

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089617.D
 Acq On : 18 Feb 2015 6:05
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE021815

Quant Time: Feb 18 13:10:24 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

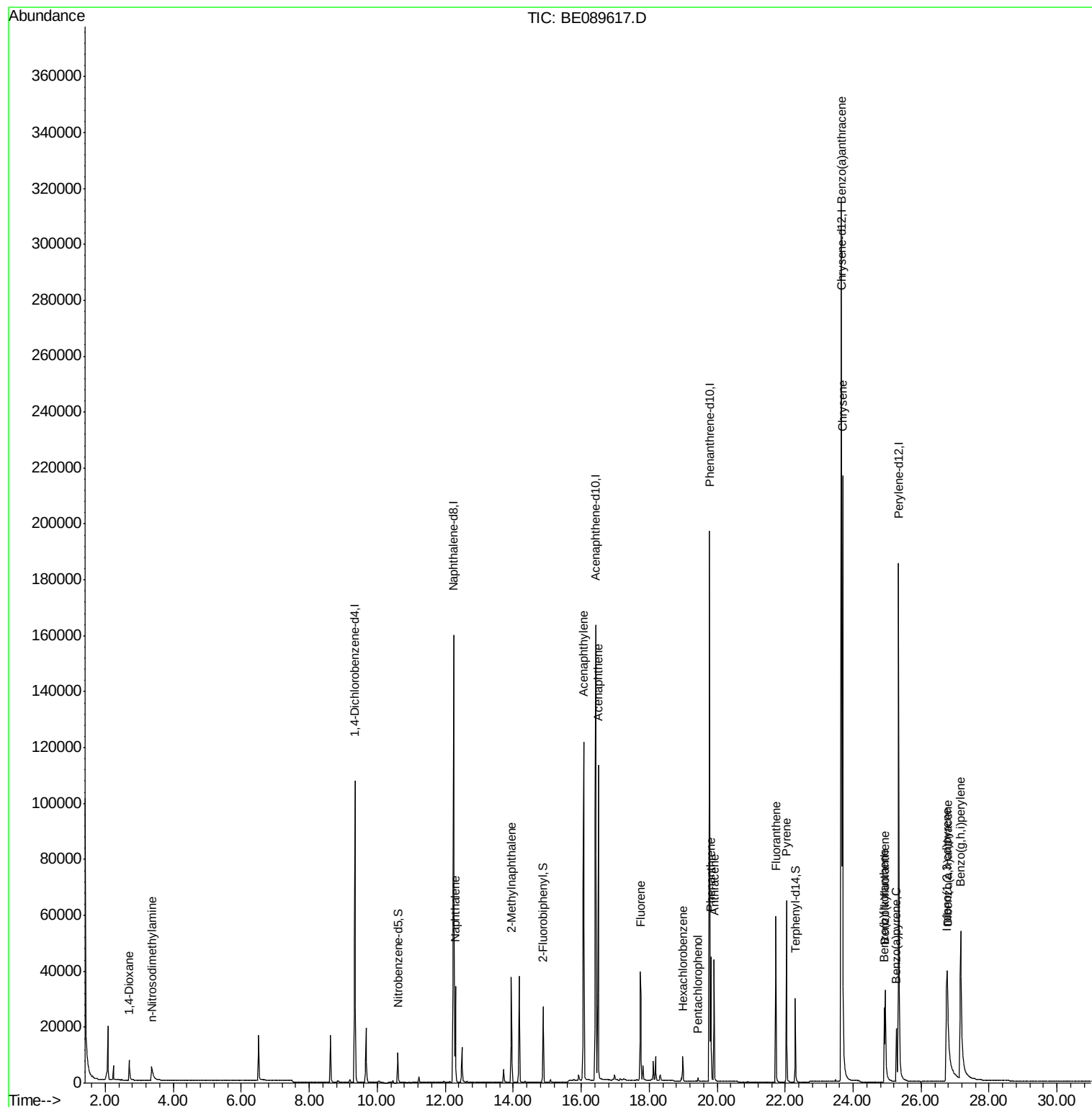
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	49125	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	197471	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	96754	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	190912	5.00	ng	0.00
19) Chrysene-d12	23.66	240	197770	5.00	ng	0.00
25) Perylene-d12	25.34	264	168476	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	8248	0.96	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	25008	0.96	ng	0.00
21) Terphenyl-d14	22.30	244	27003	0.95	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.70	88	5799	0.97	ng	97
3) n-Nitrosodimethylamine	3.36	42	5733	1.00	ng	95
6) Naphthalene	12.30	128	42419	0.96	ng	100
7) 2-Methylnaphthalene	13.95	142	26083	0.96	ng	100
10) Acenaphthylene	16.07	152	152923	0.97	ng	100
11) Acenaphthene	16.50	154	24140	0.95	ng	100
12) Fluorene	17.74	166	27885	0.96	ng	99
14) Hexachlorobenzene	19.00	284	7852	0.96	ng	99
15) Pentachlorophenol	19.44	266	1047	0.91	ng	97
16) Phenanthrene	19.81	178	44675	0.95	ng	100
17) Anthracene	19.91	178	38617	0.97	ng	100
18) Fluoranthene	21.72	202	42823	0.96	ng	100
20) Pyrene	22.04	202	47038	0.96	ng	100
22) Benzo(a)anthracene	23.64	228	164201	0.94	ng	99
23) Chrysene	23.69	228	186633	0.96	ng	100
24) Indeno(1,2,3-cd)pyrene	26.75	276	126349	0.87	ng	99
26) Benzo(b)fluoranthene	24.91	252	24029	0.84	ng	100
27) Benzo(k)fluoranthene	24.95	252	48848	1.02	ng	100
28) Benzo(a)pyrene	25.27	252	24722	0.87	ng	98
29) Dibenzo(a,h)anthracene	26.78	278	24440	0.87	ng	99
30) Benzo(g,h,i)perylene	27.16	276	118071	0.90	ng	99

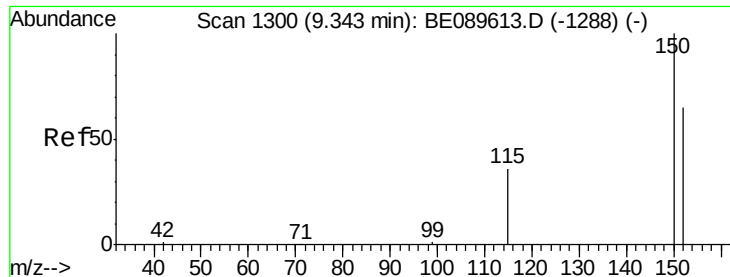
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

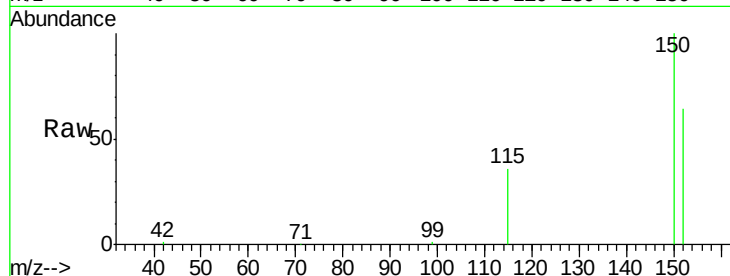
Tgt Ion:152 Resp: 49125

Ion Ratio Lower Upper

152 100

150 155.2 122.4 183.6

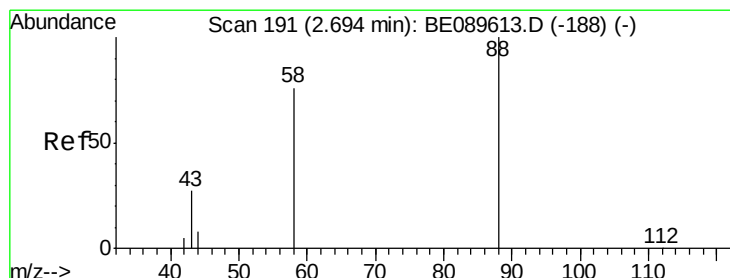
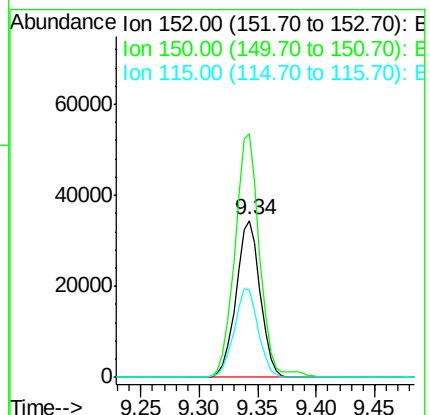
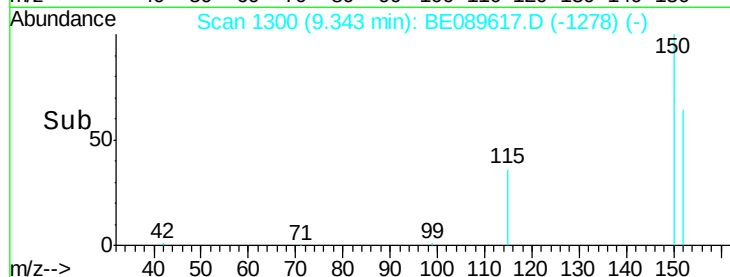
115 55.7 44.2 66.2



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: 0.97 ng

RT: 2.70 min Scan# 192

Delta R.T. 0.01 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

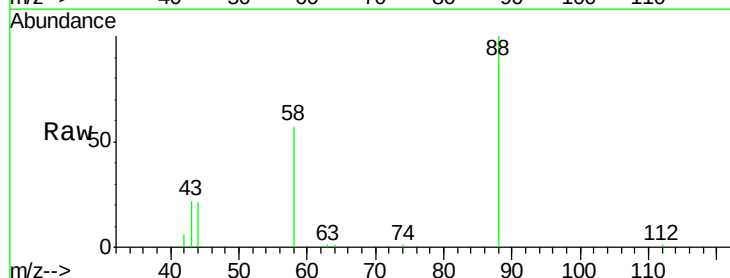
Tgt Ion: 88 Resp: 5799

Ion Ratio Lower Upper

88 100

58 65.0 54.6 81.8

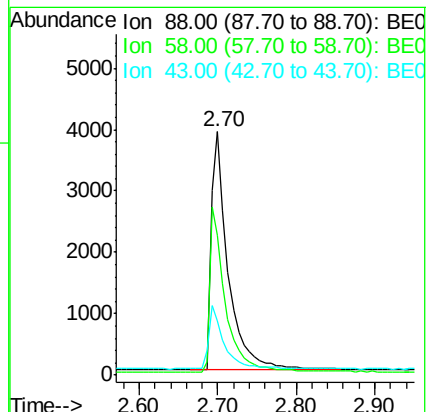
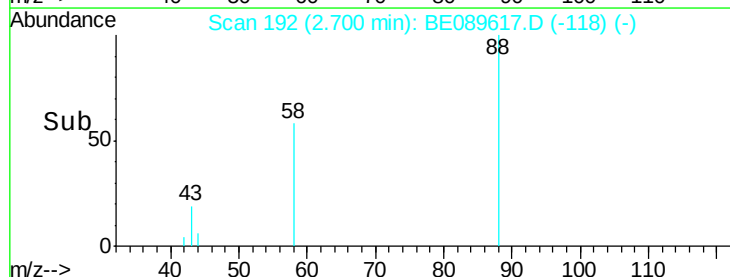
43 25.7 20.6 30.8

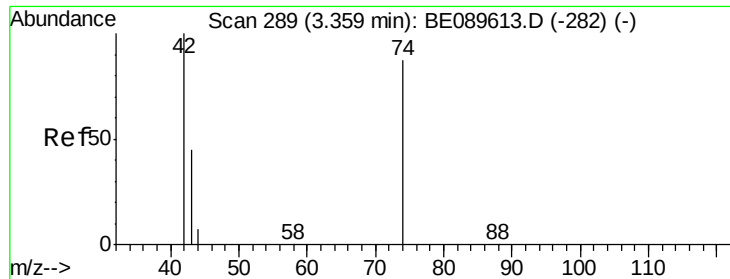


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



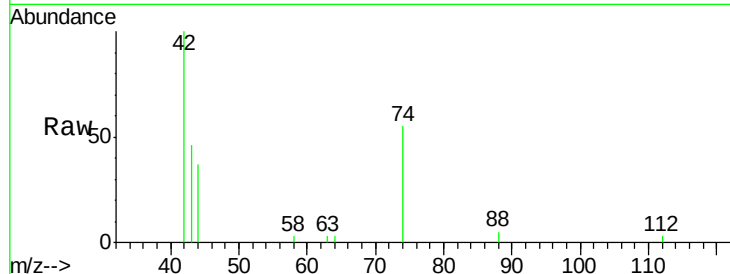


#3

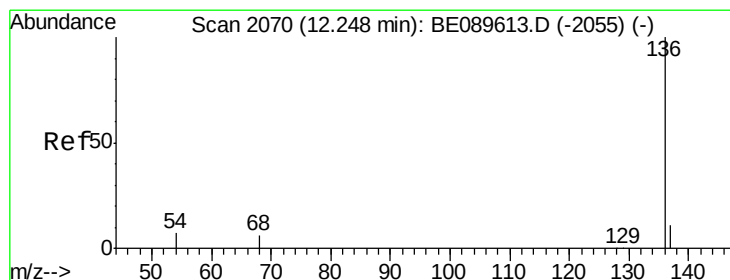
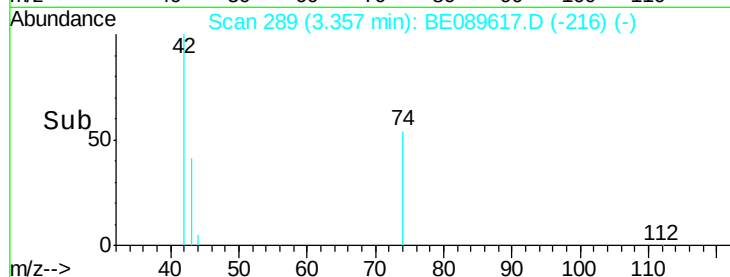
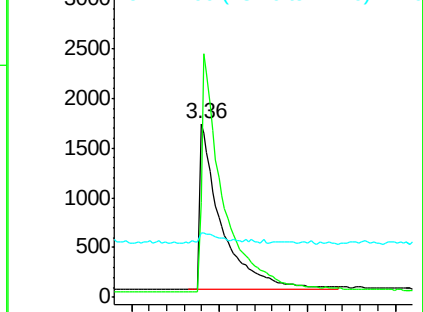
n-Nitrosodimethylamine
 Concen: 1.00 ng
 RT: 3.36 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: BE089617.D
 Acq: 18 Feb 2015 6:05

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE021815

Tgt Ion: 42 Resp: 5733
 Ion Ratio Lower Upper
 42 100
 74 145.3 121.4 182.0
 44 6.6 4.5 6.7



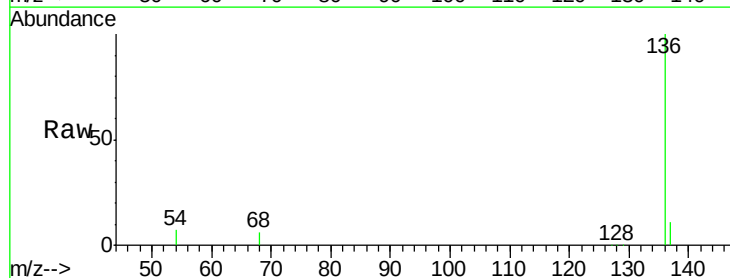
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



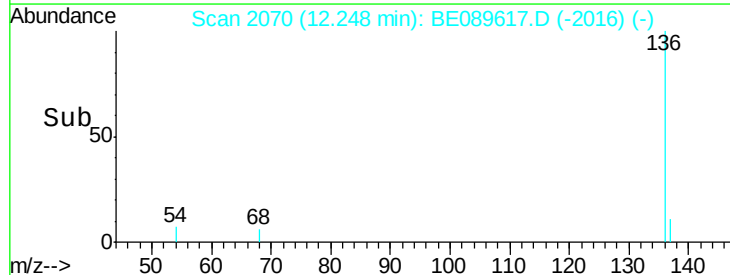
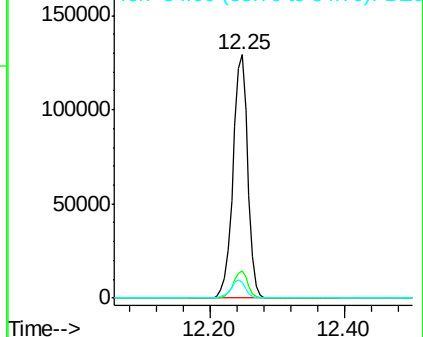
#4

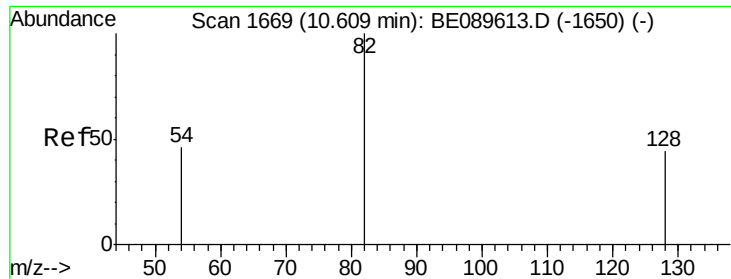
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. -0.00 min
 Lab File: BE089617.D
 Acq: 18 Feb 2015 6:05

Tgt Ion: 136 Resp: 197471
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 6.6 5.3 7.9



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: 0.96 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

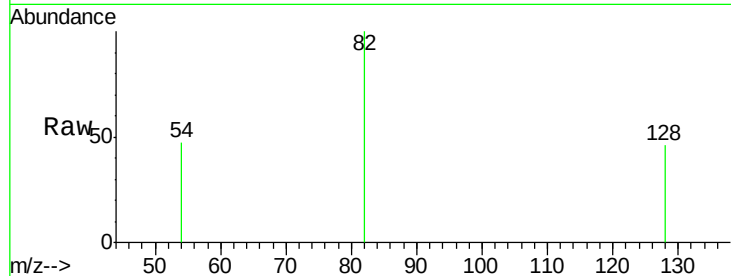
Tgt Ion: 82 Resp: 8248

Ion Ratio Lower Upper

82 100

128 45.8 35.5 53.3

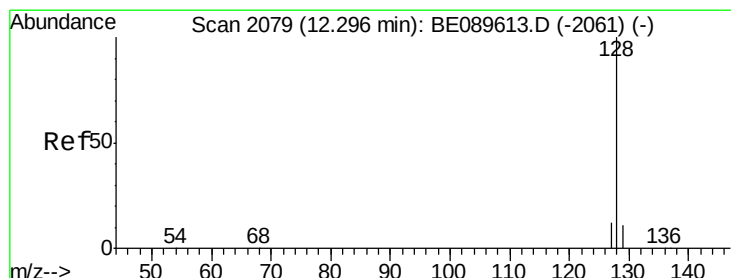
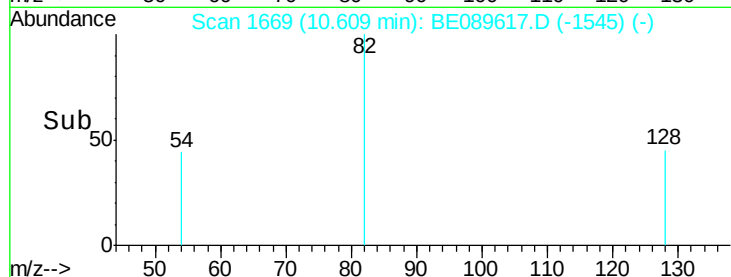
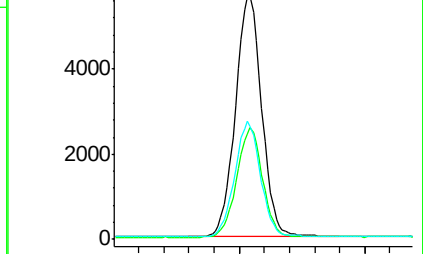
54 46.5 37.5 56.3



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



#6

Naphthalene

Concen: 0.96 ng

RT: 12.30 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

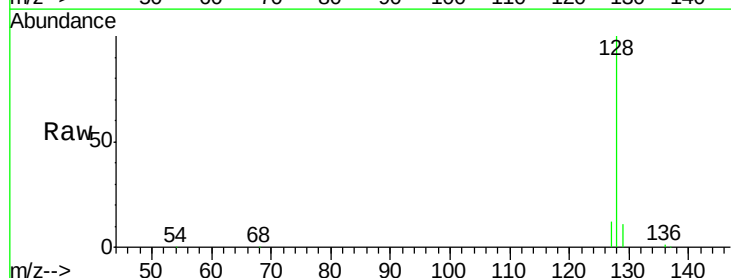
Tgt Ion: 128 Resp: 42419

Ion Ratio Lower Upper

128 100

129 11.3 8.9 13.3

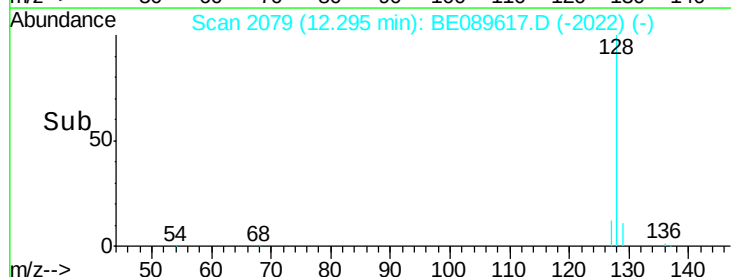
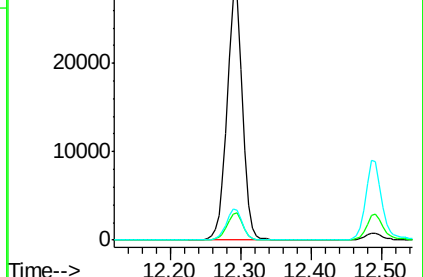
127 12.3 9.8 14.8

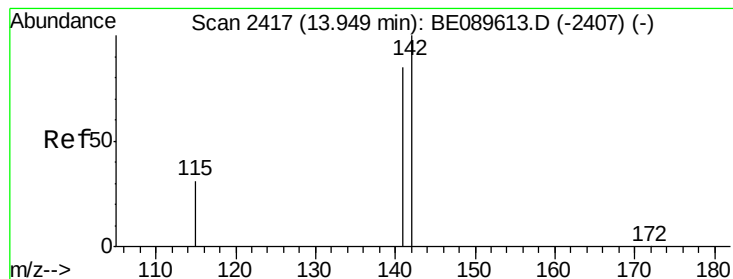


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.96 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

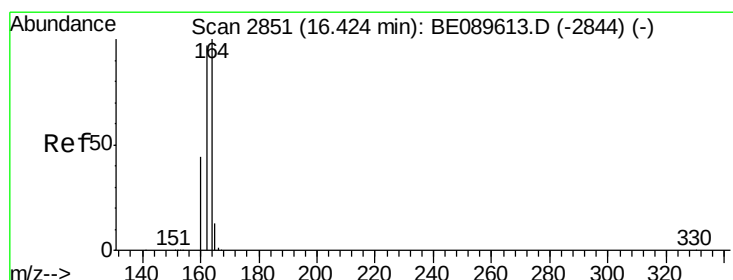
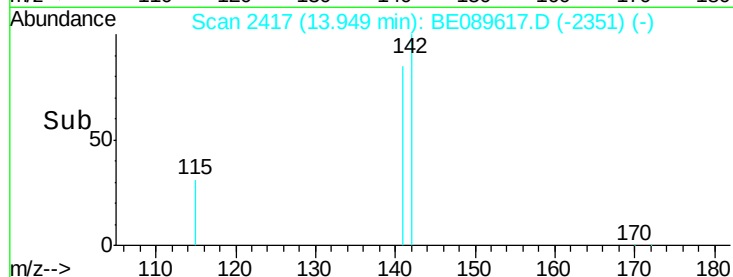
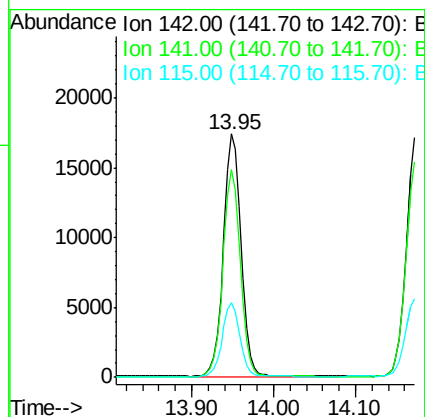
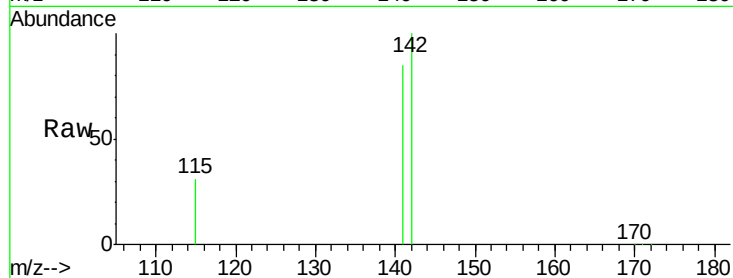
Tgt Ion:142 Resp: 26083

Ion Ratio Lower Upper

142 100

141 85.3 68.3 102.5

115 30.8 25.1 37.7



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2851

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

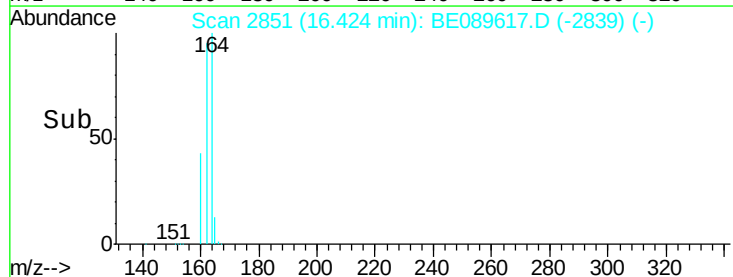
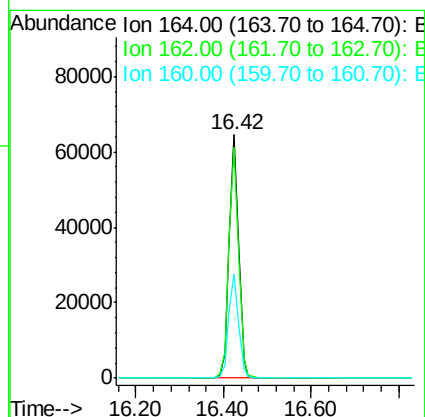
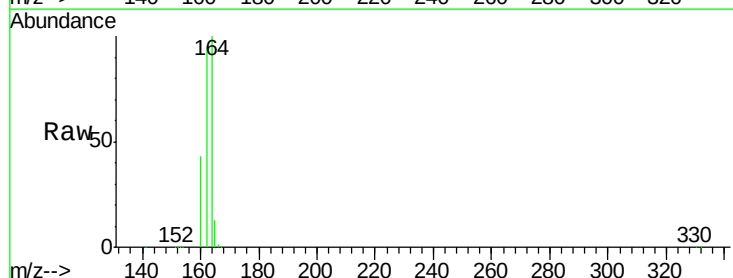
Tgt Ion:164 Resp: 96754

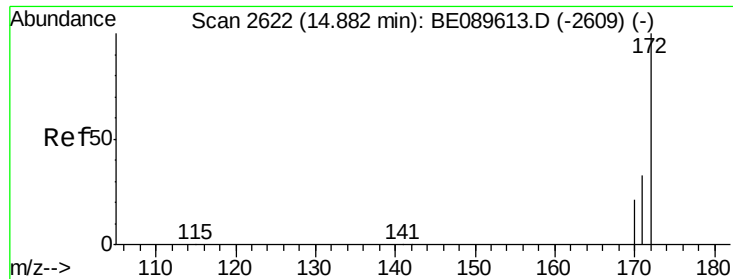
Ion Ratio Lower Upper

164 100

162 95.0 77.5 116.3

160 42.9 35.5 53.3





#9

2-Fluorobiphenyl

Concen: 0.96 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

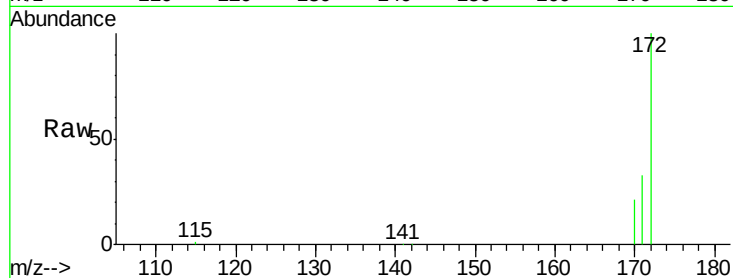
Tgt Ion:172 Resp: 25008

Ion Ratio Lower Upper

172 100

171 33.0 26.9 40.3

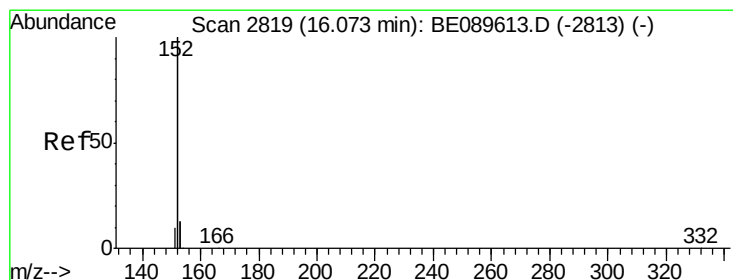
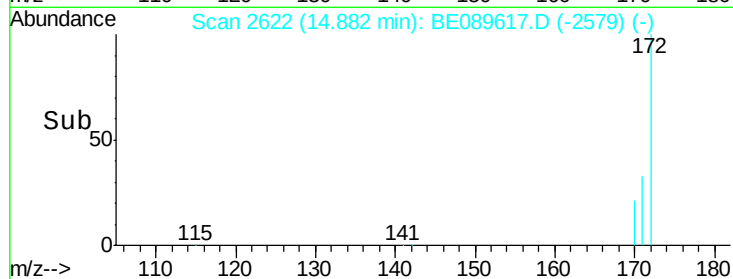
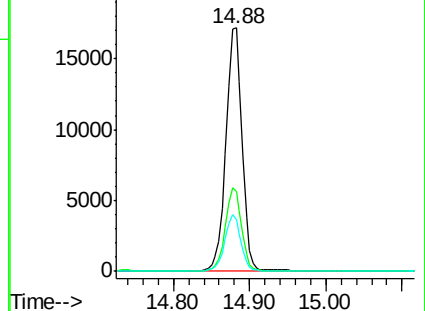
170 21.3 17.4 26.0



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: 0.97 ng

RT: 16.07 min Scan# 2819

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

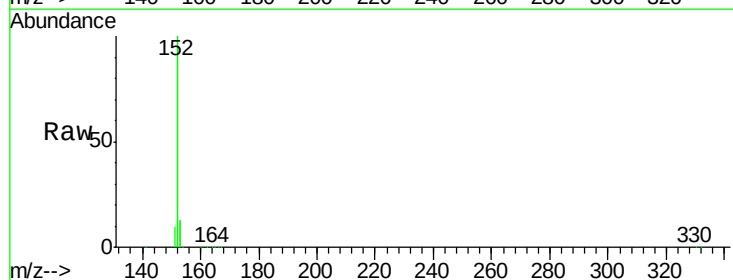
Tgt Ion:152 Resp: 152923

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

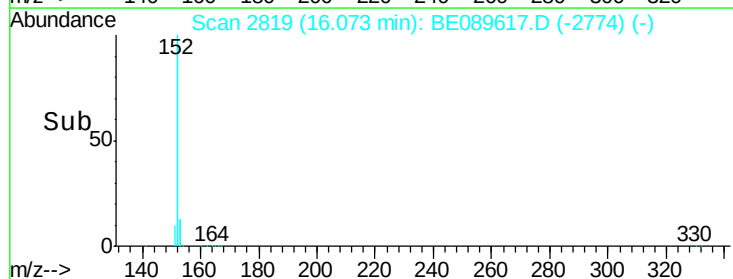
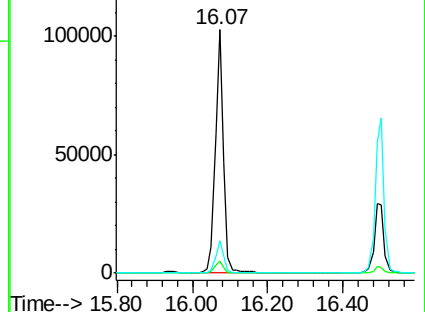
153 12.9 10.5 15.7

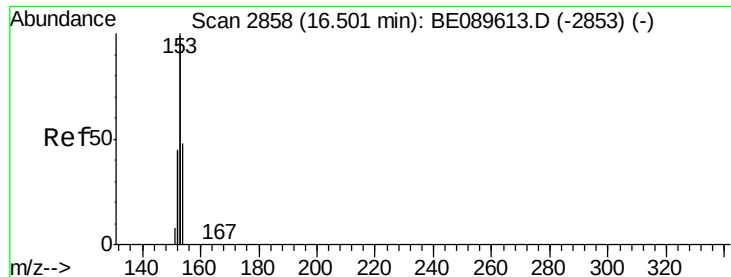


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.95 ng

RT: 16.50 min Scan# 2858

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

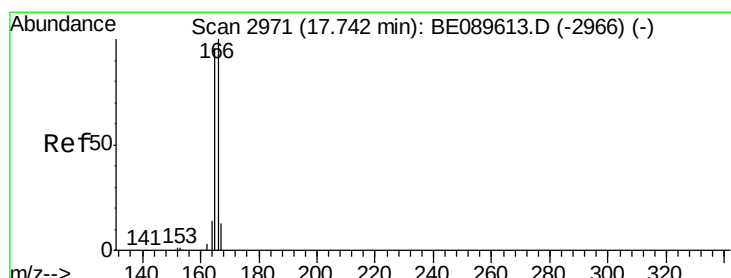
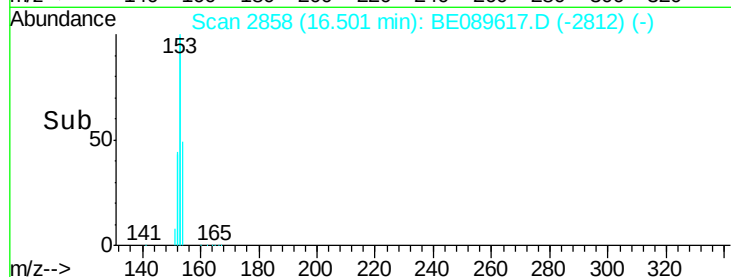
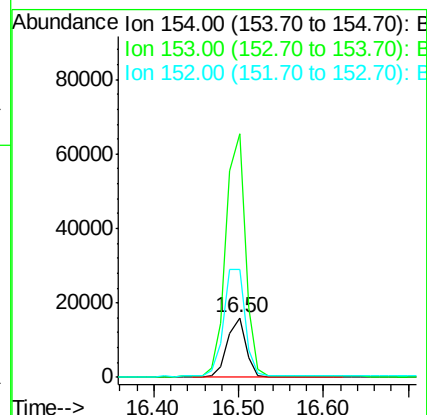
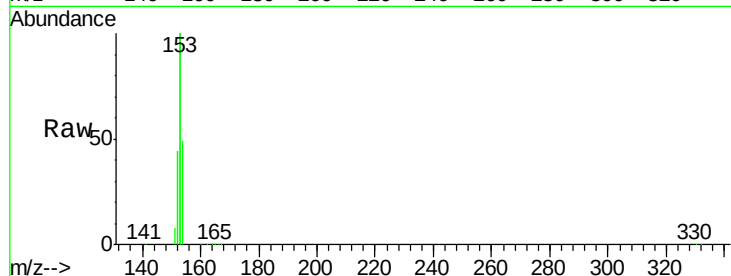
Tgt Ion:154 Resp: 24140

Ion Ratio Lower Upper

154 100

153 435.0 348.9 523.3

152 208.4 166.6 249.8



#12

Fluorene

Concen: 0.96 ng

RT: 17.74 min Scan# 2971

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

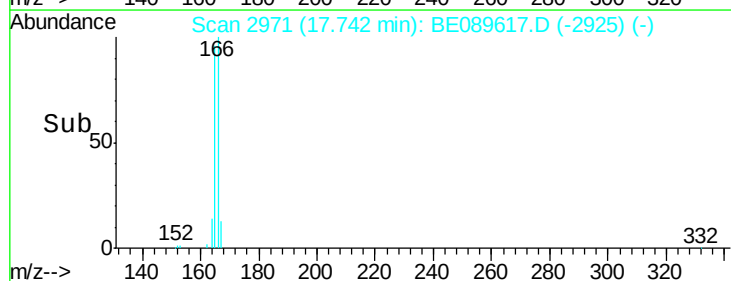
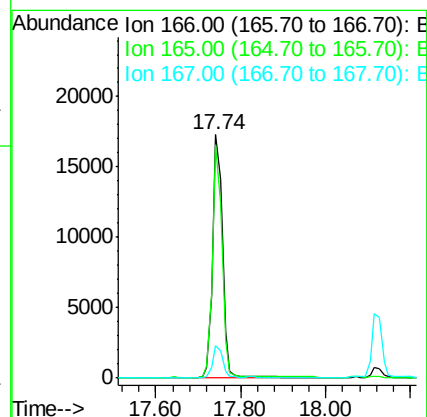
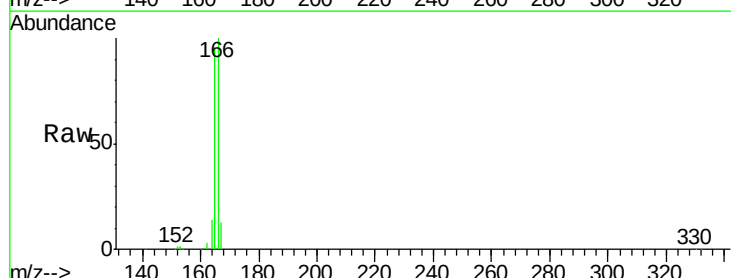
Tgt Ion:166 Resp: 27885

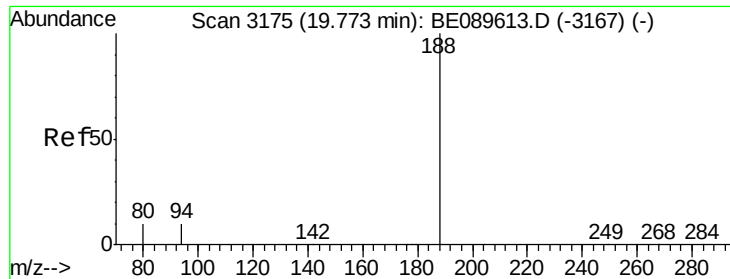
Ion Ratio Lower Upper

166 100

165 92.6 74.7 112.1

167 13.1 10.5 15.7





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

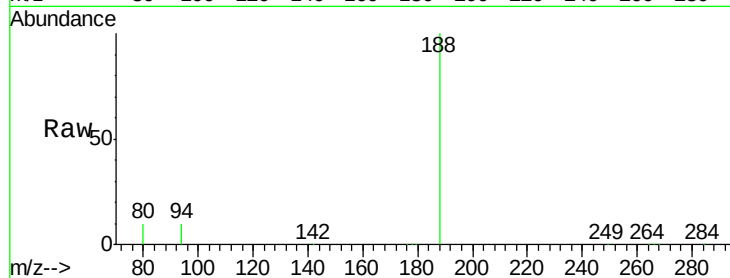
Tgt Ion:188 Resp: 190912

Ion Ratio Lower Upper

188 100

94 10.4 8.2 12.4

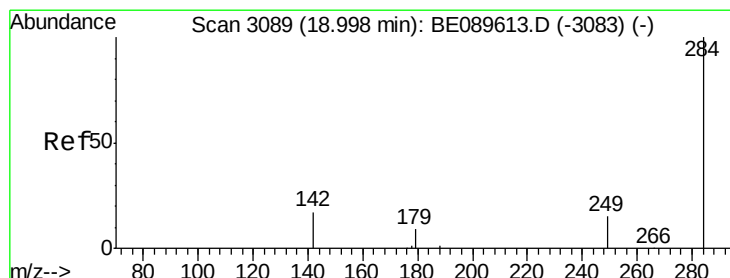
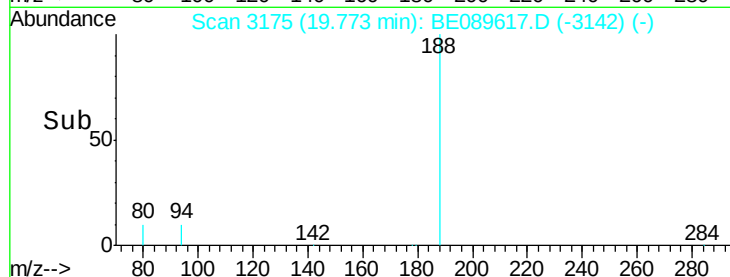
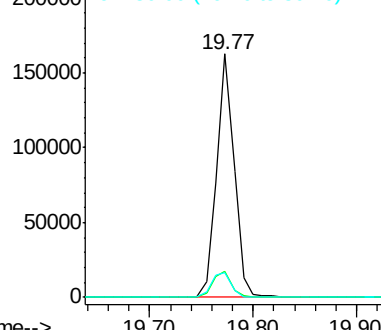
80 10.3 8.1 12.1



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: 0.96 ng

RT: 19.00 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

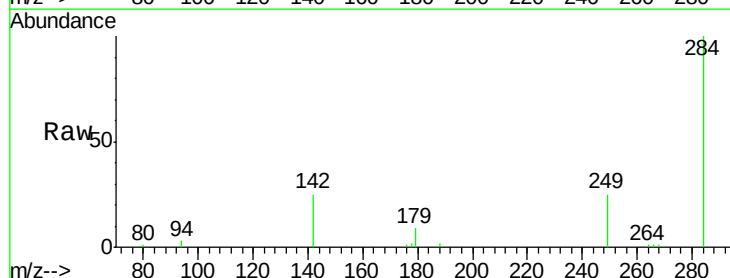
Tgt Ion:284 Resp: 7852

Ion Ratio Lower Upper

284 100

142 39.7 32.3 48.5

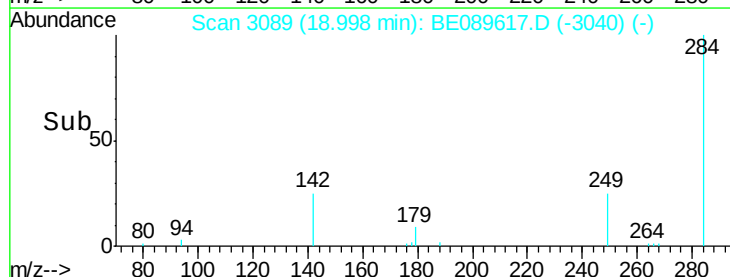
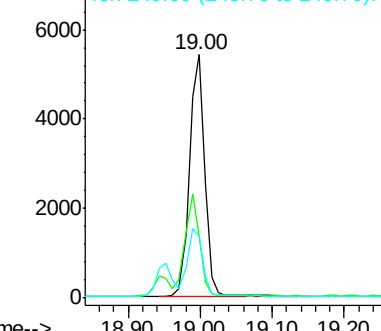
249 27.9 22.3 33.5

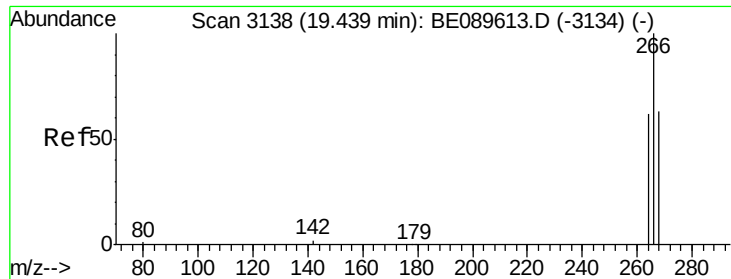


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

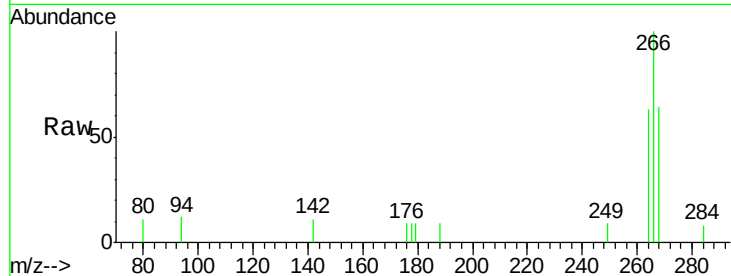




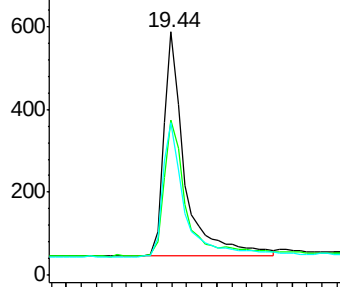
#15
 Pentachlorophenol
 Concen: 0.91 ng
 RT: 19.44 min Scan# 3138
 Delta R.T. 0.00 min
 Lab File: BE089617.D
 Acq: 18 Feb 2015 6:05

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE021815

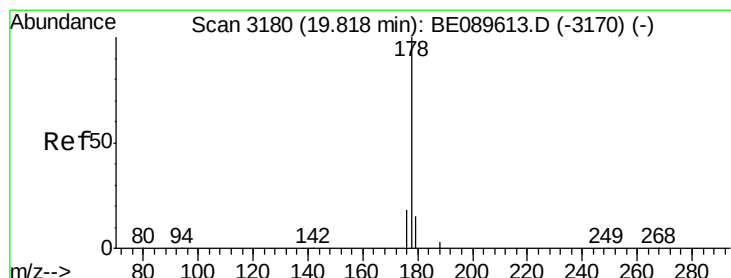
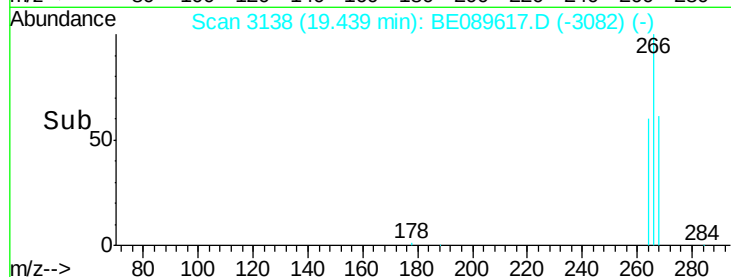
Tgt Ion: 266 Resp: 1047
 Ion Ratio Lower Upper
 266 100
 268 63.9 52.6 79.0
 264 62.7 51.8 77.8



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

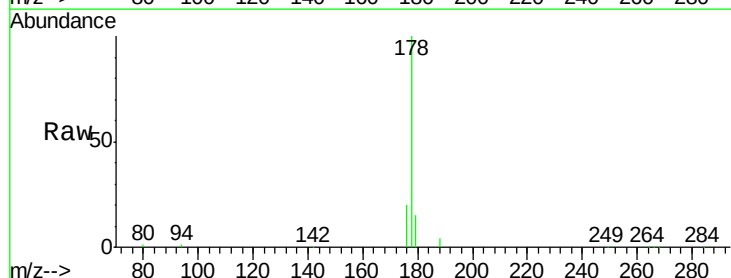


Time--> 19.30 19.40 19.50 19.60

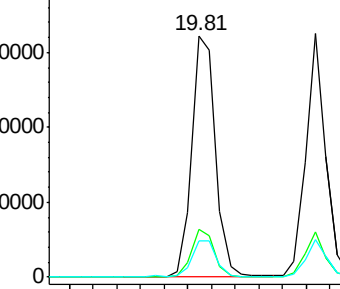


#16
 Phenanthrene
 Concen: 0.95 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. -0.01 min
 Lab File: BE089617.D
 Acq: 18 Feb 2015 6:05

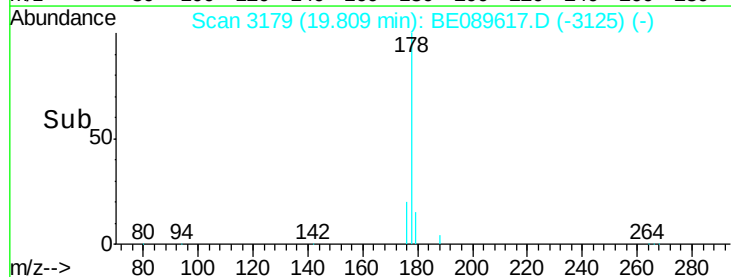
Tgt Ion: 178 Resp: 44675
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.1 22.7
 179 15.6 12.3 18.5

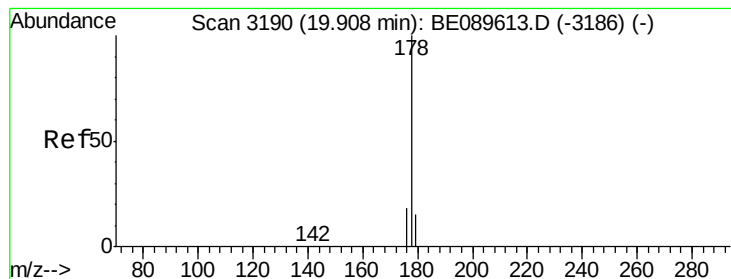


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



Time--> 19.70 19.80 19.90





#17

Anthracene

Concen: 0.97 ng

RT: 19.91 min Scan# 3190

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

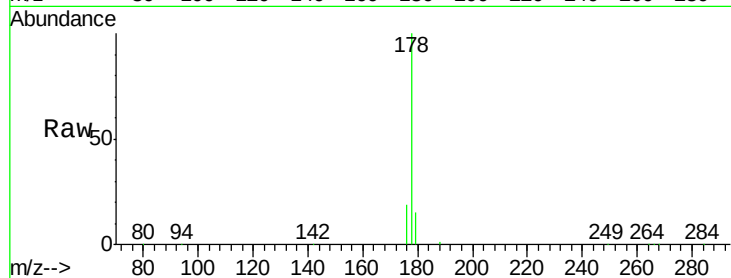
Tgt Ion:178 Resp: 38617

Ion Ratio Lower Upper

178 100

176 18.4 14.6 22.0

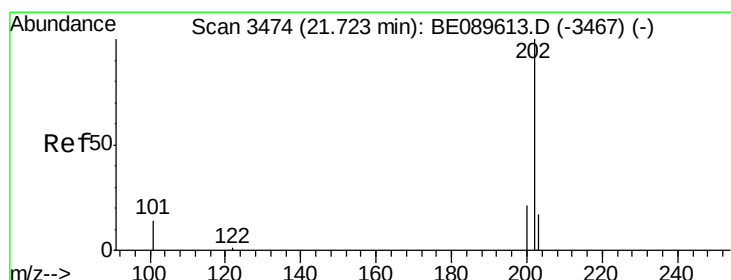
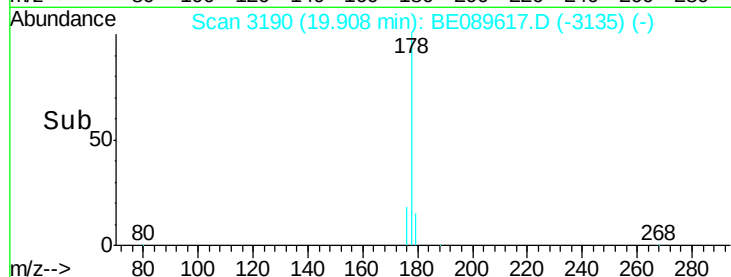
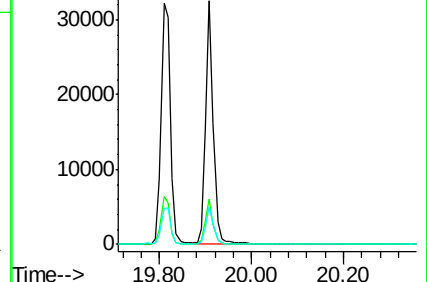
179 15.1 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#18

Fluoranthene

Concen: 0.96 ng

RT: 21.72 min Scan# 3474

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

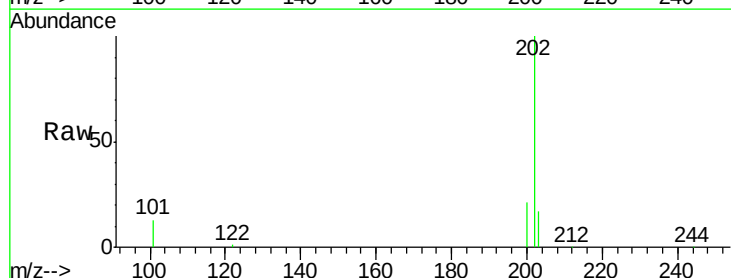
Tgt Ion:202 Resp: 42823

Ion Ratio Lower Upper

202 100

101 12.9 10.4 15.6

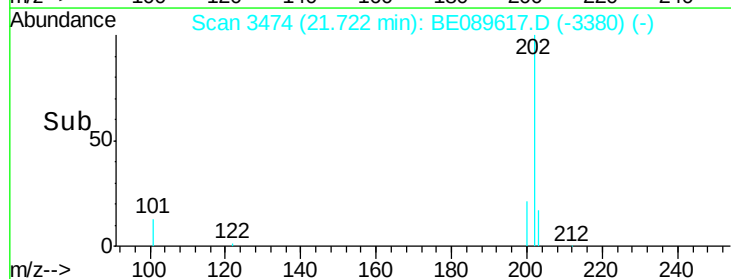
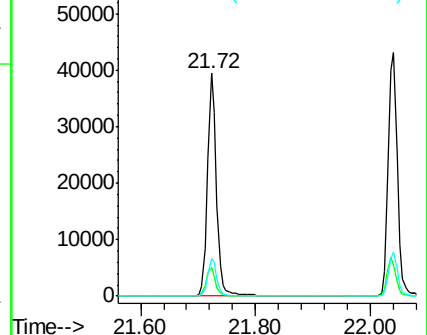
203 17.1 13.9 20.9

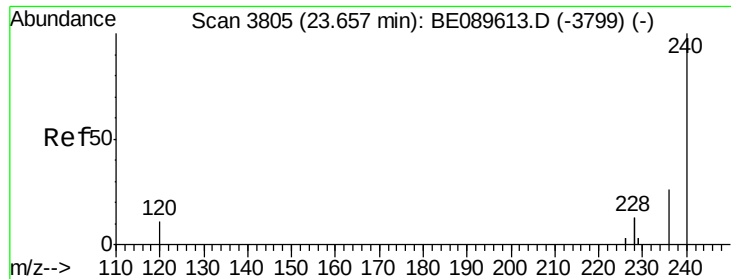


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

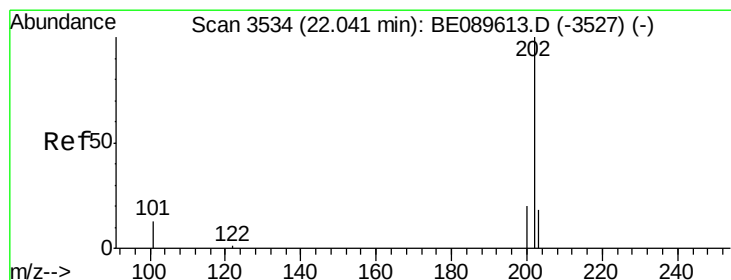
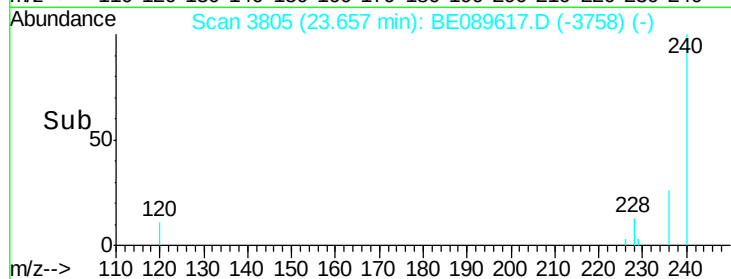
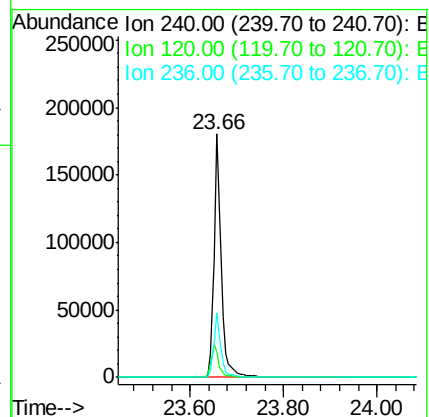
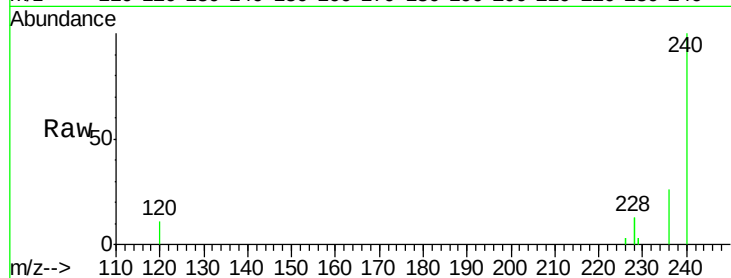
Tgt Ion:240 Resp: 197770

Ion Ratio Lower Upper

240 100

120 10.8 9.0 13.4

236 26.3 21.0 31.6



#20

Pyrene

Concen: 0.96 ng

RT: 22.04 min Scan# 3534

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

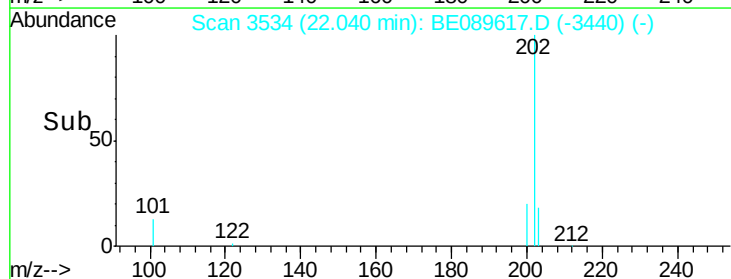
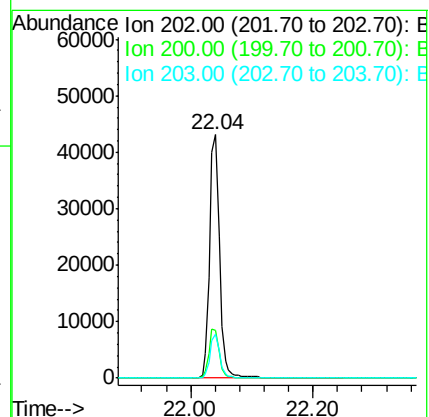
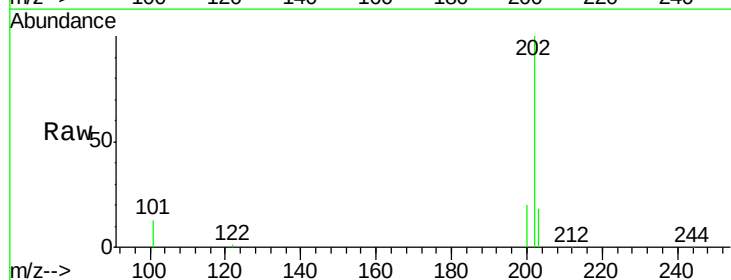
Tgt Ion:202 Resp: 47038

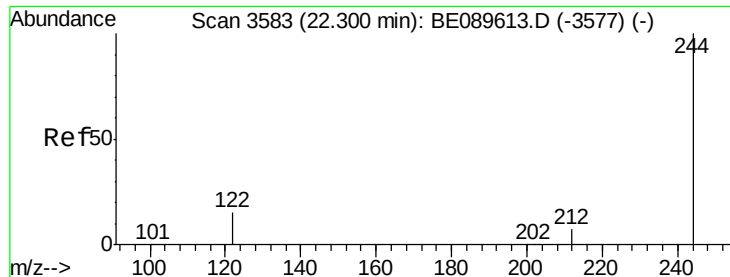
Ion Ratio Lower Upper

202 100

200 20.5 16.3 24.5

203 17.5 13.8 20.8





#21

Terphenyl-d14

Concen: 0.95 ng

RT: 22.30 min Scan# 3583

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

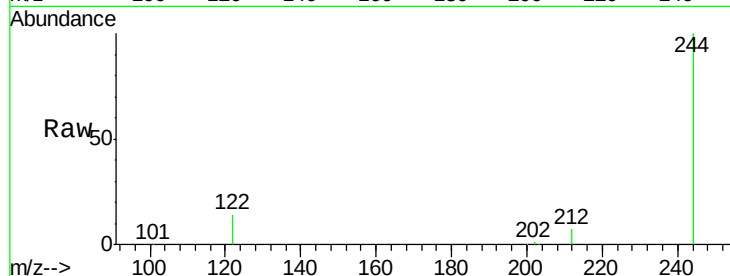
Tgt Ion:244 Resp: 27003

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

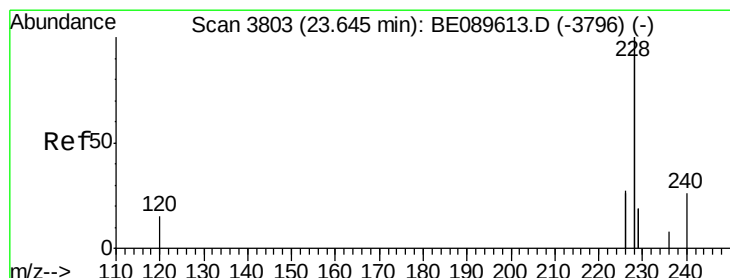
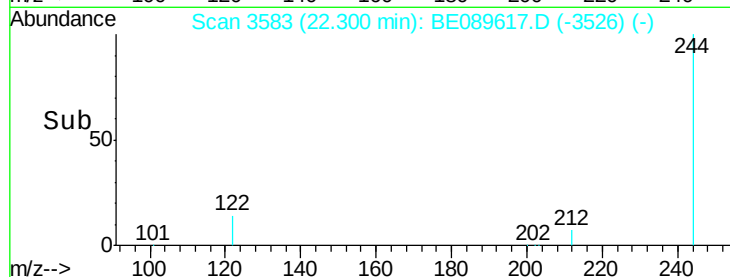
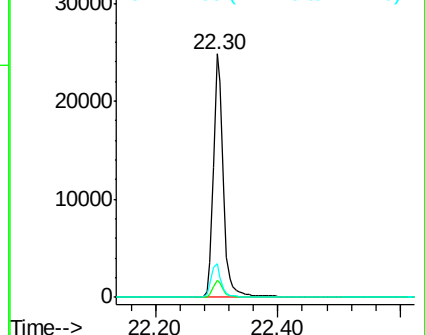
122 14.0 11.8 17.8



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: 0.94 ng

RT: 23.64 min Scan# 3803

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

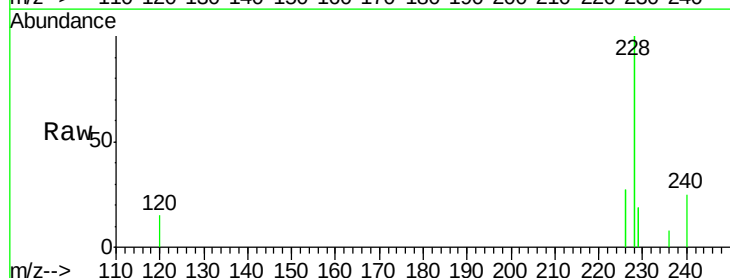
Tgt Ion:228 Resp: 164201

Ion Ratio Lower Upper

228 100

226 27.0 21.2 31.8

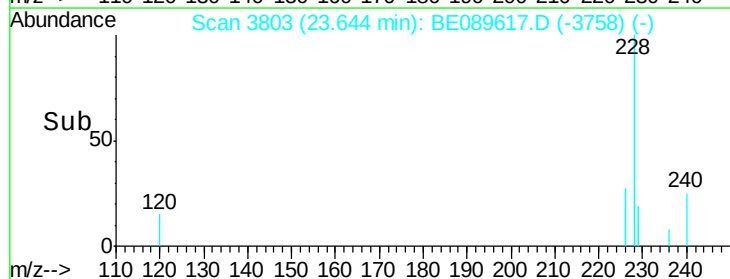
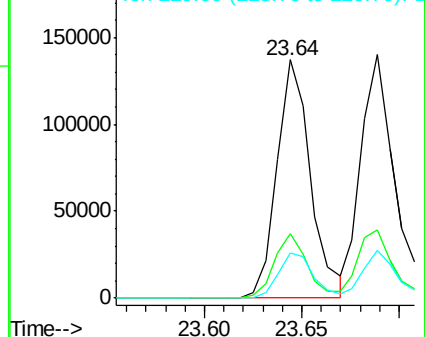
229 18.8 15.2 22.8

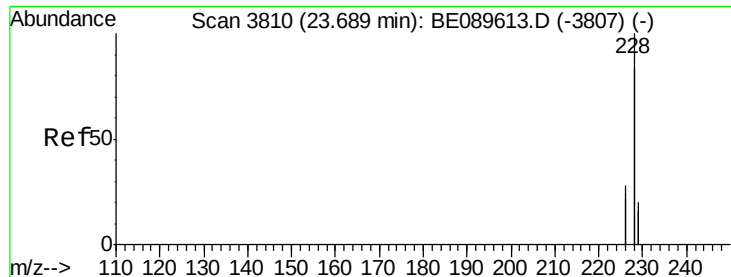


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.96 ng

RT: 23.69 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

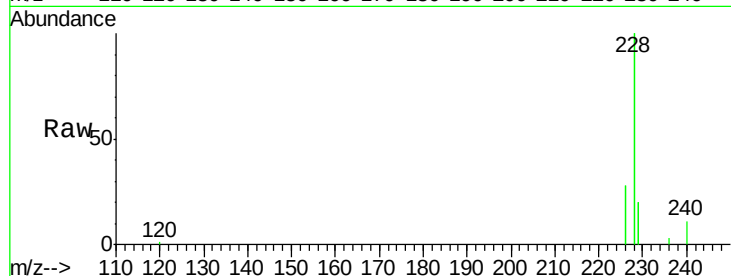
Tgt Ion: 228 Resp: 186633

Ion Ratio Lower Upper

228 100

226 28.0 22.2 33.4

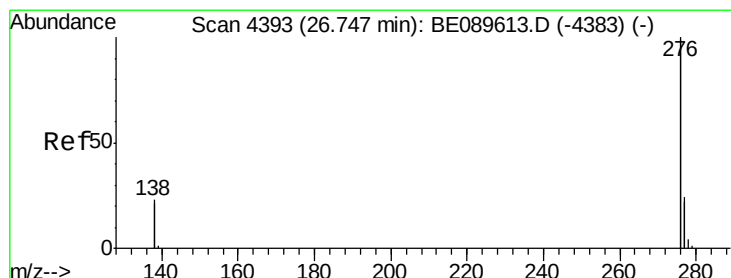
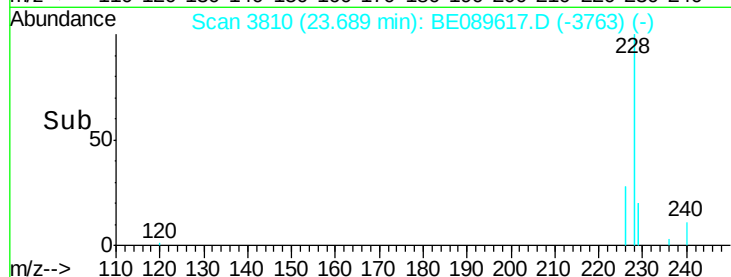
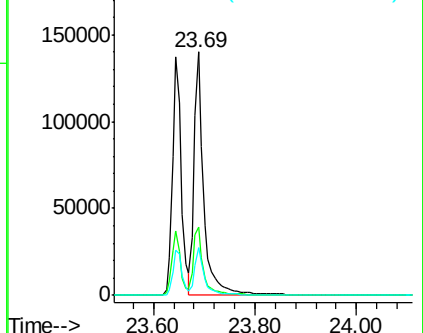
229 19.9 16.0 24.0



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: 0.87 ng

RT: 26.75 min Scan# 4393

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

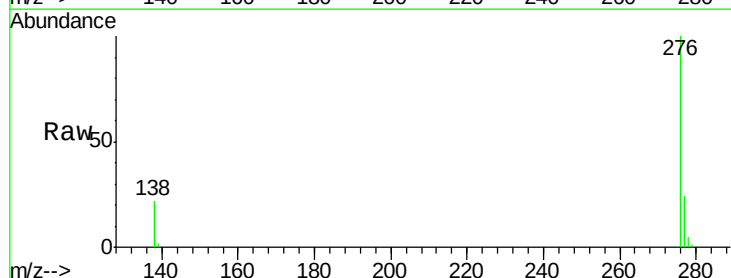
Tgt Ion: 276 Resp: 126349

Ion Ratio Lower Upper

276 100

138 26.4 21.4 32.2

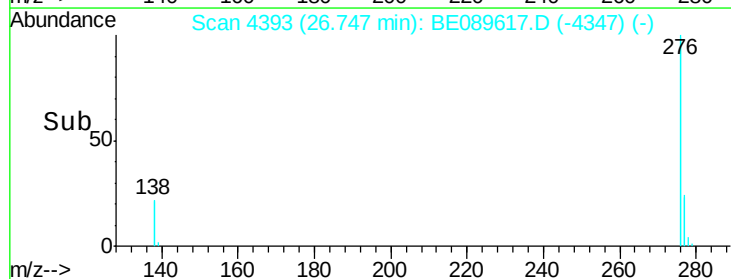
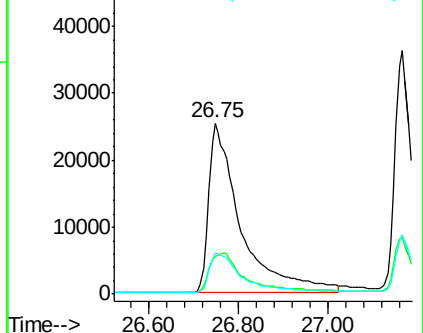
277 25.1 19.9 29.9

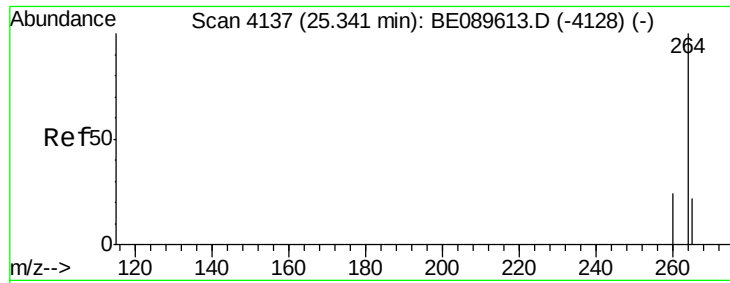


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

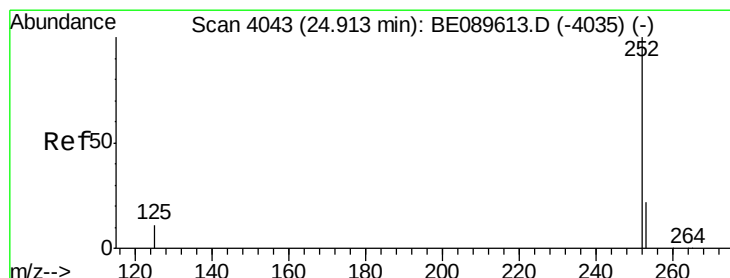
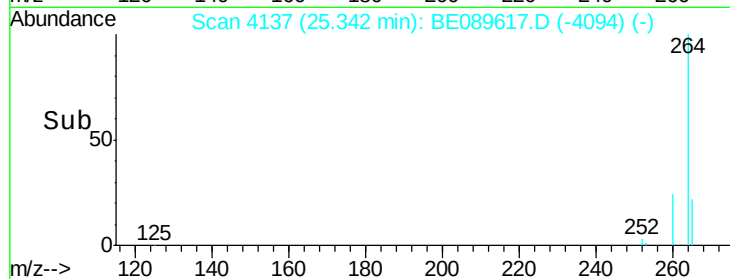
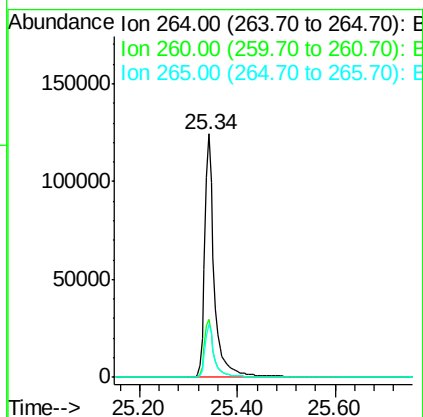
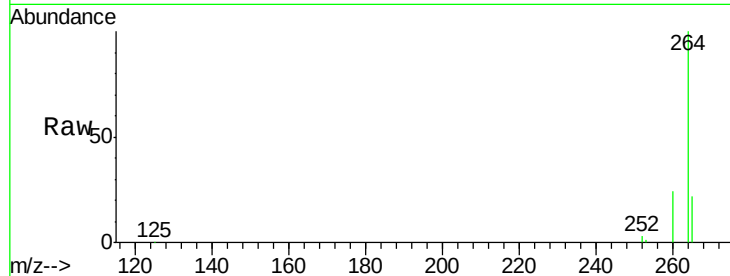




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089617.D
 Acq: 18 Feb 2015 6:05

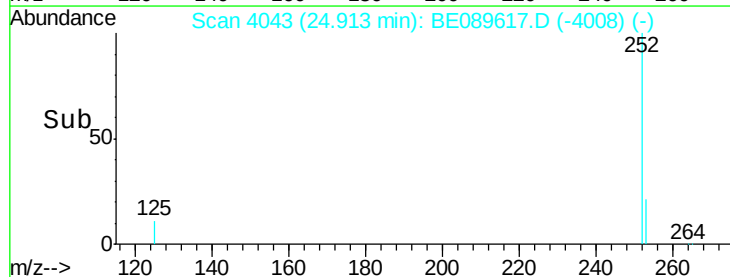
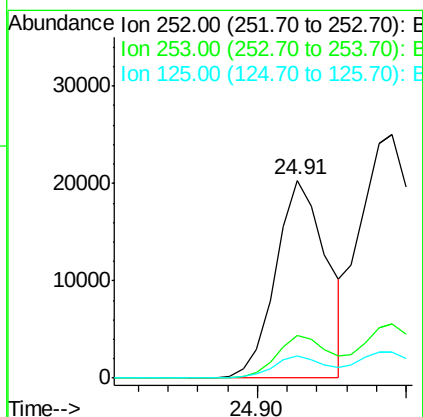
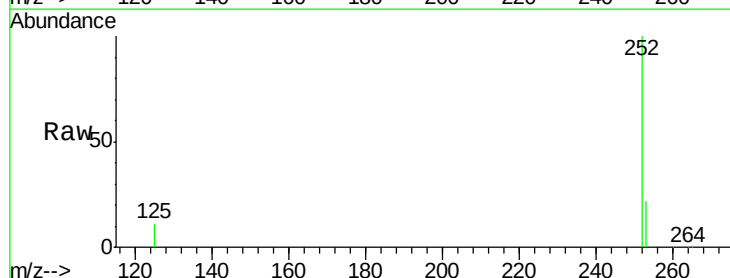
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE021815

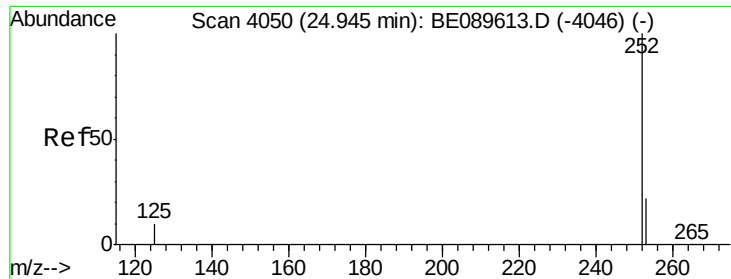
Tgt Ion: 264 Resp: 168476
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.0 28.6
 265 21.7 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.84 ng
 RT: 24.91 min Scan# 4043
 Delta R.T. 0.00 min
 Lab File: BE089617.D
 Acq: 18 Feb 2015 6:05

Tgt Ion: 252 Resp: 24029
 Ion Ratio Lower Upper
 252 100
 253 21.7 17.6 26.4
 125 10.9 8.8 13.2





#27

Benzo(k)fluoranthene

Concen: 1.02 ng

RT: 24.95 min Scan# 4050

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

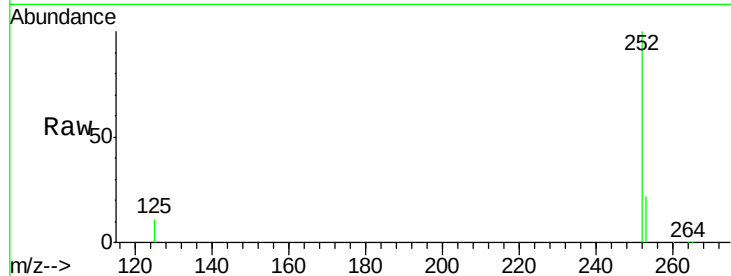
Tgt Ion:252 Resp: 48848

Ion Ratio Lower Upper

252 100

253 22.1 17.7 26.5

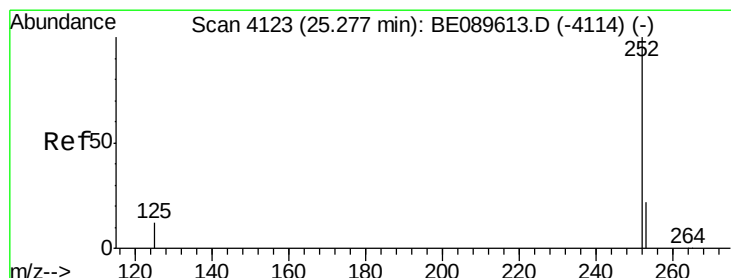
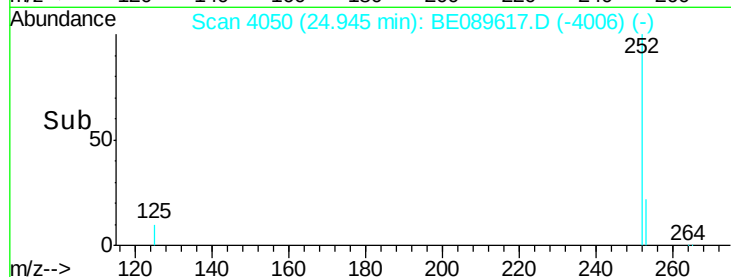
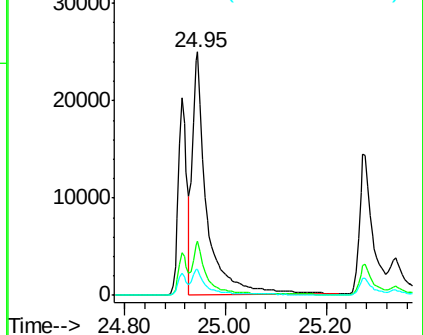
125 10.7 8.8 13.2



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: 0.87 ng

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

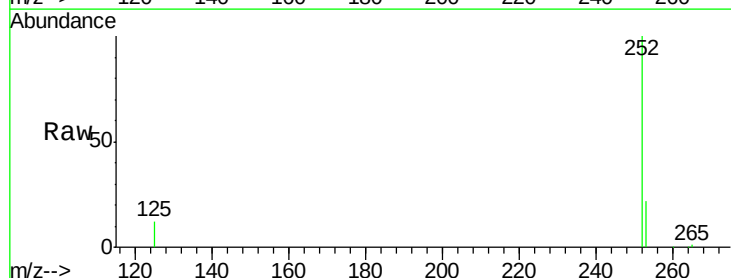
Tgt Ion:252 Resp: 24722

Ion Ratio Lower Upper

252 100

253 21.7 18.1 27.1

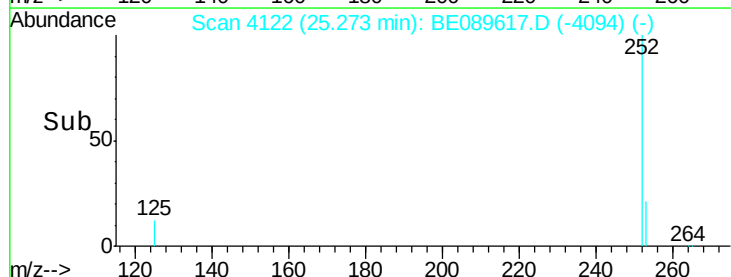
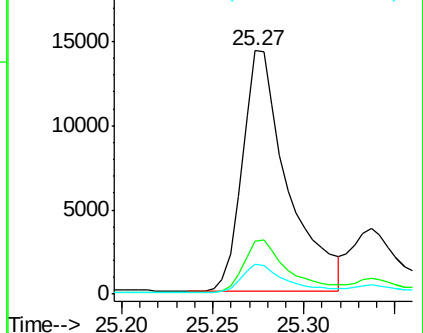
125 12.4 9.6 14.4

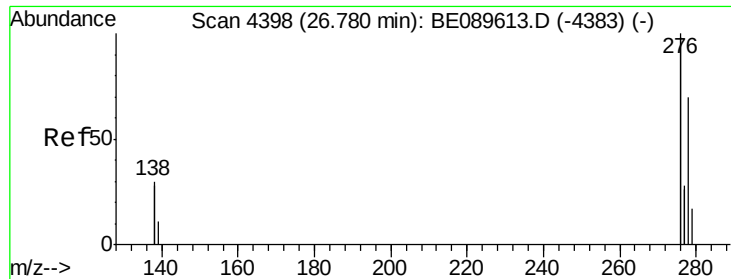


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.87 ng

RT: 26.78 min Scan# 4398

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

Instrument :

BNA_E

ClientSampleId :

ICVBE021815

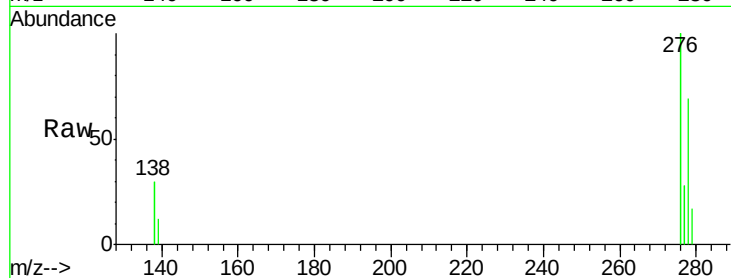
Tgt Ion:278 Resp: 24440

Ion Ratio Lower Upper

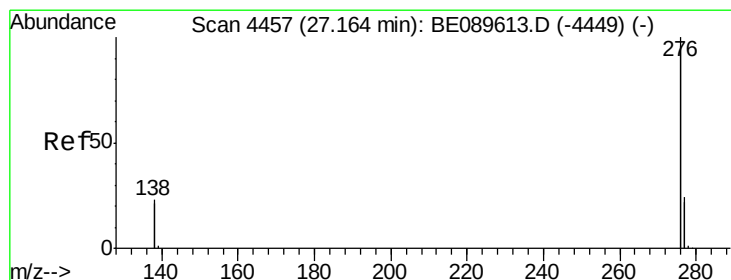
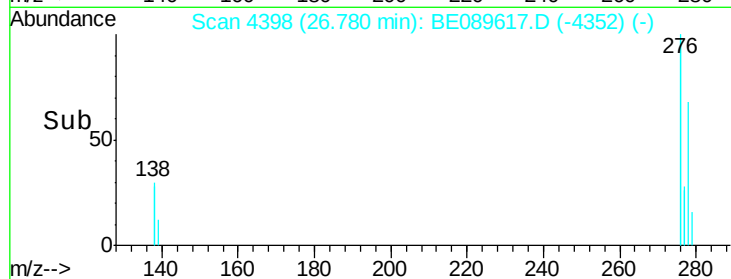
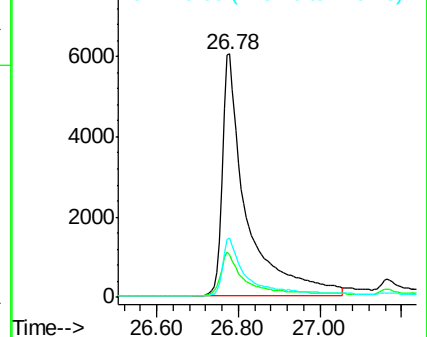
278 100

139 17.6 13.7 20.5

279 24.6 19.7 29.5



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: 0.90 ng

RT: 27.16 min Scan# 4457

Delta R.T. 0.00 min

Lab File: BE089617.D

Acq: 18 Feb 2015 6:05

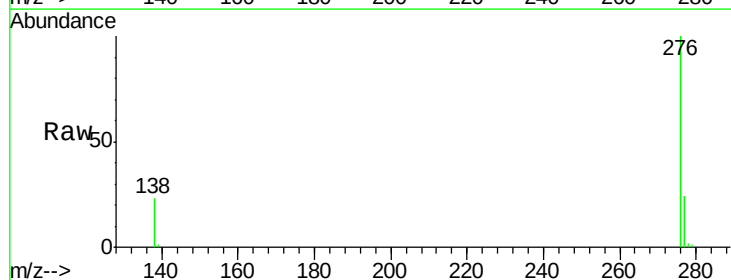
Tgt Ion:276 Resp: 118071

Ion Ratio Lower Upper

276 100

277 24.3 19.1 28.7

138 23.2 18.7 28.1



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

