

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021715\
 Data File : BE089589.D
 Acq On : 17 Feb 2015 4:56
 Operator : TP/IZ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 17 10:55:21 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 17 10:44:47 2015
 Response via : Initial Calibration

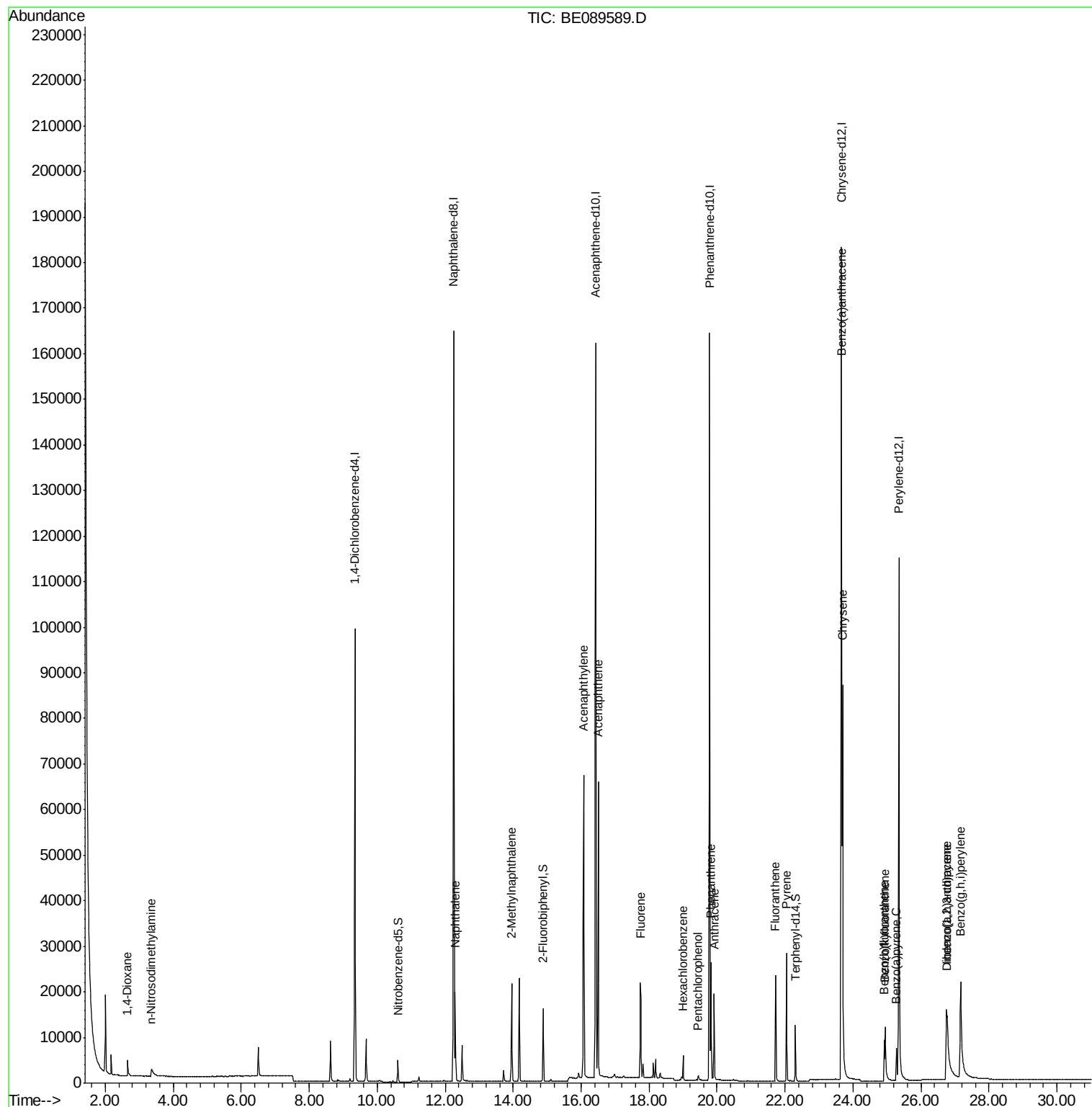
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	42401	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	182709	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	93982	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	162574	5.00	ng	0.00
19) Chrysene-d12	23.66	240	132446	5.00	ng	0.00
25) Perylene-d12	25.34	264	113473	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	3577	0.43	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	14016	0.47	ng	0.00
21) Terphenyl-d14	22.31	244	11869	0.48	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.65	88	2695	0.47	ng	93
3) n-Nitrosodimethylamine	3.36	42	2639	0.46	ng	# 91
6) Naphthalene	12.30	128	22013	0.48	ng	100
7) 2-Methylnaphthalene	13.95	142	13759	0.47	ng	100
10) Acenaphthylene	16.07	152	81133	0.45	ng	100
11) Acenaphthene	16.50	154	13884	0.47	ng	99
12) Fluorene	17.74	166	15439	0.47	ng	100
14) Hexachlorobenzene	19.00	284	4205	0.46	ng	100
15) Pentachlorophenol	19.44	266	891	0.33	ng	97
16) Phenanthrene	19.82	178	23373	0.48	ng	100
17) Anthracene	19.91	178	18203	0.45	ng	100
18) Fluoranthene	21.73	202	18390	0.45	ng	100
20) Pyrene	22.04	202	19823	0.47	ng	100
22) Benzo(a)anthracene	23.65	228	61855	0.45	ng	99
23) Chrysene	23.69	228	77612	0.48	ng	98
24) Indeno(1,2,3-cd)pyrene	26.75	276	49778	0.42	ng	# 81
26) Benzo(b)fluoranthene	24.92	252	9419	0.41	ng	98
27) Benzo(k)fluoranthene	24.94	252	18202	0.48	ng	99
28) Benzo(a)pyrene	25.28	252	9085	0.41	ng	99
29) Dibenzo(a,h)anthracene	26.77	278	9554	0.42	ng	99
30) Benzo(g,h,i)perylene	27.17	276	49370	0.44	ng	99

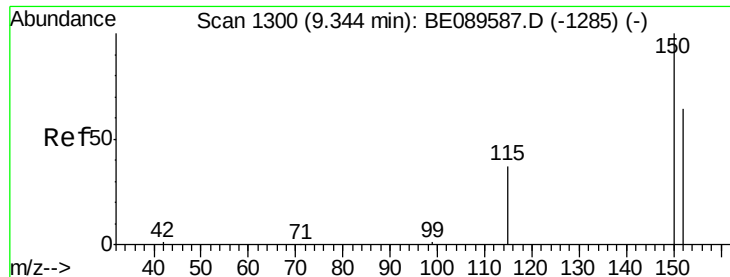
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

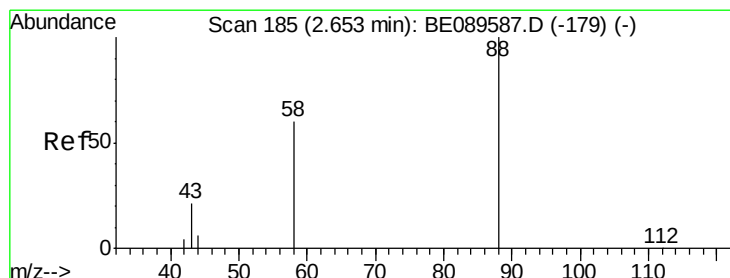
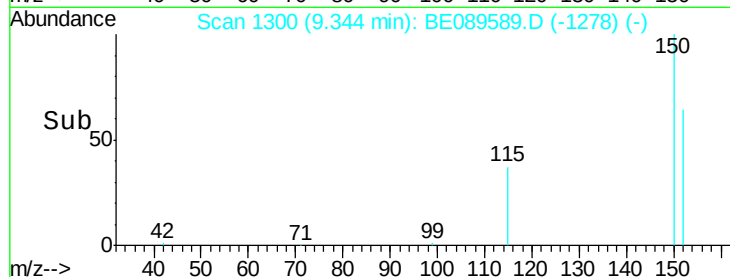
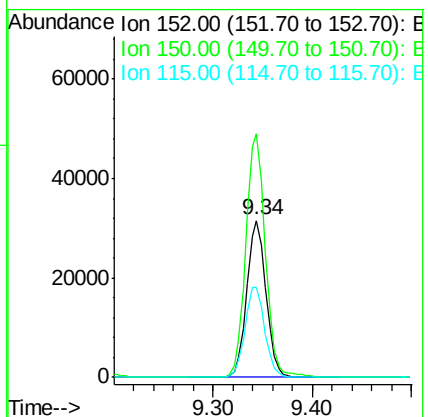
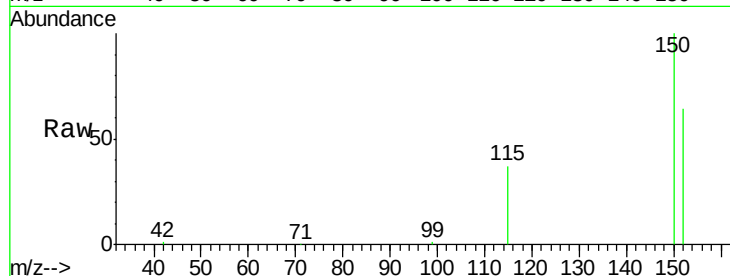
Tot Ion:152 Resp: 42401

Ion Ratio Lower Upper

152 100

150 155.4 125.3 187.9

115 57.7 47.0 70.4



#2

1,4-Dioxane

Concen: 0.47 ng

RT: 2.65 min Scan# 185

Delta R.T. -0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

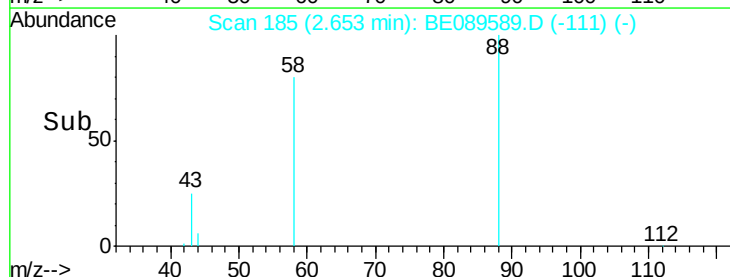
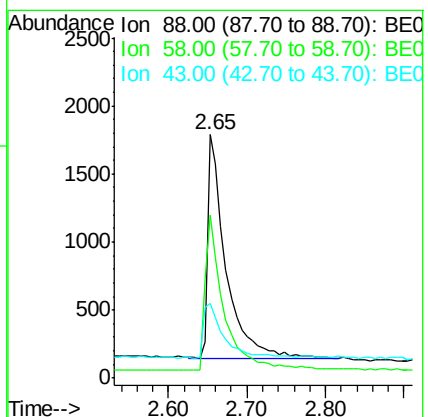
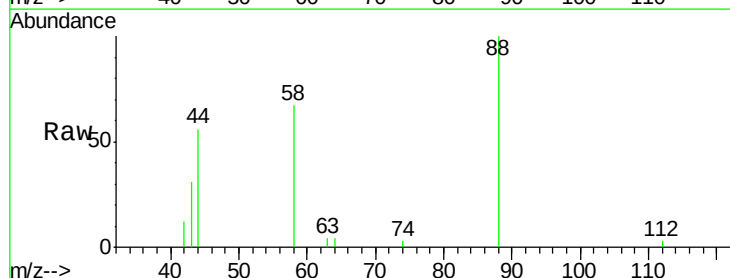
Tgt Ion: 88 Resp: 2695

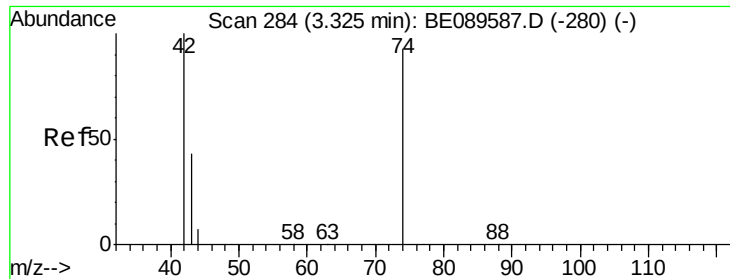
Ion Ratio Lower Upper

88 100

58 72.2 53.0 79.4

43 27.2 19.9 29.9



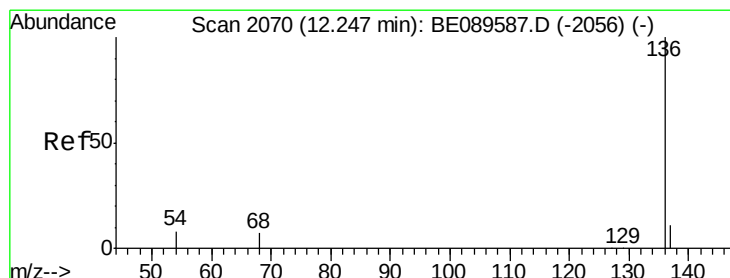
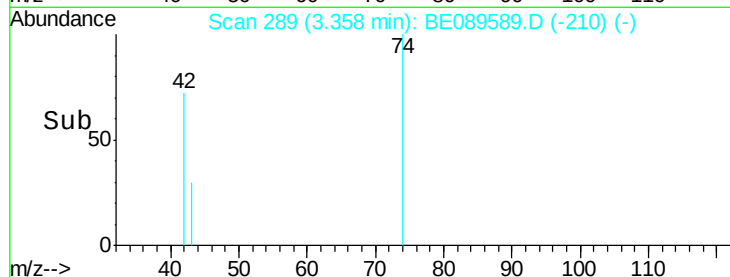
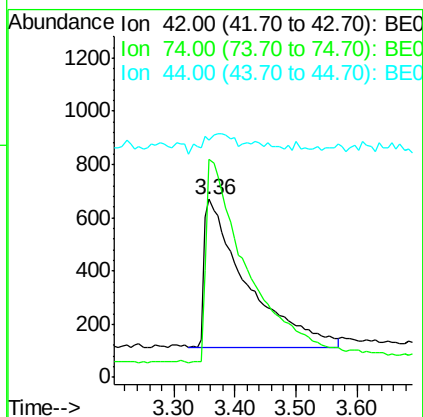
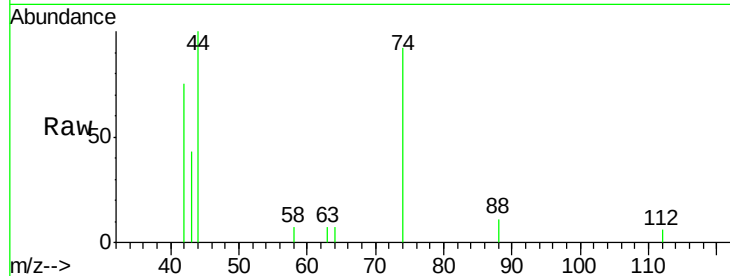


#3

n-Nitrosodimethylamine
 Concen: 0.46 ng
 RT: 3.36 min Scan# 289
 Delta R.T. 0.03 min
 Lab File: BE089589.D
 Acq: 17 Feb 2015 4:56

Instrument :
 BNA_E
 ClientSampleId :

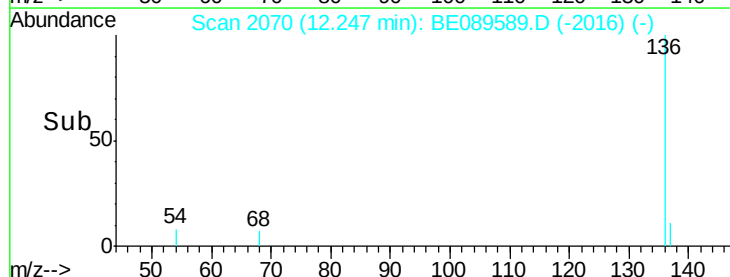
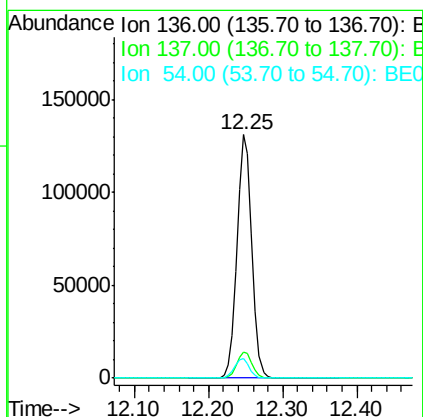
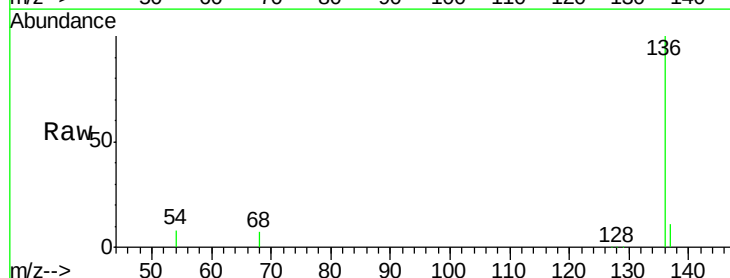
Tot Ion: 42 Resp: 2639
 Ion Ratio Lower Upper
 42 100
 74 154.3 114.2 171.4
 44 0.0 3.6 5.4#

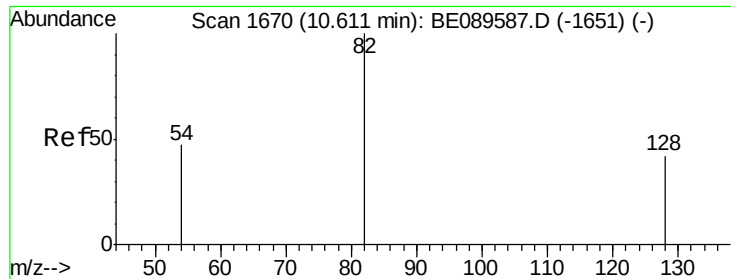


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: BE089589.D
 Acq: 17 Feb 2015 4:56

Tgt Ion: 136 Resp: 182709
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 7.9 6.2 9.2





#5

Nitrobenzene-d5

Concen: 0.43 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

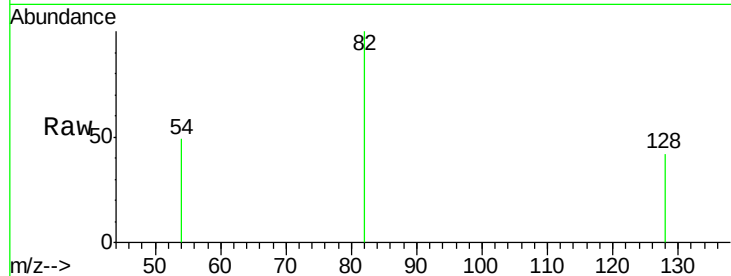
Tot Ion: 82 Resp: 3577

Ion Ratio Lower Upper

82 100

128 41.5 34.2 51.2

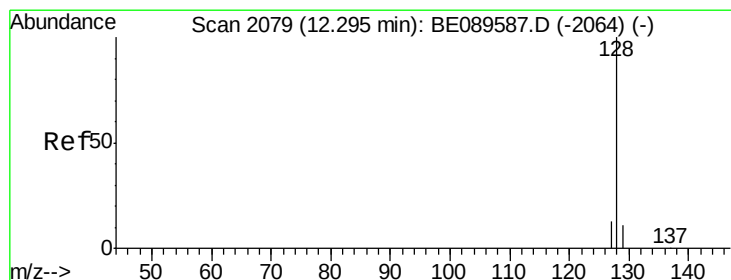
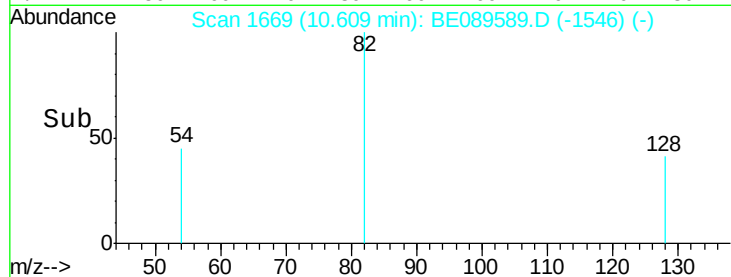
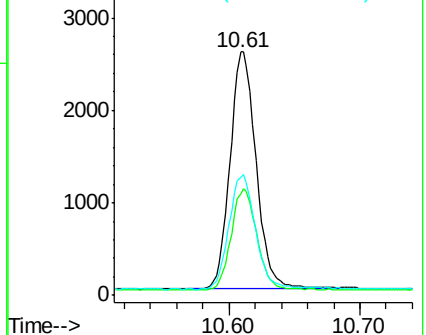
54 48.7 38.4 57.6



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: 0.48 ng

RT: 12.30 min Scan# 2079

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

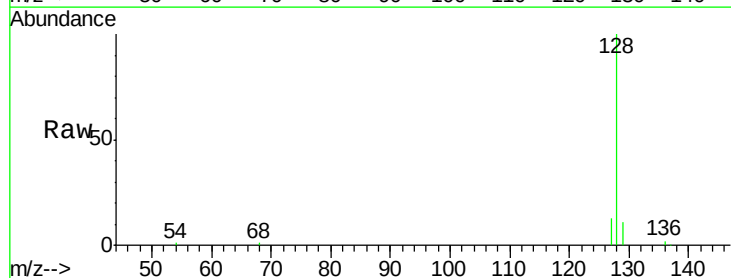
Tgt Ion: 128 Resp: 22013

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

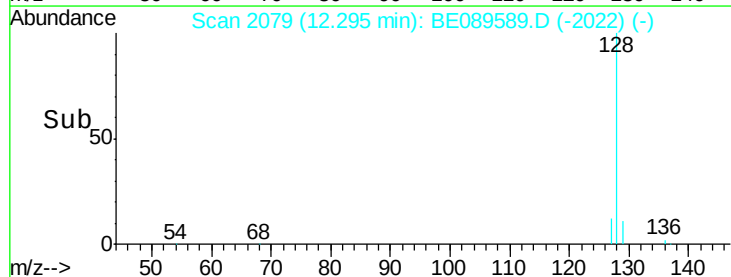
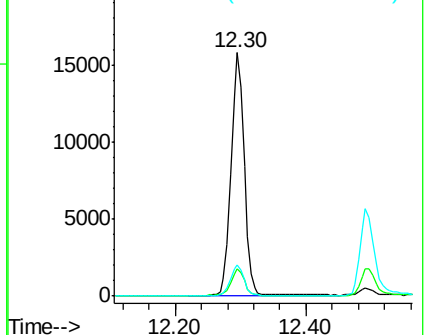
127 12.6 10.2 15.4

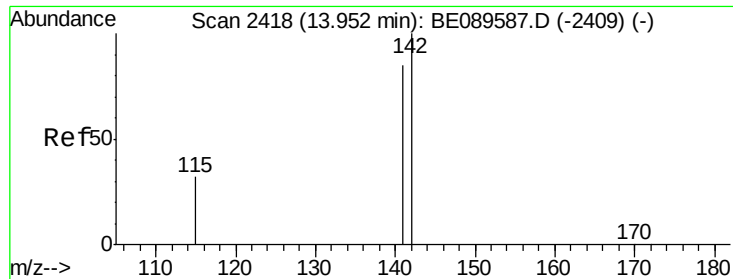


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.47 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

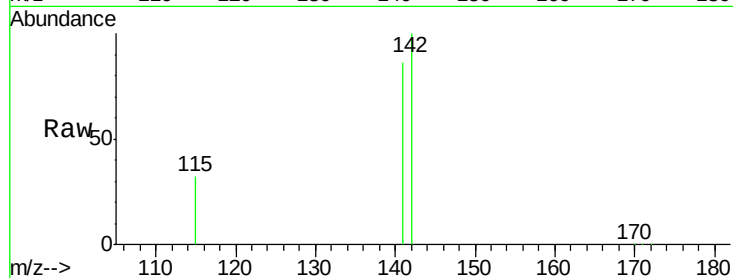
Tot Ion:142 Resp: 13759

Ion Ratio Lower Upper

142 100

141 85.5 68.1 102.1

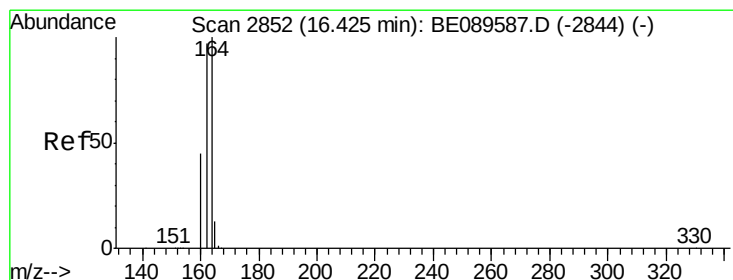
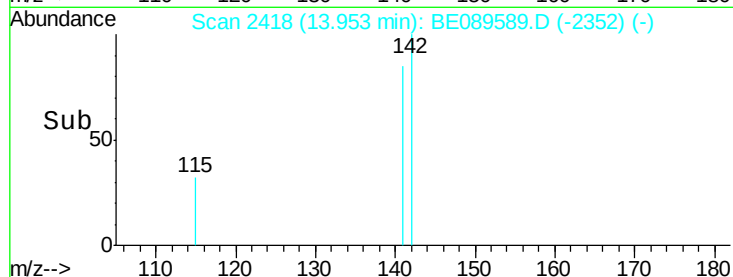
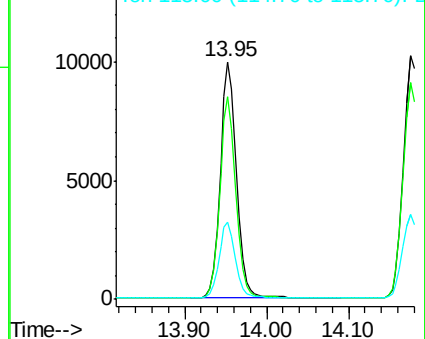
115 32.5 25.8 38.8



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: 16.43 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

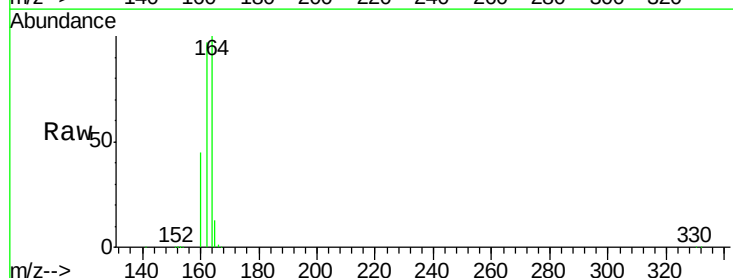
Tgt Ion:164 Resp: 93982

Ion Ratio Lower Upper

164 100

162 97.3 77.8 116.8

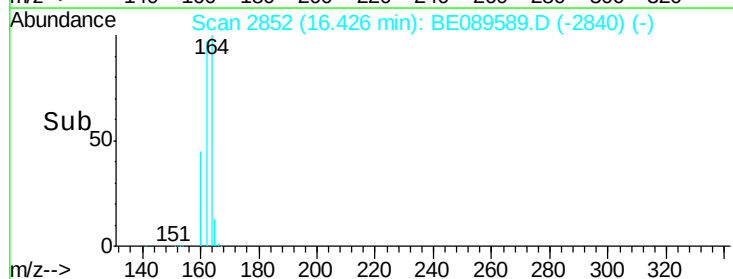
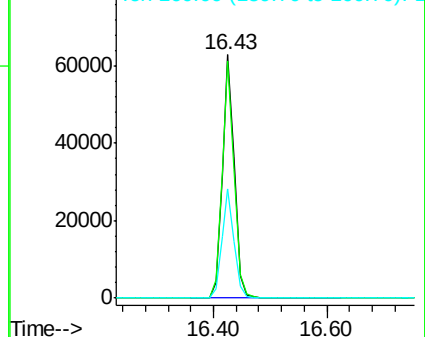
160 44.9 35.8 53.6

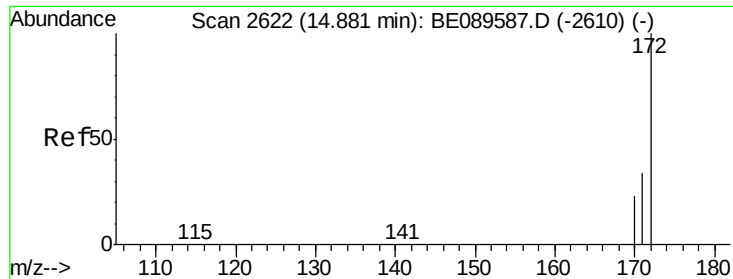


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.47 ng

RT: 14.88 min Scan# 2622

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

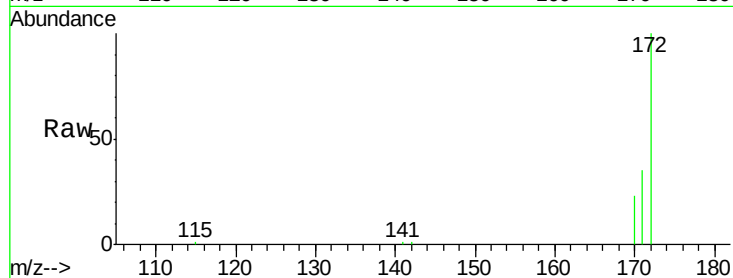
Tot Ion:172 Resp: 14016

Ion Ratio Lower Upper

172 100

171 34.7 27.4 41.0

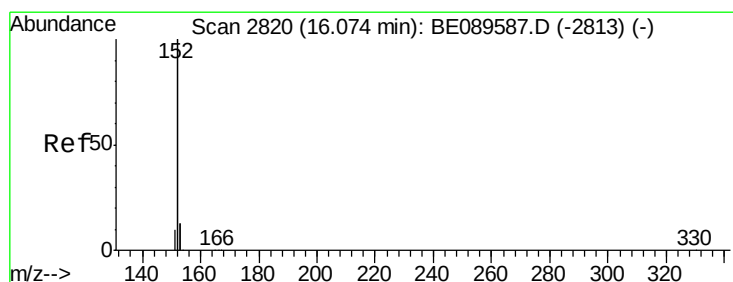
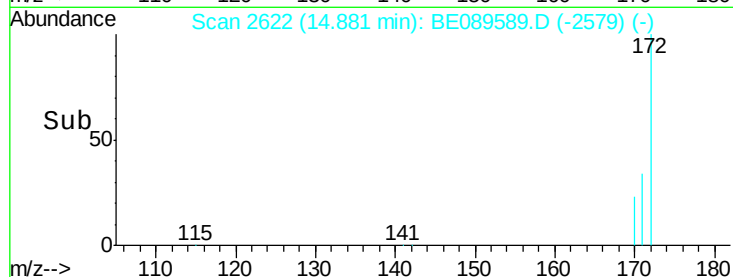
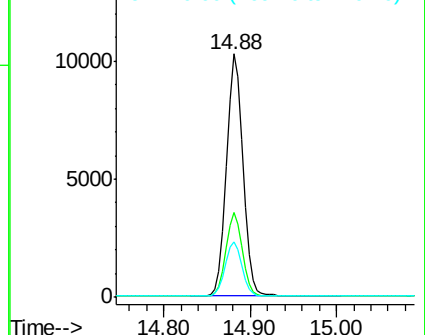
170 22.9 18.6 27.8



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: 0.45 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

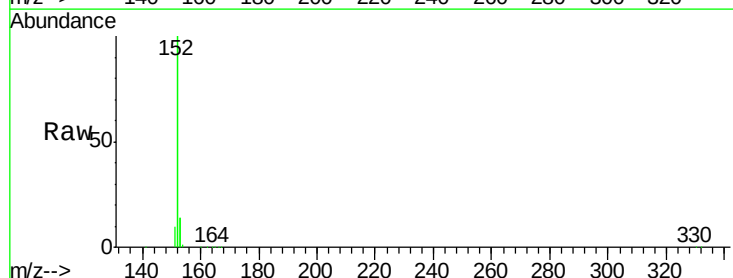
Tgt Ion:152 Resp: 81133

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

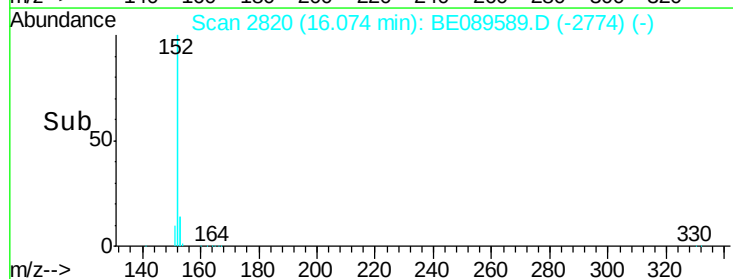
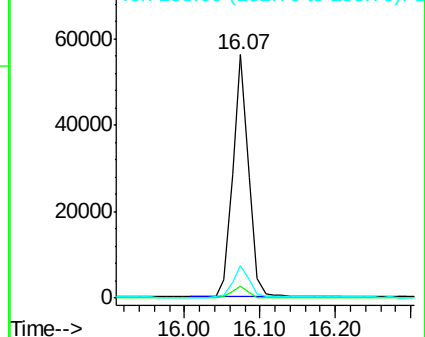
153 13.1 10.4 15.6

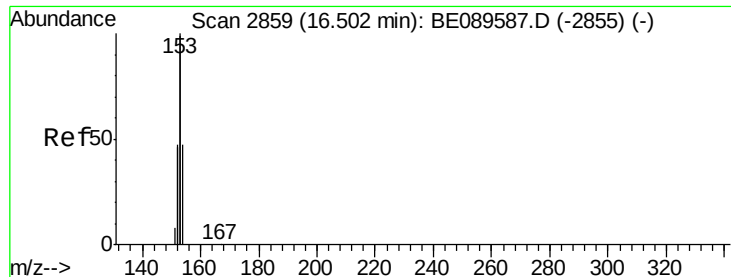


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.47 ng

RT: 16.50 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

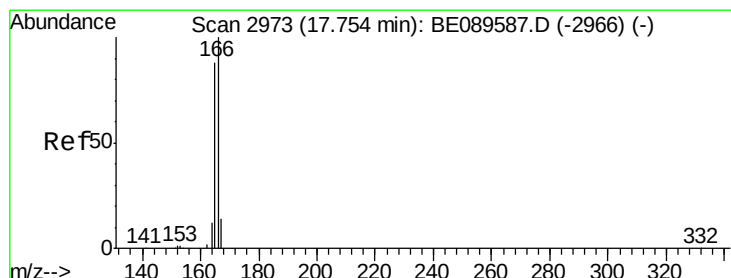
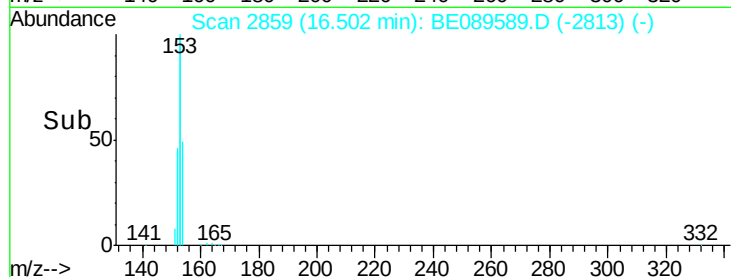
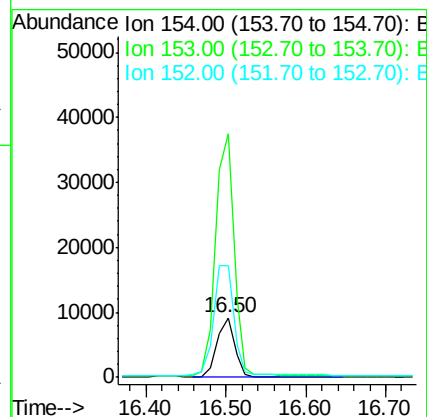
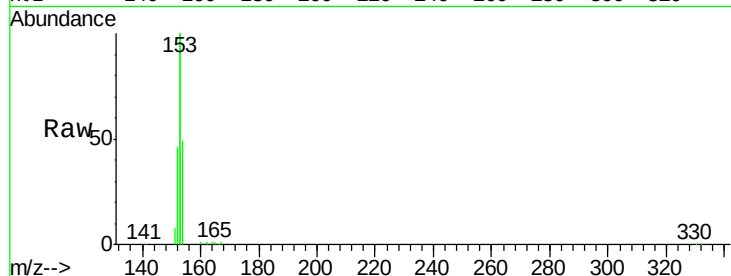
Tot Ion:154 Resp: 13884

Ion Ratio Lower Upper

154 100

153 431.5 346.6 519.8

152 212.9 169.0 253.6



#12

Fluorene

Concen: 0.47 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.01 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

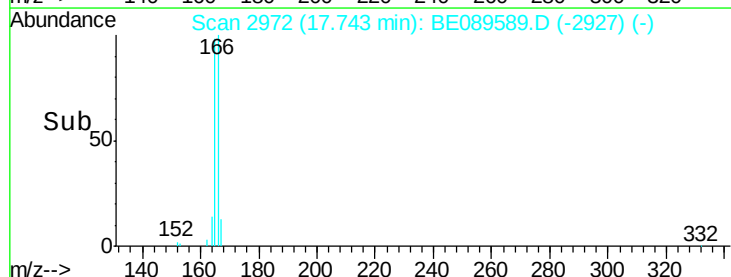
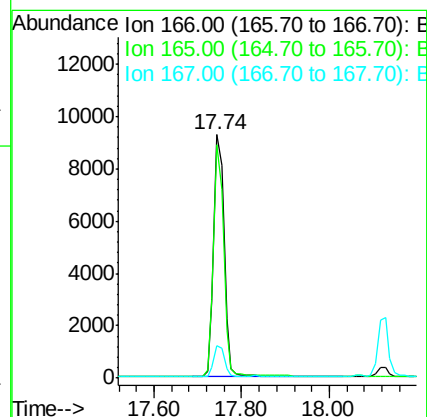
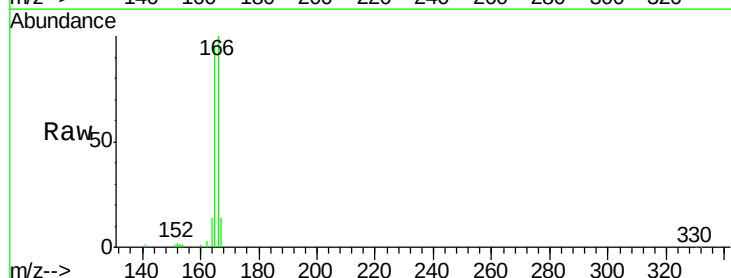
Tgt Ion:166 Resp: 15439

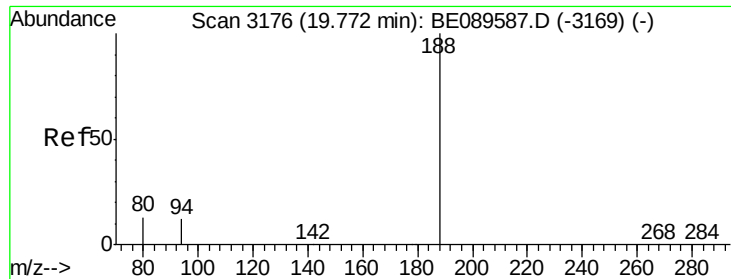
Ion Ratio Lower Upper

166 100

165 92.2 73.8 110.6

167 13.3 10.6 15.8

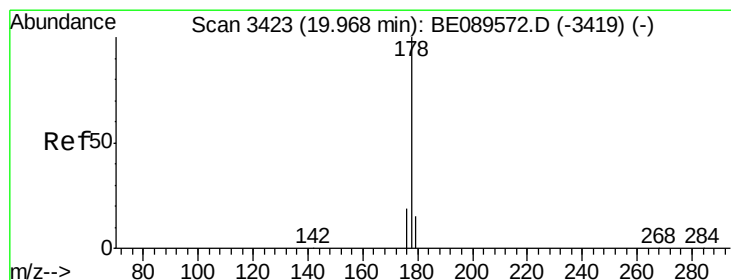
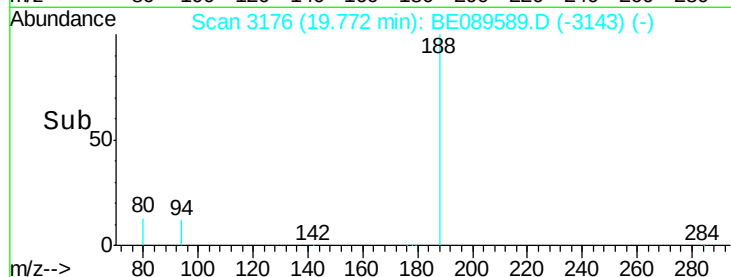
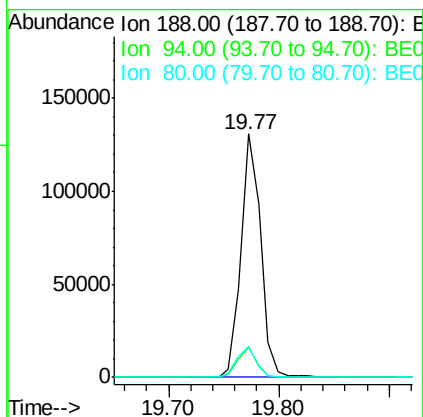
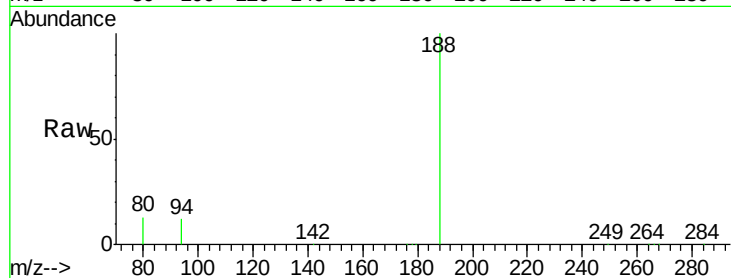




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089589.D
Acq: 17 Feb 2015 4:56

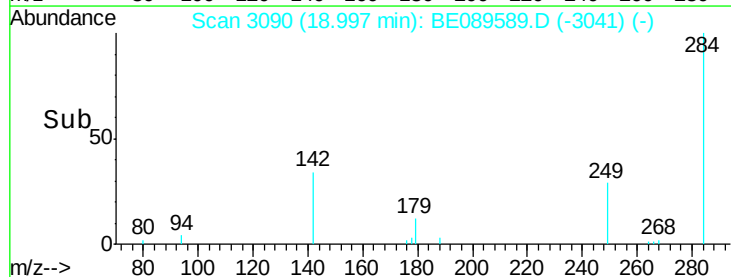
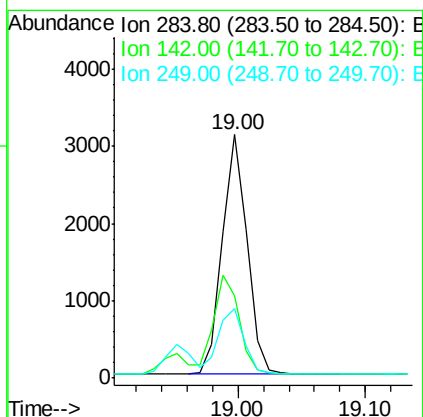
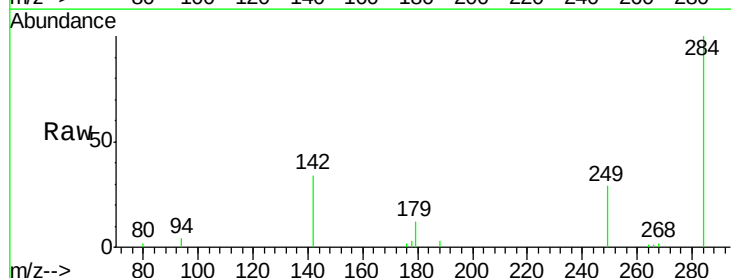
Instrument :
BNA_E
ClientSampleId :

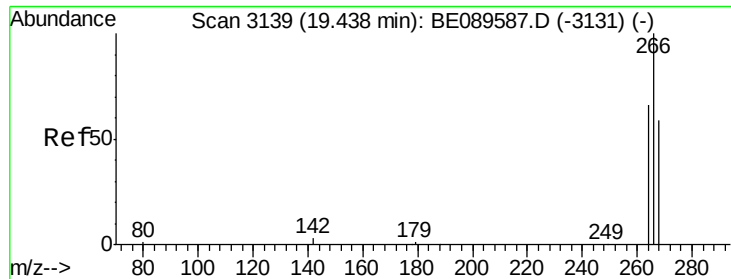
Tot Ion:188 Resp: 162574
Ion Ratio Lower Upper
188 100
94 12.3 9.8 14.8
80 12.7 10.2 15.4



#14
Hexachlorobenzene
Concen: 0.46 ng
RT: 19.00 min Scan# 3090
Delta R.T. 0.00 min
Lab File: BE089589.D
Acq: 17 Feb 2015 4:56

Tgt Ion:284 Resp: 4205
Ion Ratio Lower Upper
284 100
142 41.5 33.1 49.7
249 28.6 22.8 34.2

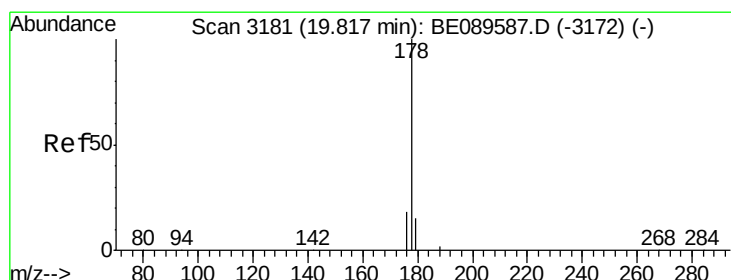
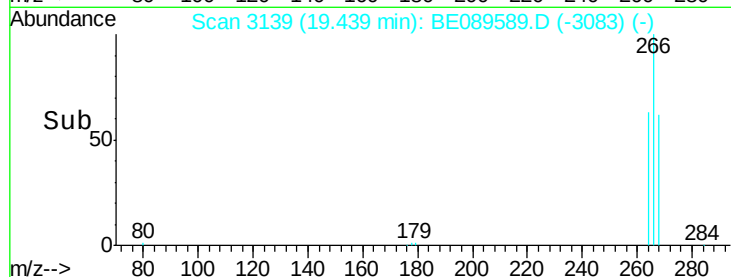
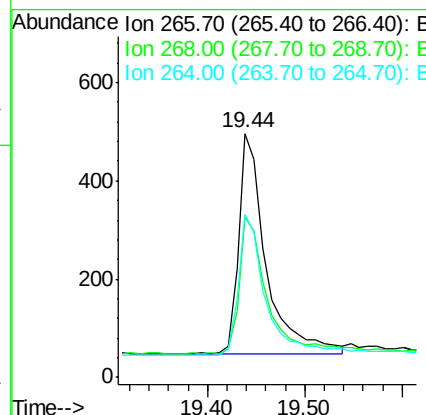
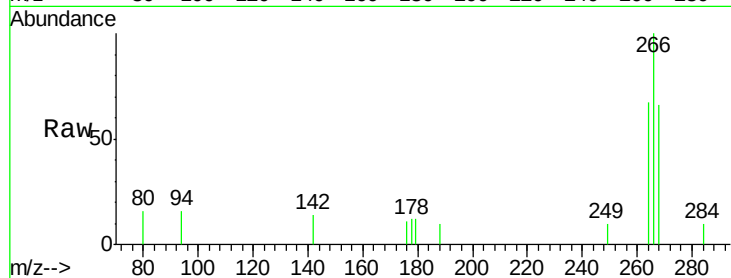




#15
 Pentachlorophenol
 Concen: 0.33 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. 0.00 min
 Lab File: BE089589.D
 Acq: 17 Feb 2015 4:56

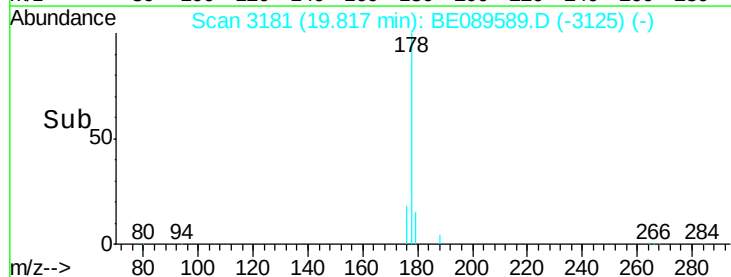
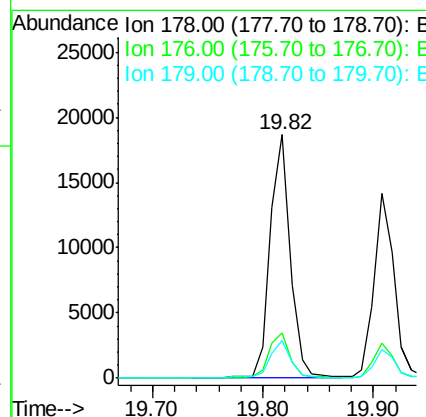
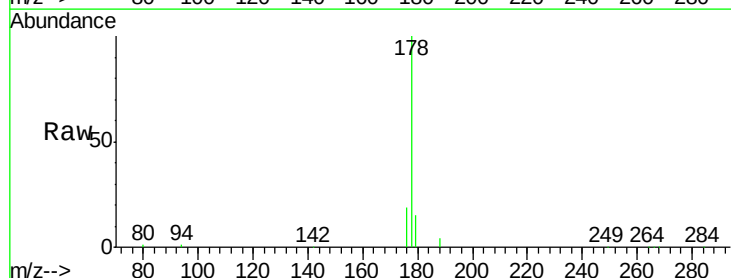
Instrument :
 BNA_E
 ClientSampleId :

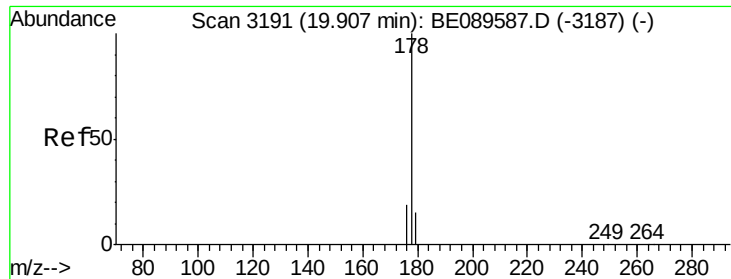
Tot Ion:266 Resp: 891
 Ion Ratio Lower Upper
 266 100
 268 65.7 48.8 73.2
 264 66.7 53.9 80.9



#16
 Phenanthrene
 Concen: 0.48 ng
 RT: 19.82 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: BE089589.D
 Acq: 17 Feb 2015 4:56

Tgt Ion:178 Resp: 23373
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.2 22.8
 179 15.5 12.4 18.6

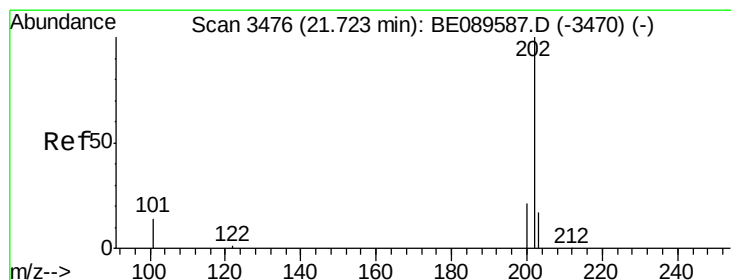
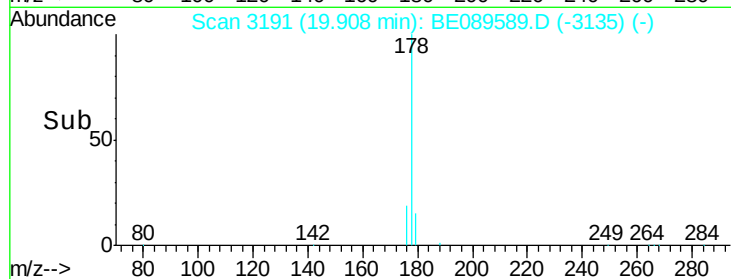
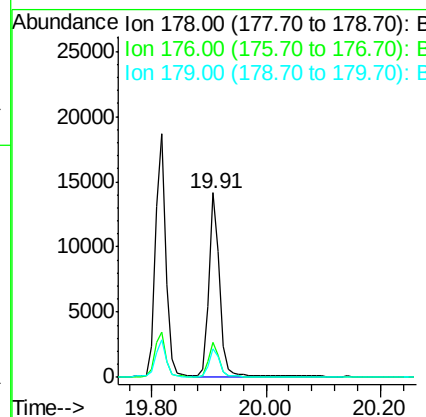
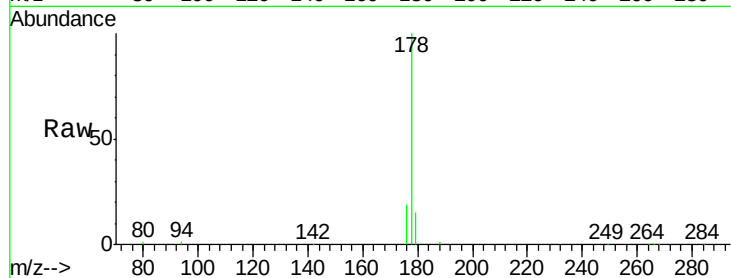




#17
 Anthracene
 Concen: 0.45 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. 0.00 min
 Lab File: BE089589.D
 Acq: 17 Feb 2015 4:56

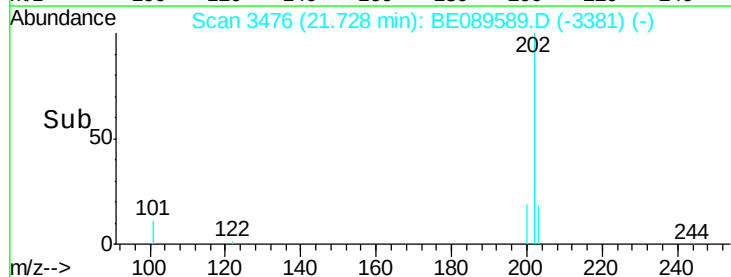
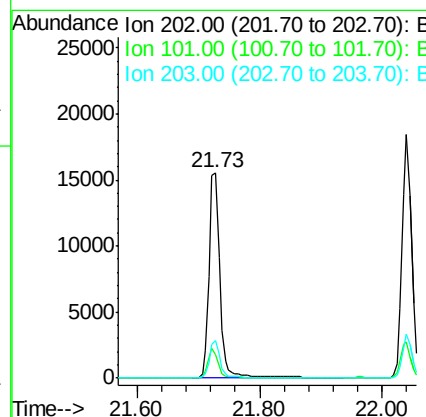
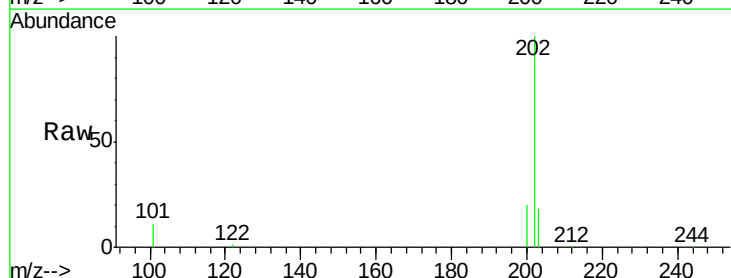
Instrument :
 BNA_E
 ClientSampleId :

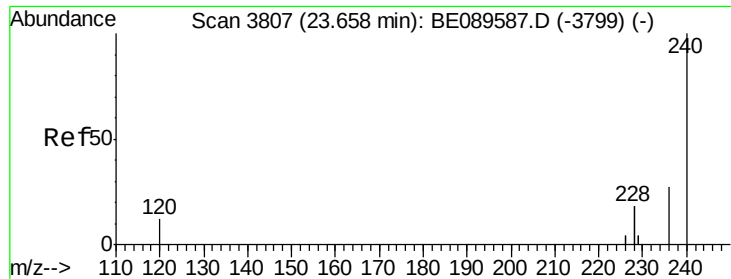
Tot Ion:178 Resp: 18203
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.7 22.1
 179 15.1 12.2 18.2



#18
 Fluoranthene
 Concen: 0.45 ng
 RT: 21.73 min Scan# 3476
 Delta R.T. 0.00 min
 Lab File: BE089589.D
 Acq: 17 Feb 2015 4:56

Tgt Ion:202 Resp: 18390
 Ion Ratio Lower Upper
 202 100
 101 13.1 10.3 15.5
 203 17.4 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

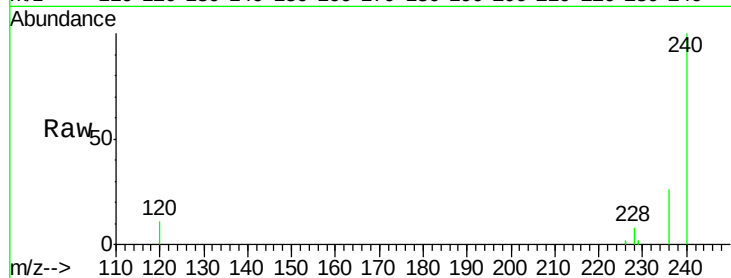
Tot Ion:240 Resp: 132446

Ion Ratio Lower Upper

240 100

120 11.4 9.9 14.9

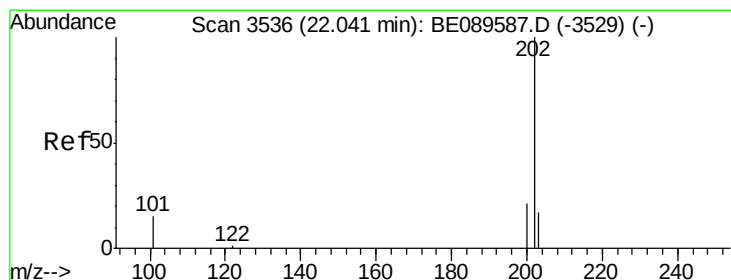
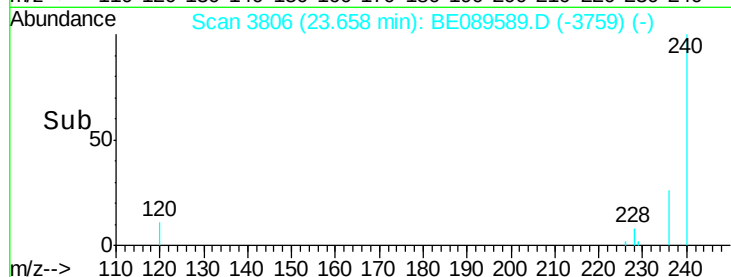
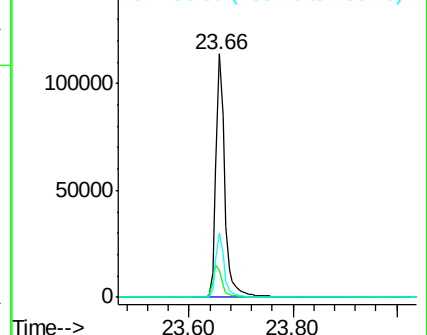
236 26.2 21.5 32.3



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: 0.47 ng

RT: 22.04 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

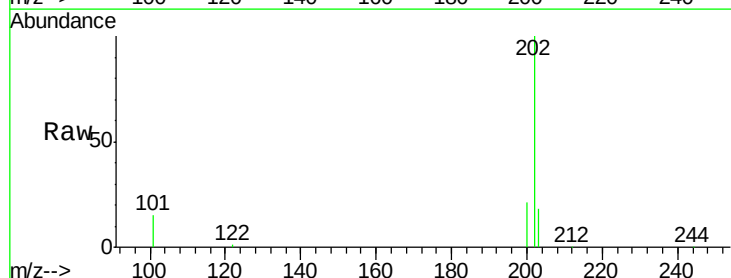
Tgt Ion:202 Resp: 19823

Ion Ratio Lower Upper

202 100

200 20.7 16.5 24.7

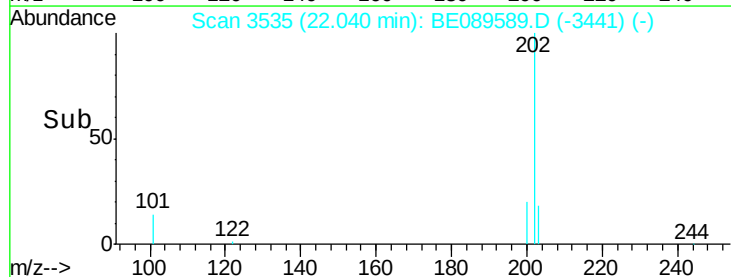
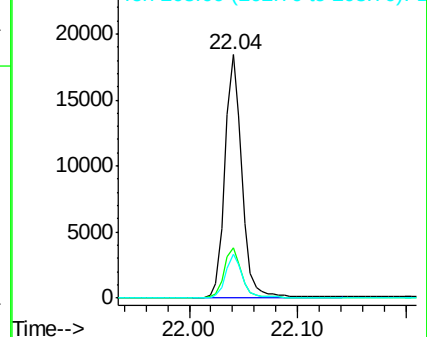
203 17.2 13.8 20.8

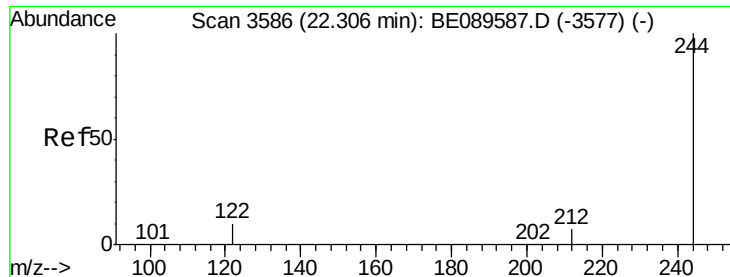


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.48 ng

RT: 22.31 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

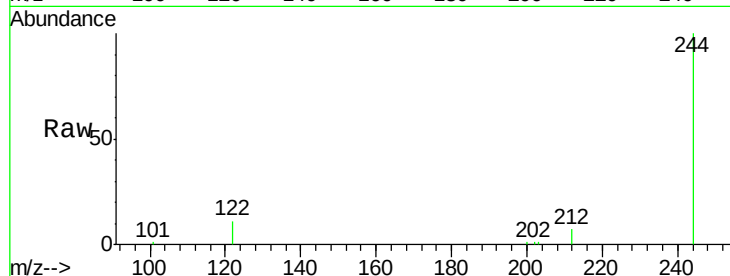
Tot Ion:244 Resp: 11869

Ion Ratio Lower Upper

244 100

212 7.3 5.5 8.3

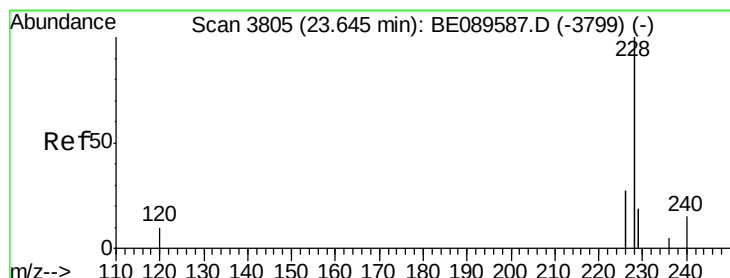
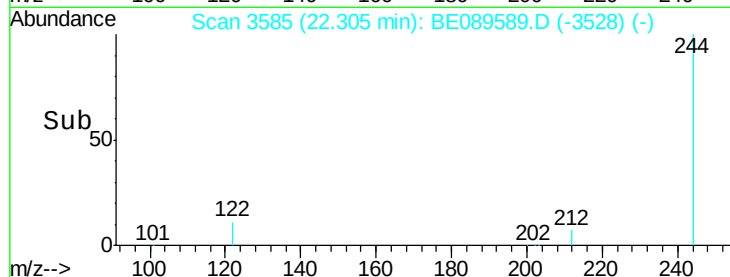
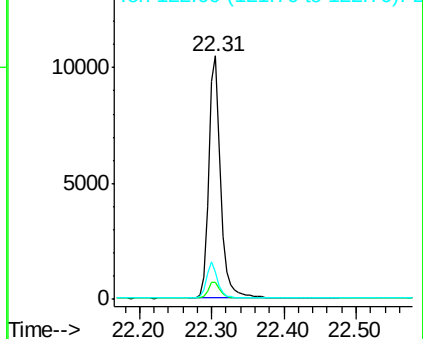
122 11.1 8.6 12.8



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: 0.45 ng

RT: 23.65 min Scan# 3804

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

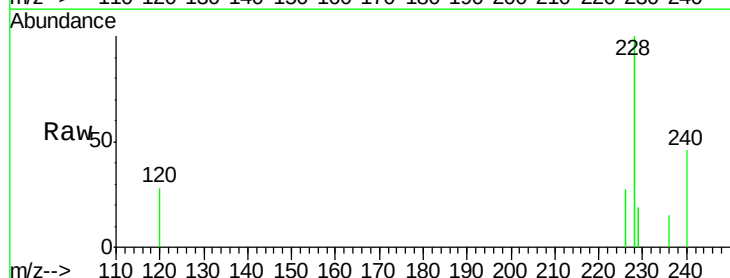
Tgt Ion:228 Resp: 61855

Ion Ratio Lower Upper

228 100

226 27.2 21.5 32.3

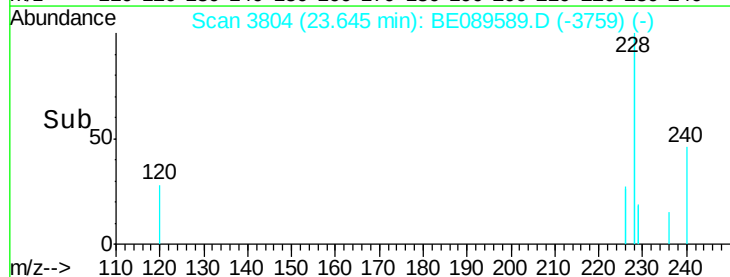
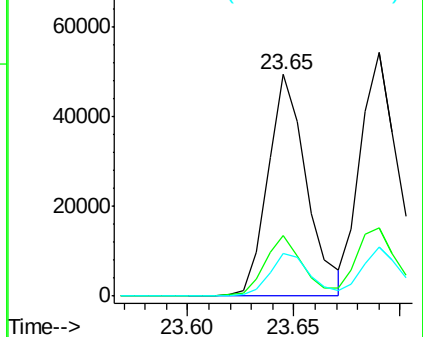
229 19.2 15.0 22.4

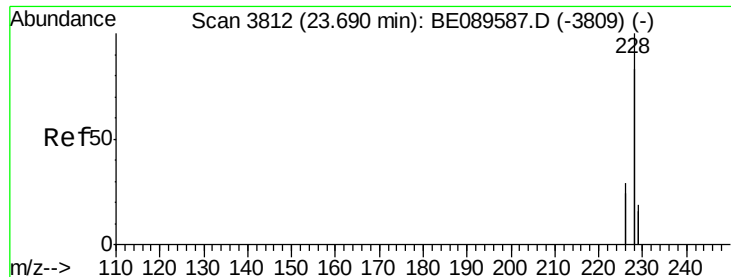


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.48 ng

RT: 23.69 min Scan# 3811

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

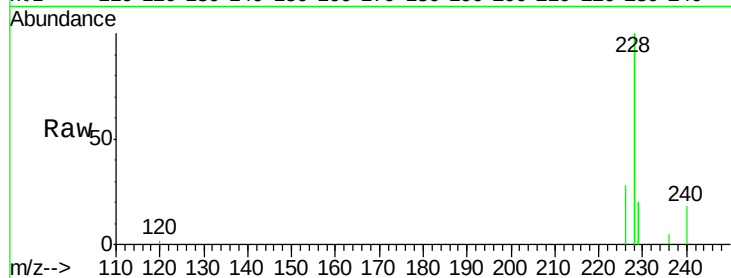
Tot Ion:228 Resp: 77612

Ion Ratio Lower Upper

228 100

226 28.1 23.3 34.9

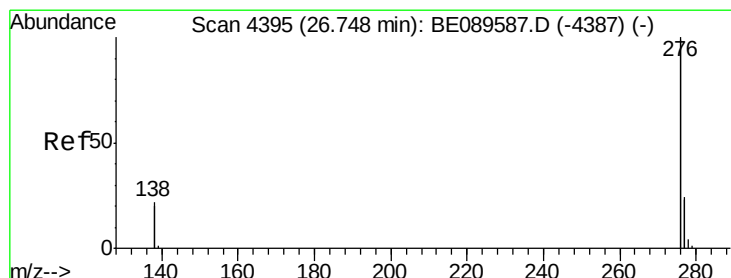
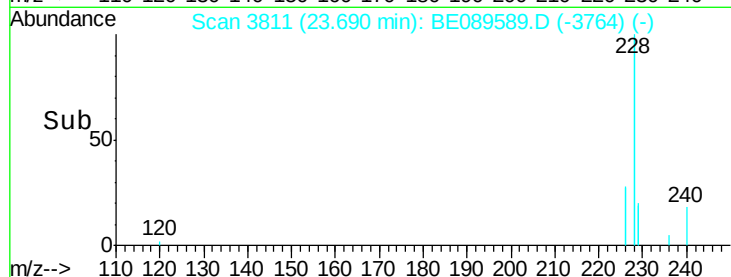
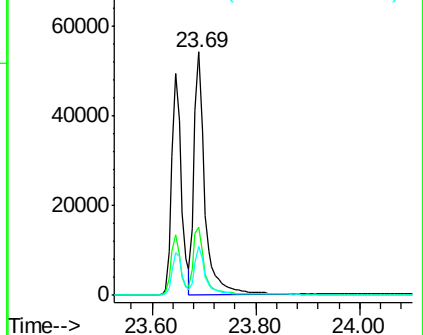
229 20.1 15.4 23.2



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: 0.42 ng

RT: 26.75 min Scan# 4394

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

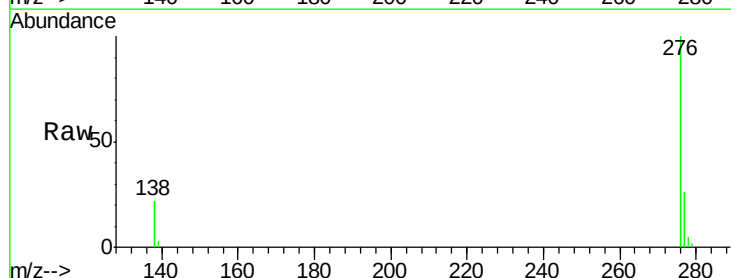
Tgt Ion:276 Resp: 49778

Ion Ratio Lower Upper

276 100

138 7.4 21.0 31.6#

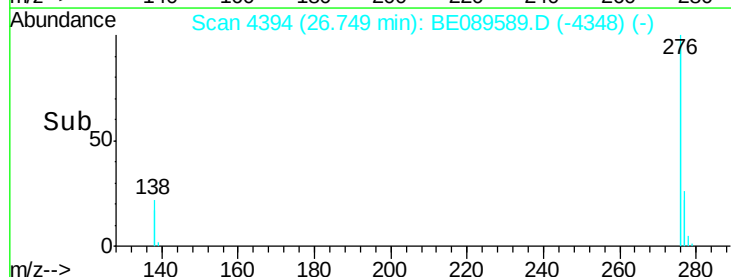
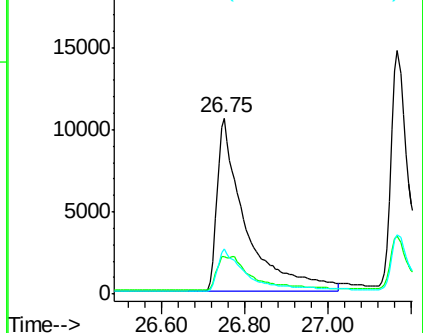
277 25.1 20.0 30.0

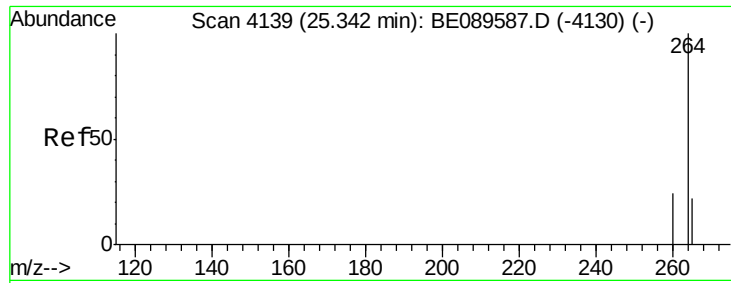


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

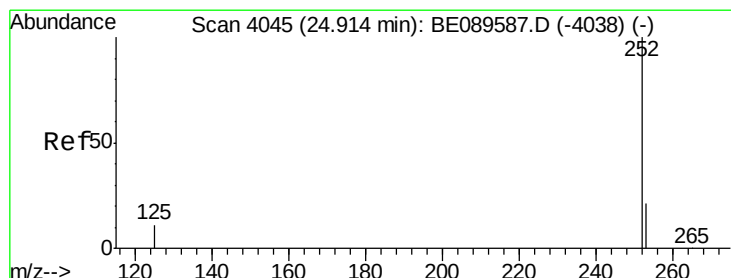
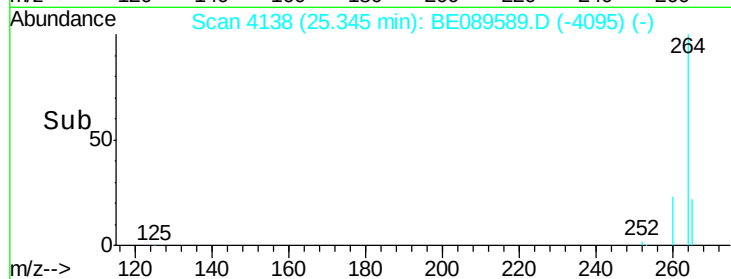
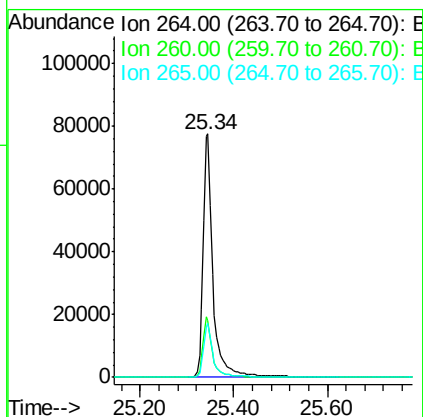
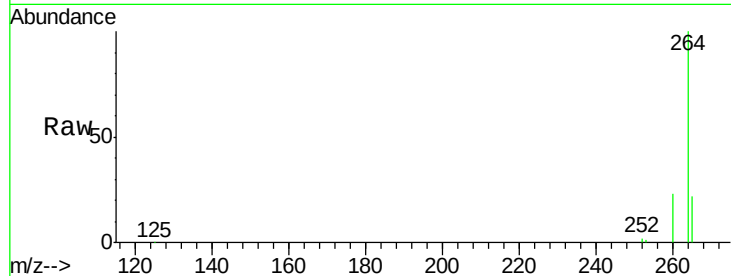




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. 0.00 min
Lab File: BE089589.D
Acq: 17 Feb 2015 4:56

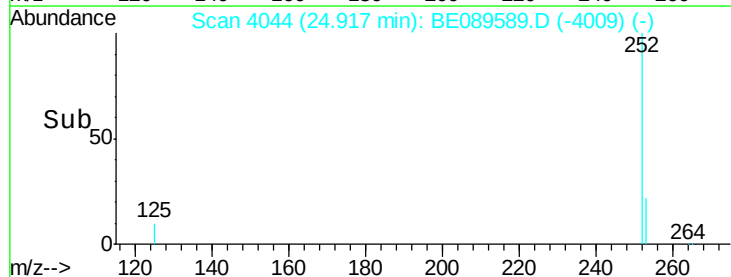
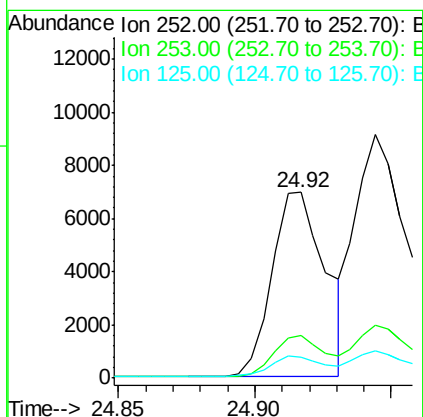
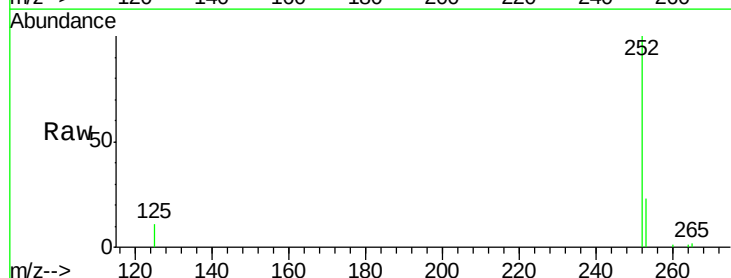
Instrument :
BNA_E
ClientSampleId :

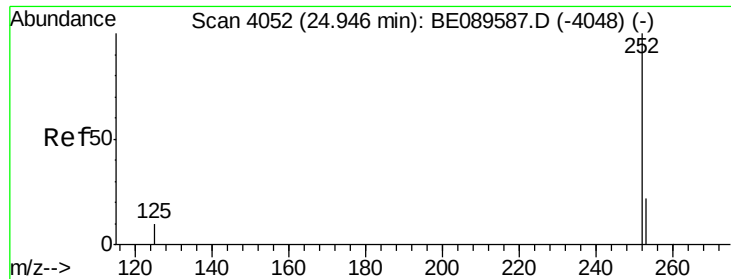
Tot Ion:264 Resp: 113473
Ion Ratio Lower Upper
264 100
260 23.4 19.4 29.0
265 22.4 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.41 ng
RT: 24.92 min Scan# 4044
Delta R.T. 0.00 min
Lab File: BE089589.D
Acq: 17 Feb 2015 4:56

Tgt Ion:252 Resp: 9419
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 11.2 8.9 13.3





#27

Benzo(k)fluoranthene

Concen: 0.48 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

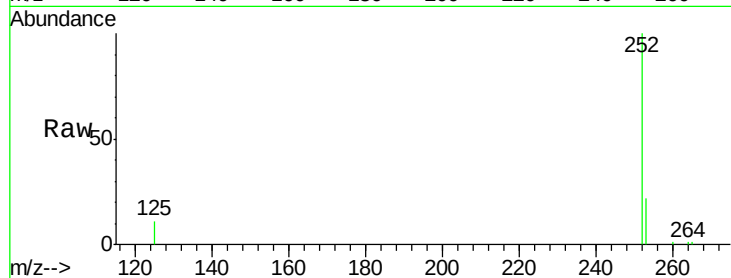
Tot Ion:252 Resp: 18202

Ion Ratio Lower Upper

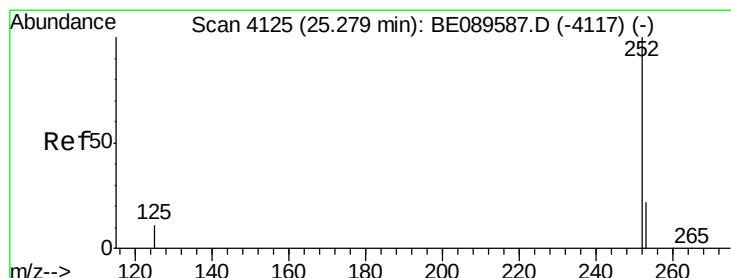
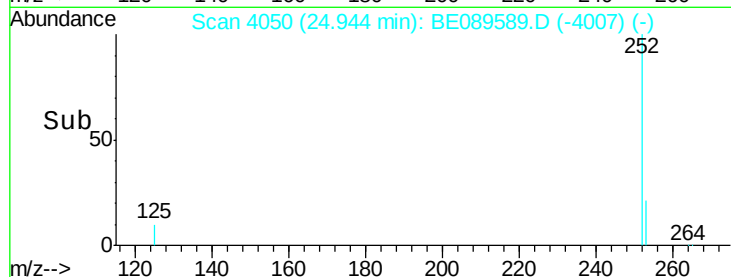
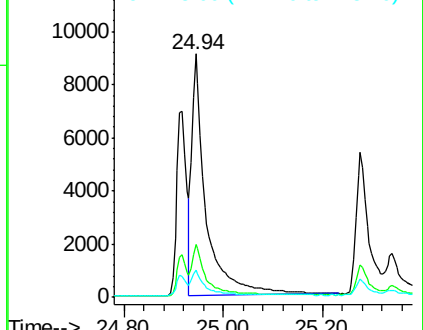
252 100

253 21.8 17.9 26.9

125 10.9 8.6 13.0



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



#28

Benzo(a)pyrene

Concen: 0.41 ng

RT: 25.28 min Scan# 4123

Delta R.T. -0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

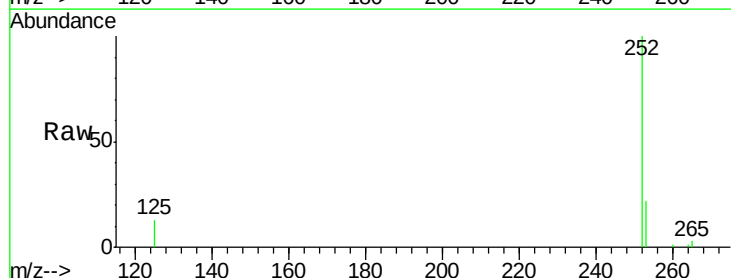
Tgt Ion:252 Resp: 9085

Ion Ratio Lower Upper

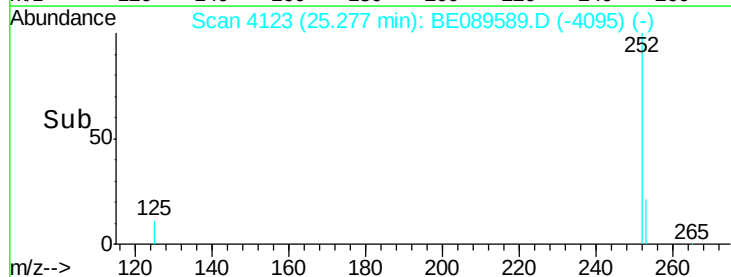
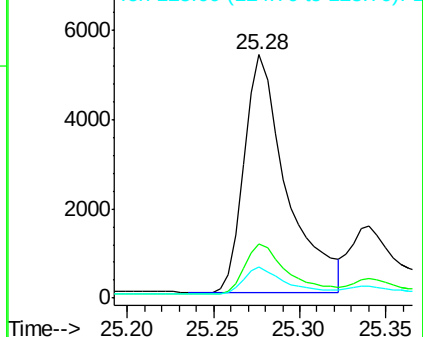
252 100

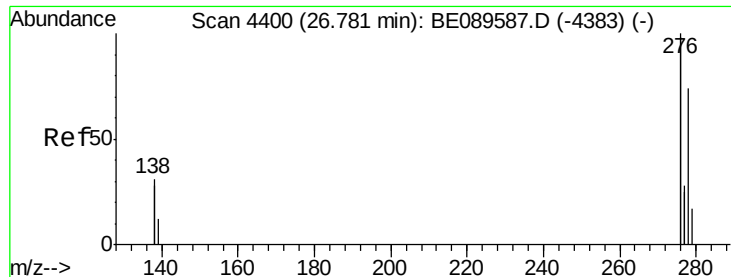
253 22.5 17.7 26.5

125 12.8 9.6 14.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.42 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.01 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

Instrument :

BNA_E

ClientSampleId :

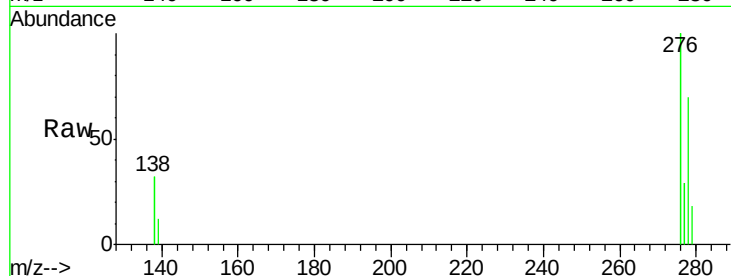
Tot Ion:278 Resp: 9554

Ion Ratio Lower Upper

278 100

139 17.8 13.9 20.9

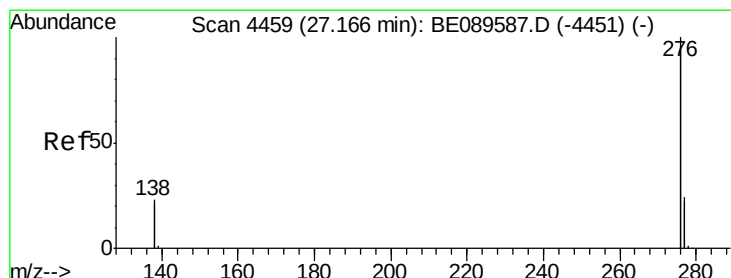
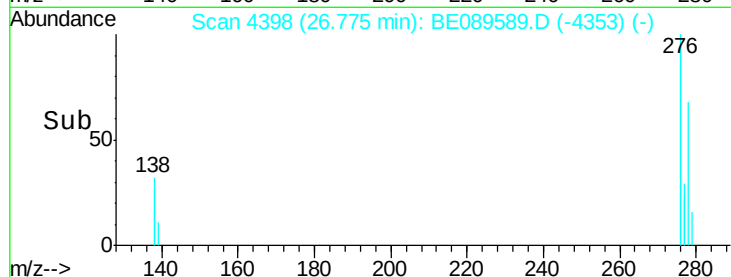
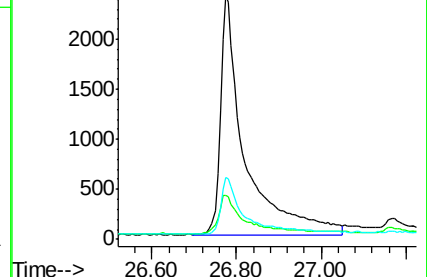
279 25.2 19.5 29.3



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: 0.44 ng

RT: 27.17 min Scan# 4458

Delta R.T. 0.00 min

Lab File: BE089589.D

Acq: 17 Feb 2015 4:56

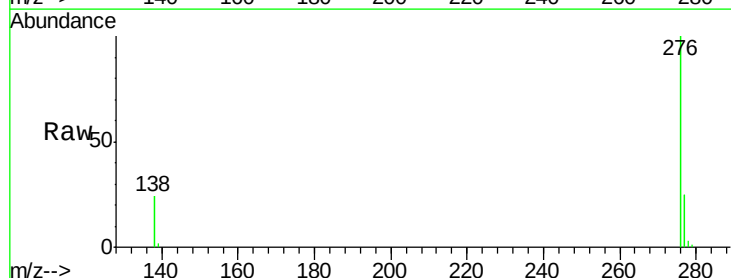
Tgt Ion:276 Resp: 49370

Ion Ratio Lower Upper

276 100

277 24.5 19.1 28.7

138 23.7 18.5 27.7



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

