

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089638.D
 Acq On : 19 Feb 2015 6:03
 Operator : TP/IZ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

Quant Time: Feb 19 08:17:45 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

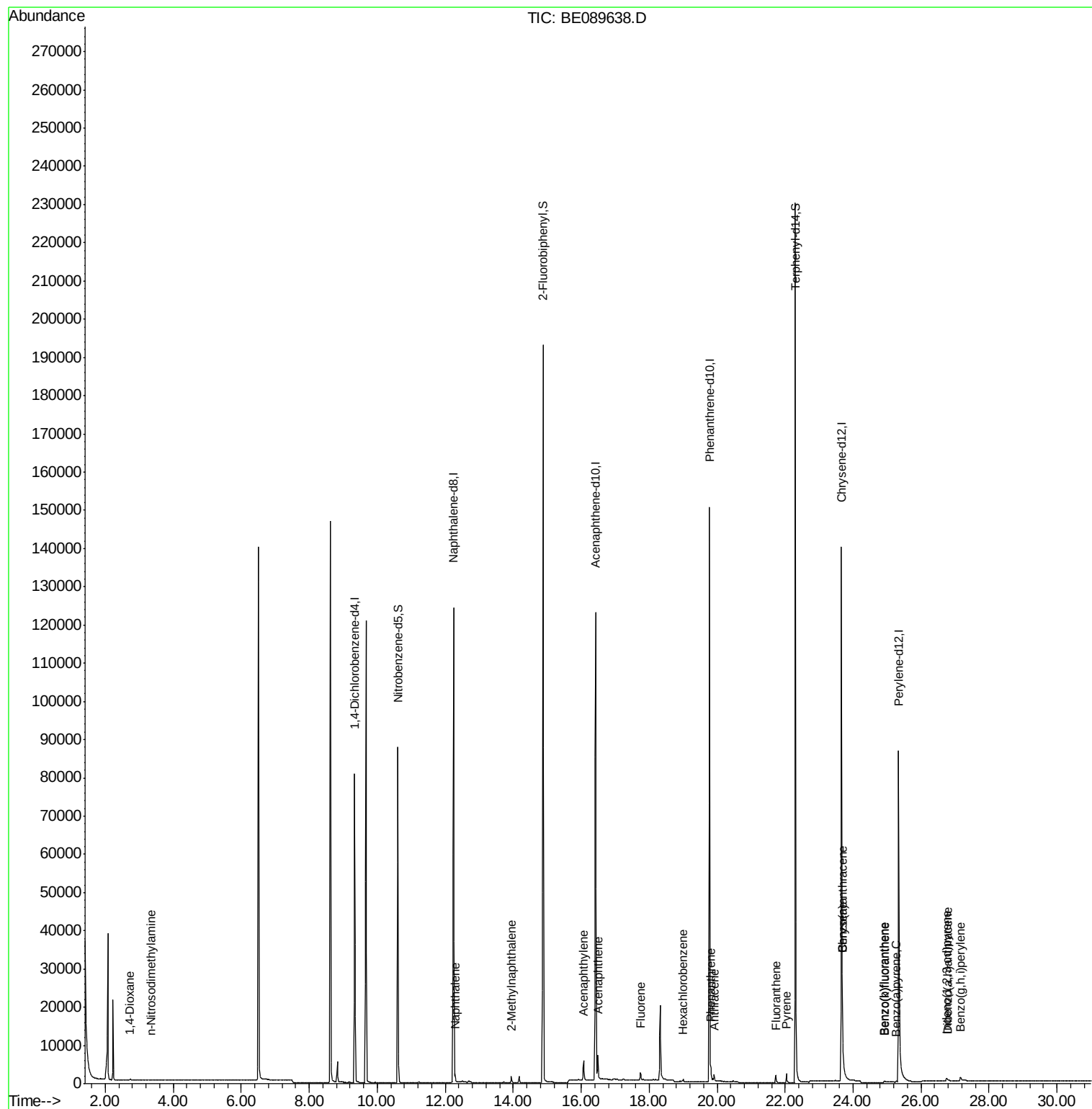
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	36921	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	147999	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	75106	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	146717	5.00	ng	0.00
19) Chrysene-d12	23.66	240	129491	5.00	ng	0.00
25) Perylene-d12	25.34	264	106293	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	61246	9.52	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	178552	8.88	ng	0.00
21) Terphenyl-d14	22.31	244	211585	11.36	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	278	0.06	ng	# 85
3) n-Nitrosodimethylamine	3.34	42	9	0.00	ng	# 1
6) Naphthalene	12.29	128	2322	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1287	0.06	ng	97
10) Acenaphthylene	16.07	152	7012	0.06	ng	99
11) Acenaphthene	16.50	154	1284	0.07	ng	87
12) Fluorene	17.74	166	1481	0.07	ng	98
14) Hexachlorobenzene	19.00	284	464	0.07	ng	# 91
15) Pentachlorophenol	19.45	266	23	Below Cal		# 62
16) Phenanthrene	19.82	178	2524	0.07	ng	99
17) Anthracene	19.91	178	1803	0.06	ng	99
18) Fluoranthene	21.72	202	1807	0.05	ng	100
20) Pyrene	22.04	202	1931	0.06	ng	99
22) Benzo(a)anthracene	23.69	228	10561	0.09	ng	93
23) Chrysene	23.69	228	10781	0.08	ng	95
24) Indeno(1,2,3-cd)pyrene	26.74	276	1875	0.19	ng	94
26) Benzo(b)fluoranthene	24.91	252	454	0.29	ng	# 76
27) Benzo(k)fluoranthene	24.94	252	781	0.03	ng	# 76
28) Benzo(a)pyrene	25.27	252	466	0.26	ng	# 73
29) Dibenzo(a,h)anthracene	26.77	278	275	0.24	ng	# 49
30) Benzo(g,h,i)perylene	27.16	276	2733	0.16	ng	# 69

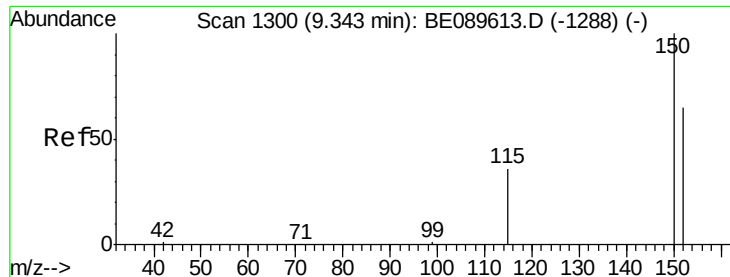
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

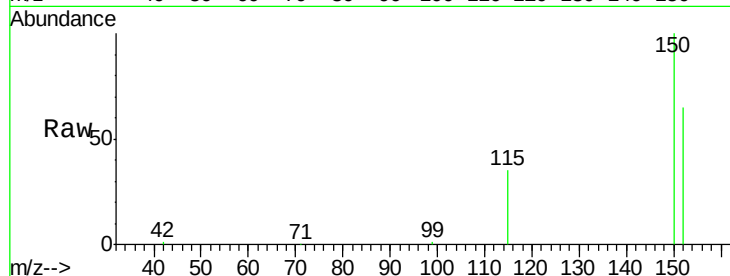
Tgt Ion: 152 Resp: 36921

Ion Ratio Lower Upper

152 100

150 153.2 122.4 183.6

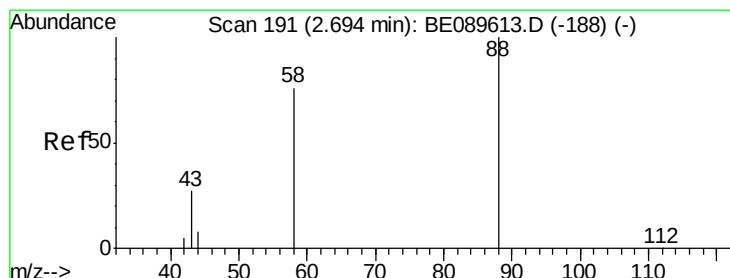
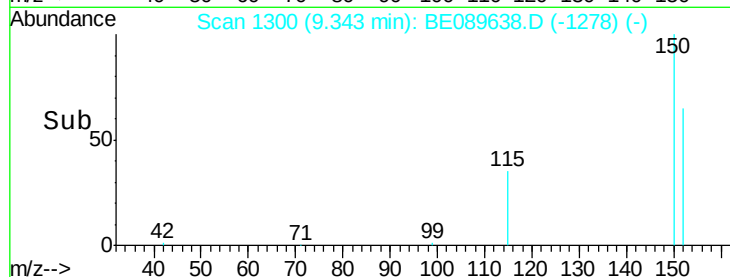
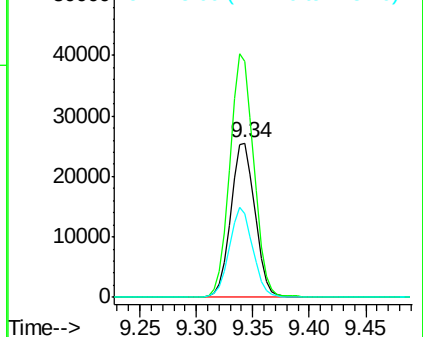
115 54.0 44.2 66.2



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: 0.06 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

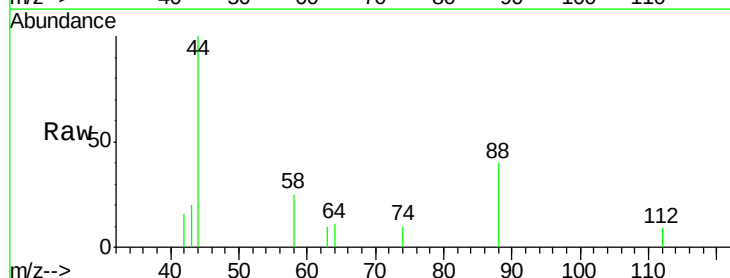
Tgt Ion: 88 Resp: 278

Ion Ratio Lower Upper

88 100

58 66.9 54.6 81.8

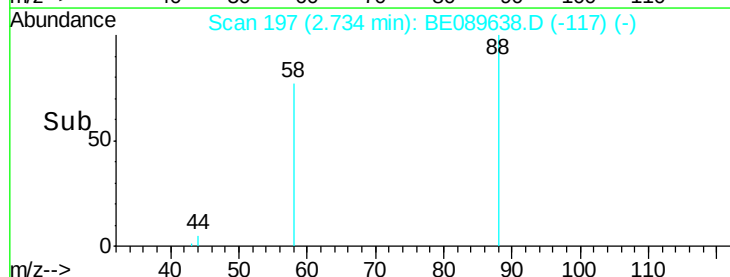
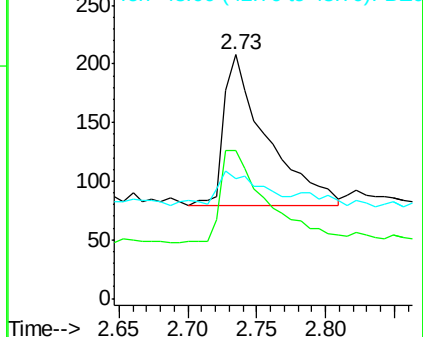
43 0.0 20.6 30.8#

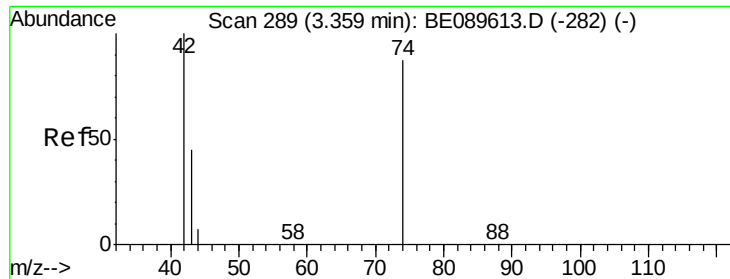


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.00 ng

RT: 3.34 min Scan# 287

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

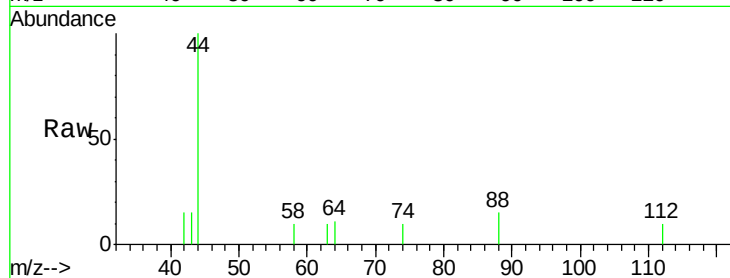
Tgt Ion: 42 Resp: 9

Ion Ratio Lower Upper

42 100

74 0.0 121.4 182.0#

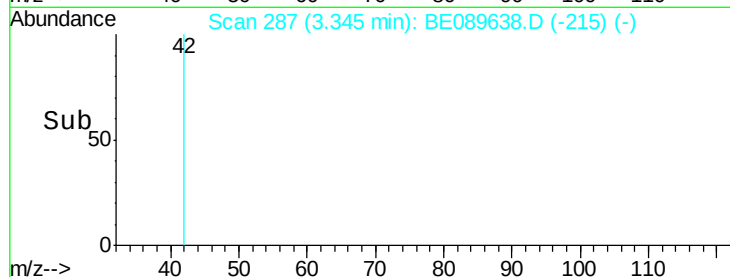
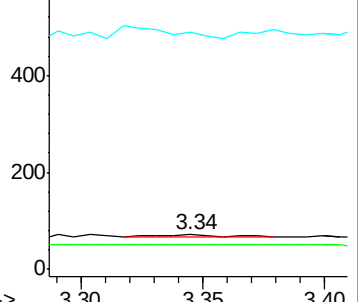
44 0.0 4.5 6.7#



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. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

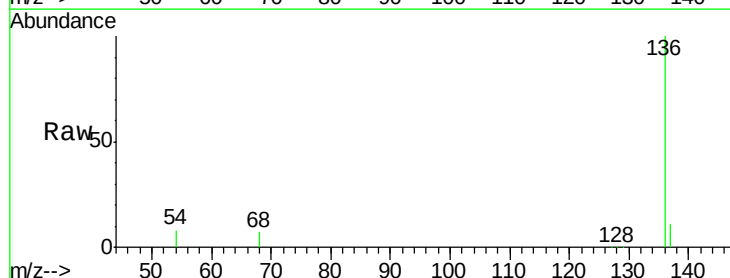
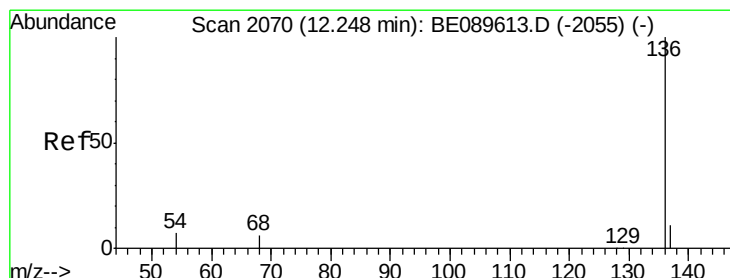
Tgt Ion: 136 Resp: 147999

Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

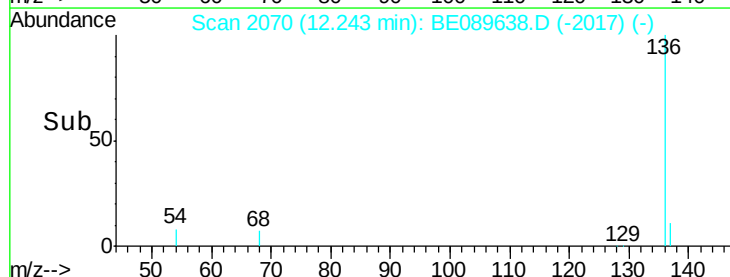
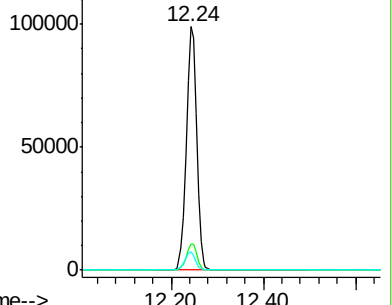
54 7.6 5.3 7.9

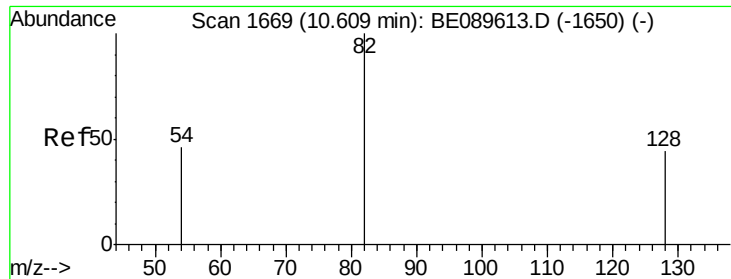


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 9.52 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

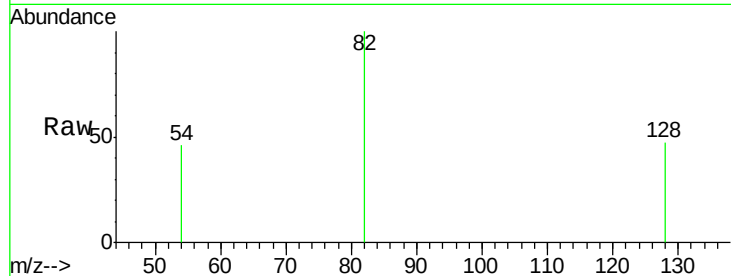
Tgt Ion: 82 Resp: 61246

Ion Ratio Lower Upper

82 100

128 47.2 35.5 53.3

54 45.5 37.5 56.3

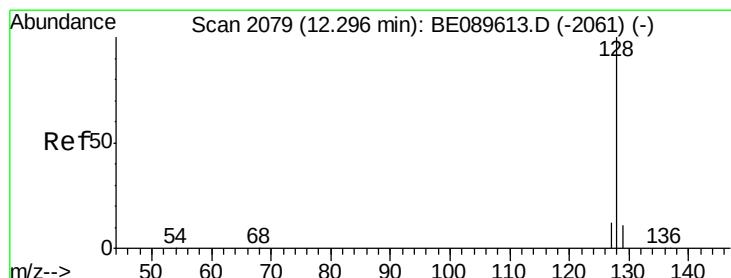
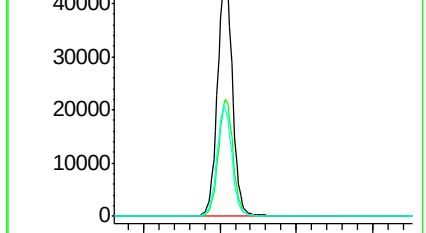
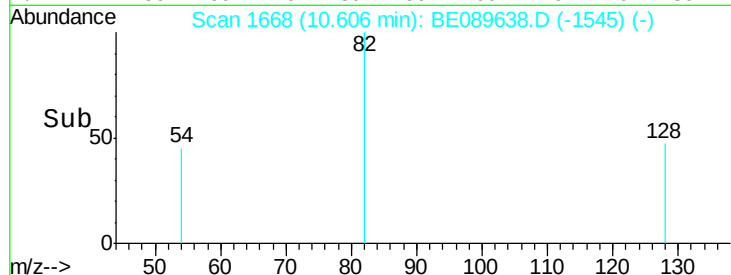


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

Time-->



#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

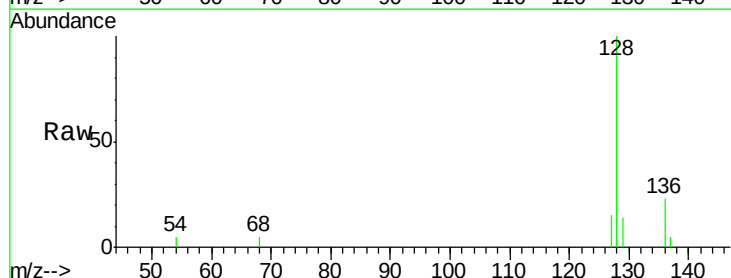
Tgt Ion: 128 Resp: 2322

Ion Ratio Lower Upper

128 100

129 13.6 8.9 13.3#

127 15.2 9.8 14.8#

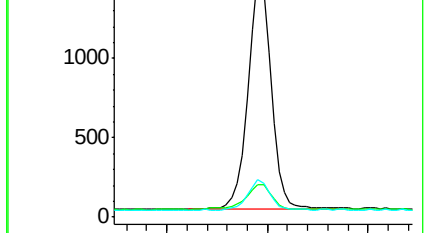
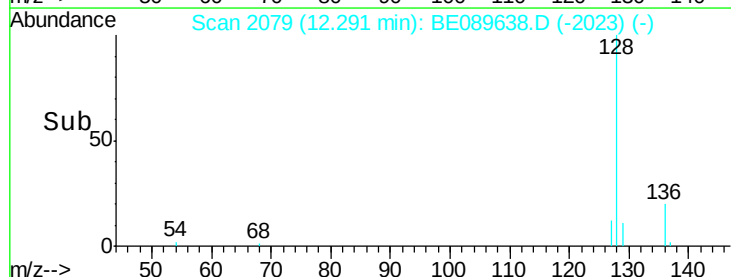


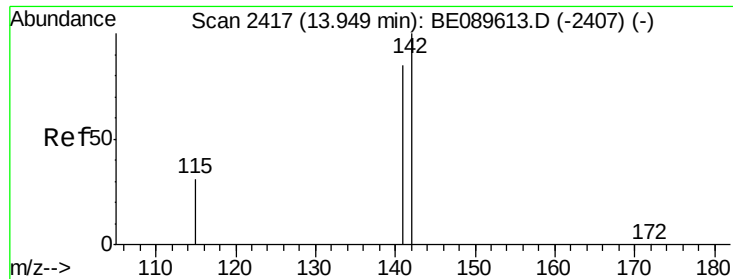
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

Time-->





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampled :

MDL-07-S

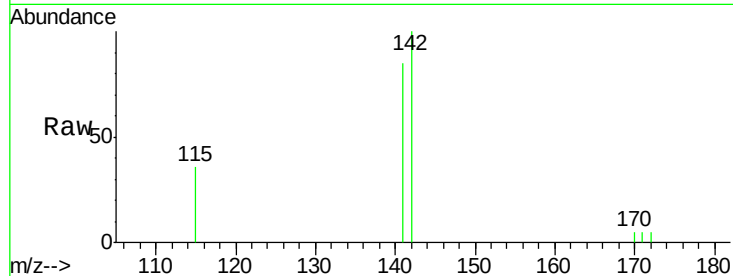
Tgt Ion:142 Resp: 1287

Ion Ratio Lower Upper

142 100

141 84.6 68.3 102.5

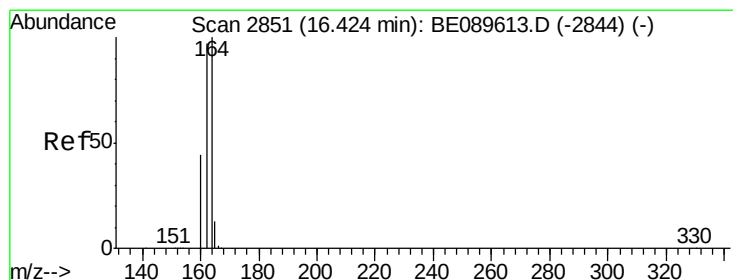
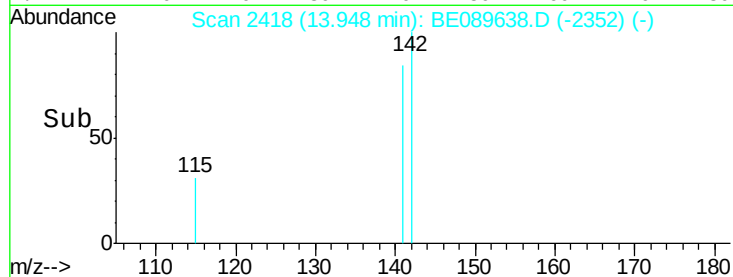
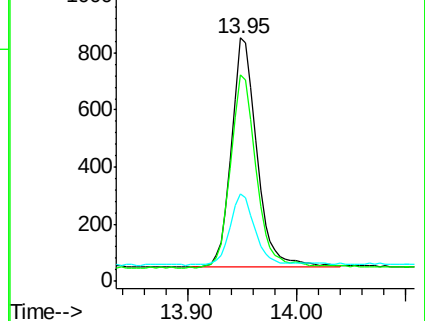
115 35.9 25.1 37.7



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: BE089638.D

Acq: 19 Feb 2015 6:03

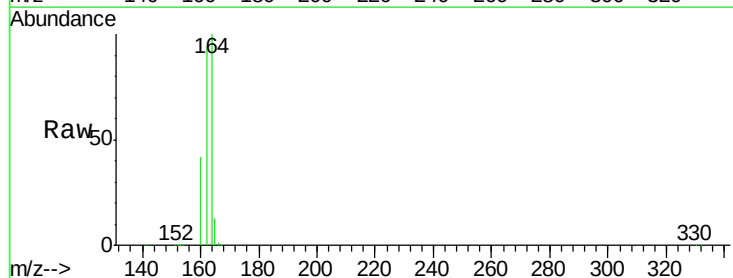
Tgt Ion:164 Resp: 75106

Ion Ratio Lower Upper

164 100

162 93.9 77.5 116.3

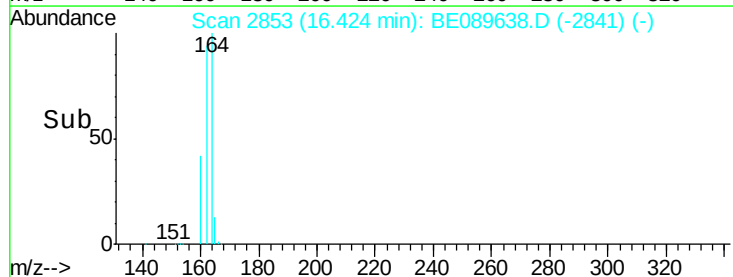
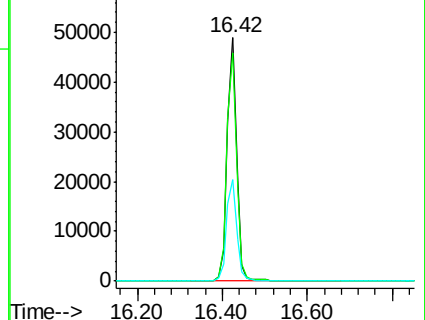
160 41.9 35.5 53.3

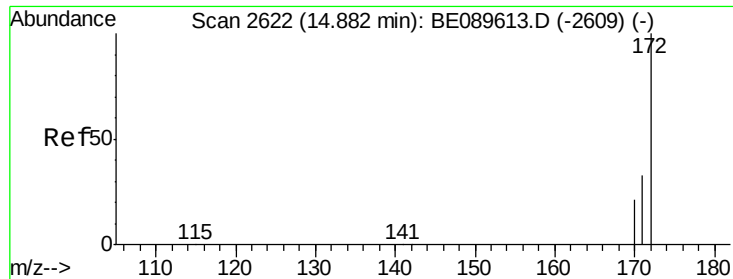


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.88 ng

RT: 14.88 min Scan# 2623

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

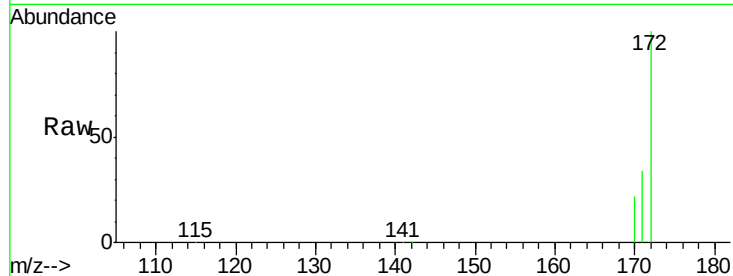
Tgt Ion:172 Resp: 178552

Ion Ratio Lower Upper

172 100

171 33.9 26.9 40.3

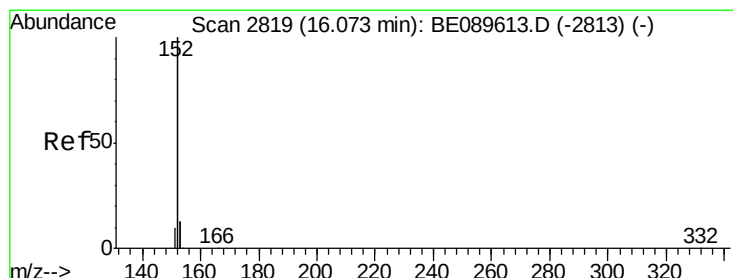
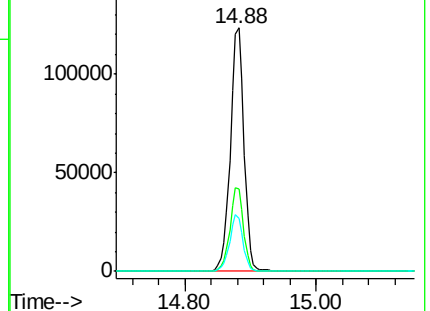
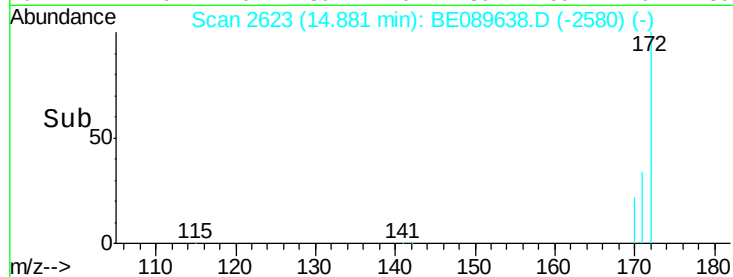
170 22.0 17.4 26.0



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: BE089638.D

Acq: 19 Feb 2015 6:03

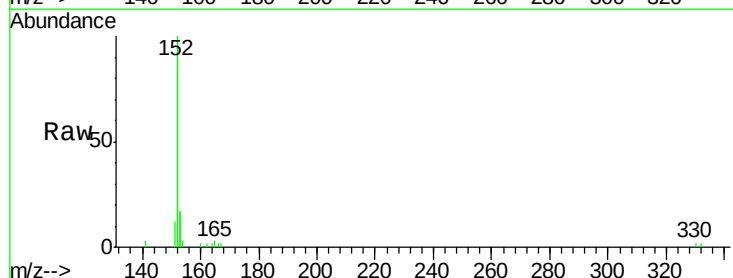
Tgt Ion:152 Resp: 7012

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

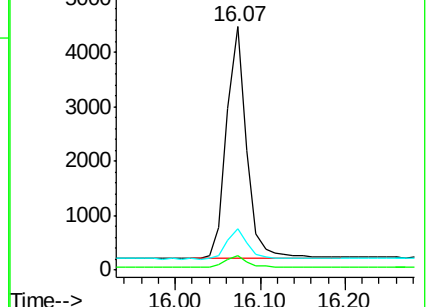
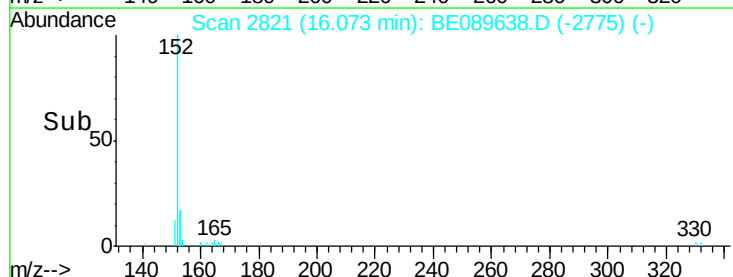
153 13.7 10.5 15.7

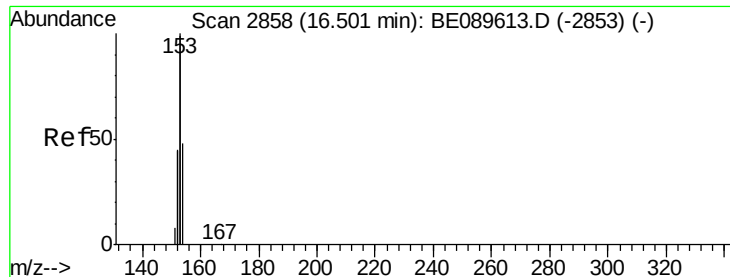


Abundance Ion 152.00 (151.70 to 152.70): E

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: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

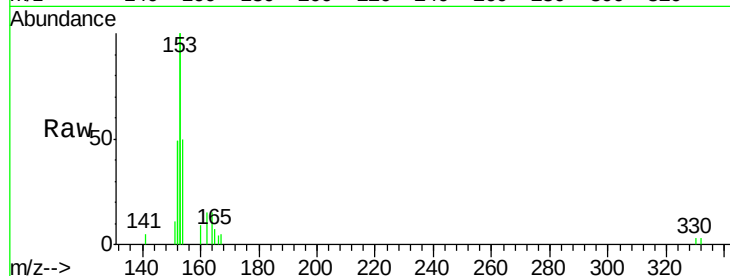
Tgt Ion:154 Resp: 1284

Ion Ratio Lower Upper

154 100

153 456.5 348.9 523.3

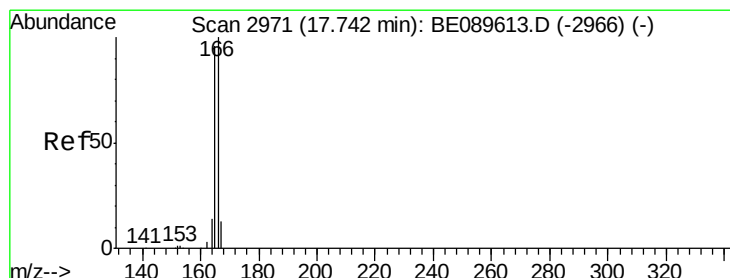
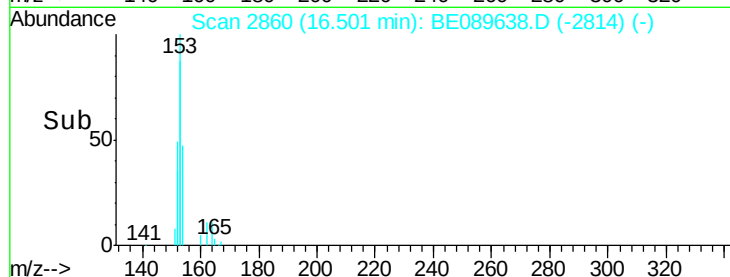
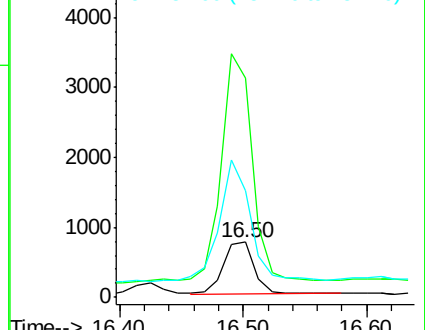
152 243.8 166.6 249.8



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: BE089638.D

Acq: 19 Feb 2015 6:03

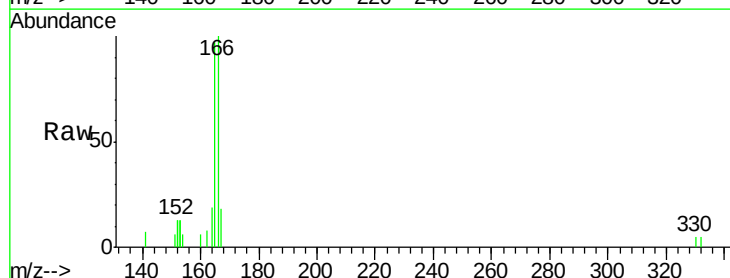
Tgt Ion:166 Resp: 1481

Ion Ratio Lower Upper

166 100

165 91.6 74.7 112.1

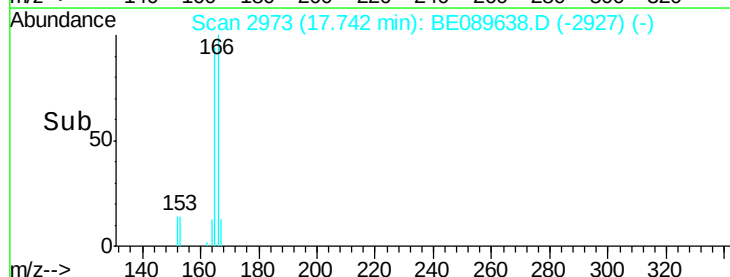
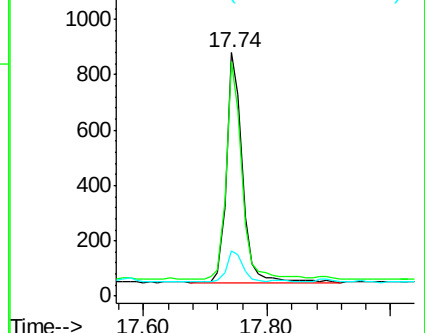
167 15.2 10.5 15.7

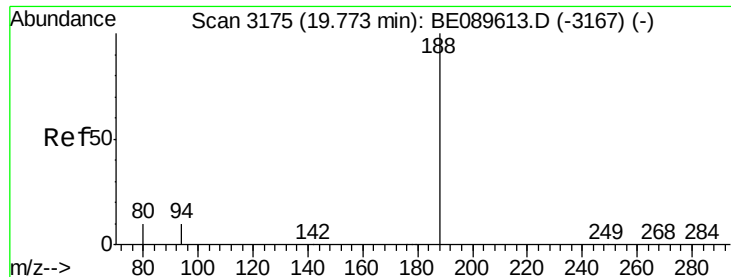


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

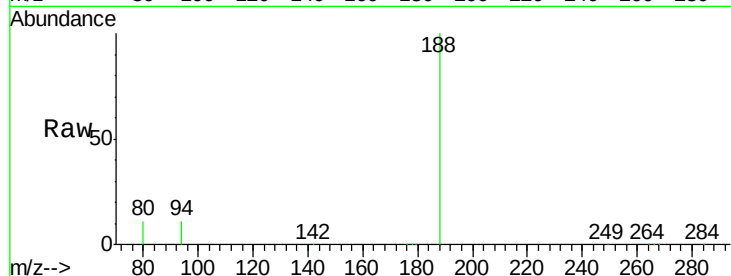
Tgt Ion:188 Resp: 146717

Ion Ratio Lower Upper

188 100

94 10.8 8.2 12.4

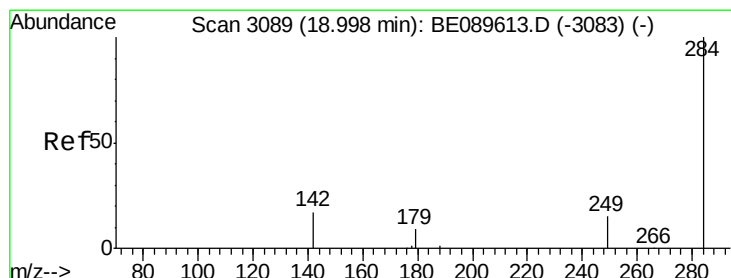
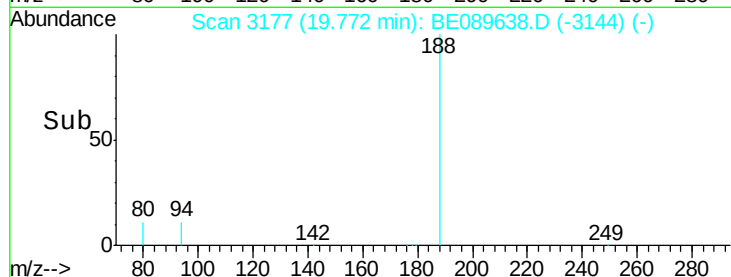
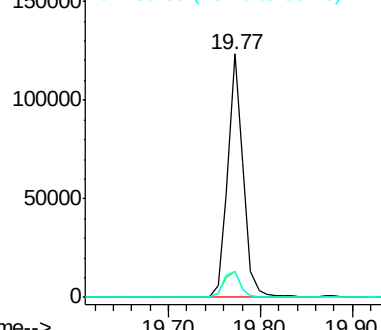
80 10.7 8.1 12.1



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: BE089638.D

Acq: 19 Feb 2015 6:03

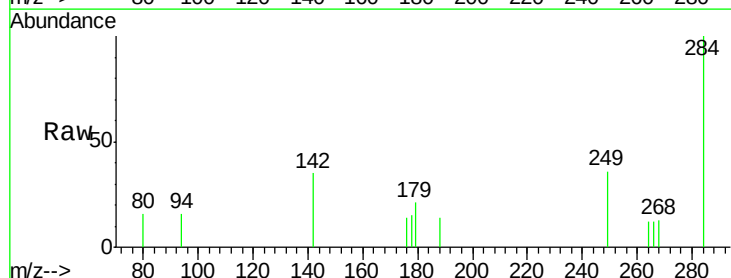
Tgt Ion:284 Resp: 464

Ion Ratio Lower Upper

284 100

142 49.1 32.3 48.5#

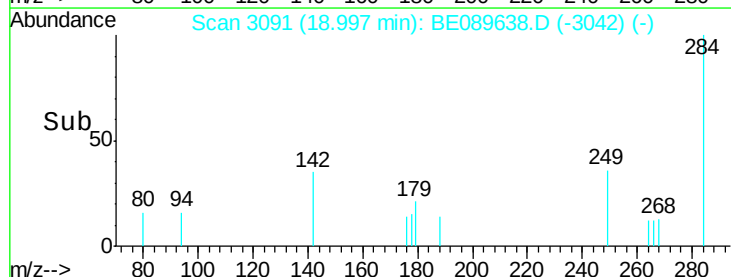
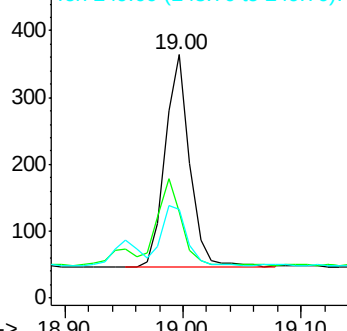
249 28.2 22.3 33.5

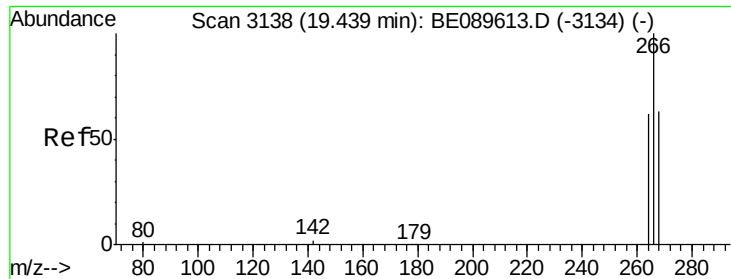


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

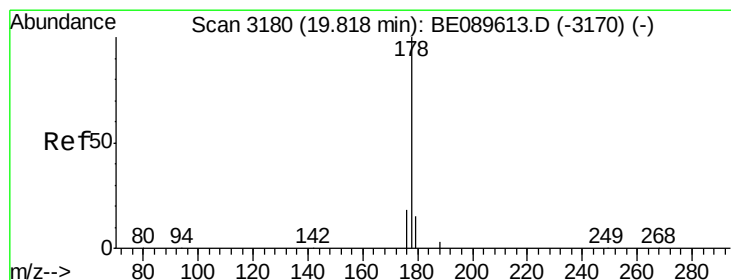
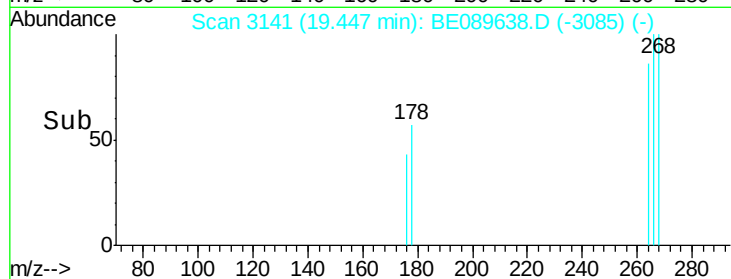
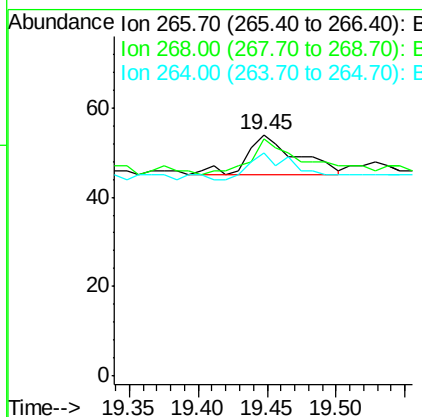
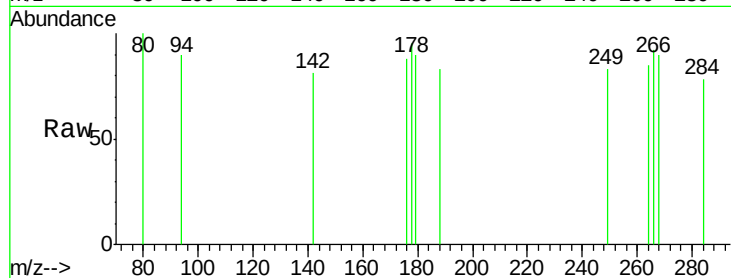




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 6:03

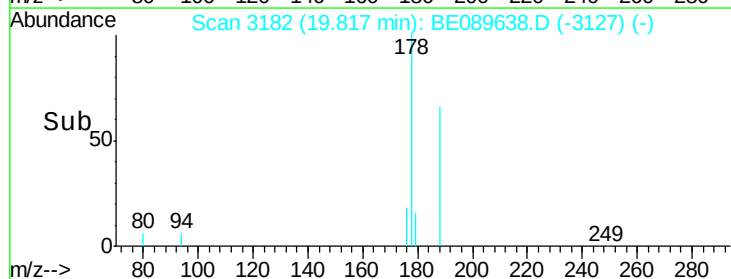
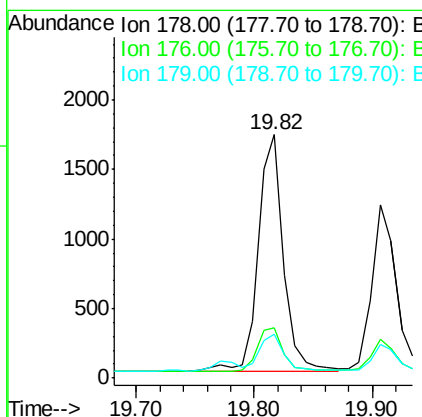
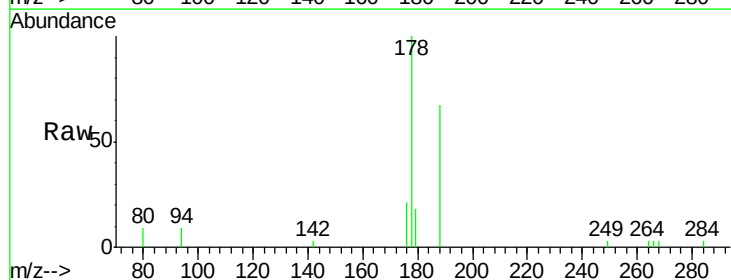
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

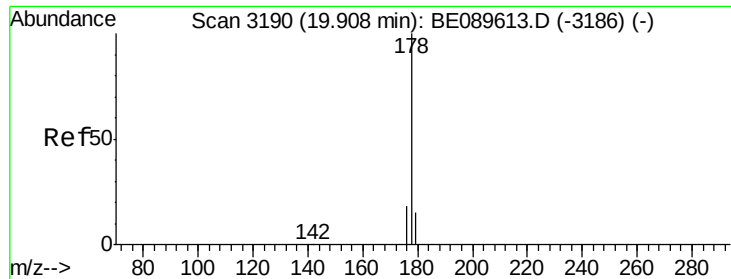
Tgt Ion: 266 Resp: 23
 Ion Ratio Lower Upper
 266 100
 268 98.1 52.6 79.0#
 264 92.6 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 6:03

Tgt Ion: 178 Resp: 2524
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 14.5 12.3 18.5

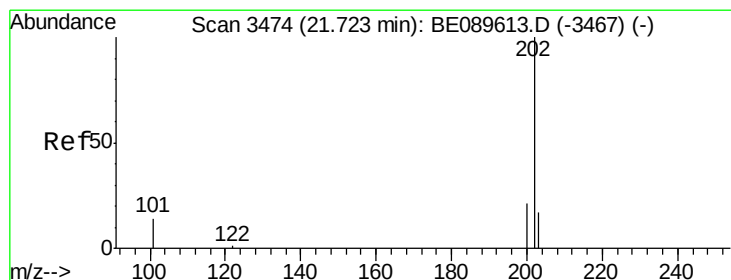
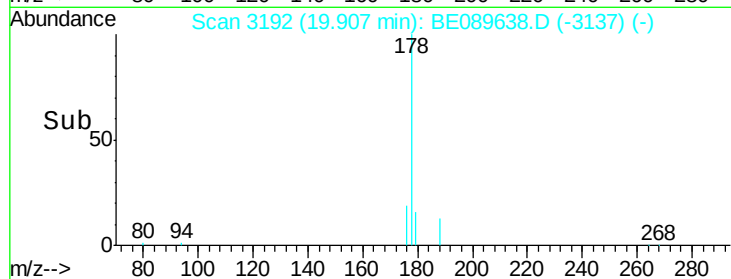
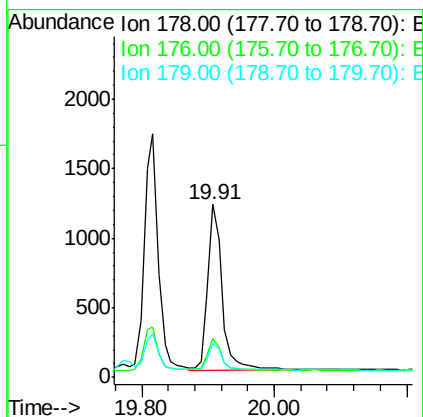
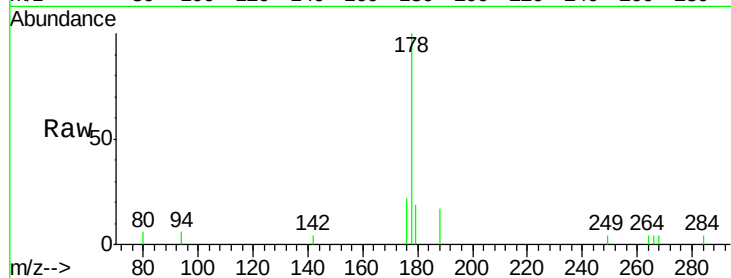




#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 6:03

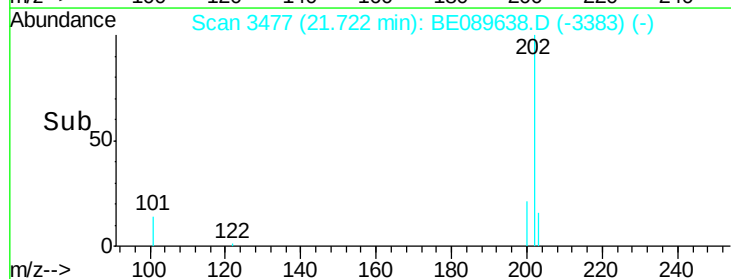
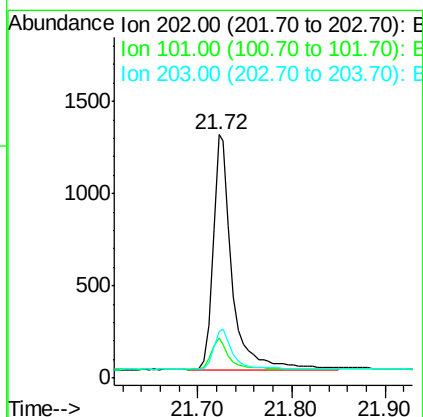
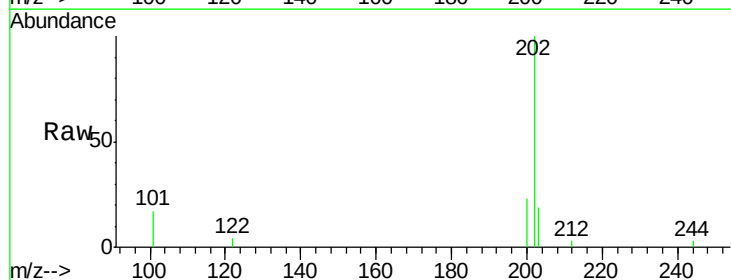
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

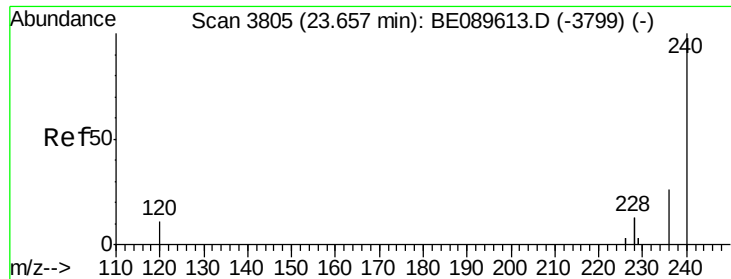
Tgt Ion:178 Resp: 1803
 Ion Ratio Lower Upper
 178 100
 176 17.7 14.6 22.0
 179 14.8 12.3 18.5



#18
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 6:03

Tgt Ion:202 Resp: 1807
 Ion Ratio Lower Upper
 202 100
 101 13.3 10.4 15.6
 203 17.4 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

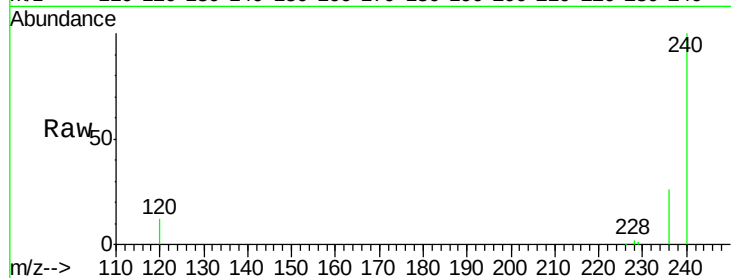
Tgt Ion:240 Resp: 129491

Ion Ratio Lower Upper

240 100

120 11.9 9.0 13.4

236 26.1 21.0 31.6

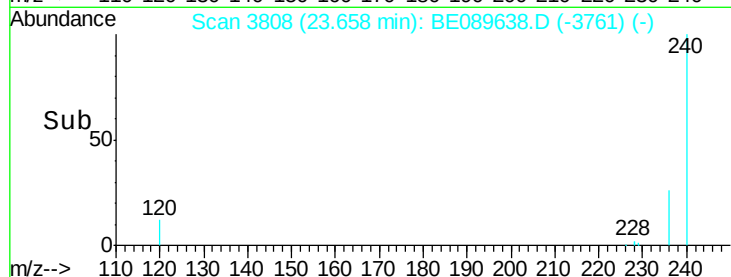


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

Time-->



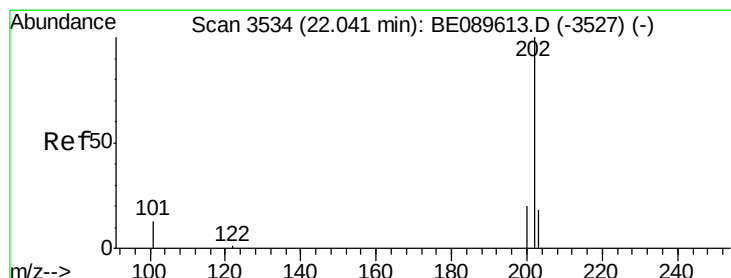
Abundance

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

Time-->



#20

Pyrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

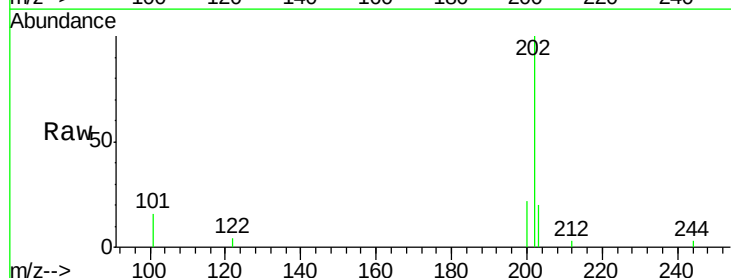
Tgt Ion:202 Resp: 1931

Ion Ratio Lower Upper

202 100

200 20.2 16.3 24.5

203 18.1 13.8 20.8

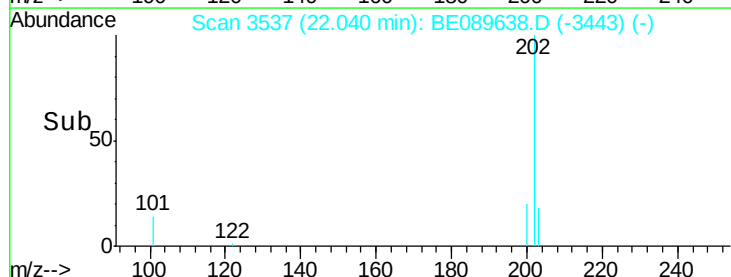


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

Time-->



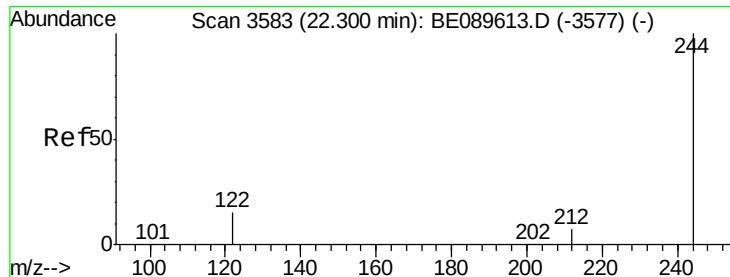
Abundance

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

Time-->



#21

Terphenyl-d14

Concen: 11.36 ng

RT: 22.31 min Scan# 3587

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

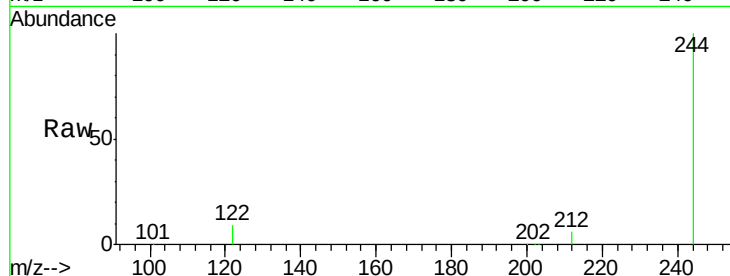
Tgt Ion:244 Resp: 211585

Ion Ratio Lower Upper

244 100

212 6.3 5.8 8.8

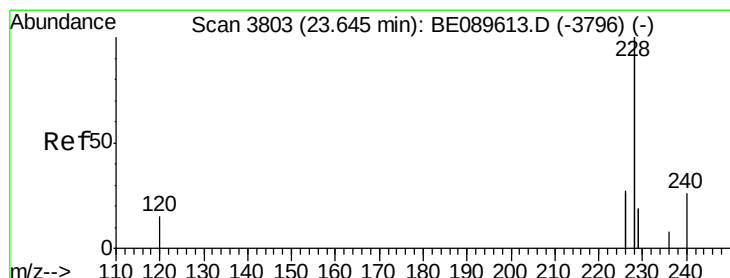
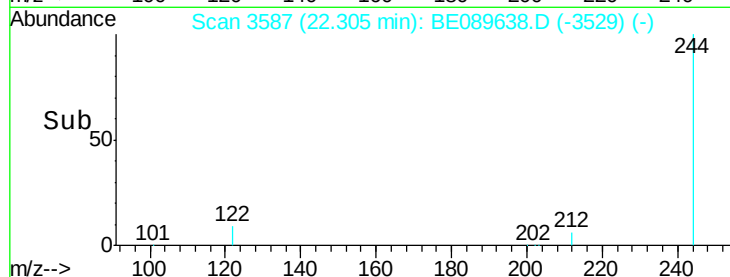
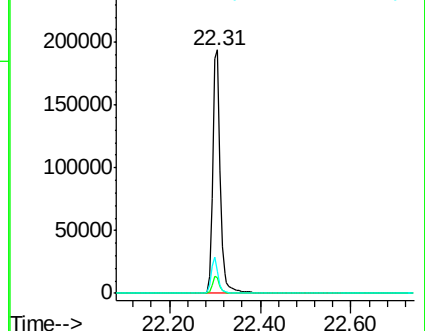
122 9.2 11.8 17.8#



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: 0.09 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.04 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

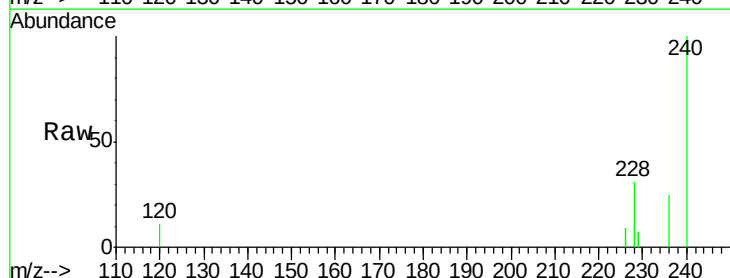
Tgt Ion:228 Resp: 10561

Ion Ratio Lower Upper

228 100

226 29.8 21.2 31.8

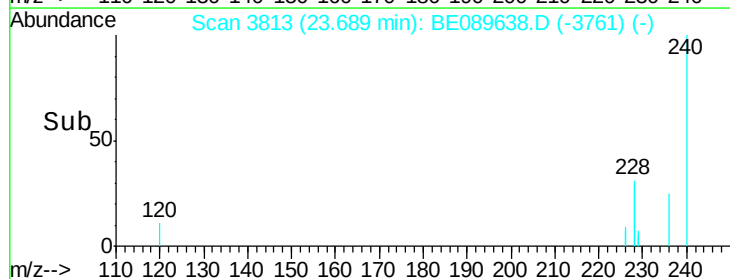
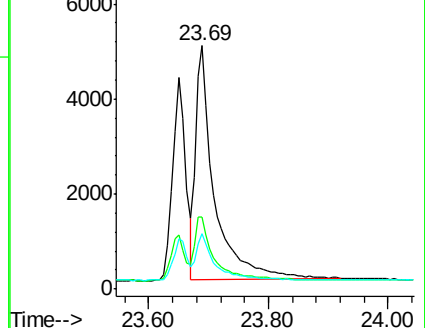
229 22.8 15.2 22.8

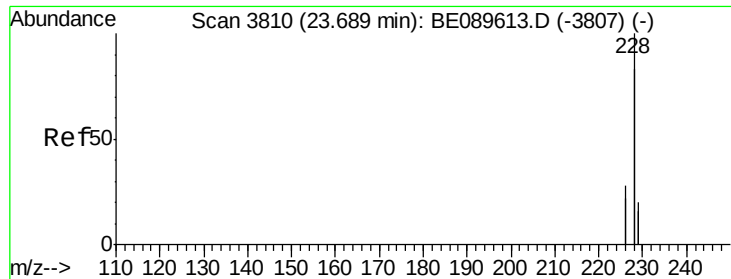


Abundance Ion 228.00 (227.70 to 228.70): E

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: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

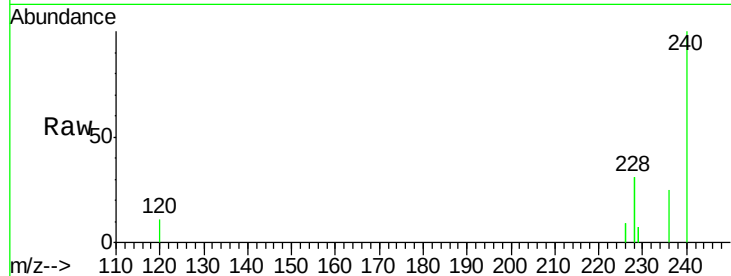
Tgt Ion:228 Resp: 10781

Ion Ratio Lower Upper

228 100

226 29.8 22.2 33.4

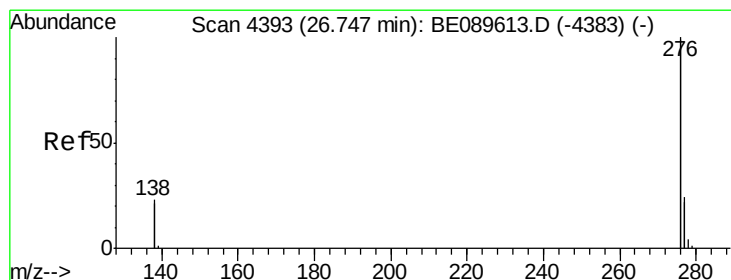
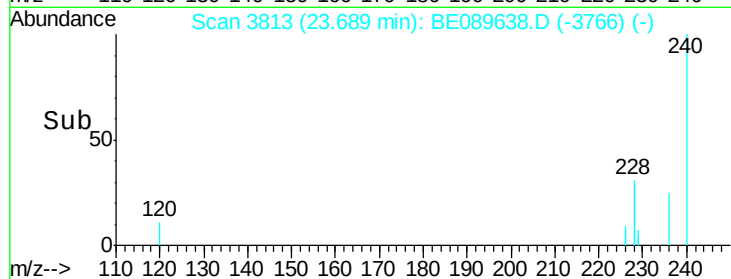
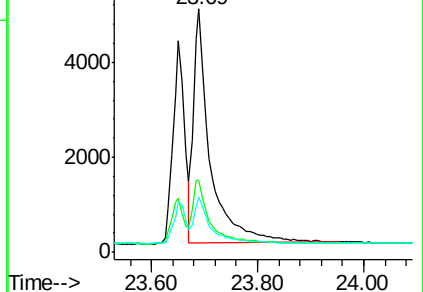
229 22.8 16.0 24.0



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: 26.74 min Scan# 4395

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

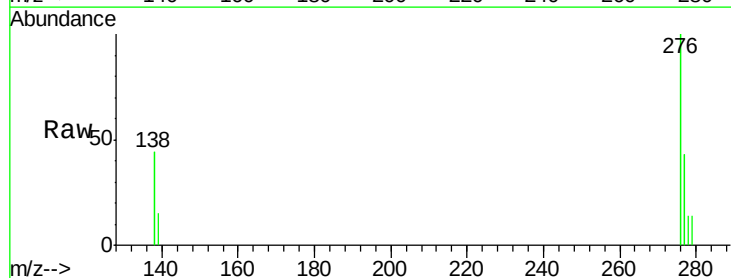
Tgt Ion:276 Resp: 1875

Ion Ratio Lower Upper

276 100

138 21.7 21.4 32.2

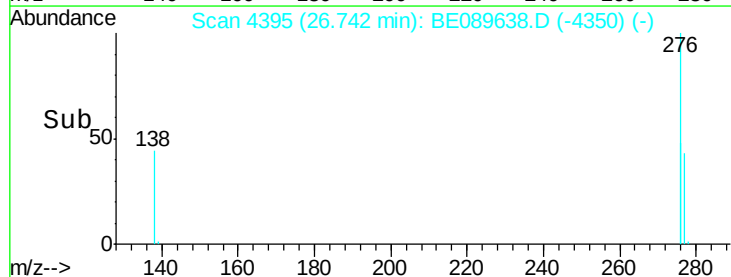
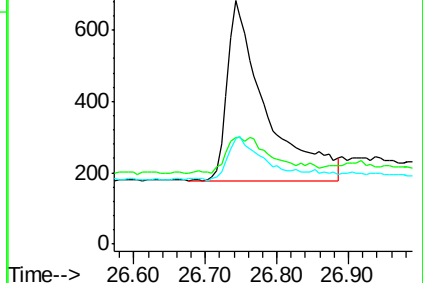
277 23.7 19.9 29.9

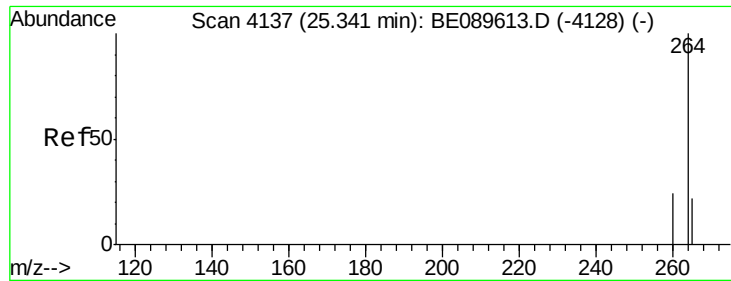


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

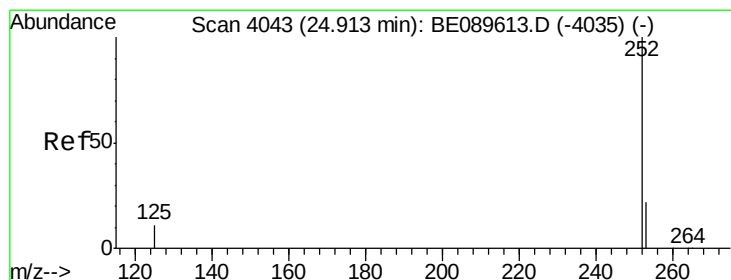
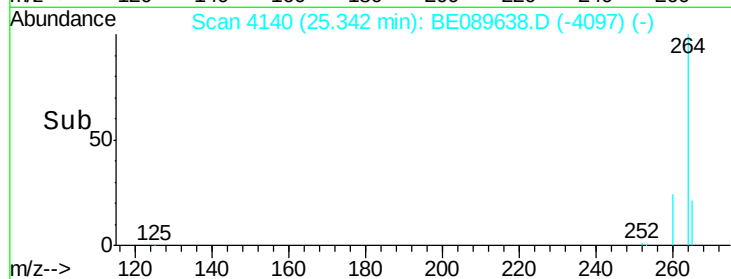
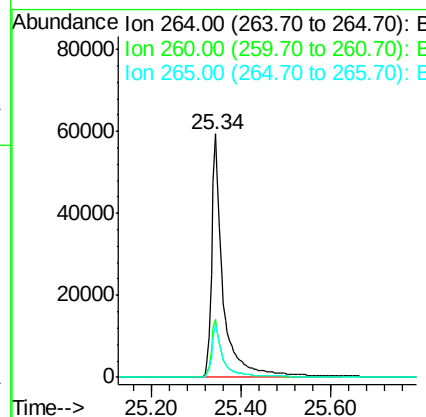
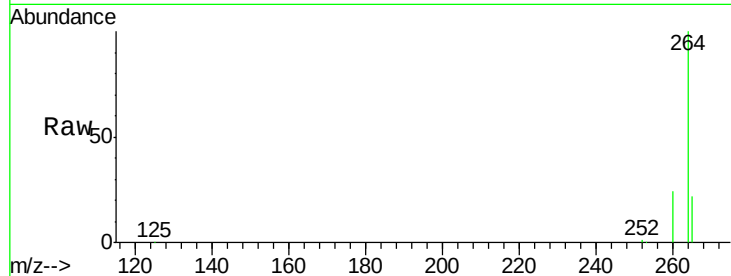




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 6:03

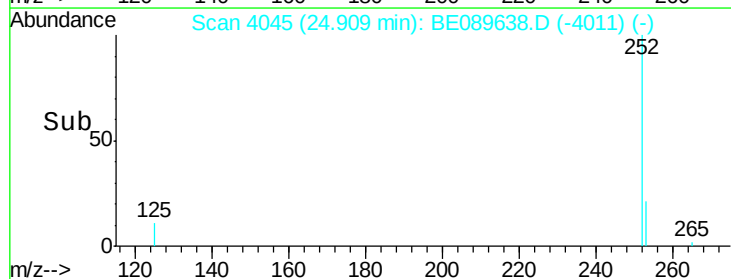
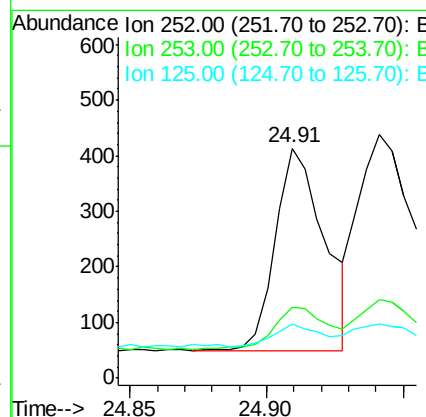
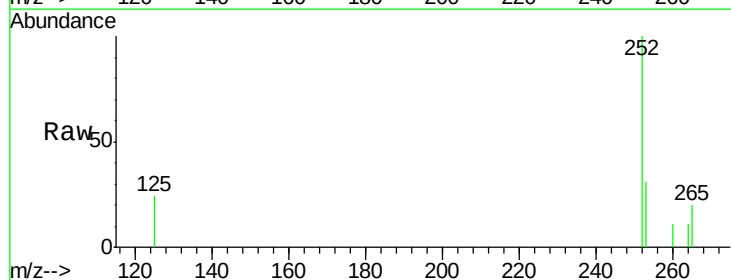
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

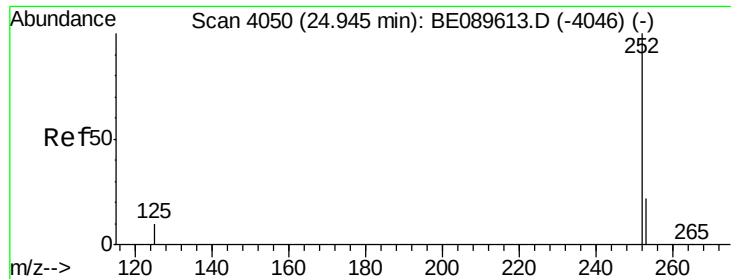
Tgt Ion: 264 Resp: 106293
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.0 28.6
 265 21.6 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. -0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 6:03

Tgt Ion: 252 Resp: 454
 Ion Ratio Lower Upper
 252 100
 253 31.0 17.6 26.4#
 125 23.7 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

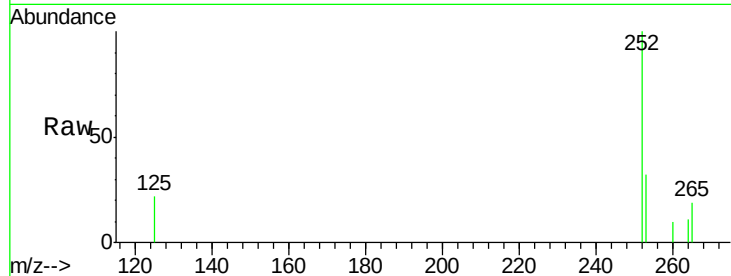
Tgt Ion:252 Resp: 781

Ion Ratio Lower Upper

252 100

253 32.4 17.7 26.5#

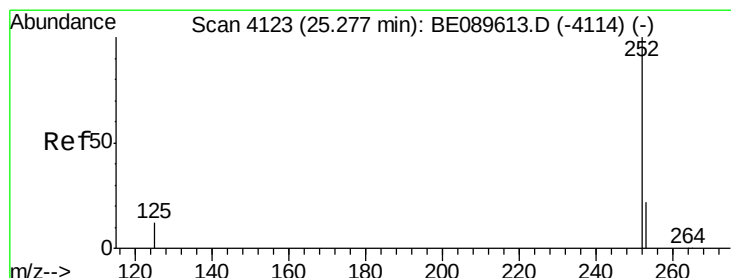
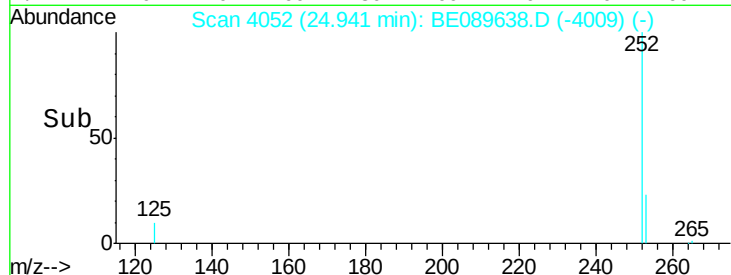
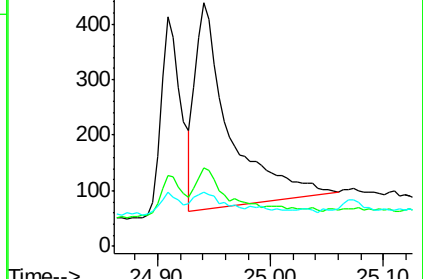
125 22.1 8.8 13.2#



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: BE089638.D

Acq: 19 Feb 2015 6:03

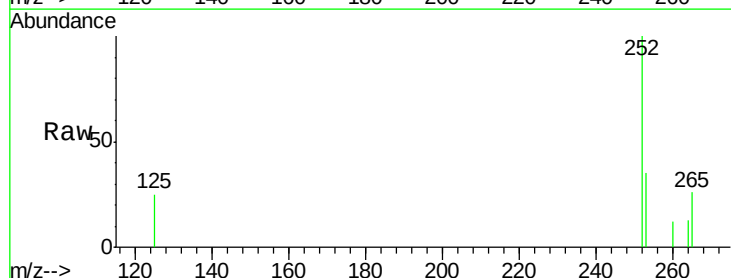
Tgt Ion:252 Resp: 466

Ion Ratio Lower Upper

252 100

253 34.6 18.1 27.1#

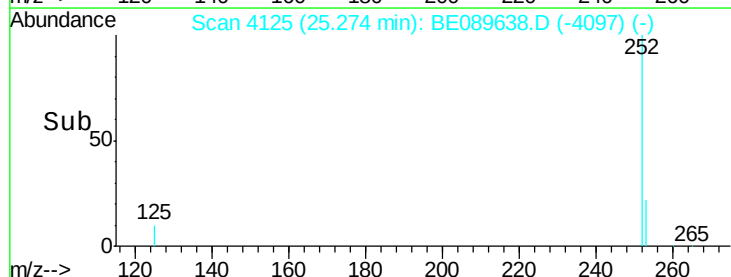
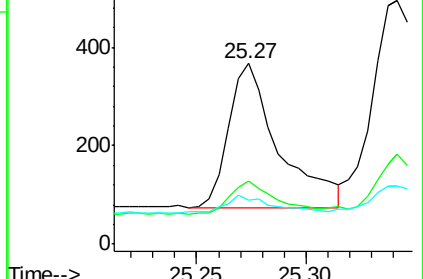
125 24.5 9.6 14.4#

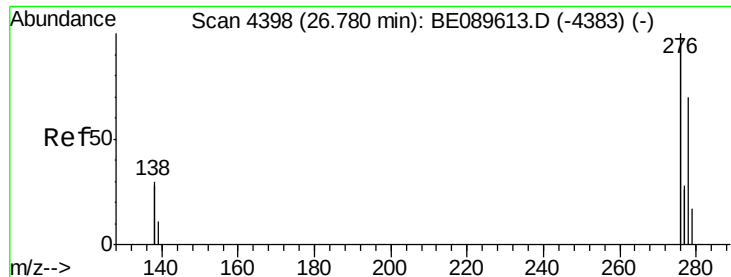


Abundance Ion 252.00 (251.70 to 252.70): E

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. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

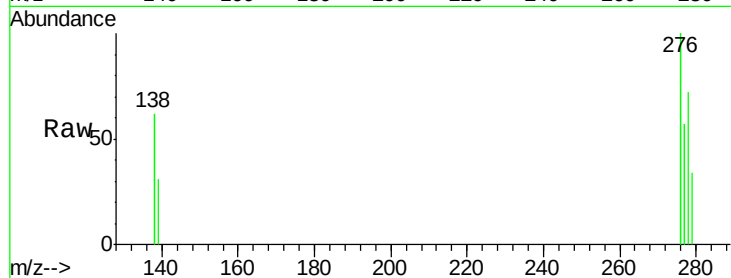
Tgt Ion: 278 Resp: 275

Ion Ratio Lower Upper

278 100

139 42.9 13.7 20.5#

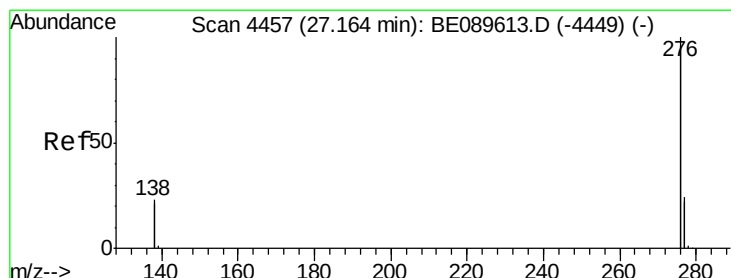
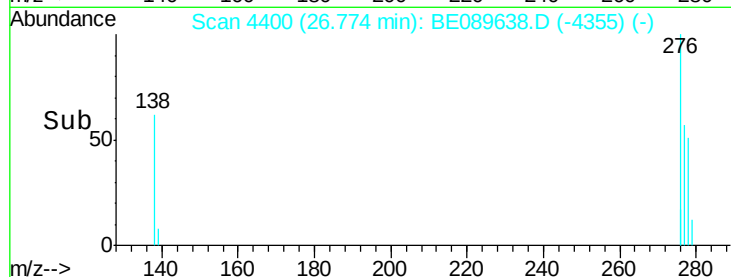
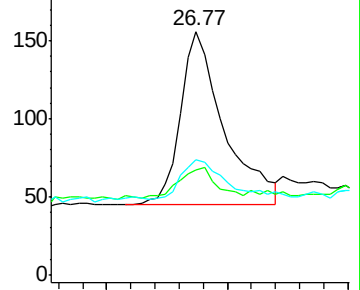
279 47.4 19.7 29.5#



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# 4459

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 6:03

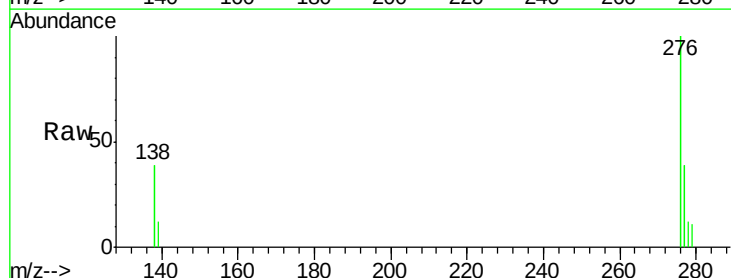
Tgt Ion: 276 Resp: 2733

Ion Ratio Lower Upper

276 100

277 39.2 19.1 28.7#

138 38.6 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

