

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089621.D
 Acq On : 18 Feb 2015 16:56
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Quant Time: Feb 19 04:48:32 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

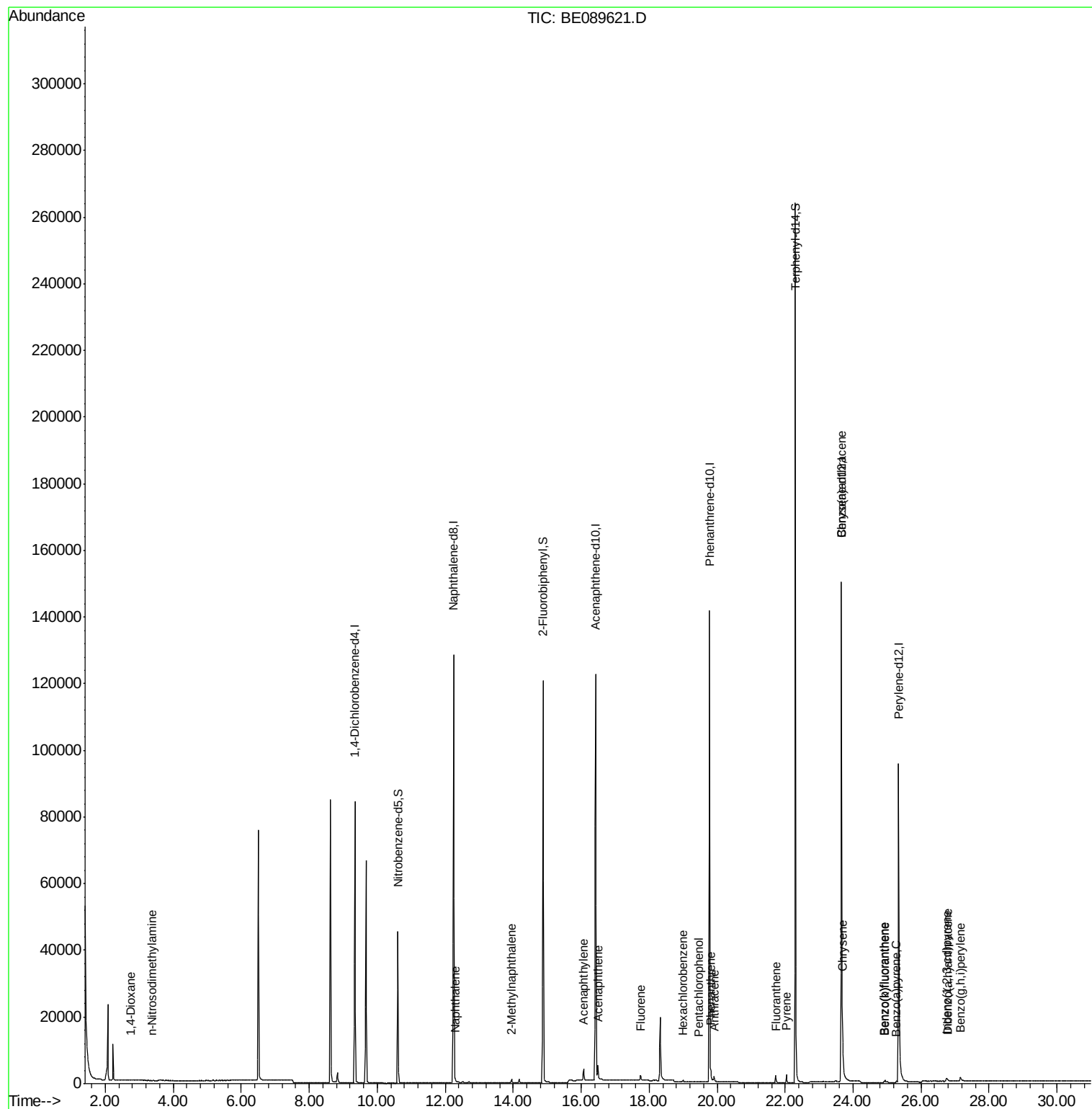
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	37507	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	149976	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	72888	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	143008	5.00	ng	0.00
19) Chrysene-d12	23.66	240	131712	5.00	ng	0.00
25) Perylene-d12	25.34	264	107711	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	31962	4.90	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	112381	5.76	ng	0.00
21) Terphenyl-d14	22.30	244	224148	11.84	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.75	88	143	0.03	ng	# 83
3) n-Nitrosodimethylamine	3.37	42	3	0.00	ng	# 1
6) Naphthalene	12.29	128	1307	0.04	ng	# 88
7) 2-Methylnaphthalene	13.95	142	751	0.04	ng	94
10) Acenaphthylene	16.07	152	4666	0.04	ng	99
11) Acenaphthene	16.50	154	938	0.05	ng	93
12) Fluorene	17.74	166	1139	0.05	ng	98
14) Hexachlorobenzene	19.00	284	390	0.06	ng	92
15) Pentachlorophenol	19.44	266	43	0.02	ng	# 73
16) Phenanthrene	19.82	178	2310	0.07	ng	99
17) Anthracene	19.91	178	1547	0.05	ng	98
18) Fluoranthene	21.72	202	1783	0.05	ng	99
20) Pyrene	22.04	202	1932	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	7245	0.06	ng	# 92
23) Chrysene	23.69	228	10913	0.08	ng	96
24) Indeno(1,2,3-cd)pyrene	26.74	276	2594	0.20	ng	# 88
26) Benzo(b)fluoranthene	24.91	252	581	0.29	ng	# 79
27) Benzo(k)fluoranthene	24.94	252	1119	0.04	ng	# 83
28) Benzo(a)pyrene	25.27	252	568	0.26	ng	# 74
29) Dibenzo(a,h)anthracene	26.77	278	385	0.25	ng	# 57
30) Benzo(g,h,i)perylene	27.17	276	2996	0.16	ng	# 70

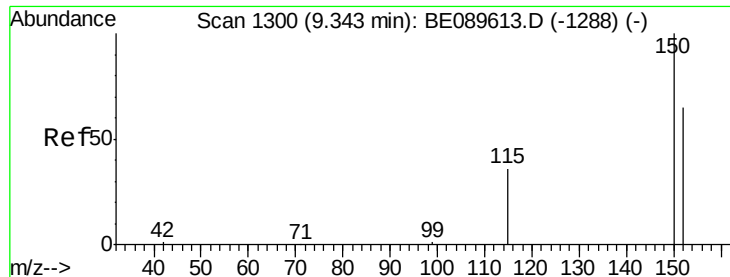
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

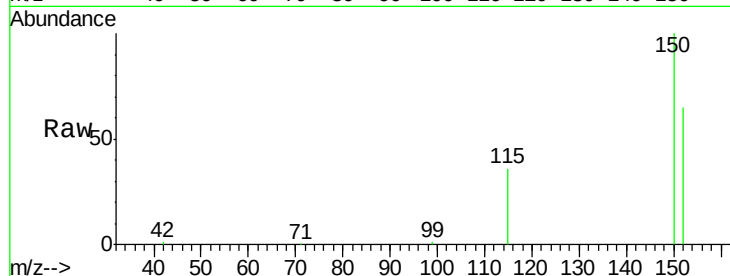
Tgt Ion: 152 Resp: 37507

Ion Ratio Lower Upper

152 100

150 154.4 122.4 183.6

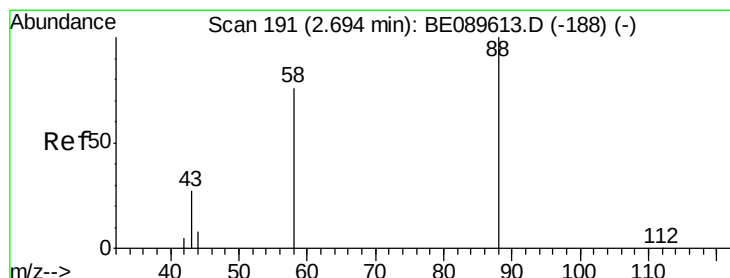
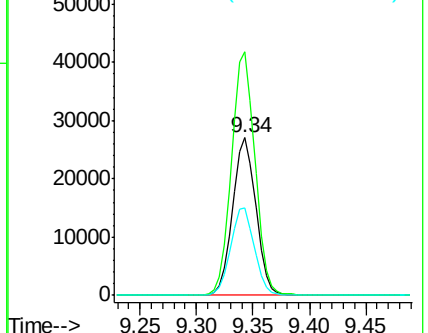
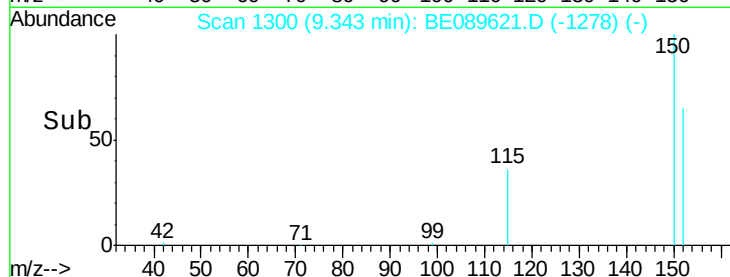
115 55.2 44.2 66.2



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: 0.03 ng

RT: 2.75 min Scan# 199

Delta R.T. 0.05 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

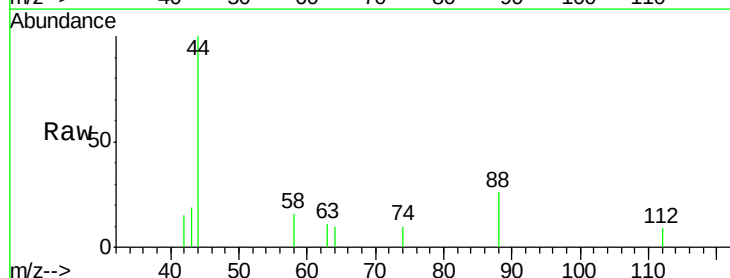
Tgt Ion: 88 Resp: 143

Ion Ratio Lower Upper

88 100

58 71.3 54.6 81.8

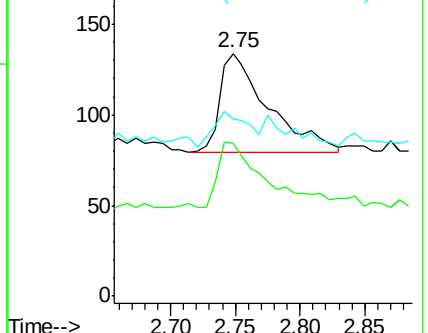
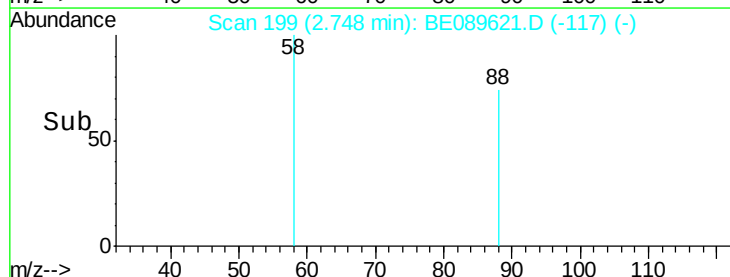
43 0.0 20.6 30.8#

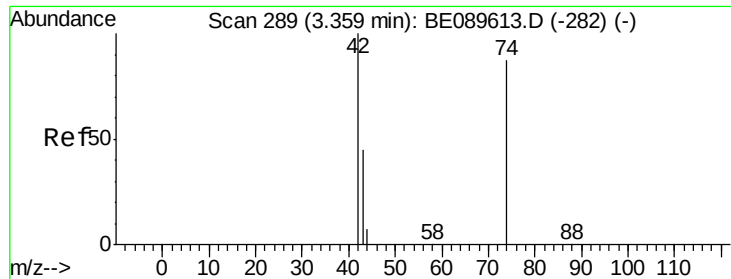


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



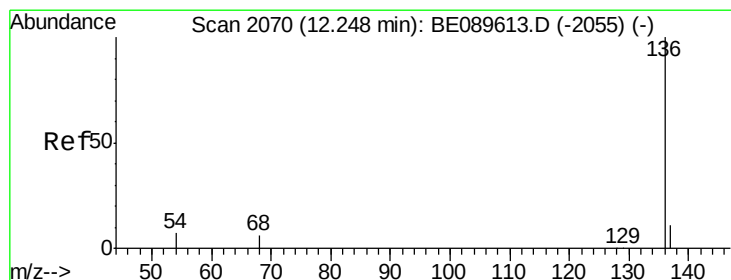
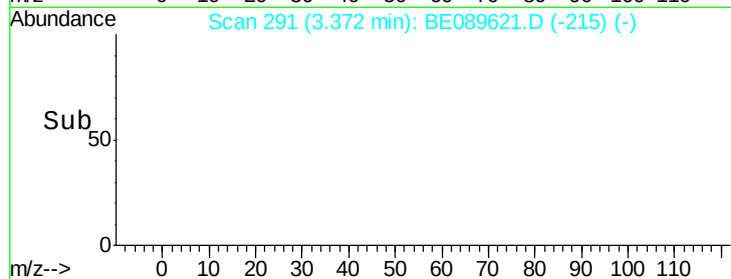
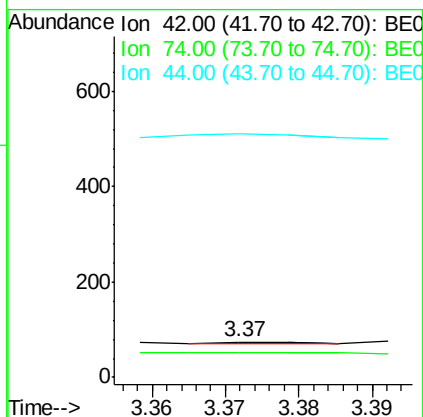
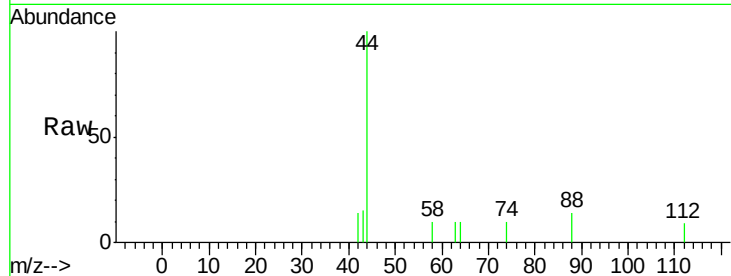


#3

n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.37 min Scan# 291
 Delta R.T. 0.01 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

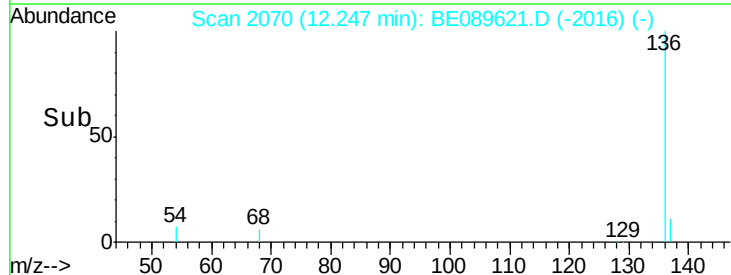
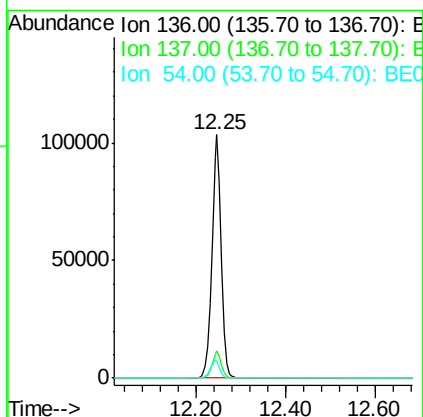
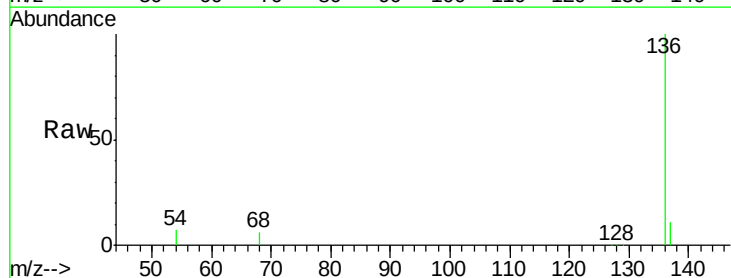
Tgt Ion: 42 Resp: 3
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 366.7 4.5 6.7#

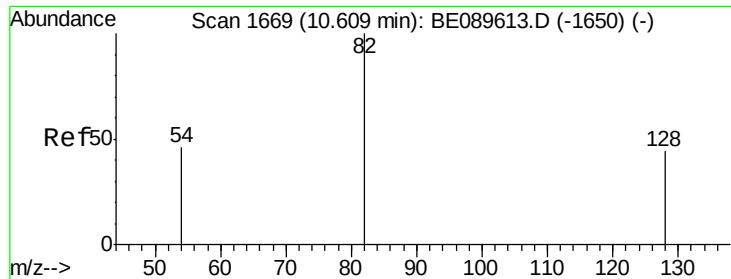


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. -0.00 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

Tgt Ion: 136 Resp: 149976
 Ion Ratio Lower Upper
 136 100
 137 11.1 8.9 13.3
 54 6.8 5.3 7.9





#5

Nitrobenzene-d5

Concen: 4.90 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

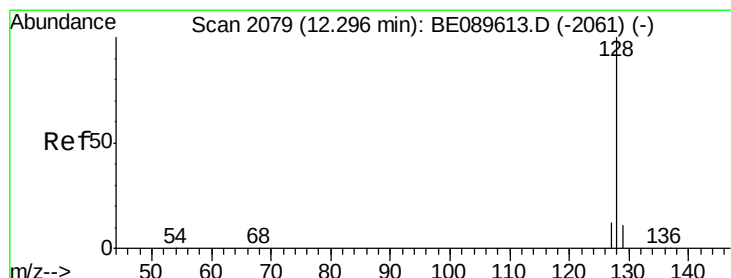
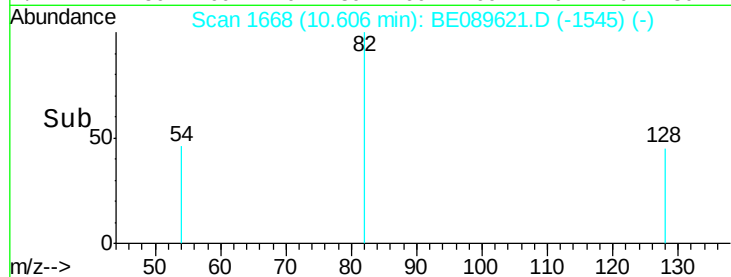
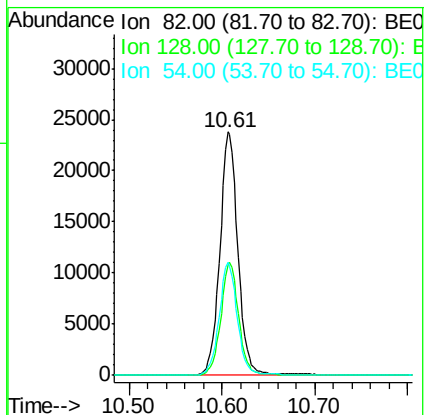
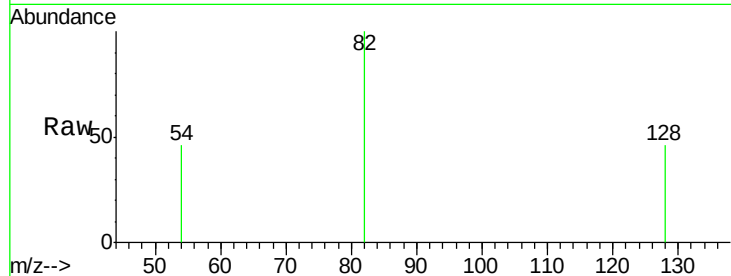
Tgt Ion: 82 Resp: 31962

Ion Ratio Lower Upper

82 100

128 45.5 35.5 53.3

54 46.4 37.5 56.3



#6

Naphthalene

Concen: 0.04 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

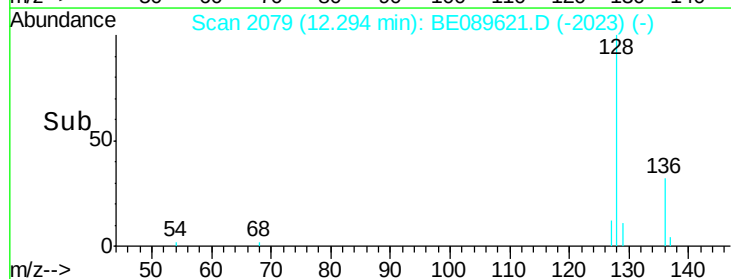
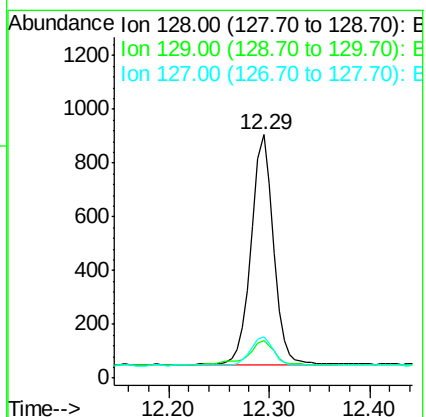
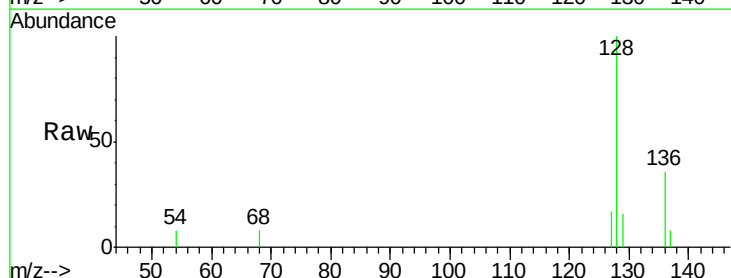
Tgt Ion: 128 Resp: 1307

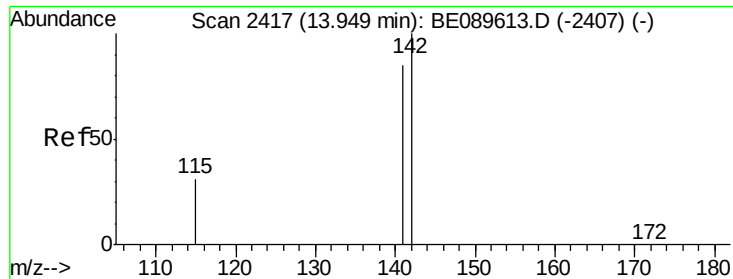
Ion Ratio Lower Upper

128 100

129 15.7 8.9 13.3#

127 17.0 9.8 14.8#





#7

2-Methylnaphthalene

Concen: 0.04 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

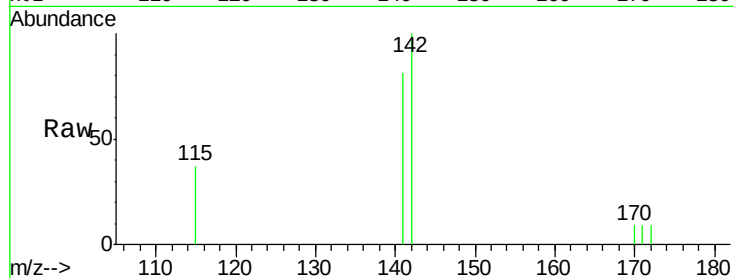
Tgt Ion:142 Resp: 751

Ion Ratio Lower Upper

142 100

141 81.1 68.3 102.5

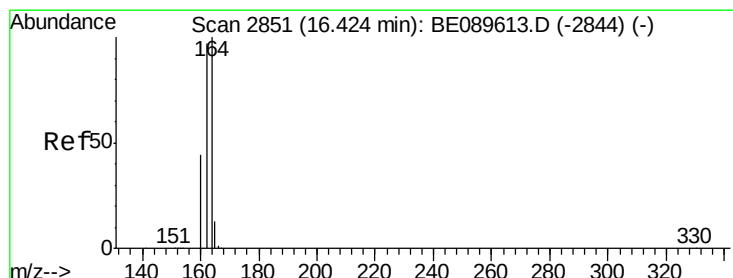
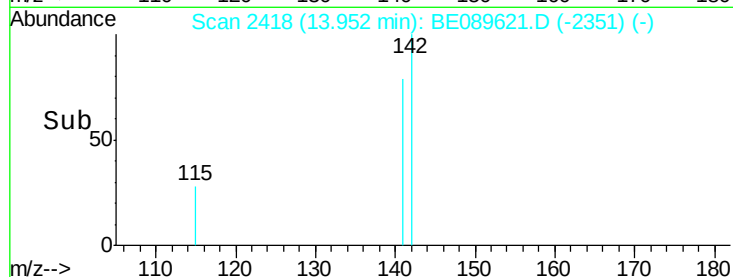
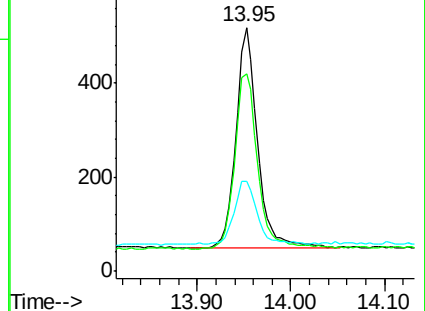
115 37.1 25.1 37.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

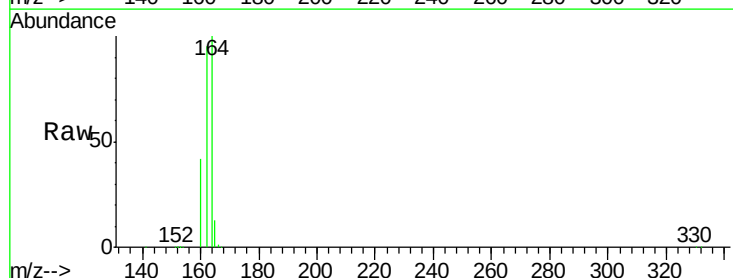
Tgt Ion:164 Resp: 72888

Ion Ratio Lower Upper

164 100

162 94.6 77.5 116.3

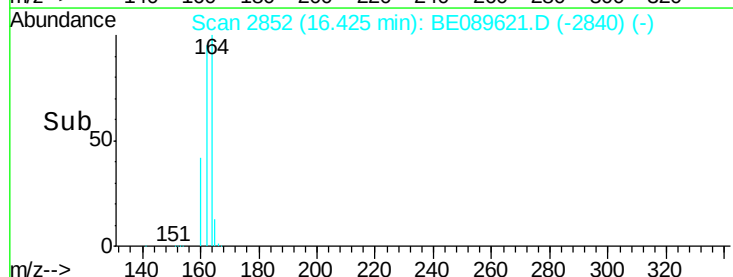
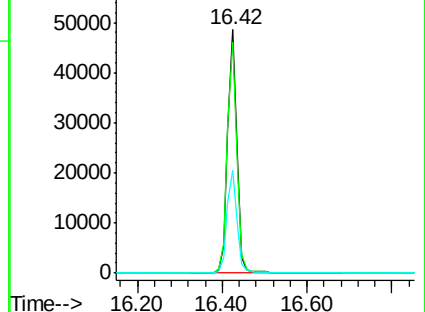
160 42.4 35.5 53.3

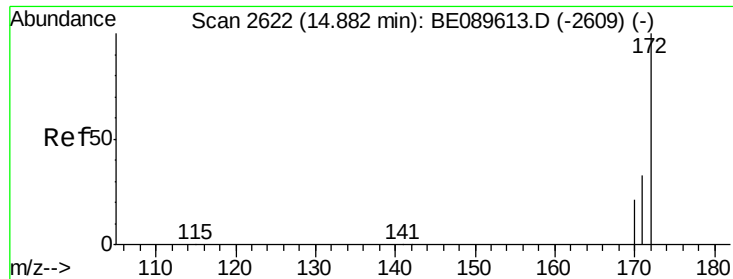


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 5.76 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

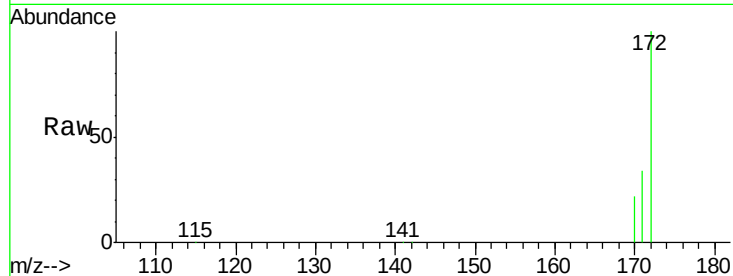
Tgt Ion:172 Resp: 112381

Ion Ratio Lower Upper

172 100

171 33.9 26.9 40.3

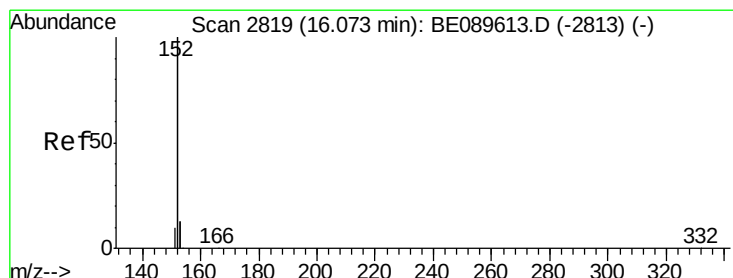
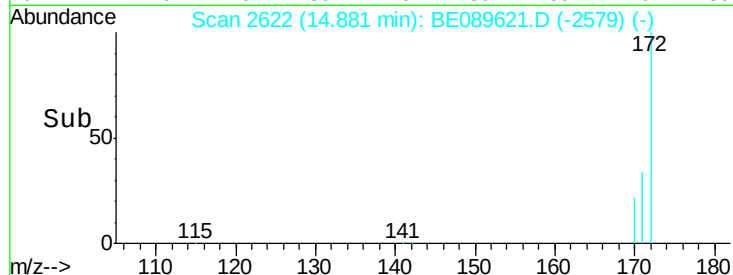
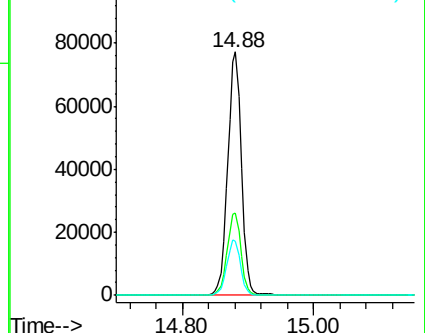
170 22.0 17.4 26.0



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: 0.04 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

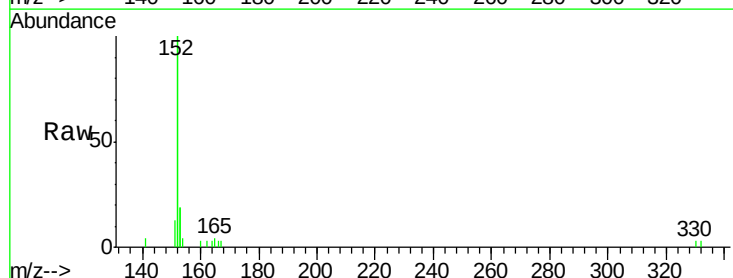
Tgt Ion:152 Resp: 4666

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

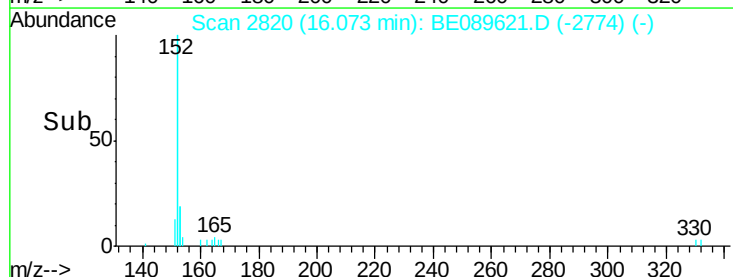
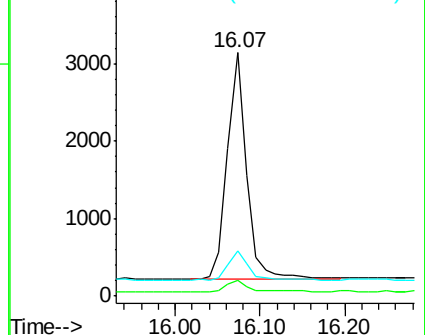
153 13.7 10.5 15.7

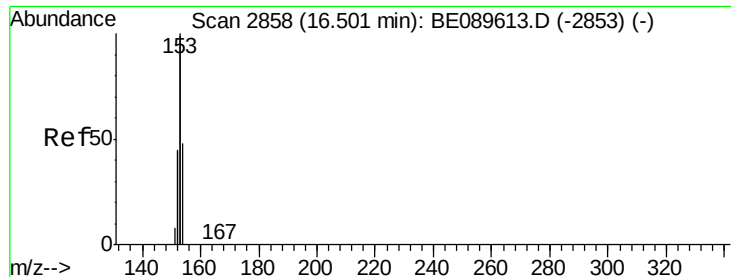


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.05 ng

RT: 16.50 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

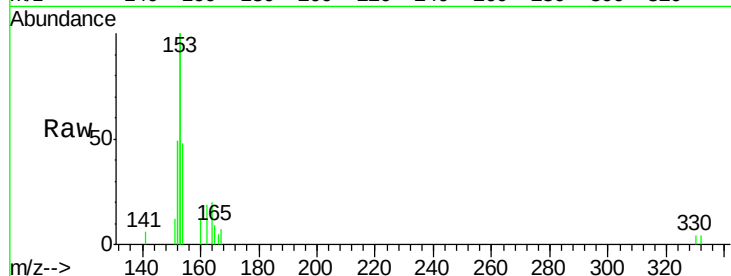
Tgt Ion:154 Resp: 938

Ion Ratio Lower Upper

154 100

153 442.1 348.9 523.3

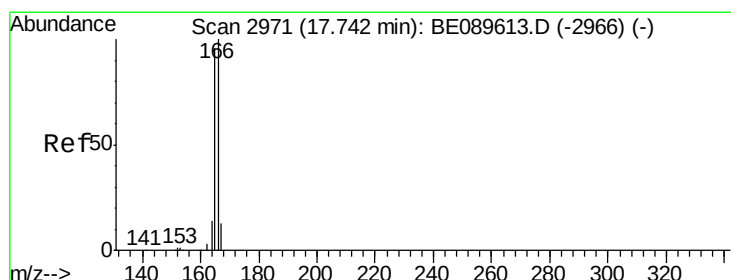
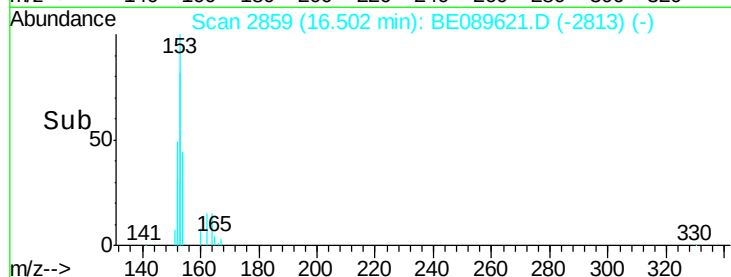
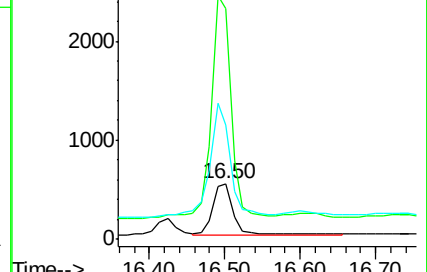
152 235.3 166.6 249.8



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: 0.05 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

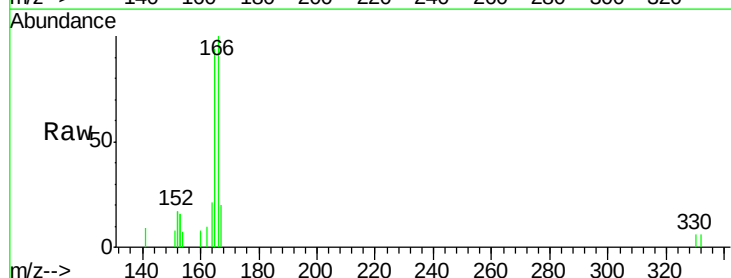
Tgt Ion:166 Resp: 1139

Ion Ratio Lower Upper

166 100

165 92.3 74.7 112.1

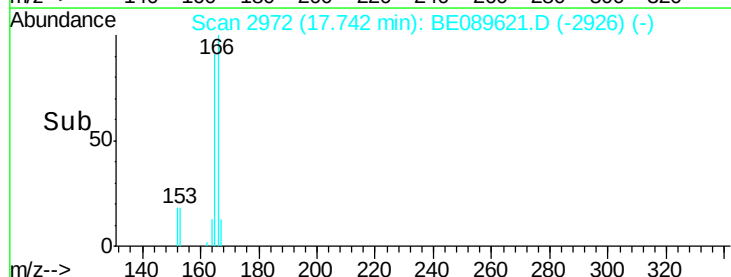
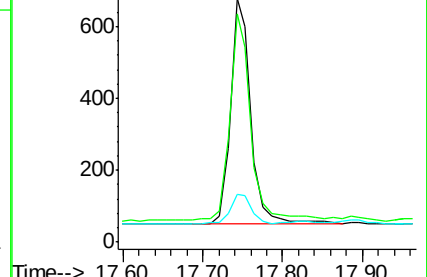
167 14.7 10.5 15.7

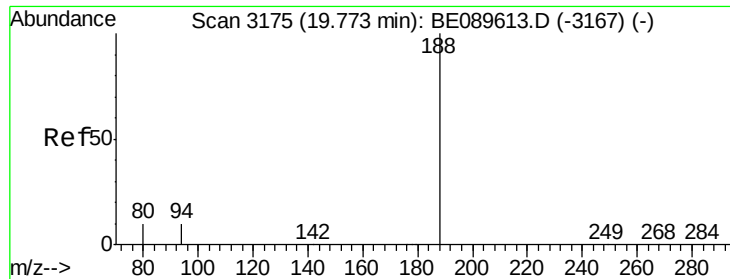


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

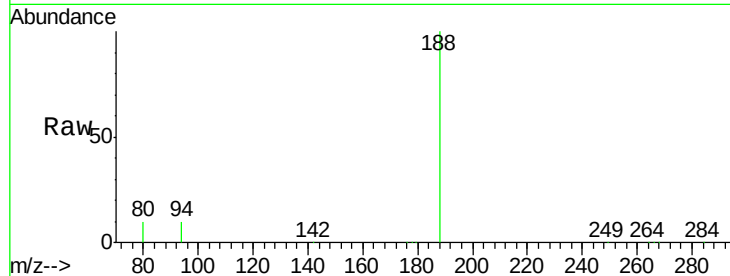




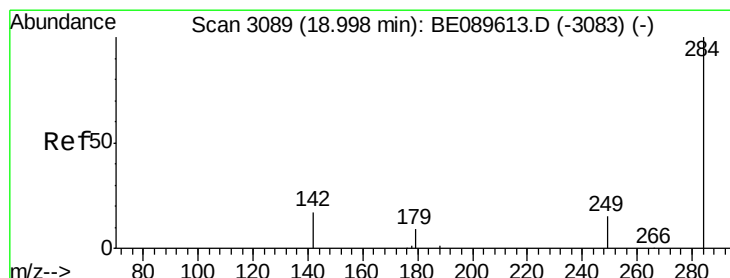
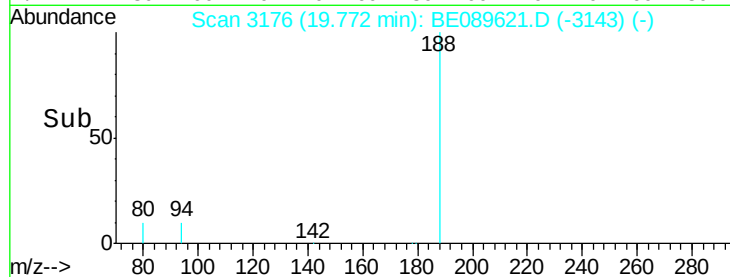
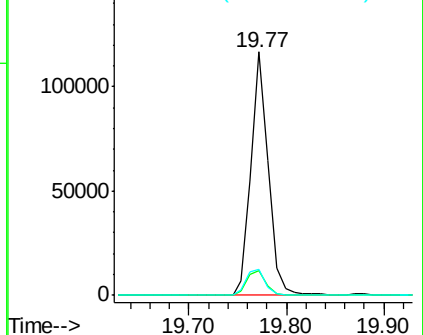
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089621.D
Acq: 18 Feb 2015 16:56

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion:188 Resp: 143008
Ion Ratio Lower Upper
188 100
94 10.4 8.2 12.4
80 10.4 8.1 12.1

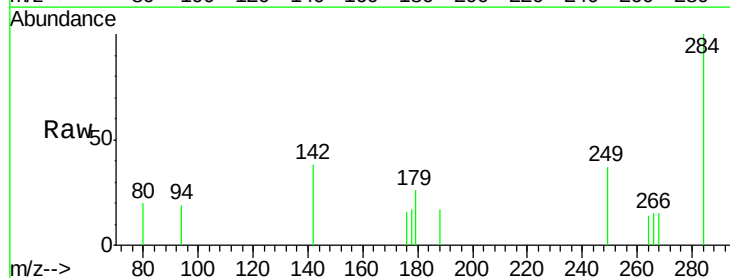


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

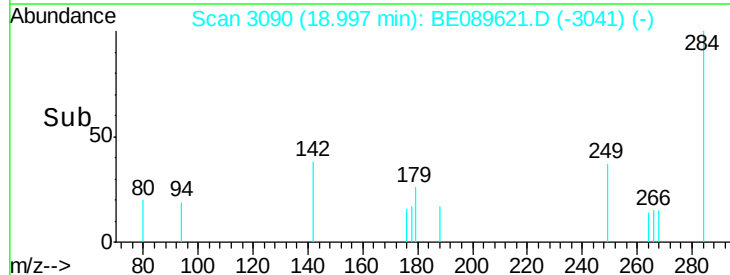
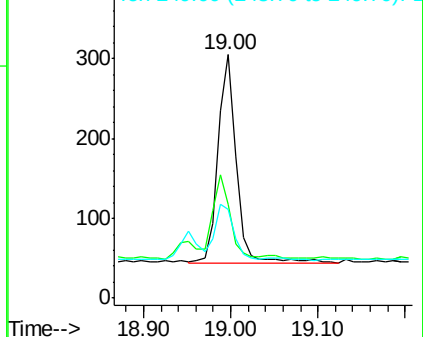


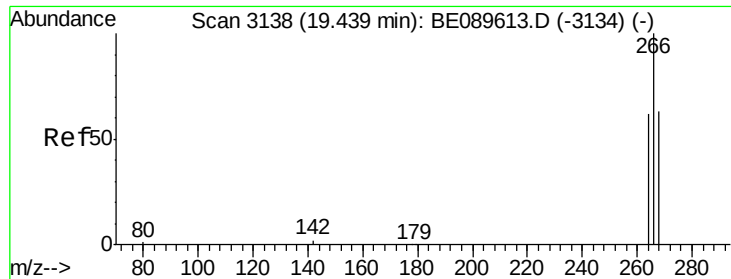
#14
Hexachlorobenzene
Concen: 0.06 ng
RT: 19.00 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BE089621.D
Acq: 18 Feb 2015 16:56

Tgt Ion:284 Resp: 390
Ion Ratio Lower Upper
284 100
142 47.2 32.3 48.5
249 26.2 22.3 33.5



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

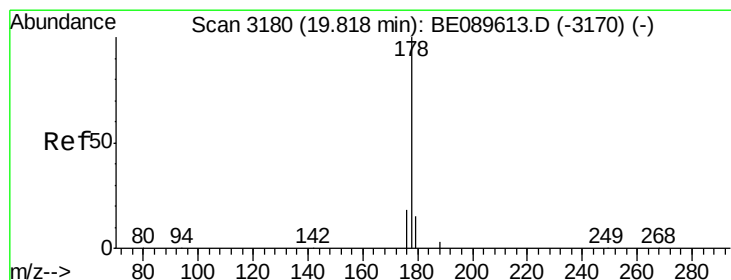
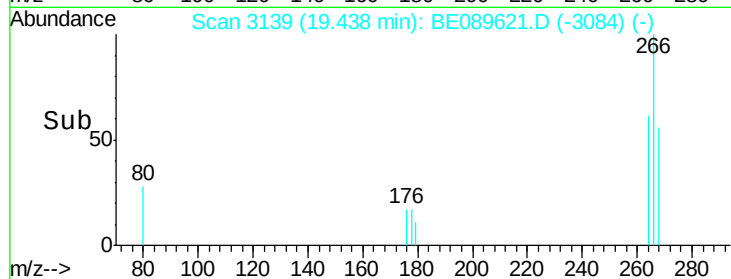
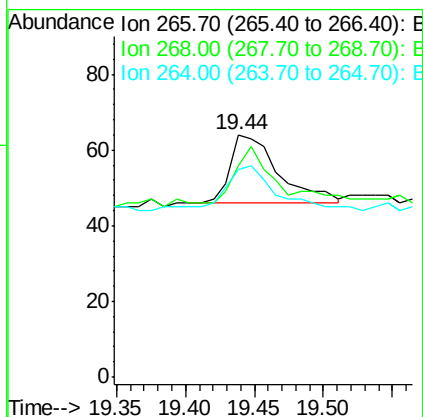
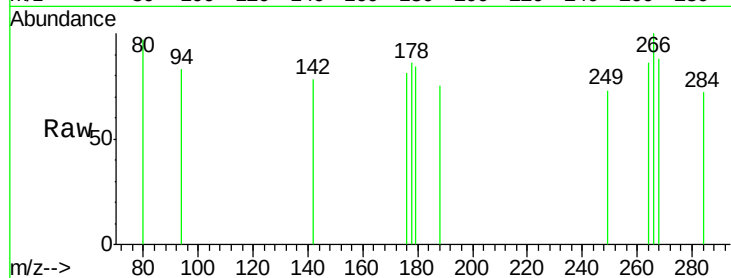




#15
 Pentachlorophenol
 Concen: 0.02 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. -0.00 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

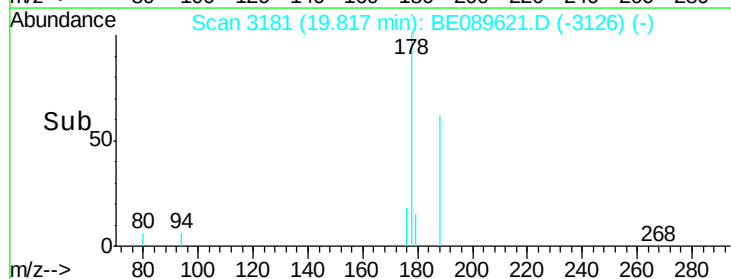
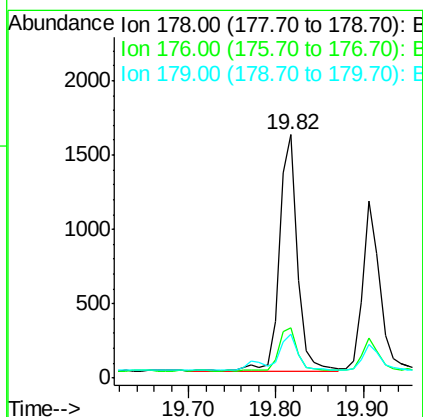
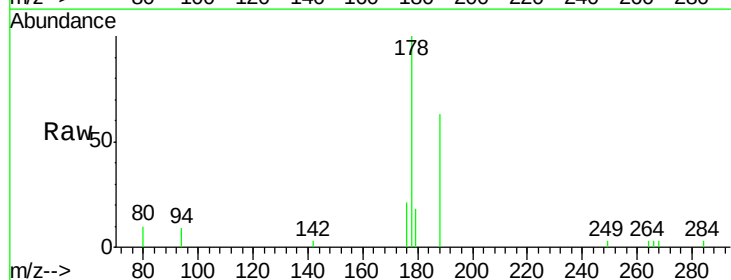
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

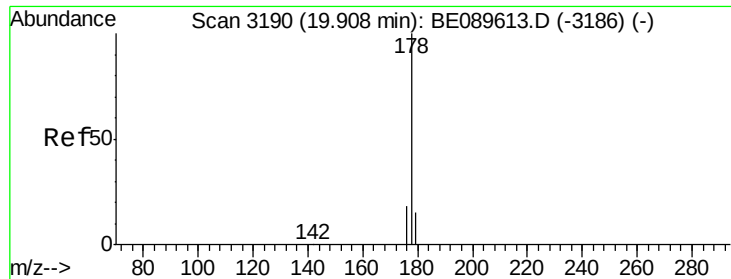
Tgt Ion: 266 Resp: 43
 Ion Ratio Lower Upper
 266 100
 268 87.5 52.6 79.0#
 264 85.9 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

Tgt Ion: 178 Resp: 2310
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 14.7 12.3 18.5

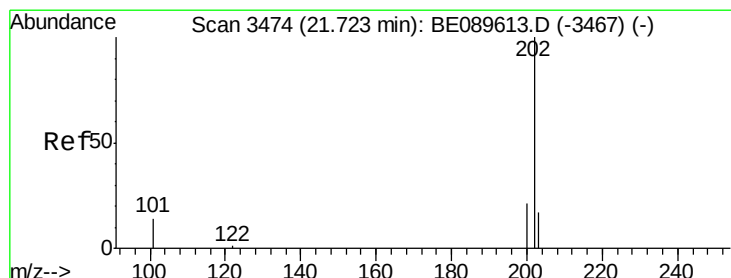
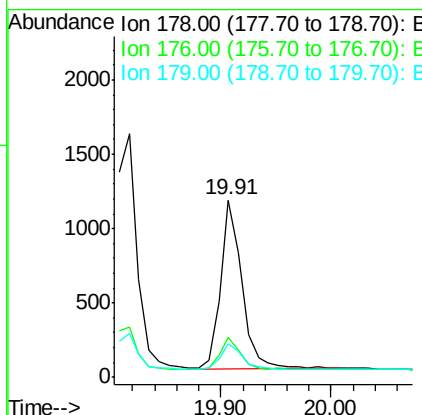
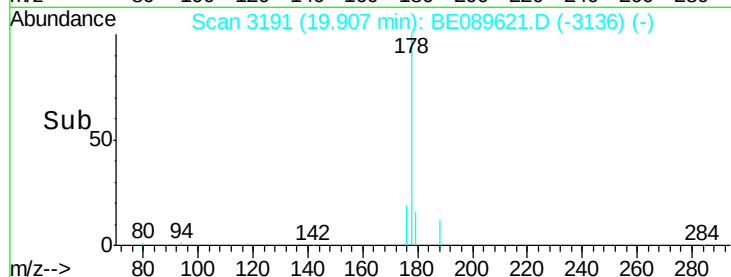
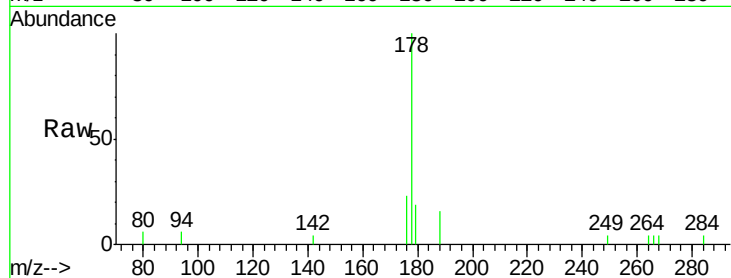




#17
 Anthracene
 Concen: 0.05 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. -0.00 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

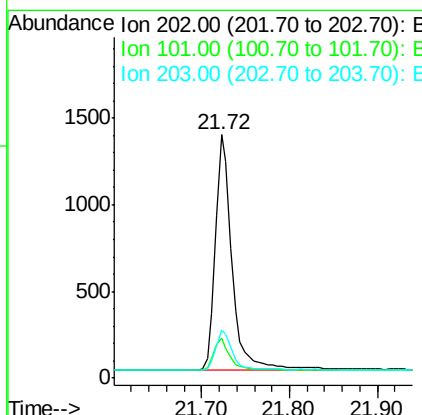
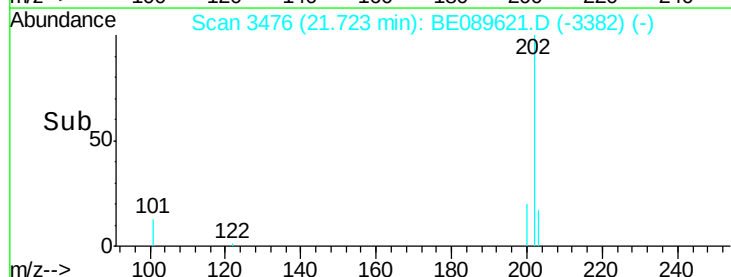
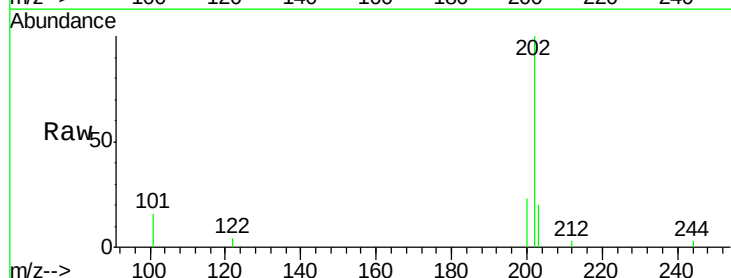
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

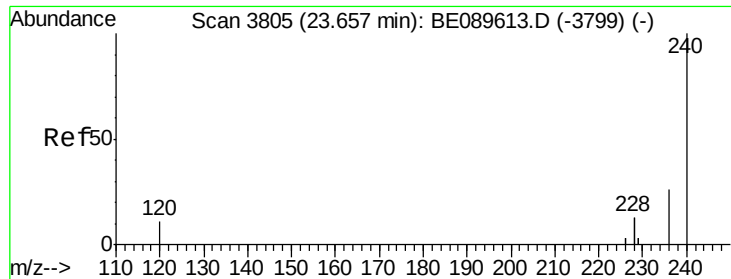
Tgt Ion:178 Resp: 1547
 Ion Ratio Lower Upper
 178 100
 176 19.1 14.6 22.0
 179 14.9 12.3 18.5



#18
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. -0.00 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

Tgt Ion:202 Resp: 1783
 Ion Ratio Lower Upper
 202 100
 101 13.1 10.4 15.6
 203 16.9 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

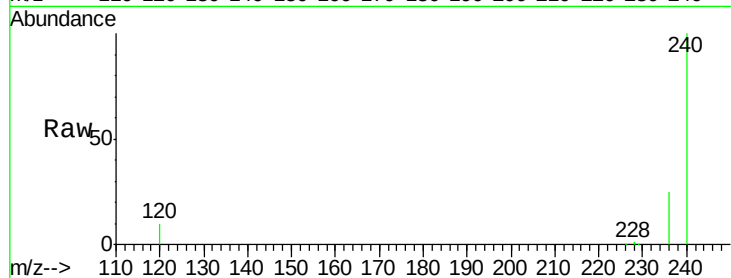
Tgt Ion:240 Resp: 131712

Ion Ratio Lower Upper

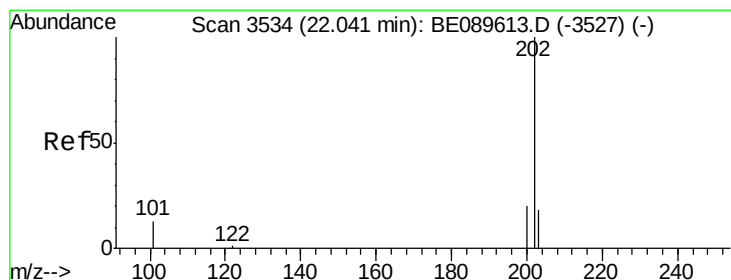
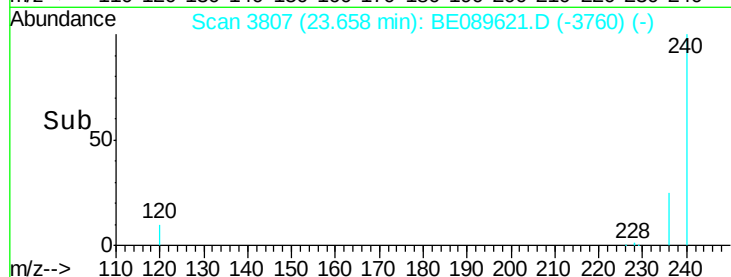
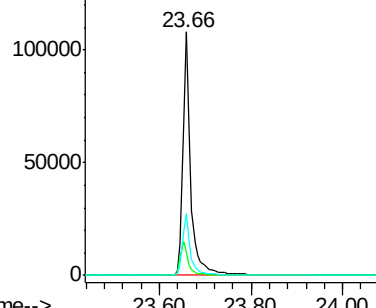
240 100

120 9.7 9.0 13.4

236 25.3 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3536

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

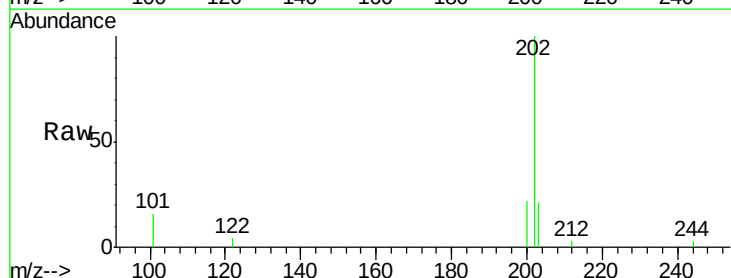
Tgt Ion:202 Resp: 1932

Ion Ratio Lower Upper

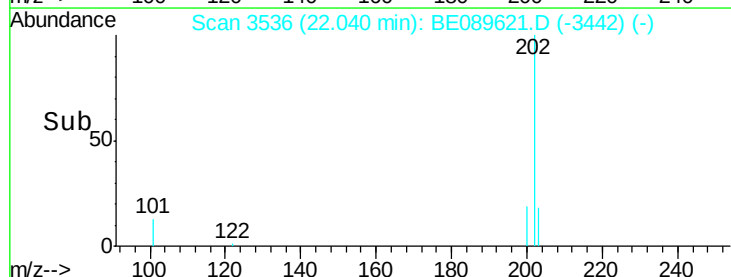
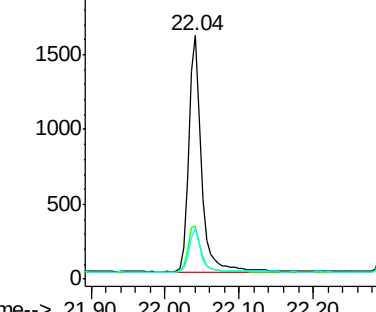
202 100

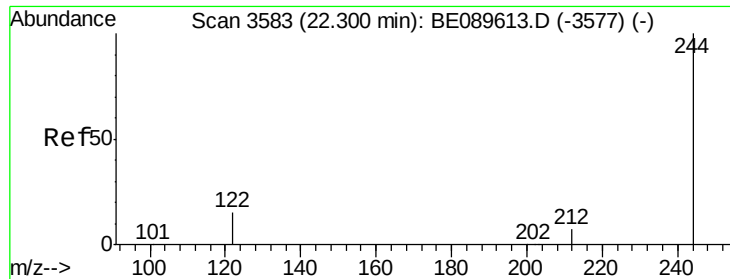
200 20.5 16.3 24.5

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: 11.84 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

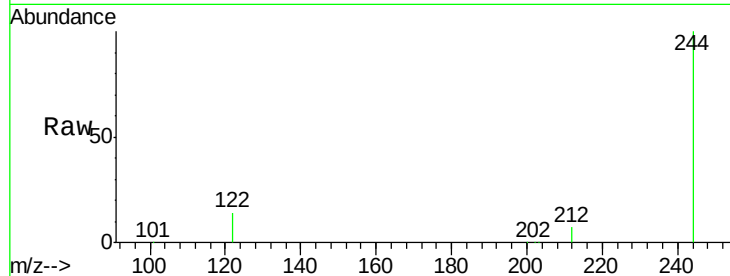
Tgt Ion:244 Resp: 224148

Ion Ratio Lower Upper

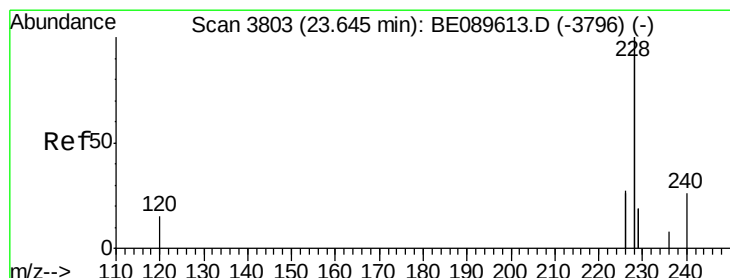
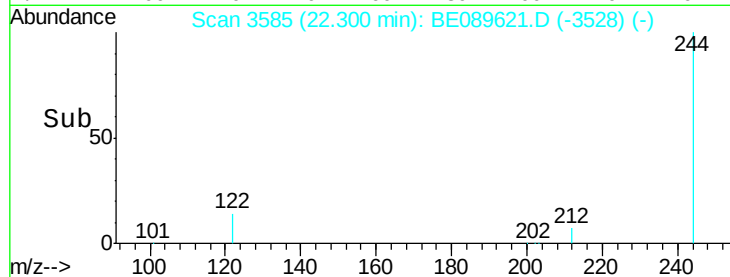
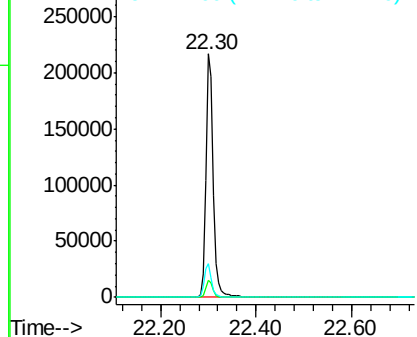
244 100

212 7.1 5.8 8.8

122 14.1 11.8 17.8



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.01 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

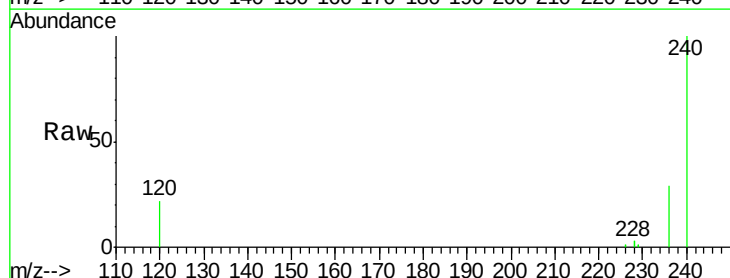
Tgt Ion:228 Resp: 7245

Ion Ratio Lower Upper

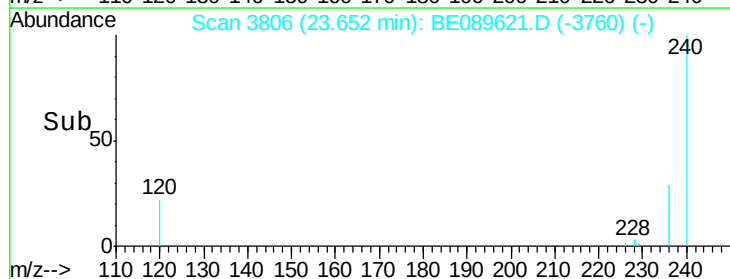
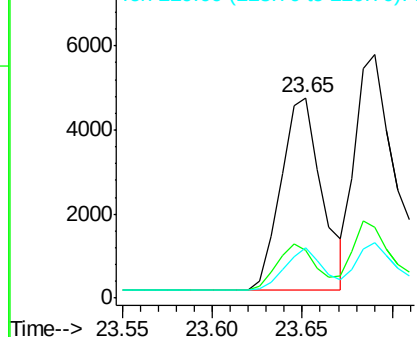
228 100

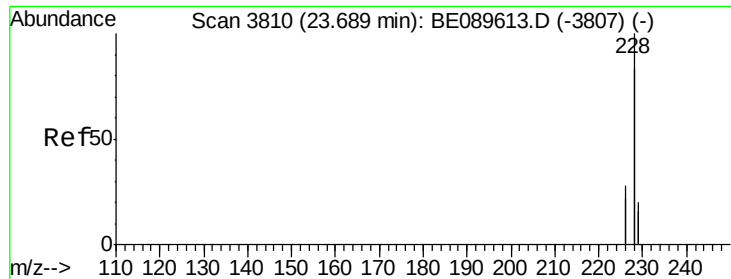
226 23.9 21.2 31.8

229 24.9 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# 3812

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

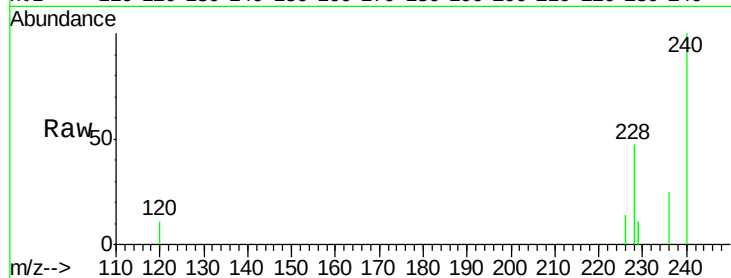
Tgt Ion: 228 Resp: 10913

Ion Ratio Lower Upper

228 100

226 29.0 22.2 33.4

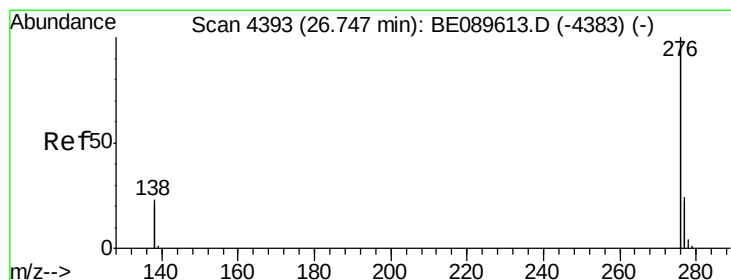
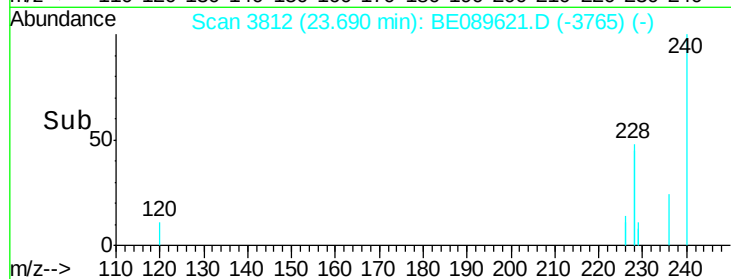
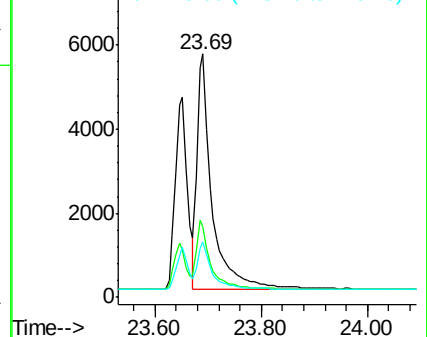
229 22.9 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.20 ng

RT: 26.74 min Scan# 4394

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

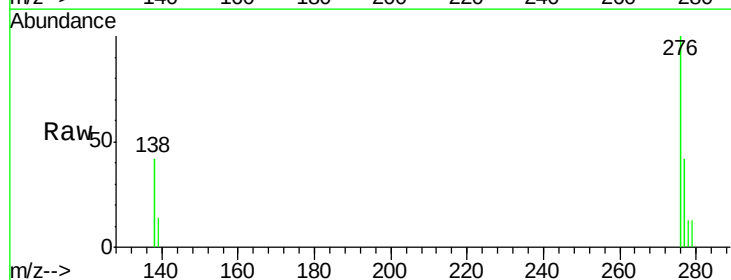
Tgt Ion: 276 Resp: 2594

Ion Ratio Lower Upper

276 100

138 19.6 21.4 32.2#

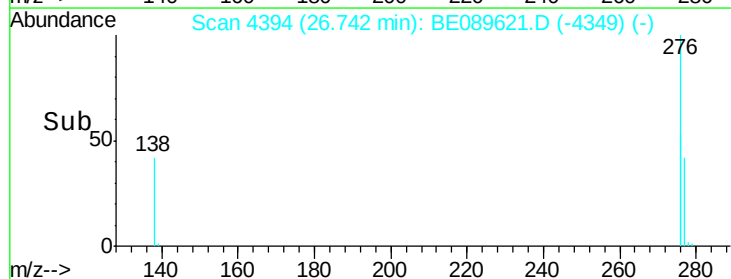
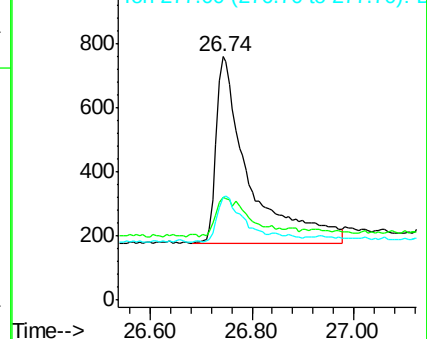
277 20.2 19.9 29.9

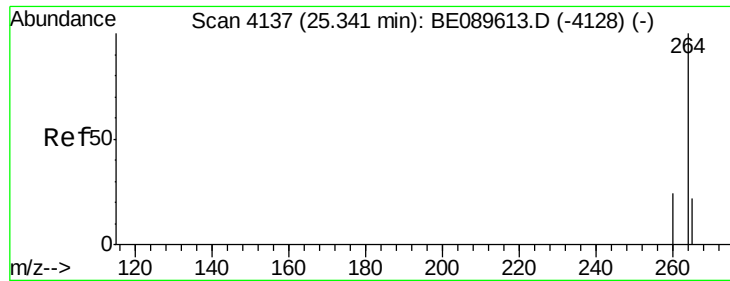


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

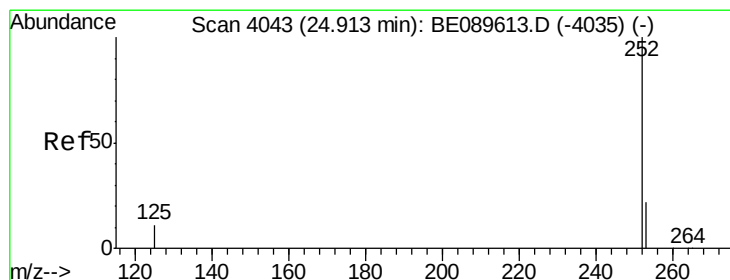
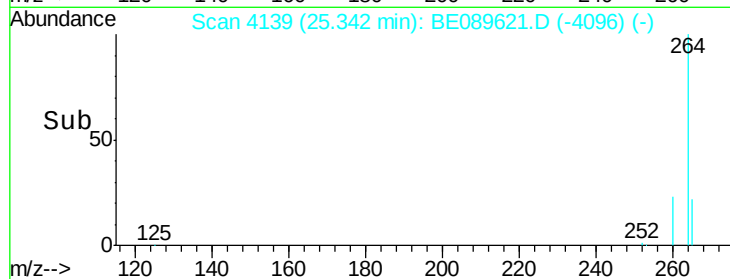
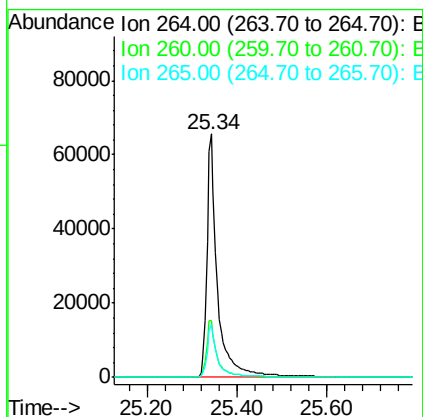
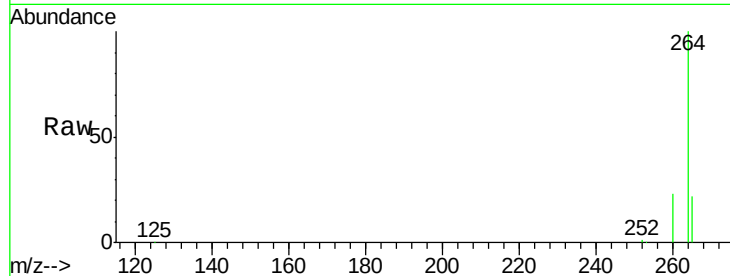




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4139
 Delta R.T. 0.00 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

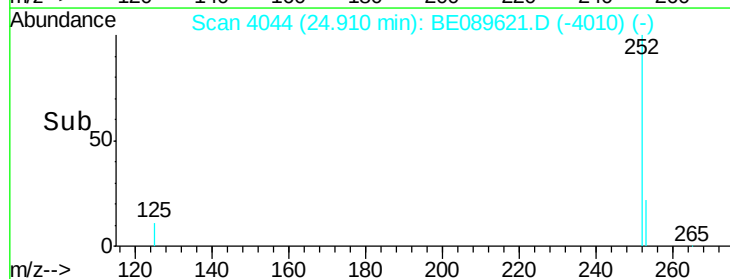
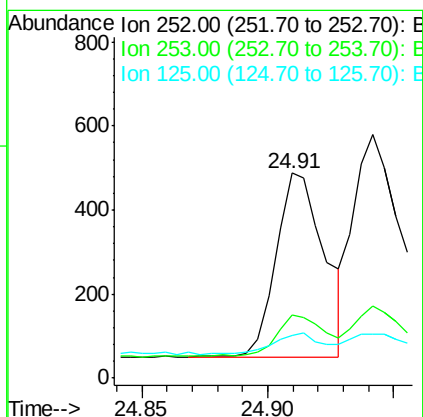
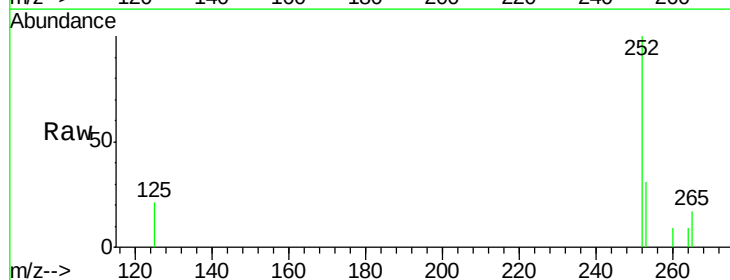
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

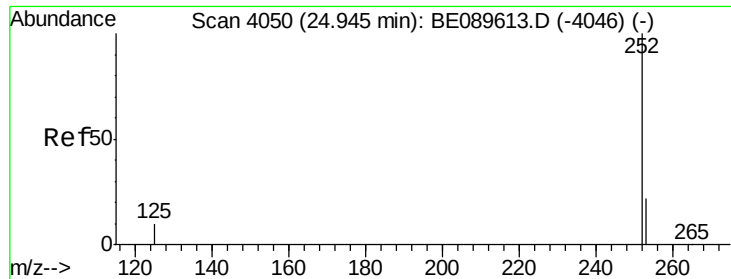
Tgt Ion: 264 Resp: 107711
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.0 28.6
 265 21.9 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. -0.00 min
 Lab File: BE089621.D
 Acq: 18 Feb 2015 16:56

Tgt Ion: 252 Resp: 581
 Ion Ratio Lower Upper
 252 100
 253 30.5 17.6 26.4#
 125 20.9 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

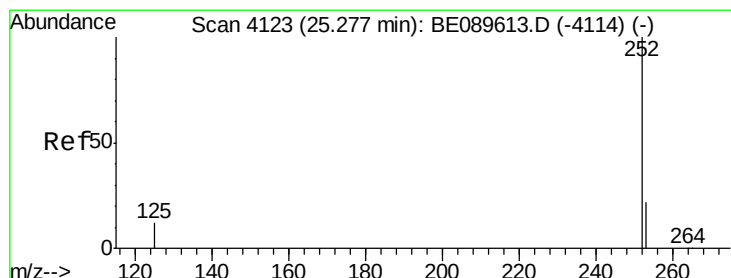
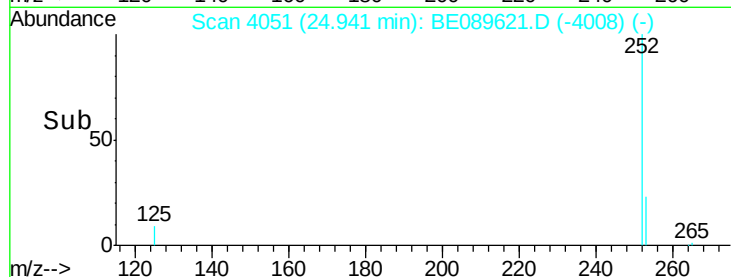
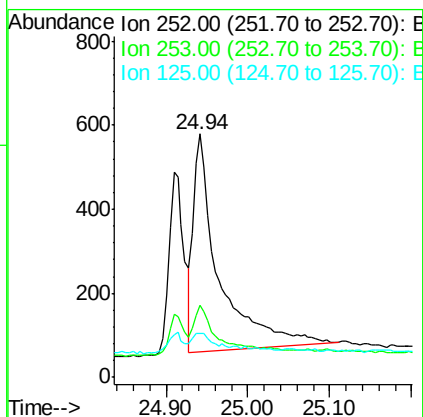
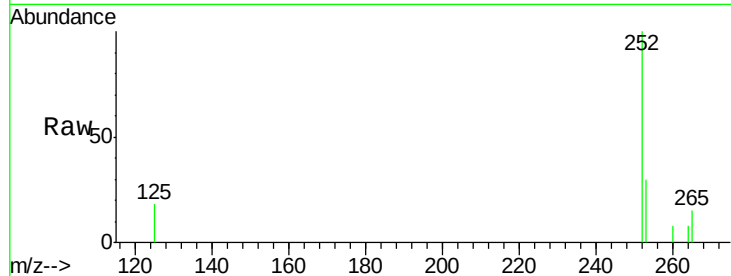
Tgt Ion:252 Resp: 1119

Ion Ratio Lower Upper

252 100

253 29.9 17.7 26.5#

125 18.1 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: BE089621.D

Acq: 18 Feb 2015 16:56

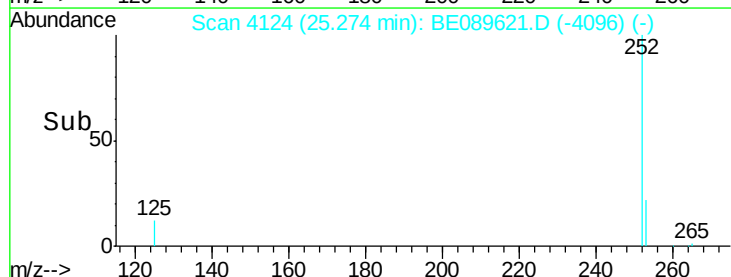
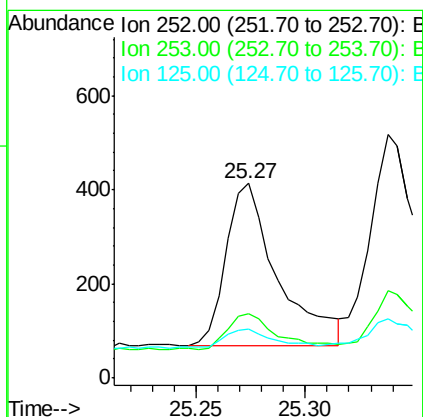
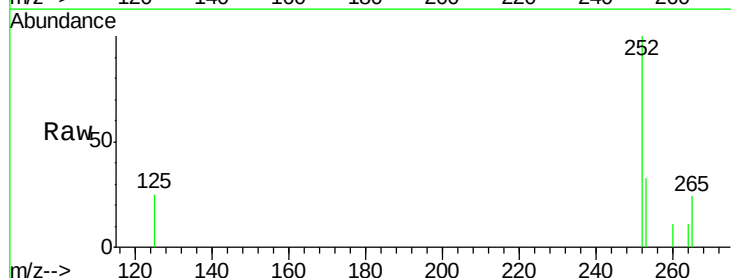
Tgt Ion:252 Resp: 568

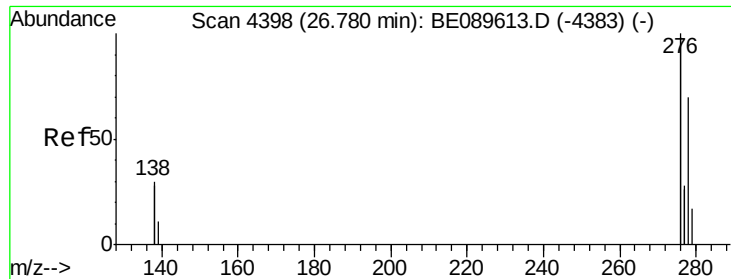
Ion Ratio Lower Upper

252 100

253 33.2 18.1 27.1#

125 24.9 9.6 14.4#





#29

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

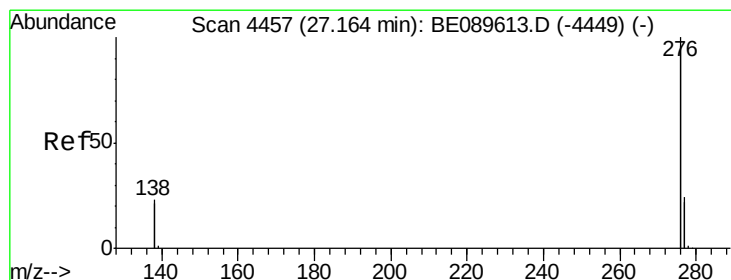
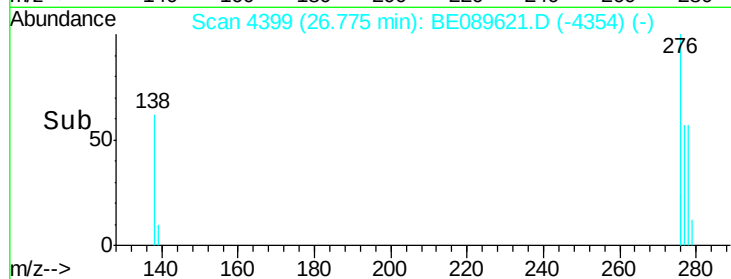
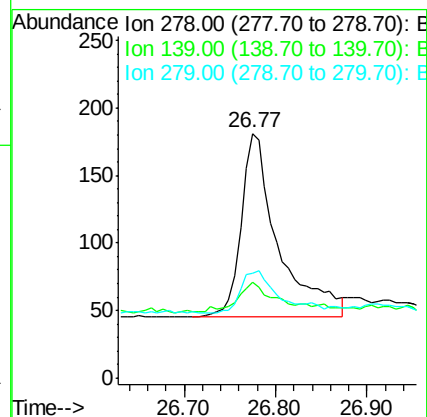
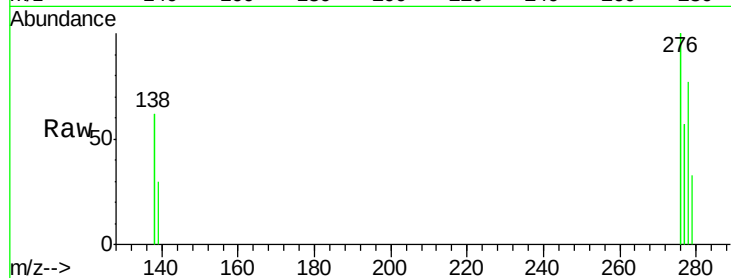
Tgt Ion: 278 Resp: 385

Ion Ratio Lower Upper

278 100

139 39.2 13.7 20.5#

279 43.1 19.7 29.5#



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.17 min Scan# 4459

Delta R.T. 0.00 min

Lab File: BE089621.D

Acq: 18 Feb 2015 16:56

Tgt Ion: 276 Resp: 2996

Ion Ratio Lower Upper

276 100

277 38.7 19.1 28.7#

138 37.7 18.7 28.1#

