

Data Path : Z:\HPCHEM1\BNA E\DATA\BE072215\
 Data File : BE090221.D
 Acq On : 22 Jul 2015 5:40
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SIM-SOIL-0.15PPM
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 22 08:45:15 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	685	0.40	ng/ul	0.00
2) Naphthalene-d8	10.37	136	3393	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.21	164	2024	0.40	ng/ul	0.00
10) Phenanthrene-d10	16.95	188	5513	0.40	ng/ul	0.01
16) Chrysene-d12	21.11	240	2969	0.40	ng/ul	0.00
20) Perylene-d12	23.42	264	1518	0.40	ng/ul	0.00

System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.96	152	1886	0.35	ng/ul	0.00
14) Fluoranthene-d10	18.98	212	5107	0.32	ng/ul	0.00

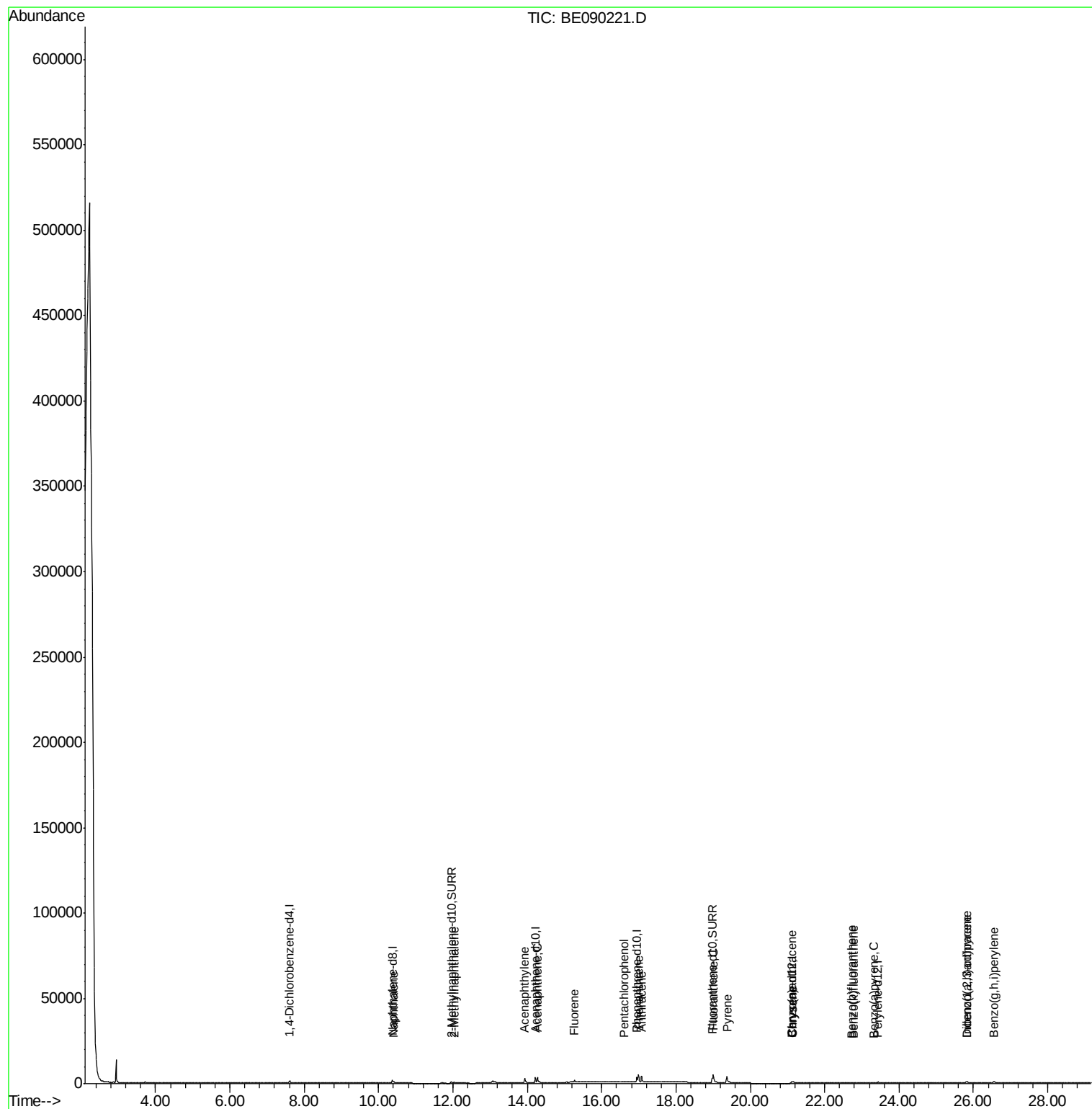
Target Compounds				Ovalue		
3) Naphthalene	10.41	128	919	0.10	ng/ul#	83
5) 2-Methylnaphthalene	12.04	142	601	0.10	ng/ul	98
7) Acenaphthylene	13.93	152	4347	0.10	ng/ul#	89
8) Acenaphthene	14.27	153	3137	0.10	ng/ul	95
9) Fluorene	15.27	166	911	0.10	ng/ul#	97
11) Pentachlorophenol	16.61	266	3	0.01	ng/ul#	43
12) Phenanthrene	16.99	178	6187	0.10	ng/ul#	93
13) Anthracene	17.07	178	6121	0.10	ng/ul#	89
15) Fluoranthene	19.00	202	7341	0.10	ng/ul	92
17) Pyrene	19.37	202	7130	0.15	ng/ul#	92
18) Benzo(a)anthracene	21.10	228	340	0.07	ng/ul#	79
19) Chrysene	21.15	228	927	0.08	ng/ul#	86
21) Benzo(b)fluoranthene	22.72	252	217	0.11	ng/ul#	48
22) Benzo(k)fluoranthene	22.77	252	287	0.05	ng/ul#	43
23) Benzo(a)pyrene	23.32	252	199	0.07	ng/ul#	42
24) Indeno(1,2,3-cd)pyrene	25.82	276	681	0.08	ng/ul#	89
25) Dibenzo(a,h)anthracene	25.84	278	127	0.09	ng/ul#	43
26) Benzo(g,h,i)perylene	26.56	276	882	0.07	ng/ul#	46

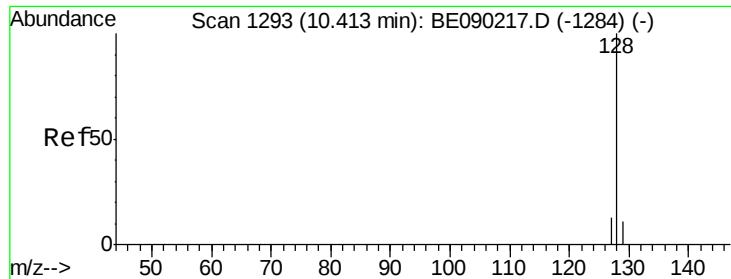
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.10 ng/ul

RT: 10.41 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

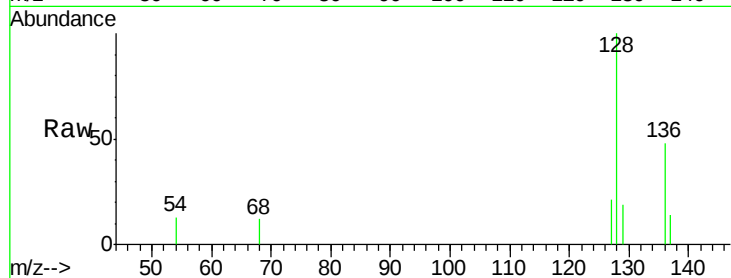
Tot Ion:128 Resp: 919

Ion Ratio Lower Upper

128 100

129 19.4 10.2 15.2#

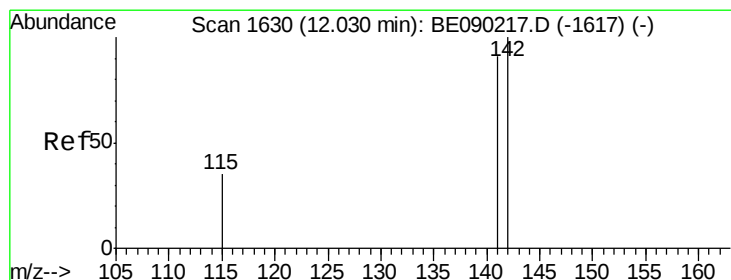
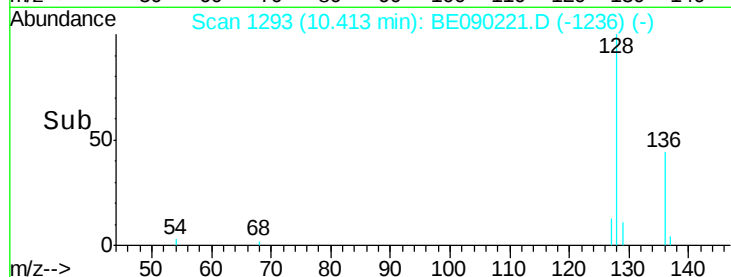
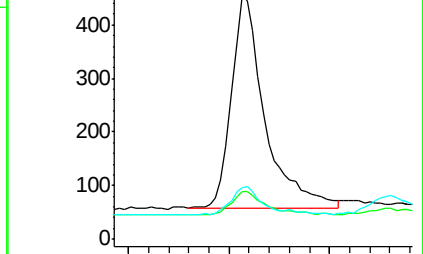
127 21.4 11.8 17.6#



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: 0.10 ng/ul

RT: 12.04 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BE090221.D

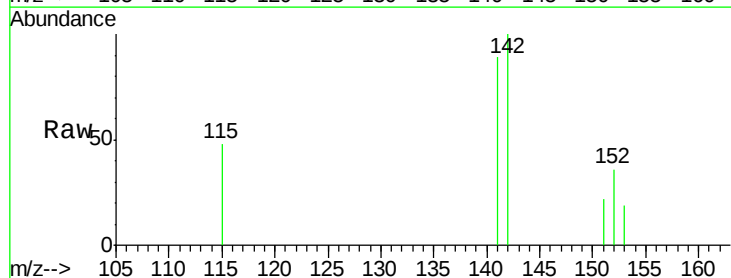
Acq: 22 Jul 2015 5:40

Tgt Ion:142 Resp: 601

Ion Ratio Lower Upper

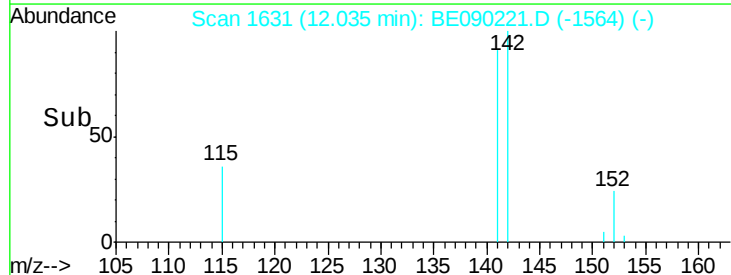
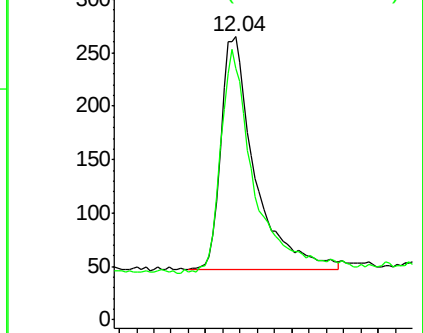
142 100

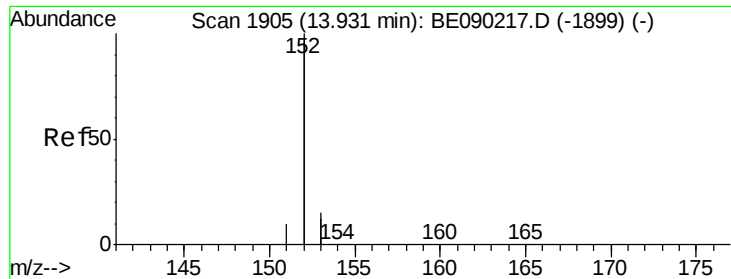
141 92.8 73.0 109.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.10 ng/ul

RT: 13.93 min Scan# 1905

Delta R.T. -0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

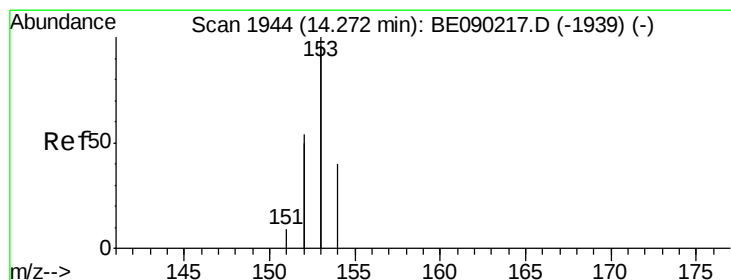
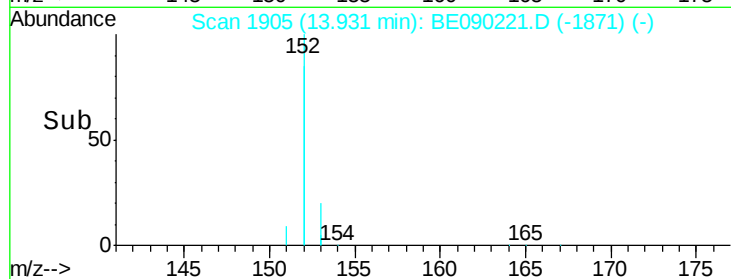
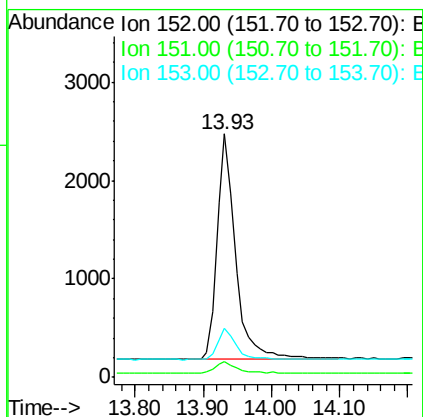
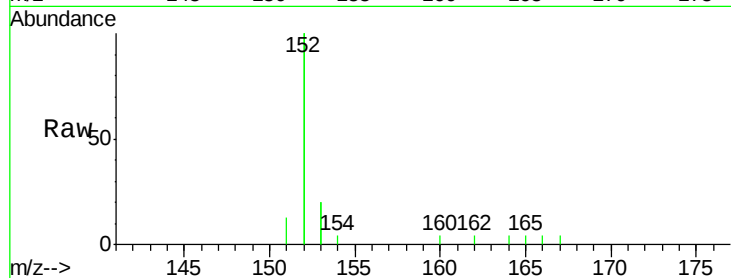
Tot Ion:152 Resp: 4347

Ion Ratio Lower Upper

152 100

151 6.5 4.2 6.4#

153 20.2 11.5 17.3#



#8

Acenaphthene

Concen: 0.10 ng/ul

RT: 14.27 min Scan# 1944

Delta R.T. -0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

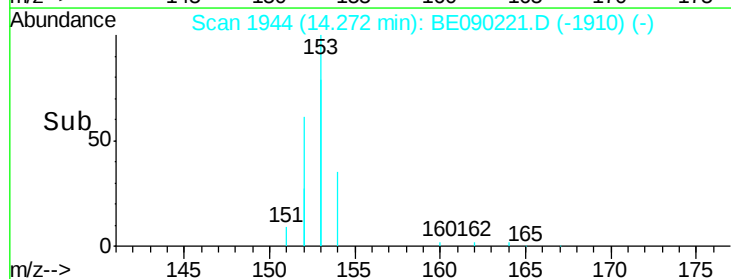
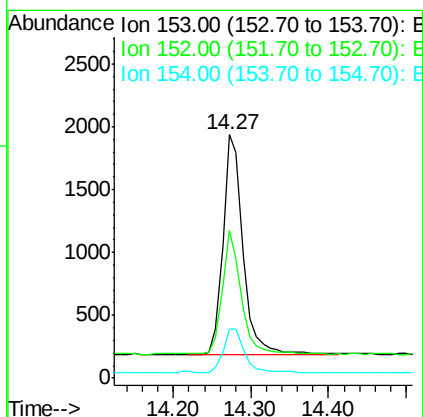
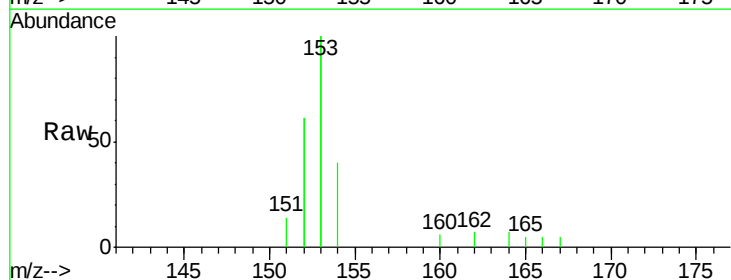
Tgt Ion:153 Resp: 3137

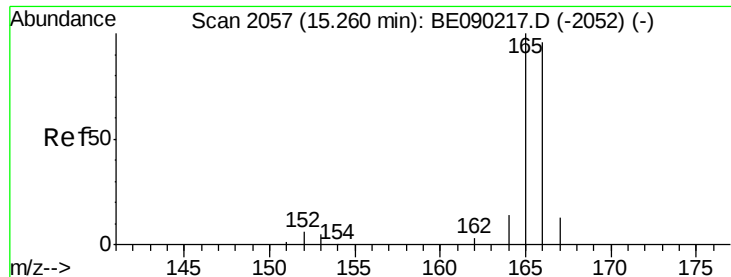
Ion Ratio Lower Upper

153 100

152 60.6 45.0 67.4

154 20.0 16.8 25.2





#9

Fluorene

Concen: 0.10 ng/ul

RT: 15.27 min Scan# 2058

Delta R.T. 0.01 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

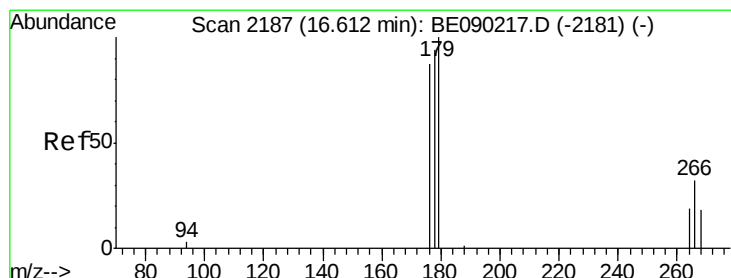
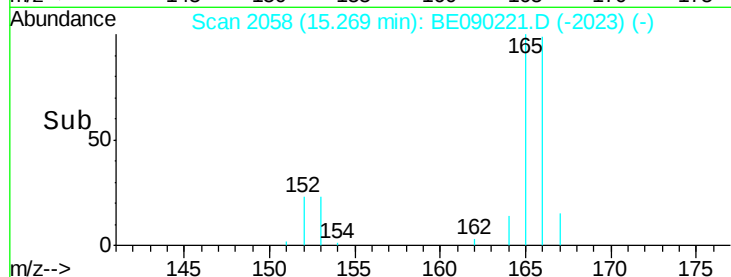
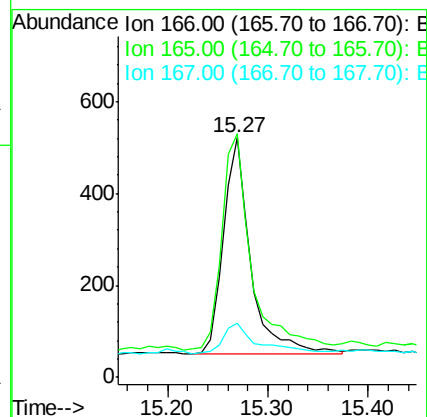
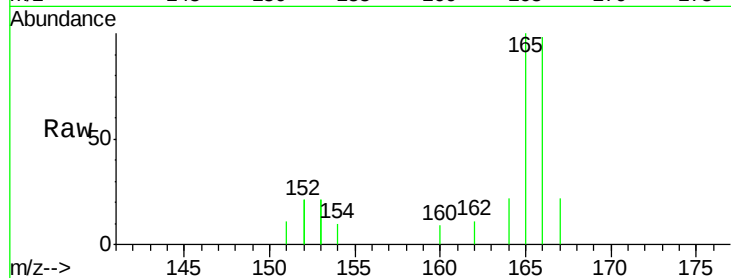
Tot Ion:166 Resp: 911

Ion Ratio Lower Upper

166 100

165 101.7 81.9 122.9

167 22.6 12.2 18.2#



#11

Pentachlorophenol

Concen: 0.01 ng/ul

RT: 16.61 min Scan# 2187

Delta R.T. 0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

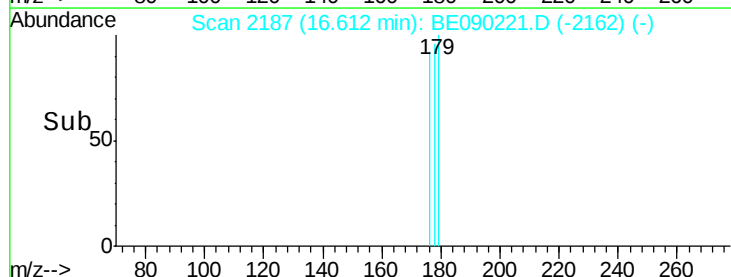
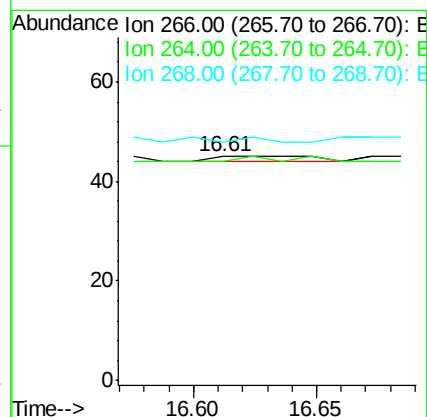
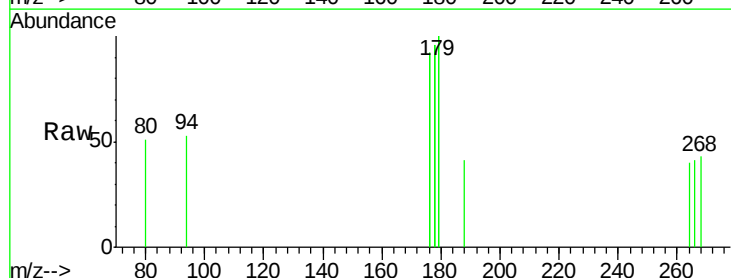
Tgt Ion:266 Resp: 3

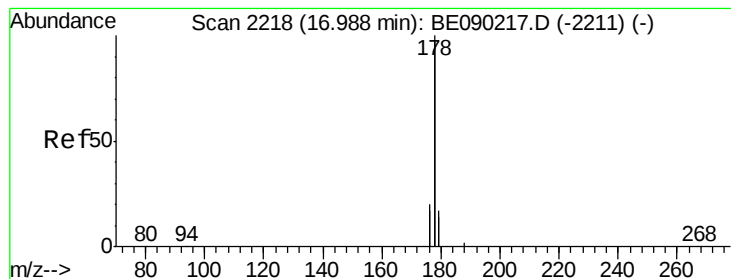
Ion Ratio Lower Upper

266 100

264 0.0 51.6 77.4#

268 33.3 41.3 61.9#





#12

Phenanthrene

Concen: 0.10 ng/ul

RT: 16.99 min Scan# 2218

Delta R.T. 0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

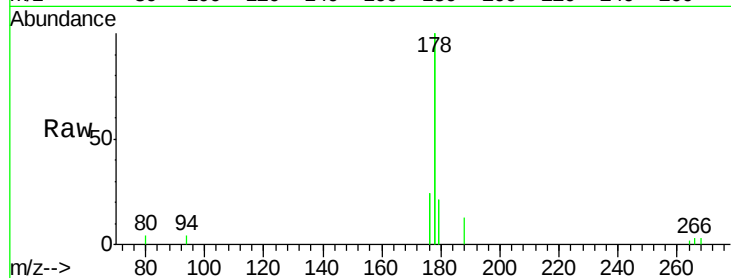
Tot Ion:178 Resp: 6187

Ion Ratio Lower Upper

178 100

176 23.6 17.6 26.4

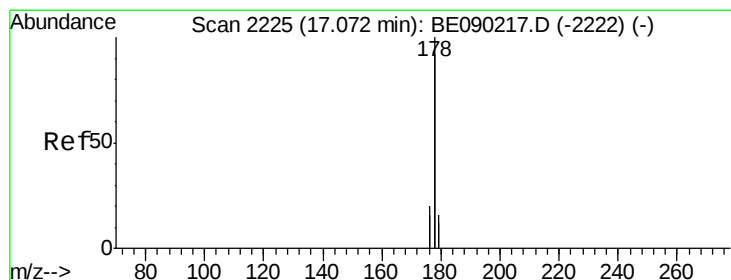
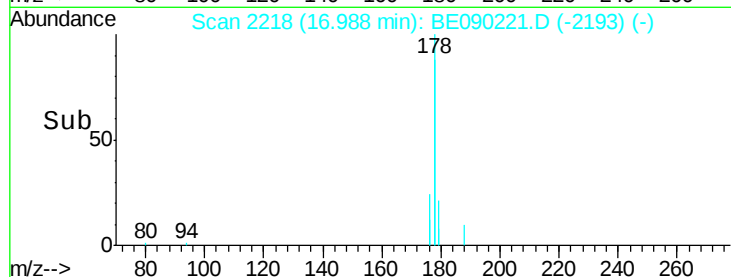
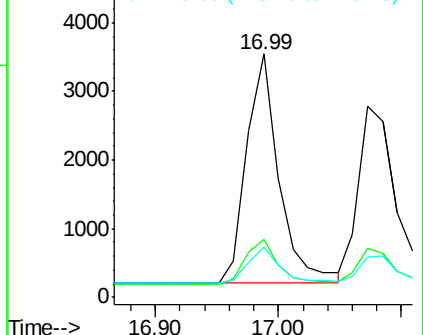
179 20.7 12.2 18.4#



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: 0.10 ng/ul

RT: 17.07 min Scan# 2225

Delta R.T. 0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

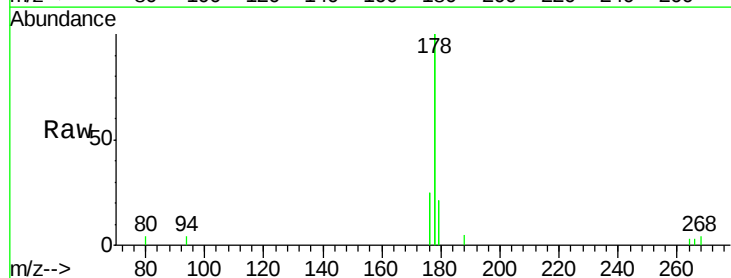
Tgt Ion:178 Resp: 6121

Ion Ratio Lower Upper

178 100

176 25.4 15.9 23.9#

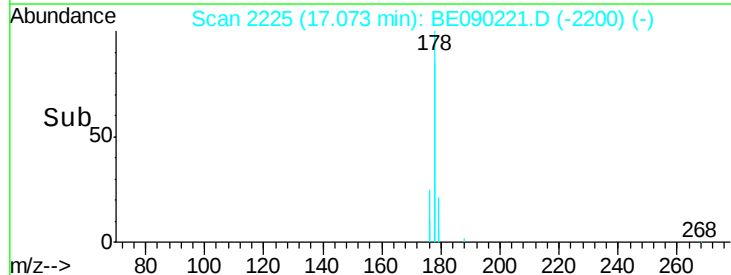
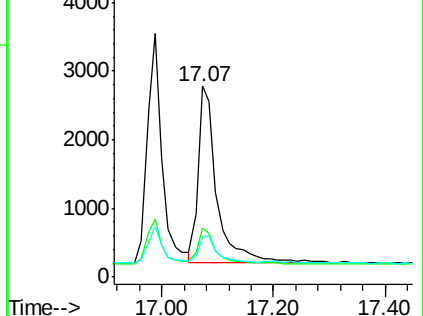
179 21.0 13.3 19.9#

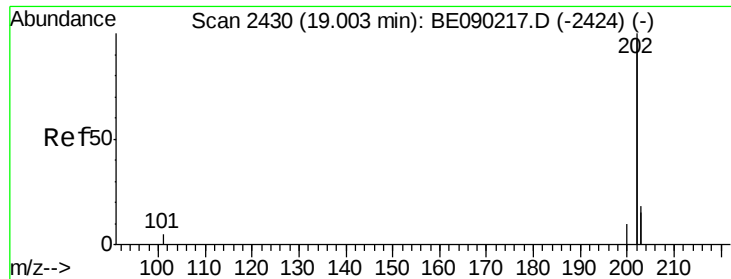


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

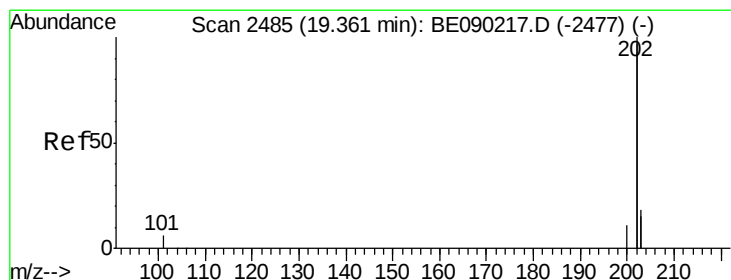
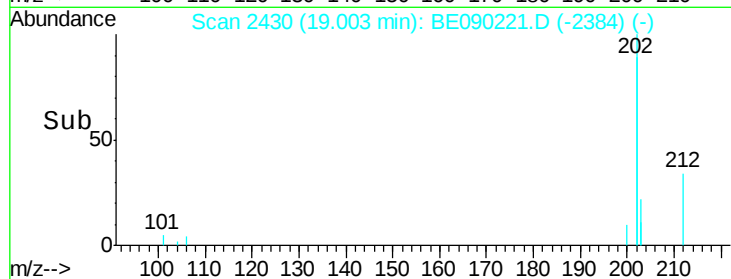
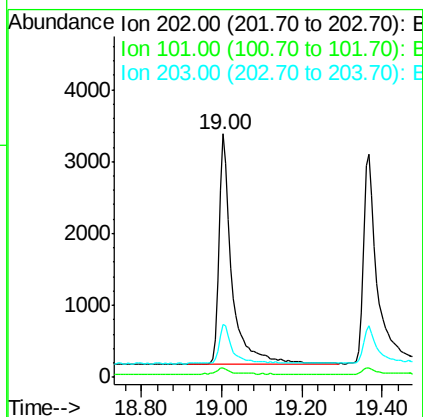
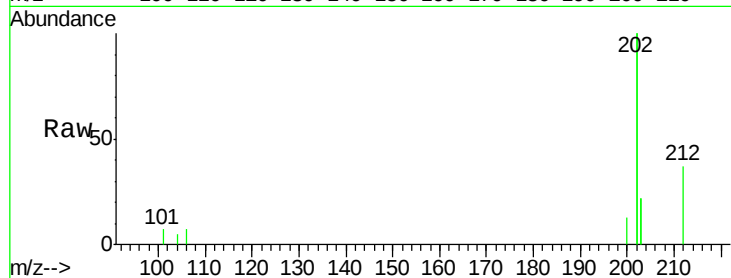




#15
Fluoranthene
Concen: 0.10 ng/ul
RT: 19.00 min Scan# 2430
Delta R.T. -0.00 min
Lab File: BE090221.D
Acq: 22 Jul 2015 5:40

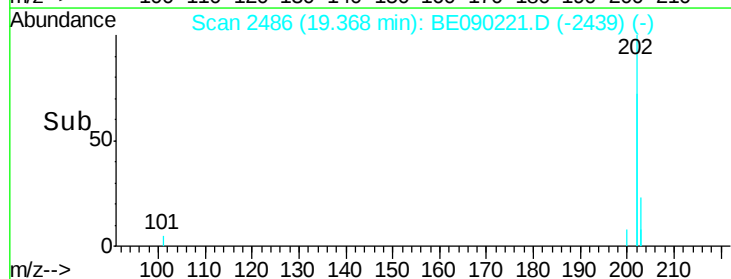
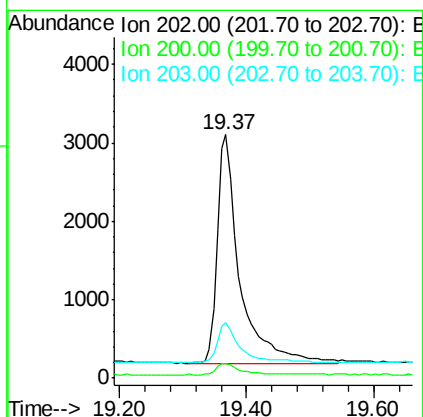
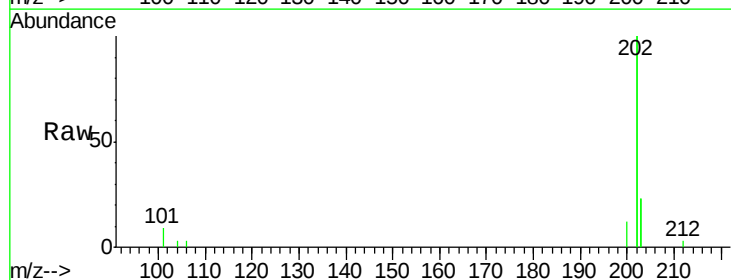
Instrument :
BNA_E
ClientSampleId :

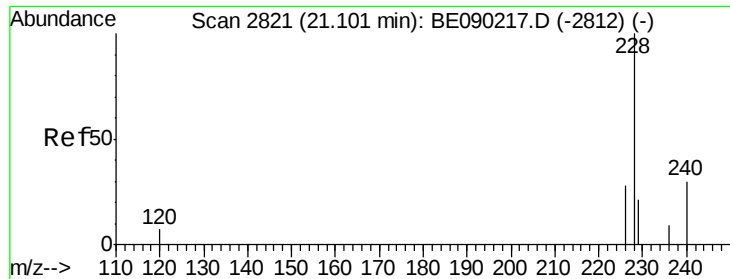
Tot Ion:202 Resp: 7341
Ion Ratio Lower Upper
202 100
101 3.7 0.0 23.0
203 21.7 0.0 37.8



#17
Pyrene
Concen: 0.15 ng/ul
RT: 19.37 min Scan# 2486
Delta R.T. 0.01 min
Lab File: BE090221.D
Acq: 22 Jul 2015 5:40

Tgt Ion:202 Resp: 7130
Ion Ratio Lower Upper
202 100
200 6.1 4.4 6.6
203 22.9 14.6 22.0#





#18

Benzo(a)anthracene

Concen: 0.07 ng/ul

RT: 21.10 min Scan# 2821

Delta R.T. -0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

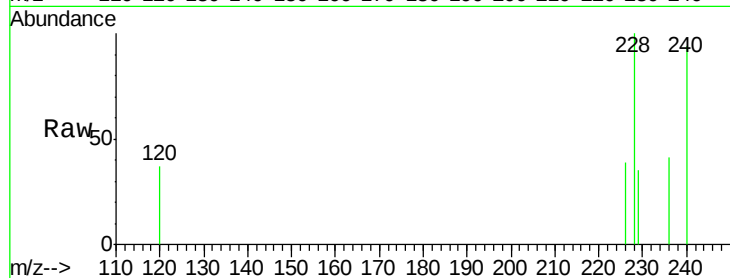
Tot Ion:228 Resp: 340

Ion Ratio Lower Upper

228 100

226 39.2 24.1 36.1#

229 34.9 17.9 26.9#

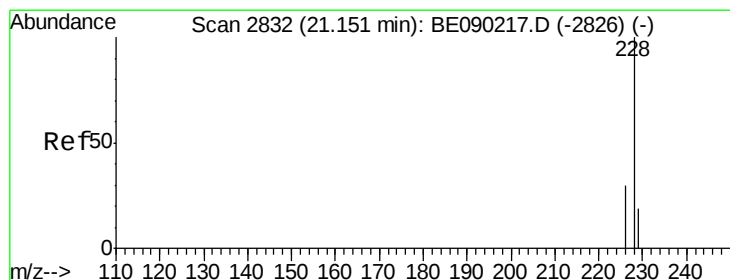
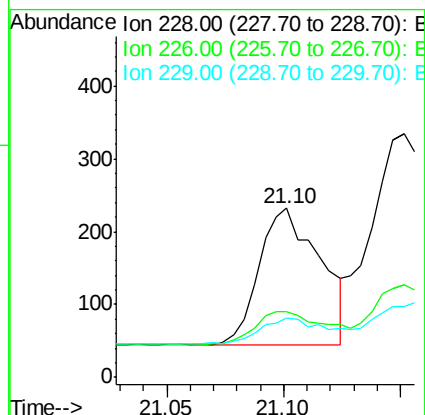
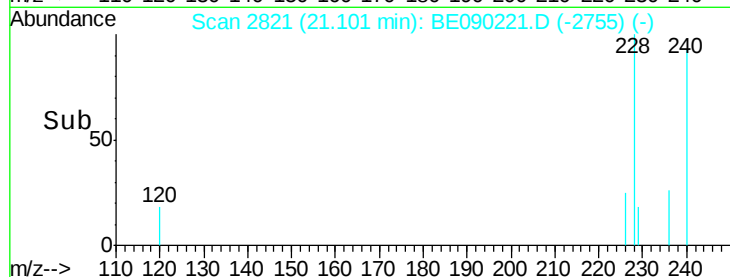


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time--> 21.05 21.10



#19

Chrysene

Concen: 0.08 ng/ul

RT: 21.15 min Scan# 2832

Delta R.T. -0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

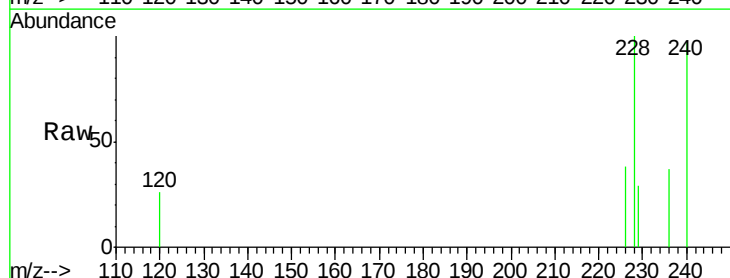
Tgt Ion:228 Resp: 927

Ion Ratio Lower Upper

228 100

226 38.0 24.6 36.8#

229 29.0 17.4 26.2#

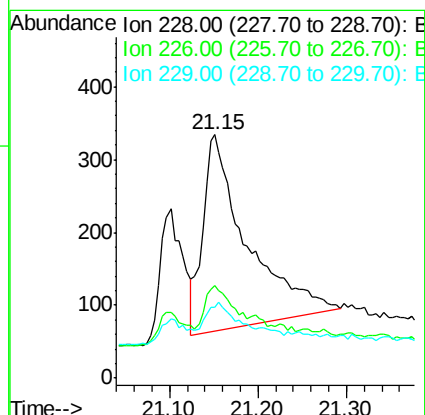
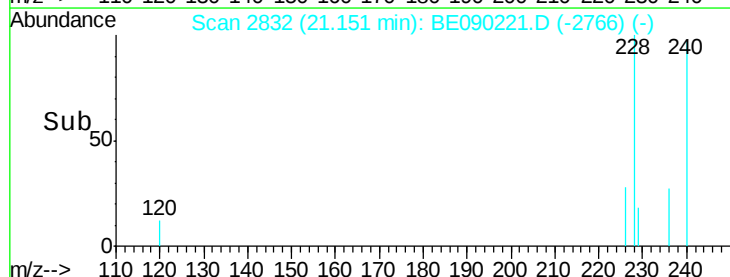


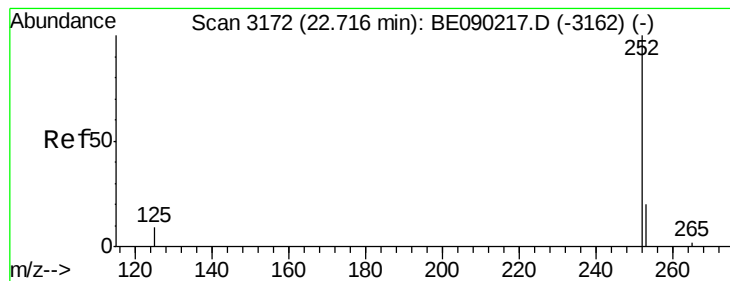
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time--> 21.10 21.15





#21

Benzo(b)fluoranthene

Concen: 0.11 ng/ul

RT: 22.72 min Scan# 3173

Delta R.T. 0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

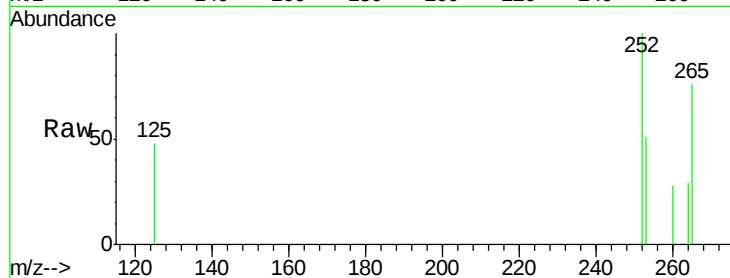
Tot Ion:252 Resp: 217

Ion Ratio Lower Upper

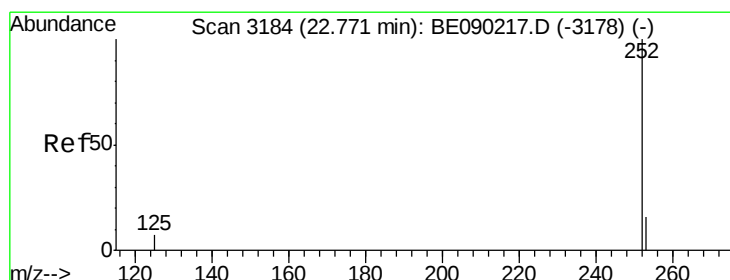
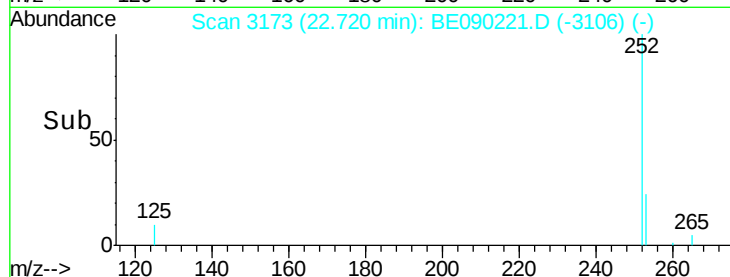
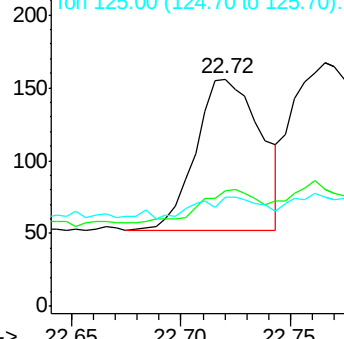
252 100

253 50.6 0.0 56.8

125 48.1 0.0 37.0#



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



#22

Benzo(k)fluoranthene

Concen: 0.05 ng/ul

RT: 22.77 min Scan# 3183

Delta R.T. -0.01 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

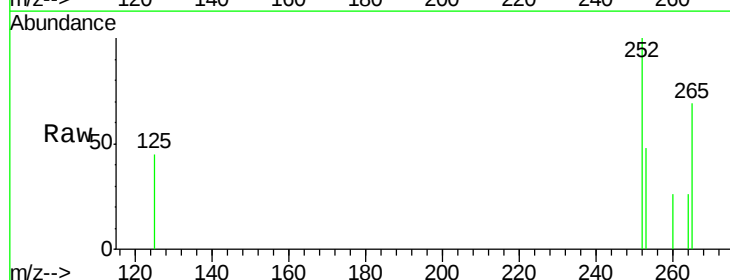
Tgt Ion:252 Resp: 287

Ion Ratio Lower Upper

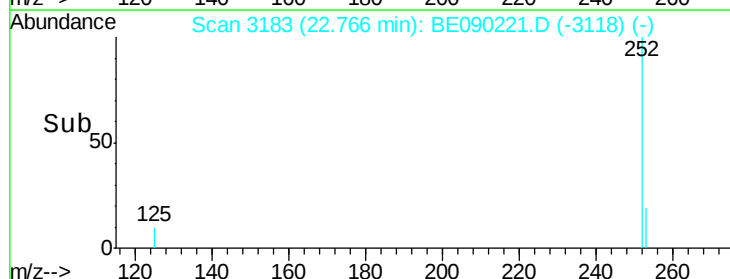
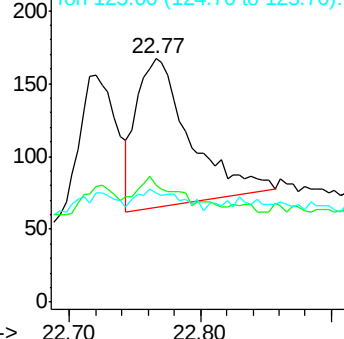
252 100

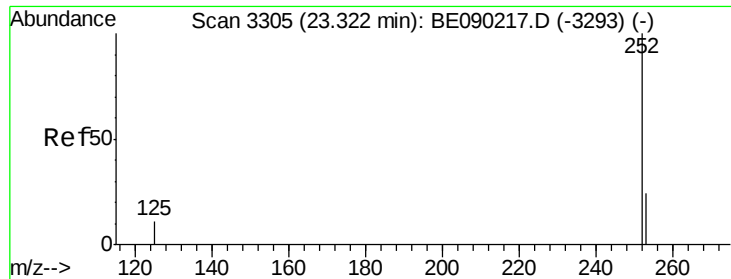
253 47.9 19.5 29.3#

125 44.9 11.9 17.9#



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





#23

Benzo(a)pyrene

Concen: 0.07 ng/ul

RT: 23.32 min Scan# 3305

Delta R.T. -0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

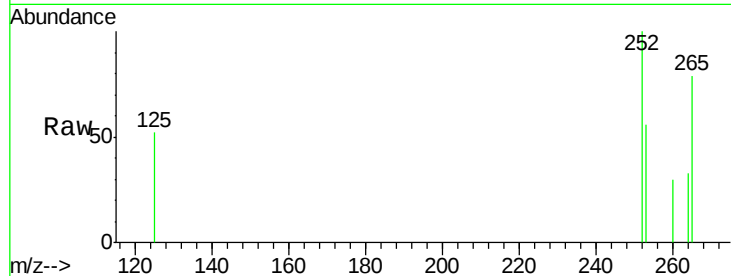
Tot Ion:252 Resp: 199

Ion Ratio Lower Upper

252 100

253 55.9 23.7 35.5#

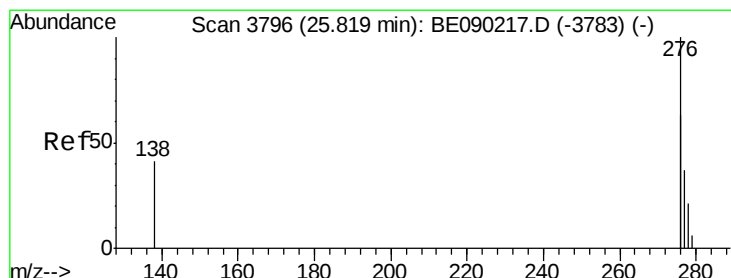
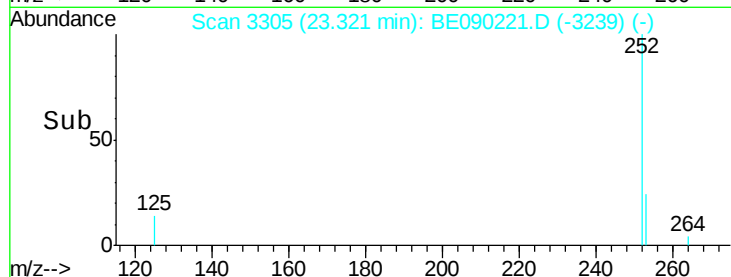
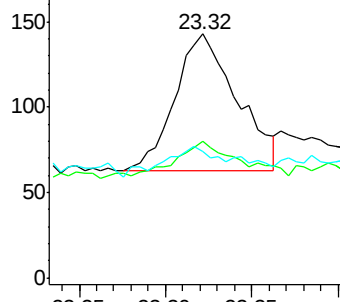
125 51.7 15.4 23.2#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.08 ng/ul

RT: 25.82 min Scan# 3796

Delta R.T. 0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

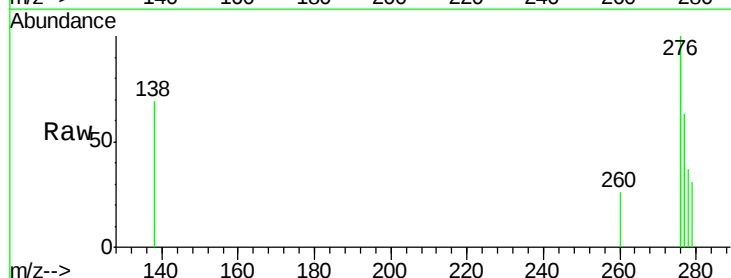
Tgt Ion:276 Resp: 681

Ion Ratio Lower Upper

276 100

138 25.3 16.9 25.3

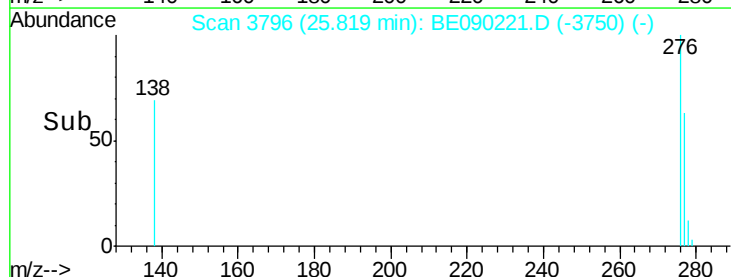
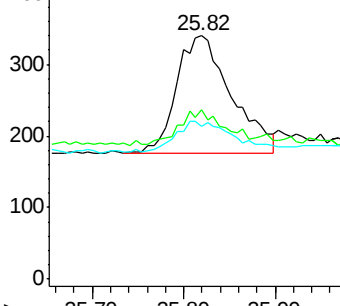
277 27.5 17.0 25.4#

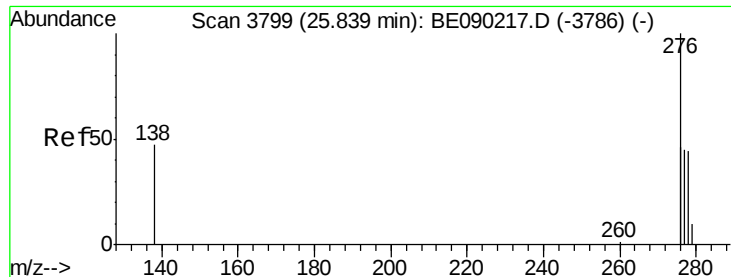


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.09 ng/ul

RT: 25.84 min Scan# 3799

Delta R.T. 0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

Instrument :

BNA_E

ClientSampleId :

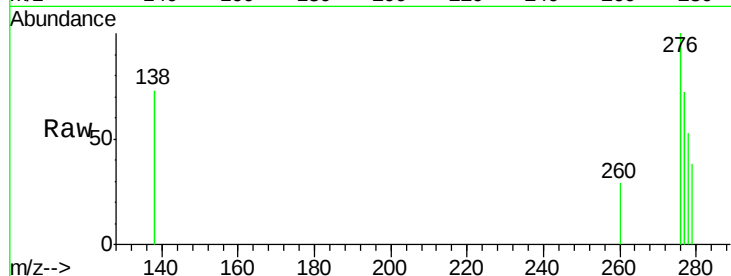
Tot Ion:278 Resp: 127

Ion Ratio Lower Upper

278 100

139 0.0 0.0 0.0

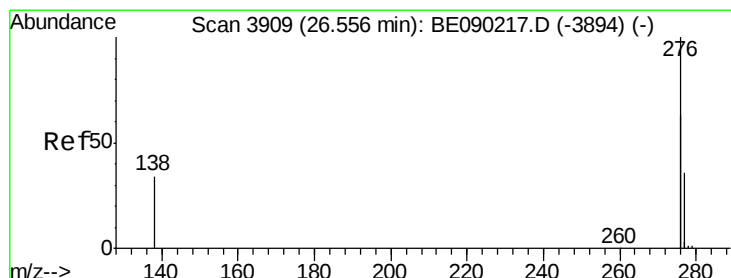
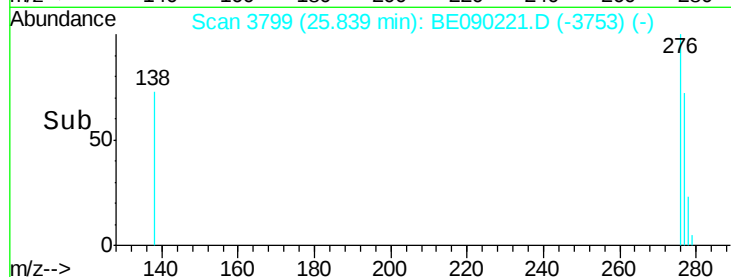
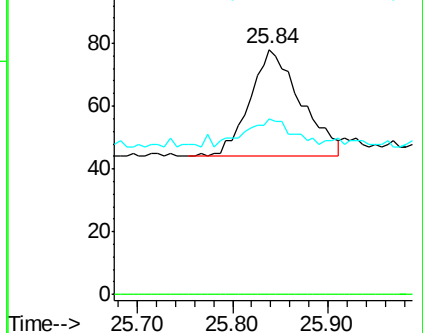
279 71.8 30.1 45.1#



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: 0.07 ng/ul

RT: 26.56 min Scan# 3909

Delta R.T. 0.00 min

Lab File: BE090221.D

Acq: 22 Jul 2015 5:40

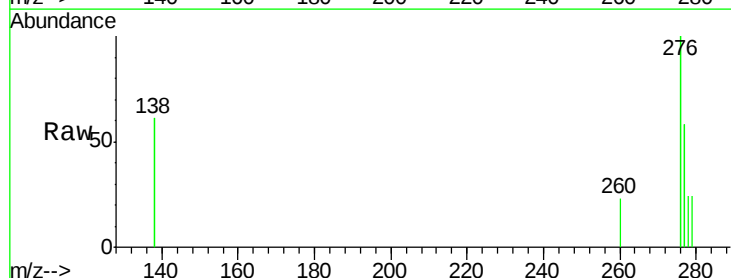
Tgt Ion:276 Resp: 882

Ion Ratio Lower Upper

276 100

277 57.8 24.6 36.8#

138 61.5 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

