

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089638.D
 Acq On : 19 Feb 2015 15:15
 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 20 01:17:30 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	35006	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	138578	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	69078	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	134735	5.00	ng	0.00
19) Chrysene-d12	23.66	240	120602	5.00	ng	0.00
25) Perylene-d12	25.34	264	95783	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	62021	10.30	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	164993	8.92	ng	0.00
21) Terphenyl-d14	22.30	244	196732	11.34	ng	0.00

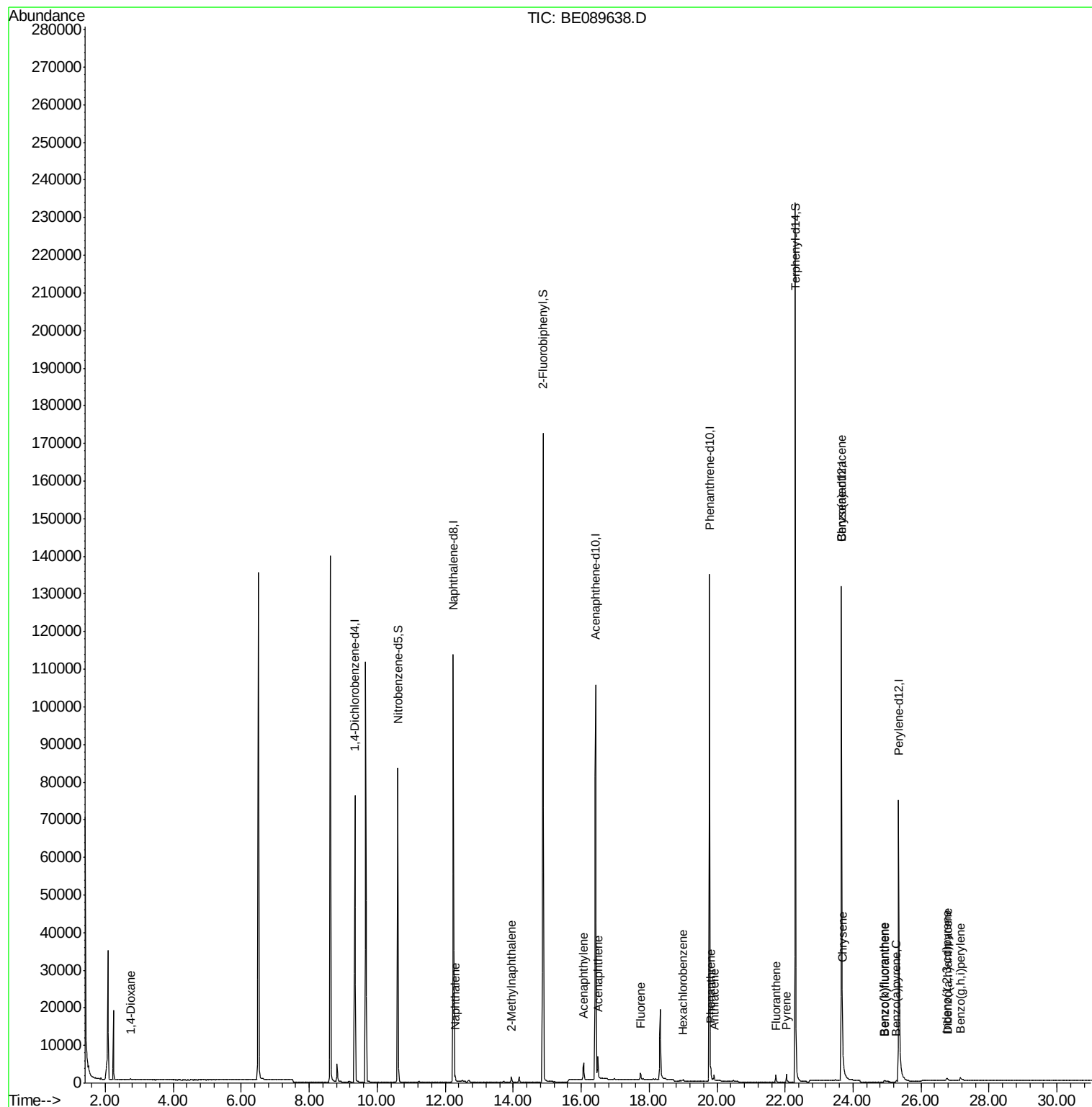
Target Compounds						Ovalue
2) 1,4-Dioxane	2.74	88	262	0.06	ng	# 85
6) Naphthalene	12.29	128	2186	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1177	0.06	ng	97
10) Acenaphthylene	16.07	152	6421	0.06	ng	98
11) Acenaphthene	16.49	154	1208	0.07	ng	92
12) Fluorene	17.74	166	1342	0.06	ng	100
14) Hexachlorobenzene	19.00	284	430	0.07	ng	95
15) Pentachlorophenol	19.45	266	21	Below Cal		# 62
16) Phenanthrene	19.82	178	2294	0.07	ng	99
17) Anthracene	19.91	178	1632	0.06	ng	98
18) Fluoranthene	21.72	202	1677	0.05	ng	100
20) Pyrene	22.04	202	1779	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	6031	0.06	ng	# 94
23) Chrysene	23.69	228	9747	0.08	ng	94
24) Indeno(1,2,3-cd)pyrene	26.75	276	1478	0.19	ng	98
26) Benzo(b)fluoranthene	24.91	252	387	0.29	ng	# 72
27) Benzo(k)fluoranthene	24.94	252	867m	0.03	ng	
28) Benzo(a)pyrene	25.27	252	407	0.26	ng	# 66
29) Dibenzo(a,h)anthracene	26.78	278	279	0.24	ng	# 39
30) Benzo(g,h,i)perylene	27.16	276	1834	0.15	ng	# 59

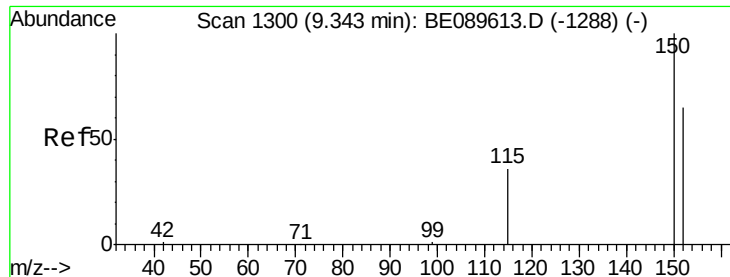
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
Data File : BE089638.D
Acq On : 19 Feb 2015 15:15
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 20 01:17:30 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





#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 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

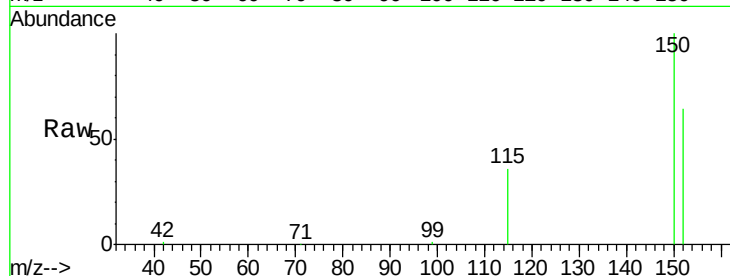
Tot Ion:152 Resp: 35006

Ion Ratio Lower Upper

152 100

150 156.8 122.4 183.6

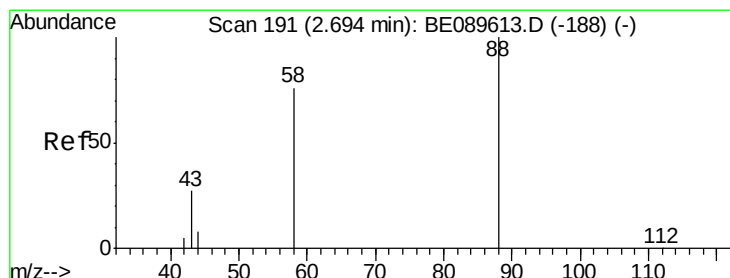
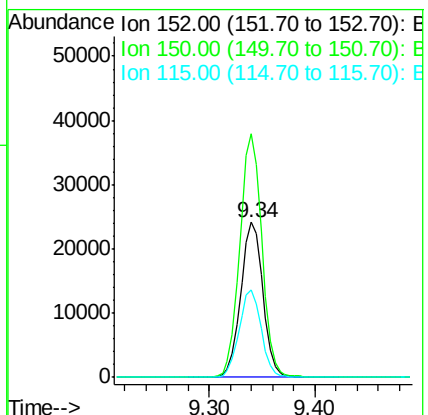
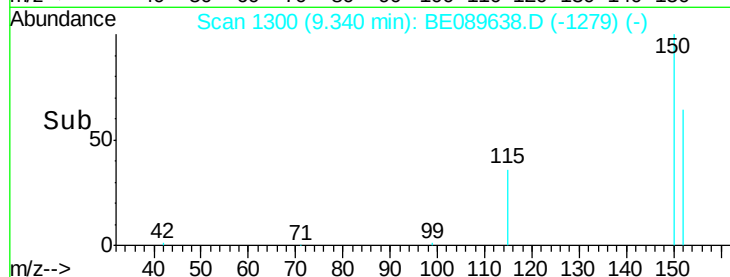
115 56.2 44.2 66.2



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: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

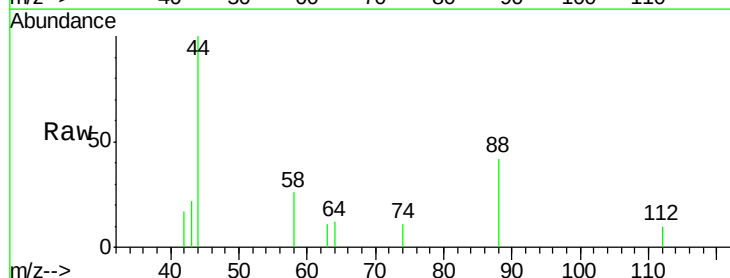
Tgt Ion: 88 Resp: 262

Ion Ratio Lower Upper

88 100

58 69.1 54.6 81.8

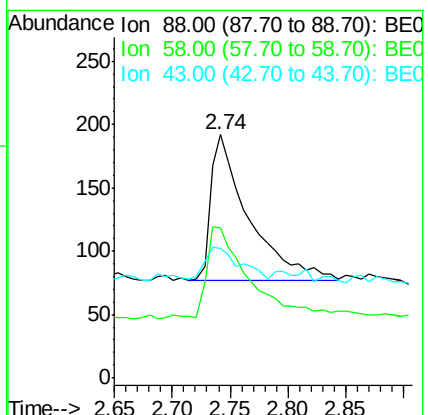
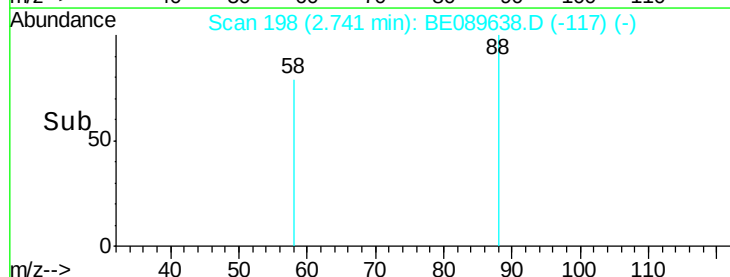
43 0.0 20.6 30.8#

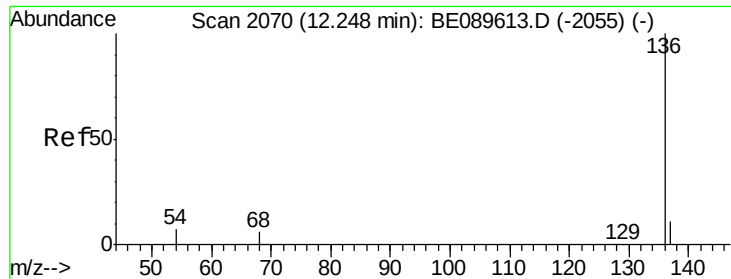


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2070

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

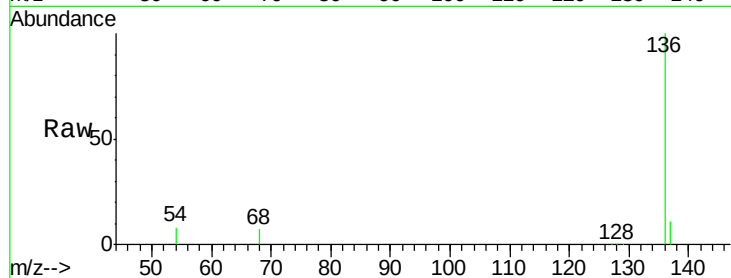
Tot Ion:136 Resp: 138578

Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

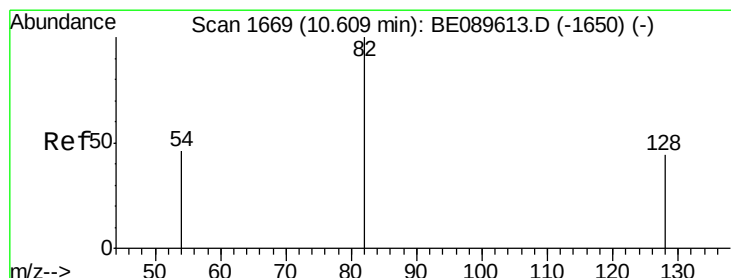
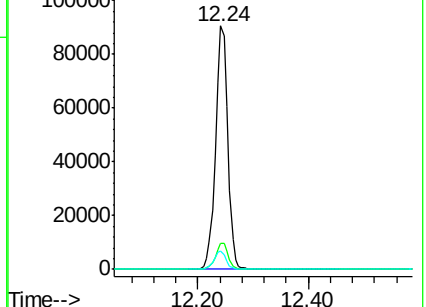
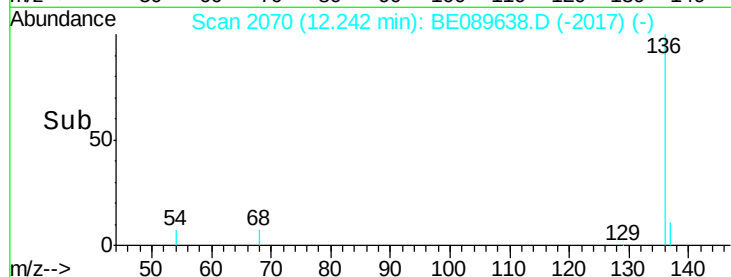
54 7.5 5.3 7.9



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: 10.30 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

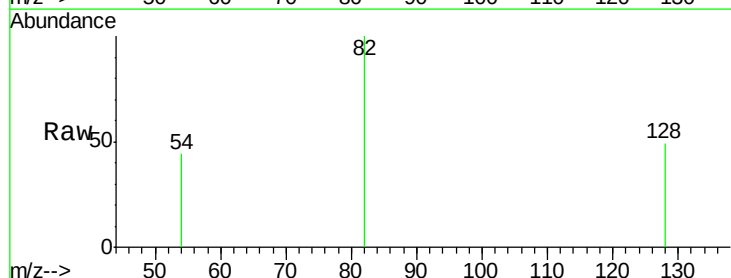
Tgt Ion: 82 Resp: 62021

Ion Ratio Lower Upper

82 100

128 48.9 35.5 53.3

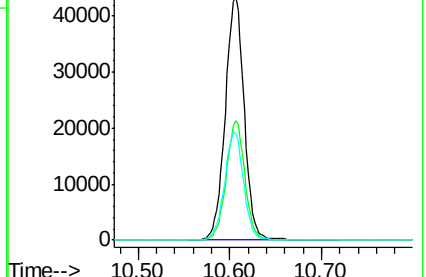
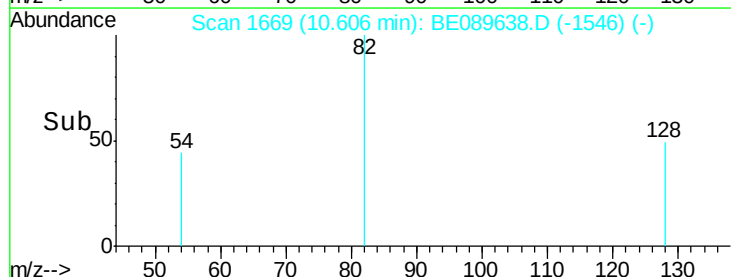
54 44.0 37.5 56.3

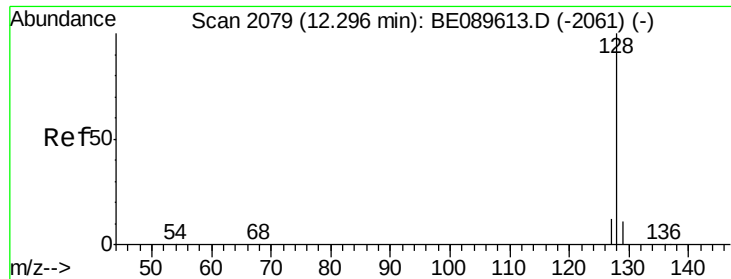


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

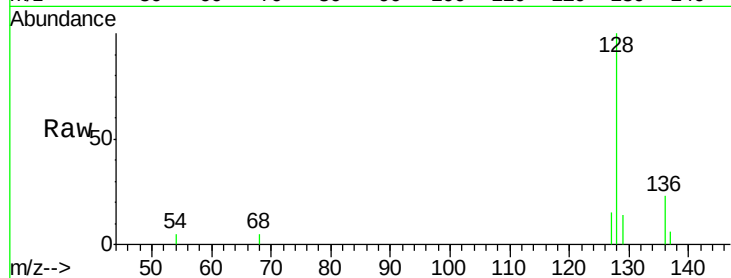
Tot Ion:128 Resp: 2186

Ion Ratio Lower Upper

128 100

129 14.0 8.9 13.3#

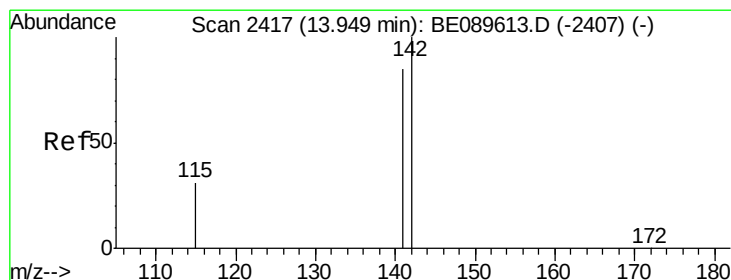
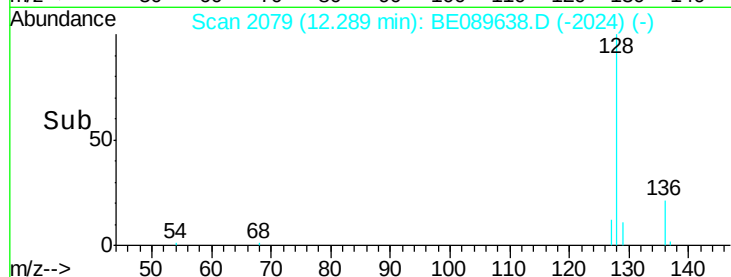
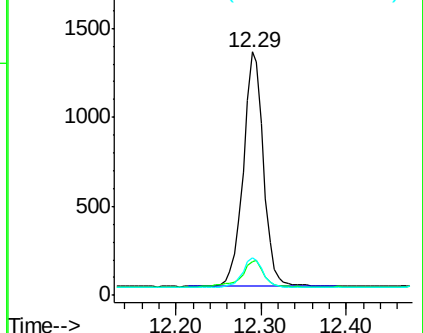
127 15.2 9.8 14.8#



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



#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 15:15

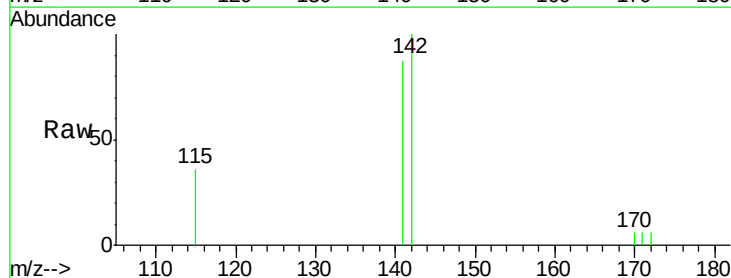
Tgt Ion:142 Resp: 1177

Ion Ratio Lower Upper

142 100

141 86.9 68.3 102.5

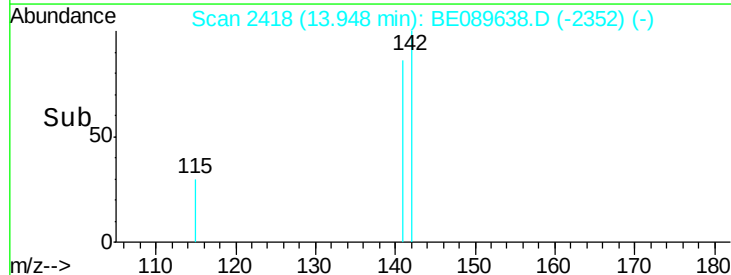
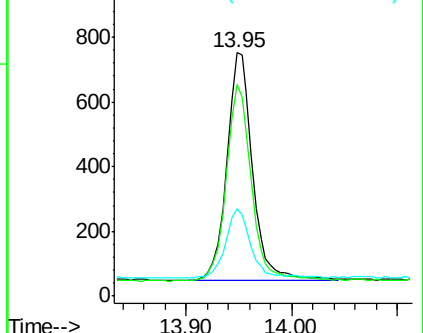
115 35.7 25.1 37.7

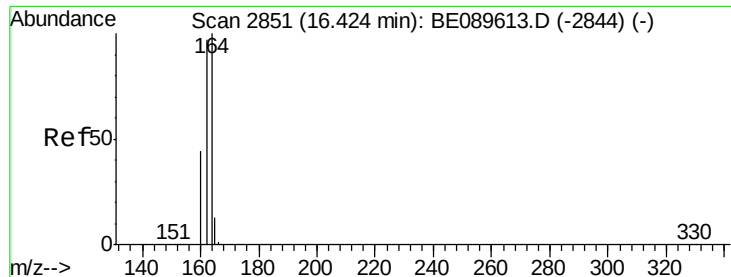


Abundance Ion 142.00 (141.70 to 142.70): E

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 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

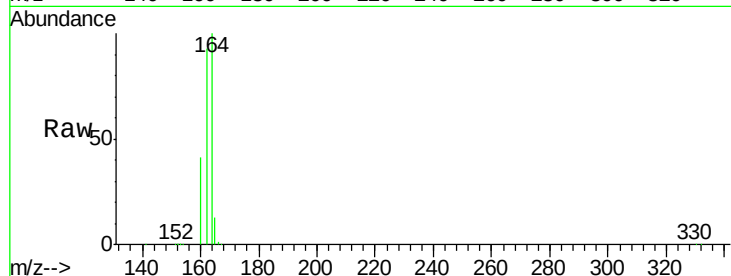
Tot Ion:164 Resp: 69078

Ion Ratio Lower Upper

164 100

162 92.7 77.5 116.3

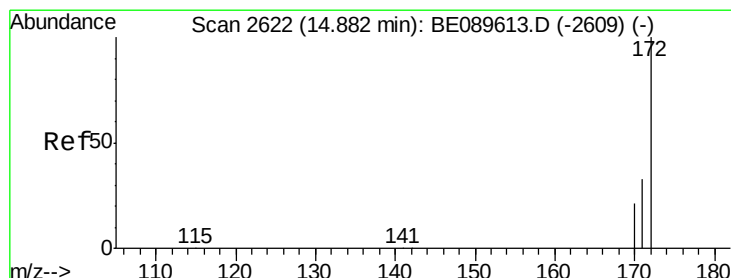
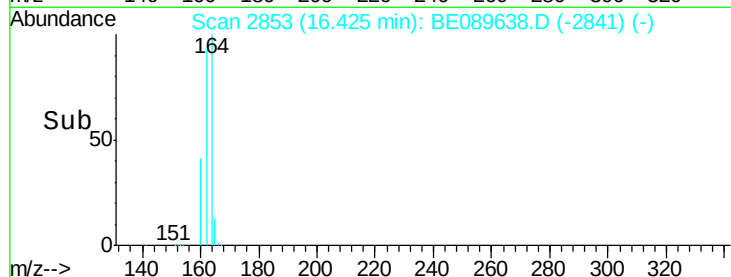
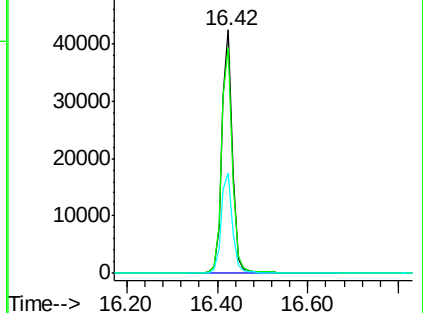
160 41.0 35.5 53.3



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: 8.92 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

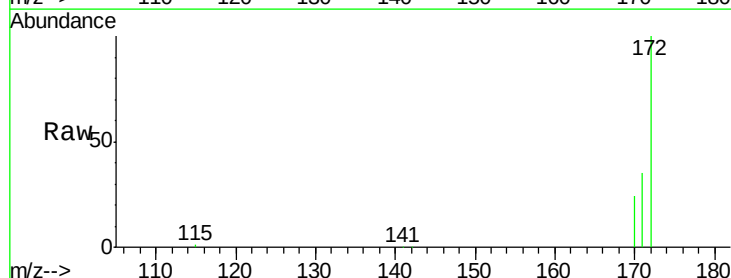
Tgt Ion:172 Resp: 164993

Ion Ratio Lower Upper

172 100

171 35.1 26.9 40.3

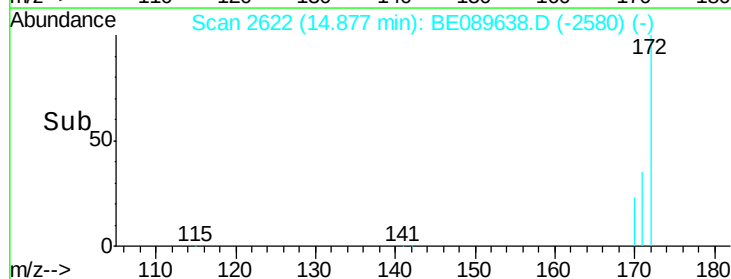
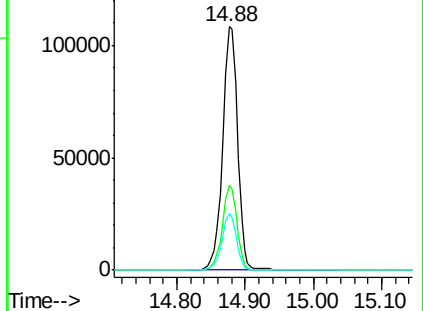
170 23.5 17.4 26.0

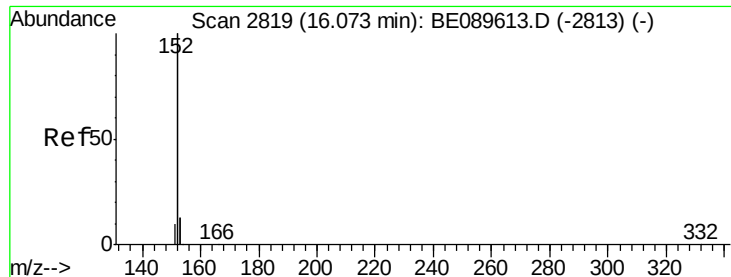


Abundance Ion 172.00 (171.70 to 172.70): E

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 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

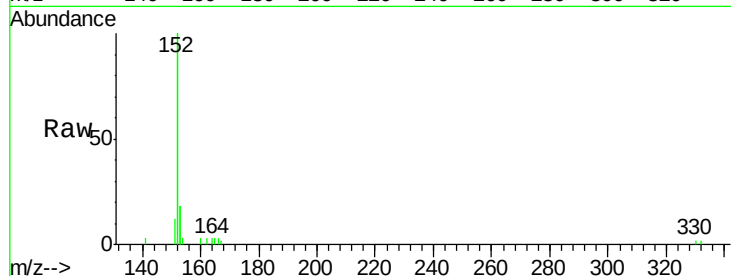
Tot Ion:152 Resp: 6421

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

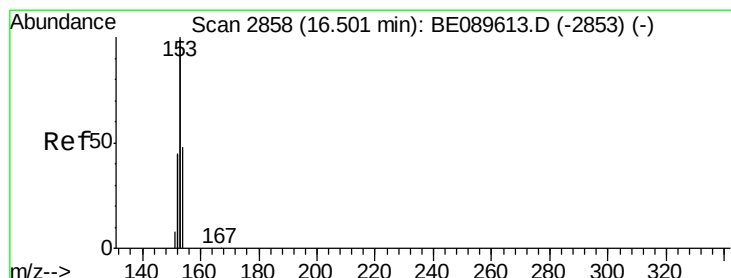
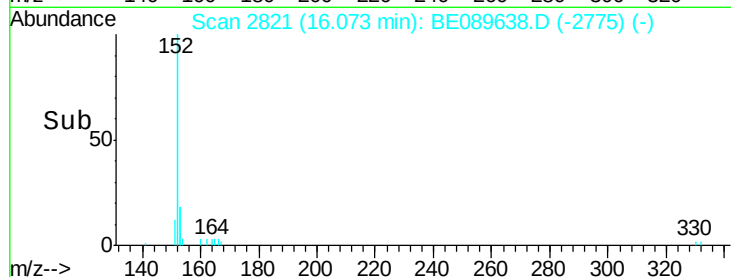
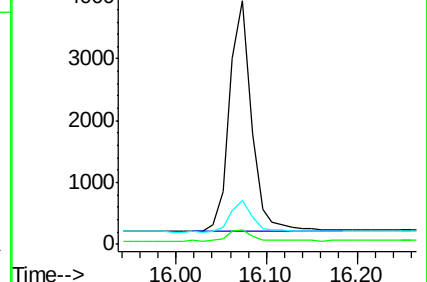
153 14.0 10.5 15.7



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: 16.49 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

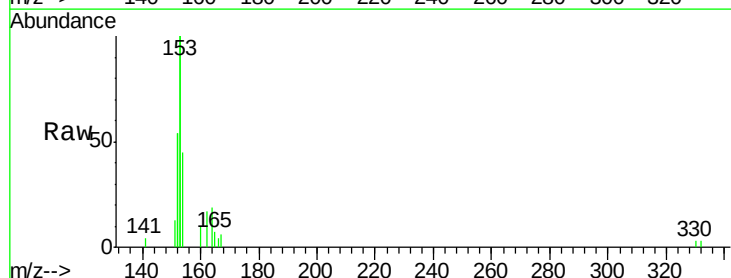
Tgt Ion:154 Resp: 1208

Ion Ratio Lower Upper

154 100

153 446.5 348.9 523.3

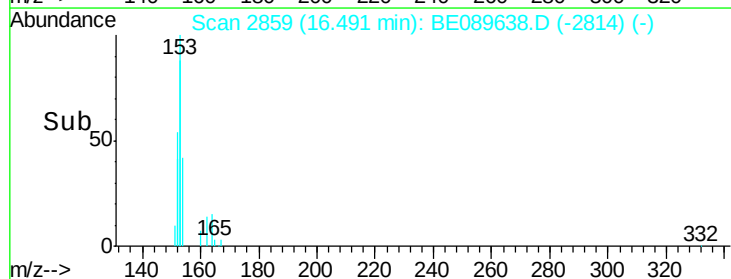
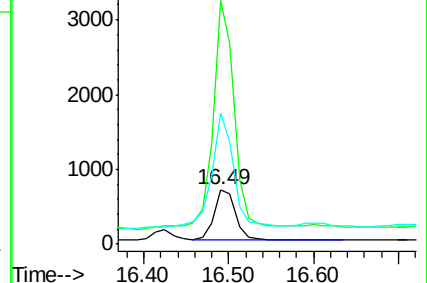
152 234.5 166.6 249.8

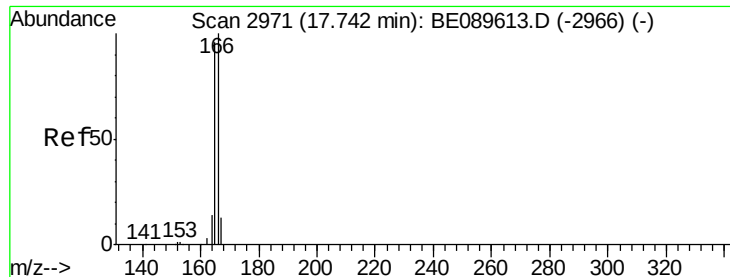


Abundance Ion 154.00 (153.70 to 154.70): E

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: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampled :

MDL-07-S

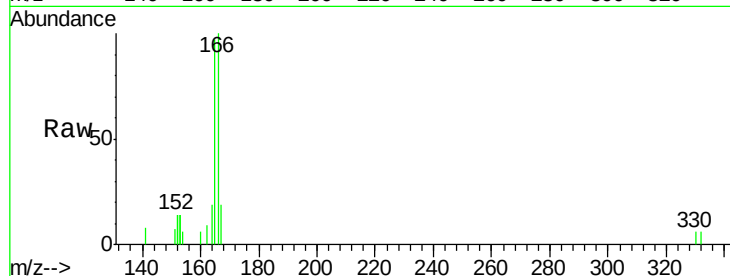
Tot Ion:166 Resp: 1342

Ion Ratio Lower Upper

166 100

165 93.1 74.7 112.1

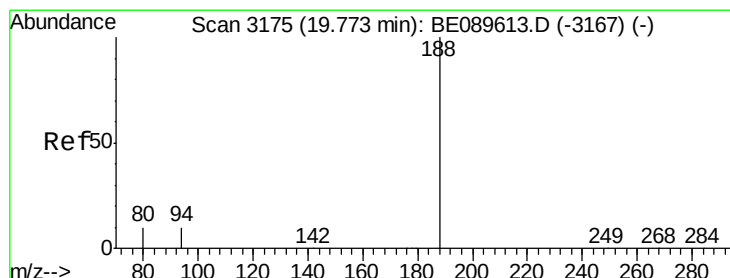
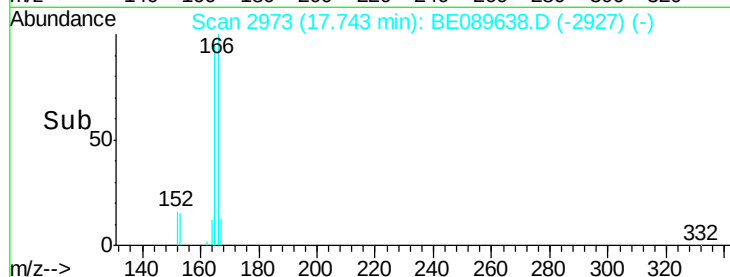
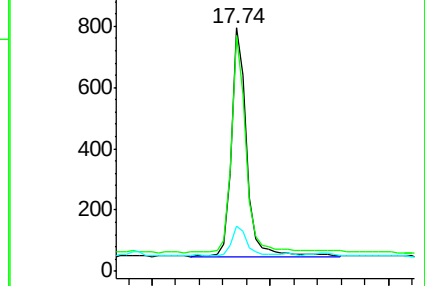
167 13.0 10.5 15.7



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: BE089638.D

Acq: 19 Feb 2015 15:15

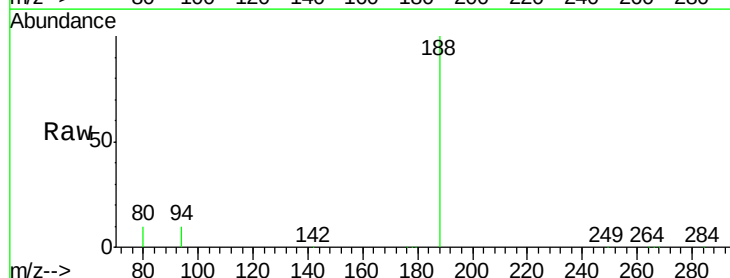
Tgt Ion:188 Resp: 134735

Ion Ratio Lower Upper

188 100

94 9.9 8.2 12.4

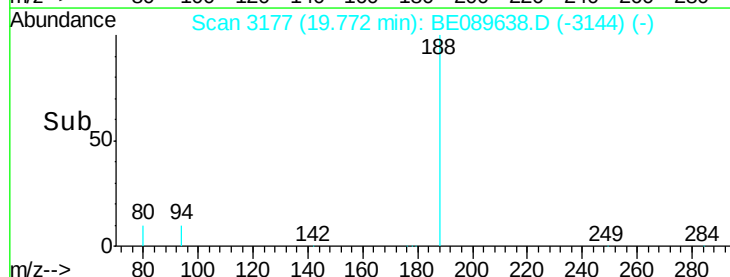
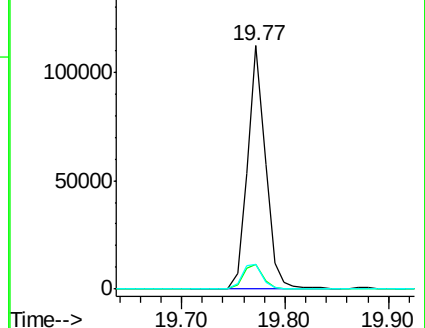
80 10.0 8.1 12.1

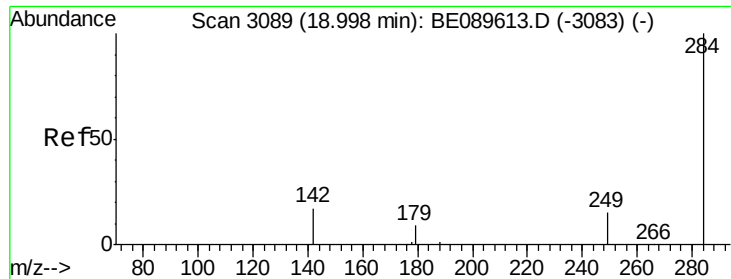


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

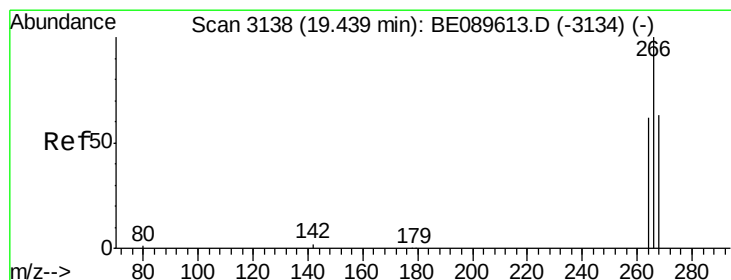
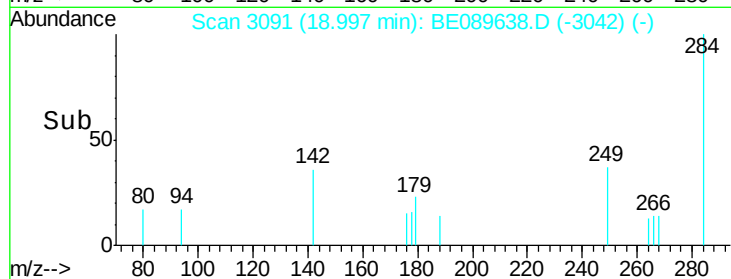
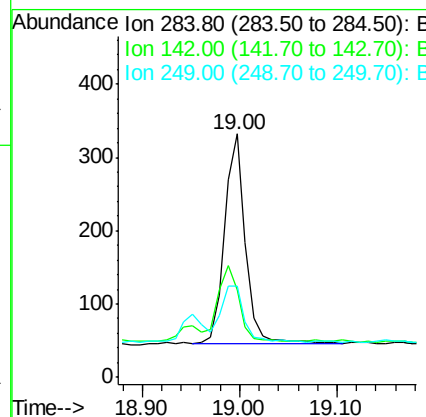
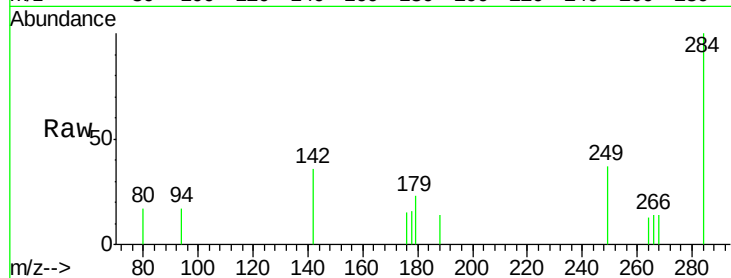




#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 19.00 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089638.D
Acq: 19 Feb 2015 15:15

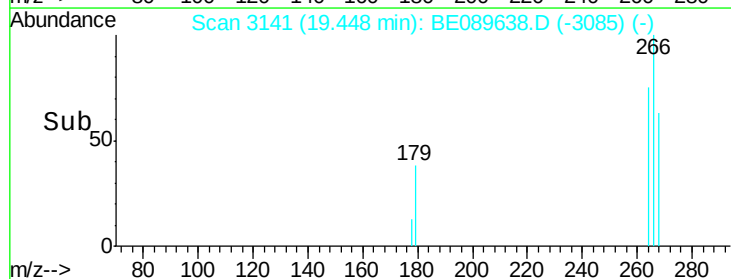
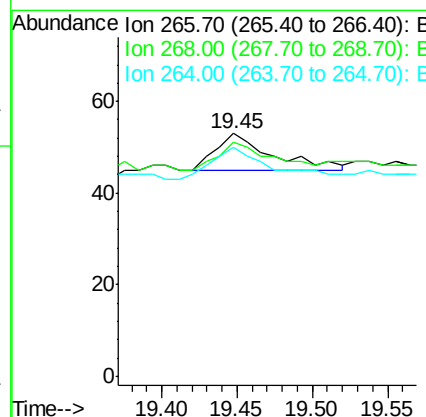
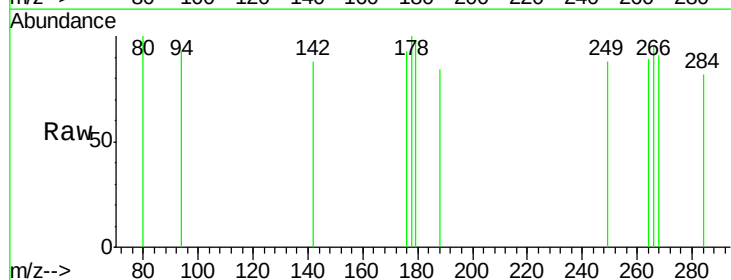
Instrument :
BNA_E
ClientSampleId :
MDL-07-S

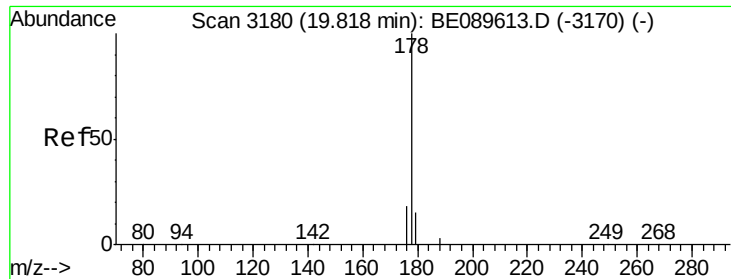
Tot Ion:284 Resp: 430
Ion Ratio Lower Upper
284 100
142 44.2 32.3 48.5
249 29.8 22.3 33.5



#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 15:15

Tgt Ion:266 Resp: 21
Ion Ratio Lower Upper
266 100
268 96.2 52.6 79.0#
264 94.3 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 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

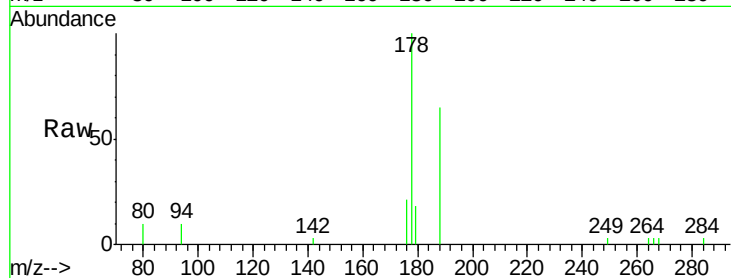
Tot Ion:178 Resp: 2294

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

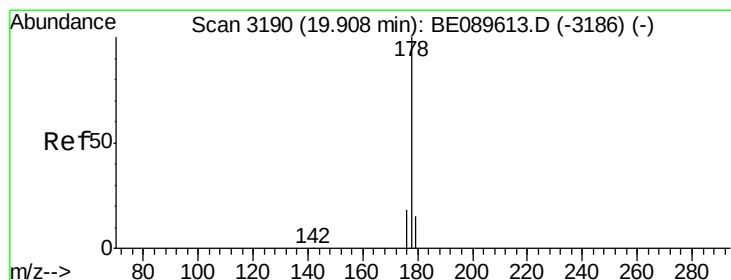
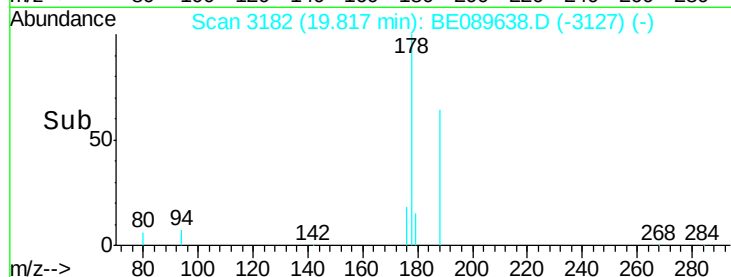
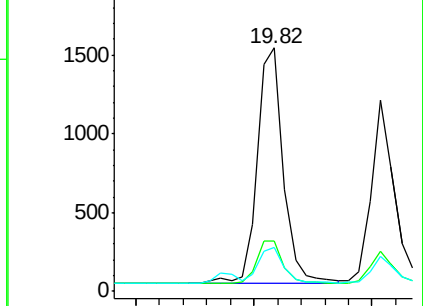
179 14.7 12.3 18.5



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: BE089638.D

Acq: 19 Feb 2015 15:15

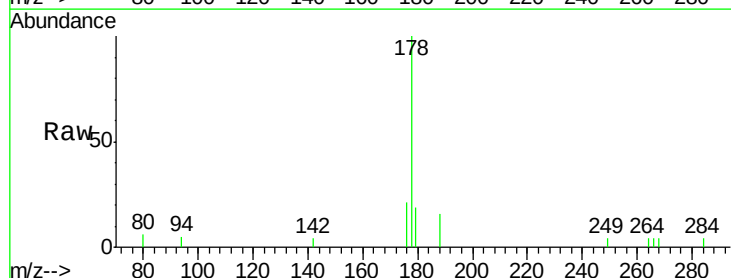
Tgt Ion:178 Resp: 1632

Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

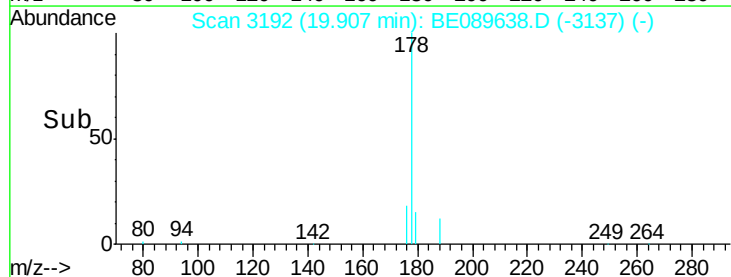
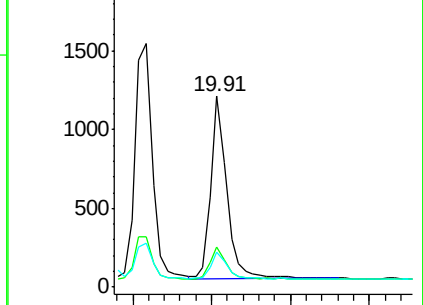
179 14.3 12.3 18.5

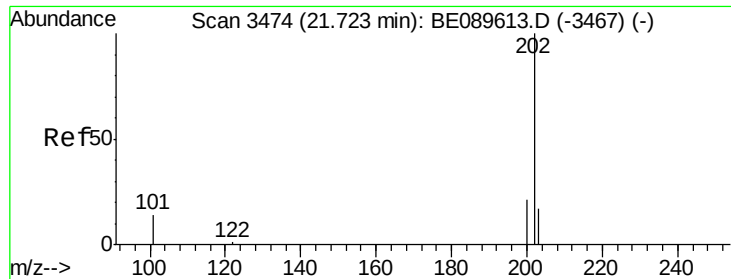


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

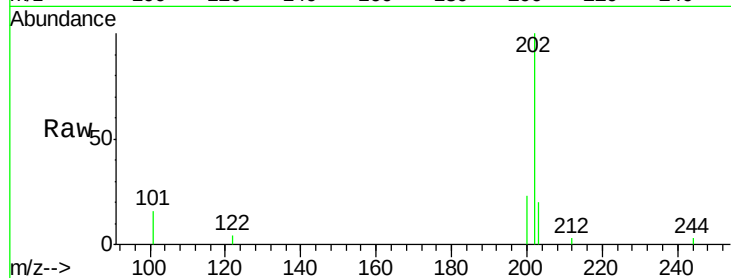




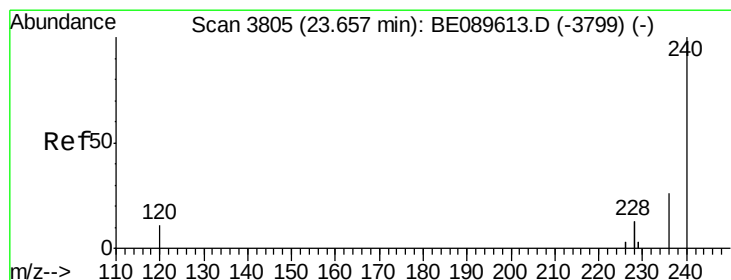
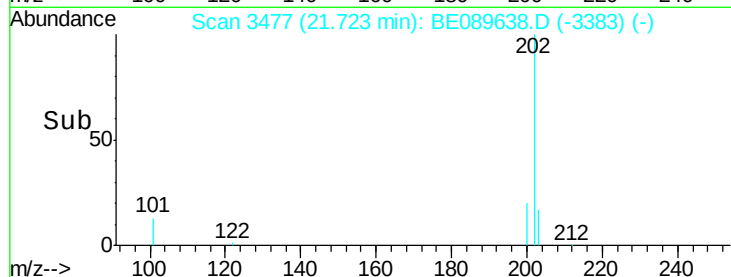
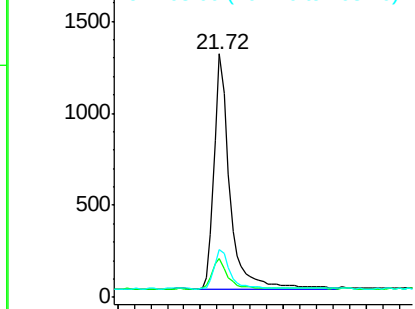
#18
Fluoranthene
Concen: 0.05 ng
RT: 21.72 min Scan# 3477
Delta R.T. 0.00 min
Lab File: BE089638.D
Acq: 19 Feb 2015 15:15

Instrument :
BNA_E
ClientSampleId :
MDL-07-S

Tot Ion:202 Resp: 1677
Ion Ratio Lower Upper
202 100
101 12.6 10.4 15.6
203 17.4 13.9 20.9

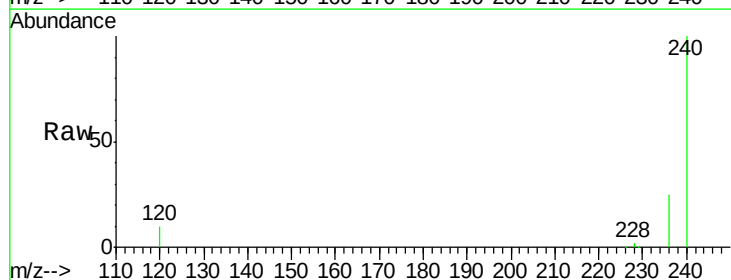


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

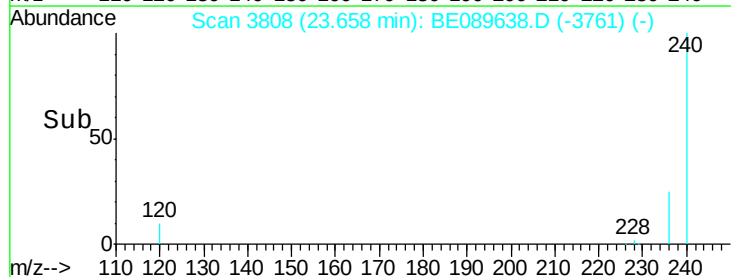
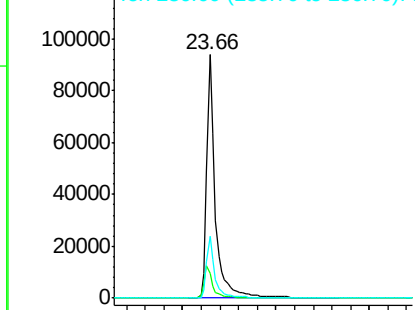


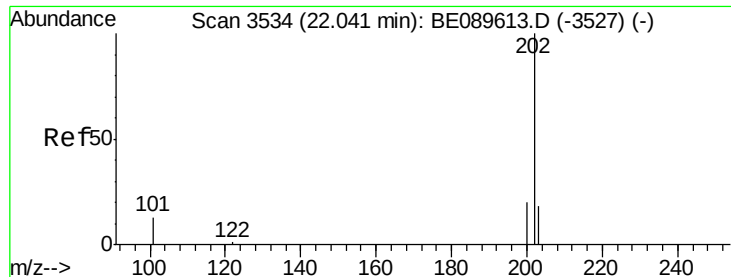
#19
Chrysene-d12
Concen: 5.00 ng
RT: 23.66 min Scan# 3808
Delta R.T. 0.00 min
Lab File: BE089638.D
Acq: 19 Feb 2015 15:15

Tgt Ion:240 Resp: 120602
Ion Ratio Lower Upper
240 100
120 10.1 9.0 13.4
236 25.4 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

Pvrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3537

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

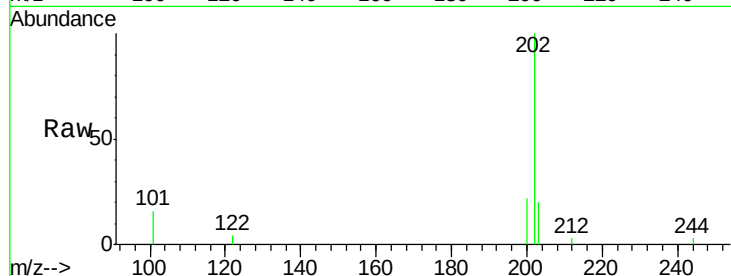
Tot Ion:202 Resp: 1779

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

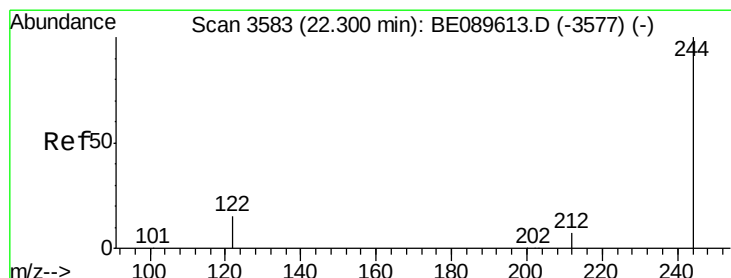
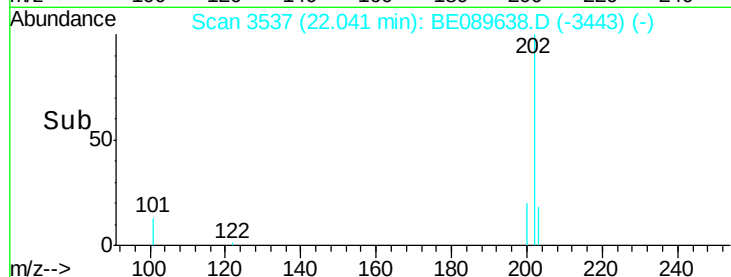
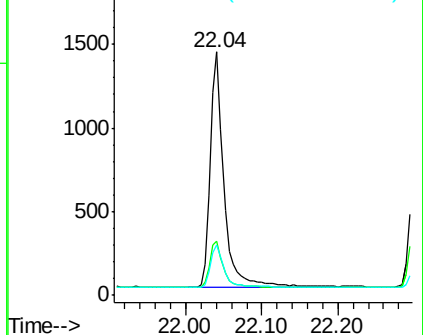
203 17.8 13.8 20.8



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: 11.34 ng

RT: 22.30 min Scan# 3586

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

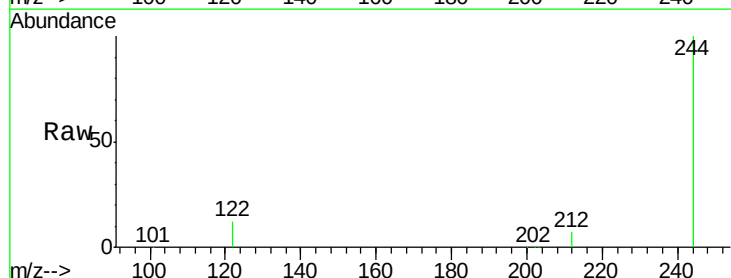
Tgt Ion:244 Resp: 196732

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

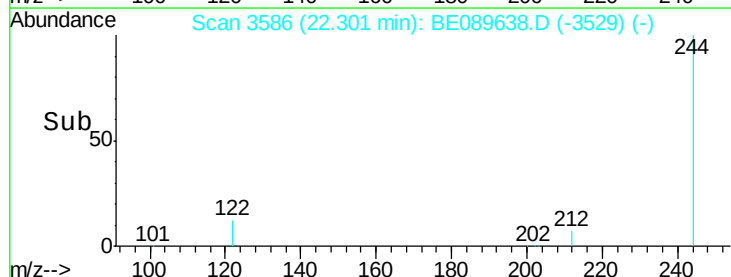
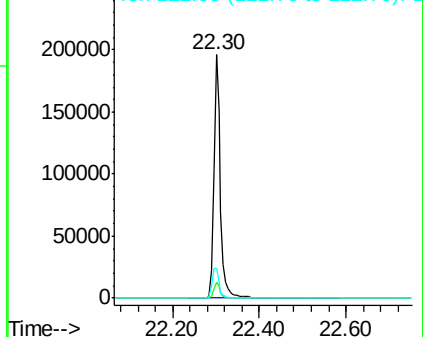
122 12.0 11.8 17.8

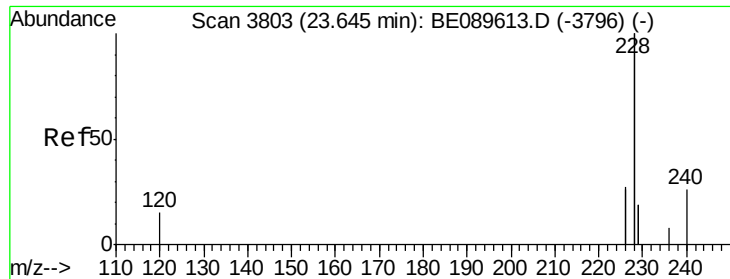


Abundance Ion 244.00 (243.70 to 244.70): E

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: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

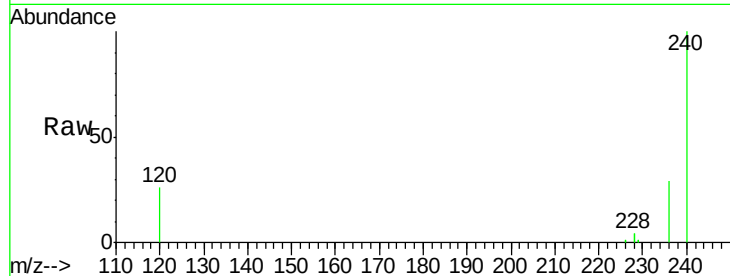
Tot Ion:228 Resp: 6031

Ion Ratio Lower Upper

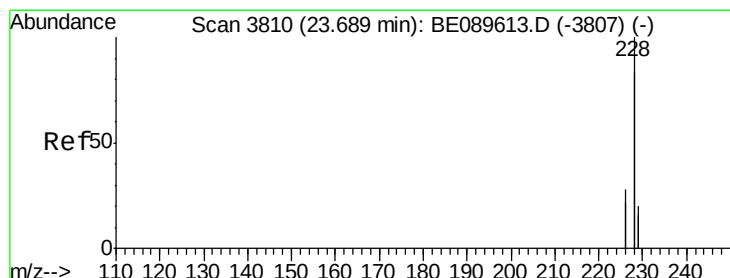
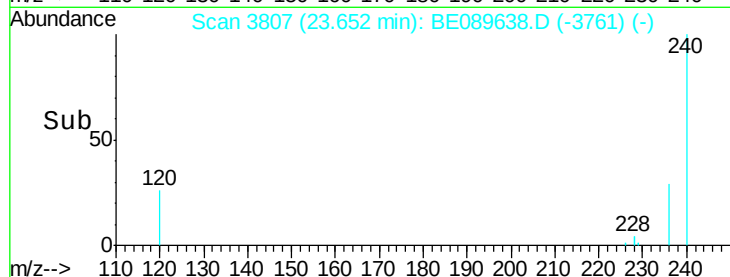
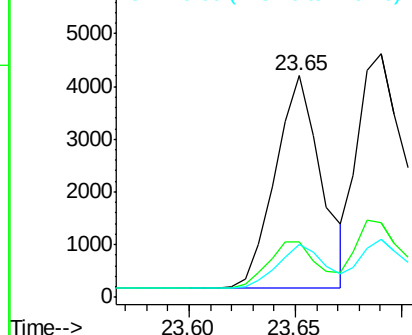
228 100

226 25.0 21.2 31.8

229 24.0 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 15:15

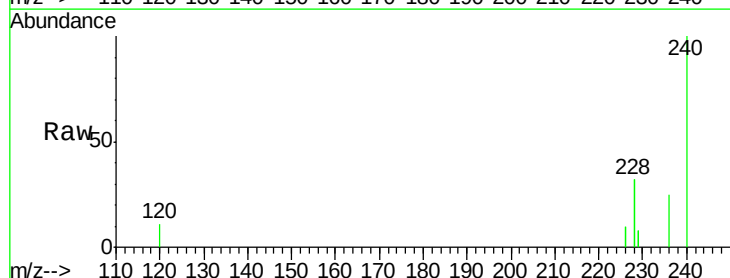
Tgt Ion:228 Resp: 9747

Ion Ratio Lower Upper

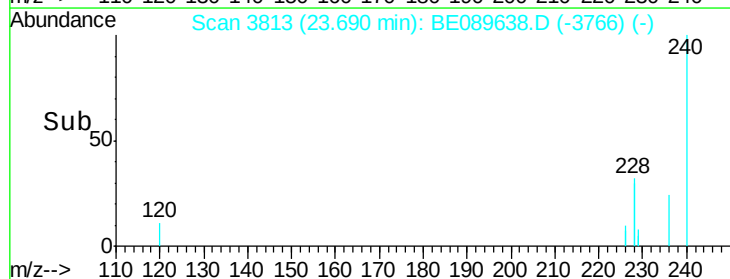
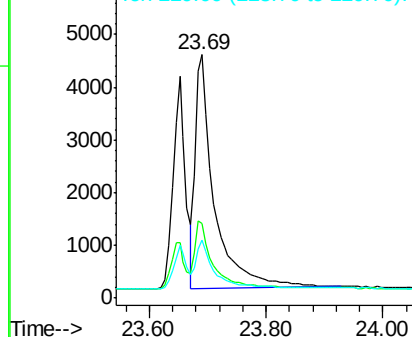
228 100

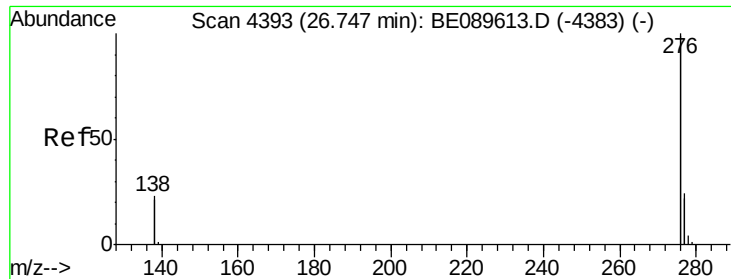
226 30.4 22.2 33.4

229 23.6 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

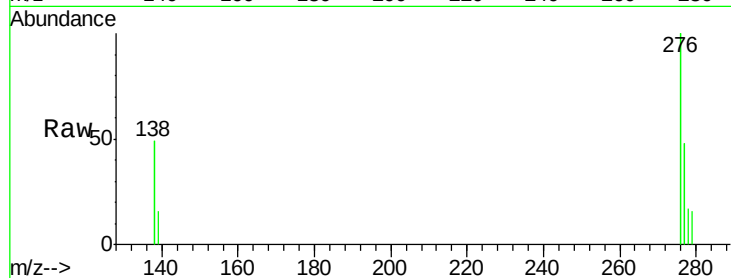




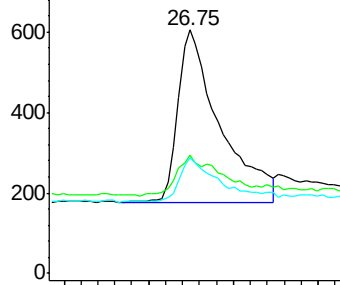
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.19 ng
RT: 26.75 min Scan# 4396
Delta R.T. 0.00 min
Lab File: BE089638.D
Acq: 19 Feb 2015 15:15

Instrument :
BNA_E
ClientSampleId :
MDL-07-S

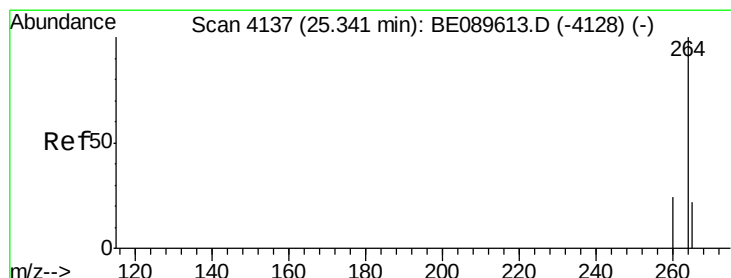
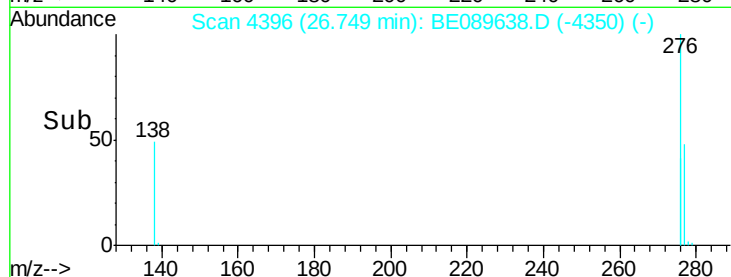
Tot Ion:276 Resp: 1478
Ion Ratio Lower Upper
276 100
138 26.0 21.4 32.2
277 26.1 19.9 29.9



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

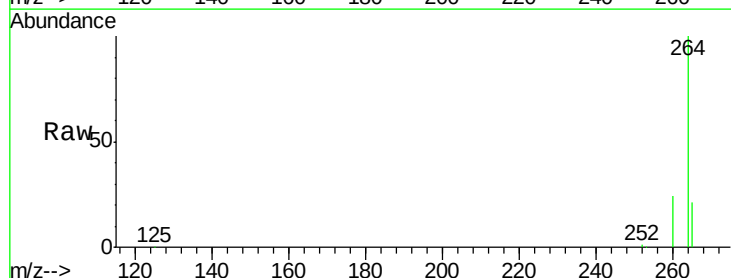


Time--> 26.60 26.70 26.80 26.90

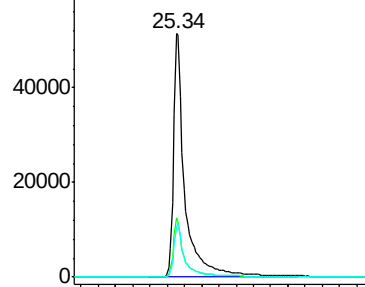


#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4139
Delta R.T. -0.00 min
Lab File: BE089638.D
Acq: 19 Feb 2015 15:15

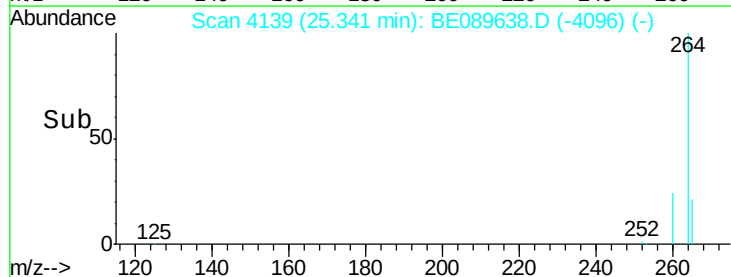
Tgt Ion:264 Resp: 95783
Ion Ratio Lower Upper
264 100
260 24.1 19.0 28.6
265 20.9 17.4 26.0

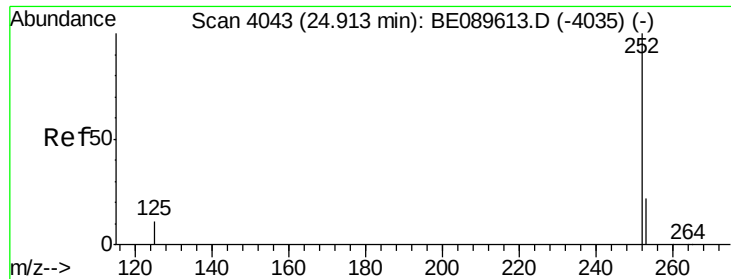


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time--> 25.20 25.40 25.60





#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 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

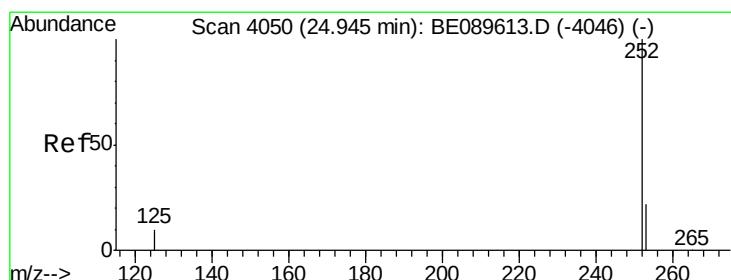
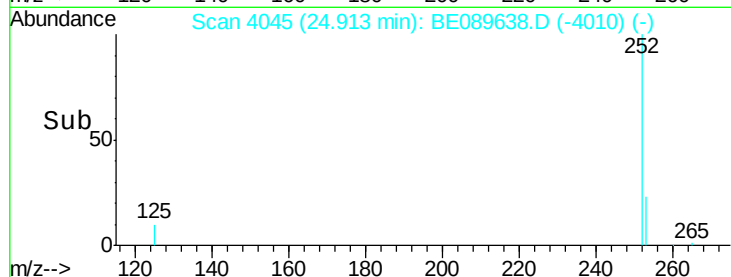
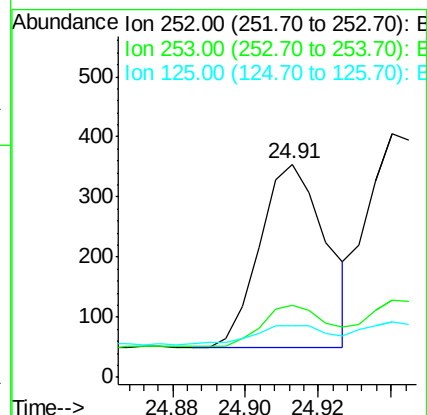
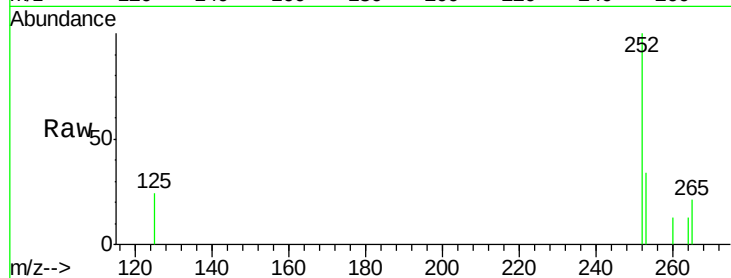
Tot Ion:252 Resp: 387

Ion Ratio Lower Upper

252 100

253 33.5 17.6 26.4#

125 24.2 8.8 13.2#



#27

Benzo(k)fluoranthene

Concen: 0.03 ng m

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

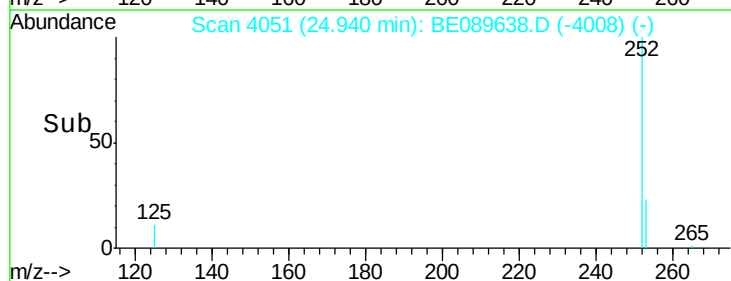
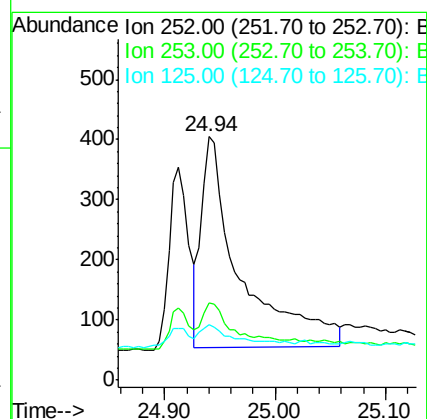
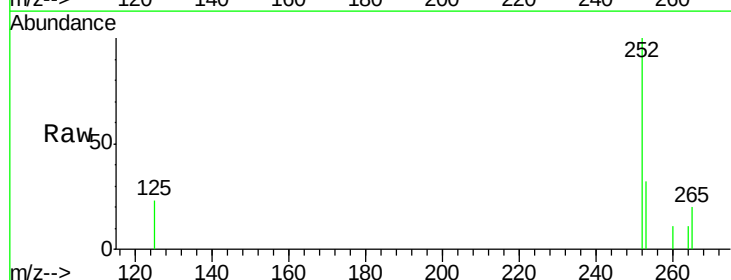
Tgt Ion:252 Resp: 867

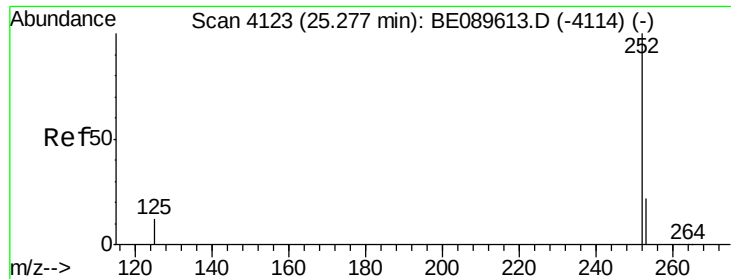
Ion Ratio Lower Upper

252 100

253 31.9 17.7 26.5#

125 23.0 8.8 13.2#





#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4124

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

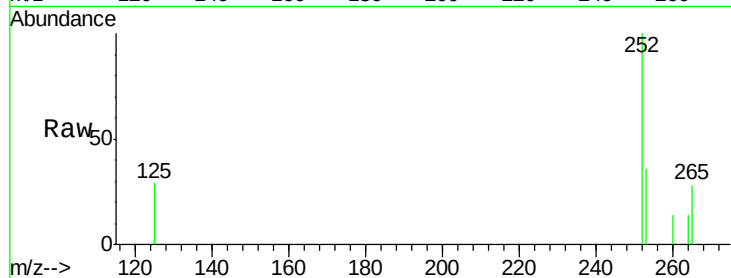
Tot Ion:252 Resp: 407

Ion Ratio Lower Upper

252 100

253 36.4 18.1 27.1#

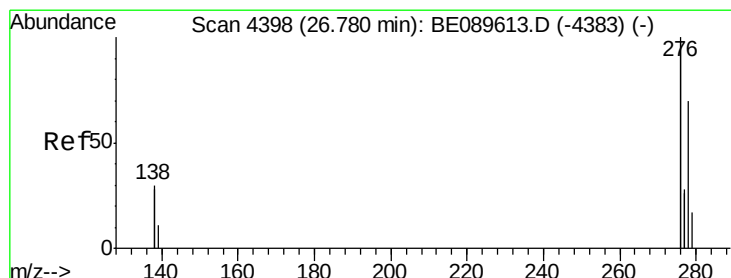
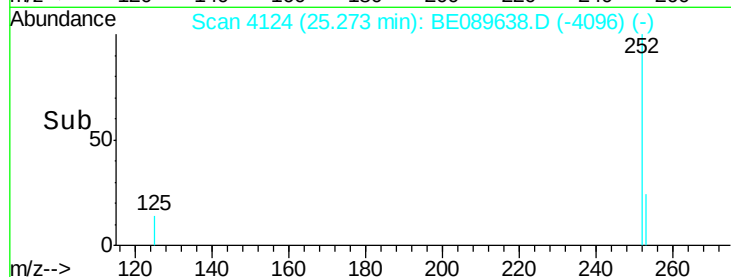
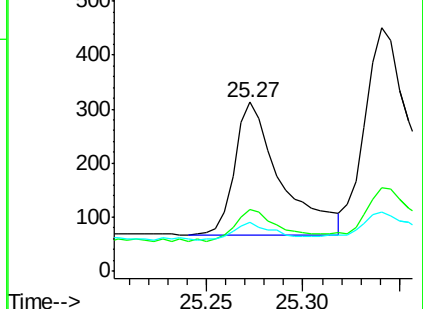
125 28.8 9.6 14.4#



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: 26.78 min Scan# 4401

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

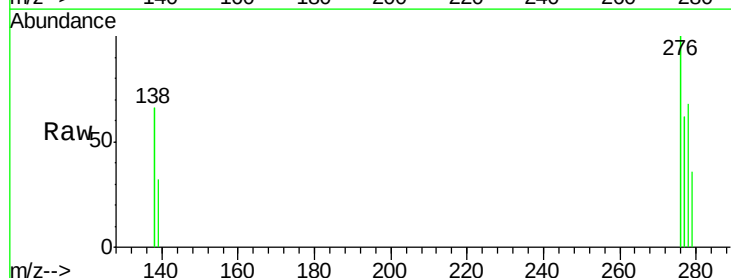
Tgt Ion:278 Resp: 279

Ion Ratio Lower Upper

278 100

139 46.5 13.7 20.5#

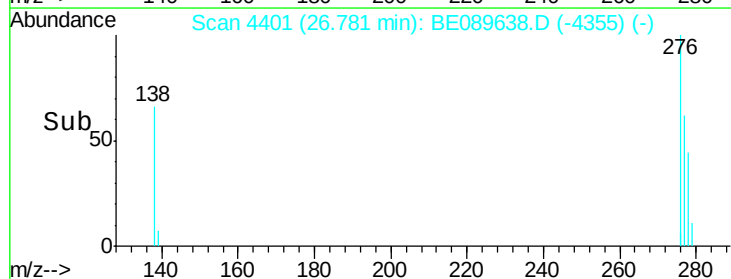
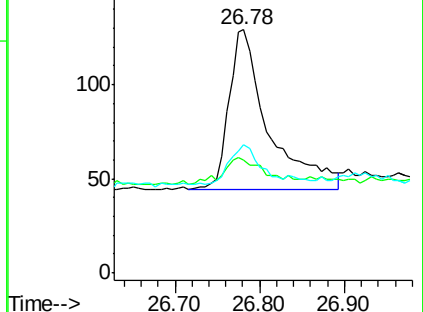
279 52.7 19.7 29.5#

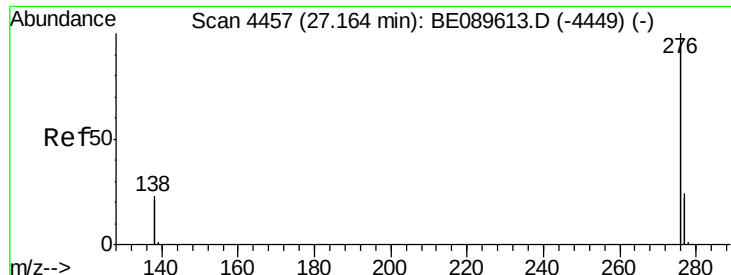


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(a,h,i)perylene

Concen: 0.15 ng

RT: 27.16 min Scan# 4459

Delta R.T. -0.00 min

Lab File: BE089638.D

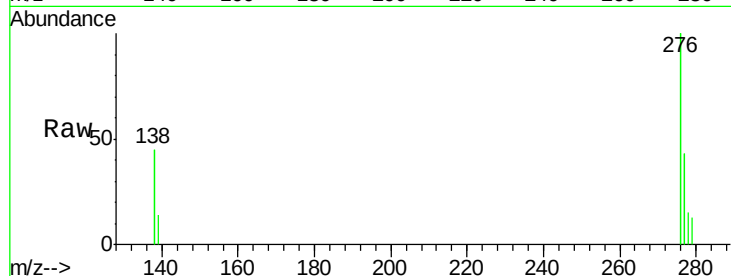
Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

MDL-07-S



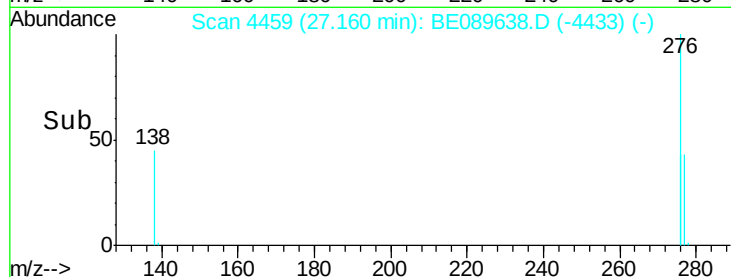
Tot Ion: 276 Resp: 1834

Ion Ratio Lower Upper

276 100

277 43.1 19.1 28.7#

138 44.8 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

