

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010715\
 Data File : BE089357.D
 Acq On : 8 Jan 2015 10:13
 Operator : TP/IZ
 Sample : G1011-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW1

Quant Time: Jan 08 15:57:18 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 15:21:44 2015
 Response via : Initial Calibration

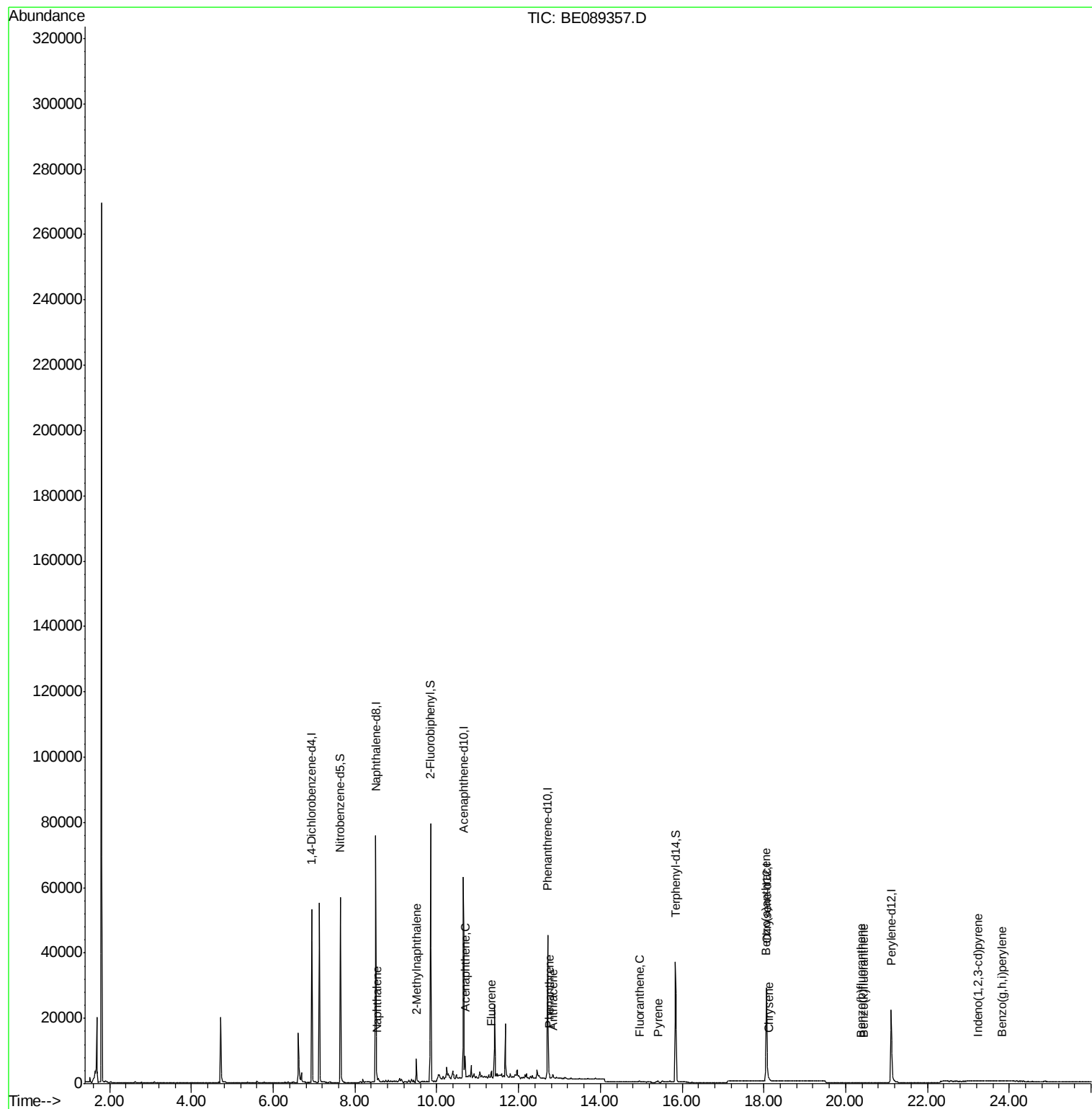
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	16817	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	64973	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	30947	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	48180	5.00	ng	0.00
15) Chrysene-d12	18.06	240	36197	5.00	ng	0.00
21) Perylene-d12	21.12	264	32259	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.64	82	30035	6.65	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	55316	6.55	ng	0.00
17) Terphenyl-d14	15.84	244	48173	7.52	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.54	128	418	0.03	ng	# 1
5) 2-Methylnaphthalene	9.51	142	3602	0.39	ng	96
9) Acenaphthene	10.69	154	1135	0.14	ng	88
10) Fluorene	11.34	166	1118	0.13	ng	93
12) Phenanthrene	12.75	178	1734	0.03	ng	# 53
13) Anthracene	12.84	178	1160	0.02	ng	# 29
14) Fluoranthene	14.96	202	356	0.03	ng	# 54
16) Pyrene	15.41	202	510	0.04	ng	# 72
18) Benzo(a)anthracene	18.05	228	1316	0.04	ng	# 66
19) Chrysene	18.12	228	1046	0.03	ng	# 56
20) Indeno(1,2,3-cd)pyrene	23.24	276	758	0.02	ng	# 78
22) Benzo(b)fluoranthene	20.38	252	178	0.03	ng	# 7
23) Benzo(k)fluoranthene	20.43	252	219	0.02	ng	# 17
26) Benzo(g,h,i)perylene	23.82	276	710	0.02	ng	# 18

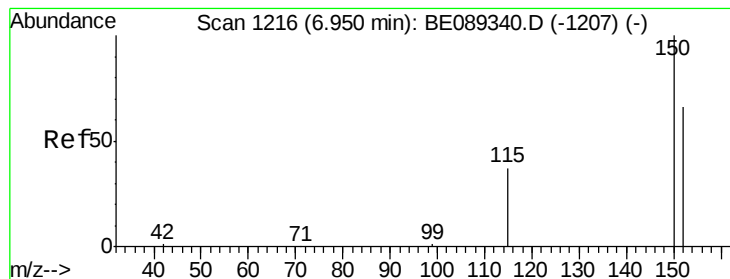
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010715\
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Instrument :
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QLast Update : Thu Jan 08 15:21:44 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

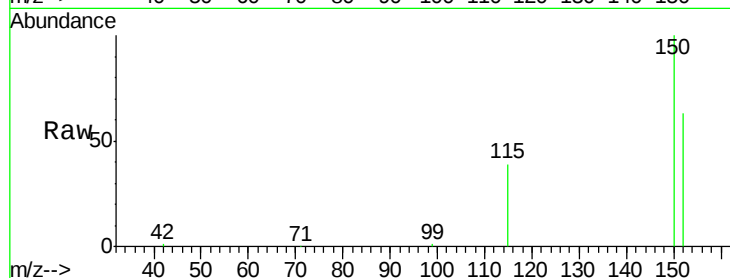
Tgt Ion:152 Resp: 16817

Ion Ratio Lower Upper

152 100

150 158.7 121.5 182.3

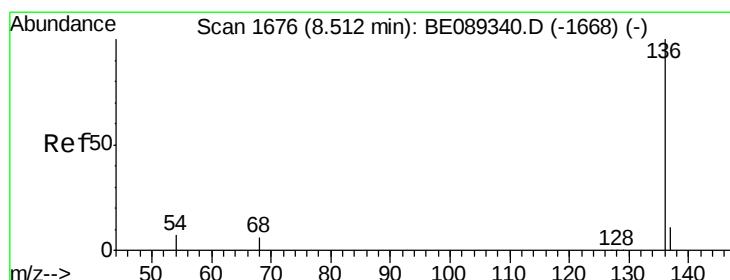
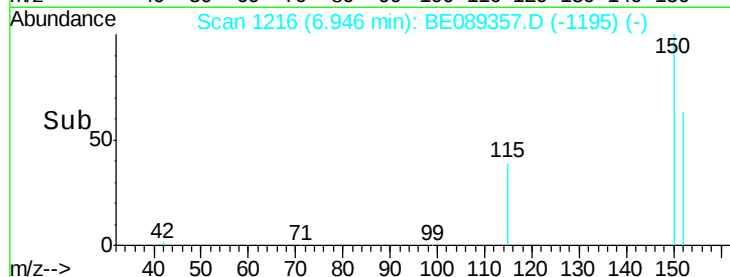
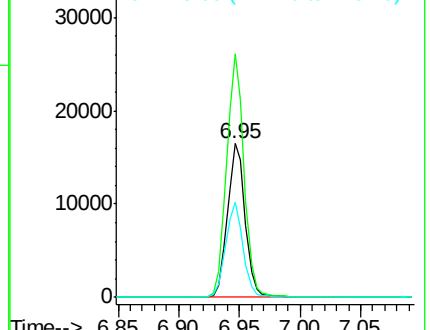
115 62.1 45.2 67.8



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

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1676

Delta R.T. -0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Tgt Ion:136 Resp: 64973

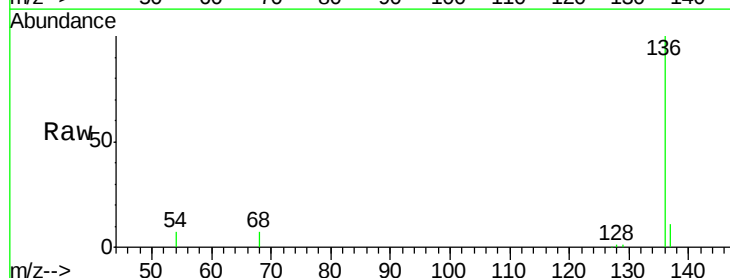
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 7.3 5.4 8.0

68 6.5 4.7 7.1

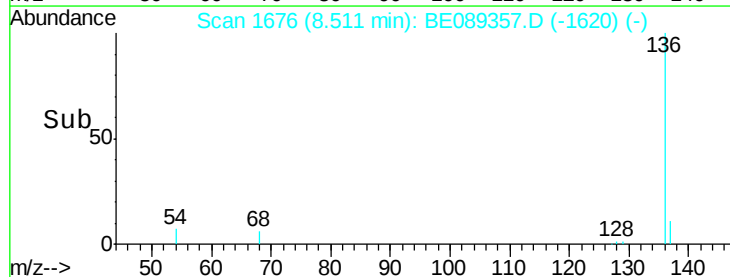
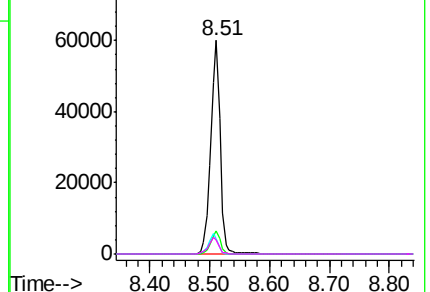


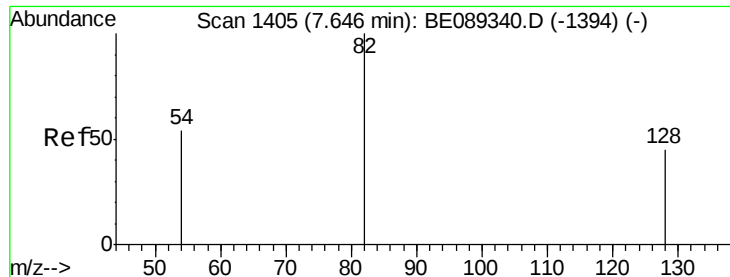
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 6.65 ng

RT: 7.64 min Scan# 1404

Delta R.T. -0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

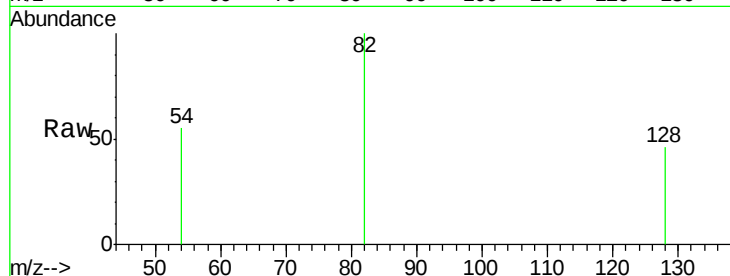
Tgt Ion: 82 Resp: 30035

Ion Ratio Lower Upper

82 100

128 45.9 36.5 54.7

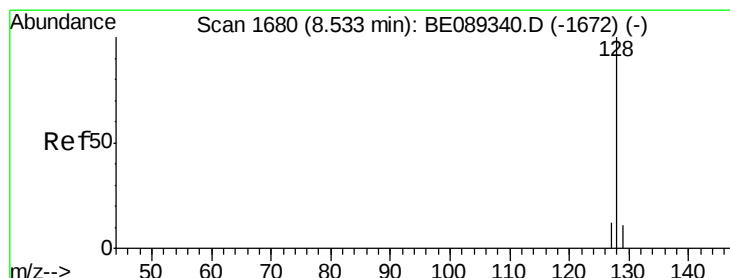
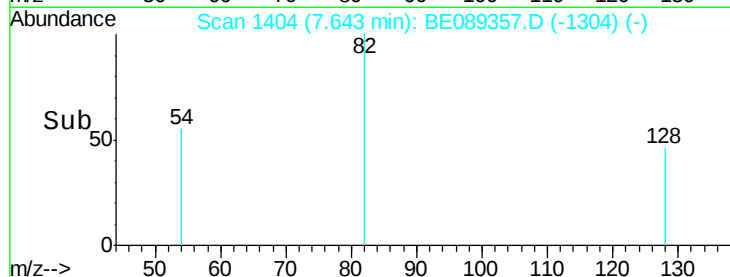
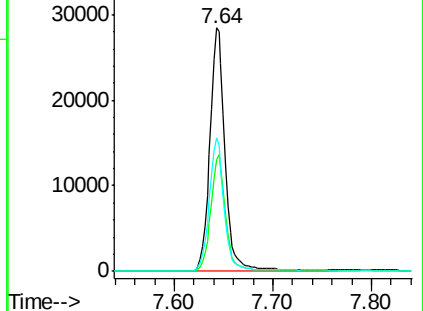
54 54.8 43.5 65.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.03 ng

RT: 8.54 min Scan# 1682

Delta R.T. 0.01 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

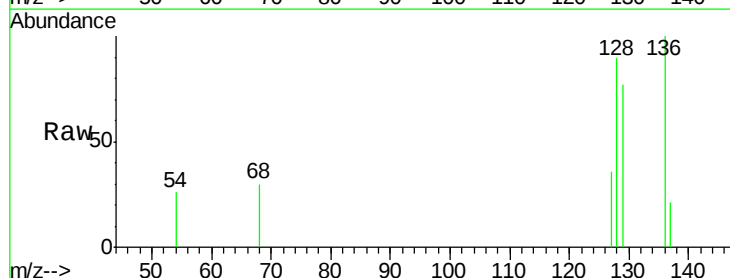
Tgt Ion: 128 Resp: 418

Ion Ratio Lower Upper

128 100

129 85.7 8.8 13.2#

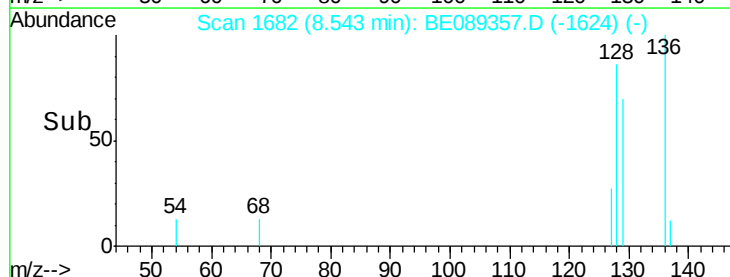
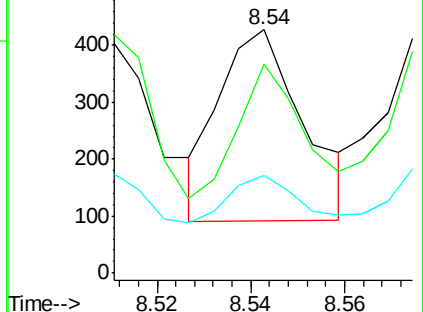
127 40.0 10.0 15.0#

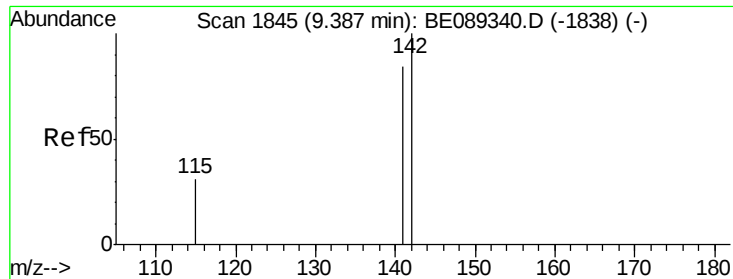


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.39 ng

RT: 9.51 min Scan# 1871

Delta R.T. 0.12 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

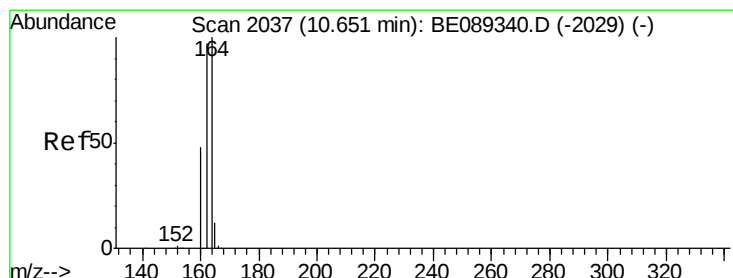
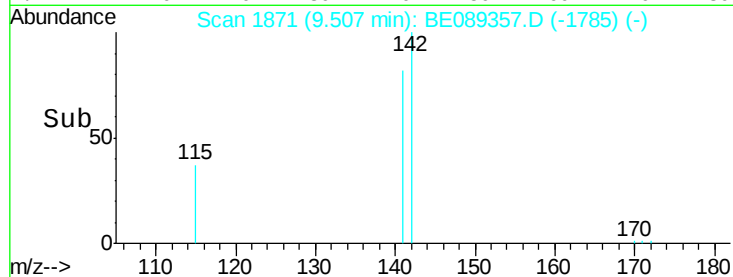
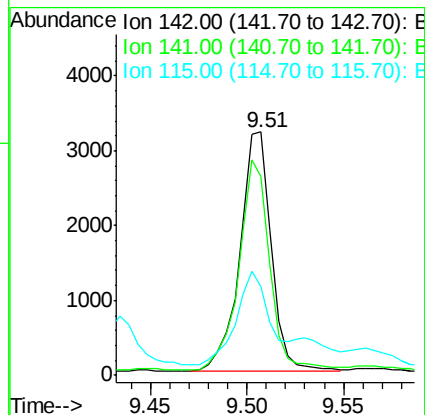
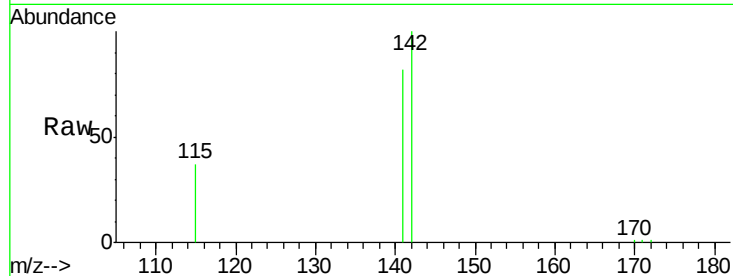
Tgt Ion:142 Resp: 3602

Ion Ratio Lower Upper

142 100

141 81.6 66.3 99.5

115 36.6 25.2 37.8



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.65 min Scan# 2036

Delta R.T. -0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

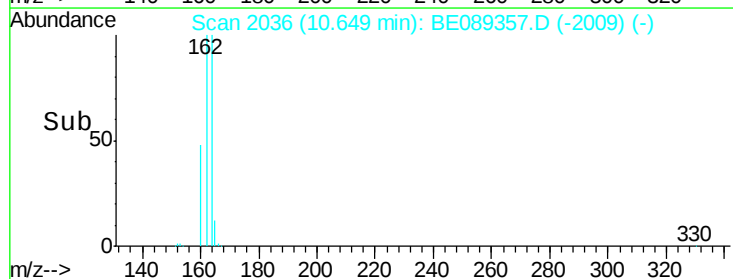
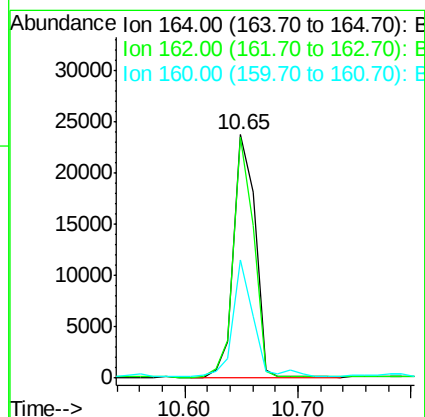
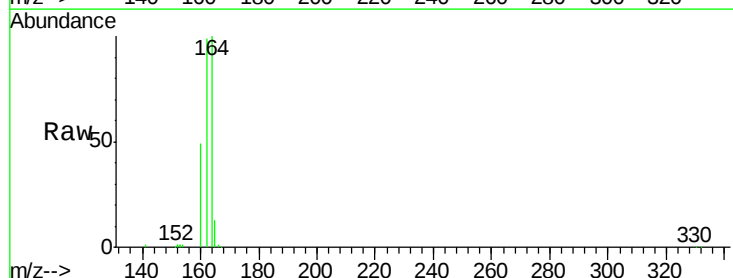
Tgt Ion:164 Resp: 30947

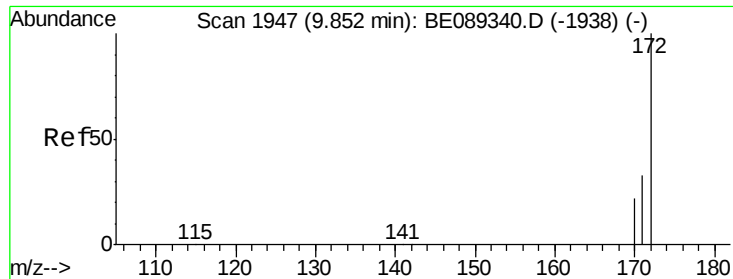
Ion Ratio Lower Upper

164 100

162 99.1 77.4 116.2

160 48.7 38.2 57.4





#7

2-Fluorobiphenyl

Concen: 6.55 ng

RT: 9.85 min Scan# 1947

Delta R.T. 0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

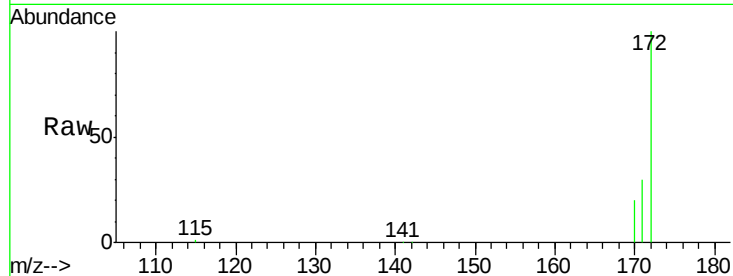
Tgt Ion:172 Resp: 55316

Ion Ratio Lower Upper

172 100

171 30.3 26.4 39.6

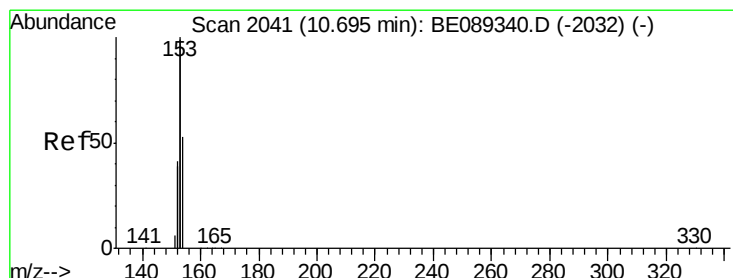
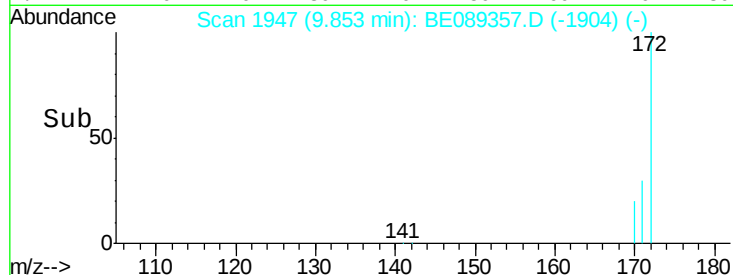
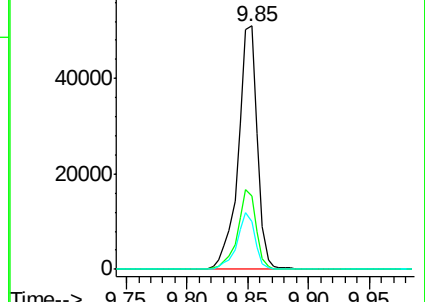
170 19.6 18.0 27.0



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



#9

Acenaphthene

Concen: 0.14 ng

RT: 10.69 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

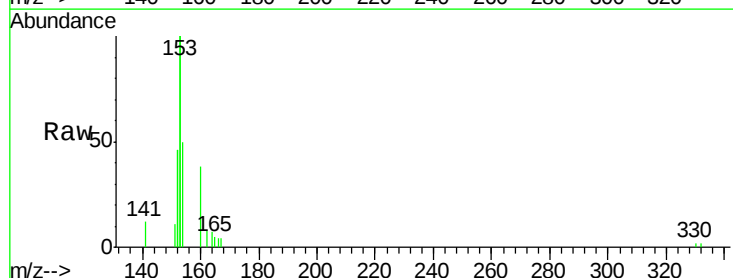
Tgt Ion:154 Resp: 1135

Ion Ratio Lower Upper

154 100

153 396.1 300.6 450.8

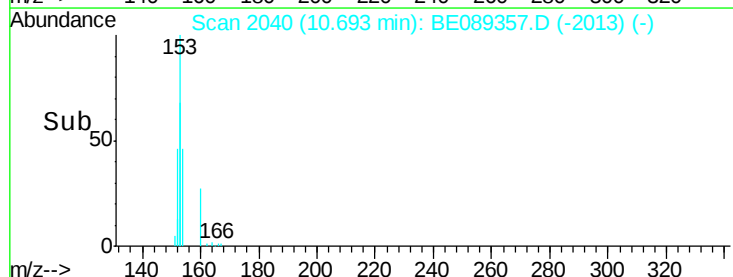
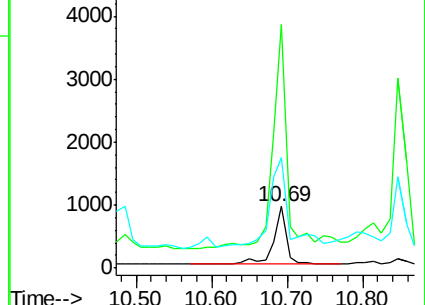
152 180.3 123.3 184.9

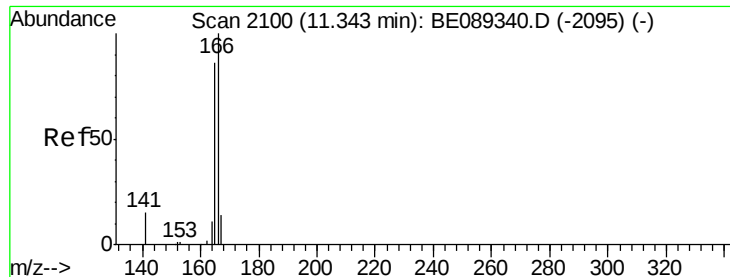


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#10

Fluorene

Concen: 0.13 ng

RT: 11.34 min Scan# 2099

Delta R.T. -0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

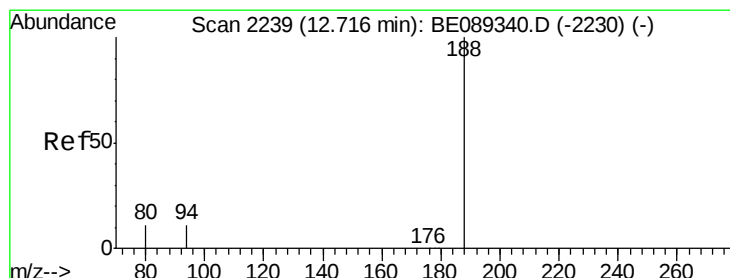
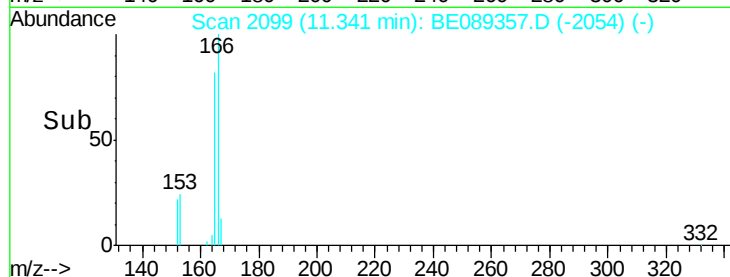
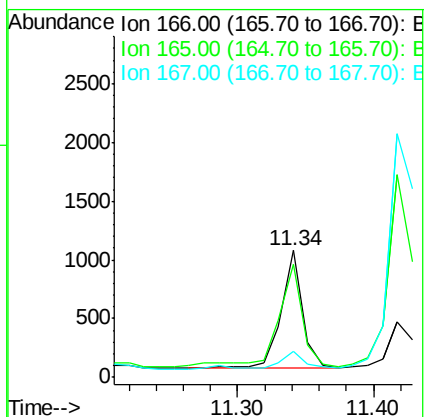
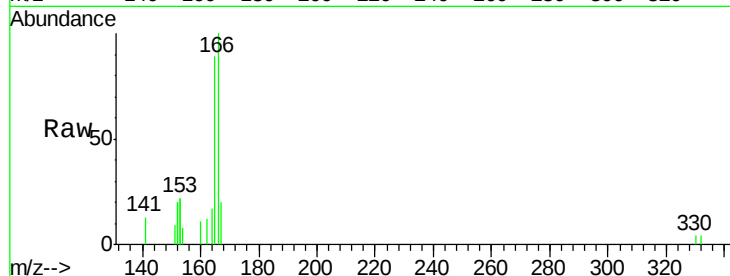
Tgt Ion:166 Resp: 1118

Ion Ratio Lower Upper

166 100

165 97.1 72.1 108.1

167 14.2 11.0 16.4



#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.72 min Scan# 2239

Delta R.T. 0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

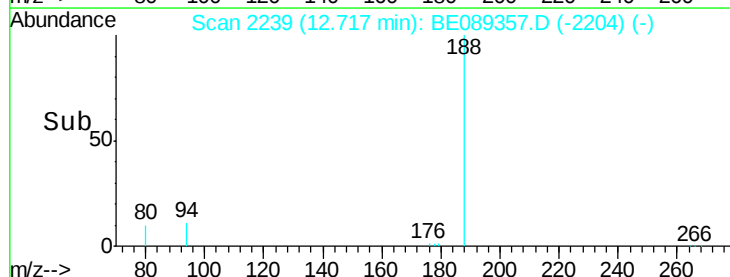
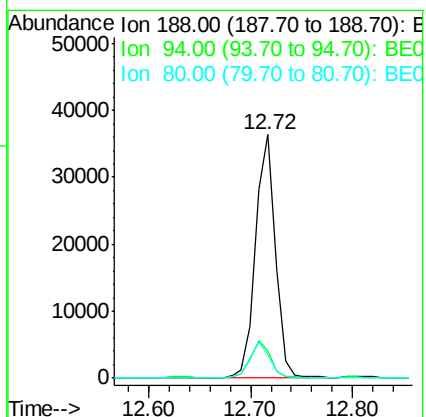
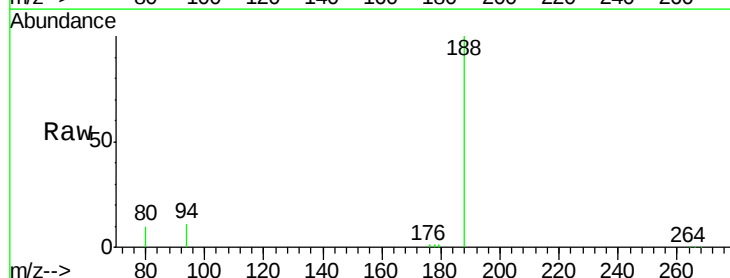
Tgt Ion:188 Resp: 48180

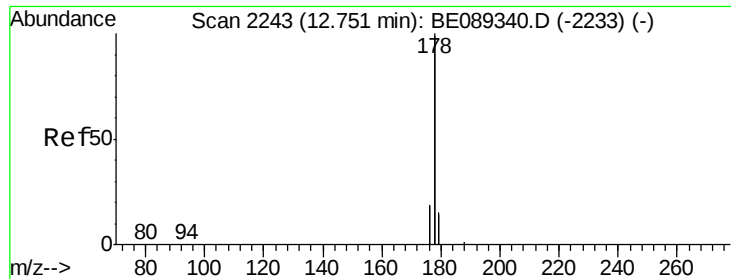
Ion Ratio Lower Upper

188 100

94 11.0 11.0 12.2#

80 9.9 10.1 11.1#





#12

Phenanthrene

Concen: 0.03 ng

RT: 12.75 min Scan# 2243

Delta R.T. 0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

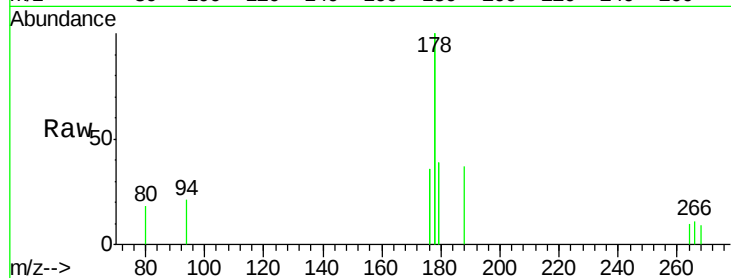
Tgt Ion:178 Resp: 1734

Ion Ratio Lower Upper

178 100

176 36.4 15.1 22.7#

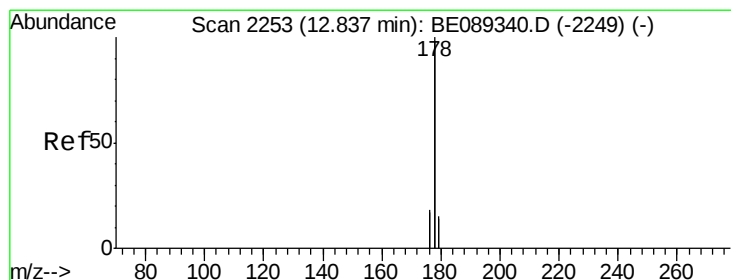
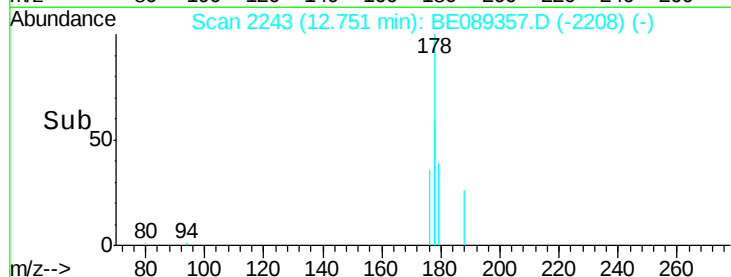
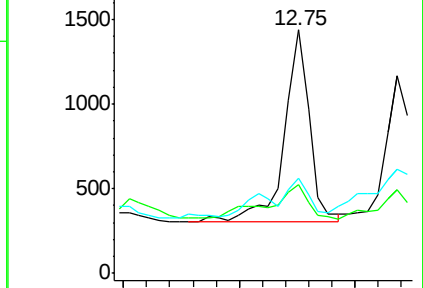
179 38.9 12.2 18.2#



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



#13

Anthracene

Concen: 0.02 ng

RT: 12.84 min Scan# 2253

Delta R.T. 0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

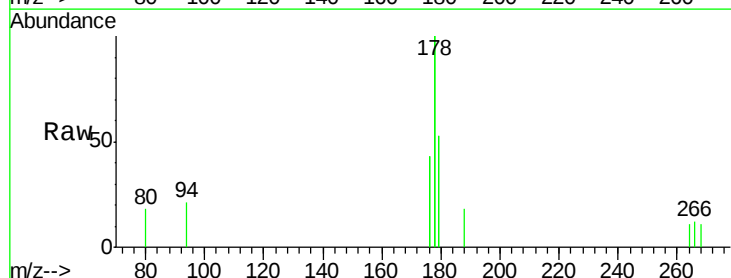
Tgt Ion:178 Resp: 1160

Ion Ratio Lower Upper

178 100

176 42.6 14.7 22.1#

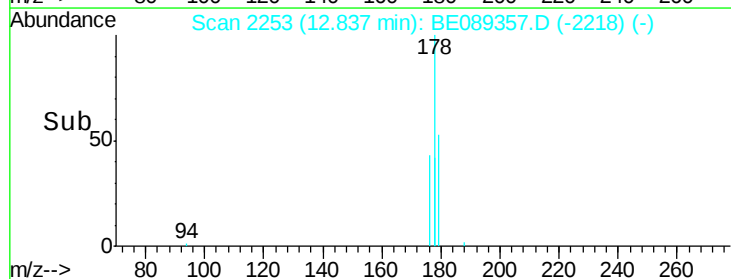
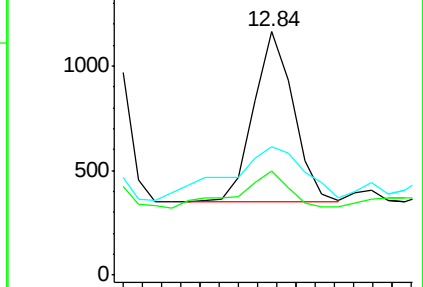
179 52.6 12.0 18.0#

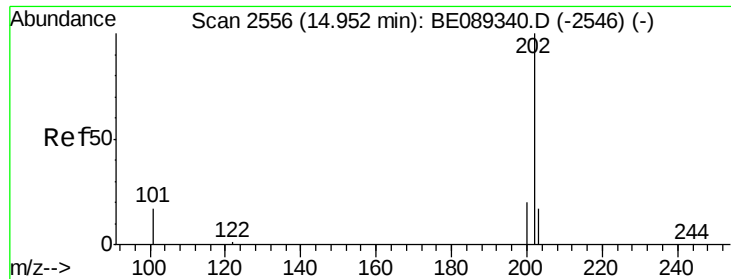


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Fluoranthene

Concen: 0.03 ng

RT: 14.96 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

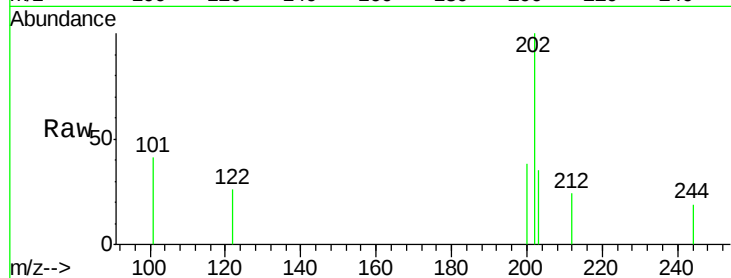
BNA_E

ClientSampleId :

MW1

Tgt Ion: 202 Resp: 356

Ion	Ratio	Lower	Upper
202	100		
101	40.9	0.0	37.9#
203	34.8	0.0	37.5



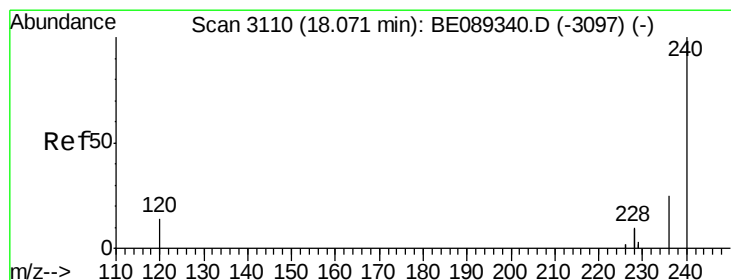
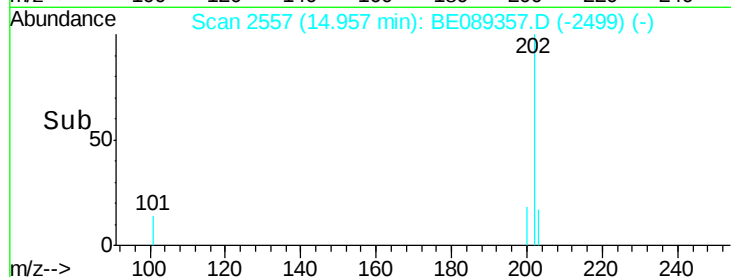
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

14.96

Time-->



#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.06 min Scan# 3109

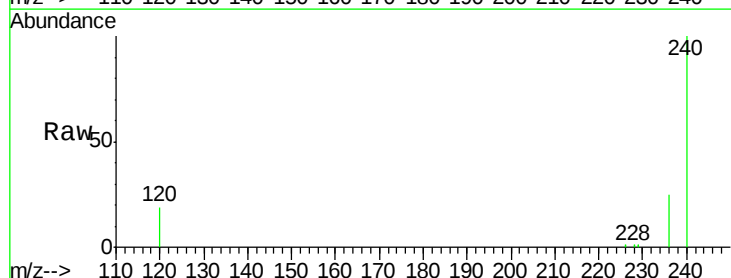
Delta R.T. -0.01 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Tgt Ion: 240 Resp: 36197

Ion	Ratio	Lower	Upper
240	100		
120	18.9	11.8	17.6#
236	25.4	20.0	30.0



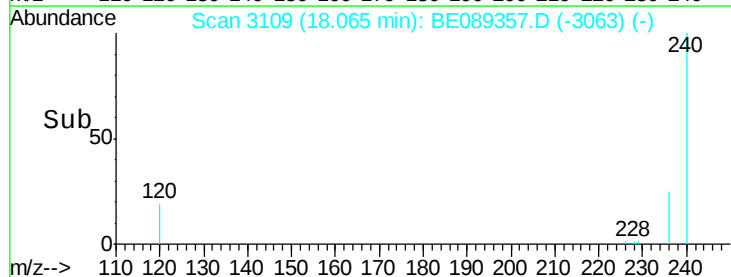
Abundance Ion 240.00 (239.70 to 240.70): E

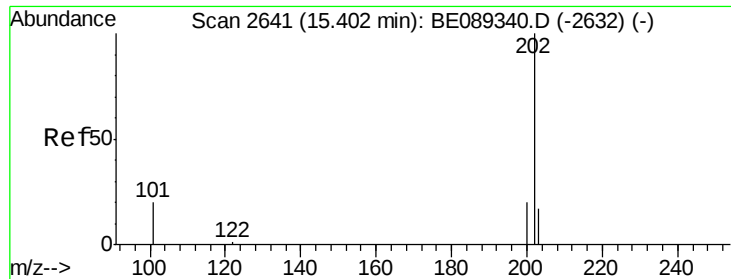
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

18.06

Time-->

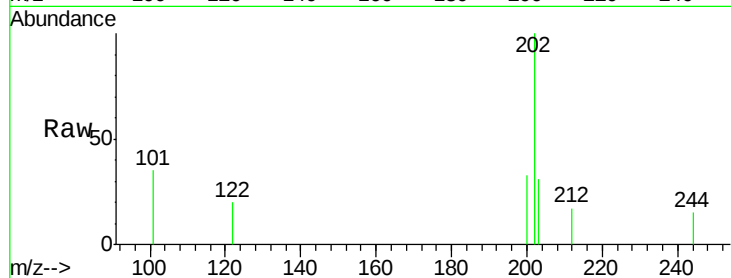




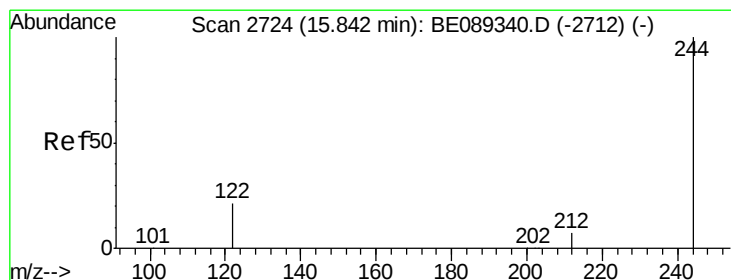
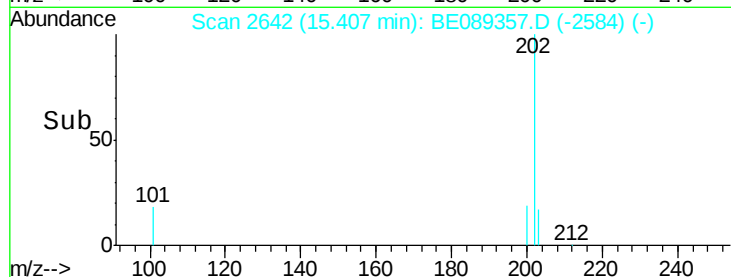
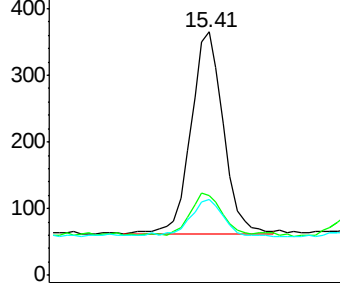
#16
 Pyrene
 Concen: 0.04 ng
 RT: 15.41 min Scan# 2642
 Delta R.T. 0.00 min
 Lab File: BE089357.D
 Acq: 8 Jan 2015 10:13

Instrument :
 BNA_E
 ClientSampleId :
 MW1

Tgt Ion: 202 Resp: 510
 Ion Ratio Lower Upper
 202 100
 200 32.9 16.8 25.2#
 203 31.2 14.0 21.0#

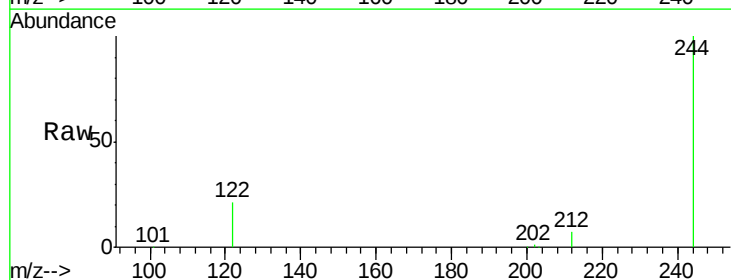


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

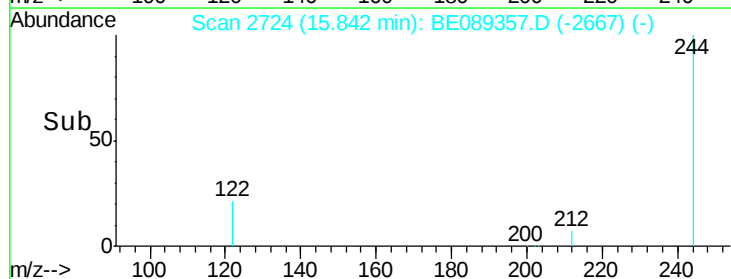
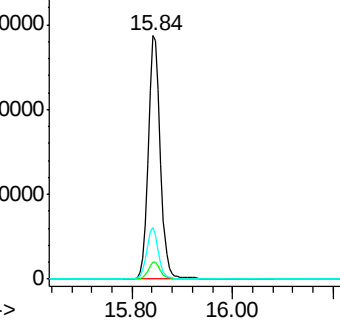


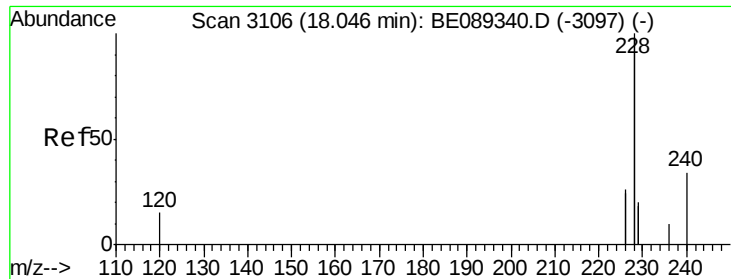
#17
 Terphenyl-d14
 Concen: 7.52 ng
 RT: 15.84 min Scan# 2724
 Delta R.T. -0.00 min
 Lab File: BE089357.D
 Acq: 8 Jan 2015 10:13

Tgt Ion: 244 Resp: 48173
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.3 9.5
 122 21.0 17.7 26.5



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





#18

Benzo(a)anthracene

Concen: 0.04 ng

RT: 18.05 min Scan# 3107

Delta R.T. 0.01 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

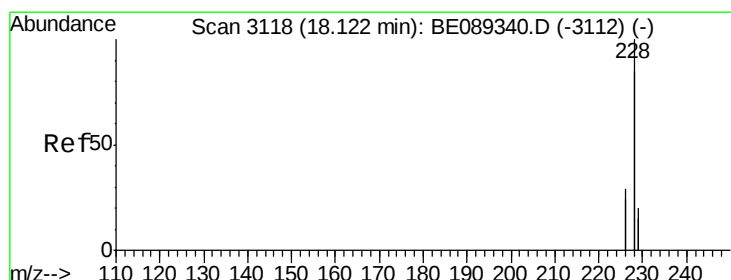
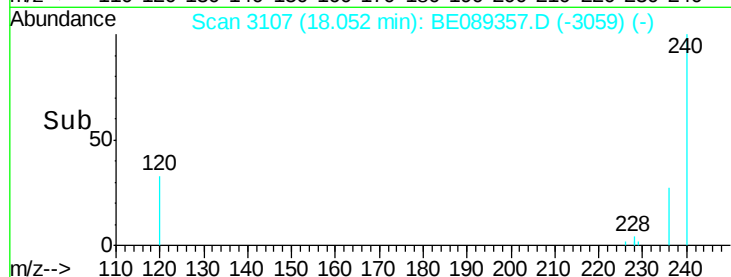
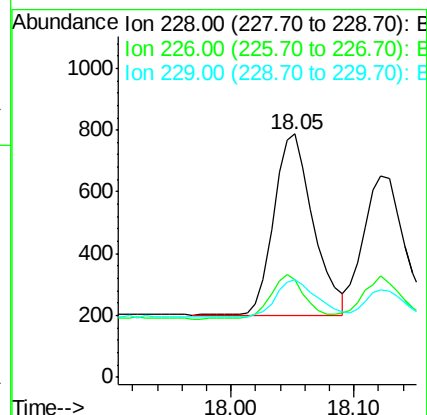
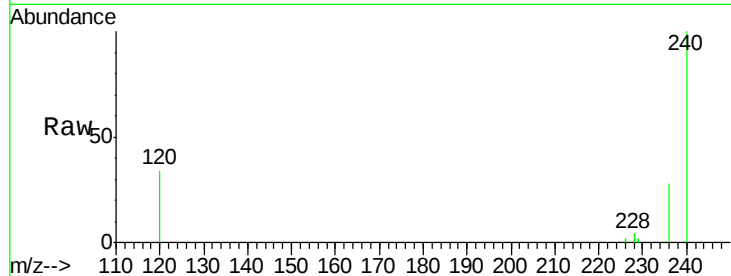
Tgt Ion:228 Resp: 1316

Ion Ratio Lower Upper

228 100

226 40.1 21.0 31.6#

229 40.1 16.0 24.0#



#19

Chrysene

Concen: 0.03 ng

RT: 18.12 min Scan# 3118

Delta R.T. -0.00 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

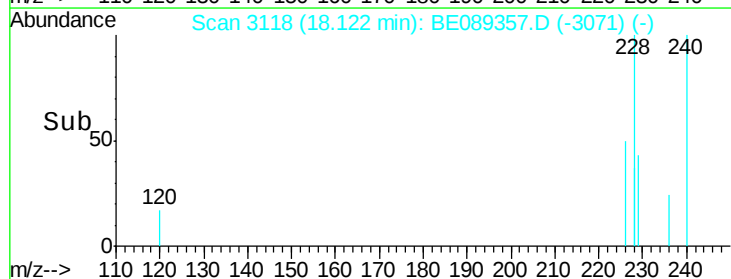
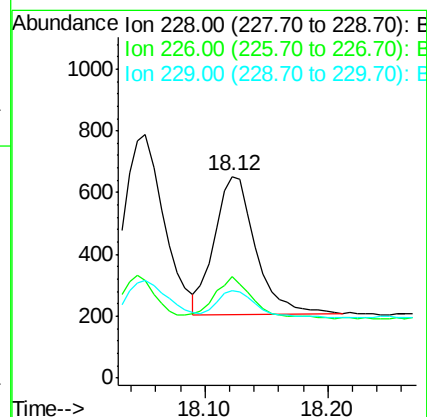
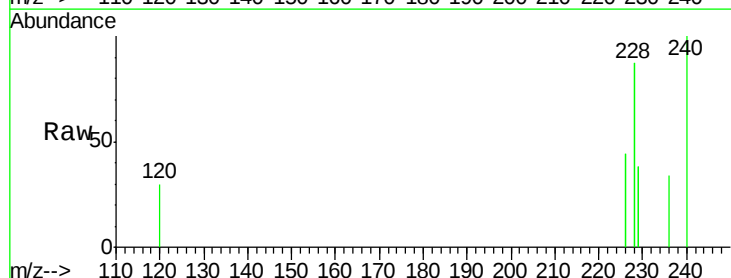
Tgt Ion:228 Resp: 1046

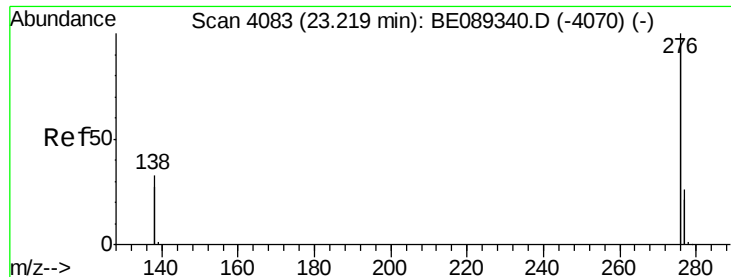
Ion Ratio Lower Upper

228 100

226 50.3 23.5 35.3#

229 43.3 16.1 24.1#





#20

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 23.24 min Scan# 4085

Delta R.T. 0.02 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

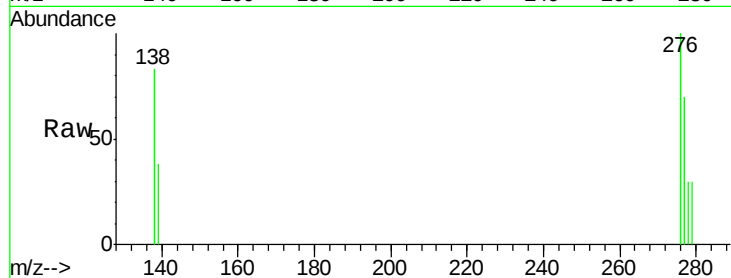
Tgt Ion:276 Resp: 758

Ion Ratio Lower Upper

276 100

138 16.5 23.8 35.8#

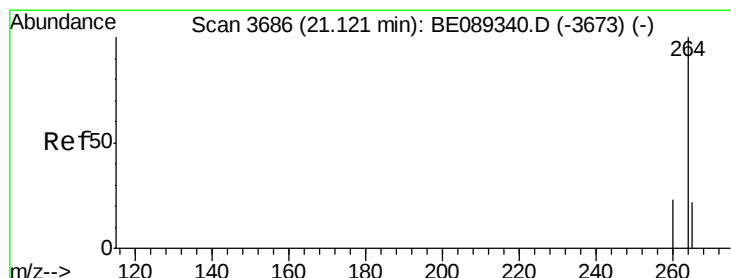
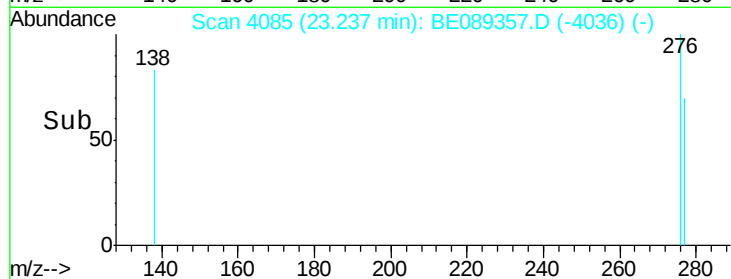
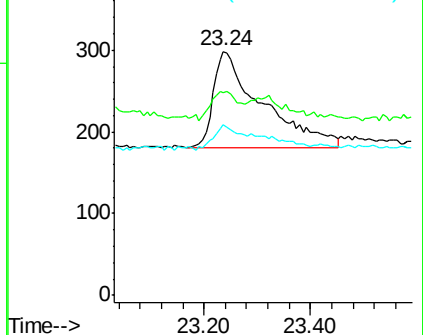
277 13.6 18.2 27.4#



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



#21

Perylene-d12

Concen: 5.00 ng

RT: 21.12 min Scan# 3684

Delta R.T. -0.01 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

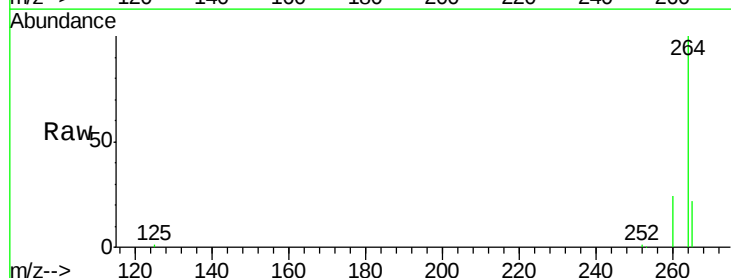
Tgt Ion:264 Resp: 32259

Ion Ratio Lower Upper

264 100

260 24.0 18.9 28.3

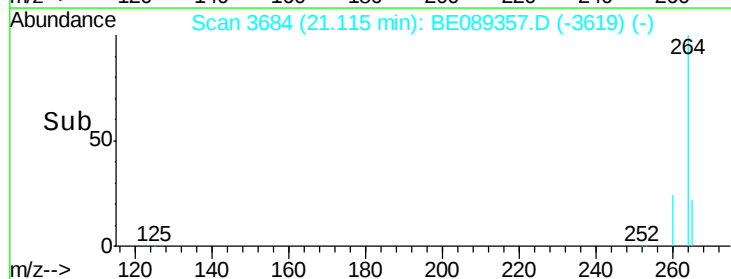
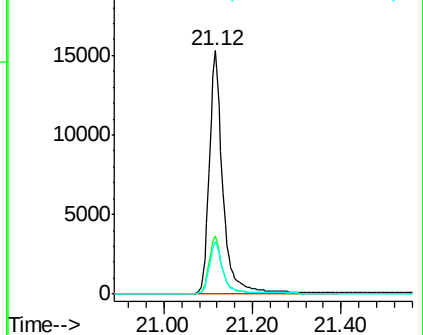
265 21.8 17.4 26.2

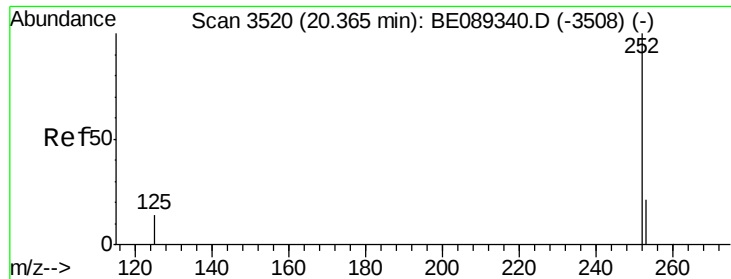


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#22

Benzo(b)fluoranthene

Concen: 0.03 ng

RT: 20.38 min Scan# 3522

Delta R.T. 0.01 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1

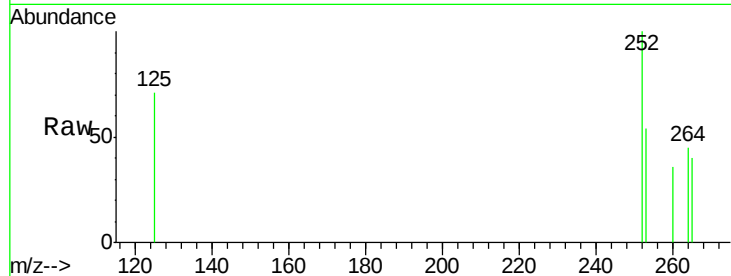
Tgt Ion:252 Resp: 178

Ion Ratio Lower Upper

252 100

253 53.7 17.8 26.6#

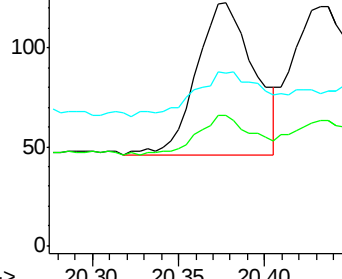
125 70.7 12.6 18.8#



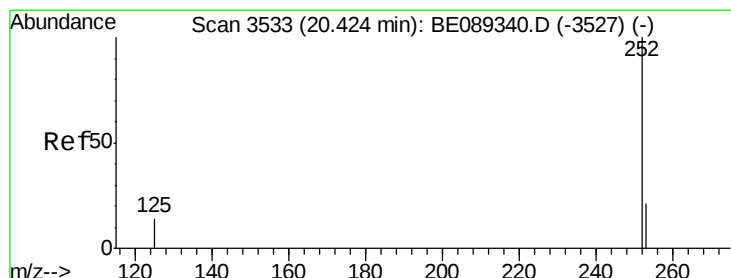
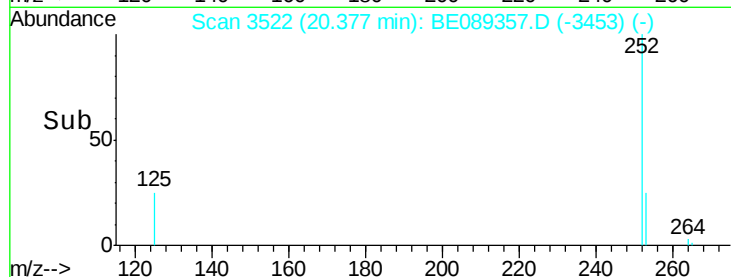
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#23

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 20.43 min Scan# 3534

Delta R.T. 0.01 min

Lab File: BE089357.D

Acq: 8 Jan 2015 10:13

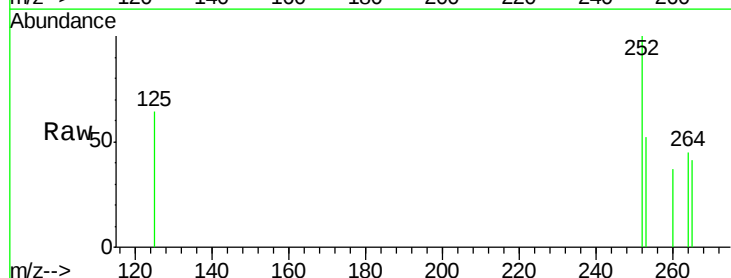
Tgt Ion:252 Resp: 219

Ion Ratio Lower Upper

252 100

253 52.1 18.0 27.0#

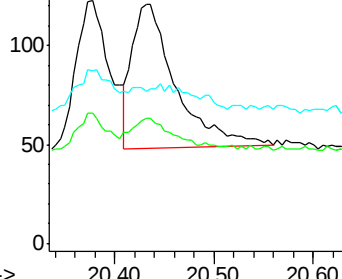
125 63.6 12.4 18.6#



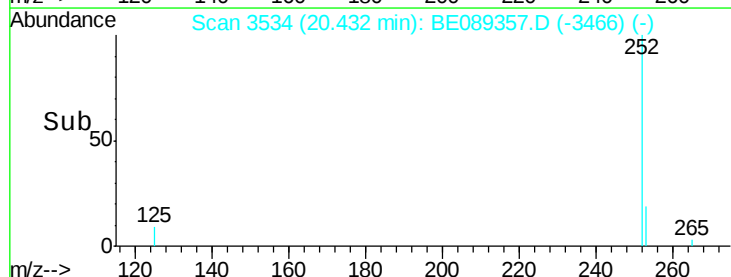
Abundance Ion 252.00 (251.70 to 252.70): E

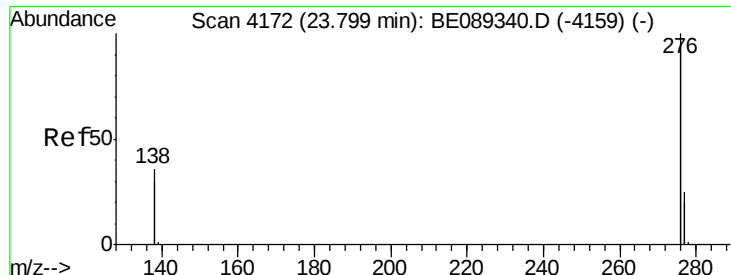
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#26

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 23.82 min Scan# 4174

Delta R.T. 0.02 min

Lab File: BE089357.D

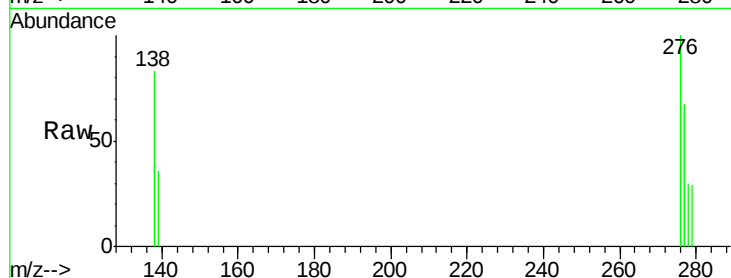
Acq: 8 Jan 2015 10:13

Instrument :

BNA_E

ClientSampleId :

MW1



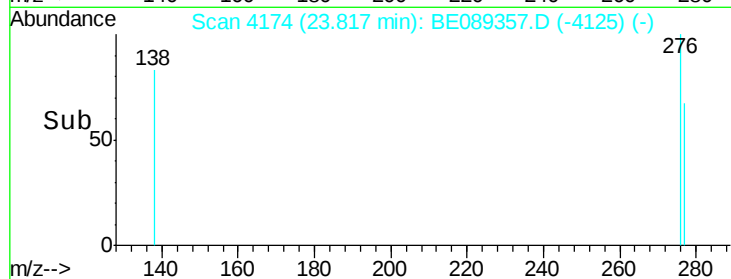
Tgt Ion: 276 Resp: 710

Ion Ratio Lower Upper

276 100

277 66.7 20.0 30.0#

138 82.7 28.5 42.7#



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

23.82

400

300

200

100

0

Time--> 23.60 23.80 24.00