

Data Path : Z:\HPCHEM1\BNA E\DATA\BE072215\
 Data File : BE090219.D
 Acq On : 22 Jul 2015 4:28
 Operator : TP/IZ
 Sample : MDL-02-S
 Misc : MDL-SIM-SOIL-0.15PPM
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 22 06:04:31 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE072215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 22 05:40:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	651	0.40	ng/ul	0.00
2) Naphthalene-d8	10.37	136	3215	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.21	164	1945	0.40	ng/ul	0.00
10) Phenanthrene-d10	16.95	188	5323	0.40	ng/ul	0.01
16) Chrysene-d12	21.12	240	2445	0.40	ng/ul	0.00
20) Perylene-d12	23.42	264	1250	0.40	ng/ul	0.00

System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.96	152	2233	0.44	ng/ul	0.00
14) Fluoranthene-d10	18.98	212	5855	0.38	ng/ul	0.00

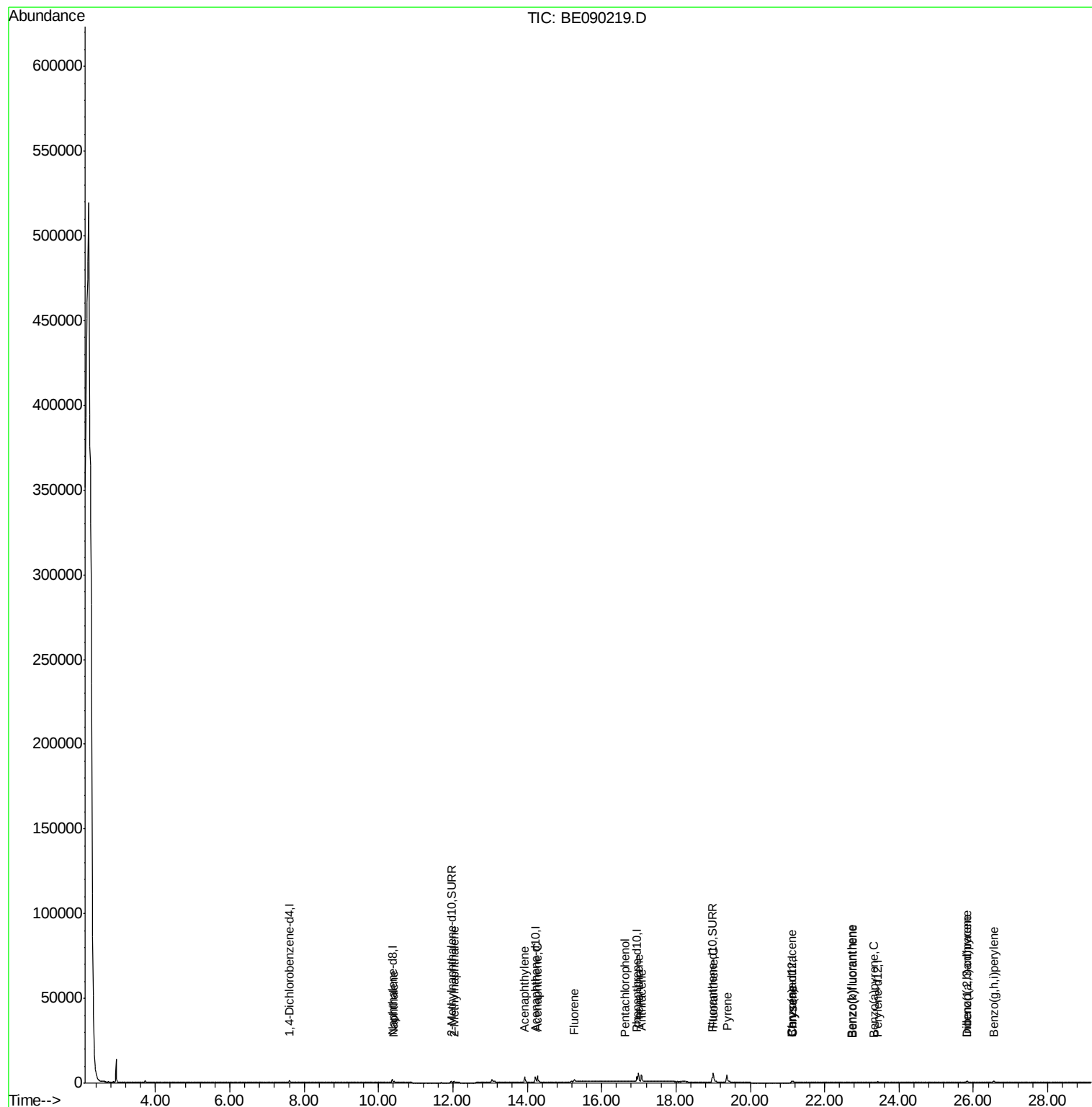
Target Compounds						Ovalue
3) Naphthalene	10.41	128	1060	0.12	ng/ul#	84
5) 2-Methylnaphthalene	12.03	142	699	0.12	ng/ul	98
7) Acenaphthylene	13.93	152	4908	0.12	ng/ul#	92
8) Acenaphthene	14.27	153	3519	0.12	ng/ul	100
9) Fluorene	15.27	166	1027	0.11	ng/ul#	94
11) Pentachlorophenol	16.62	266	12	0.04	ng/ul#	53
12) Phenanthrene	16.99	178	6793	0.11	ng/ul#	94
13) Anthracene	17.07	178	6818	0.12	ng/ul#	90
15) Fluoranthene	19.00	202	7911	0.11	ng/ul	92
17) Pyrene	19.37	202	7723	0.19	ng/ul#	93
18) Benzo(a)anthracene	21.10	228	382	0.10	ng/ul#	77
19) Chrysene	21.15	228	1135	0.11	ng/ul#	85
21) Benzo(b)fluoranthene	22.72	252	234	0.15	ng/ul#	51
22) Benzo(k)fluoranthene	22.77	252	242	0.05	ng/ul#	50
23) Benzo(a)pyrene	23.32	252	250	0.10	ng/ul#	44
24) Indeno(1,2,3-cd)pyrene	25.81	276	879	0.12	ng/ul#	95
25) Dibenzo(a,h)anthracene	25.83	278	143	0.12	ng/ul#	50
26) Benzo(g,h,i)perylene	26.54	276	1008	0.10	ng/ul#	48

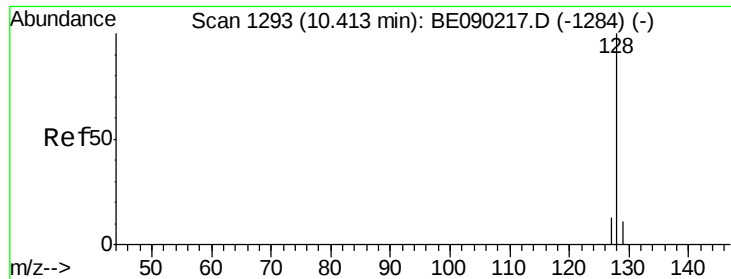
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.12 ng/ul

RT: 10.41 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

Instrument :

BNA_E

ClientSampleId :

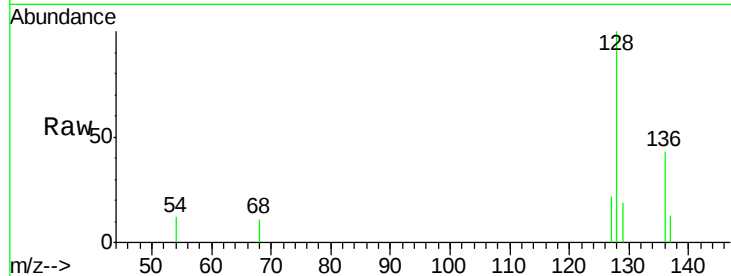
Tot Ion:128 Resp: 1060

Ion Ratio Lower Upper

128 100

129 18.9 10.2 15.2#

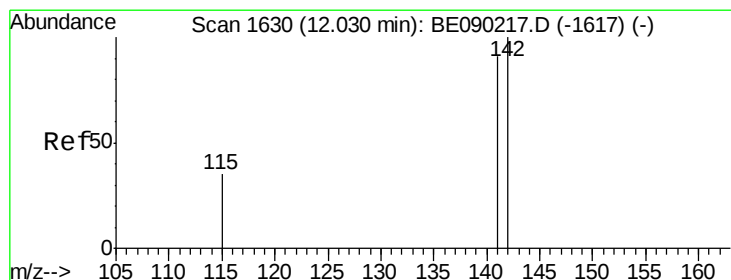
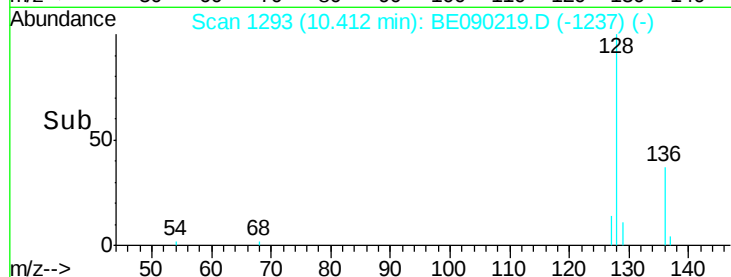
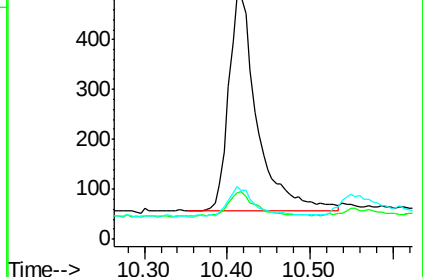
127 21.5 11.8 17.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.12 ng/ul

RT: 12.03 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BE090219.D

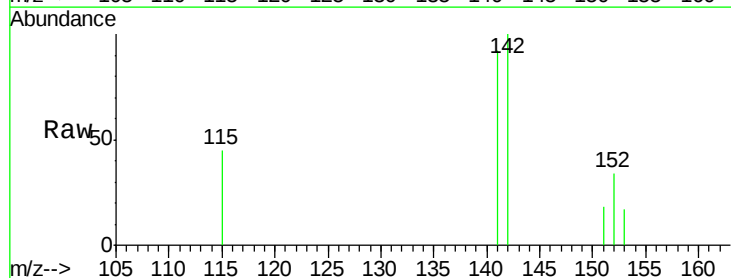
Acq: 22 Jul 2015 4:28

Tgt Ion:142 Resp: 699

Ion Ratio Lower Upper

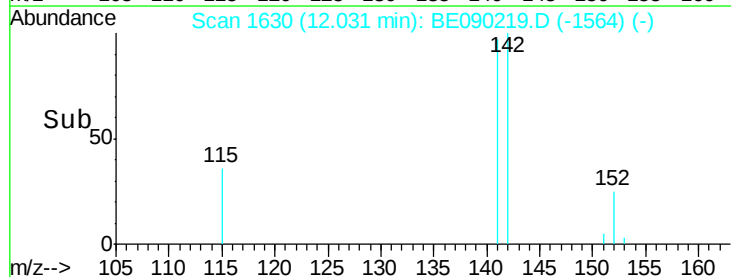
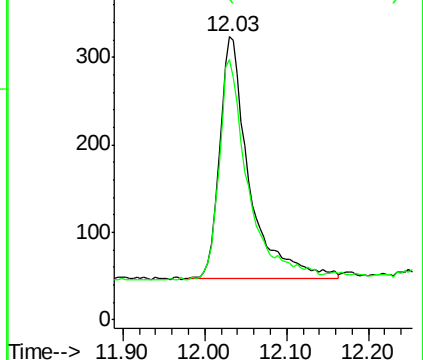
142 100

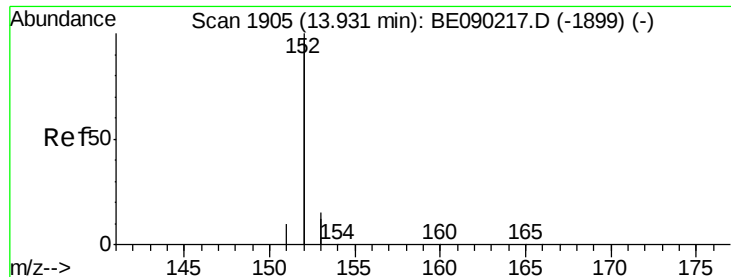
141 89.3 73.0 109.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.12 ng/ul

RT: 13.93 min Scan# 1905

Delta R.T. 0.00 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

Instrument :

BNA_E

ClientSampleId :

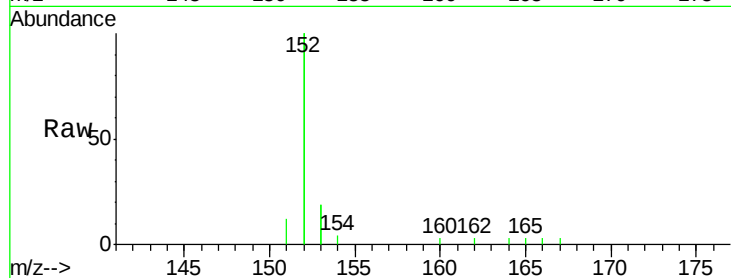
Tot Ion:152 Resp: 4908

Ion Ratio Lower Upper

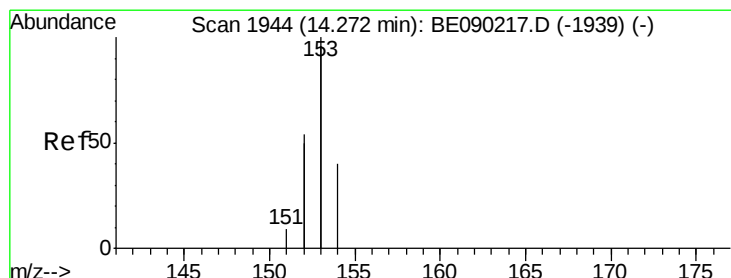
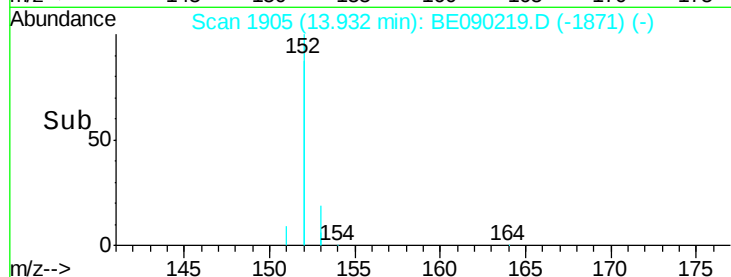
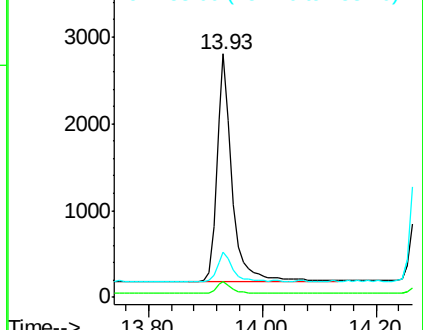
152 100

151 6.2 4.2 6.4

153 18.5 11.5 17.3#



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



#8

Acenaphthene

Concen: 0.12 ng/ul

RT: 14.27 min Scan# 1944

Delta R.T. 0.00 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

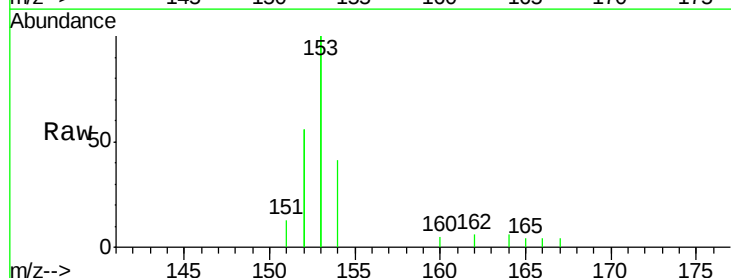
Tgt Ion:153 Resp: 3519

Ion Ratio Lower Upper

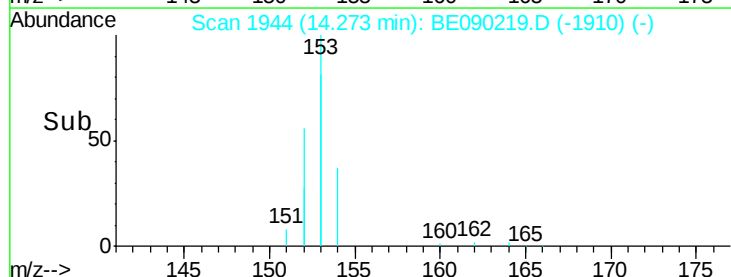
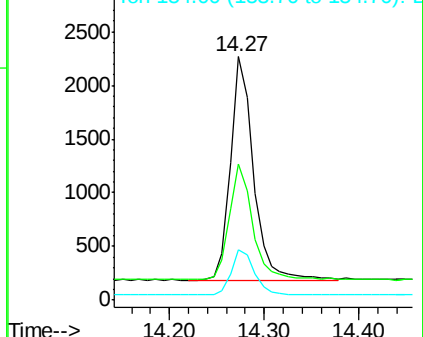
153 100

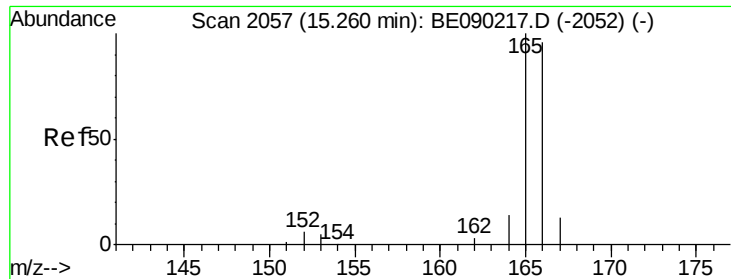
152 56.0 45.0 67.4

154 20.6 16.8 25.2



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.11 ng/ul

RT: 15.27 min Scan# 2058

Delta R.T. 0.01 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

Instrument :

BNA_E

ClientSampleId :

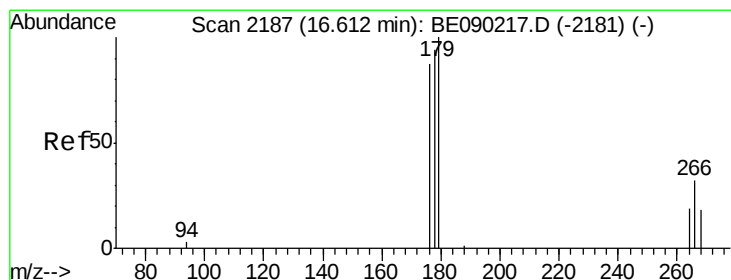
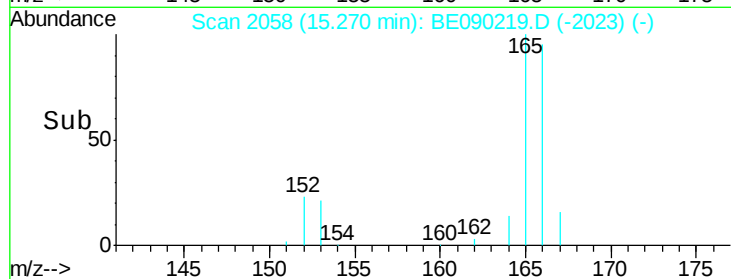
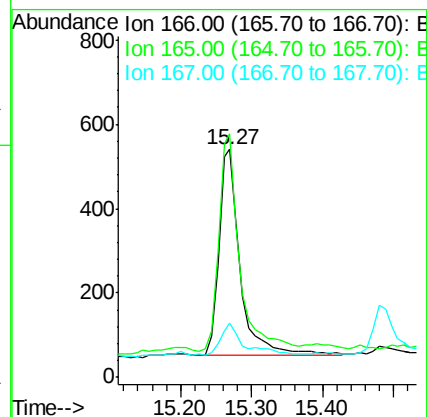
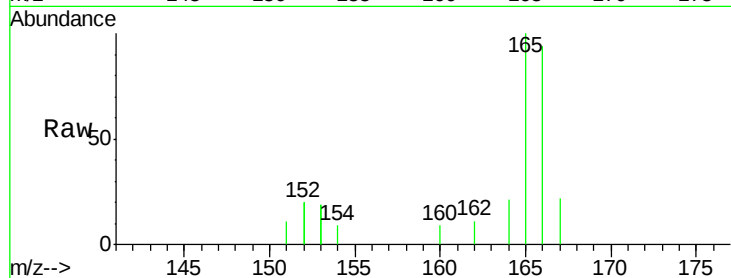
Tot Ion:166 Resp: 1027

Ion Ratio Lower Upper

166 100

165 106.7 81.9 122.9

167 23.8 12.2 18.2#



#11

Pentachlorophenol

Concen: 0.04 ng/ul

RT: 16.62 min Scan# 2188

Delta R.T. 0.01 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

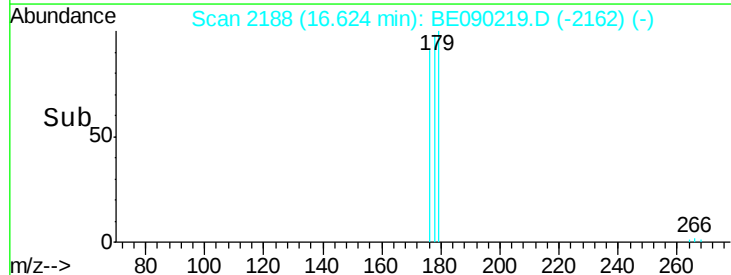
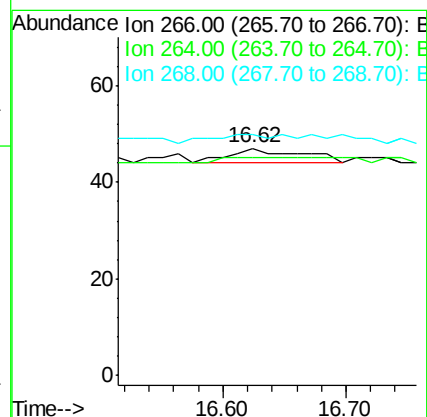
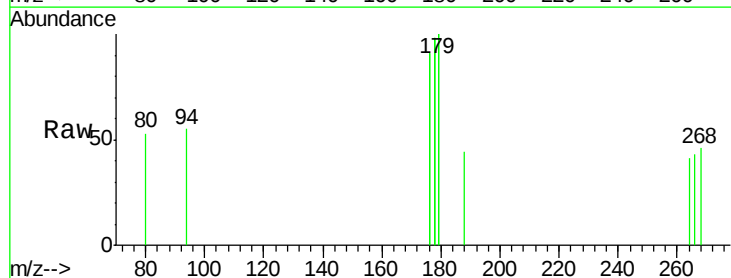
Tgt Ion:266 Resp: 12

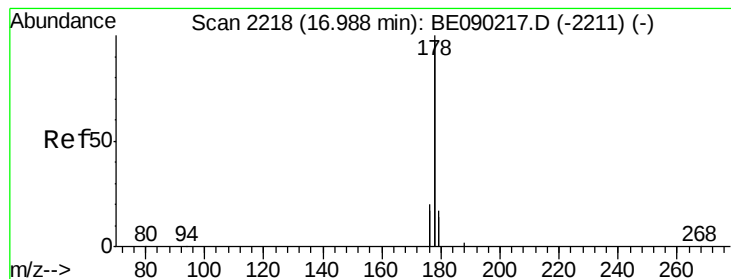
Ion Ratio Lower Upper

266 100

264 0.0 51.6 77.4#

268 50.0 41.3 61.9





#12

Phenanthrene

Concen: 0.11 ng/ul

RT: 16.99 min Scan# 2218

Delta R.T. 0.00 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

Instrument :

BNA_E

ClientSampled :

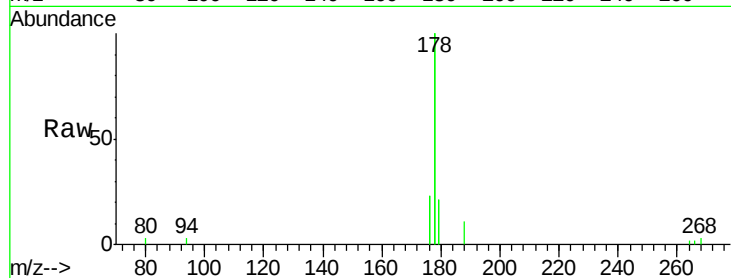
Tot Ion:178 Resp: 6793

Ion Ratio Lower Upper

178 100

176 22.5 17.6 26.4

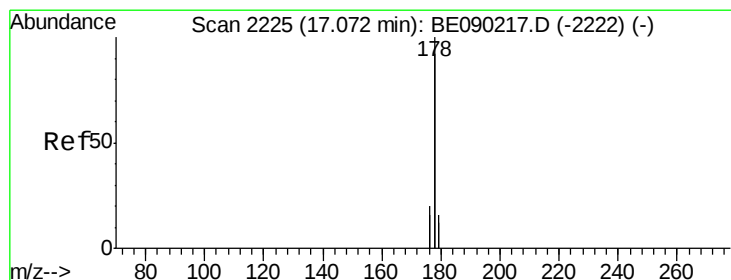
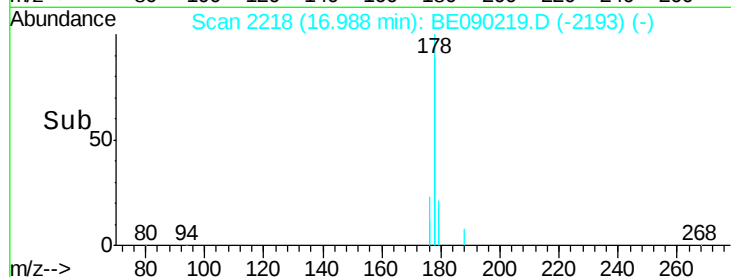
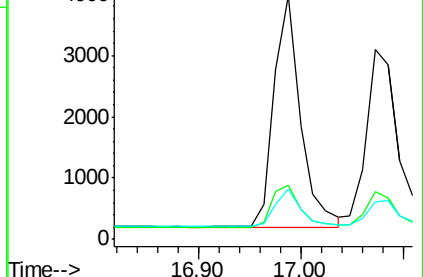
179 20.7 12.2 18.4#



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



#13

Anthracene

Concen: 0.12 ng/ul

RT: 17.07 min Scan# 2225

Delta R.T. 0.00 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

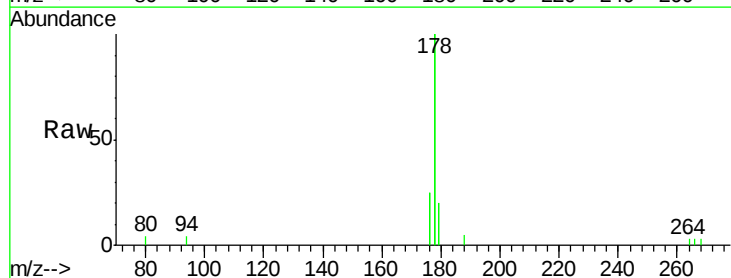
Tgt Ion:178 Resp: 6818

Ion Ratio Lower Upper

178 100

176 25.0 15.9 23.9#

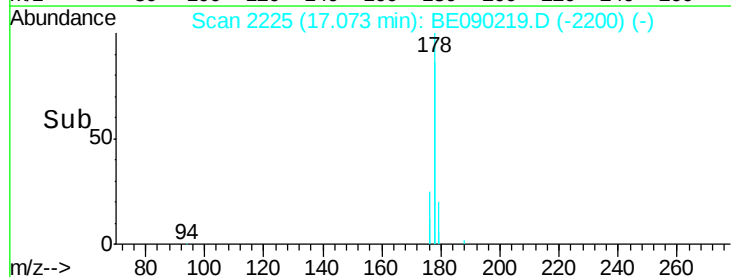
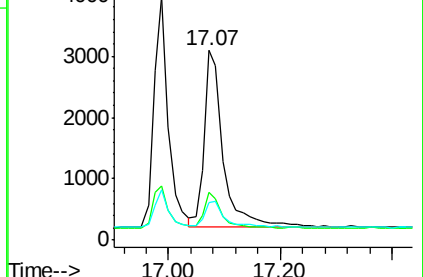
179 19.9 13.3 19.9#

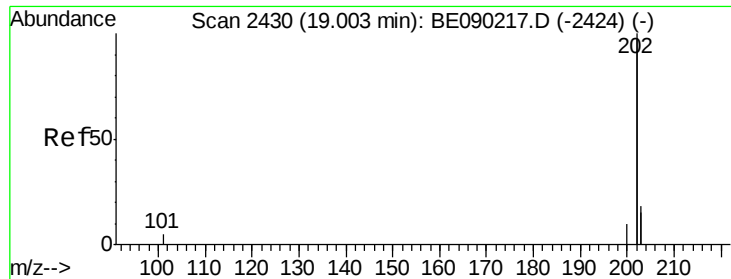


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

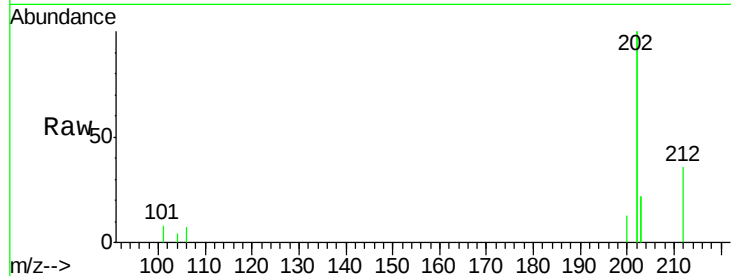




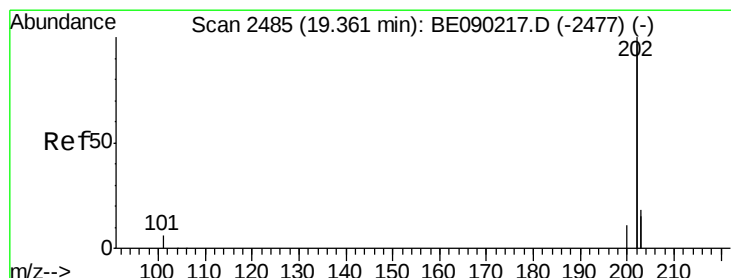
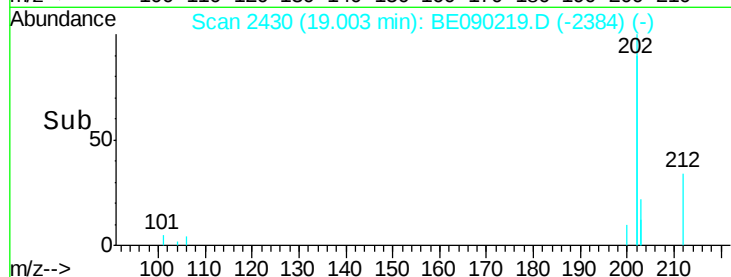
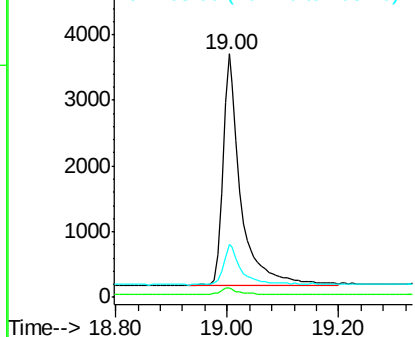
#15
Fluoranthene
Concen: 0.11 ng/ul
RT: 19.00 min Scan# 2430
Delta R.T. 0.00 min
Lab File: BE090219.D
Acq: 22 Jul 2015 4:28

Instrument :
BNA_E
ClientSampleId :

Tot Ion:202 Resp: 7911
Ion Ratio Lower Upper
202 100
101 3.8 0.0 23.0
203 21.9 0.0 37.8

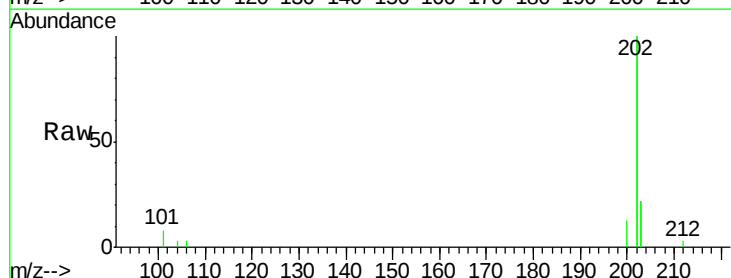


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

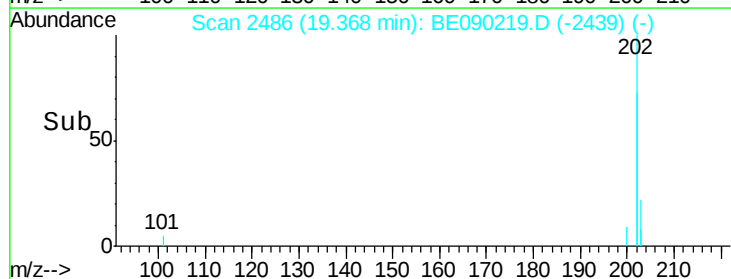
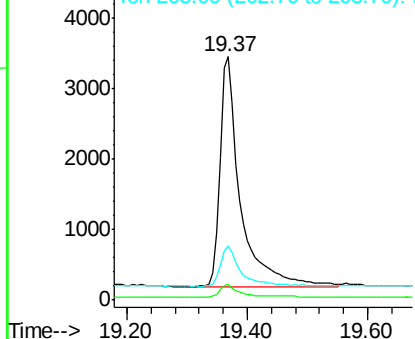


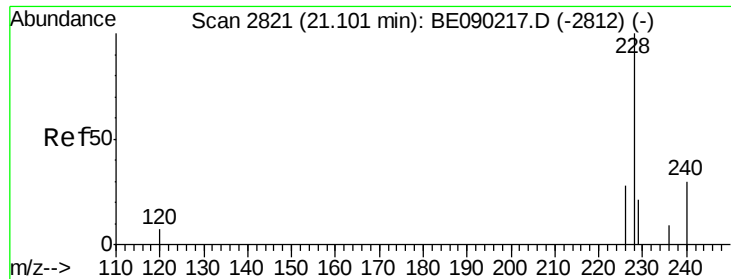
#17
Pyrene
Concen: 0.19 ng/ul
RT: 19.37 min Scan# 2486
Delta R.T. 0.01 min
Lab File: BE090219.D
Acq: 22 Jul 2015 4:28

Tgt Ion:202 Resp: 7723
Ion Ratio Lower Upper
202 100
200 6.4 4.4 6.6
203 22.2 14.6 22.0#



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

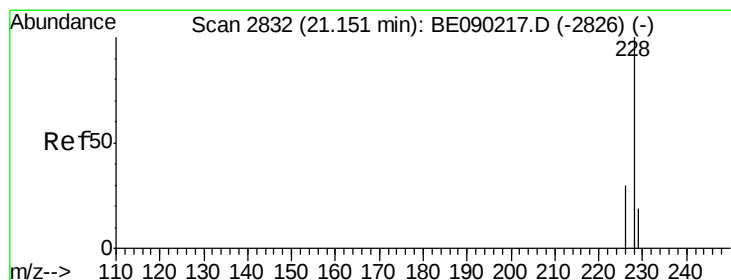
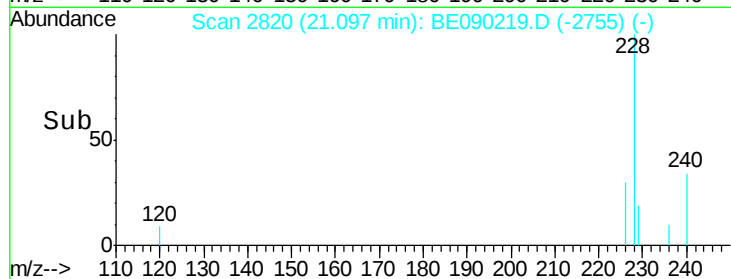
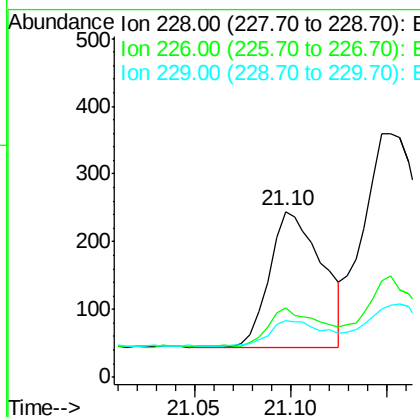
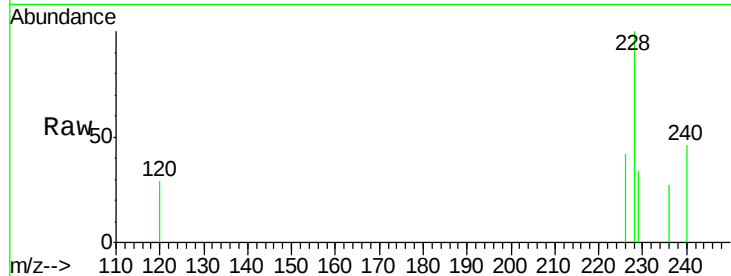




#18
Benzo(a)anthracene
Concen: 0.10 ng/ul
RT: 21.10 min Scan# 2820
Delta R.T. -0.00 min
Lab File: BE090219.D
Acq: 22 Jul 2015 4:28

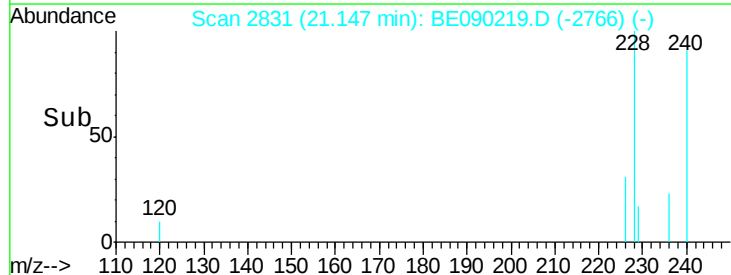
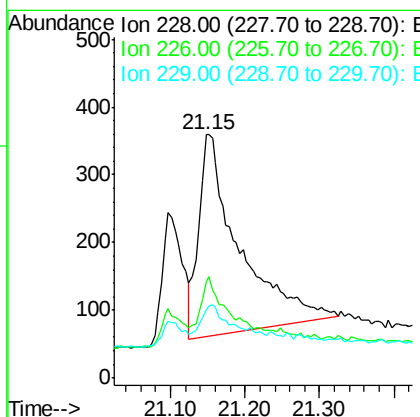
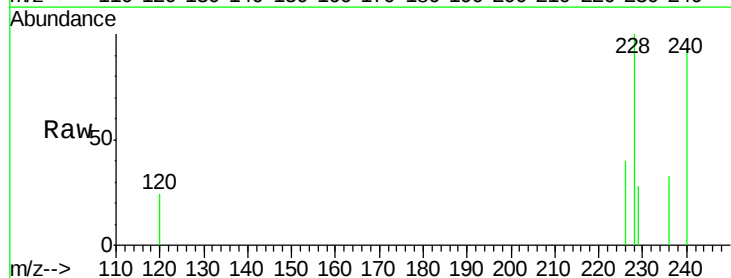
Instrument :
BNA_E
ClientSampleId :

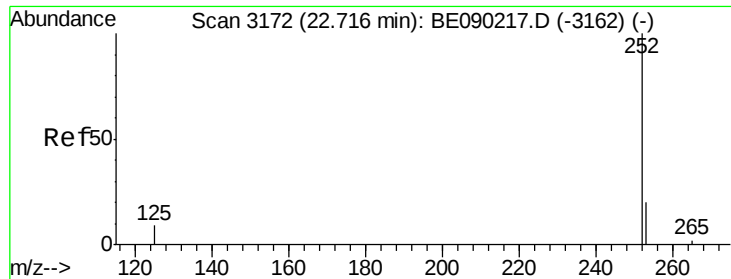
Tot Ion:228 Resp: 382
Ion Ratio Lower Upper
228 100
226 42.0 24.1 36.1#
229 34.3 17.9 26.9#



#19
Chrysene
Concen: 0.11 ng/ul
RT: 21.15 min Scan# 2831
Delta R.T. -0.00 min
Lab File: BE090219.D
Acq: 22 Jul 2015 4:28

Tgt Ion:228 Resp: 1135
Ion Ratio Lower Upper
228 100
226 39.8 24.6 36.8#
229 27.9 17.4 26.2#





#21

Benzo(b)fluoranthene

Concen: 0.15 ng/ul

RT: 22.72 min Scan# 3173

Delta R.T. 0.00 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

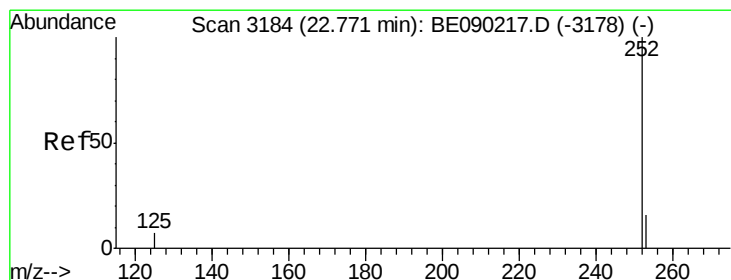
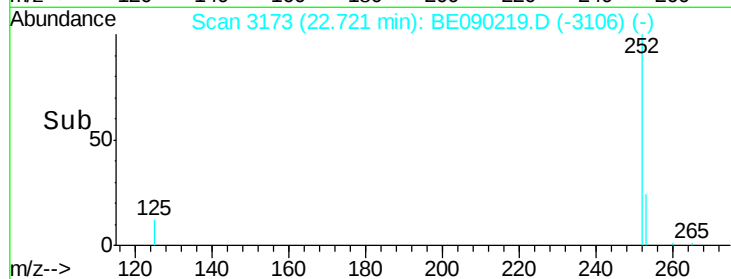
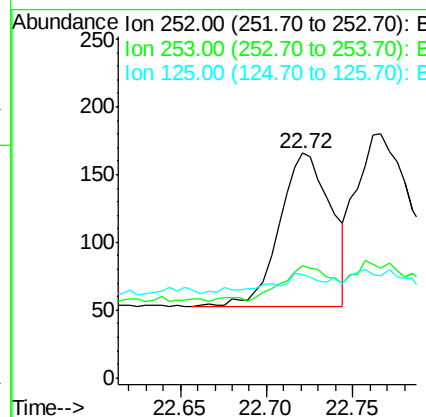
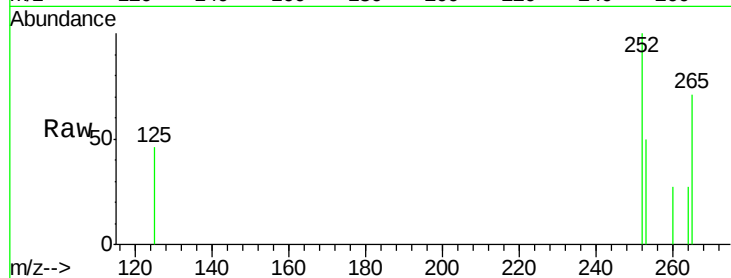
Instrument :

BNA_E

ClientSampleId :

Tot Ion:252 Resp: 234

Ion	Ratio	Lower	Upper
252	100		
253	50.0	0.0	56.8
125	45.8	0.0	37.0#



#22

Benzo(k)fluoranthene

Concen: 0.05 ng/ul

RT: 22.77 min Scan# 3183

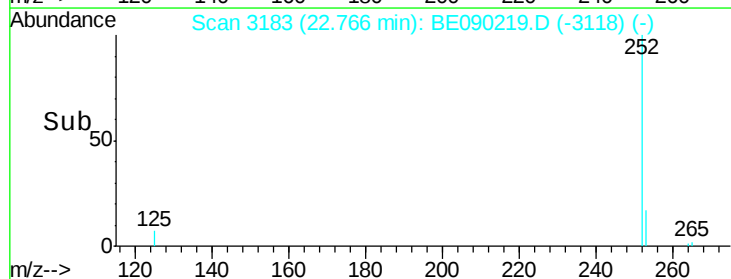
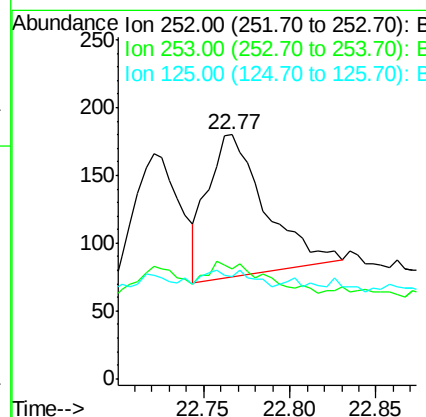
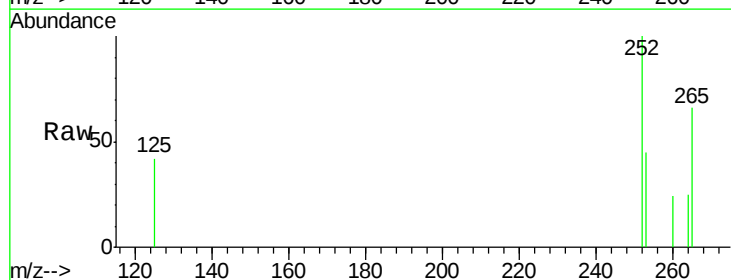
Delta R.T. -0.00 min

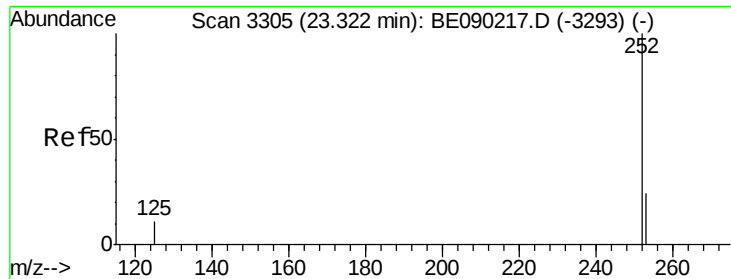
Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

Tgt Ion:252 Resp: 242

Ion	Ratio	Lower	Upper
252	100		
253	45.0	19.5	29.3#
125	41.7	11.9	17.9#





#23

Benzo(a)pyrene

Concen: 0.10 ng/ul

RT: 23.32 min Scan# 3304

Delta R.T. -0.00 min

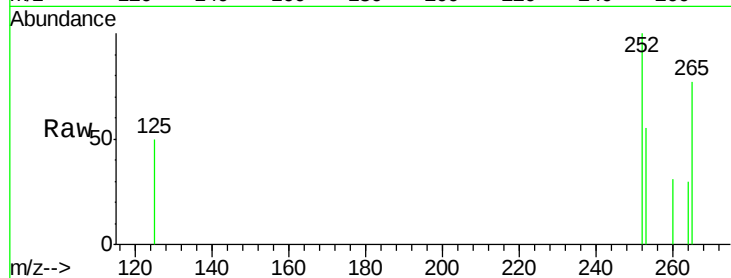
Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

Instrument :

BNA_E

ClientSampled :



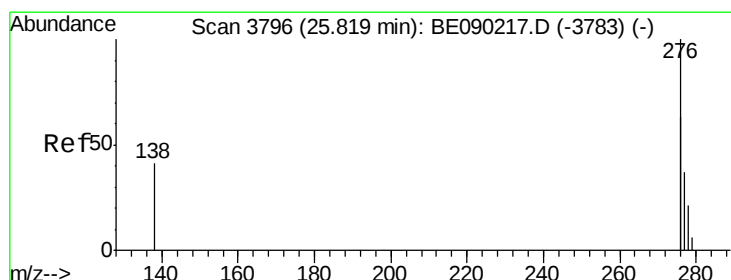
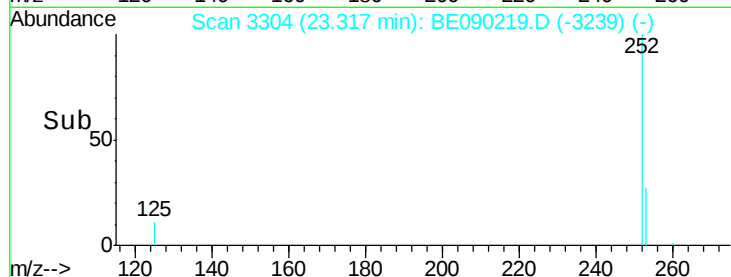
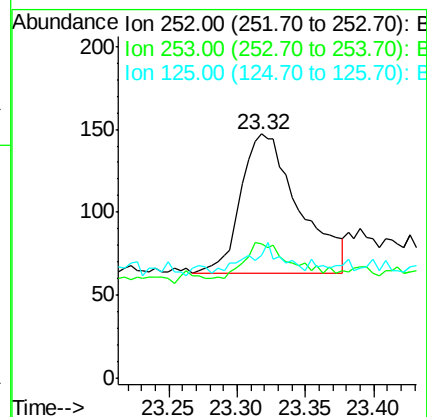
Tot Ion: 252 Resp: 250

Ion Ratio Lower Upper

252 100

253 55.1 23.7 35.5#

125 50.3 15.4 23.2#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.12 ng/ul

RT: 25.81 min Scan# 3795

Delta R.T. -0.01 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

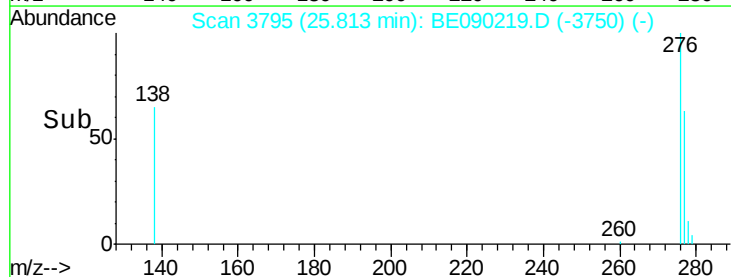
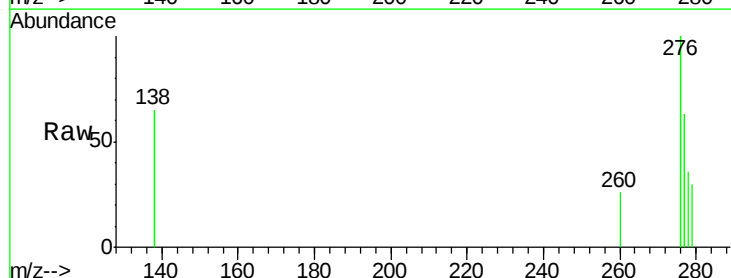
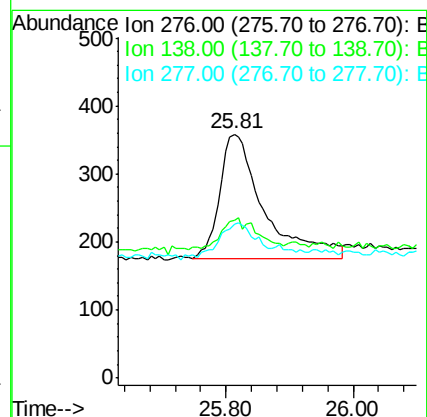
Tgt Ion: 276 Resp: 879

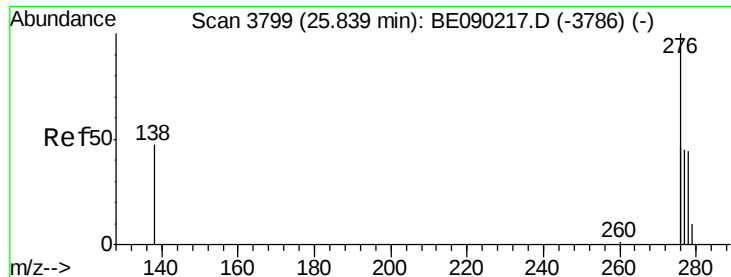
Ion Ratio Lower Upper

276 100

138 21.3 16.9 25.3

277 25.9 17.0 25.4#





#25

Dibenzo(a,h)anthracene

Concen: 0.12 ng/ul

RT: 25.83 min Scan# 3798

Delta R.T. -0.01 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

Instrument :

BNA_E

ClientSampleId :

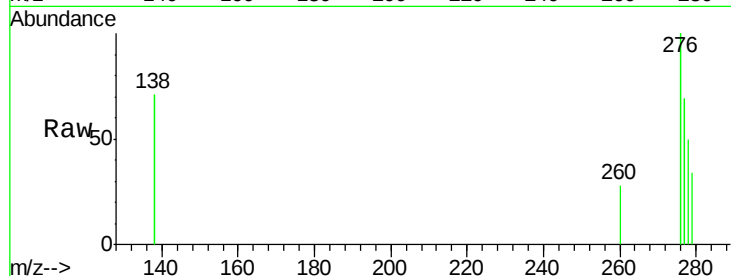
Tot Ion:278 Resp: 143

Ion Ratio Lower Upper

278 100

139 0.0 0.0 0.0

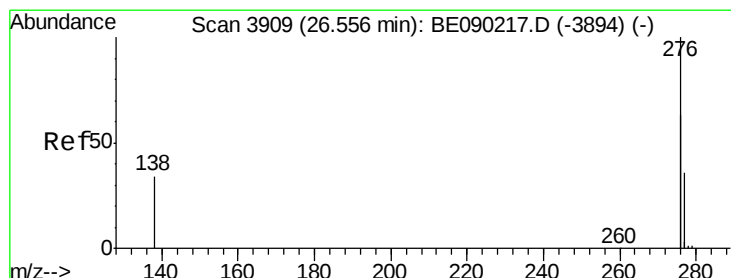
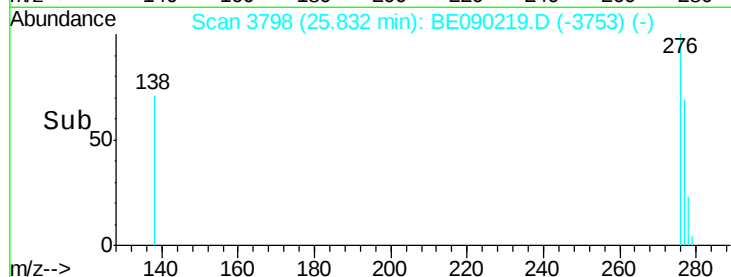
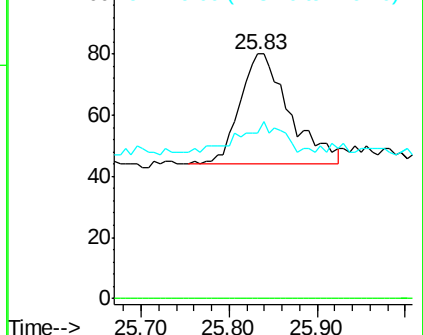
279 67.5 30.1 45.1#



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



#26

Benzo(g,h,i)perylene

Concen: 0.10 ng/ul

RT: 26.54 min Scan# 3907

Delta R.T. -0.01 min

Lab File: BE090219.D

Acq: 22 Jul 2015 4:28

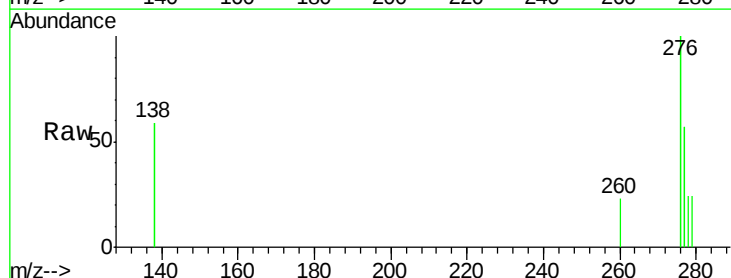
Tgt Ion:276 Resp: 1008

Ion Ratio Lower Upper

276 100

277 57.4 24.6 36.8#

138 59.4 23.5 35.3#



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

