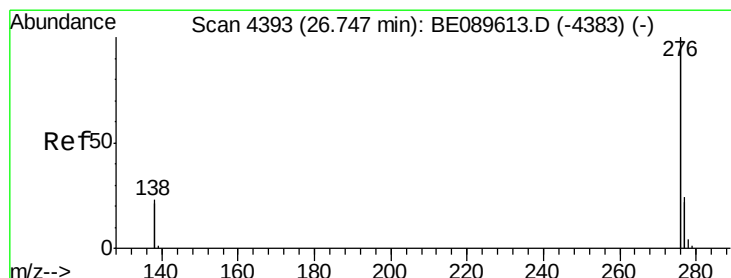
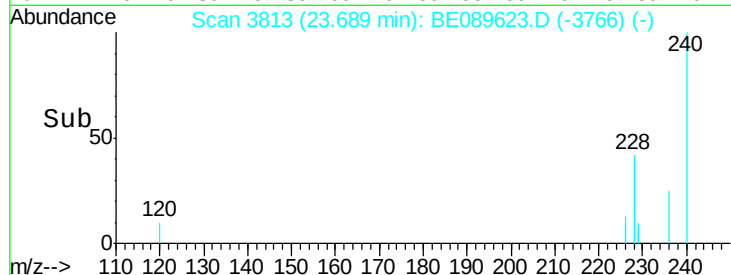
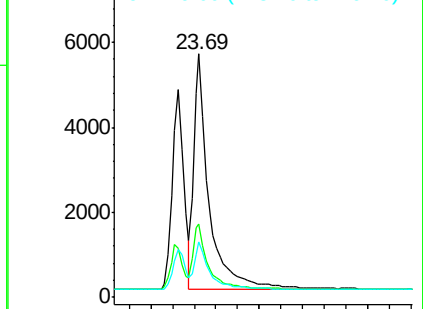
228 100

226 29.9 22.2 33.4

229 22.9 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: BE089623.D

Acq: 18 Feb 2015 18:13

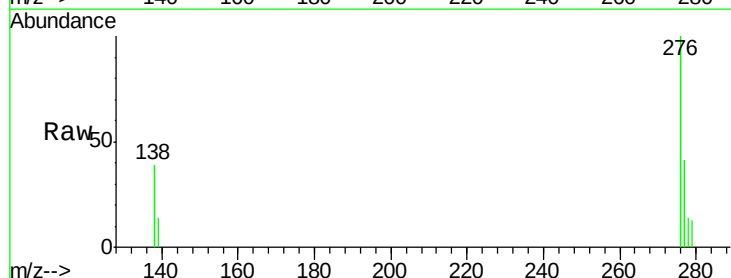
Tgt Ion:276 Resp: 2259

Ion Ratio Lower Upper

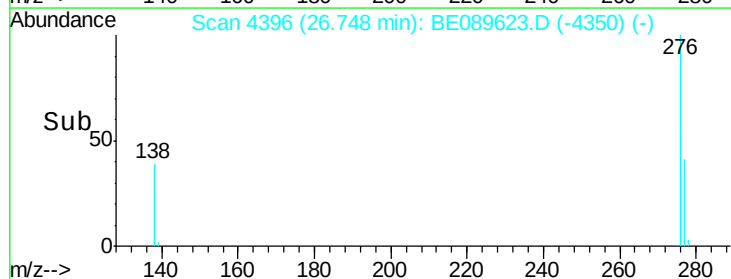
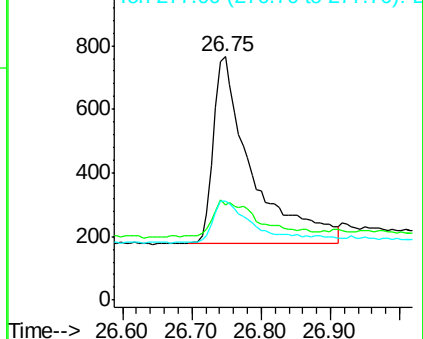
276 100

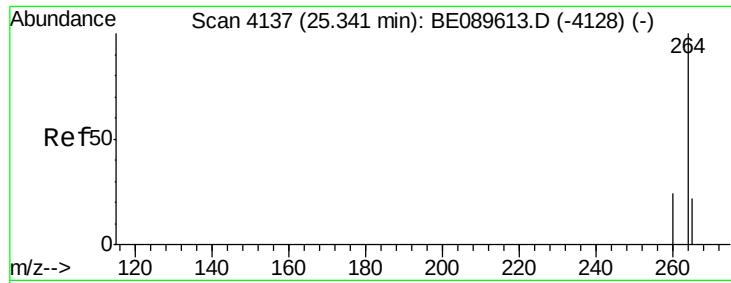
138 20.8 21.4 32.2#

277 23.9 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

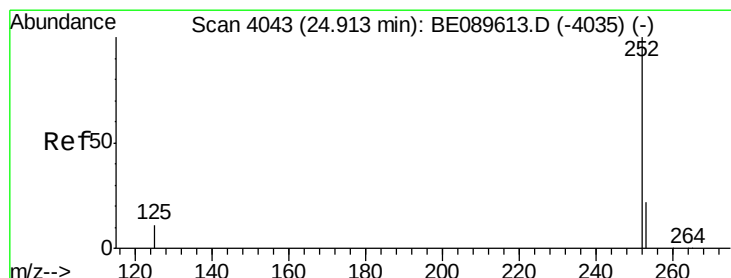
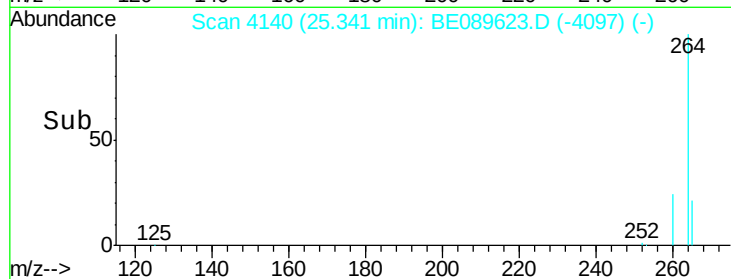
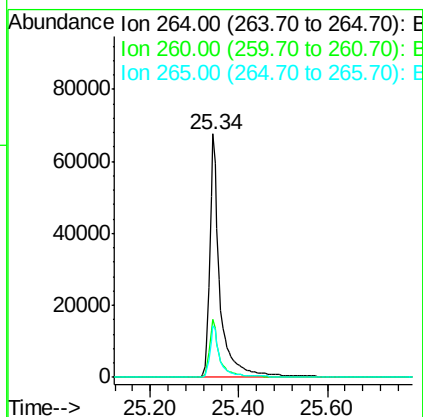
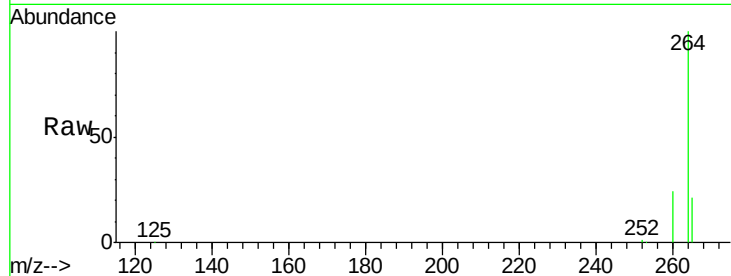




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

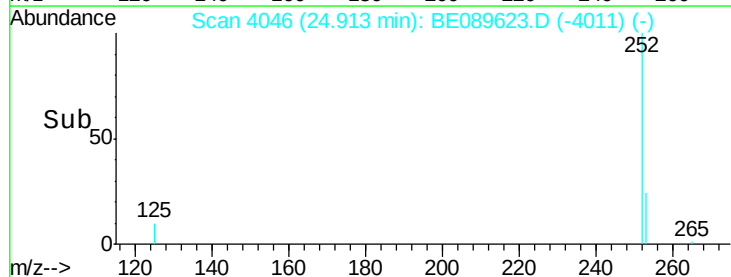
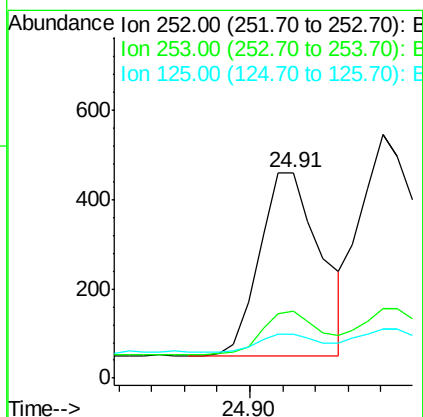
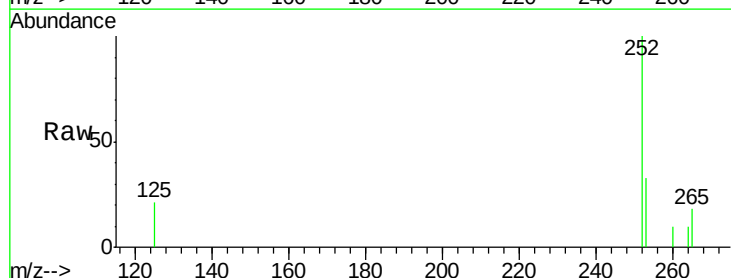
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

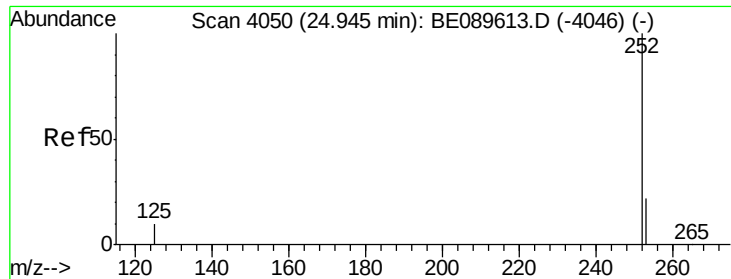
Tgt Ion: 264 Resp: 108987
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.0 28.6
 265 21.2 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4046
 Delta R.T. 0.00 min
 Lab File: BE089623.D
 Acq: 18 Feb 2015 18:13

Tgt Ion: 252 Resp: 535
 Ion Ratio Lower Upper
 252 100
 253 32.6 17.6 26.4#
 125 21.3 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: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

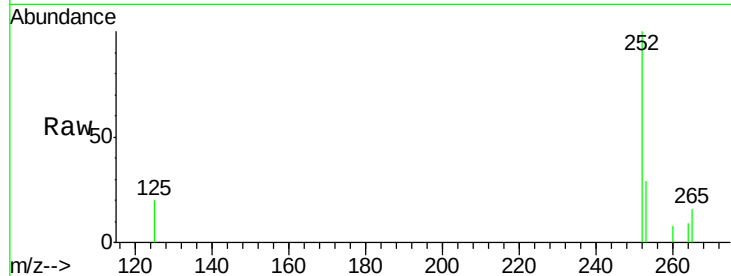
Tgt Ion:252 Resp: 1112

Ion Ratio Lower Upper

252 100

253 28.6 17.7 26.5#

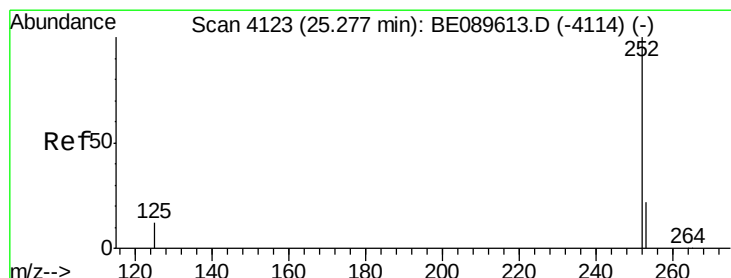
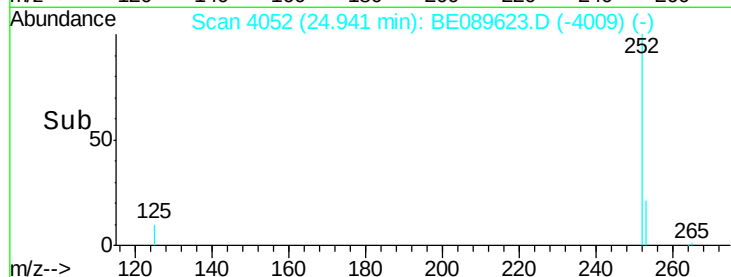
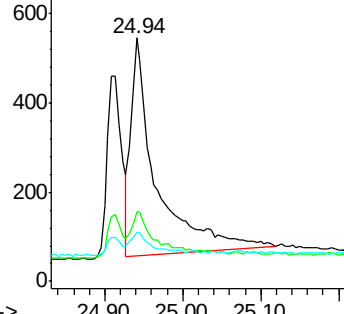
125 20.0 8.8 13.2#



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: 0.26 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

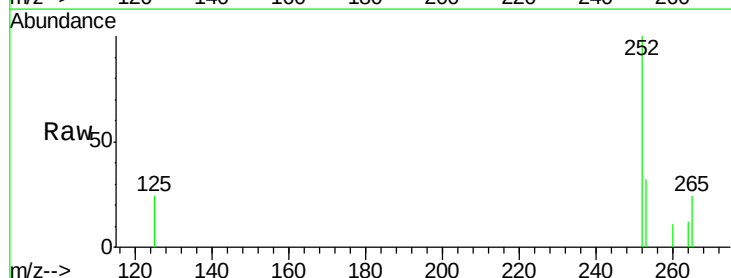
Tgt Ion:252 Resp: 540

Ion Ratio Lower Upper

252 100

253 32.1 18.1 27.1#

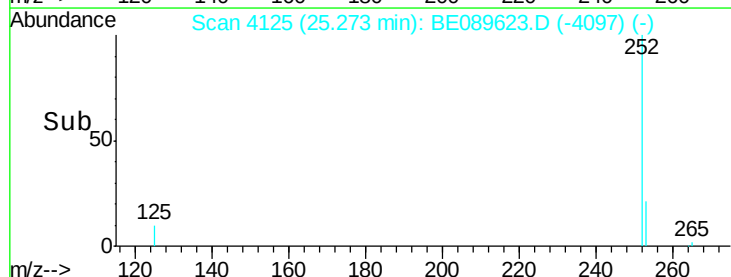
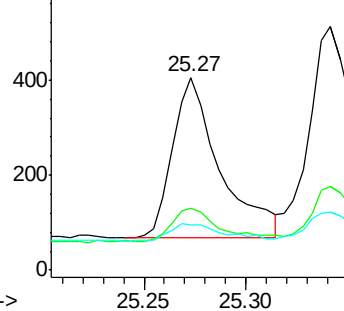
125 23.7 9.6 14.4#

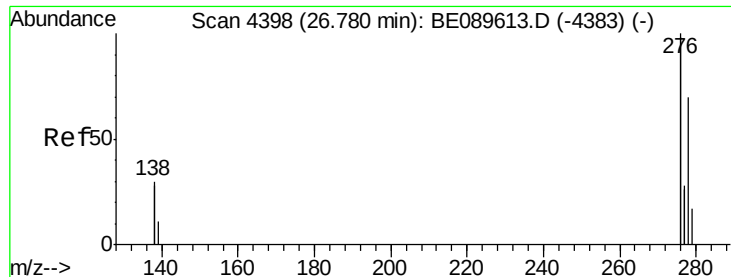


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.24 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.01 min

Lab File: BE089623.D

Acq: 18 Feb 2015 18:13

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

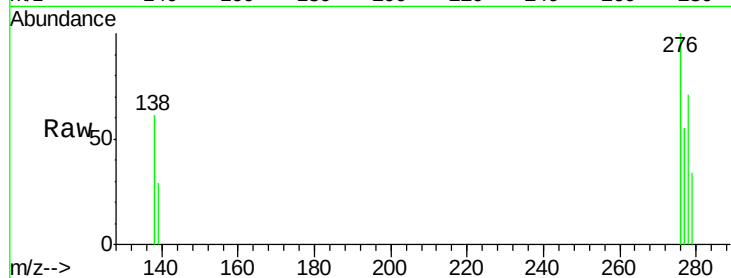
Tgt Ion:278 Resp: 335

Ion Ratio Lower Upper

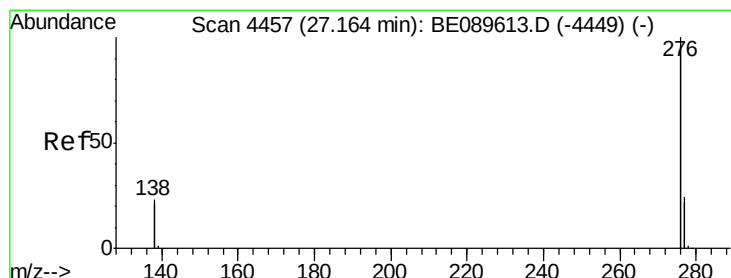
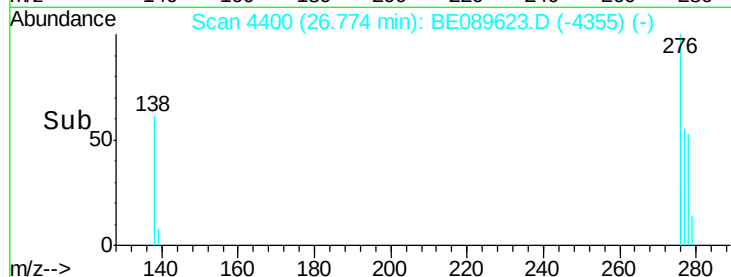
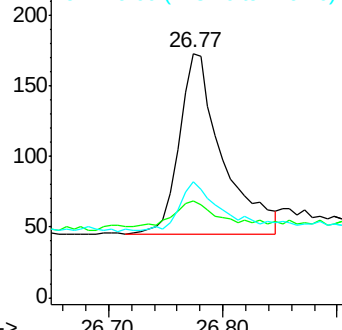
278 100

139 39.9 13.7 20.5#

279 47.4 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: BE089623.D

Acq: 18 Feb 2015 18:13

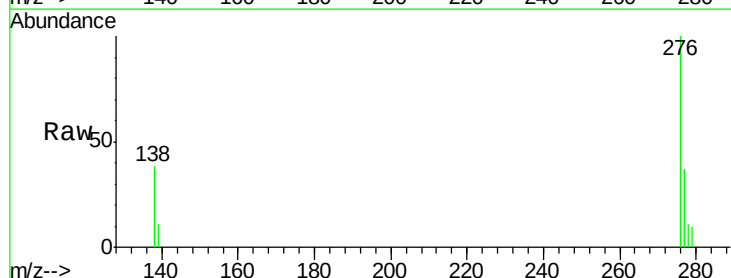
Tgt Ion:276 Resp: 3023

Ion Ratio Lower Upper

276 100

277 37.4 19.1 28.7#

138 37.8 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

