

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089685.D
 Acq On : 25 Feb 2015 2:02
 Operator : TP/JJ
 Sample : PB81861BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BS

Quant Time: Feb 25 06:22:07 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	44433	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	211524	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	91103	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	137309	5.00	ng	0.00
19) Chrysene-d12	23.66	240	99902	5.00	ng	0.00
25) Perylene-d12	25.34	264	77881	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	85176	6.83	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	182163	8.99	ng	0.00
21) Terphenyl-d14	22.30	244	114504	9.77	ng	0.00

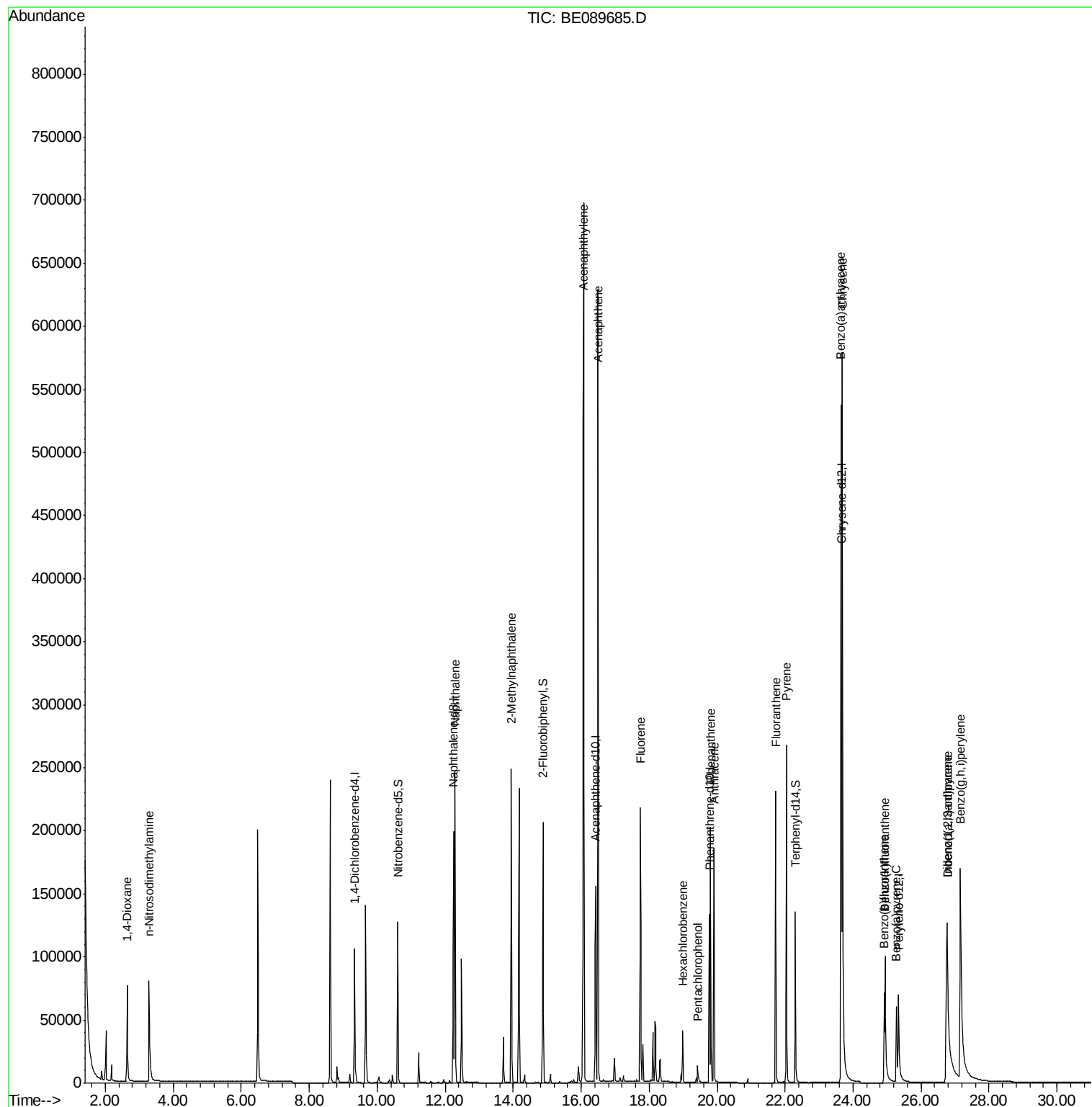
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.64	88	47208	8.48	ng	98
3) n-Nitrosodimethylamine	3.28	42	58624	7.89	ng	# 91
6) Naphthalene	12.29	128	271425	6.63	ng	99
7) 2-Methylnaphthalene	13.95	142	160611	6.91	ng	99
10) Acenaphthylene	16.07	152	893582	6.83	ng	100
11) Acenaphthene	16.50	154	130750	6.31	ng	98
12) Fluorene	17.74	166	142683	6.21	ng	100
14) Hexachlorobenzene	18.99	284	24455	6.88	ng	97
15) Pentachlorophenol	19.43	266	10697	9.84	ng	91
16) Phenanthrene	19.81	178	184773	6.31	ng	99
17) Anthracene	19.91	178	182256	7.31	ng	100
18) Fluoranthene	21.72	202	158335	6.48	ng	99
20) Pyrene	22.04	202	175727	7.28	ng	99
22) Benzo(a)anthracene	23.65	228	451857	6.88	ng	98
23) Chrysene	23.68	228	605402	6.69	ng	96
24) Indeno(1,2,3-cd)pyrene	26.76	276	351795	6.54	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	63111	5.55	ng	97
27) Benzo(k)fluoranthene	24.94	252	148703	6.64	ng	98
28) Benzo(a)pyrene	25.27	252	75892	5.72	ng	96
29) Dibenzo(a,h)anthracene	26.77	278	68368	6.35	ng	# 87
30) Benzo(g,h,i)perylene	27.17	276	355543	6.54	ng	94

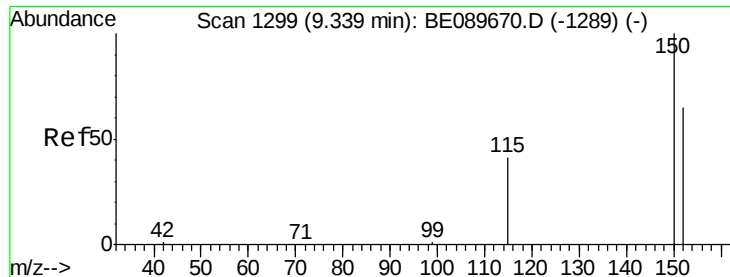
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

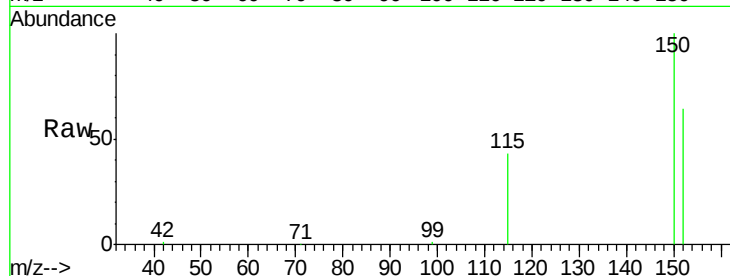
Tgt Ion: 152 Resp: 44433

Ion Ratio Lower Upper

152 100

150 155.4 123.4 185.0

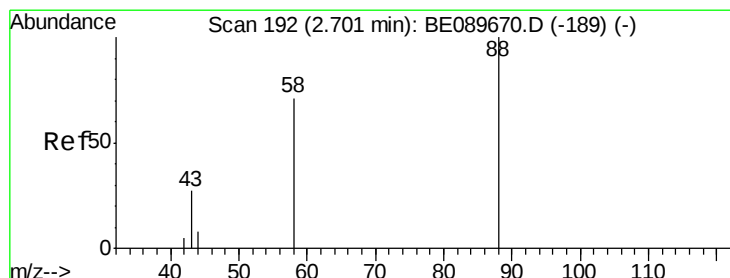
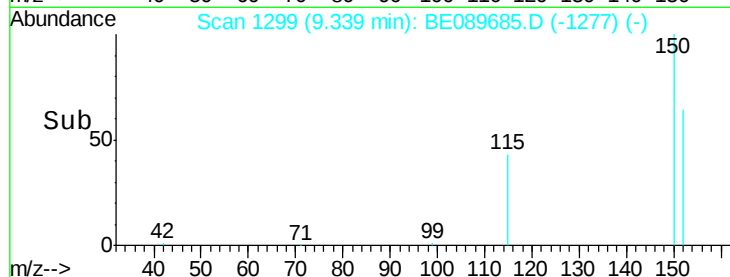
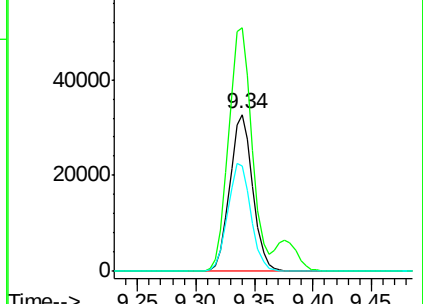
115 67.6 50.8 76.2



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: 8.48 ng

RT: 2.64 min Scan# 183

Delta R.T. -0.06 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

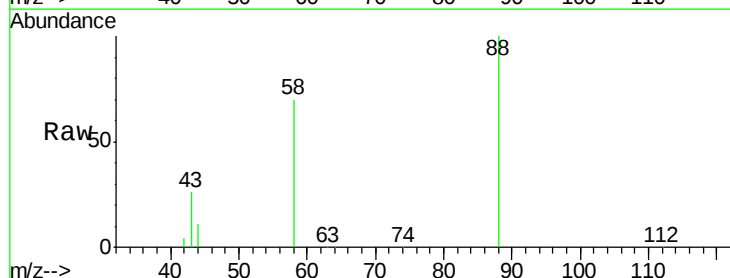
Tgt Ion: 88 Resp: 47208

Ion Ratio Lower Upper

88 100

58 80.9 62.4 93.6

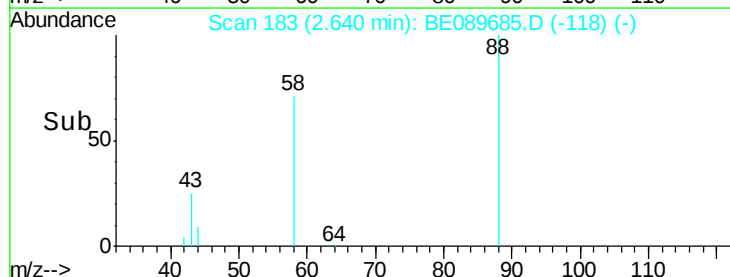
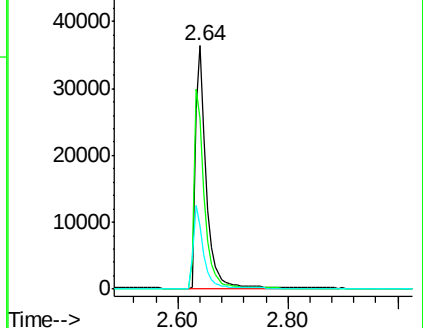
43 33.2 26.6 40.0

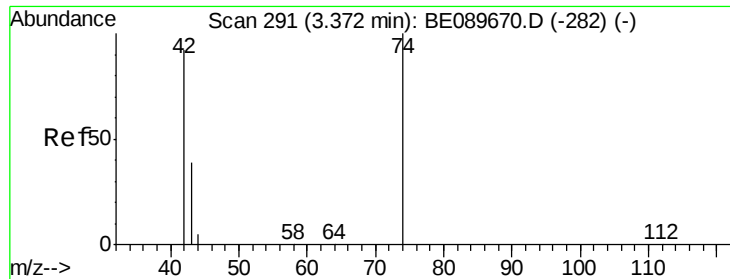


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



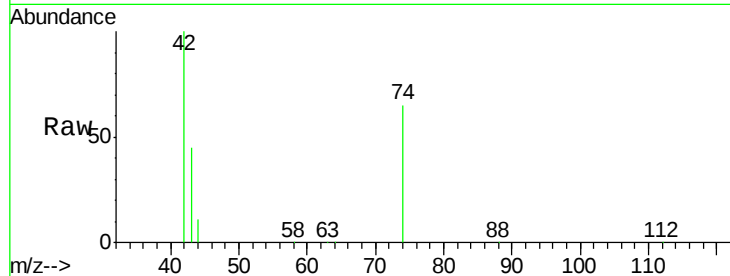


#3

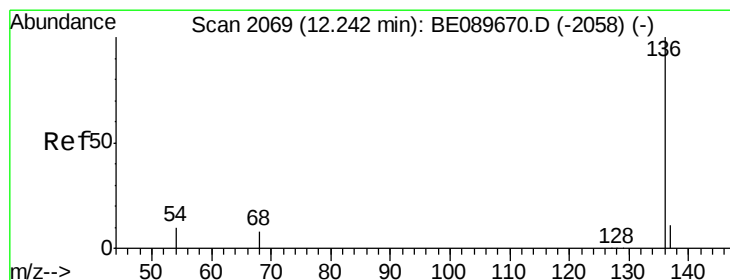
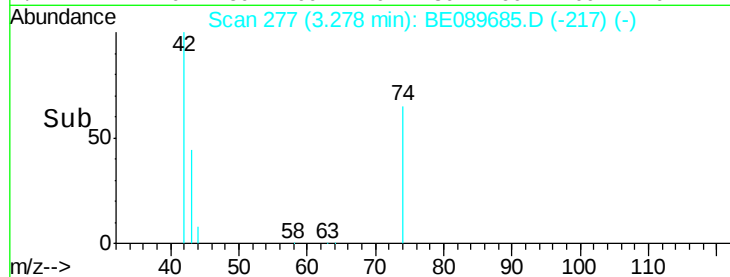
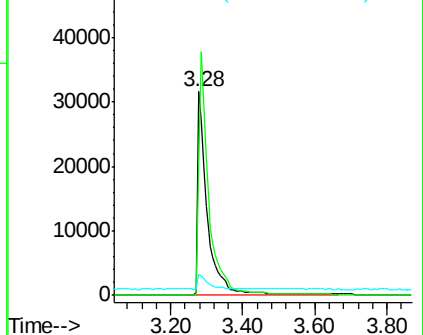
n-Nitrosodimethylamine
 Concen: 7.89 ng
 RT: 3.28 min Scan# 277
 Delta R.T. -0.09 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 2:02

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BS

Tgt Ion: 42 Resp: 58624
 Ion Ratio Lower Upper
 42 100
 74 123.4 91.1 136.7
 44 7.7 4.7 7.1#



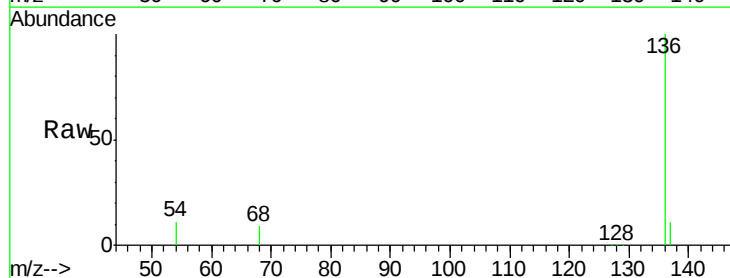
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



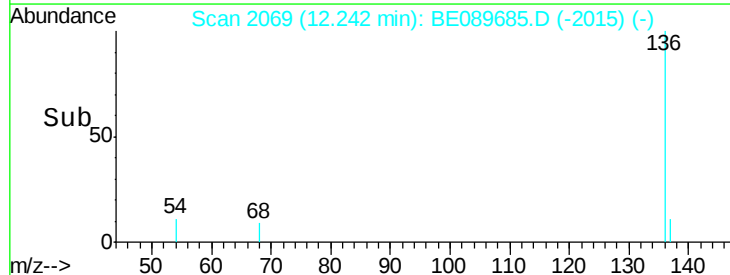
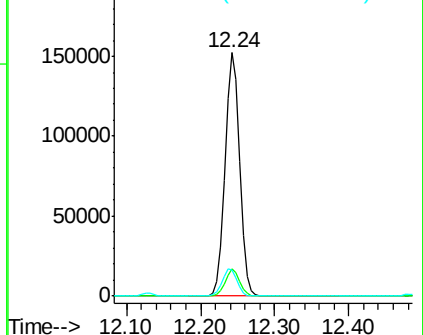
#4

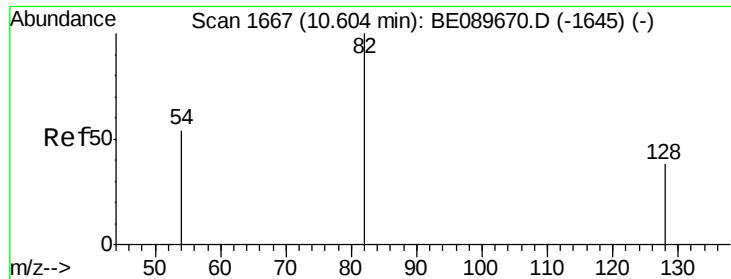
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 2:02

Tgt Ion: 136 Resp: 211524
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 10.9 7.8 11.8



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: 6.83 ng

RT: 10.61 min Scan# 1668

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

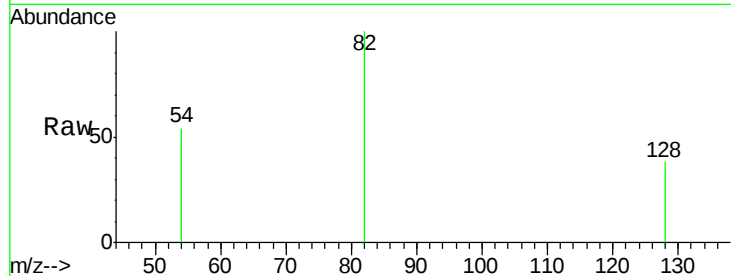
Tgt Ion: 82 Resp: 85176

Ion Ratio Lower Upper

82 100

128 38.2 30.6 46.0

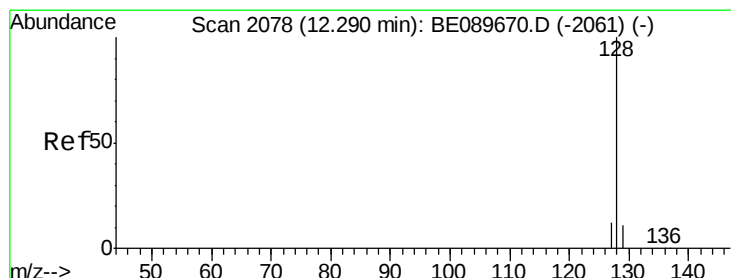
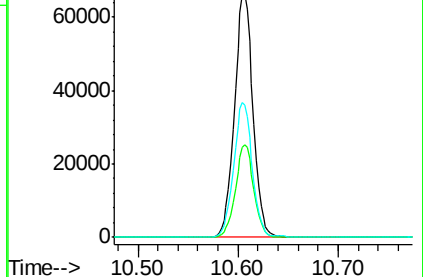
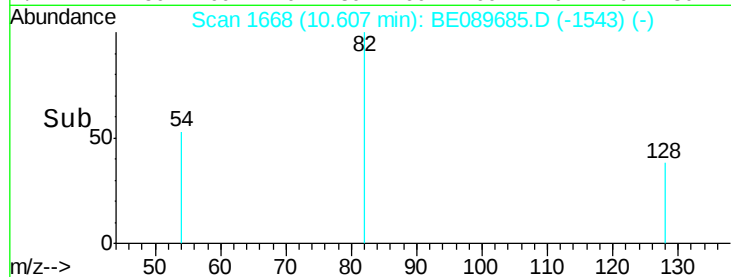
54 54.4 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE089670.D (-1645) (-)

Ion 128.00 (127.70 to 128.70): BE089670.D (-1645) (-)

Ion 54.00 (53.70 to 54.70): BE089670.D (-1645) (-)



#6

Naphthalene

Concen: 6.63 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

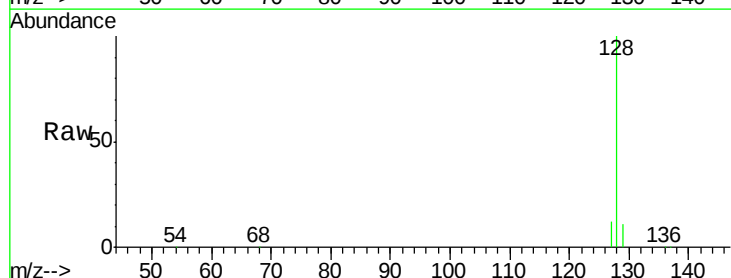
Tgt Ion: 128 Resp: 271425

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

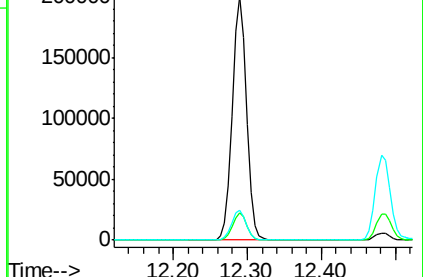
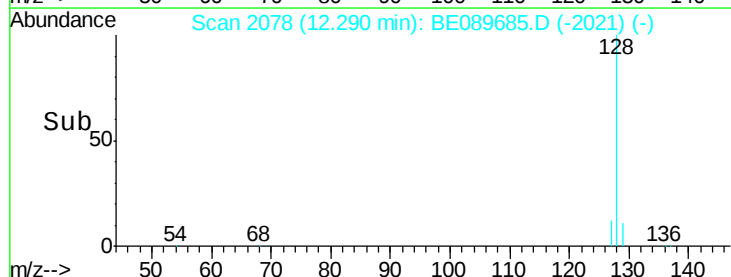
127 12.4 9.7 14.5

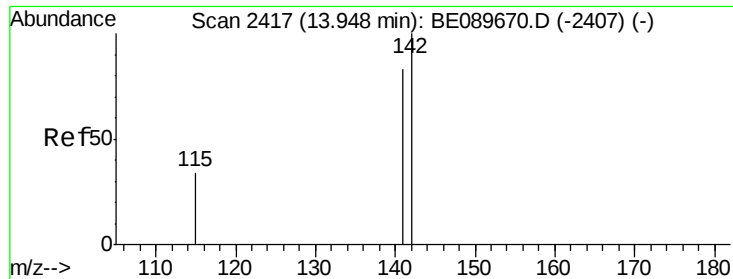


Abundance Ion 128.00 (127.70 to 128.70): BE089670.D (-2061) (-)

Ion 129.00 (128.70 to 129.70): BE089670.D (-2061) (-)

Ion 127.00 (126.70 to 127.70): BE089670.D (-2061) (-)





#7

2-Methylnaphthalene

Concen: 6.91 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

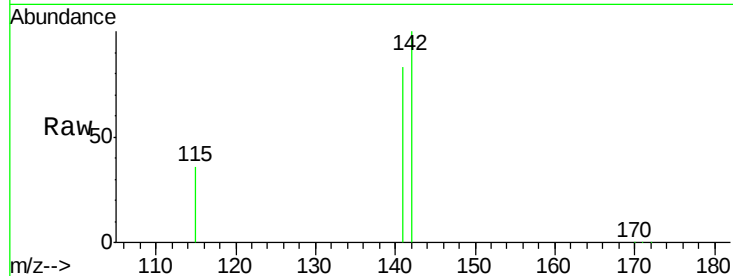
Tgt Ion:142 Resp: 160611

Ion Ratio Lower Upper

142 100

141 82.6 66.0 99.0

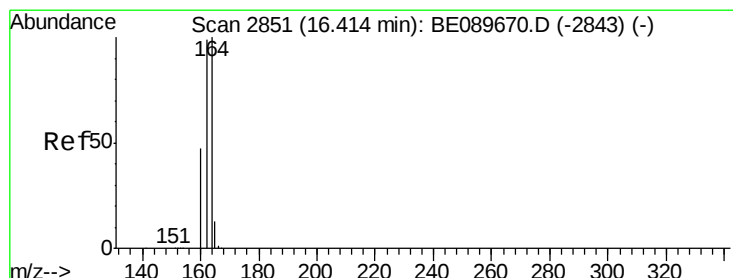
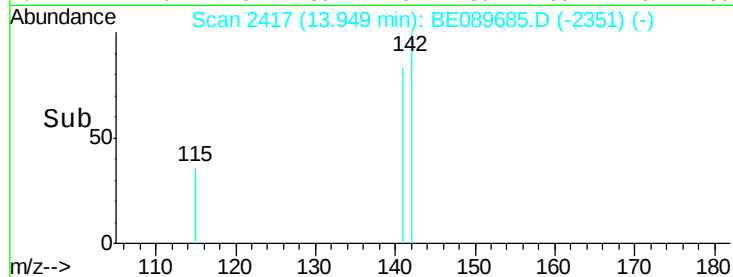
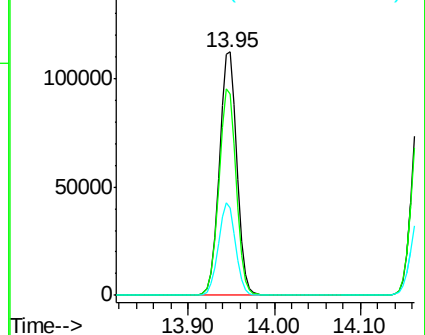
115 35.8 27.4 41.0



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# 2851

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

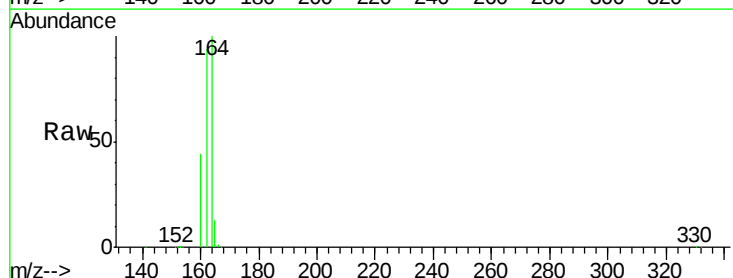
Tgt Ion:164 Resp: 91103

Ion Ratio Lower Upper

164 100

162 93.9 79.4 119.2

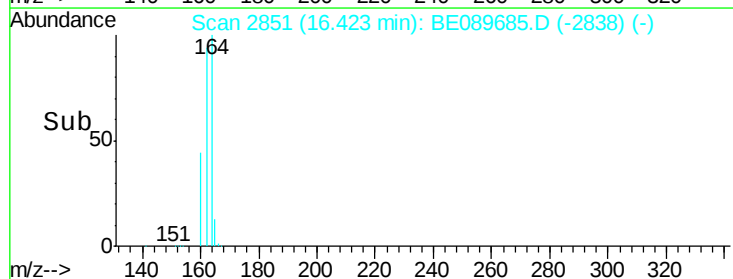
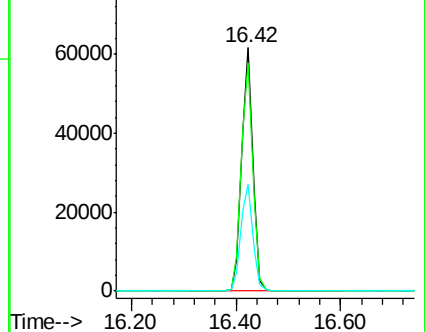
160 43.6 37.6 56.4

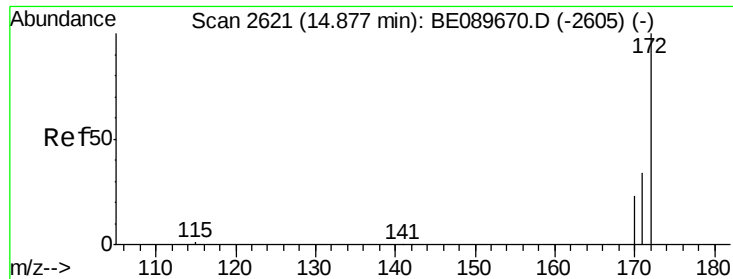


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.99 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

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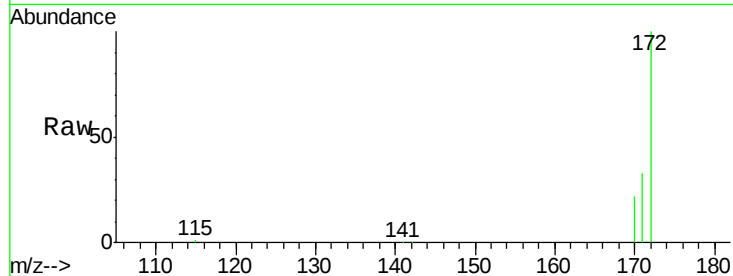
Tgt Ion:172 Resp: 182163

Ion Ratio Lower Upper

172 100

171 33.4 27.3 40.9

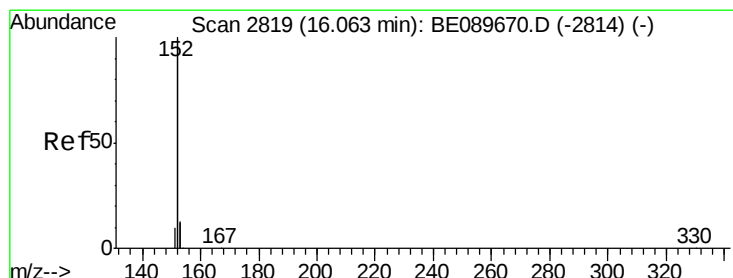
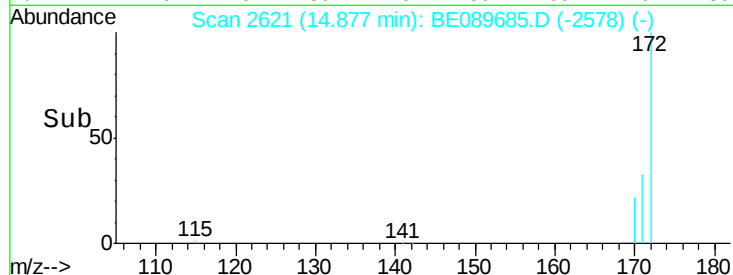
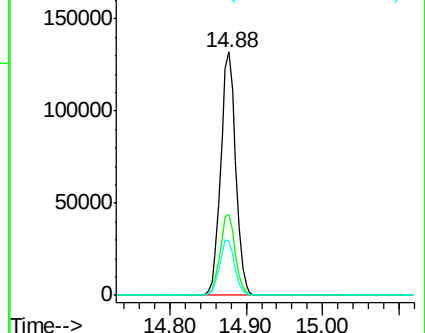
170 22.2 18.5 27.7



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: 6.83 ng

RT: 16.07 min Scan# 2819

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

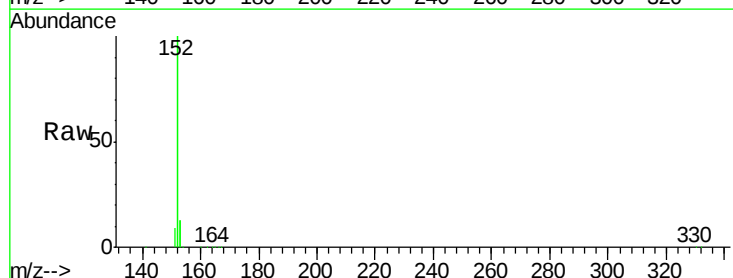
Tgt Ion:152 Resp: 893582

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

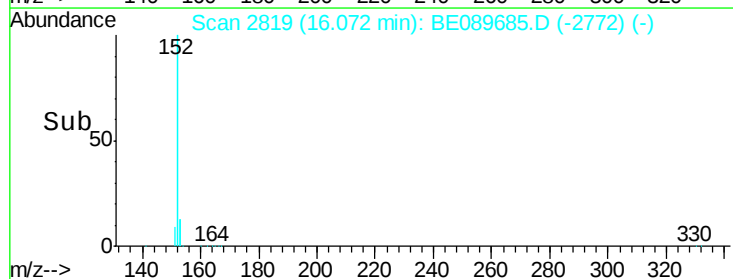
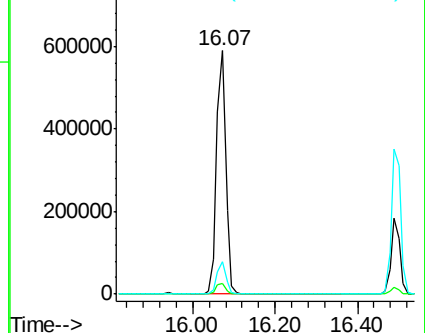
153 13.0 10.4 15.6

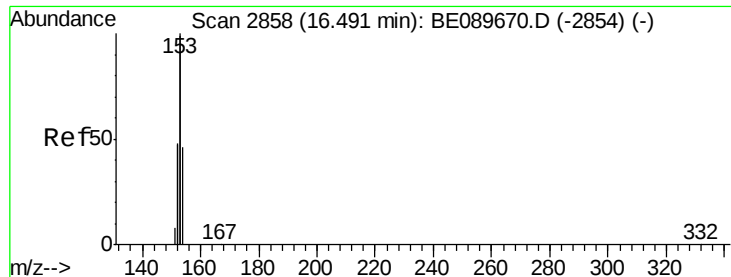


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 6.31 ng

RT: 16.50 min Scan# 2858

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

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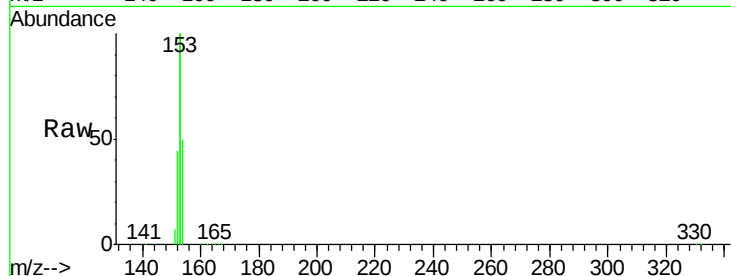
Tgt Ion:154 Resp: 130750

Ion Ratio Lower Upper

154 100

153 426.8 345.8 518.8

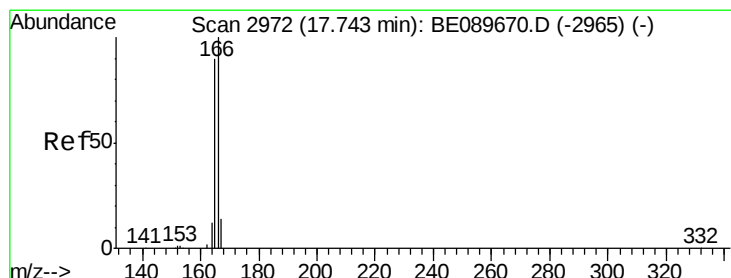
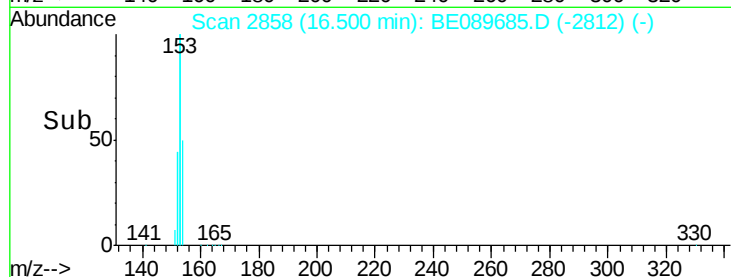
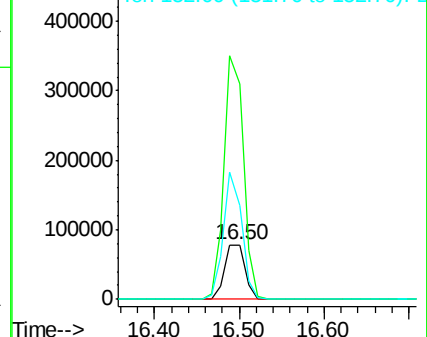
152 208.8 168.6 252.8



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: 6.21 ng

RT: 17.74 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

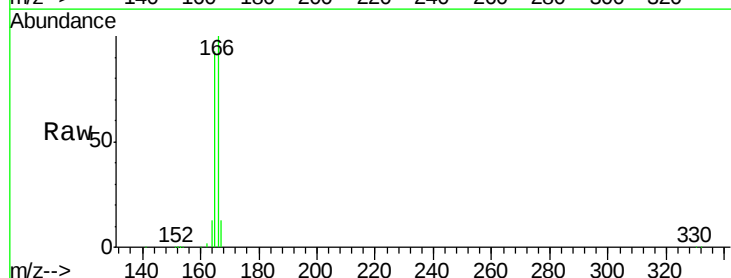
Tgt Ion:166 Resp: 142683

Ion Ratio Lower Upper

166 100

165 92.0 73.6 110.4

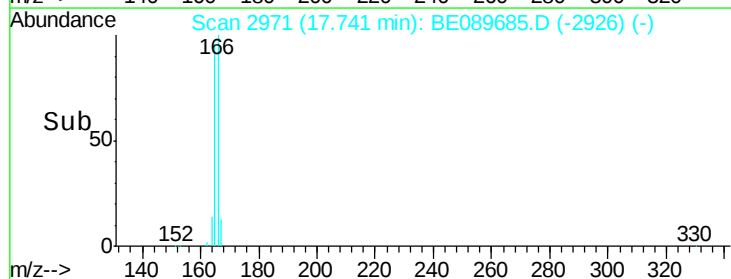
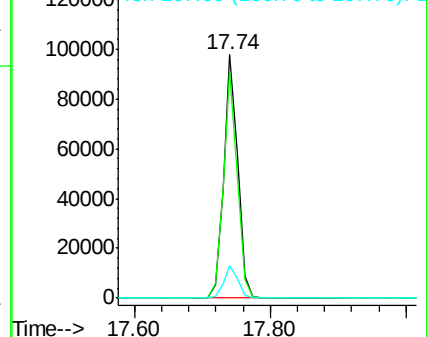
167 13.3 10.6 16.0

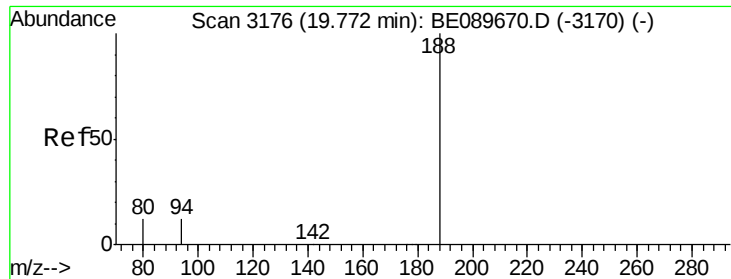


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

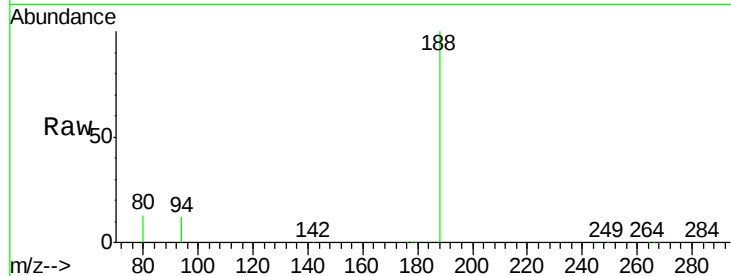




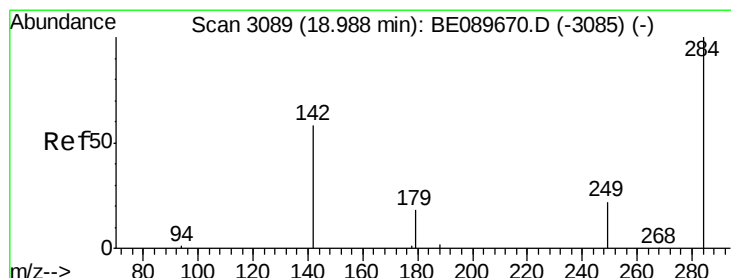
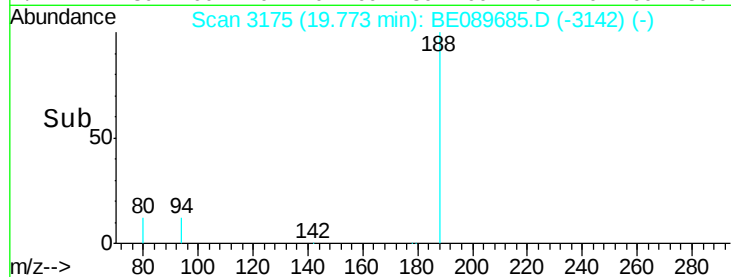
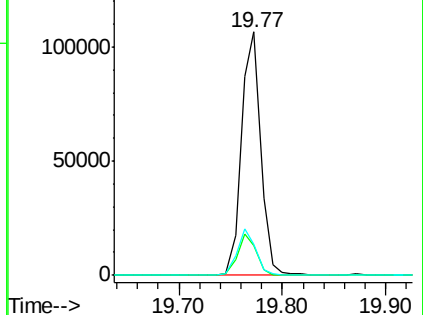
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.00 min
Lab File: BE089685.D
Acq: 25 Feb 2015 2:02

Instrument :
BNA_E
ClientSampleId :
PB81861BS

Tgt Ion:188 Resp: 137309
Ion Ratio Lower Upper
188 100
94 12.3 9.4 14.2
80 12.6 9.5 14.3

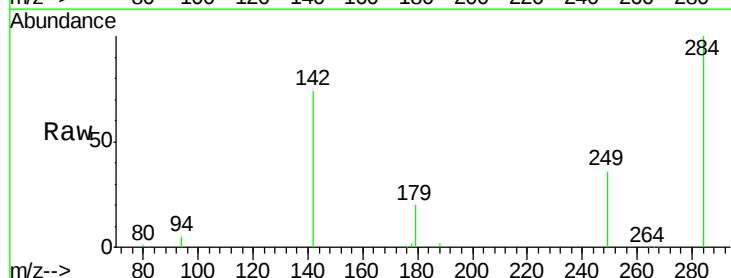


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

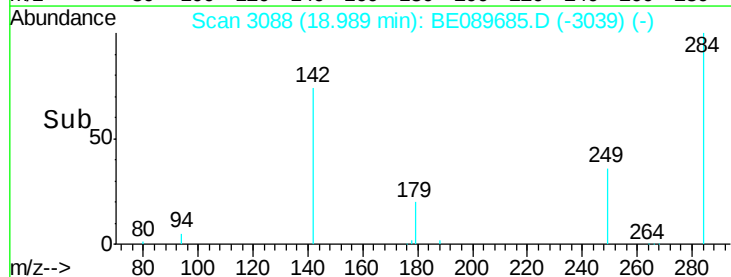
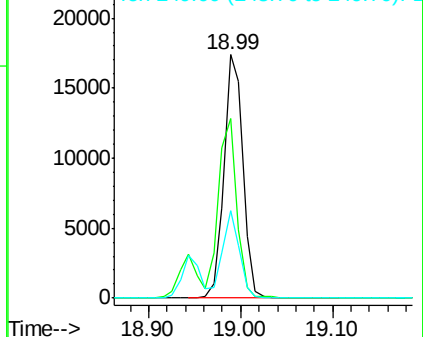


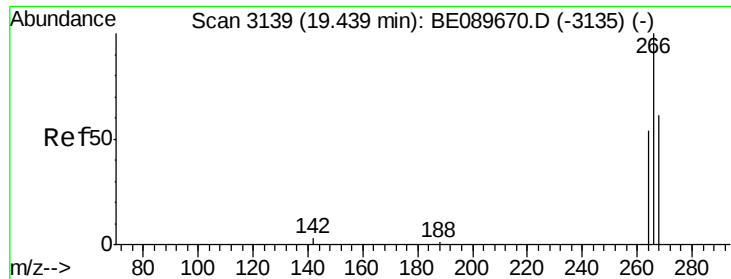
#14
Hexachlorobenzene
Concen: 6.88 ng
RT: 18.99 min Scan# 3088
Delta R.T. 0.00 min
Lab File: BE089685.D
Acq: 25 Feb 2015 2:02

Tgt Ion:284 Resp: 24455
Ion Ratio Lower Upper
284 100
142 71.4 55.4 83.2
249 32.3 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: 9.84 ng

RT: 19.43 min Scan# 3137

Delta R.T. -0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

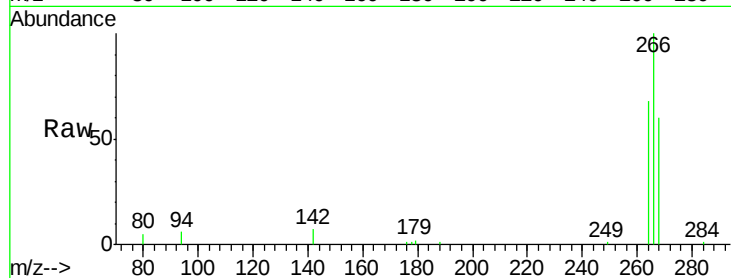
Tgt Ion:266 Resp: 10697

Ion Ratio Lower Upper

266 100

268 59.7 56.3 84.5

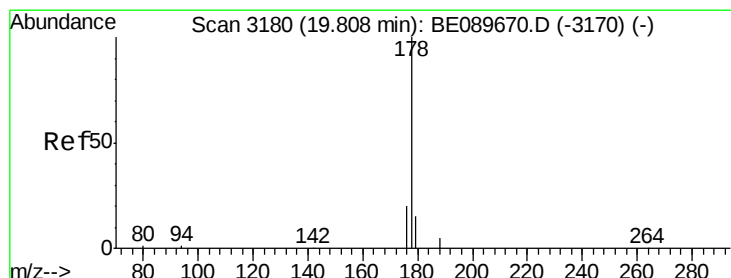
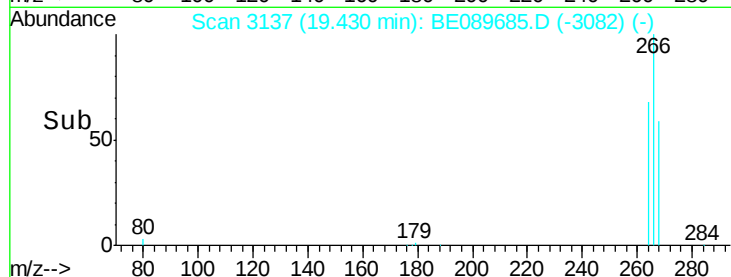
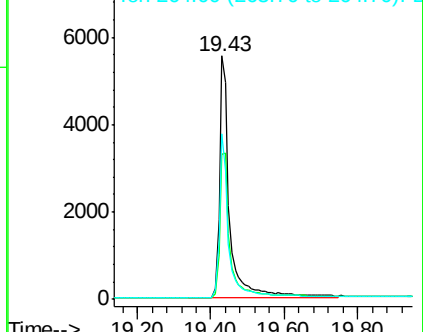
264 68.0 51.8 77.8



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#16

Phenanthrene

Concen: 6.31 ng

RT: 19.81 min Scan# 3179

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

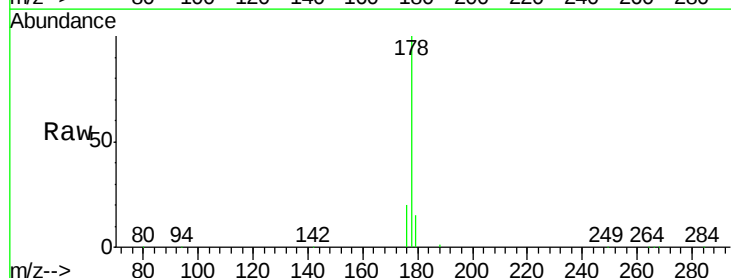
Tgt Ion:178 Resp: 184773

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

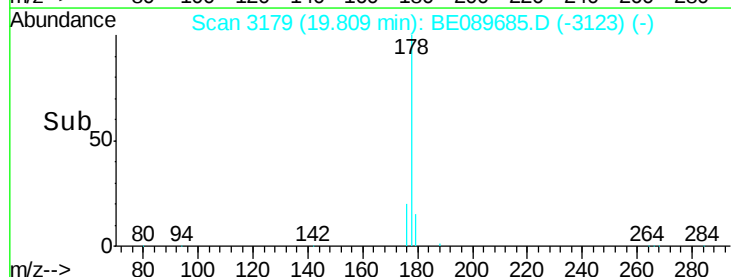
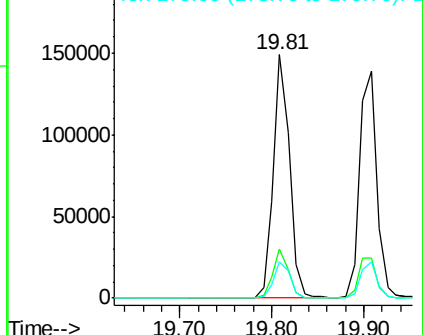
179 15.3 12.5 18.7

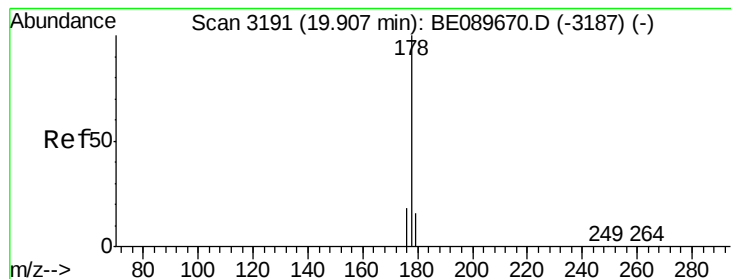


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 7.31 ng

RT: 19.91 min Scan# 3190

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

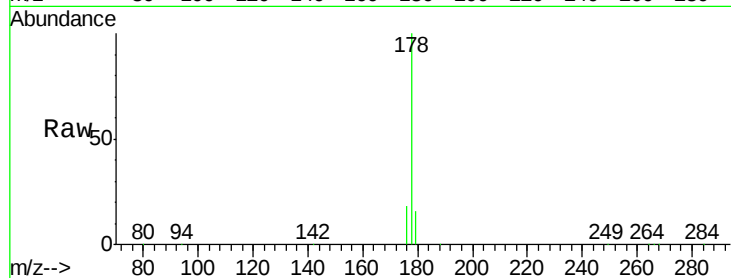
Tgt Ion:178 Resp: 182256

Ion Ratio Lower Upper

178 100

176 18.5 14.8 22.2

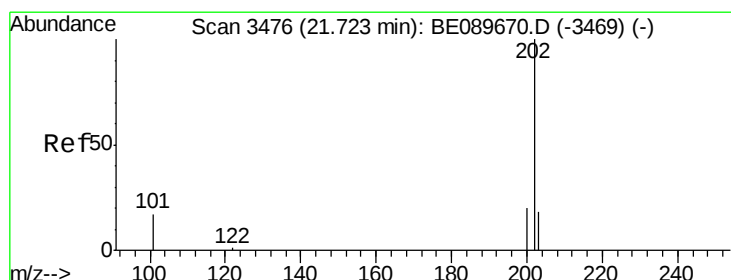
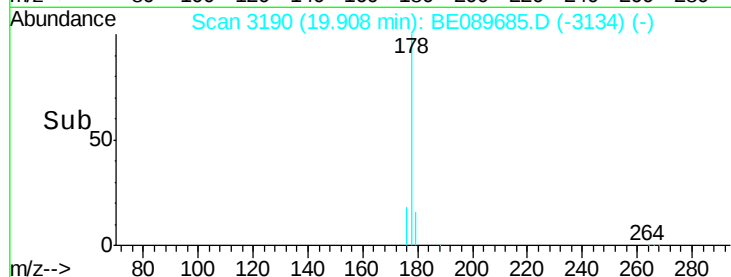
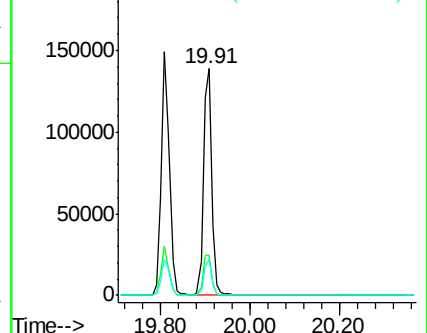
179 15.1 12.2 18.2



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: 6.48 ng

RT: 21.72 min Scan# 3474

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

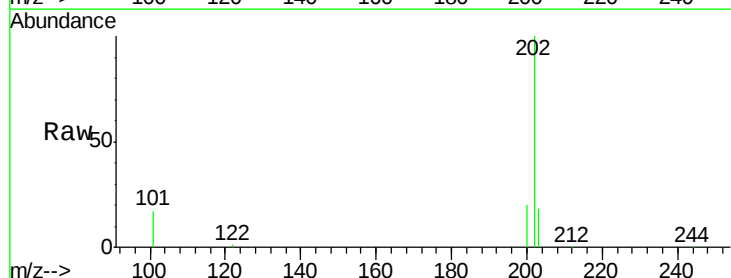
Tgt Ion:202 Resp: 158335

Ion Ratio Lower Upper

202 100

101 19.3 14.9 22.3

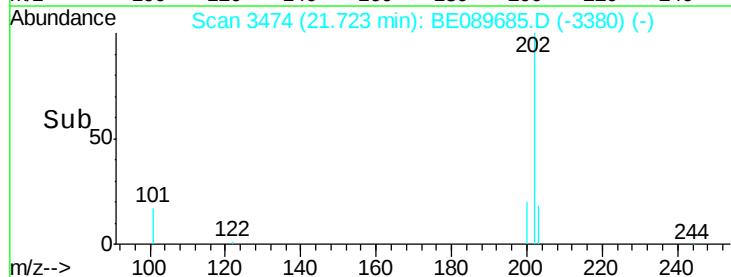
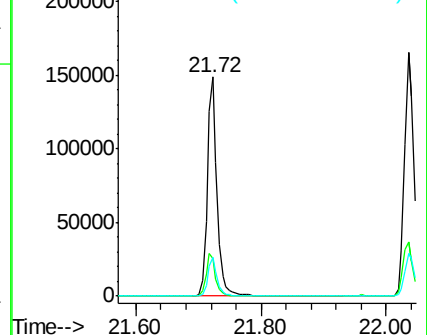
203 17.2 13.8 20.6

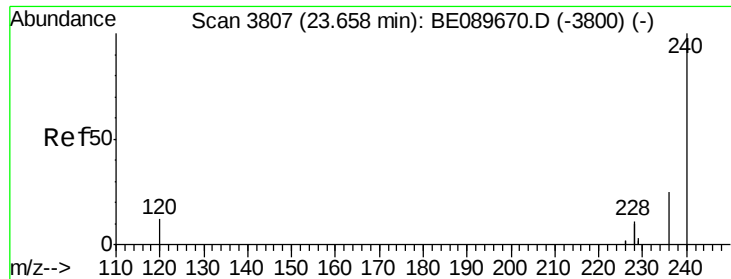


Abundance Ion 202.00 (201.70 to 202.70): E

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# 3805

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

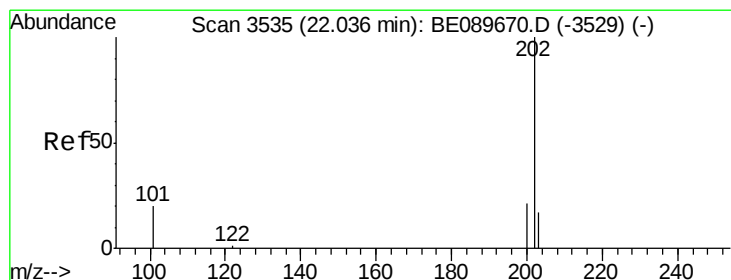
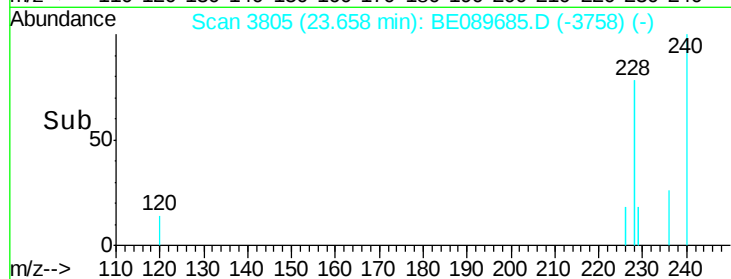
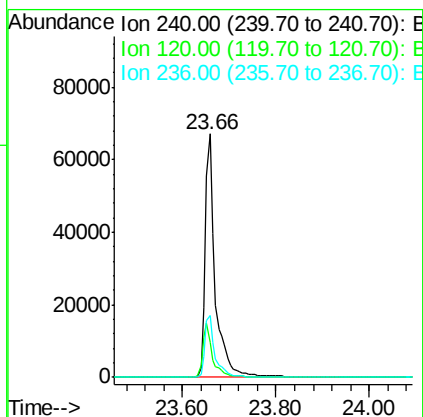
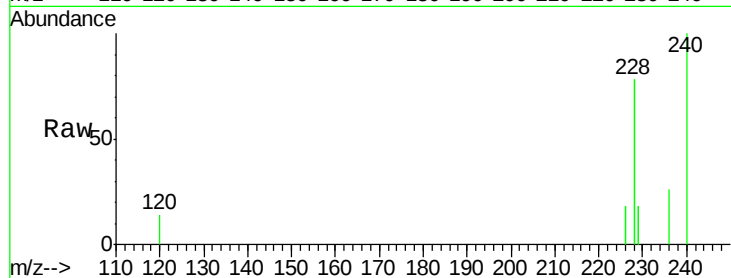
Tgt Ion:240 Resp: 99902

Ion Ratio Lower Upper

240 100

120 14.3 9.4 14.0#

236 25.7 19.9 29.9



#20

Pyrene

Concen: 7.28 ng

RT: 22.04 min Scan# 3533

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

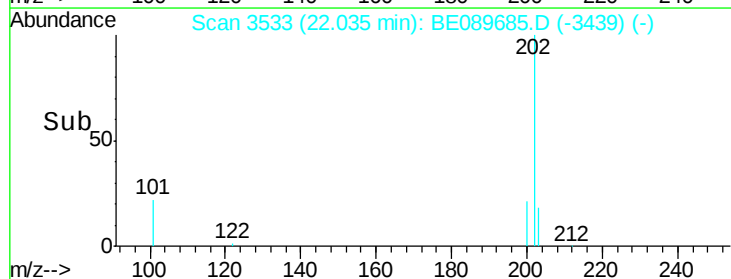
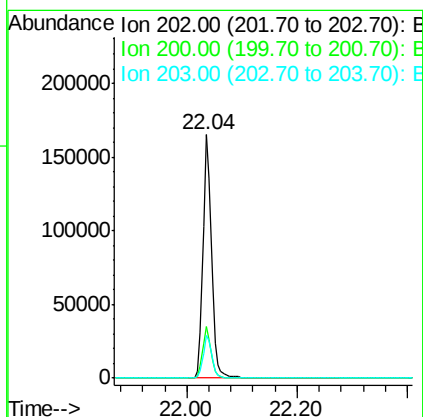
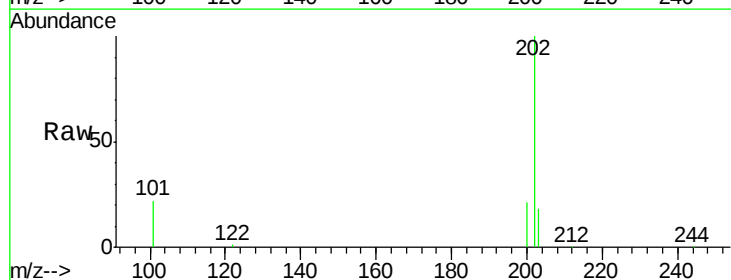
Tgt Ion:202 Resp: 175727

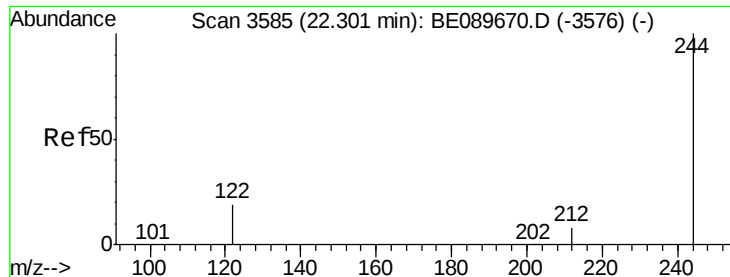
Ion Ratio Lower Upper

202 100

200 20.9 16.4 24.6

203 17.9 13.9 20.9





#21

Terphenyl-d14

Concen: 9.77 ng

RT: 22.30 min Scan# 3583

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

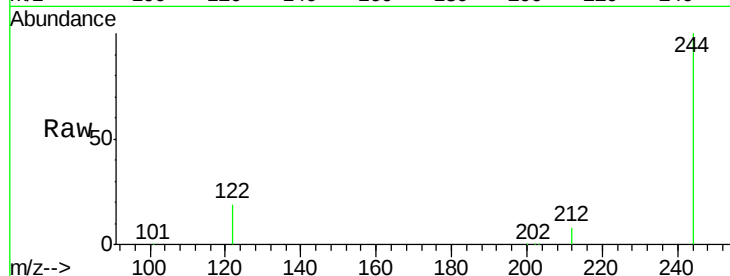
Tgt Ion:244 Resp: 114504

Ion Ratio Lower Upper

244 100

212 8.3 7.0 10.6

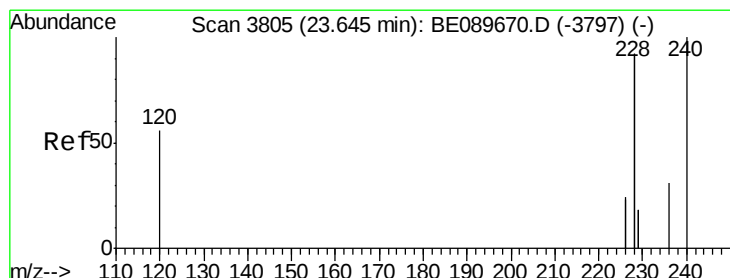
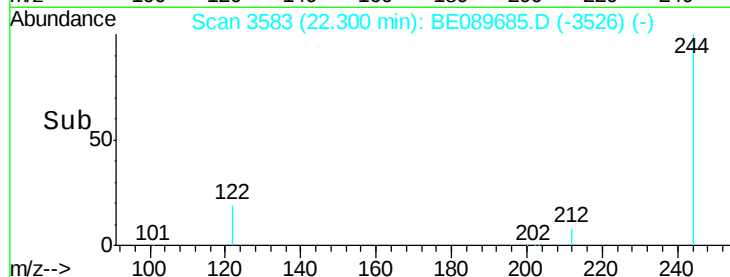
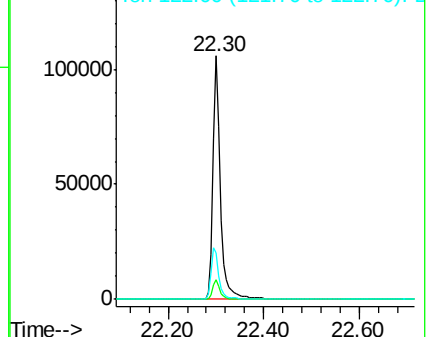
122 19.0 15.4 23.0



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: 6.88 ng

RT: 23.65 min Scan# 3803

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

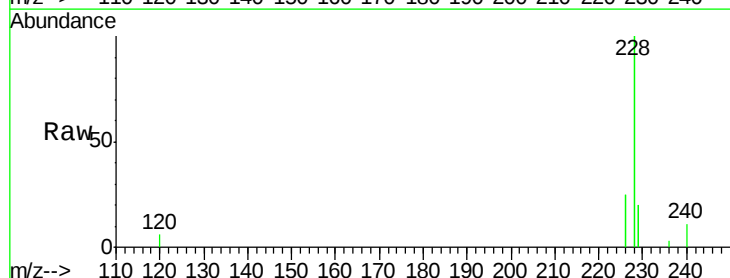
Tgt Ion:228 Resp: 451857

Ion Ratio Lower Upper

228 100

226 25.0 20.6 31.0

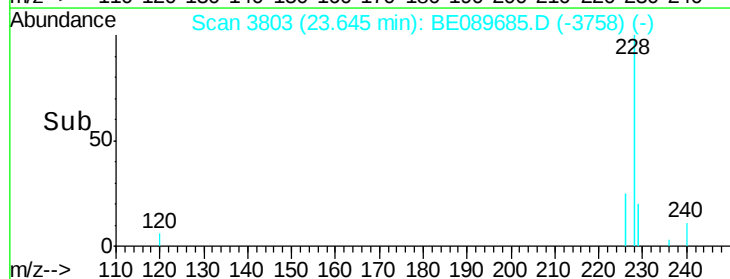
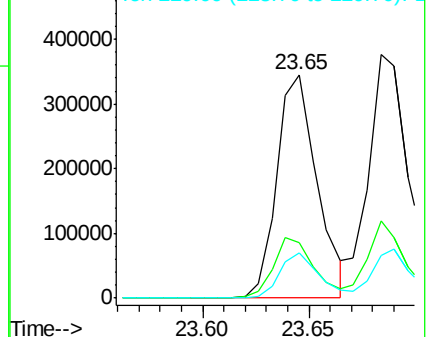
229 20.5 15.8 23.6

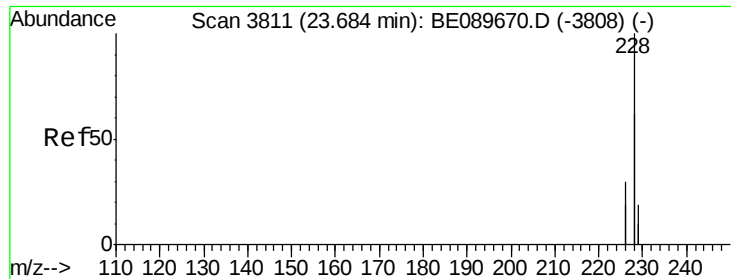


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 6.69 ng

RT: 23.68 min Scan# 3809

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

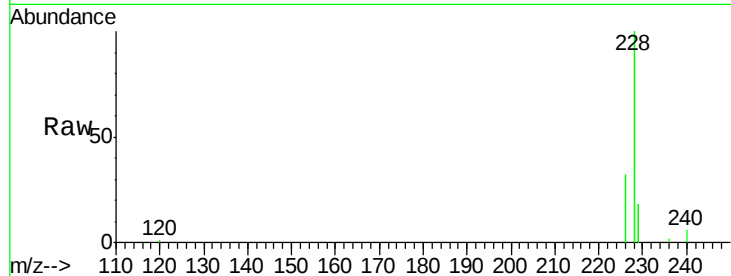
Tgt Ion:228 Resp: 605402

Ion Ratio Lower Upper

228 100

226 31.6 23.6 35.4

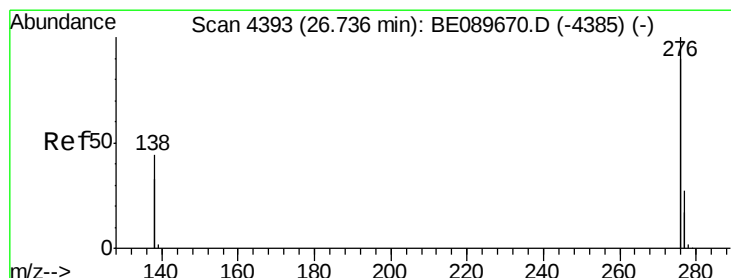
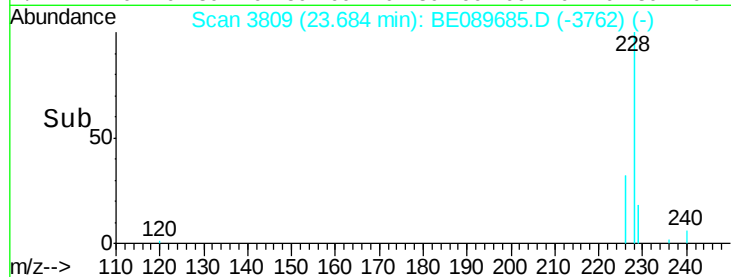
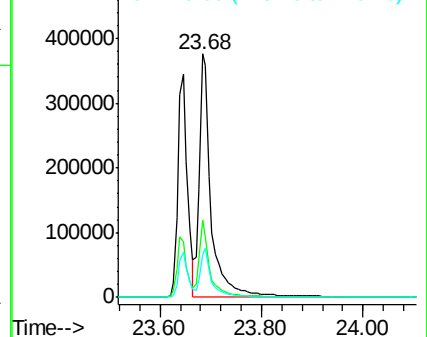
229 17.7 15.3 22.9



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: 6.54 ng

RT: 26.76 min Scan# 4395

Delta R.T. 0.03 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

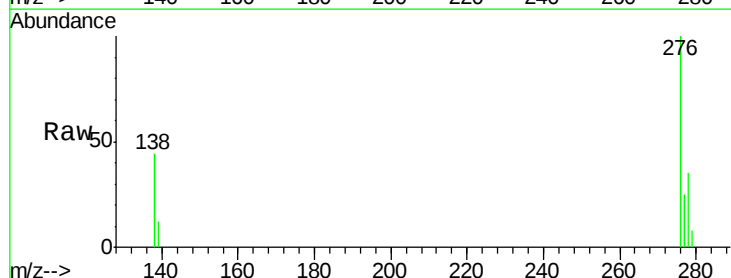
Tgt Ion:276 Resp: 351795

Ion Ratio Lower Upper

276 100

138 42.9 0.0 0.0#

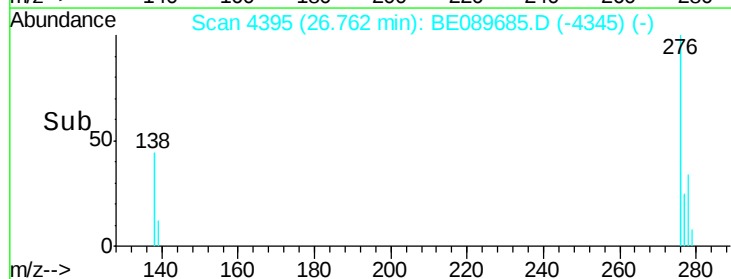
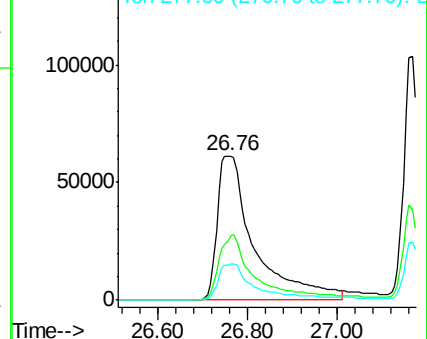
277 24.9 5.2 7.8#

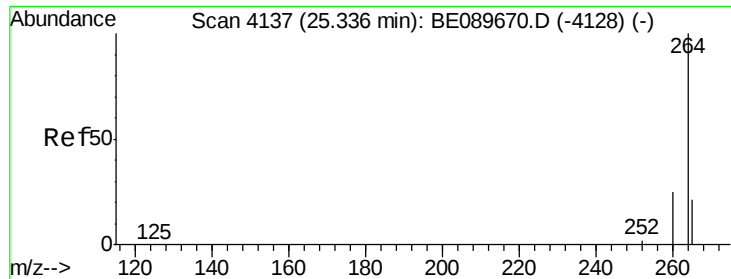


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

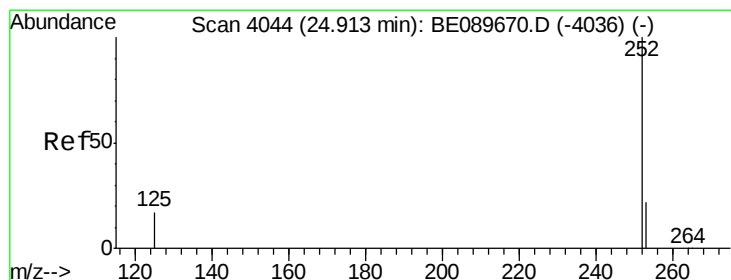
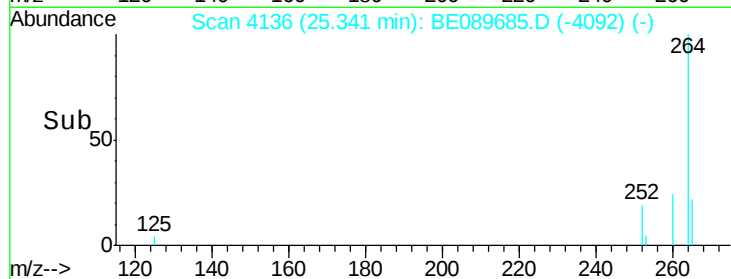
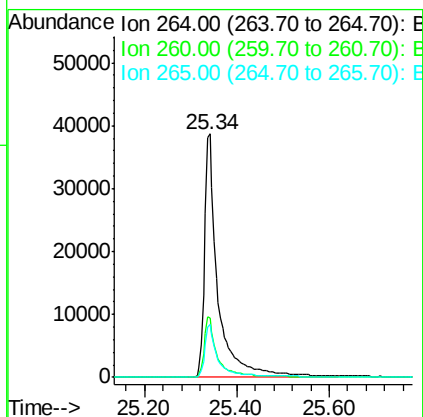
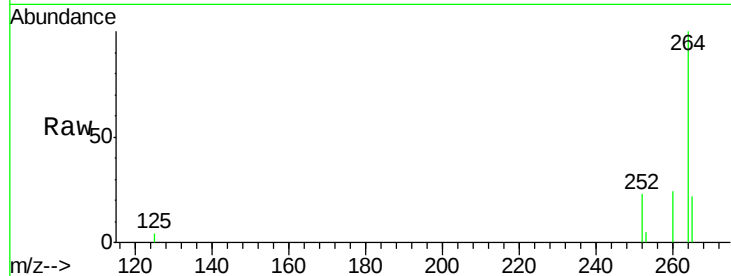




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4136
 Delta R.T. 0.00 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 2:02

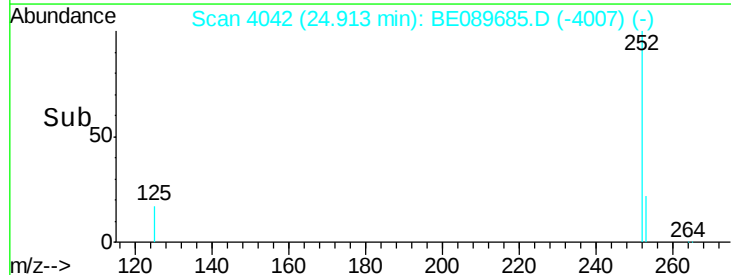
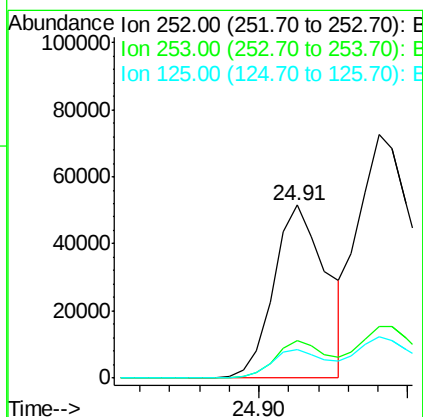
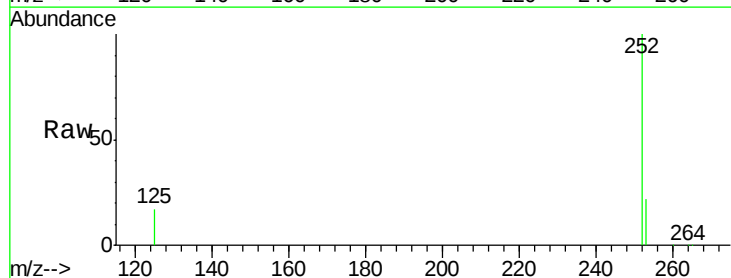
Instrument :
 BNA_E
 ClientSampleId :
 PB81861BS

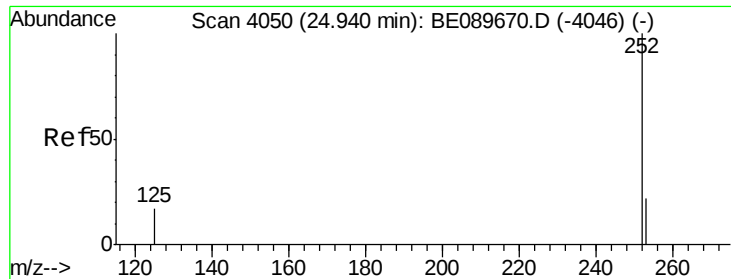
Tgt Ion: 264 Resp: 77881
 Ion Ratio Lower Upper
 264 100
 260 24.3 20.2 30.4
 265 21.8 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 5.55 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. 0.00 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 2:02

Tgt Ion: 252 Resp: 63111
 Ion Ratio Lower Upper
 252 100
 253 21.9 18.6 27.8
 125 16.8 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 6.64 ng

RT: 24.94 min Scan# 4048

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

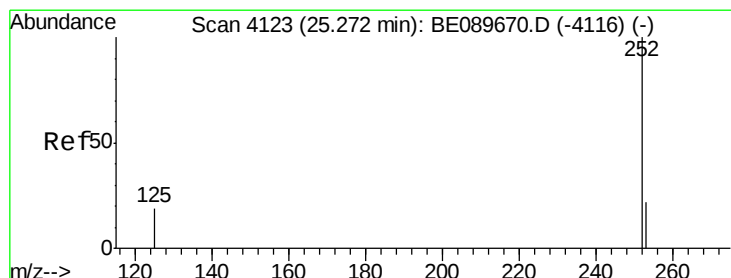
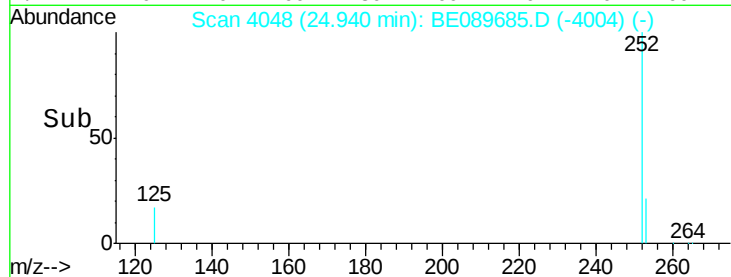
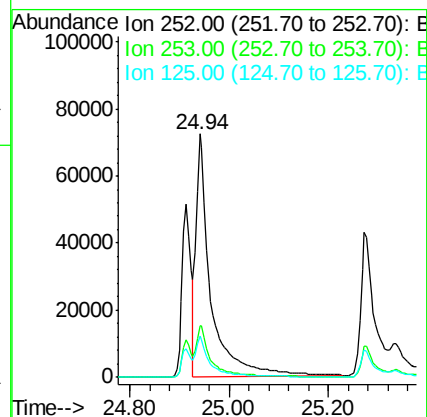
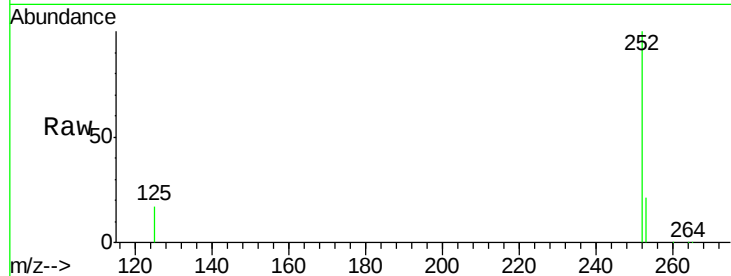
Tgt Ion:252 Resp: 148703

Ion Ratio Lower Upper

252 100

253 21.4 18.0 27.0

125 17.2 14.3 21.5



#28

Benzo(a)pyrene

Concen: 5.72 ng

RT: 25.27 min Scan# 4121

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

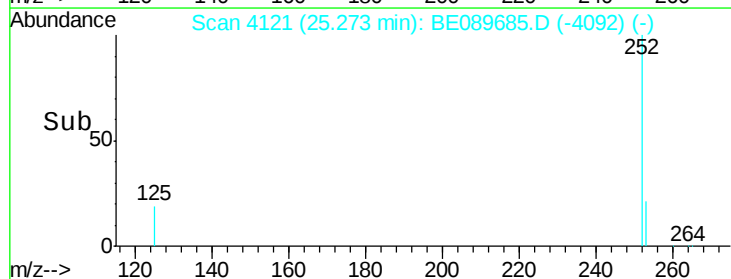
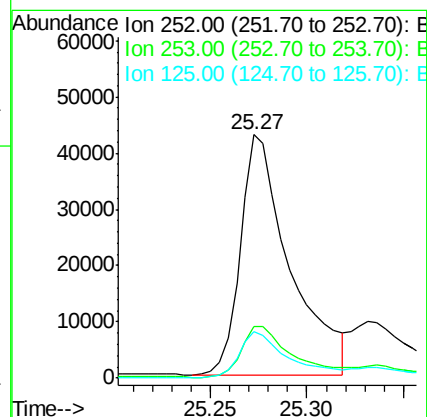
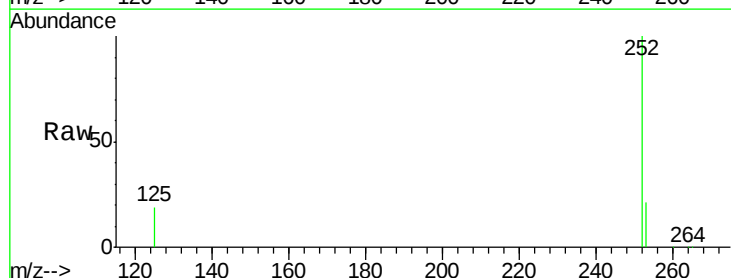
Tgt Ion:252 Resp: 75892

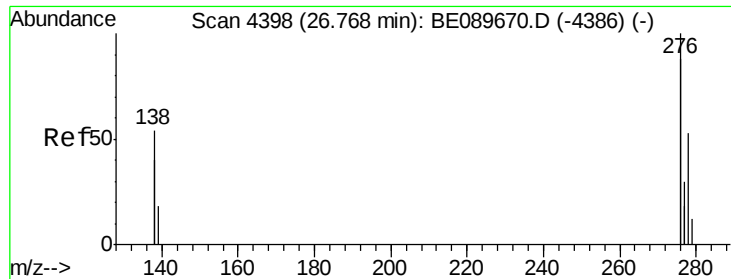
Ion Ratio Lower Upper

252 100

253 21.3 18.8 28.2

125 18.9 16.6 24.8





#29

Dibenzo(a,h)anthracene

Concen: 6.35 ng

RT: 26.77 min Scan# 4397

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

Instrument :

BNA_E

ClientSampleId :

PB81861BS

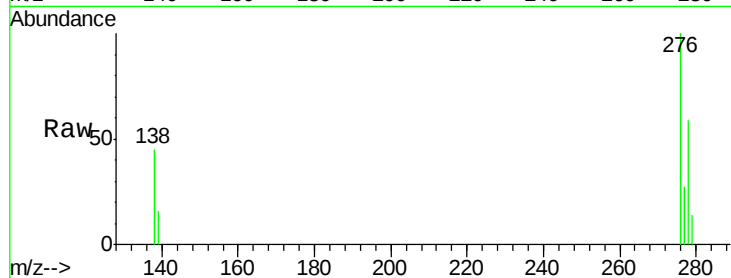
Tgt Ion:278 Resp: 68368

Ion Ratio Lower Upper

278 100

139 27.7 30.4 45.6#

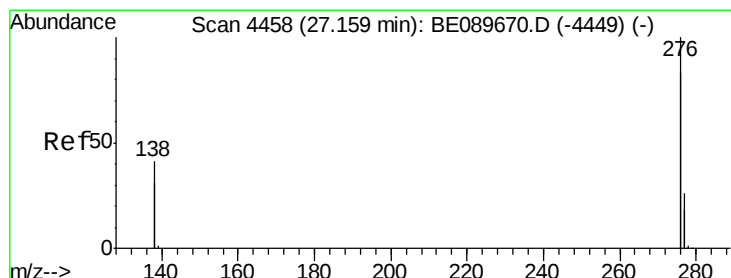
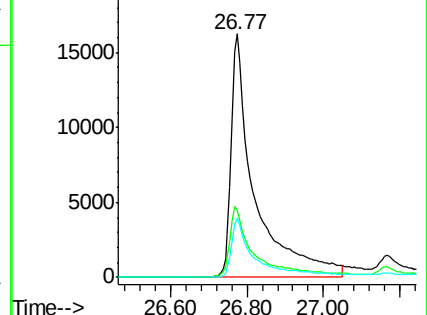
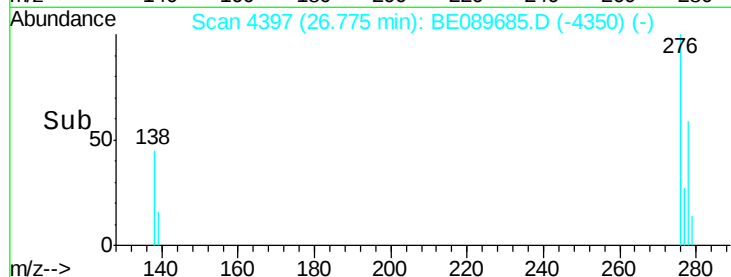
279 24.1 22.0 33.0



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



#30

Benzo(g,h,i)perylene

Concen: 6.54 ng

RT: 27.17 min Scan# 4457

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 2:02

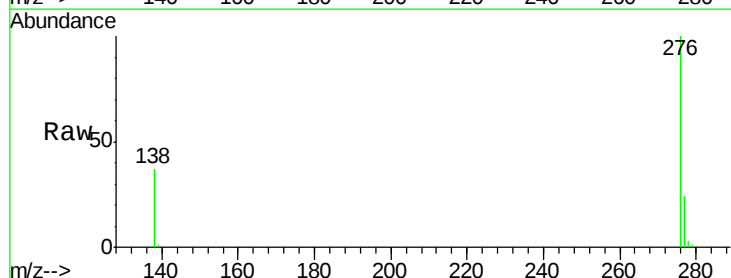
Tgt Ion:276 Resp: 355543

Ion Ratio Lower Upper

276 100

277 24.1 21.0 31.6

138 36.7 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

