

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089678.D
 Acq On : 24 Feb 2015 19:35
 Operator : TP/JJ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

Quant Time: Feb 25 04:19:45 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

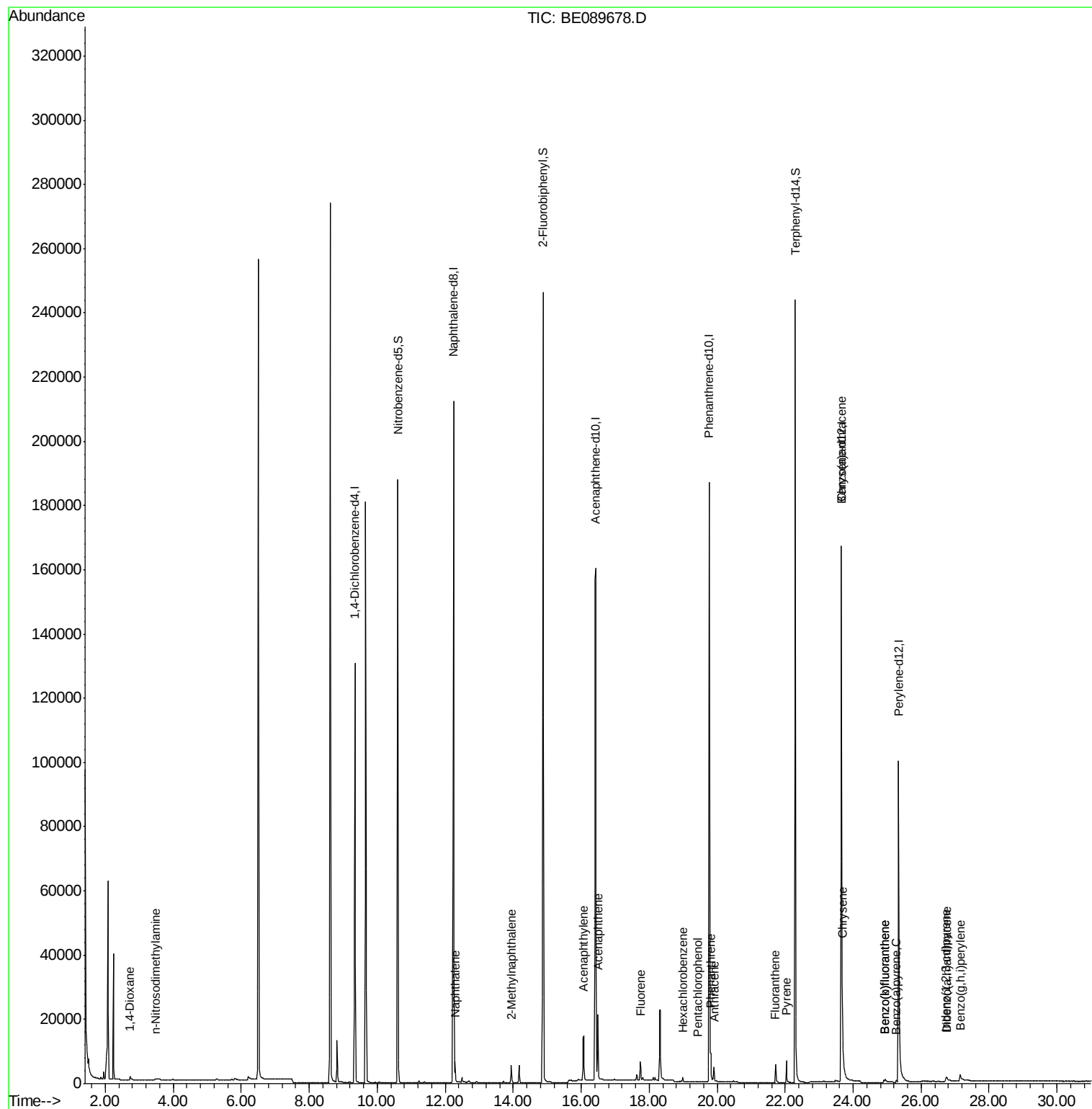
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	56180	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	238415	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	109029	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	200048	5.00	ng	0.00
19) Chrysene-d12	23.66	240	151017	5.00	ng	0.00
25) Perylene-d12	25.34	264	115041	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	127746	9.02	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	227682	9.39	ng	0.00
21) Terphenyl-d14	22.30	244	212289	11.98	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.72	88	986	0.14	ng	# 82
3) n-Nitrosodimethylamine	3.48	42	1253	0.21	ng	# 89
6) Naphthalene	12.29	128	7443	0.16	ng	98
7) 2-Methylnaphthalene	13.95	142	3887	0.15	ng	98
10) Acenaphthylene	16.07	152	21299	0.14	ng	100
11) Acenaphthene	16.49	154	3840	0.15	ng	98
12) Fluorene	17.74	166	4294	0.16	ng	99
14) Hexachlorobenzene	18.99	284	838	0.16	ng	99
15) Pentachlorophenol	19.43	266	57	0.32	ng	# 73
16) Phenanthrene	19.81	178	6798	0.16	ng	98
17) Anthracene	19.91	178	5142	0.14	ng	99
18) Fluoranthene	21.72	202	5114	0.14	ng	98
20) Pyrene	22.04	202	5530	0.15	ng	99
22) Benzo(a)anthracene	23.64	228	17769	0.18	ng	98
23) Chrysene	23.68	228	23022	0.17	ng	97
24) Indeno(1,2,3-cd)pyrene	26.73	276	3767	0.31	ng	# 54
26) Benzo(b)fluoranthene	24.94	252	2104	0.46	ng	97
27) Benzo(k)fluoranthene	24.94	252	2104	0.21	ng	95
28) Benzo(a)pyrene	25.27	252	1072	0.16	ng	# 91
29) Dibenzo(a,h)anthracene	26.77	278	646	0.36	ng	# 86
30) Benzo(g,h,i)perylene	27.15	276	5558	0.39	ng	# 91

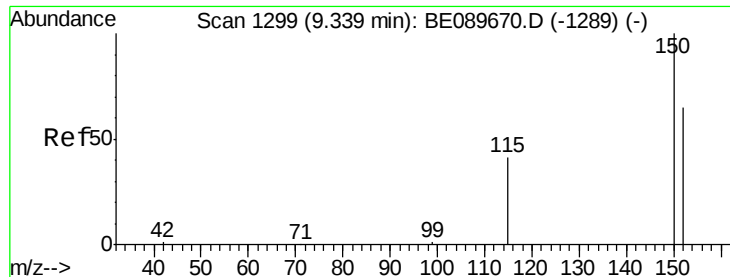
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

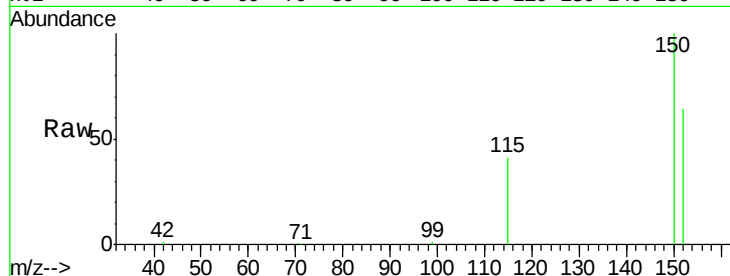
Tgt Ion: 152 Resp: 56180

Ion Ratio Lower Upper

152 100

150 156.0 123.4 185.0

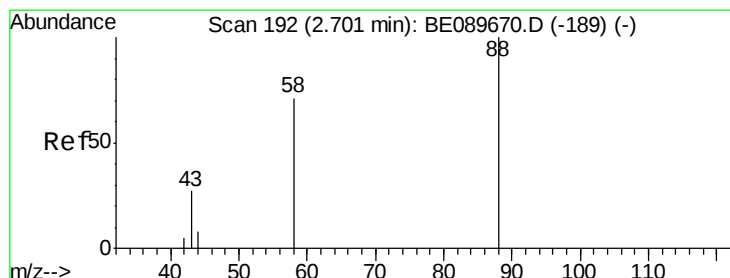
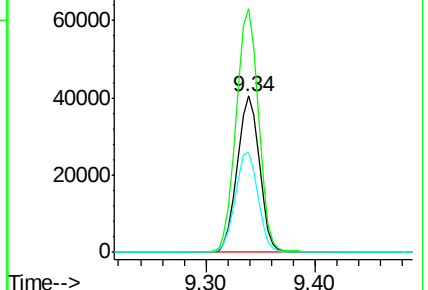
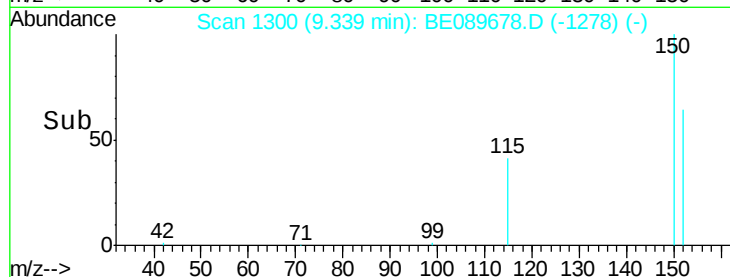
115 64.3 50.8 76.2



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: 0.14 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.02 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

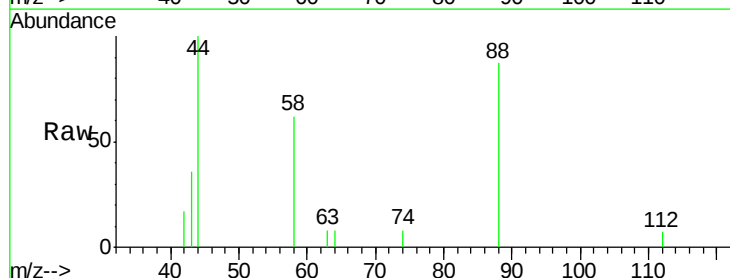
Tgt Ion: 88 Resp: 986

Ion Ratio Lower Upper

88 100

58 78.2 62.4 93.6

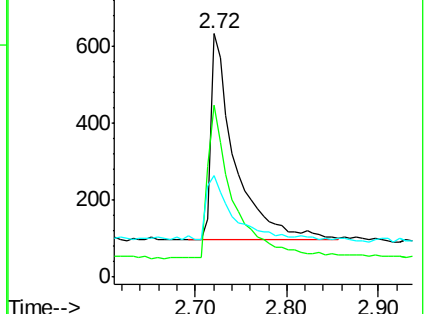
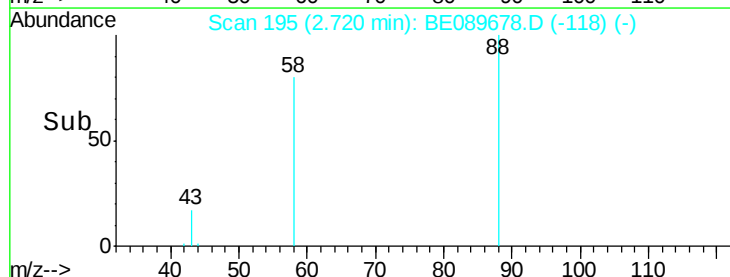
43 0.0 26.6 40.0#

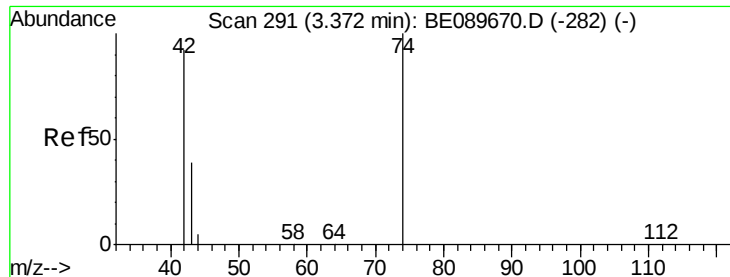


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



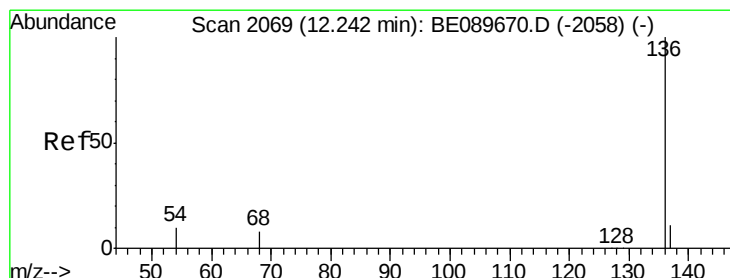
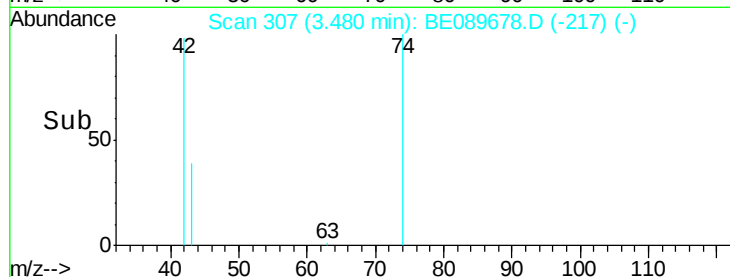
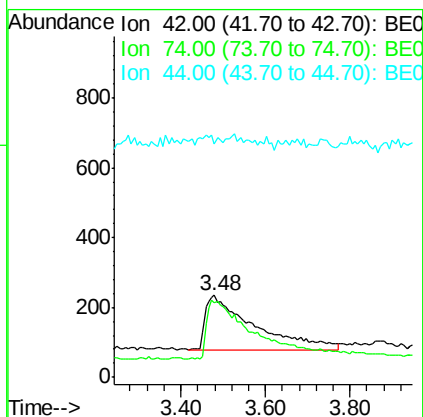
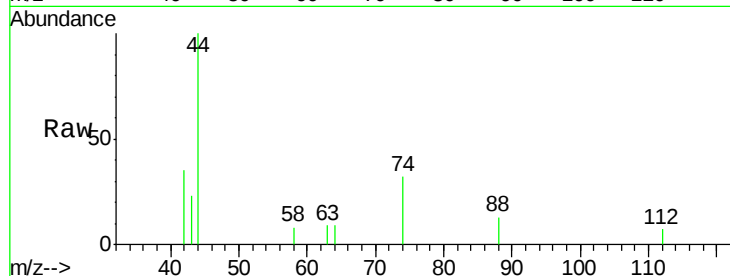


#3

n-Nitrosodimethylamine
Concen: 0.21 ng
RT: 3.48 min Scan# 307
Delta R.T. 0.11 min
Lab File: BE089678.D
Acq: 24 Feb 2015 19:35

Instrument :
BNA_E
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MDL-04-S

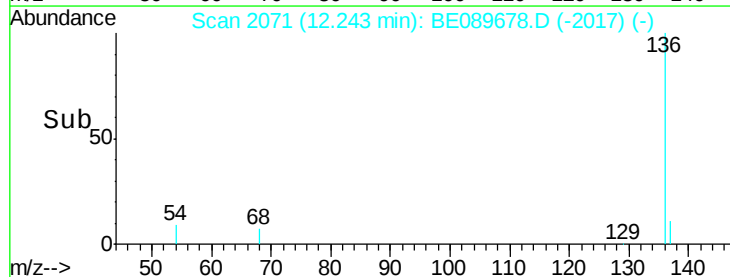
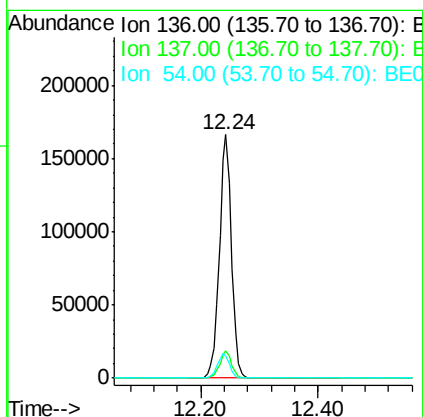
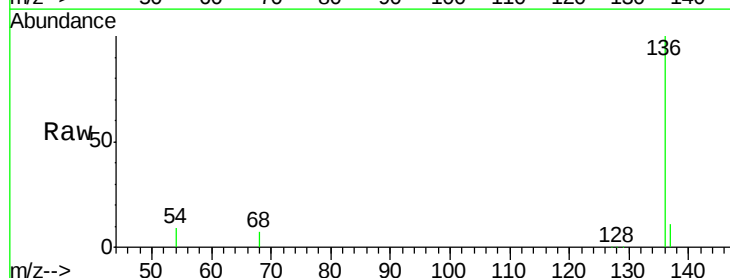
Tgt Ion: 42 Resp: 1253
Ion Ratio Lower Upper
42 100
74 102.7 91.1 136.7
44 0.0 4.7 7.1#

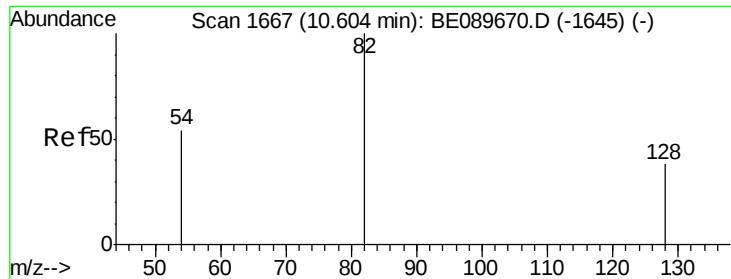


#4

Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2071
Delta R.T. 0.00 min
Lab File: BE089678.D
Acq: 24 Feb 2015 19:35

Tgt Ion: 136 Resp: 238415
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 9.0 7.8 11.8





#5

Nitrobenzene-d5

Concen: 9.02 ng

RT: 10.60 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

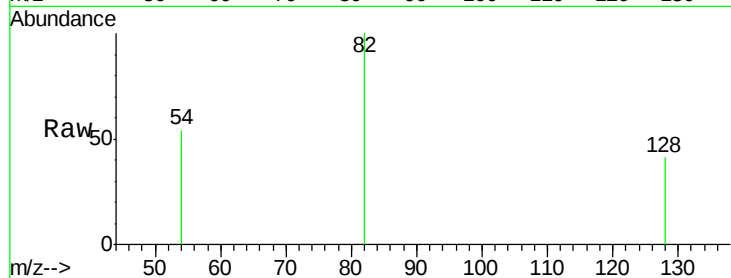
Tgt Ion: 82 Resp: 127746

Ion Ratio Lower Upper

82 100

128 40.7 30.6 46.0

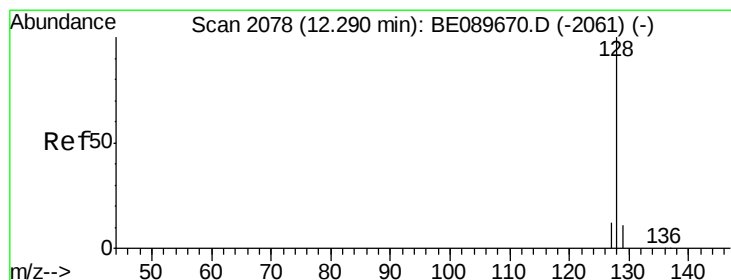
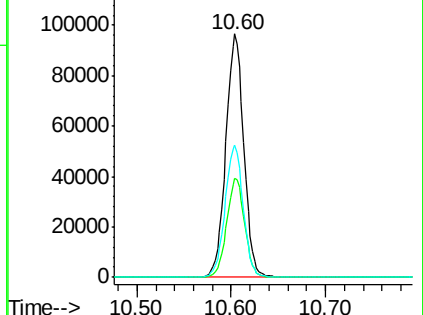
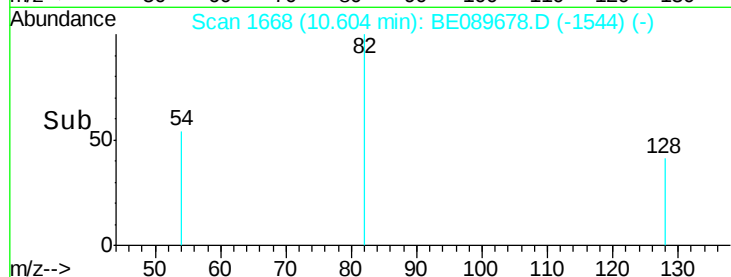
54 54.2 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.16 ng

RT: 12.29 min Scan# 2080

Delta R.T. 0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

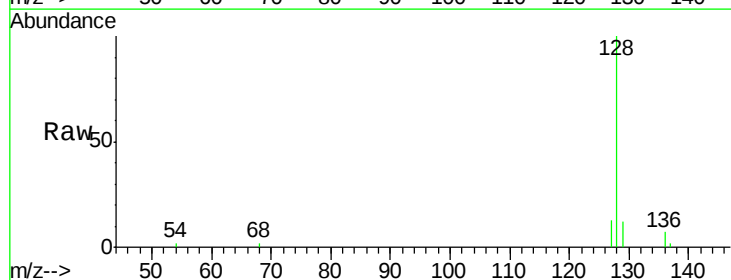
Tgt Ion: 128 Resp: 7443

Ion Ratio Lower Upper

128 100

129 11.6 8.9 13.3

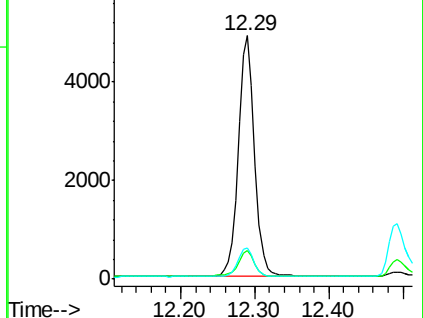
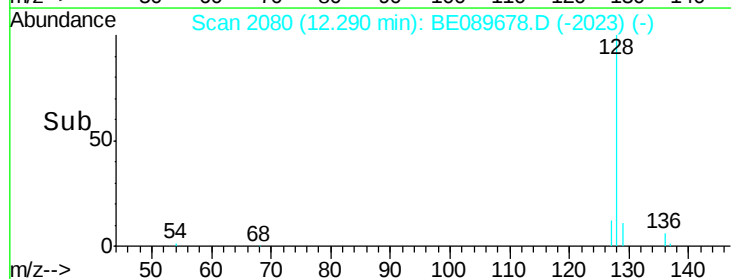
127 13.1 9.7 14.5

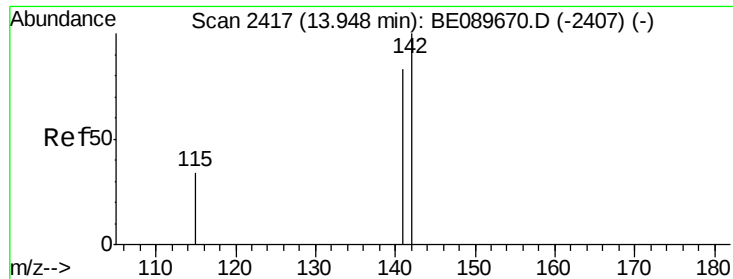


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.15 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

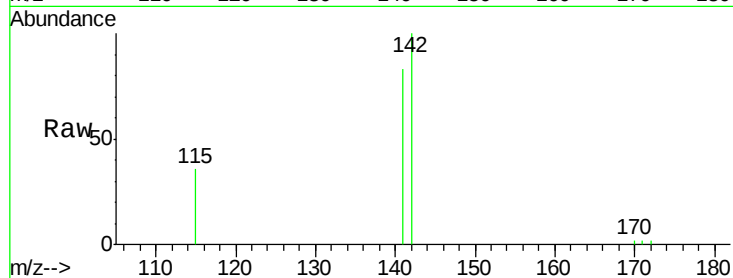
Tgt Ion:142 Resp: 3887

Ion Ratio Lower Upper

142 100

141 83.4 66.0 99.0

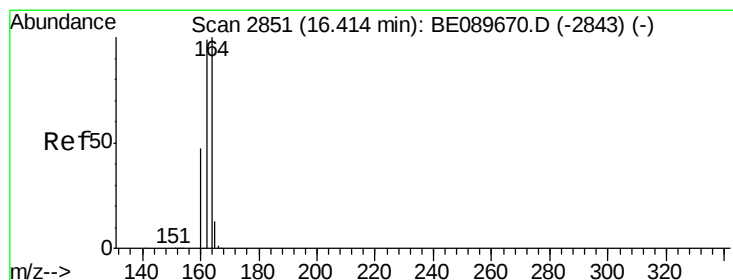
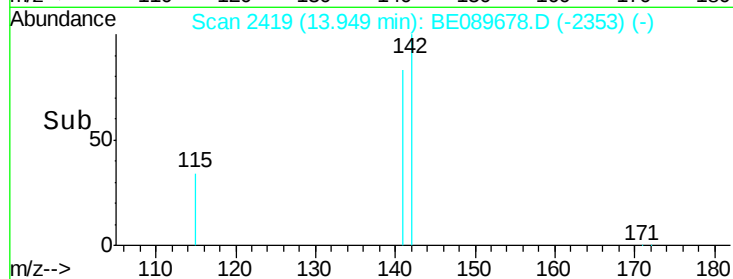
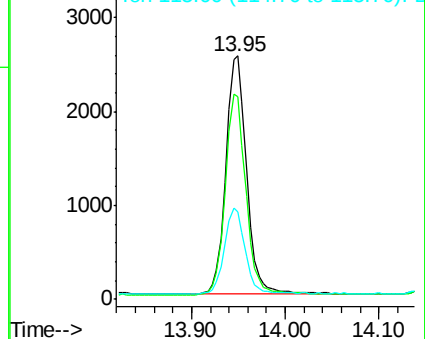
115 35.8 27.4 41.0



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. 0.01 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

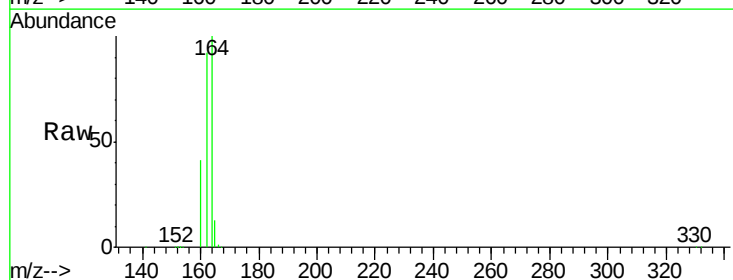
Tgt Ion:164 Resp: 109029

Ion Ratio Lower Upper

164 100

162 91.8 79.4 119.2

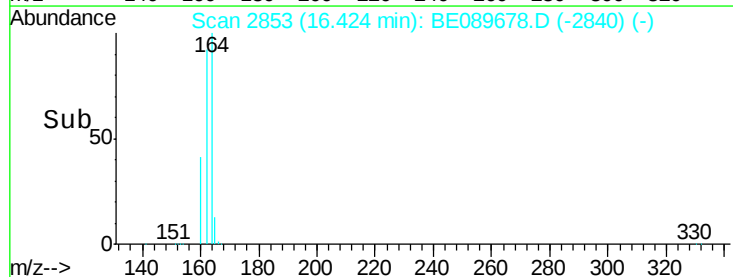
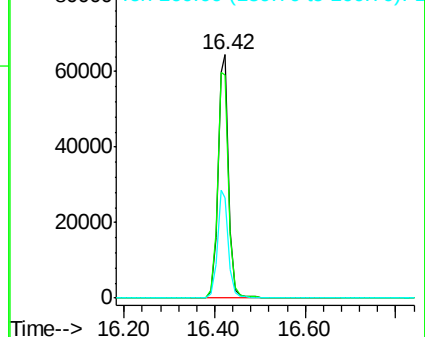
160 41.4 37.6 56.4

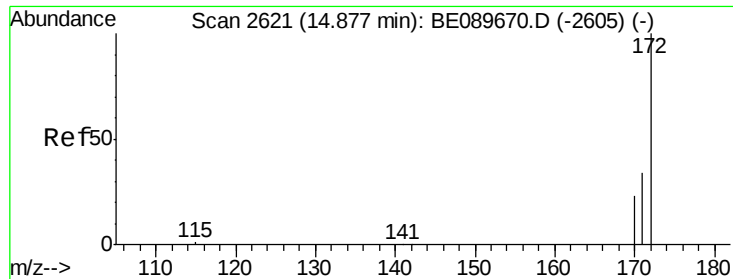


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

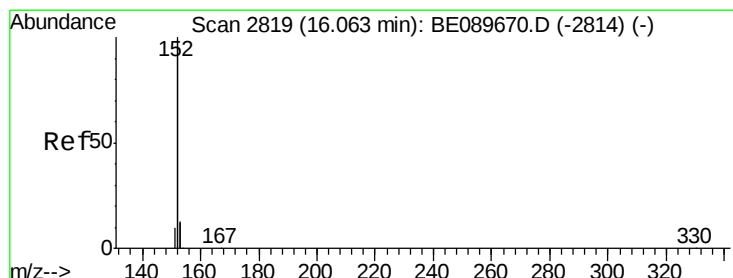
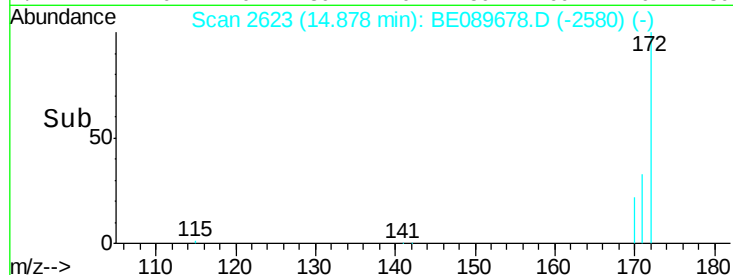
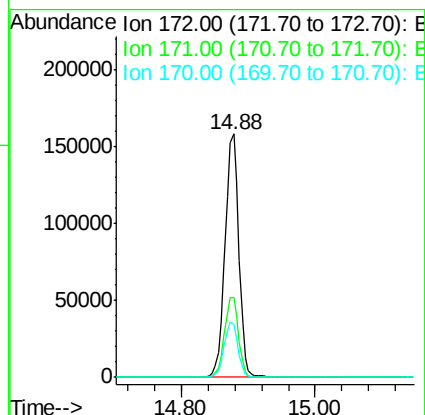
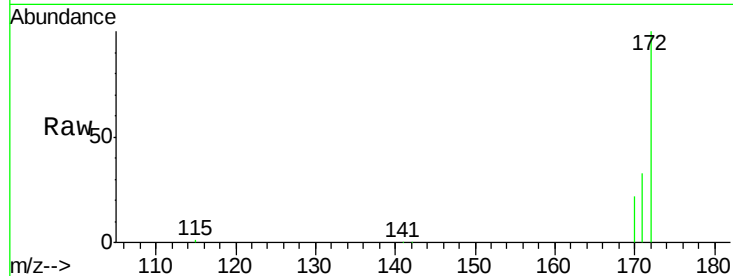




#9
 2-Fluorobiphenyl
 Concen: 9.39 ng
 RT: 14.88 min Scan# 2623
 Delta R.T. 0.00 min
 Lab File: BE089678.D
 Acq: 24 Feb 2015 19:35

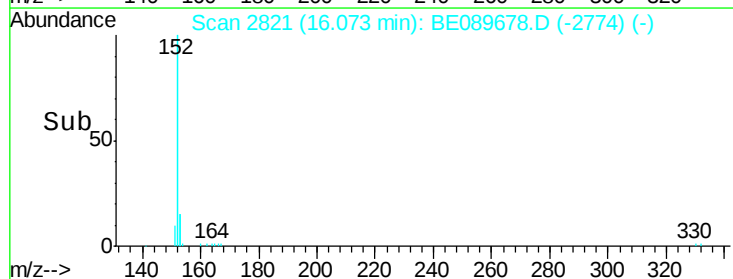
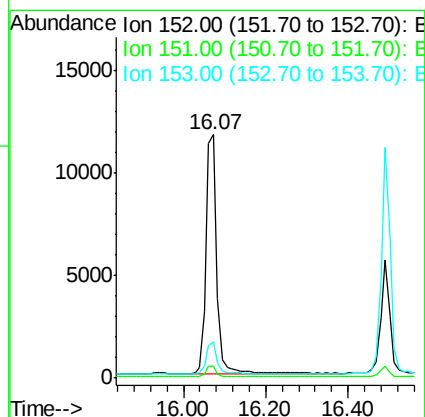
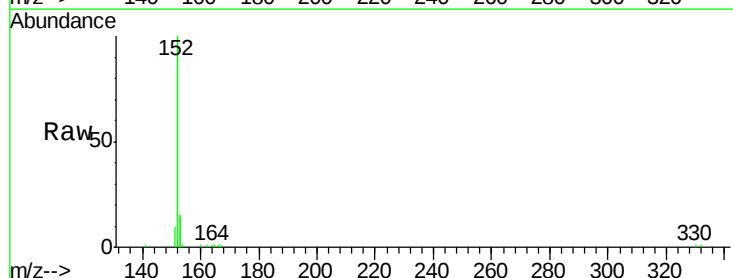
Instrument :
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 MDL-04-S

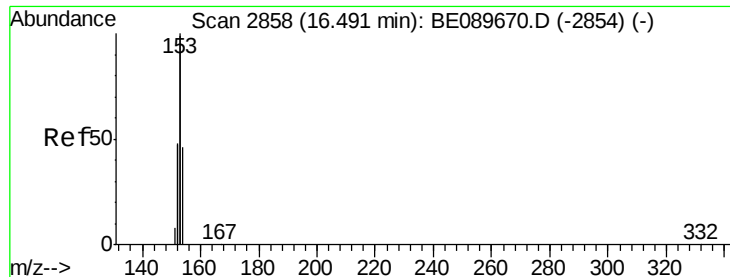
Tgt Ion:172 Resp: 227682
 Ion Ratio Lower Upper
 172 100
 171 32.9 27.3 40.9
 170 21.9 18.5 27.7



#10
 Acenaphthylene
 Concen: 0.14 ng
 RT: 16.07 min Scan# 2821
 Delta R.T. 0.01 min
 Lab File: BE089678.D
 Acq: 24 Feb 2015 19:35

Tgt Ion:152 Resp: 21299
 Ion Ratio Lower Upper
 152 100
 151 4.8 3.8 5.6
 153 12.9 10.4 15.6





#11

Acenaphthene

Concen: 0.15 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

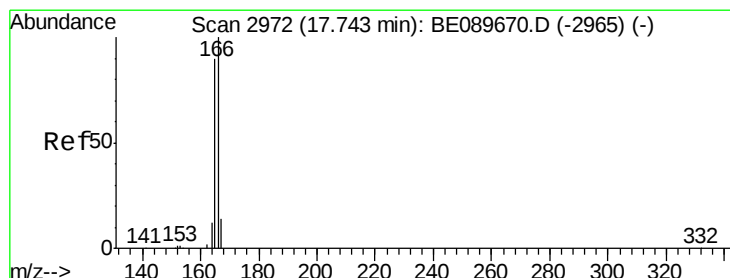
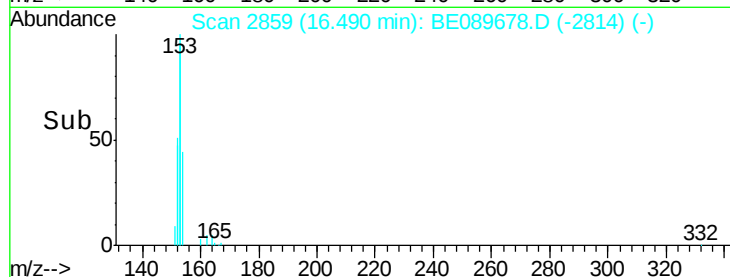
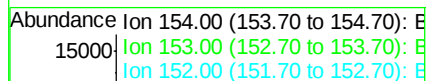
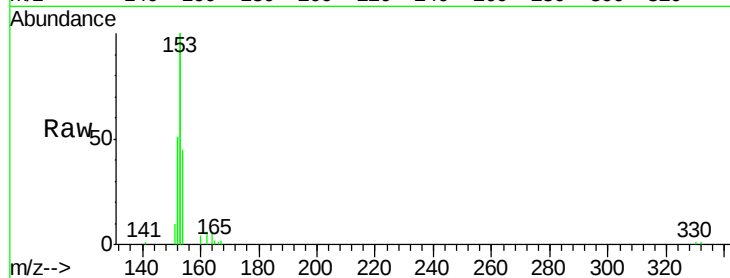
Tgt Ion:154 Resp: 3840

Ion Ratio Lower Upper

154 100

153 433.4 345.8 518.8

152 219.9 168.6 252.8



#12

Fluorene

Concen: 0.16 ng

RT: 17.74 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

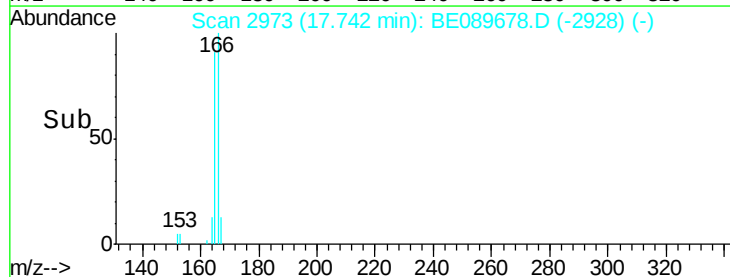
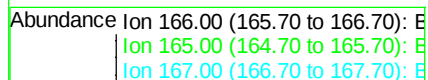
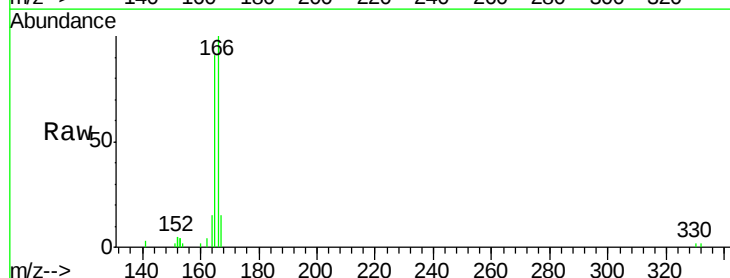
Tgt Ion:166 Resp: 4294

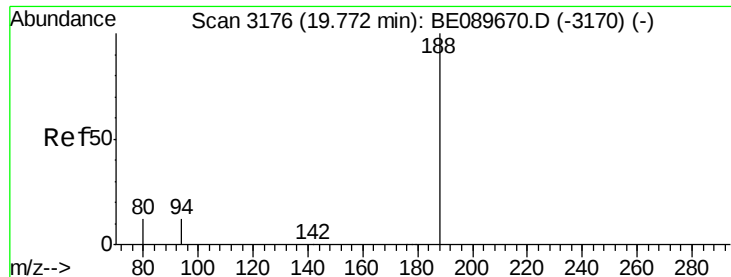
Ion Ratio Lower Upper

166 100

165 91.4 73.6 110.4

167 14.1 10.6 16.0





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. 0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

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BNA_E

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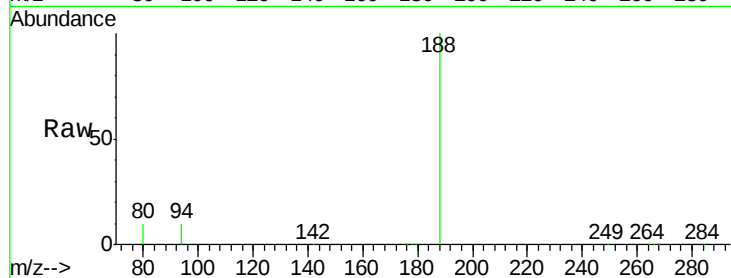
Tgt Ion:188 Resp: 200048

Ion Ratio Lower Upper

188 100

94 10.5 9.4 14.2

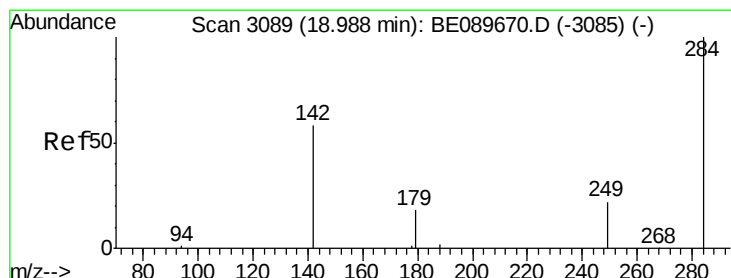
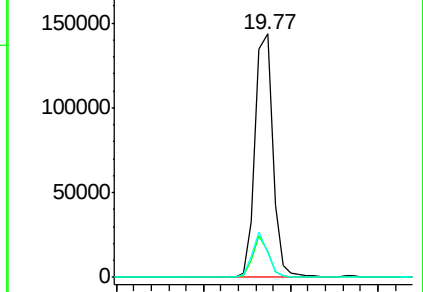
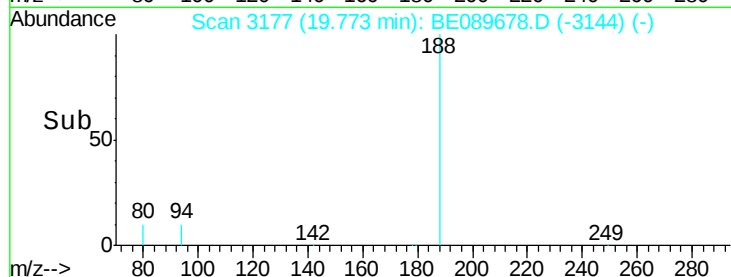
80 10.4 9.5 14.3



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: 0.16 ng

RT: 18.99 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

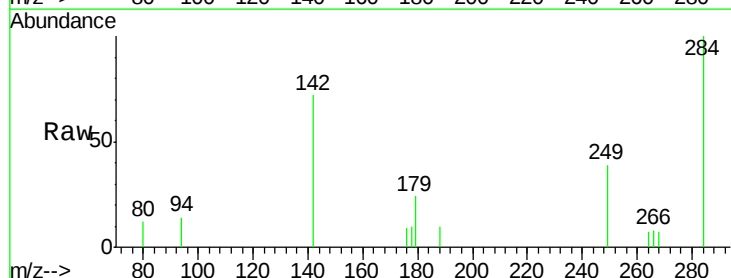
Tgt Ion:284 Resp: 838

Ion Ratio Lower Upper

284 100

142 70.0 55.4 83.2

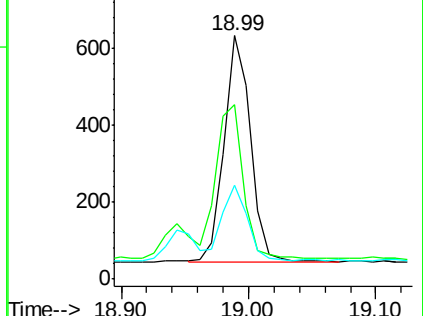
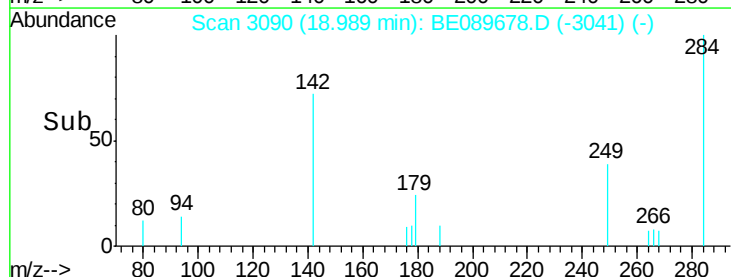
249 32.6 27.2 40.8

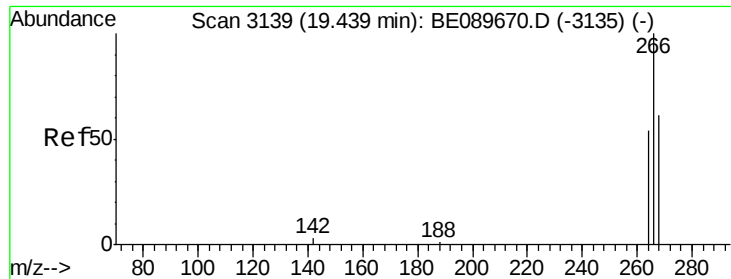


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

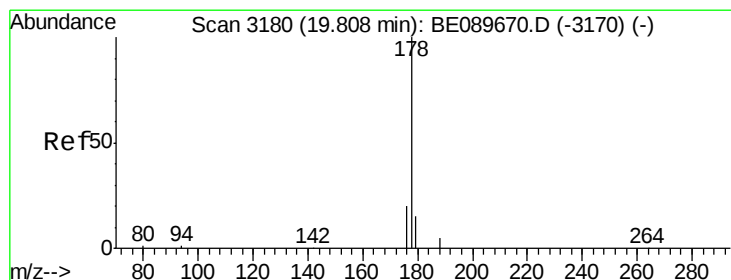
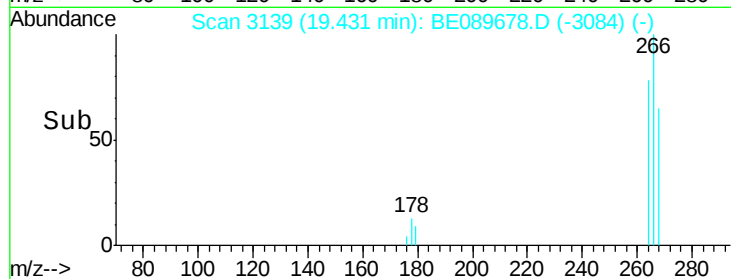
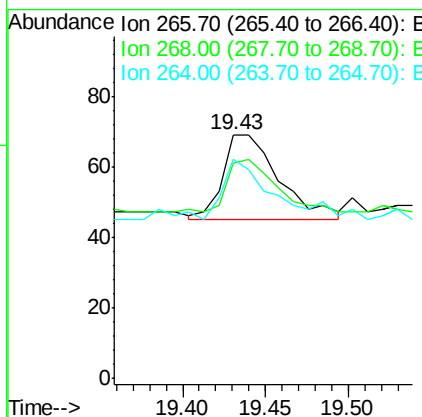
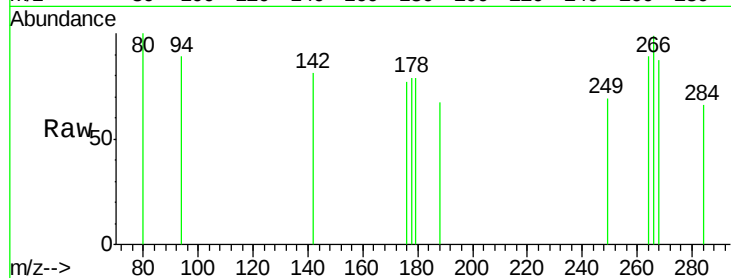




#15
 Pentachlorophenol
 Concen: 0.32 ng
 RT: 19.43 min Scan# 3139
 Delta R.T. -0.01 min
 Lab File: BE089678.D
 Acq: 24 Feb 2015 19:35

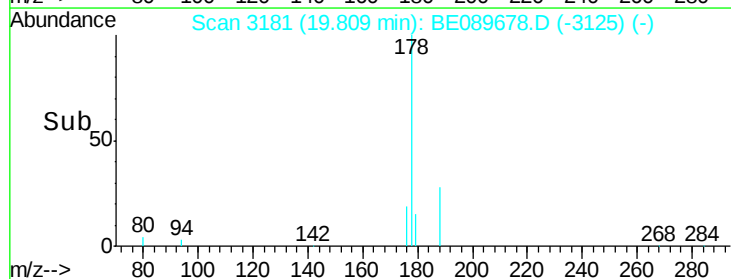
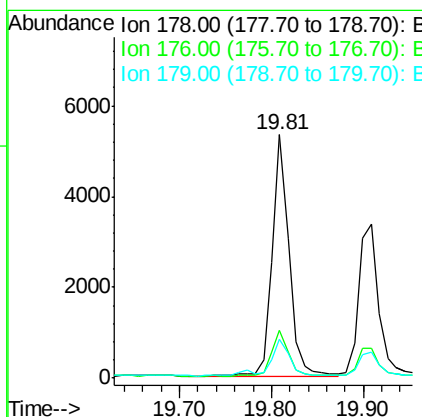
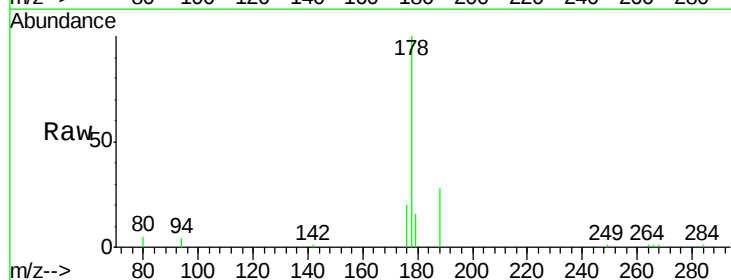
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

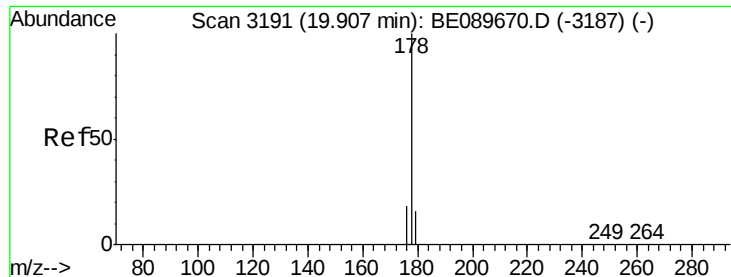
Tgt Ion: 266 Resp: 57
 Ion Ratio Lower Upper
 266 100
 268 88.4 56.3 84.5#
 264 89.9 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.16 ng
 RT: 19.81 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: BE089678.D
 Acq: 24 Feb 2015 19:35

Tgt Ion: 178 Resp: 6798
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.3 22.9
 179 17.3 12.5 18.7





#17

Anthracene

Concen: 0.14 ng

RT: 19.91 min Scan# 3192

Delta R.T. 0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

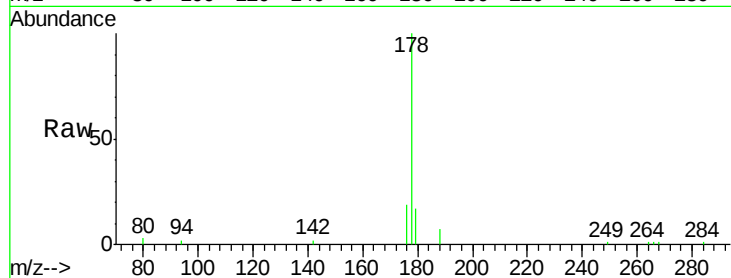
Tgt Ion:178 Resp: 5142

Ion Ratio Lower Upper

178 100

176 18.6 14.8 22.2

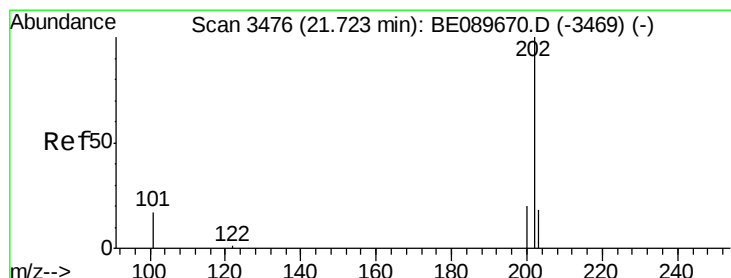
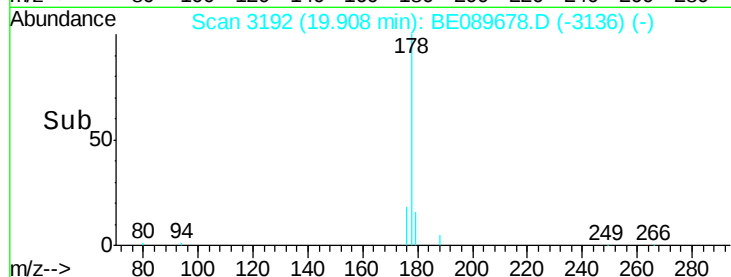
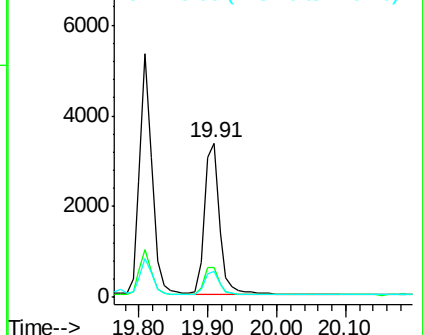
179 16.0 12.2 18.2



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: 0.14 ng

RT: 21.72 min Scan# 3475

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

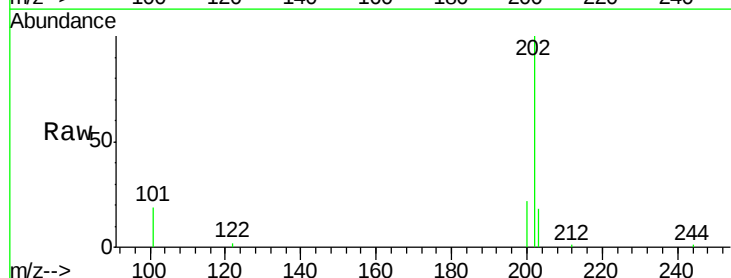
Tgt Ion:202 Resp: 5114

Ion Ratio Lower Upper

202 100

101 16.8 14.9 22.3

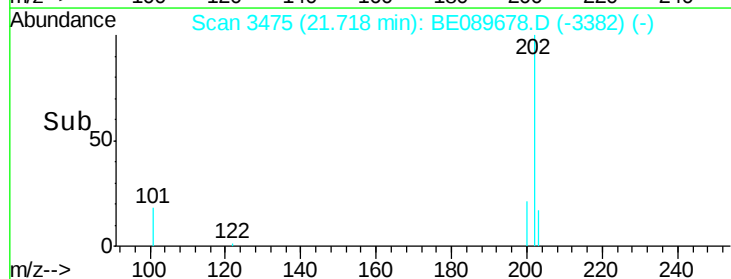
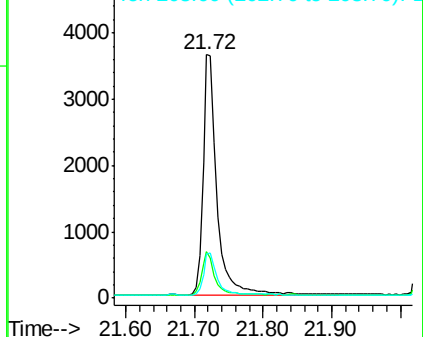
203 16.9 13.8 20.6

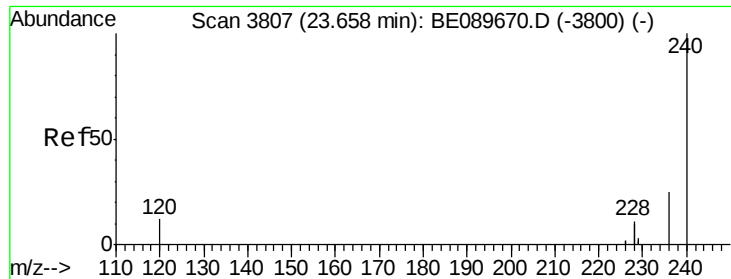


Abundance Ion 202.00 (201.70 to 202.70): E

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# 3807

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

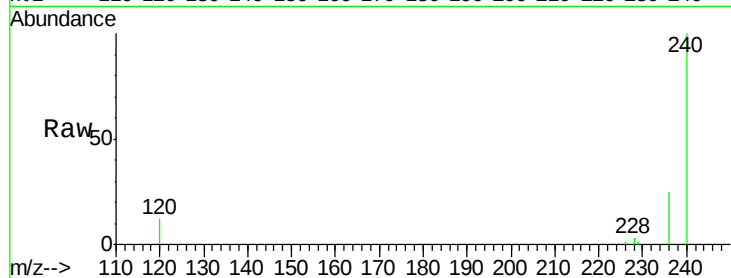
Tgt Ion:240 Resp: 151017

Ion Ratio Lower Upper

240 100

120 11.7 9.4 14.0

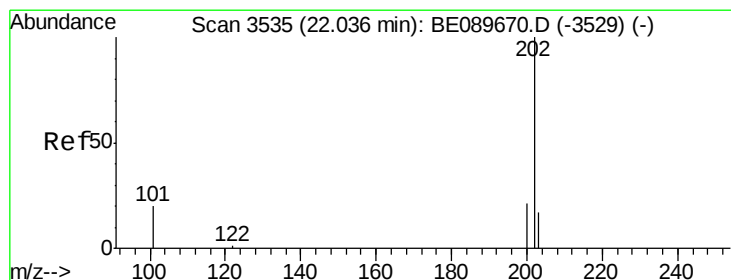
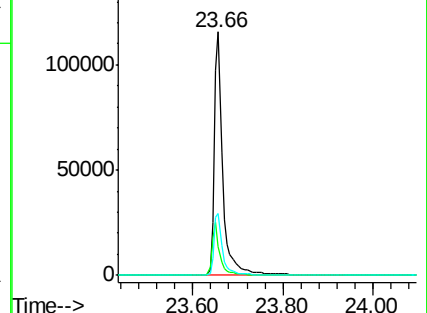
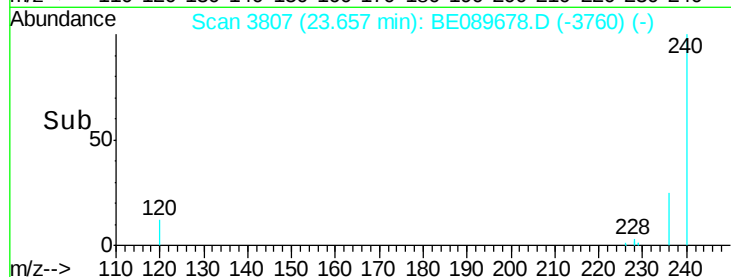
236 25.3 19.9 29.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.15 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

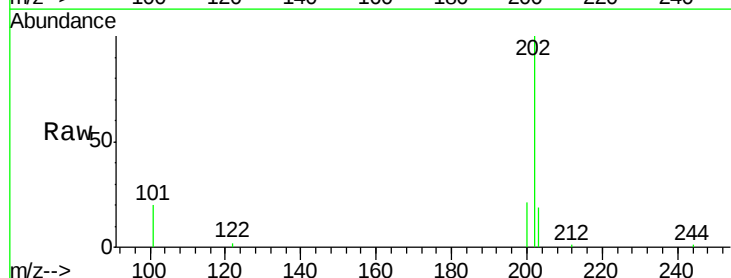
Tgt Ion:202 Resp: 5530

Ion Ratio Lower Upper

202 100

200 20.4 16.4 24.6

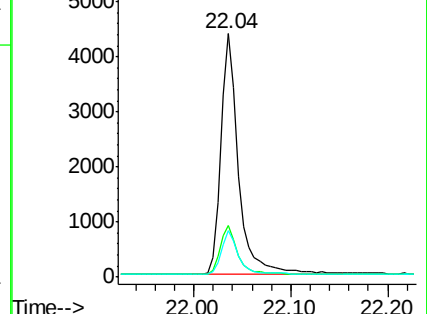
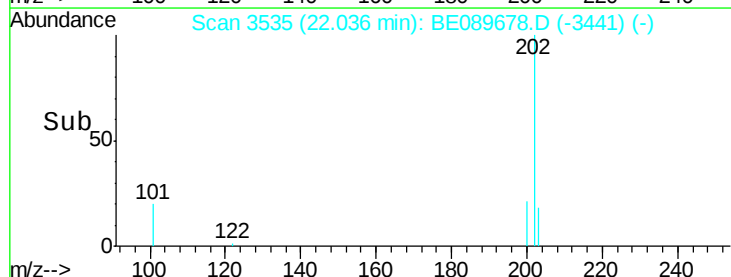
203 17.8 13.9 20.9

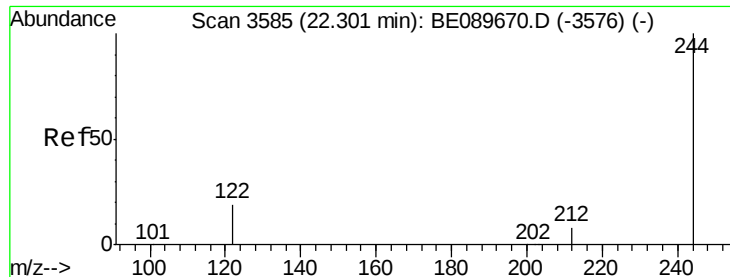


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.98 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

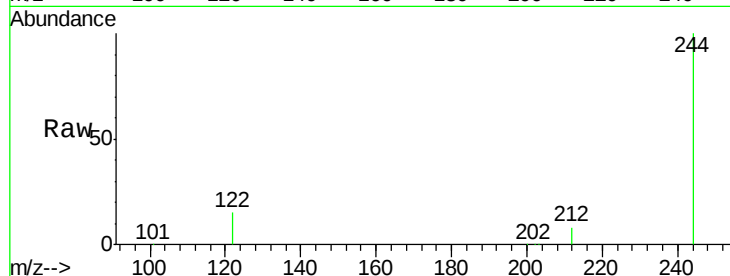
Tgt Ion:244 Resp: 212289

Ion Ratio Lower Upper

244 100

212 8.1 7.0 10.6

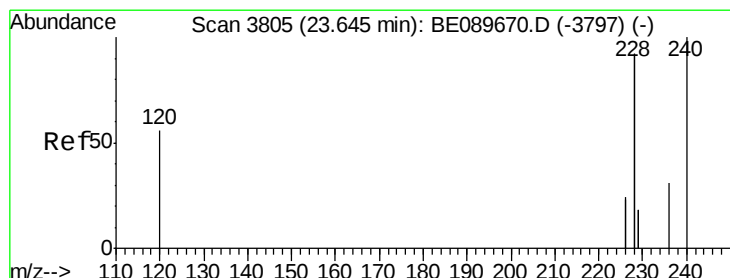
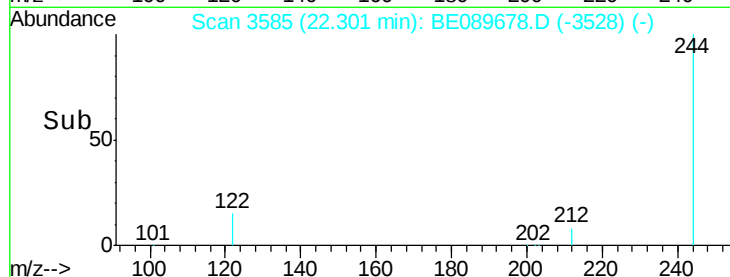
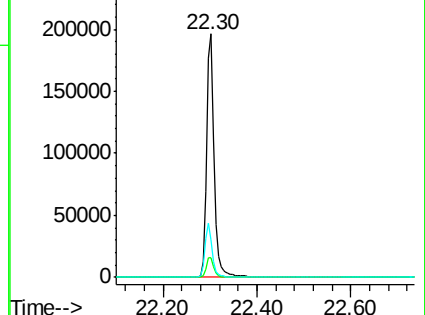
122 15.5 15.4 23.0



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: 0.18 ng

RT: 23.64 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

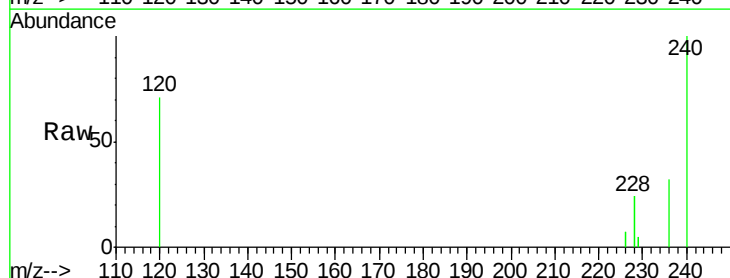
Tgt Ion:228 Resp: 17769

Ion Ratio Lower Upper

228 100

226 27.3 20.6 31.0

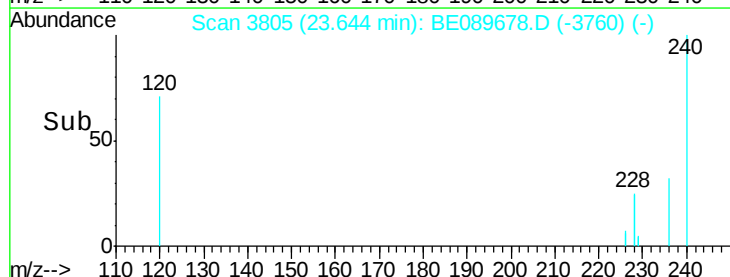
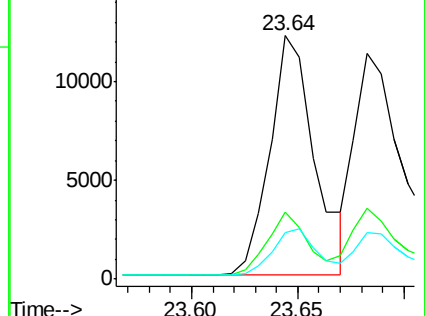
229 19.2 15.8 23.6

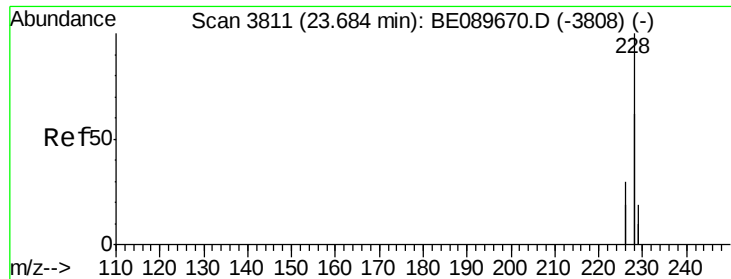


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.17 ng

RT: 23.68 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

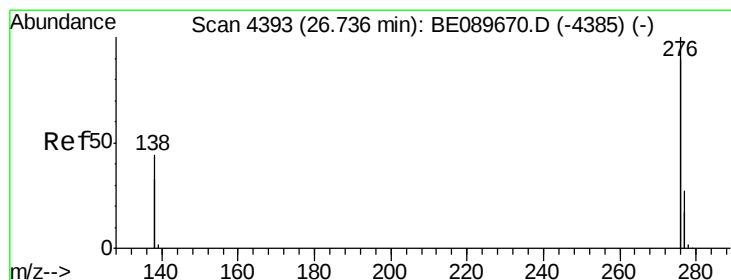
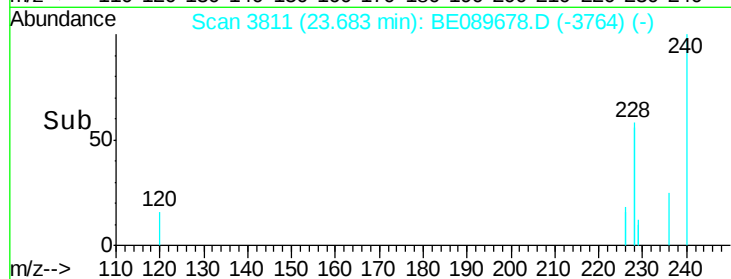
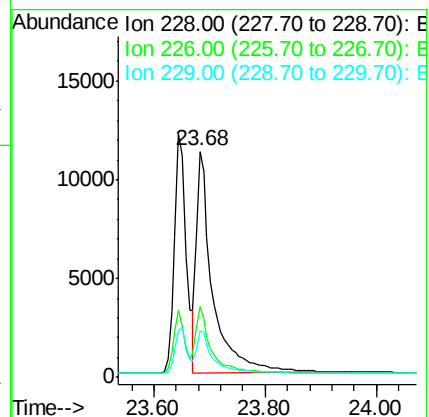
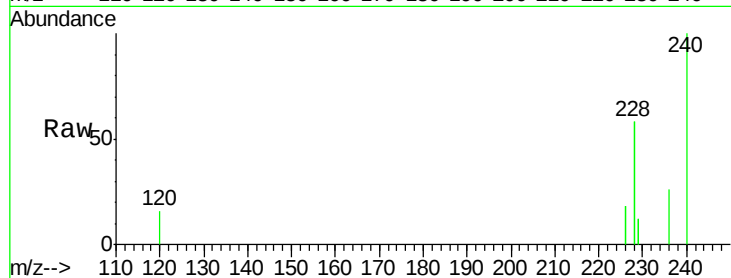
Tgt Ion:228 Resp: 23022

Ion Ratio Lower Upper

228 100

226 31.2 23.6 35.4

229 20.5 15.3 22.9



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.31 ng

RT: 26.73 min Scan# 4393

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

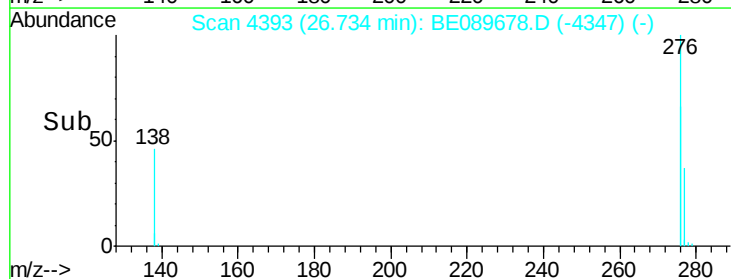
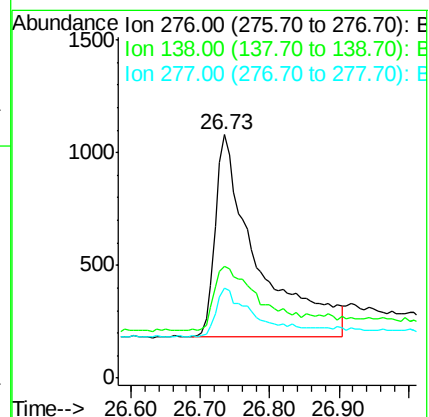
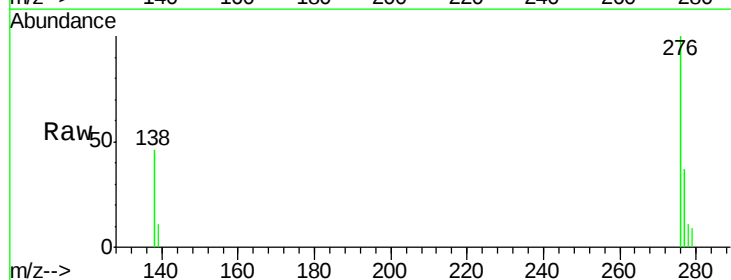
Tgt Ion:276 Resp: 3767

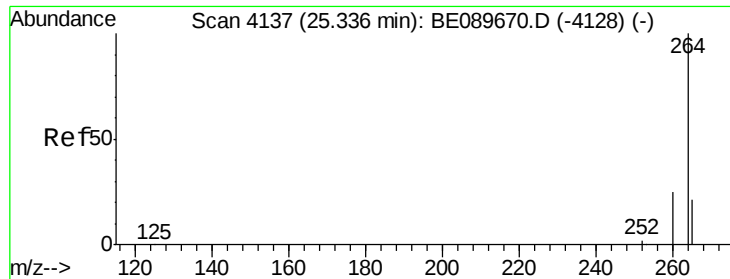
Ion Ratio Lower Upper

276 100

138 34.7 0.0 0.0#

277 22.1 5.2 7.8#

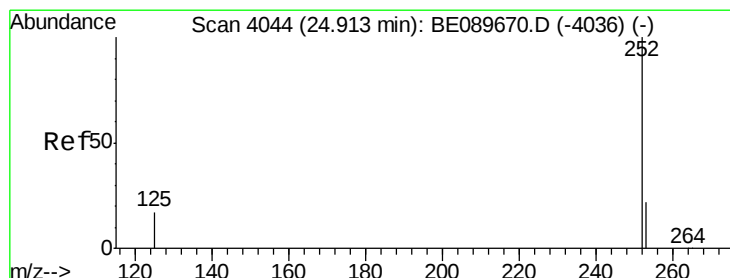
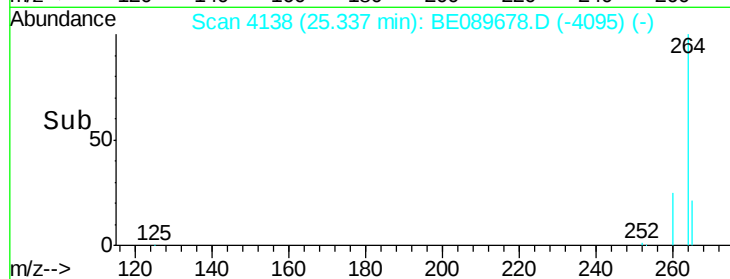
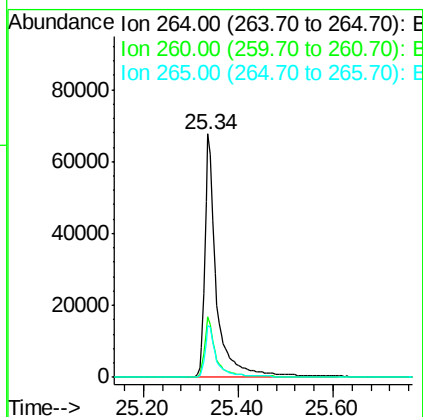
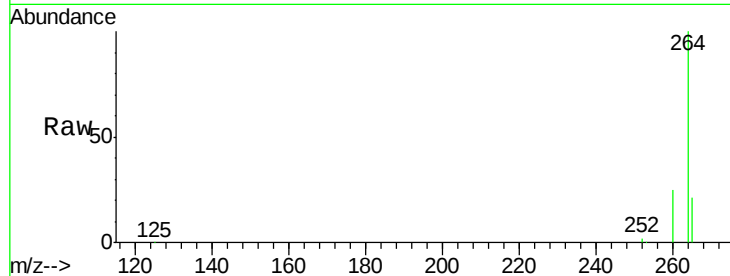




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. 0.00 min
 Lab File: BE089678.D
 Acq: 24 Feb 2015 19:35

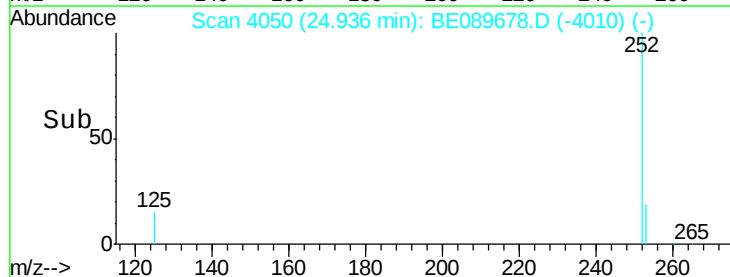
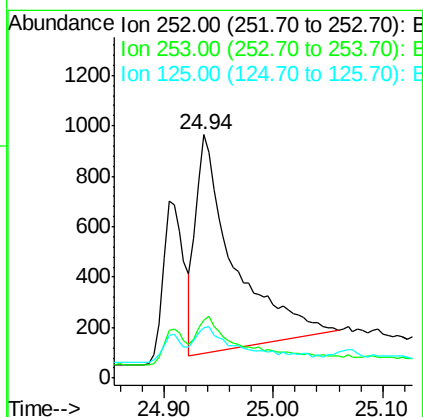
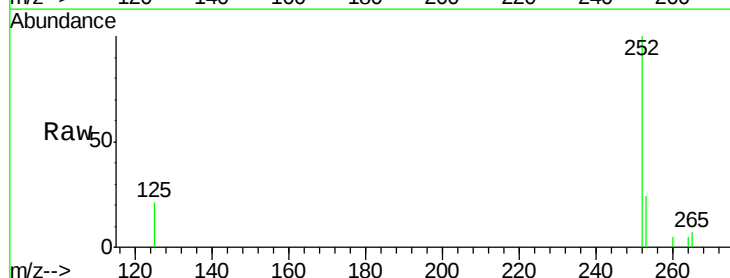
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

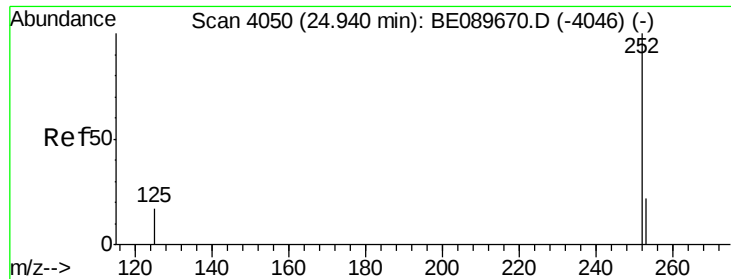
Tgt Ion: 264 Resp: 115041
 Ion Ratio Lower Upper
 264 100
 260 24.9 20.2 30.4
 265 21.2 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 0.46 ng
 RT: 24.94 min Scan# 4050
 Delta R.T. 0.02 min
 Lab File: BE089678.D
 Acq: 24 Feb 2015 19:35

Tgt Ion: 252 Resp: 2104
 Ion Ratio Lower Upper
 252 100
 253 24.0 18.6 27.8
 125 20.9 15.0 22.6

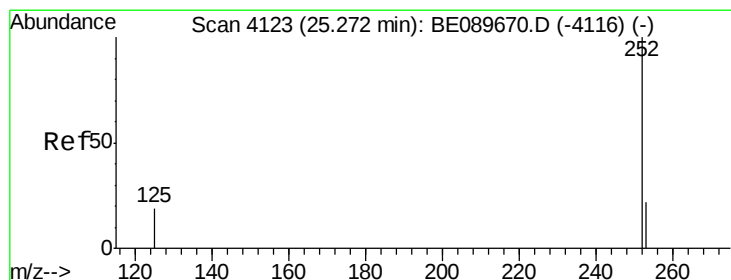
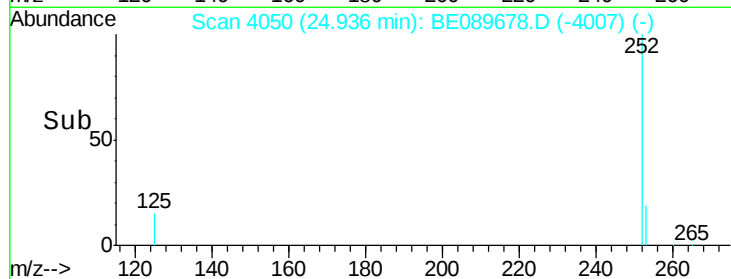
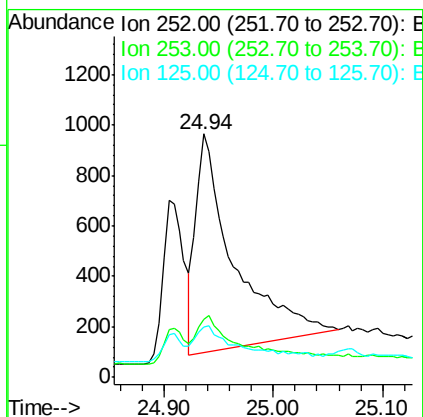
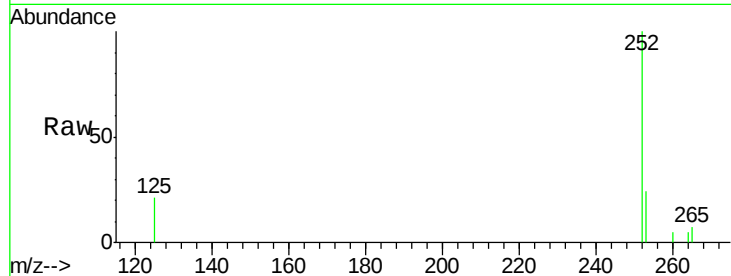




#27
Benzo(k)fluoranthene
Concen: 0.21 ng
RT: 24.94 min Scan# 4050
Delta R.T. -0.00 min
Lab File: BE089678.D
Acq: 24 Feb 2015 19:35

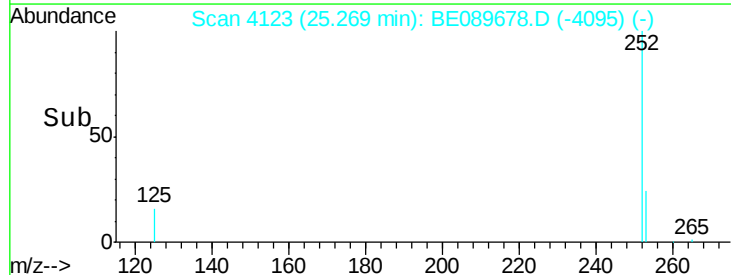
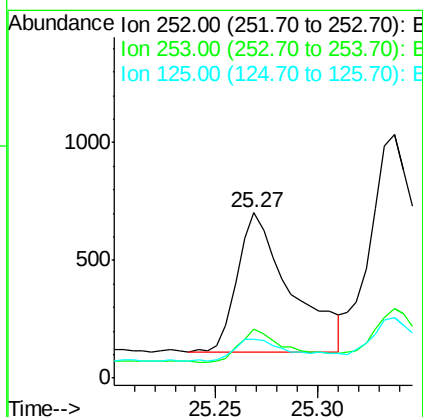
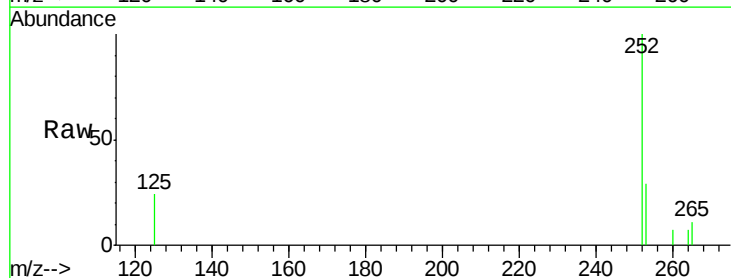
Instrument :
BNA_E
ClientSampleId :
MDL-04-S

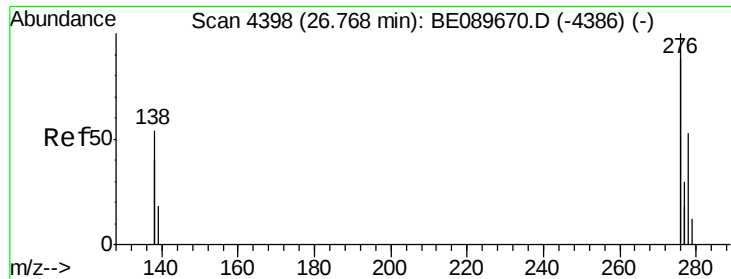
Tgt Ion:252 Resp: 2104
Ion Ratio Lower Upper
252 100
253 24.0 18.0 27.0
125 20.9 14.3 21.5



#28
Benzo(a)pyrene
Concen: 0.16 ng
RT: 25.27 min Scan# 4123
Delta R.T. -0.00 min
Lab File: BE089678.D
Acq: 24 Feb 2015 19:35

Tgt Ion:252 Resp: 1072
Ion Ratio Lower Upper
252 100
253 29.5 18.8 28.2#
125 23.6 16.6 24.8





#29

Dibenzo(a,h)anthracene

Concen: 0.36 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.00 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

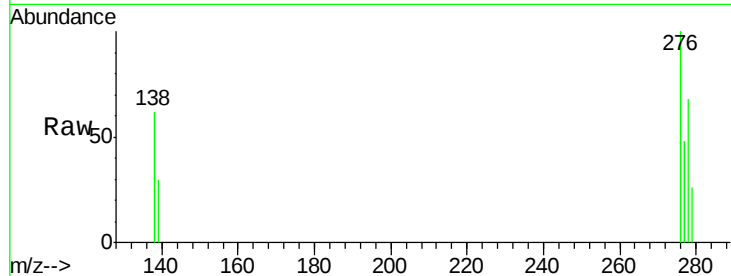
Tgt Ion:278 Resp: 646

Ion Ratio Lower Upper

278 100

139 44.0 30.4 45.6

279 37.8 22.0 33.0#

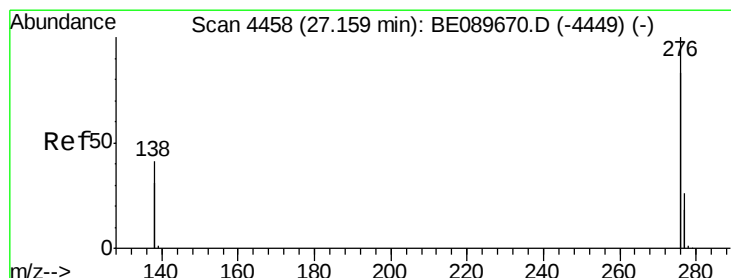
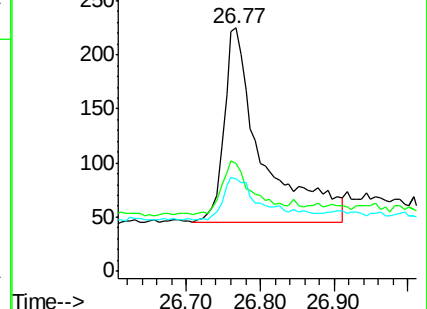
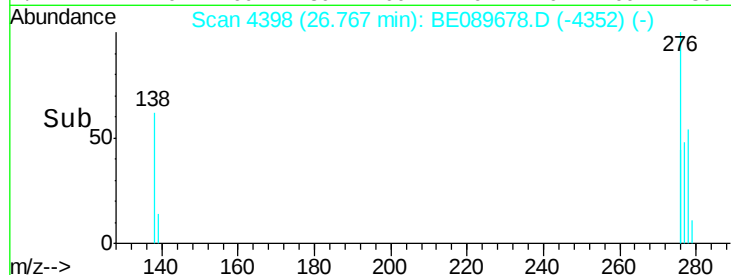


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.39 ng

RT: 27.15 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089678.D

Acq: 24 Feb 2015 19:35

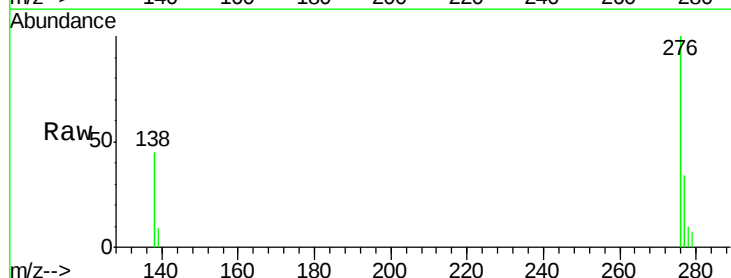
Tgt Ion:276 Resp: 5558

Ion Ratio Lower Upper

276 100

277 33.8 21.0 31.6#

138 44.9 33.0 49.4



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

Time-->

