

Data Path : Z:\HPCHEM1\BNA E\DATA\BE081415\
 Data File : BE090525.D
 Acq On : 14 Aug 2015 17:58
 Operator : UM/IZ
 Sample : G3248-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 CSB-02

Quant Time: Aug 17 04:18:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE081415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 14 16:52:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	21466	5.00	ng	0.00
6) Naphthalene-d8	10.33	136	104984	5.00	ng	0.00
12) Acenaphthene-d10	14.19	164	55594	5.00	ng	0.00
18) Phenanthrene-d10	16.95	188	123203	5.00	ng	0.00
25) Chrysene-d12	21.09	240	127026	5.00	ng	0.00
32) Perylene-d12	23.40	264	117453	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.22	112	13950	2.25	ng	0.00
5) Phenol-d6	6.77	99	28047	3.07	ng	0.00
7) Nitrobenzene-d5	8.72	82	14974	1.79	ng	0.00
13) 2,4,6-Tribromophenol	15.69	330	11241	5.25	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	39081	2.35	ng	0.00
27) Terphenyl-d14	19.55	244	71196	3.06	ng	0.00

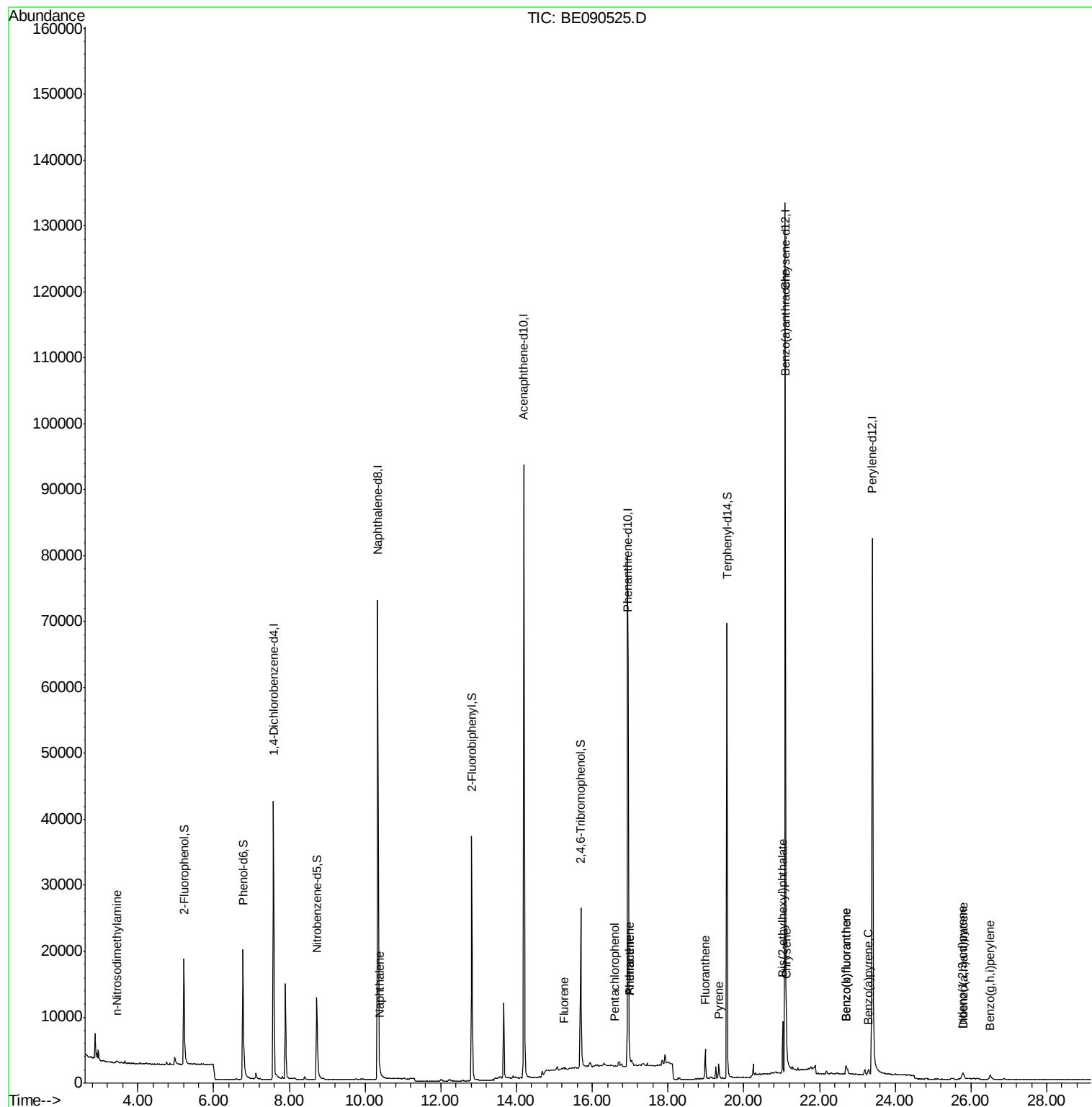
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.31	88	31	Below Cal	#	72
3) n-Nitrosodimethylamine	3.43	42	106	0.03	ng	# 1
9) Naphthalene	10.39	128	520	0.02	ng	# 58
17) Fluorene	15.26	166	385	0.02	ng	# 65
21) Pentachlorophenol	16.60	266	5	0.30	ng	# 66
22) Phenanthrene	16.98	178	3458	0.11	ng	# 97
23) Anthracene	16.98	178	3405	0.11	ng	# 95
24) Fluoranthene	18.98	202	4100	0.12	ng	# 92
26) Pyrene	19.34	202	2016	0.06	ng	# 96
28) Benzo(a)anthracene	21.08	228	1162	0.03	ng	# 76
29) Chrysene	21.13	228	2327	0.07	ng	# 78
30) Bis(2-ethylhexyl)phthalate	21.02	149	7444	0.50	ng	# 99
31) Indeno(1,2,3-cd)pyrene	25.77	276	1712	0.05	ng	# 97
33) Benzo(b)fluoranthene	22.69	252	2193	0.08	ng	# 31
34) Benzo(k)fluoranthene	22.69	252	2193	0.07	ng	# 31
35) Benzo(a)pyrene	23.29	252	1294	0.05	ng	# 10
36) Dibenzo(a,h)anthracene	25.79	278	953	0.04	ng	# 34
37) Benzo(g,h,i)perylene	26.51	276	1589	0.06	ng	# 70

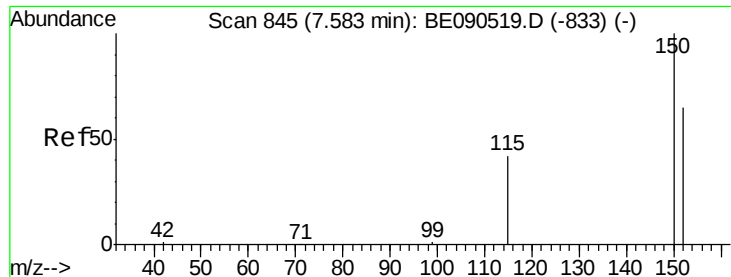
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 844

Delta R.T. -0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

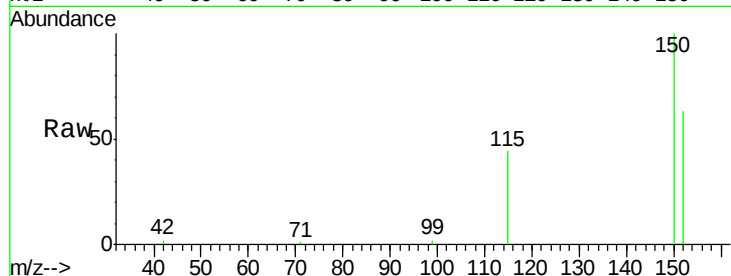
Tot Ion:152 Resp: 21466

Ion Ratio Lower Upper

152 100

150 158.4 123.0 184.4

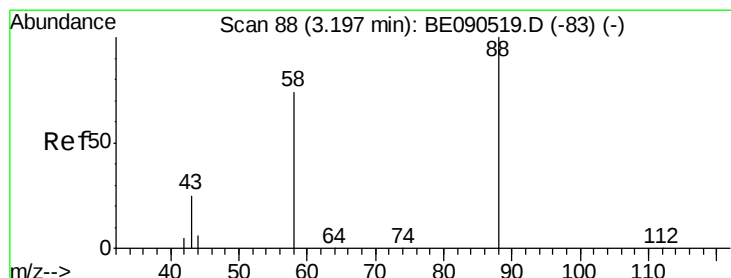
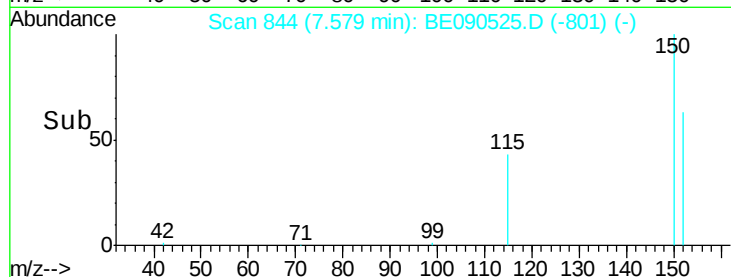
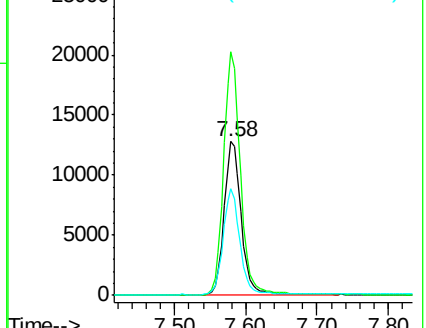
115 69.0 48.9 73.3



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: Below Cal

RT: 3.31 min Scan# 105

Delta R.T. 0.11 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

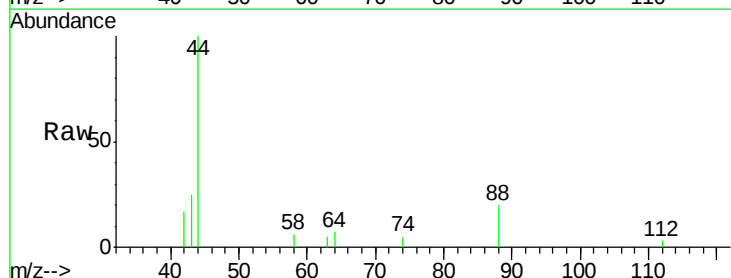
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

58 74.2 70.0 105.0

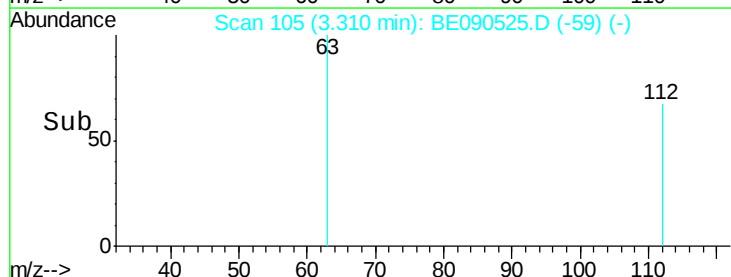
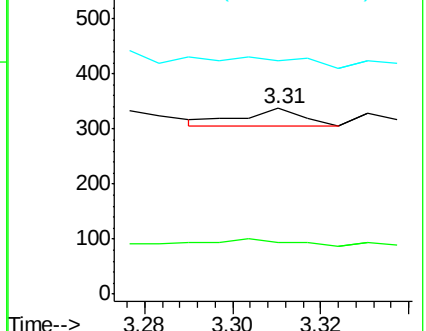
43 0.0 28.4 42.6#

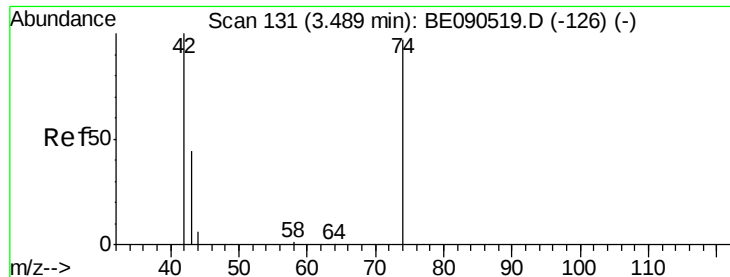


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.03 ng

RT: 3.43 min Scan# 123

Delta R.T. -0.06 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

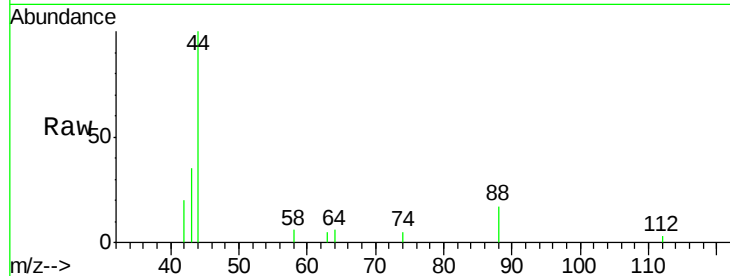
Tot Ion: 42 Resp: 106

Ion Ratio Lower Upper

42 100

74 12.3 75.2 112.8#

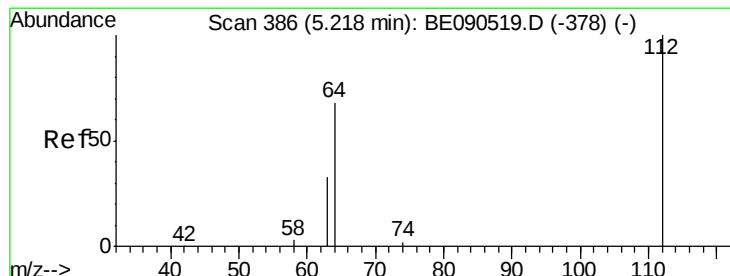
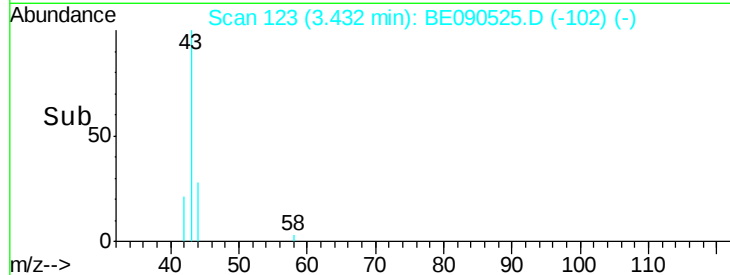
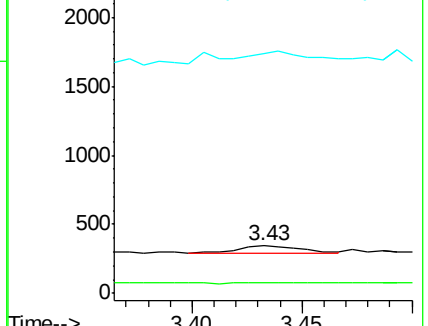
44 158.5 8.7 13.1#



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

2-Fluorophenol

Concen: 2.25 ng

RT: 5.22 min Scan# 386

Delta R.T. -0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

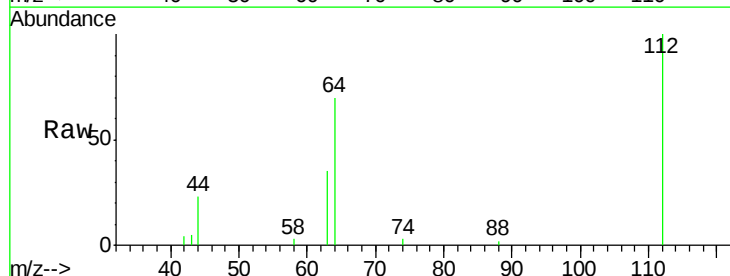
Tgt Ion: 112 Resp: 13950

Ion Ratio Lower Upper

112 100

64 70.5 37.1 55.7#

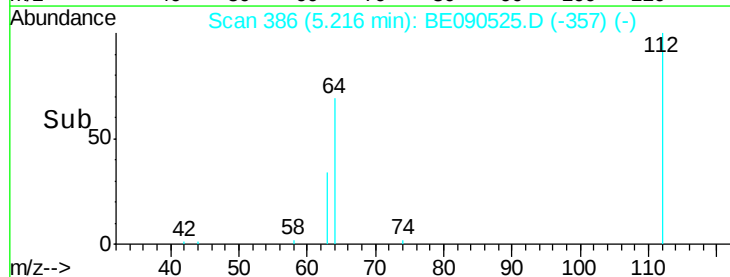
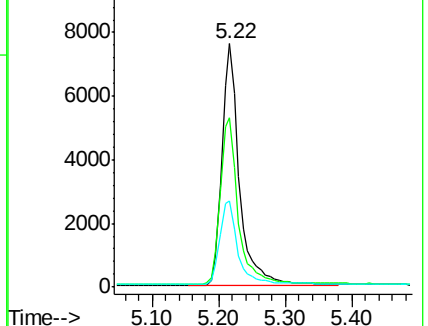
63 36.0 19.5 29.3#

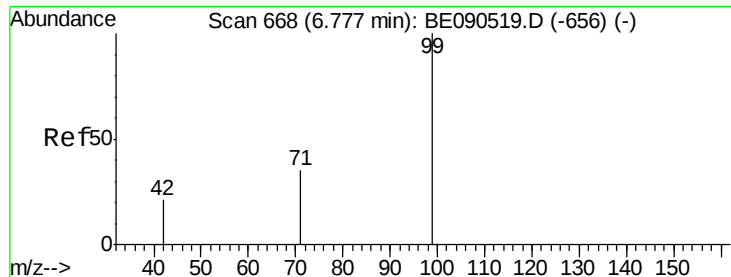


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 3.07 ng

RT: 6.77 min Scan# 667

Delta R.T. -0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

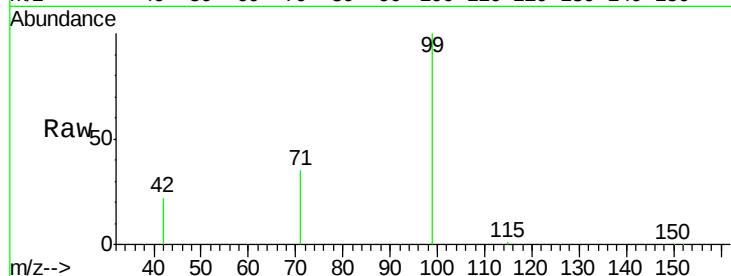
Tot Ion: 99 Resp: 28047

Ion Ratio Lower Upper

99 100

42 20.1 18.2 27.4

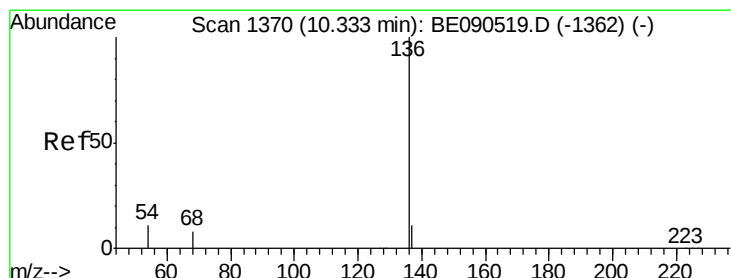
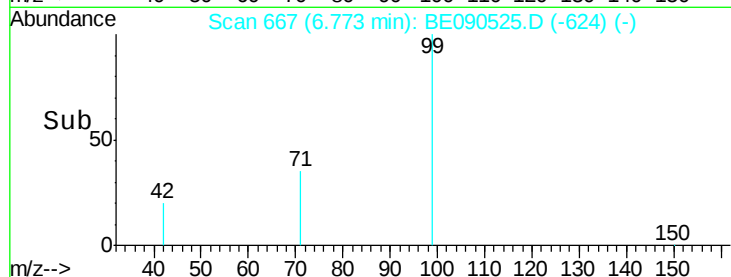
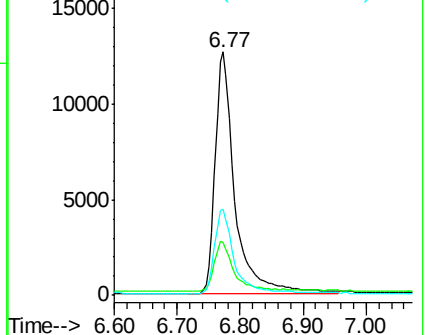
71 35.0 27.4 41.0



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.33 min Scan# 1370

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Tgt Ion: 136 Resp: 104984

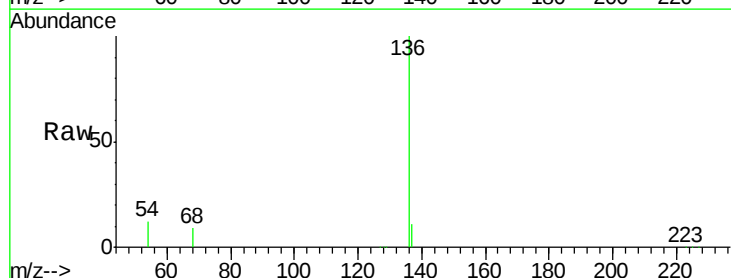
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 11.7 9.4 14.0

68 8.6 6.5 9.7

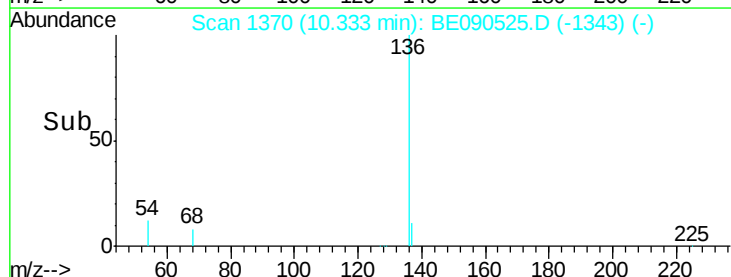
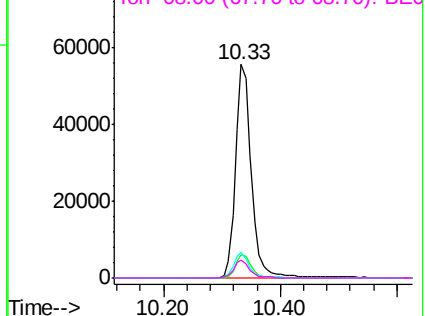


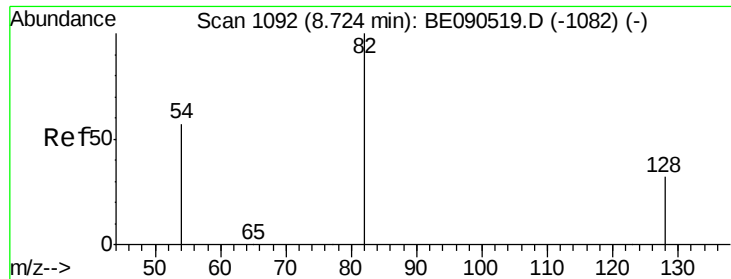
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 1.79 ng

RT: 8.72 min Scan# 1092

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

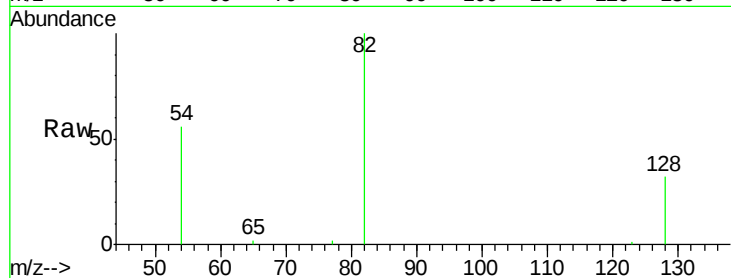
Tot Ion: 82 Resp: 14974

Ion Ratio Lower Upper

82 100

128 32.1 25.0 37.6

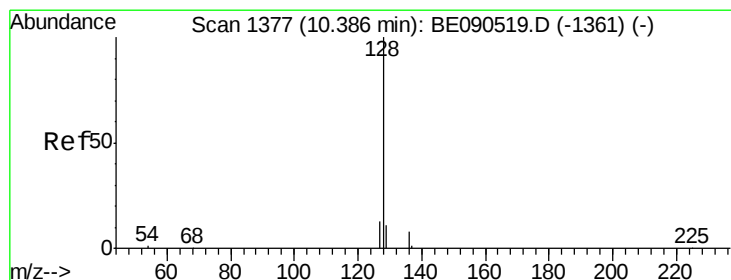
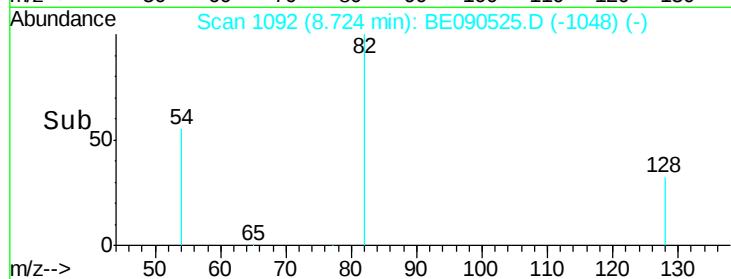
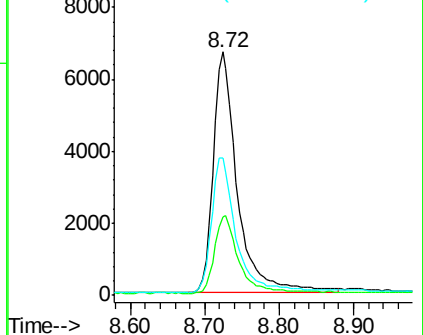
54 56.2 48.8 73.2



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



#9

Naphthalene

Concen: 0.02 ng

RT: 10.39 min Scan# 1377

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

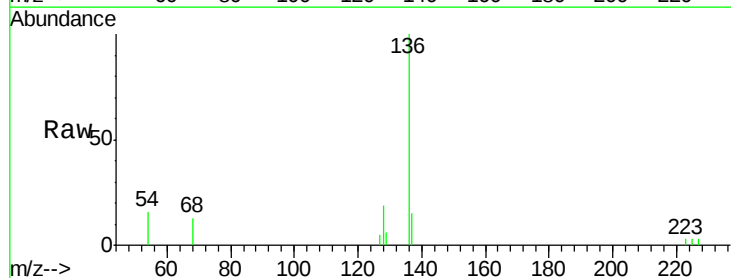
Tgt Ion: 128 Resp: 520

Ion Ratio Lower Upper

128 100

129 30.7 9.8 14.6#

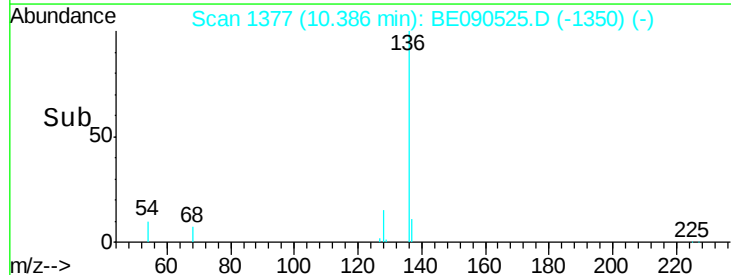
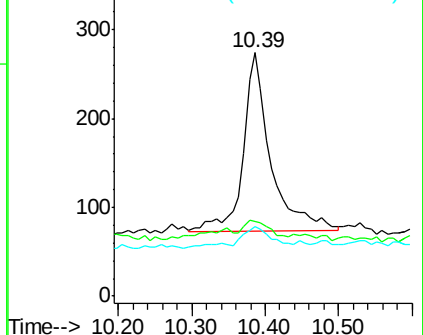
127 28.5 10.6 16.0#

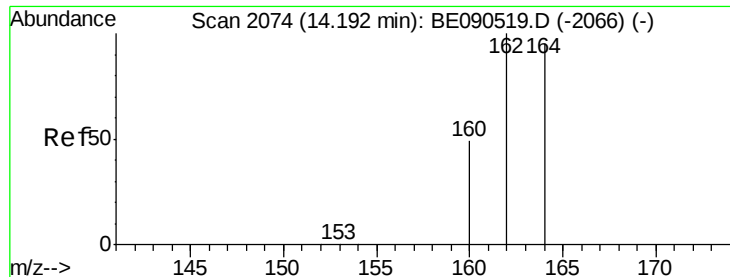


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.19 min Scan# 2074

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampled :

CSB-02

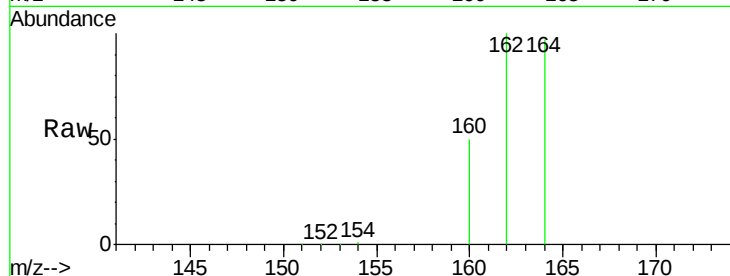
Tot Ion:164 Resp: 55594

Ion Ratio Lower Upper

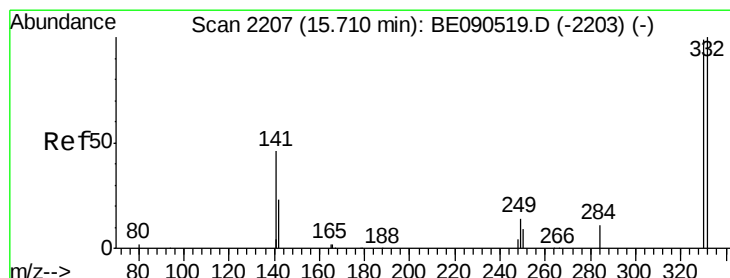
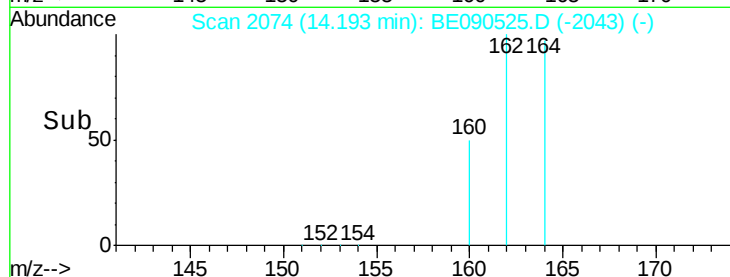
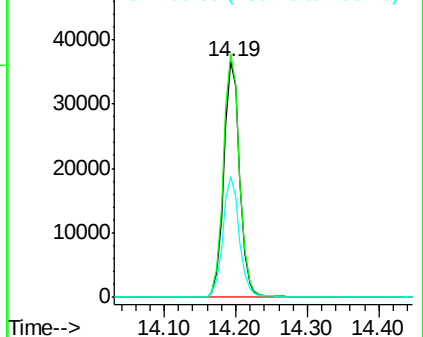
164 100

162 103.4 81.8 122.8

160 51.4 44.2 66.4



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



#13

2,4,6-Tribromophenol

Concen: 5.25 ng

RT: 15.69 min Scan# 2206

Delta R.T. -0.02 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

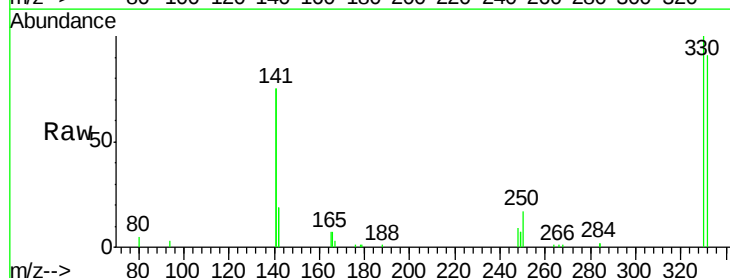
Tgt Ion:330 Resp: 11241

Ion Ratio Lower Upper

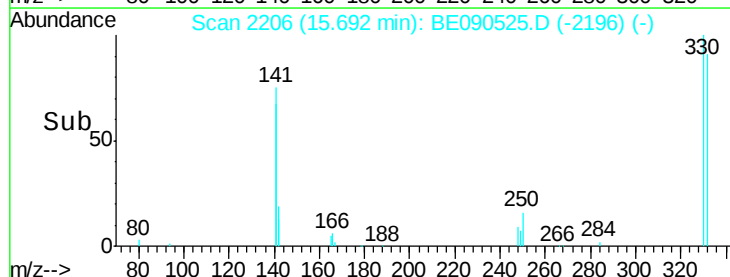
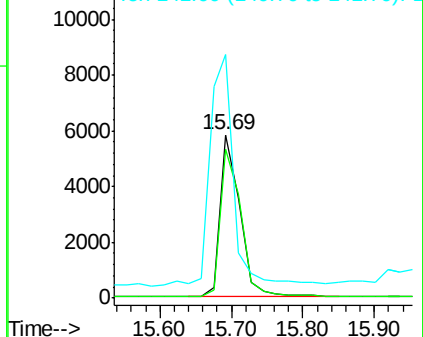
330 100

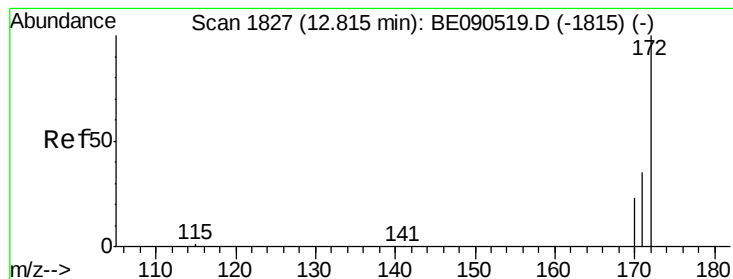
332 95.5 75.8 113.6

141 171.1 114.4 171.6



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 2.35 ng

RT: 12.82 min Scan# 1827

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

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CSB-02

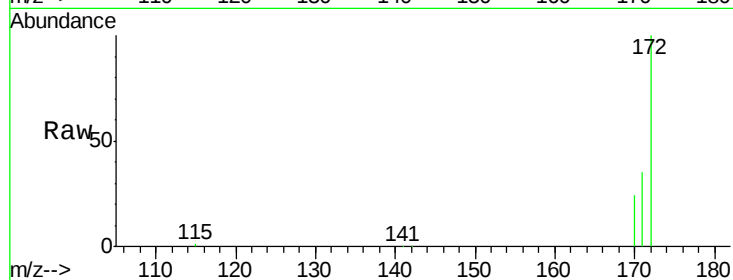
Tot Ion:172 Resp: 39081

Ion Ratio Lower Upper

172 100

171 35.2 28.5 42.7

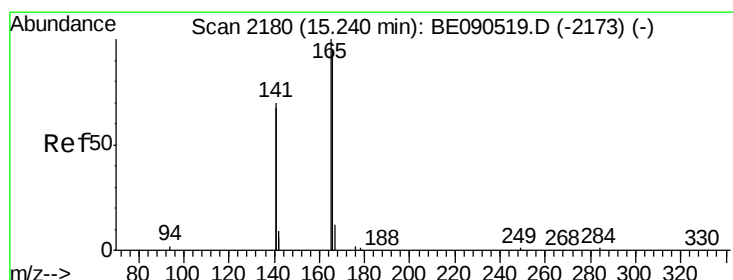
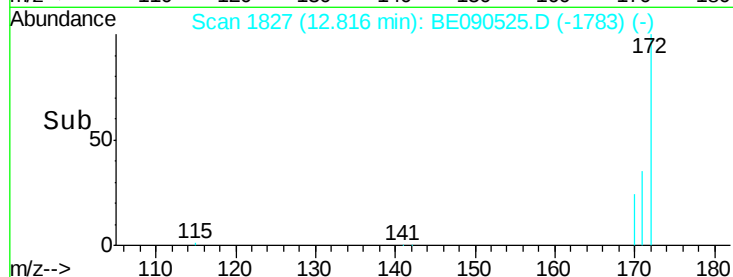
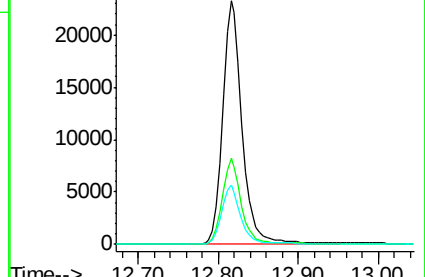
170 24.2 19.8 29.8



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



#17

Fluorene

Concen: 0.02 ng

RT: 15.26 min Scan# 2181

Delta R.T. 0.02 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

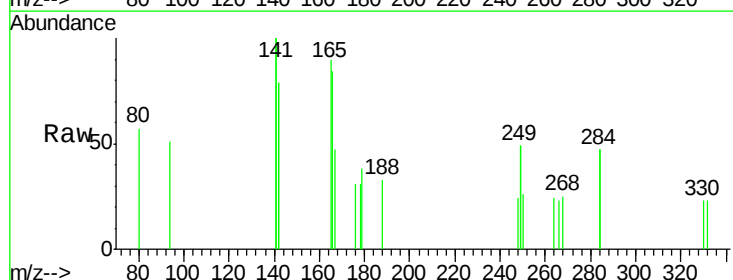
Tgt Ion:166 Resp: 385

Ion Ratio Lower Upper

166 100

165 137.1 81.5 122.3#

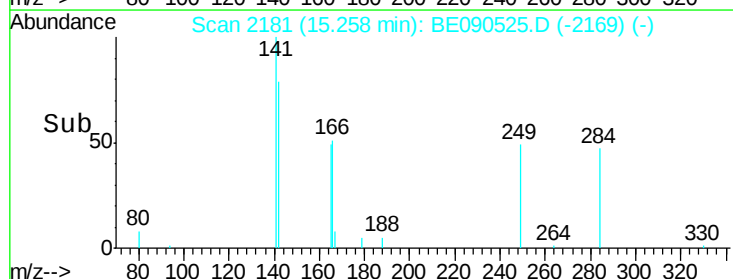
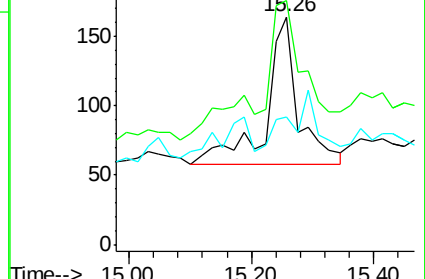
167 0.0 11.4 17.0#

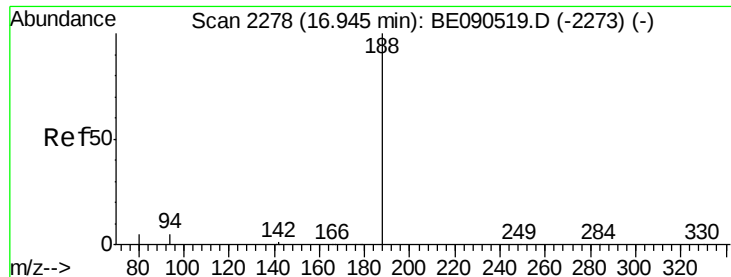


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.95 min Scan# 2278

Delta R.T. -0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

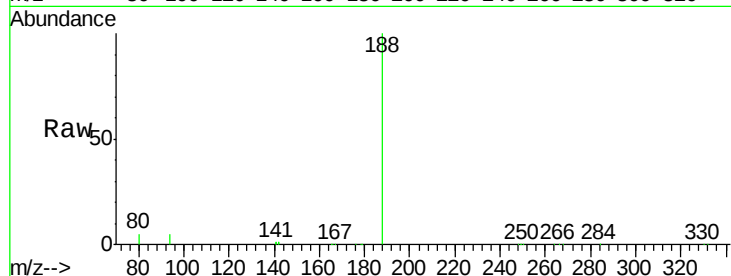
Tot Ion:188 Resp: 123203

Ion Ratio Lower Upper

188 100

94 4.6 5.7 8.5#

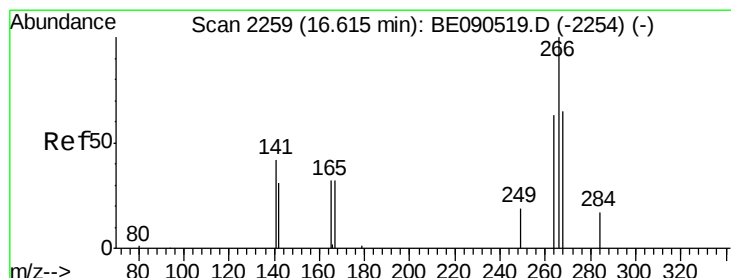
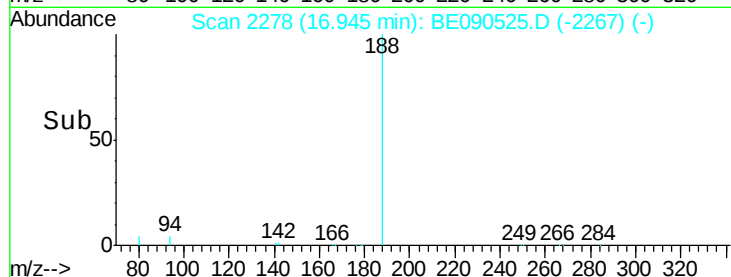
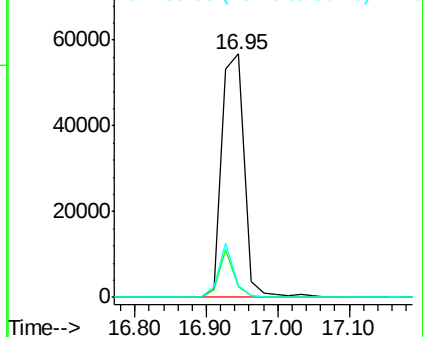
80 4.7 5.8 8.8#



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



#21

Pentachlorophenol

Concen: 0.30 ng

RT: 16.60 min Scan# 2258

Delta R.T. -0.02 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

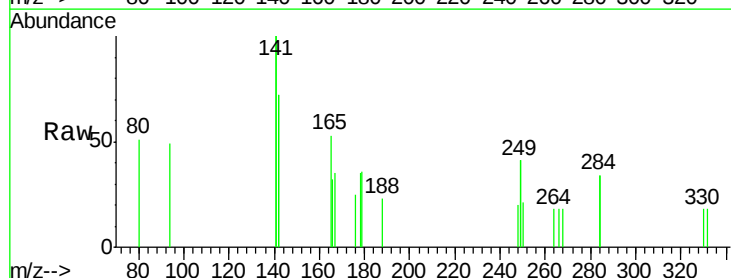
Tgt Ion:266 Resp: 5

Ion Ratio Lower Upper

266 100

268 100.0 58.5 87.7#

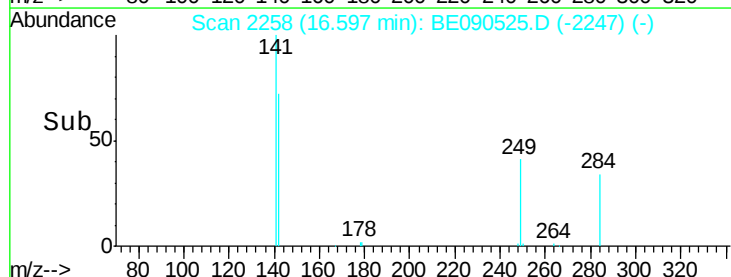
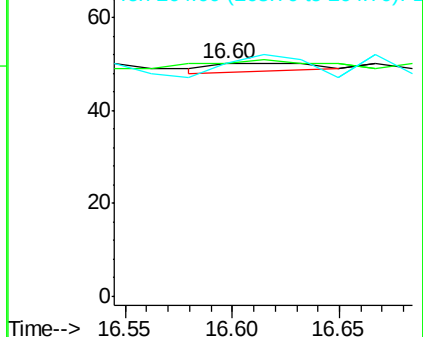
264 100.0 56.0 84.0#

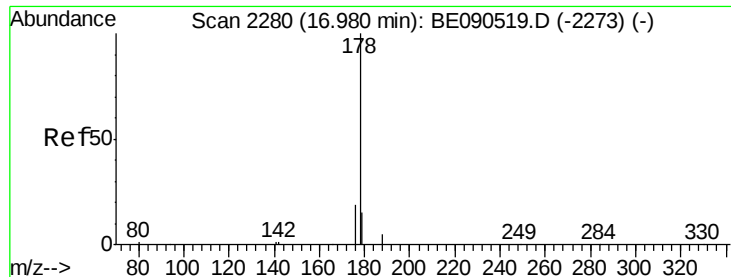


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 0.11 ng

RT: 16.98 min Scan# 2280

Delta R.T. -0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

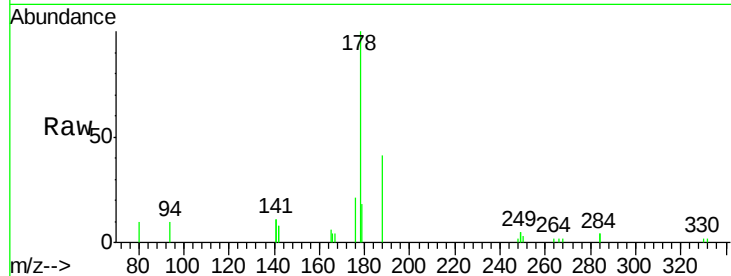
Tot Ion:178 Resp: 3458

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

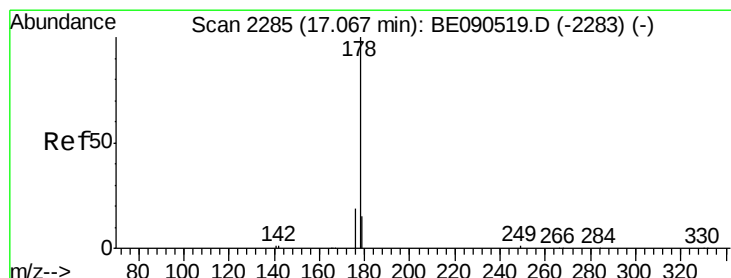
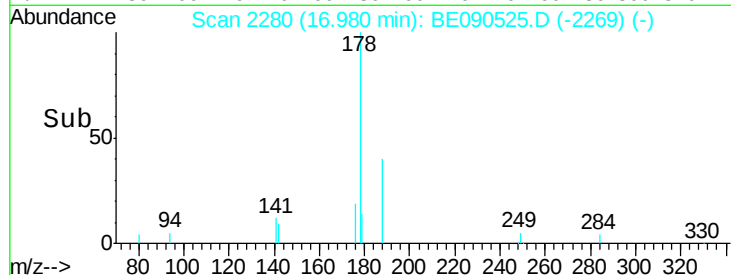
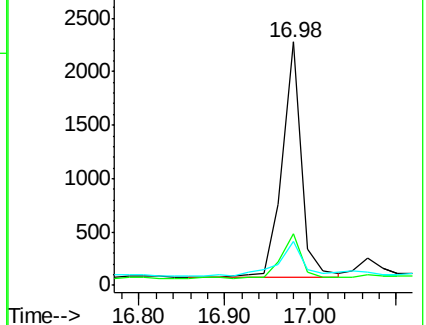
179 18.2 12.5 18.7



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



#23

Anthracene

Concen: 0.11 ng

RT: 16.98 min Scan# 2280

Delta R.T. -0.09 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

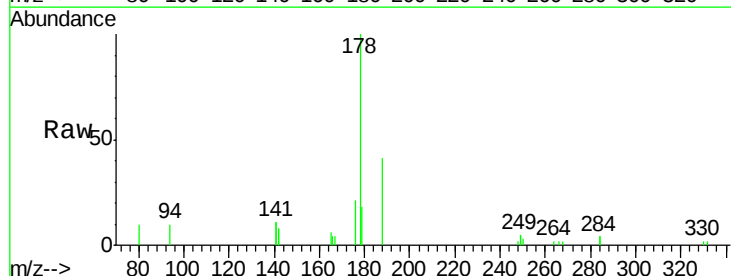
Tgt Ion:178 Resp: 3405

Ion Ratio Lower Upper

178 100

176 19.8 14.9 22.3

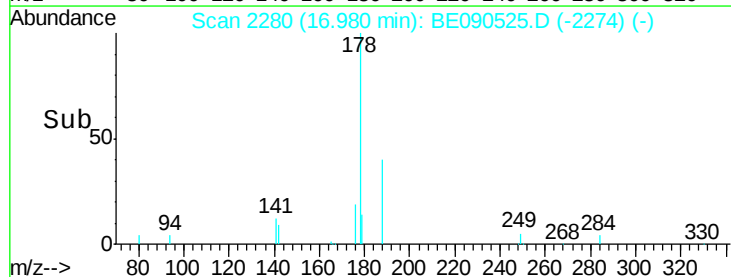
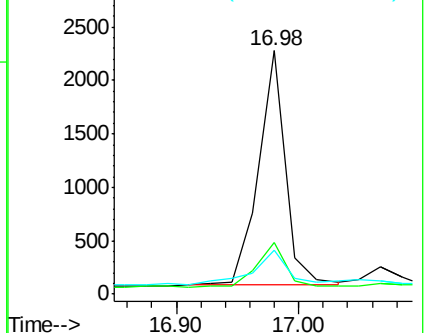
179 18.2 12.2 18.4

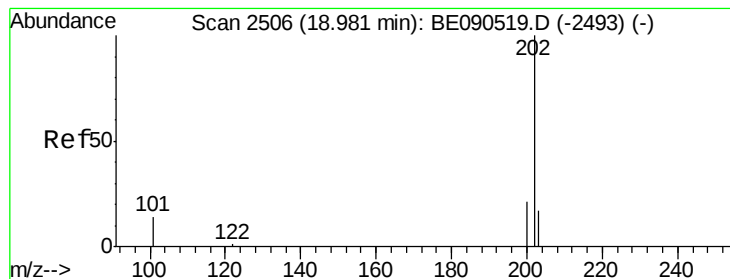


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene

Concen: 0.12 ng

RT: 18.98 min Scan# 2506

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

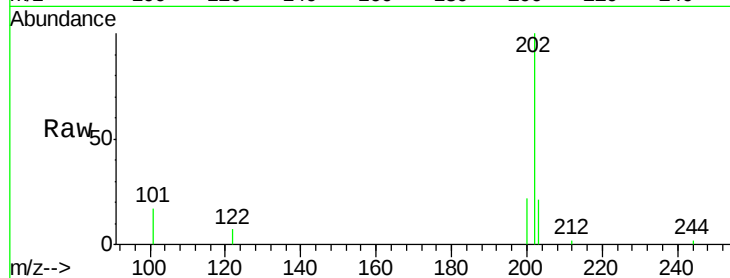
Tot Ion:202 Resp: 4100

Ion Ratio Lower Upper

202 100

101 19.0 10.3 15.5#

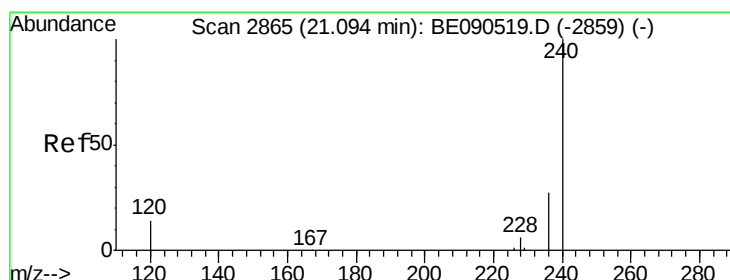
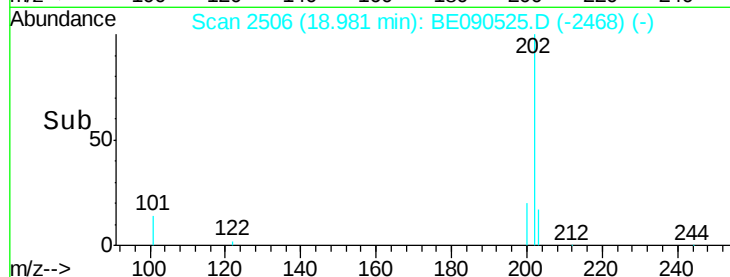
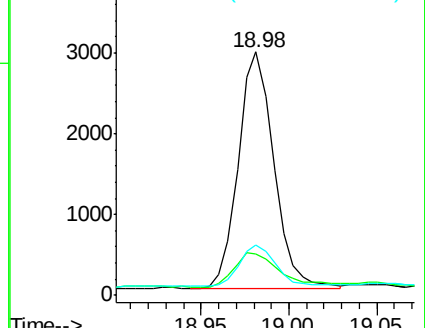
203 17.9 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2865

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

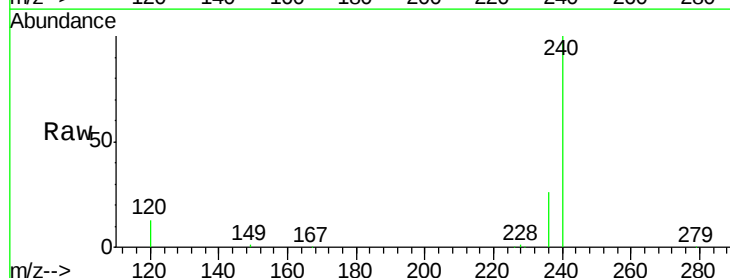
Tgt Ion:240 Resp: 127026

Ion Ratio Lower Upper

240 100

120 12.7 8.3 12.5#

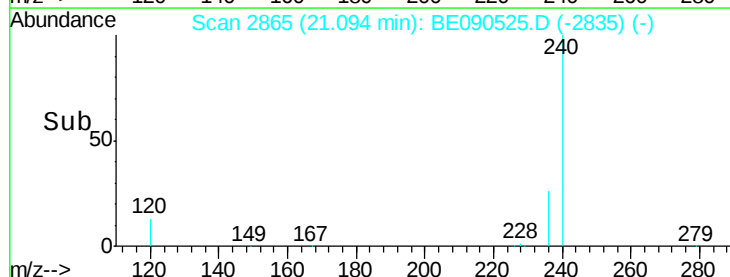
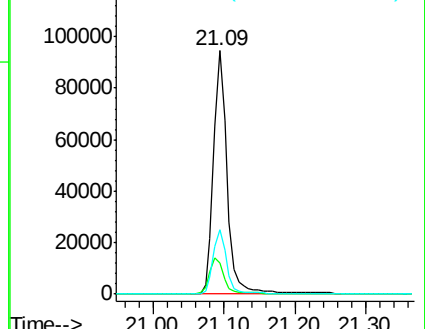
236 26.3 21.0 31.4

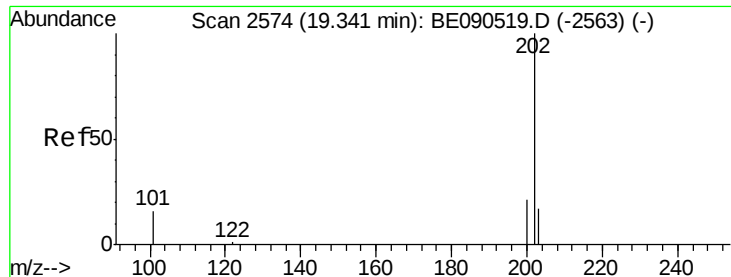


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

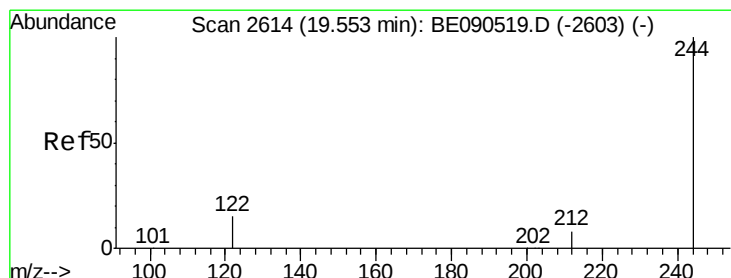
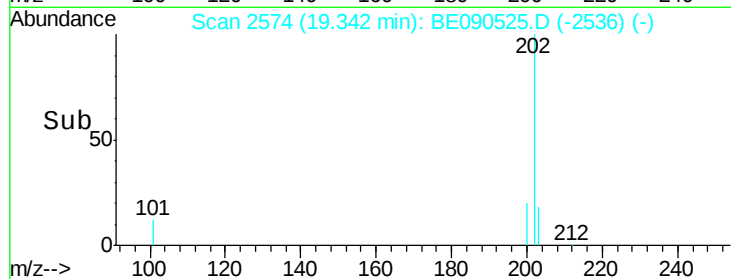
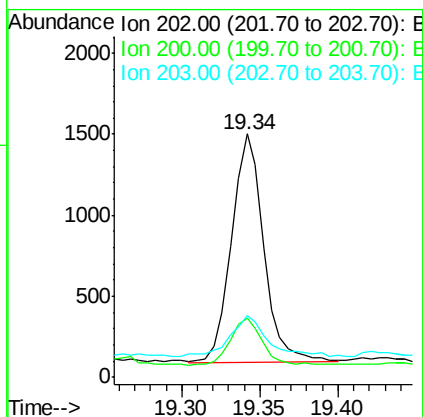
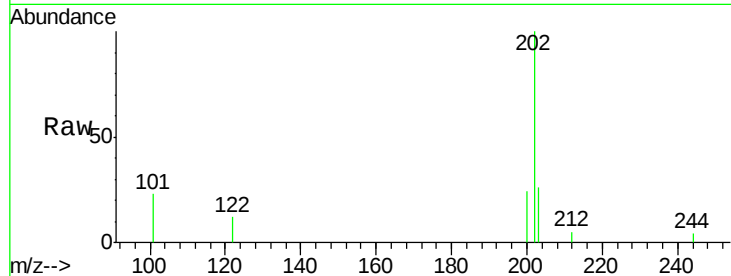




#26
Pvrene
Concen: 0.06 ng
RT: 19.34 min Scan# 2574
Delta R.T. 0.00 min
Lab File: BE090525.D
Acq: 14 Aug 2015 17:58

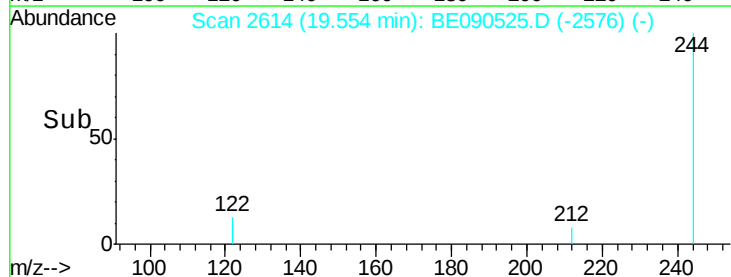
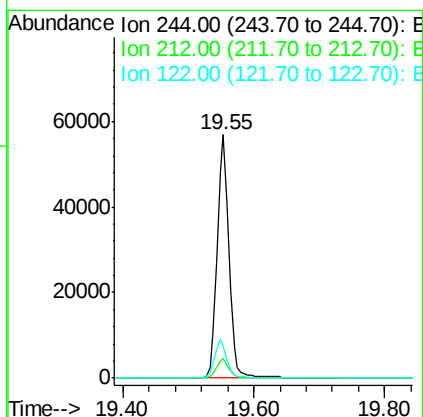
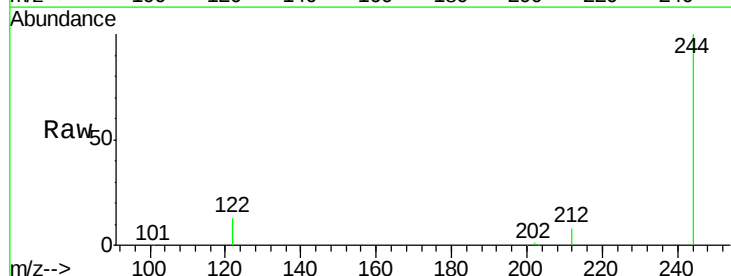
Instrument :
BNA_E
ClientSampleId :
CSB-02

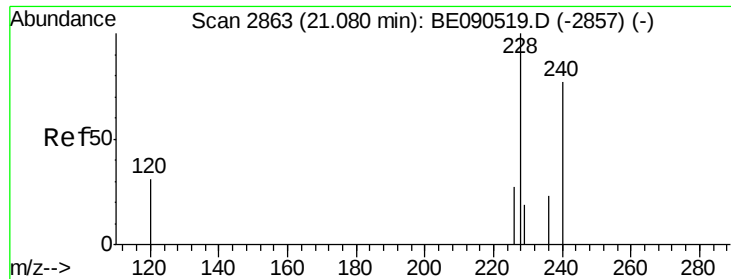
Tot Ion:202 Resp: 2016
Ion Ratio Lower Upper
202 100
200 20.3 16.7 25.1
203 20.1 13.8 20.8



#27
Terphenyl-d14
Concen: 3.06 ng
RT: 19.55 min Scan# 2614
Delta R.T. 0.00 min
Lab File: BE090525.D
Acq: 14 Aug 2015 17:58

Tgt Ion:244 Resp: 71196
Ion Ratio Lower Upper
244 100
212 7.9 6.6 9.8
122 13.3 10.2 15.4





#28

Benzo(a)anthracene

Concen: 0.03 ng

RT: 21.08 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

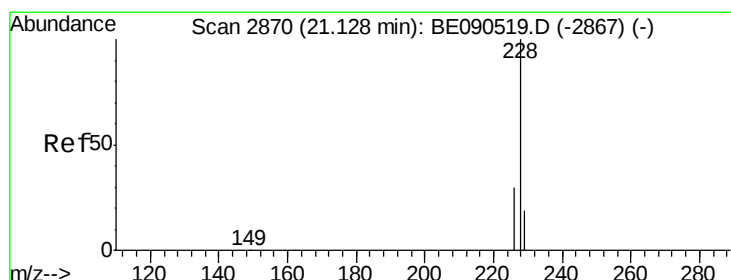
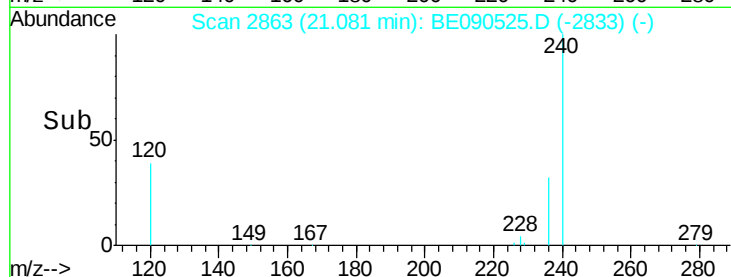
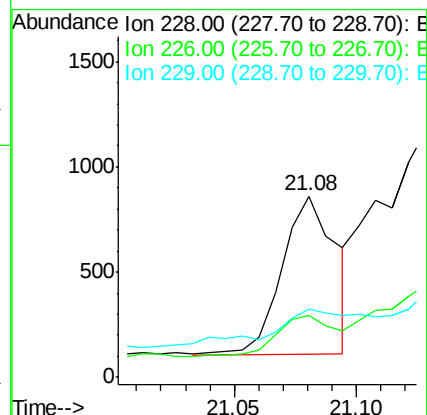
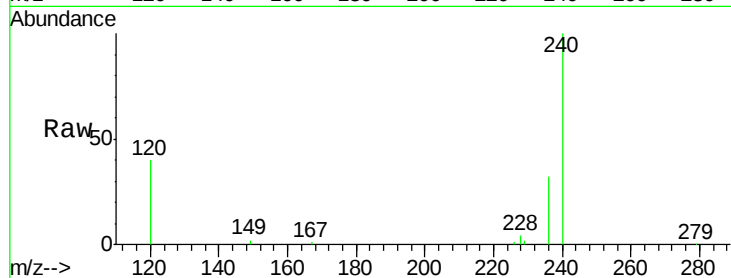
Tot Ion:228 Resp: 1162

Ion Ratio Lower Upper

228 100

226 34.1 21.9 32.9#

229 37.4 15.4 23.0#



#29

Chrysene

Concen: 0.07 ng

RT: 21.13 min Scan# 2870

Delta R.T. 0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

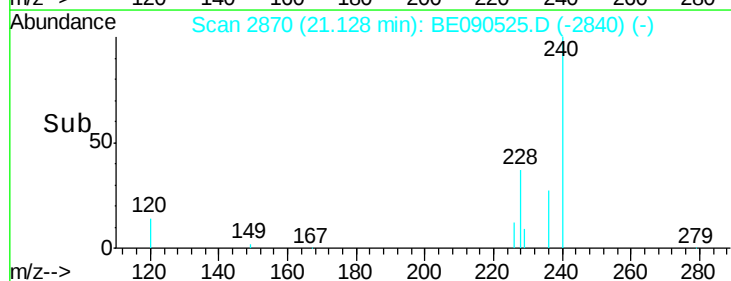
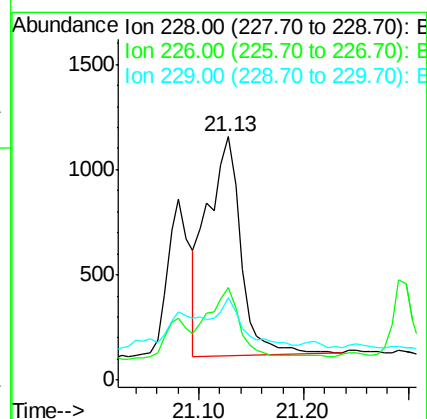
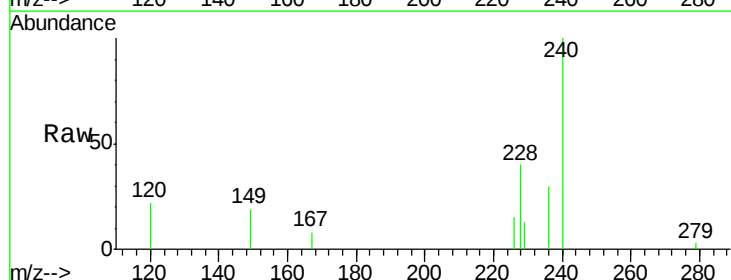
Tgt Ion:228 Resp: 2327

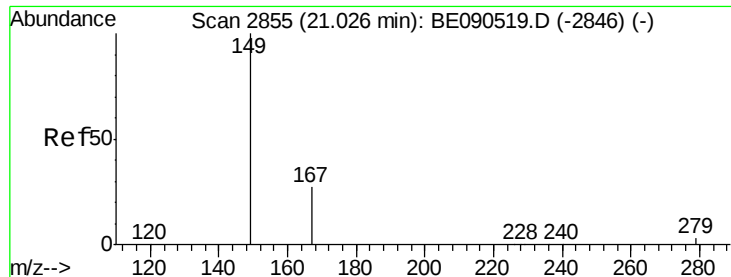
Ion Ratio Lower Upper

228 100

226 37.9 23.1 34.7#

229 33.9 15.8 23.8#





#30

Bis(2-ethylhexyl)phthalate

Concen: 0.50 ng

RT: 21.02 min Scan# 2854

Delta R.T. -0.01 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

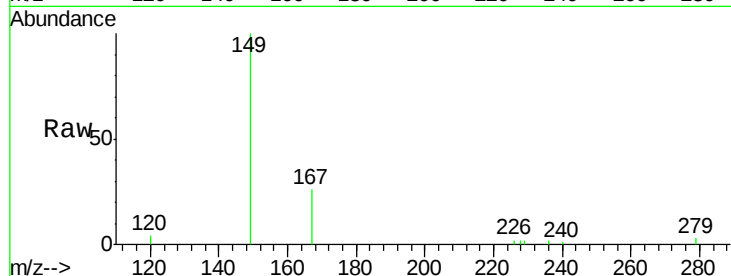
Tot Ion:149 Resp: 7444

Ion Ratio Lower Upper

149 100

167 25.5 19.8 29.8

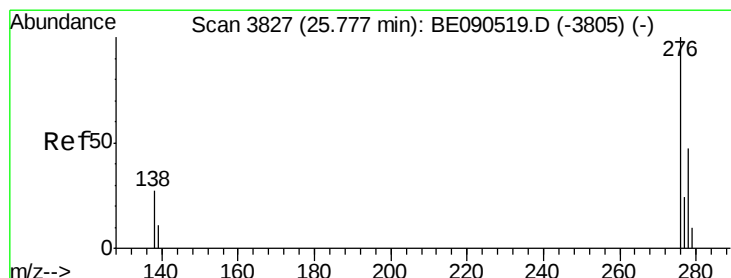
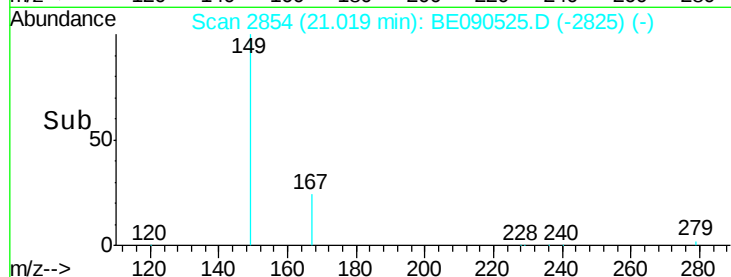
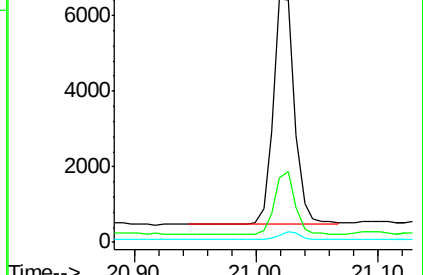
279 3.2 2.4 3.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 25.77 min Scan# 3826

Delta R.T. -0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

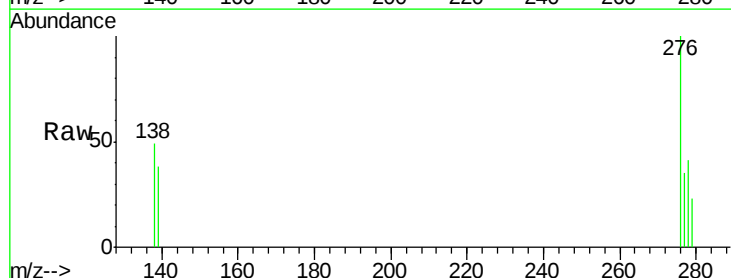
Tgt Ion:276 Resp: 1712

Ion Ratio Lower Upper

276 100

138 26.4 18.8 28.2

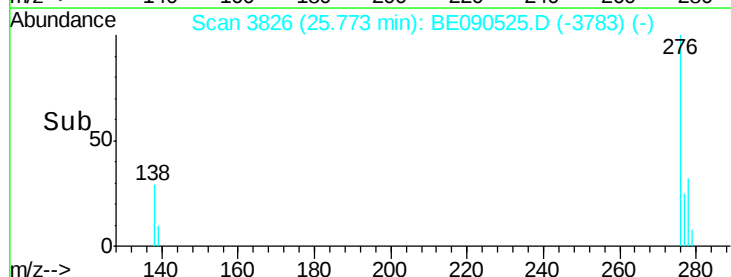
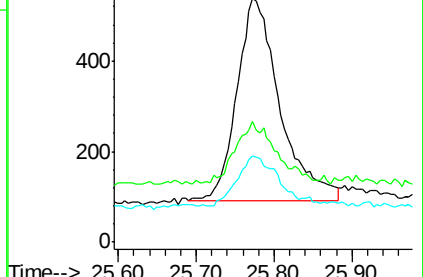
277 22.5 18.2 27.4

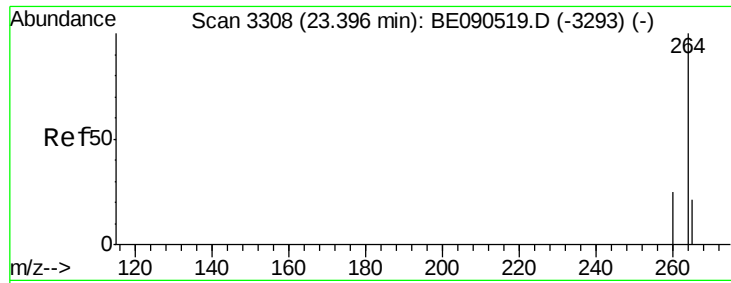


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

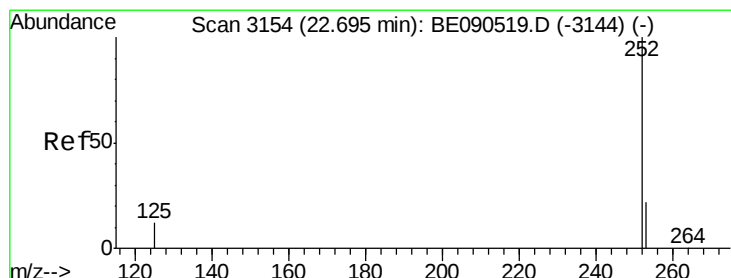
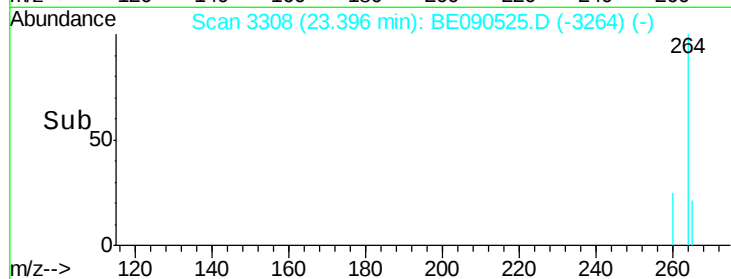
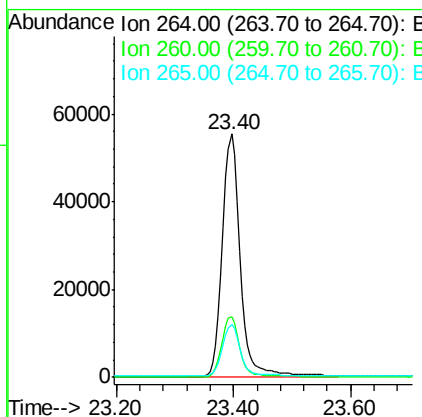
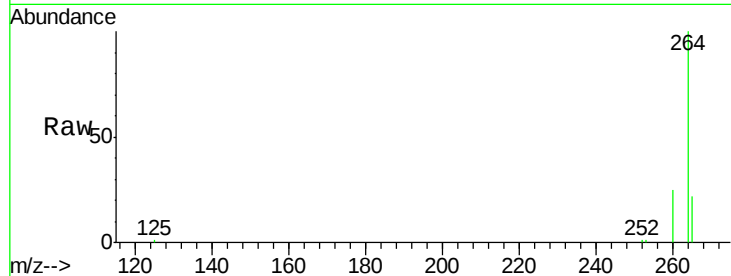




#32
Pervlene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3308
Delta R.T. 0.00 min
Lab File: BE090525.D
Acq: 14 Aug 2015 17:58

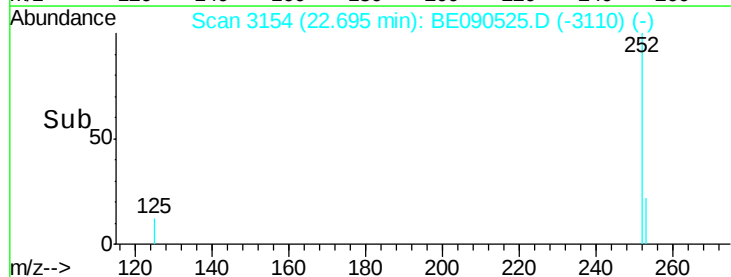
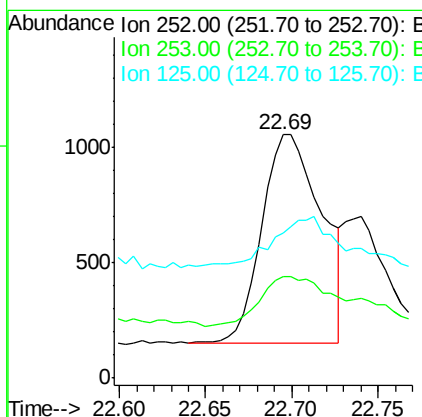
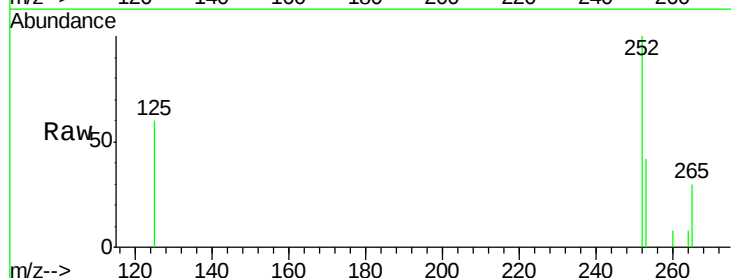
Instrument :
BNA_E
ClientSampleId :
CSB-02

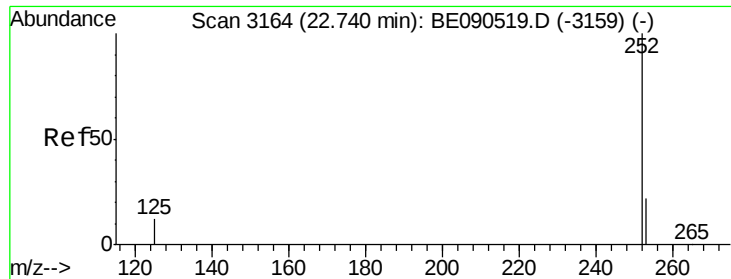
Tot Ion:264 Resp: 117453
Ion Ratio Lower Upper
264 100
260 25.1 20.1 30.1
265 21.9 17.2 25.8



#33
Benzo(b)fluoranthene
Concen: 0.08 ng
RT: 22.69 min Scan# 3154
Delta R.T. 0.00 min
Lab File: BE090525.D
Acq: 14 Aug 2015 17:58

Tgt Ion:252 Resp: 2193
Ion Ratio Lower Upper
252 100
253 41.7 18.1 27.1#
125 59.8 9.4 14.2#

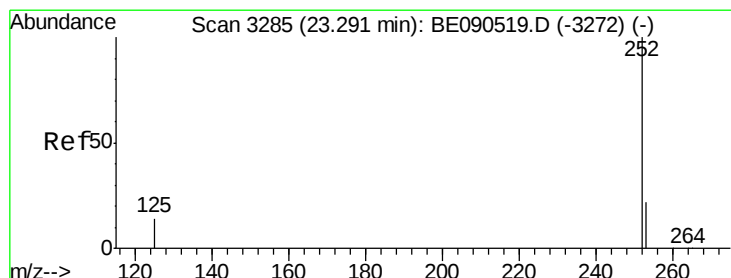
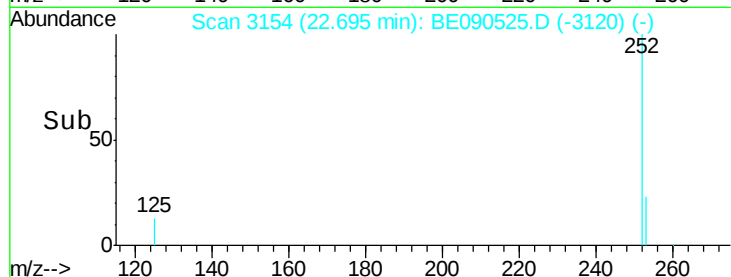
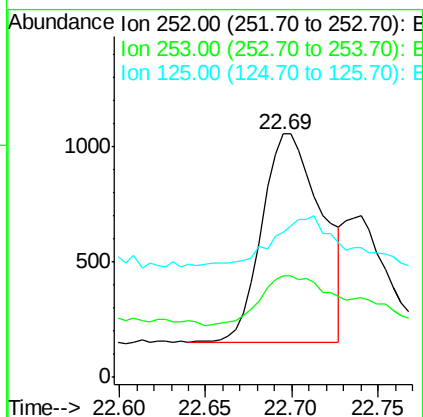
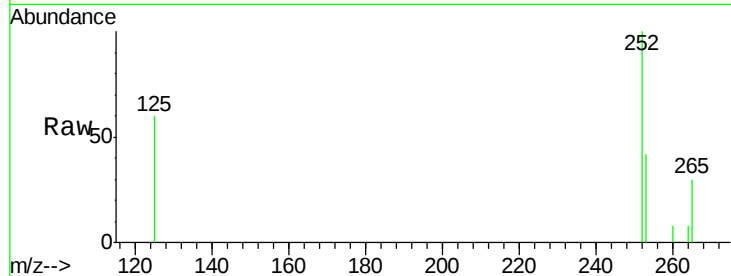




#34
Benzo(k)fluoranthene
Concen: 0.07 ng
RT: 22.69 min Scan# 3154
Delta R.T. -0.05 min
Lab File: BE090525.D
Acq: 14 Aug 2015 17:58

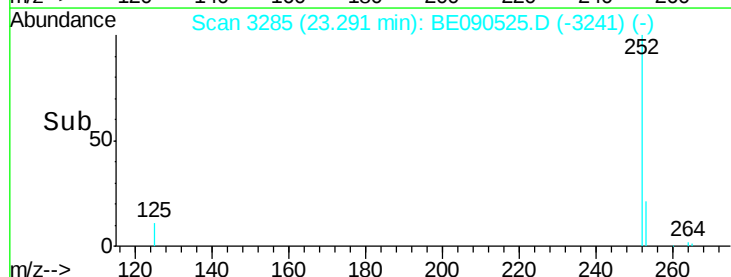
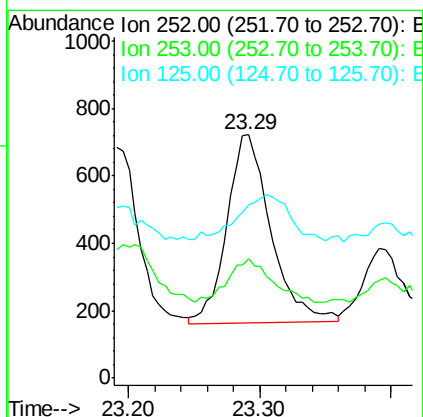
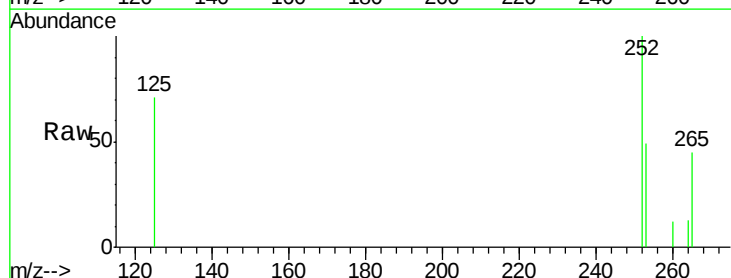
Instrument :
BNA_E
ClientSampleId :
CSB-02

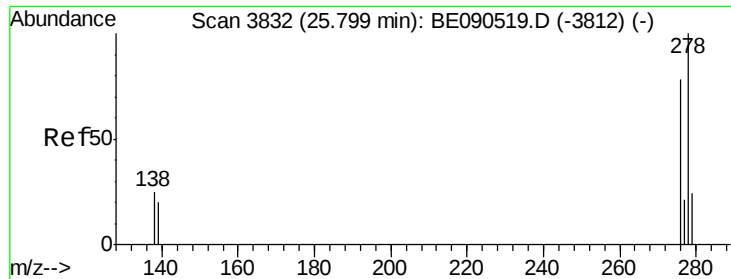
Tot Ion:252 Resp: 2193
Ion Ratio Lower Upper
252 100
253 41.7 18.1 27.1#
125 59.8 9.1 13.7#



#35
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.29 min Scan# 3285
Delta R.T. 0.00 min
Lab File: BE090525.D
Acq: 14 Aug 2015 17:58

Tgt Ion:252 Resp: 1294
Ion Ratio Lower Upper
252 100
253 48.8 17.6 26.4#
125 71.0 9.8 14.6#





#36

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 25.79 min Scan# 3830

Delta R.T. -0.01 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

Instrument :

BNA_E

ClientSampleId :

CSB-02

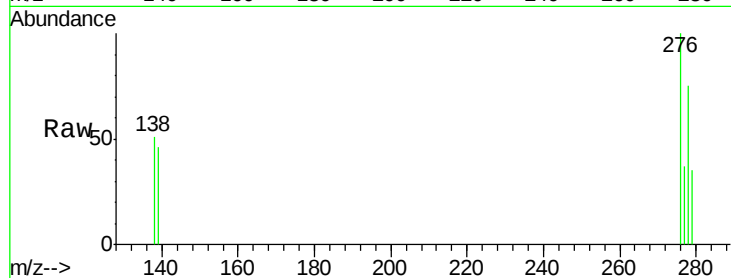
Tot Ion:278 Resp: 953

Ion Ratio Lower Upper

278 100

139 61.1 14.2 21.4#

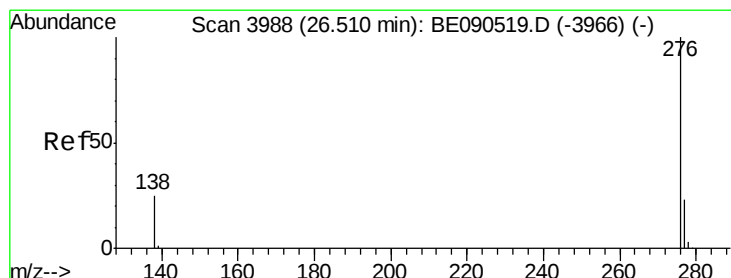
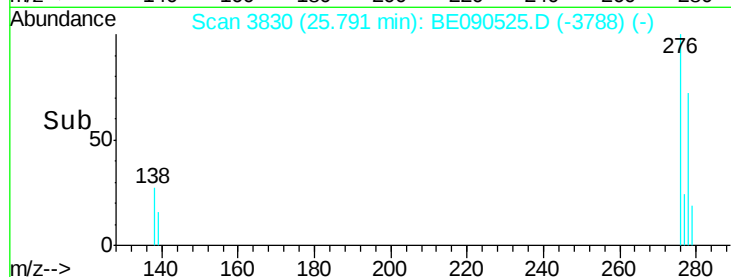
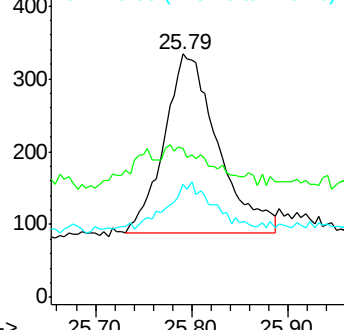
279 46.4 20.1 30.1#



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



#37

Benzo(g,h,i)perylene

Concen: 0.06 ng

RT: 26.51 min Scan# 3987

Delta R.T. -0.00 min

Lab File: BE090525.D

Acq: 14 Aug 2015 17:58

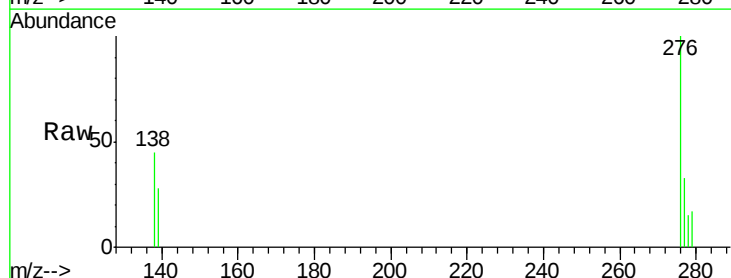
Tgt Ion:276 Resp: 1589

Ion Ratio Lower Upper

276 100

277 32.6 20.1 30.1#

138 45.2 18.1 27.1#



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

