

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089447.D
 Acq On : 30 Jan 2015 20:39
 Operator : TP/IZ
 Sample : G1150-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Quant Time: Feb 02 00:12:42 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	80648	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	328449	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	159881	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	270957	5.00	ng	0.00
16) Chrysene-d12	23.84	240	246294	5.00	ng	0.00
22) Perylene-d12	25.55	264	214515	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	122267	5.62	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	215067	5.11	ng	0.00
18) Terphenyl-d14	22.48	244	236957	6.43	ng	0.00

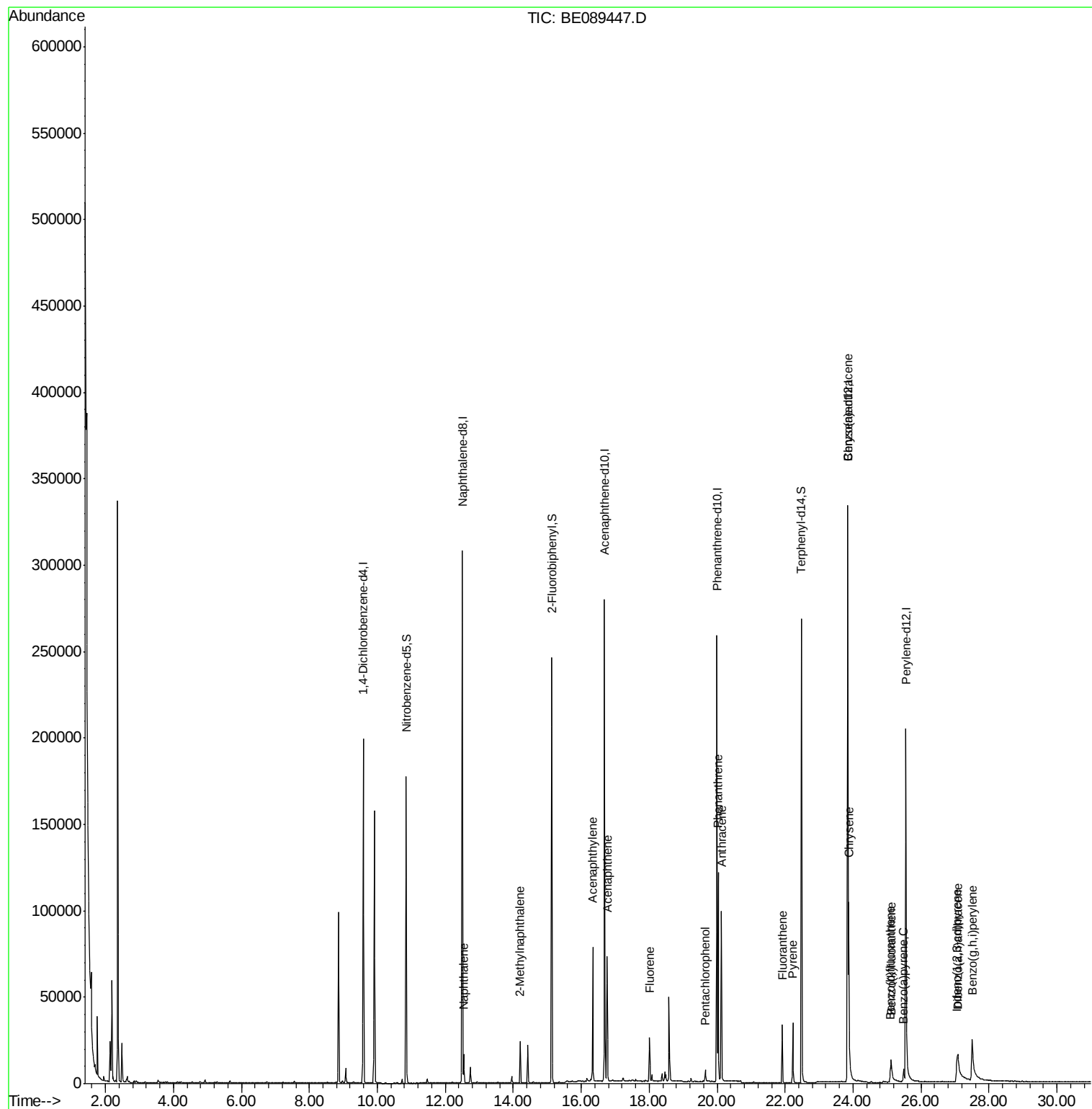
Target Compounds					Qvalue	
4) Naphthalene	12.54	128	18517	0.24	ng	99
5) 2-Methylnaphthalene	14.20	142	14595	0.31	ng	96
8) Acenaphthylene	16.34	152	93681	0.33	ng	100
9) Acenaphthene	16.76	154	14581	0.34	ng	98
10) Fluorene	18.02	166	17072	0.36	ng	99
12) Pentachlorophenol	19.66	266	4268	2.88	ng	96
13) Phenanthrene	20.03	178	107034	0.40	ng	99
14) Anthracene	20.12	178	93634	0.39	ng	100
15) Fluoranthene	21.91	202	24518	0.42	ng	99
17) Pyrene	22.23	202	25490	0.39	ng	99
19) Benzo(a)anthracene	23.83	228	79036	0.38	ng	97
20) Chrysene	23.87	228	99822	0.43	ng	96
21) Indeno(1,2,3-cd)pyrene	27.06	276	59035	0.29	ng	94
23) Benzo(b)fluoranthene	25.10	252	10084	0.44	ng	97
24) Benzo(k)fluoranthene	25.13	252	25960	0.48	ng	98
25) Benzo(a)pyrene	25.48	252	11213	0.40	ng	# 96
26) Dibenzo(a,h)anthracene	27.09	278	10599	0.37	ng	94
27) Benzo(g,h,i)perylene	27.51	276	64264	0.37	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

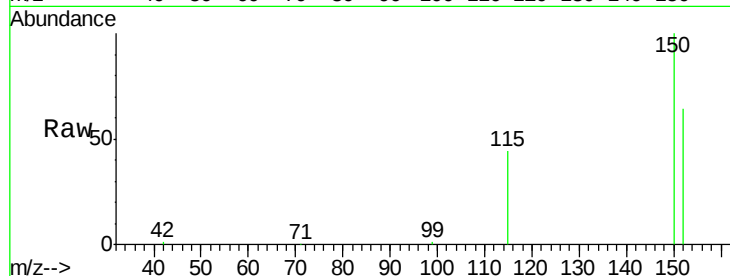
Tgt Ion:152 Resp: 80648

Ion Ratio Lower Upper

152 100

150 155.8 127.2 190.8

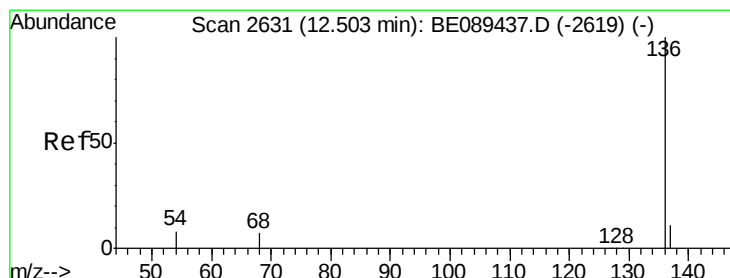
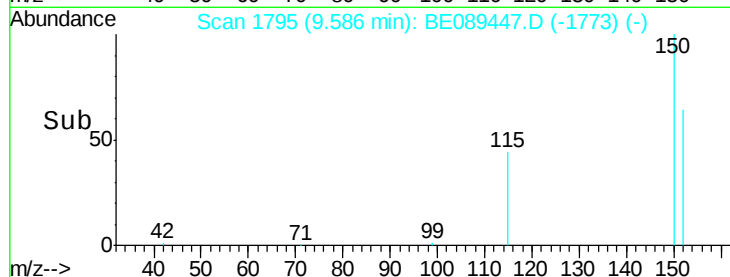
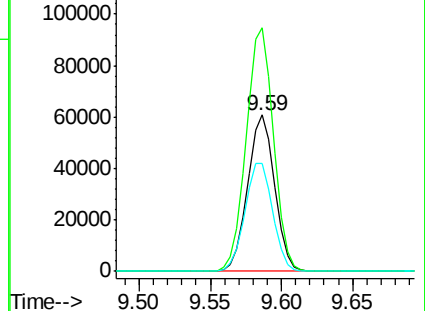
115 69.0 57.5 86.3



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

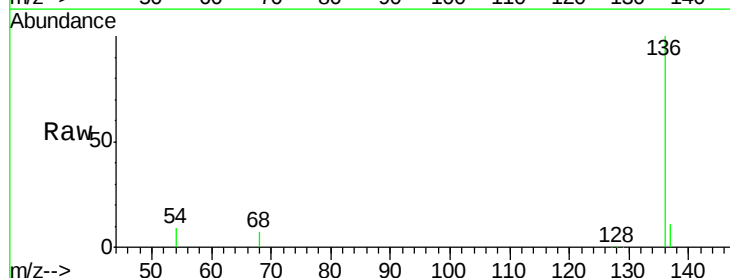
Tgt Ion:136 Resp: 328449

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

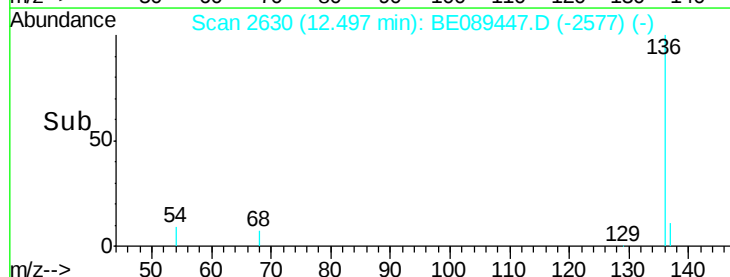
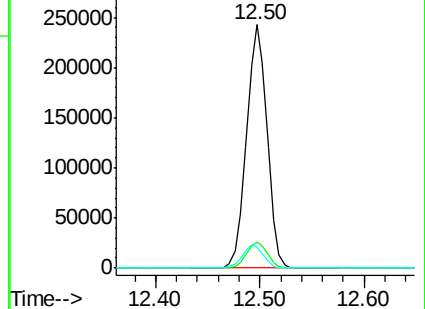
54 8.8 6.6 10.0



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





#3

Nitrobenzene-d5

Concen: 5.62 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

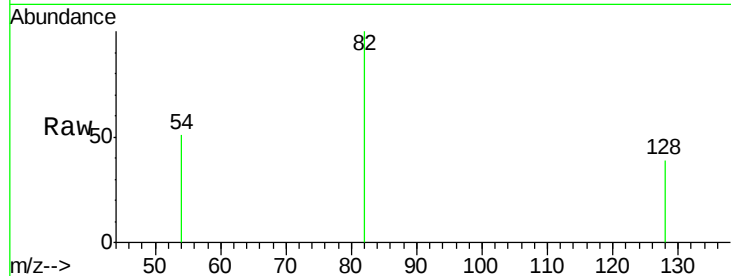
Tgt Ion: 82 Resp: 122267

Ion Ratio Lower Upper

82 100

128 39.4 31.2 46.8

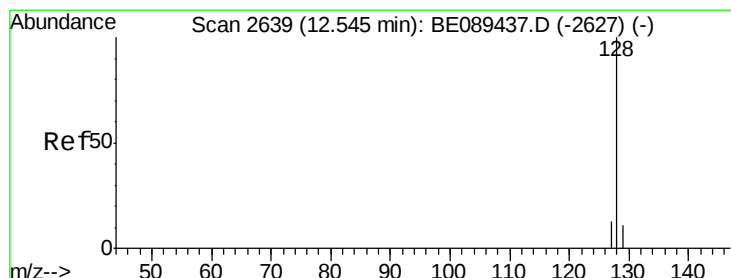
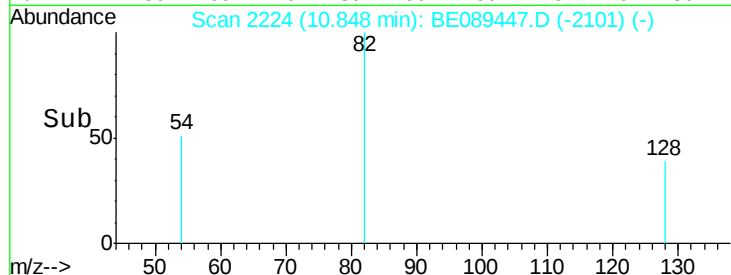
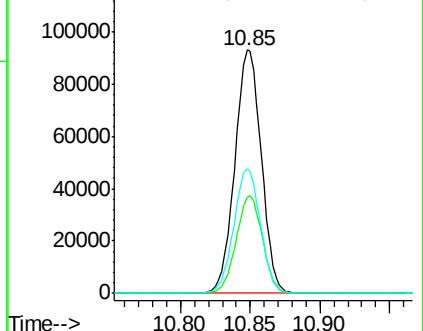
54 51.4 41.9 62.9



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



#4

Naphthalene

Concen: 0.24 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

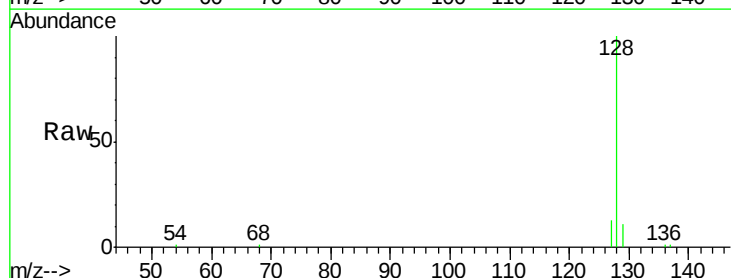
Tgt Ion: 128 Resp: 18517

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

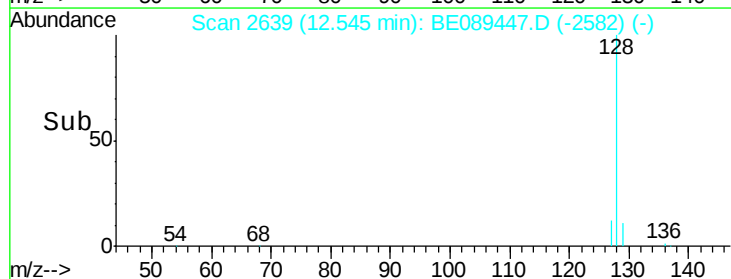
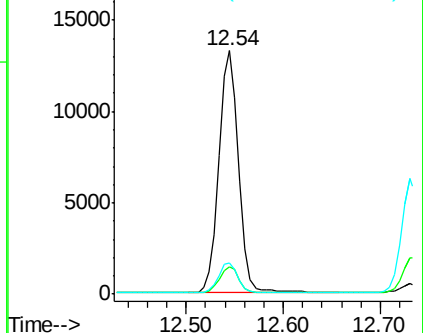
127 12.5 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#5

2-Methylnaphthalene

Concen: 0.31 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

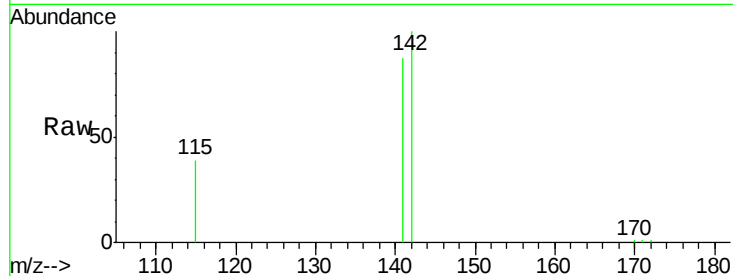
Tgt Ion:142 Resp: 14595

Ion Ratio Lower Upper

142 100

141 86.9 66.1 99.1

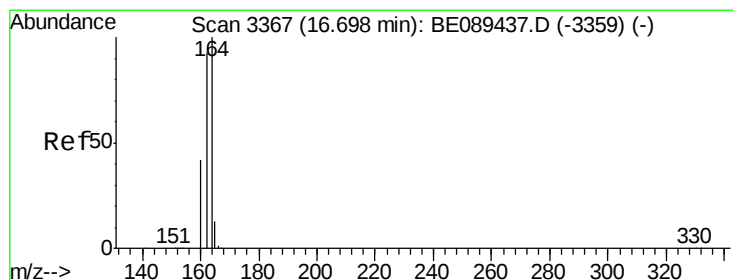
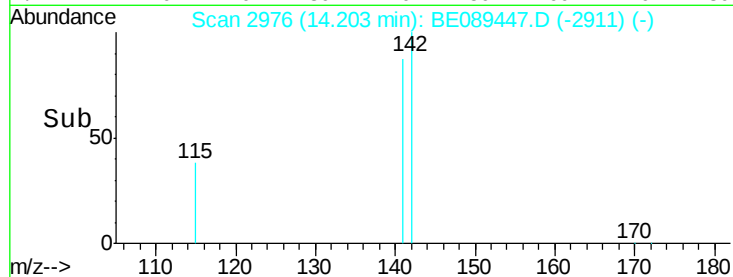
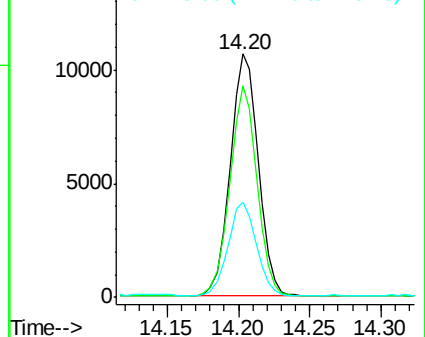
115 38.8 29.9 44.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

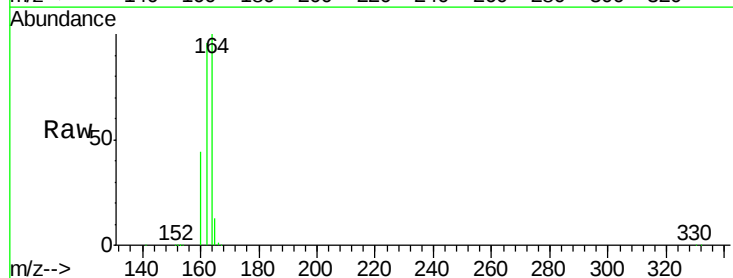
Tgt Ion:164 Resp: 159881

Ion Ratio Lower Upper

164 100

162 95.6 74.7 112.1

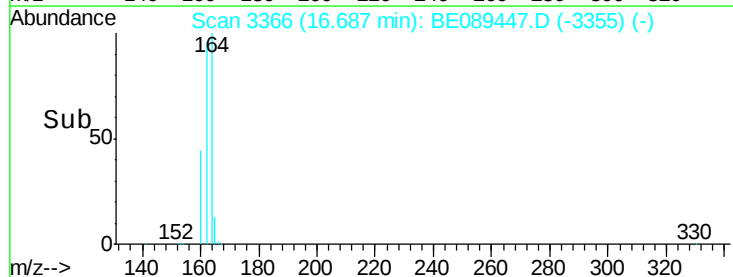
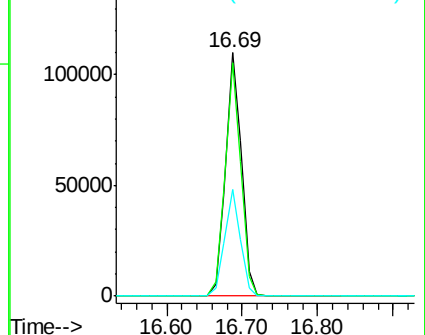
160 44.1 33.4 50.0



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





#7

2-Fluorobiphenyl

Concen: 5.11 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

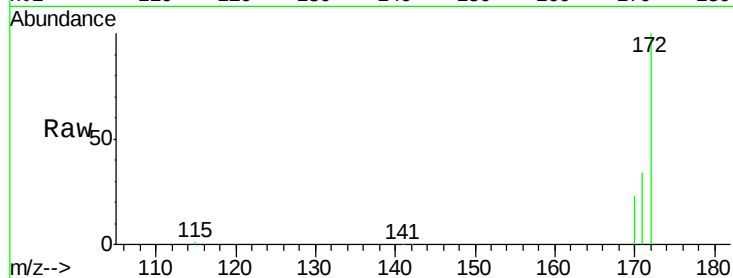
Tgt Ion:172 Resp: 215067

Ion Ratio Lower Upper

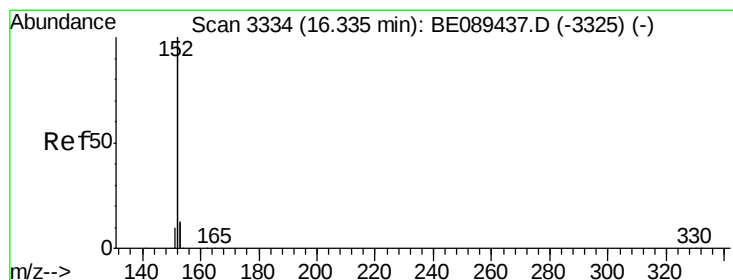
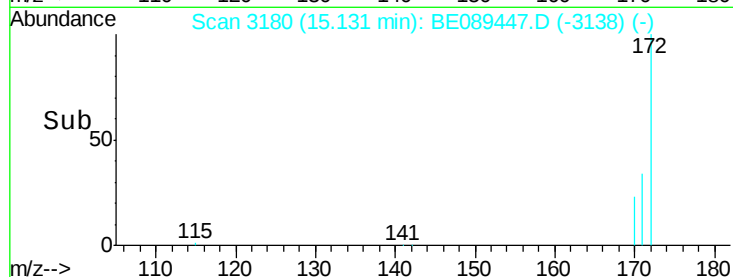
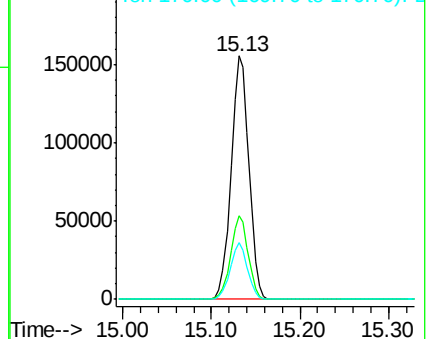
172 100

171 34.4 26.2 39.4

170 23.1 16.5 24.7



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



#8

Acenaphthylene

Concen: 0.33 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

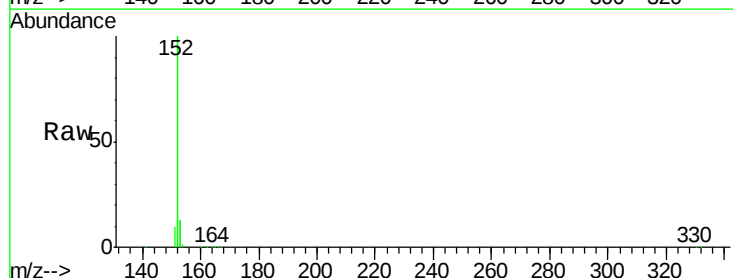
Tgt Ion:152 Resp: 93681

Ion Ratio Lower Upper

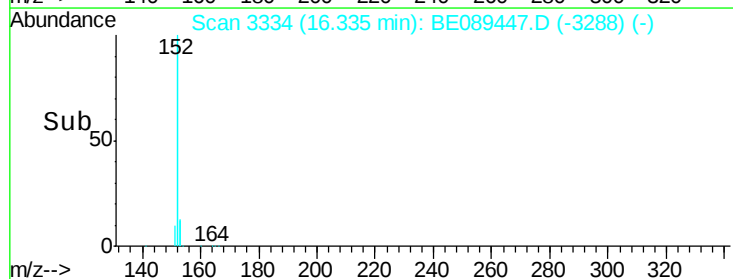
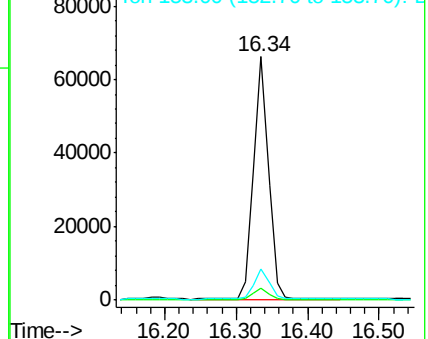
152 100

151 5.1 3.9 5.9

153 13.1 10.3 15.5



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





#9

Acenaphthene

Concen: 0.34 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

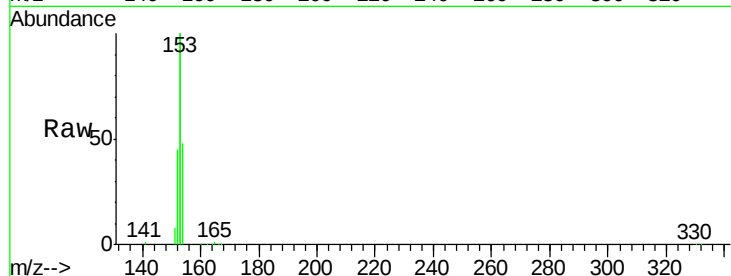
Tgt Ion:154 Resp: 14581

Ion Ratio Lower Upper

154 100

153 433.3 342.3 513.5

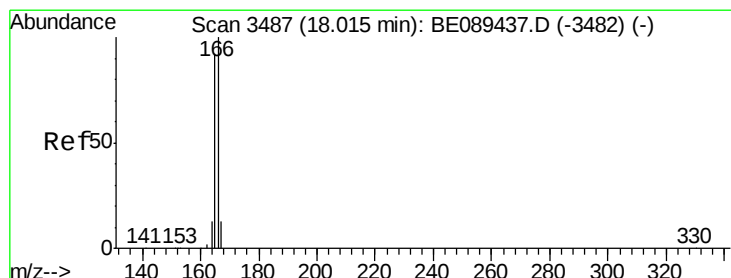
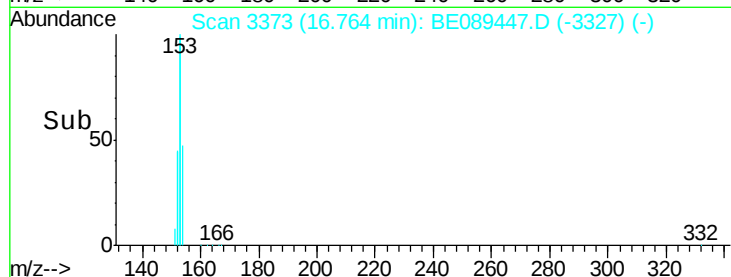
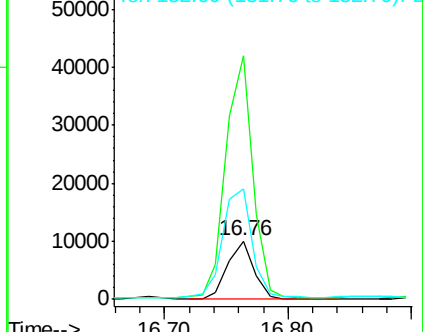
152 211.6 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.36 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

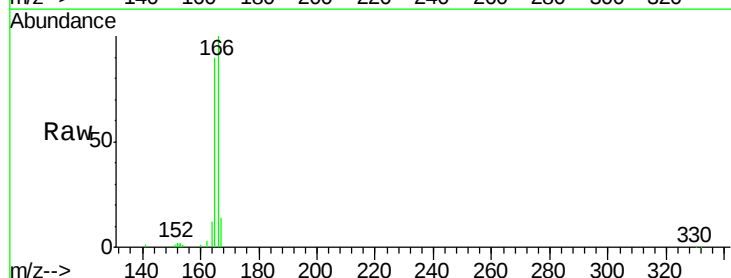
Tgt Ion:166 Resp: 17072

Ion Ratio Lower Upper

166 100

165 91.9 74.4 111.6

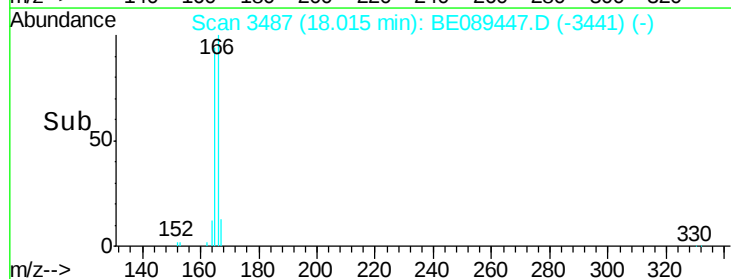
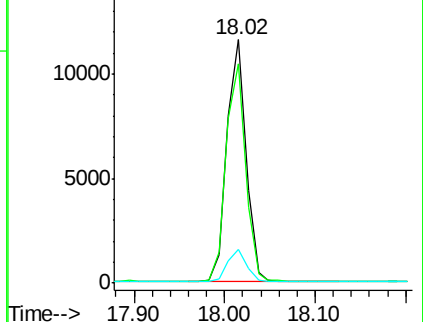
167 13.5 10.6 15.8



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

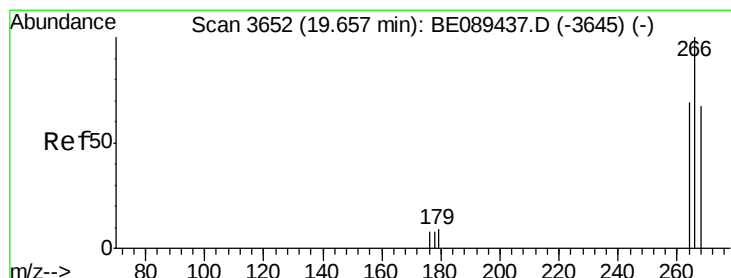
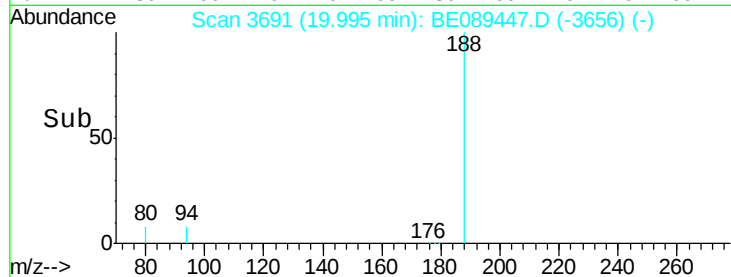
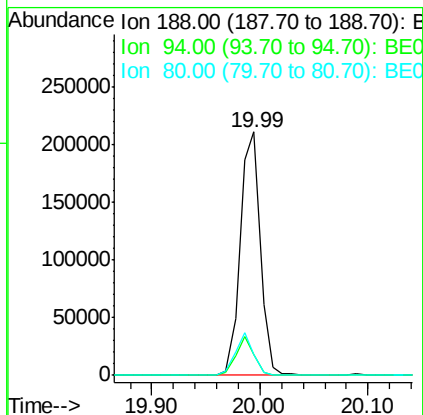
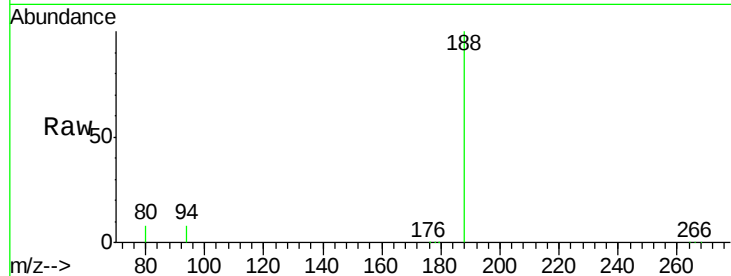




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BE089447.D
Acq: 30 Jan 2015 20:39

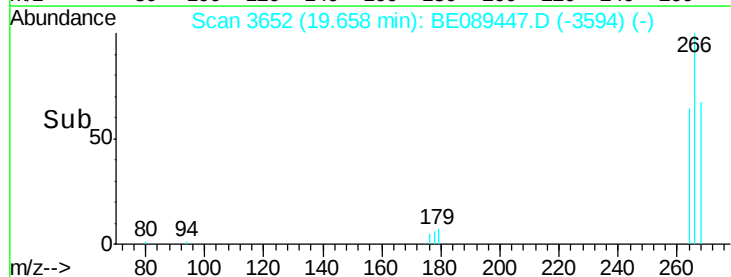
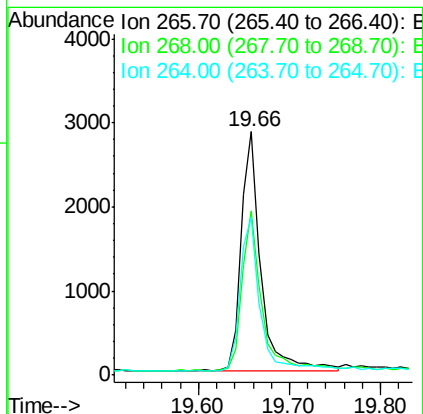
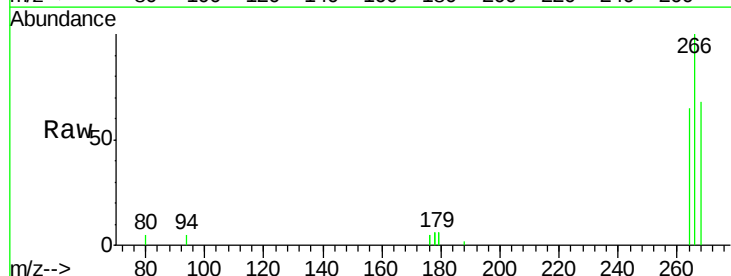
Instrument :
BNA_E
ClientSampled :
MW-2

Tgt Ion:188 Resp: 270957
Ion Ratio Lower Upper
188 100
94 8.4 9.4 14.0#
80 8.3 9.3 13.9#



#12
Pentachlorophenol
Concen: 2.88 ng
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089447.D
Acq: 30 Jan 2015 20:39

Tgt Ion:266 Resp: 4268
Ion Ratio Lower Upper
266 100
268 67.6 54.2 81.4
264 64.7 56.2 84.2

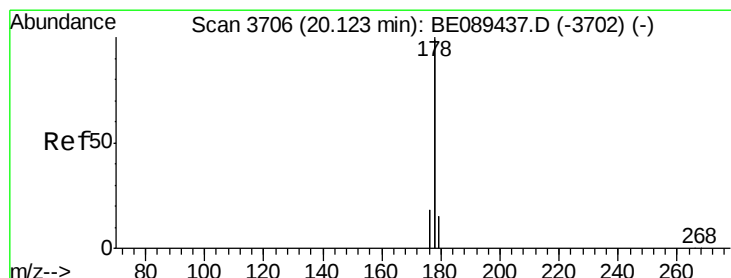
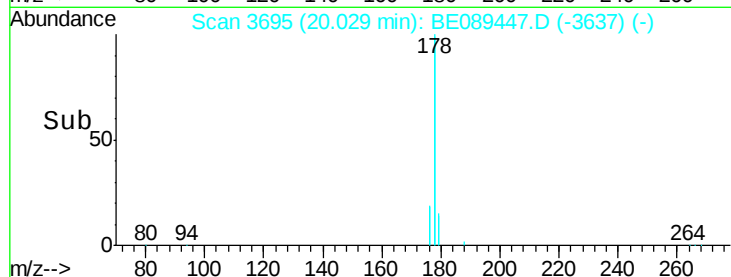
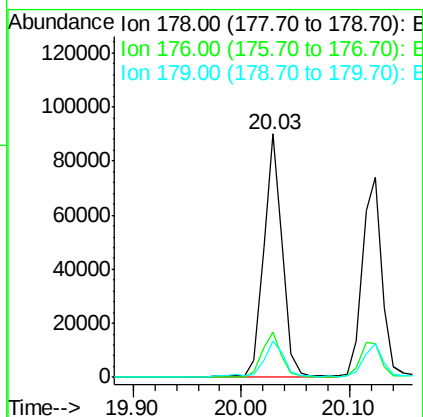
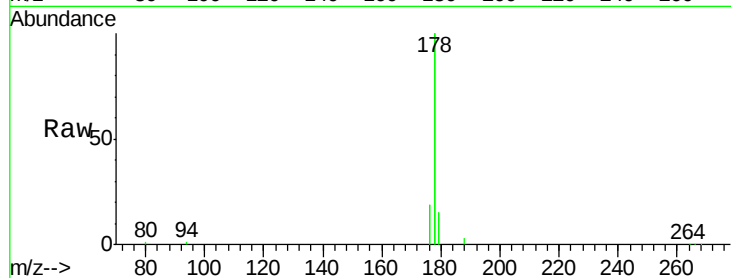




#13
Phenanthrene
Concen: 0.40 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089447.D
Acq: 30 Jan 2015 20:39

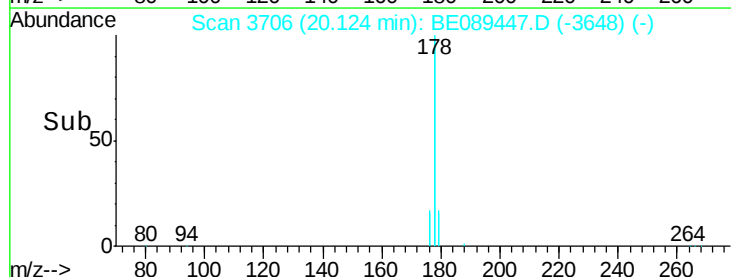
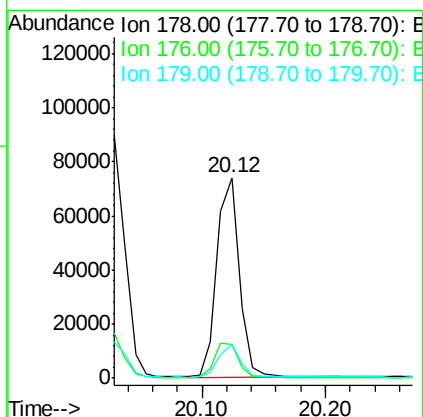
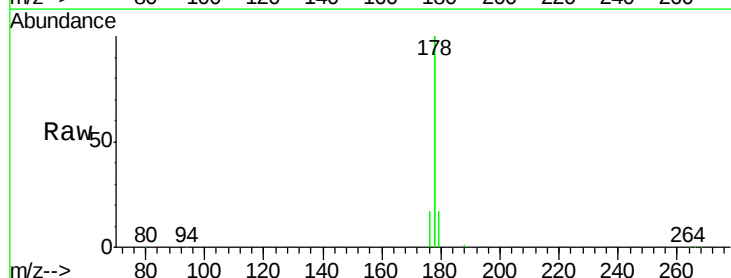
Instrument :
BNA_E
ClientSampleId :
MW-2

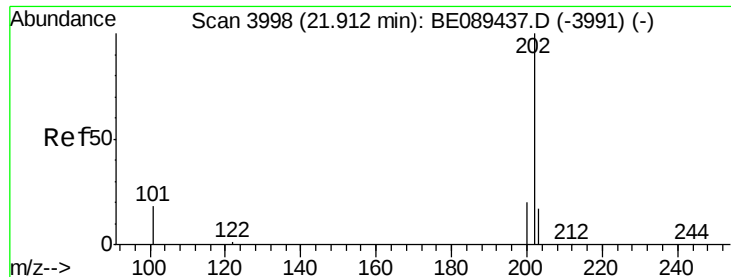
Tgt Ion:178 Resp: 107034
Ion Ratio Lower Upper
178 100
176 18.6 15.1 22.7
179 15.9 12.3 18.5



#14
Anthracene
Concen: 0.39 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089447.D
Acq: 30 Jan 2015 20:39

Tgt Ion:178 Resp: 93634
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.1 12.2 18.2

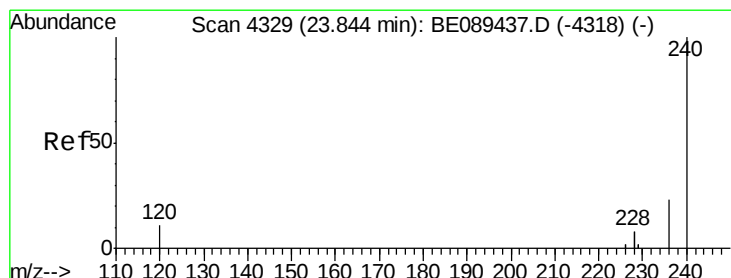
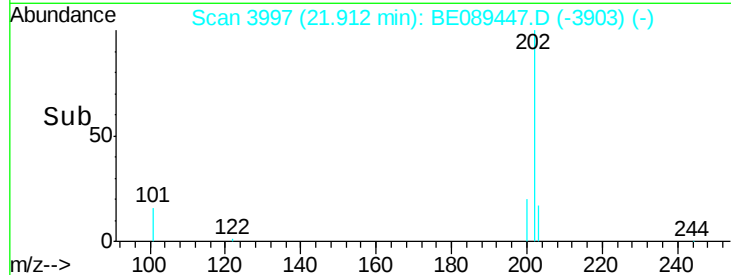
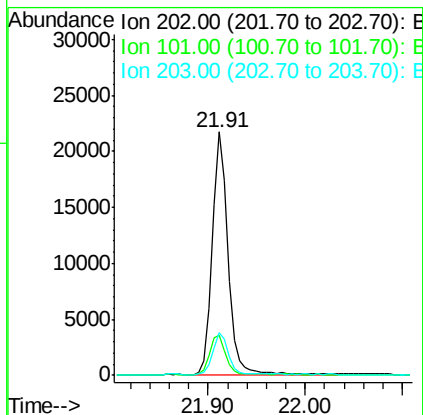
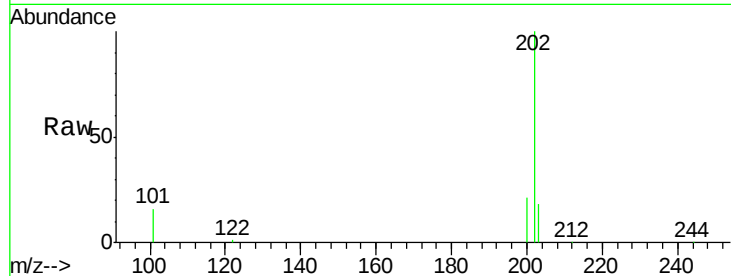




#15
Fluoranthene
 Concen: 0.42 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089447.D
 Acq: 30 Jan 2015 20:39

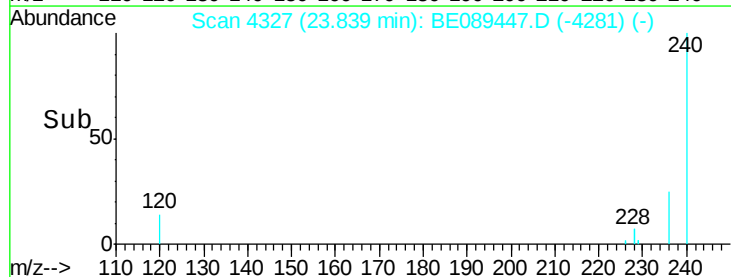
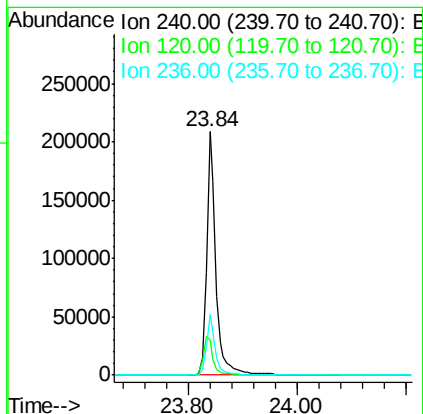
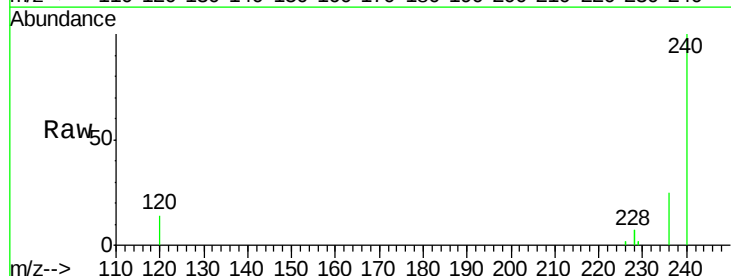
Instrument :
 BNA_E
 ClientSampleId :
 MW-2

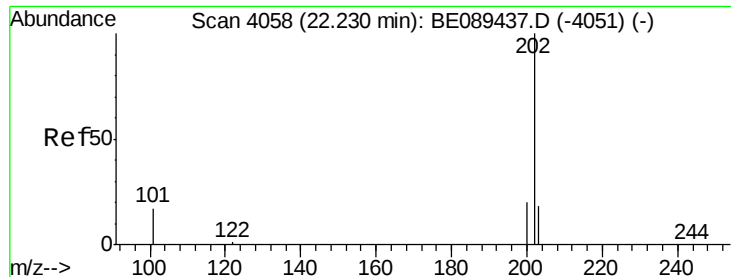
Tgt Ion: 202 Resp: 24518
 Ion Ratio Lower Upper
 202 100
 101 16.3 13.6 20.4
 203 17.1 13.8 20.6



#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.00 min
 Lab File: BE089447.D
 Acq: 30 Jan 2015 20:39

Tgt Ion: 240 Resp: 246294
 Ion Ratio Lower Upper
 240 100
 120 14.4 8.6 13.0#
 236 24.6 18.7 28.1





#17

Pyrene

Concen: 0.39 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

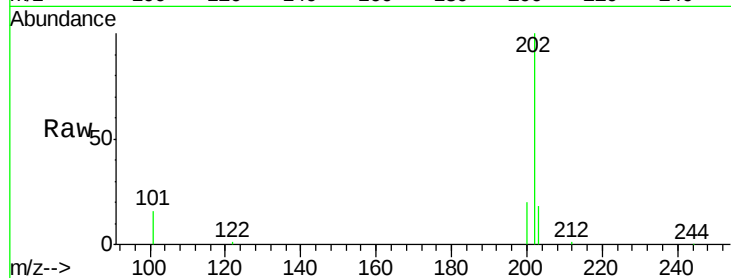
Tgt Ion:202 Resp: 25490

Ion Ratio Lower Upper

202 100

200 20.5 16.2 24.4

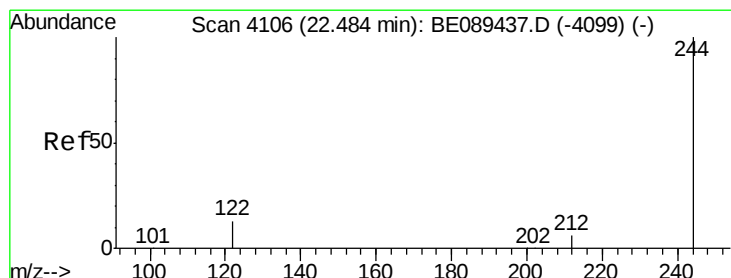
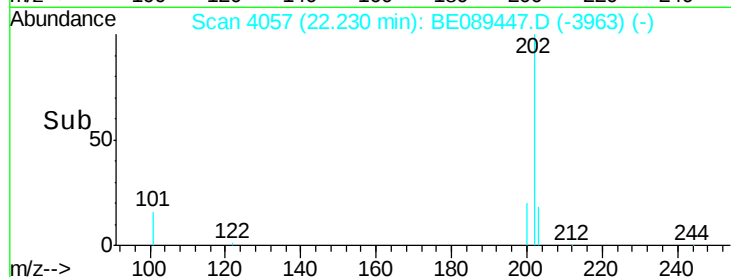
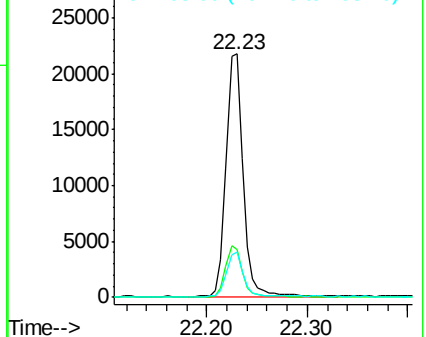
203 18.2 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 6.43 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

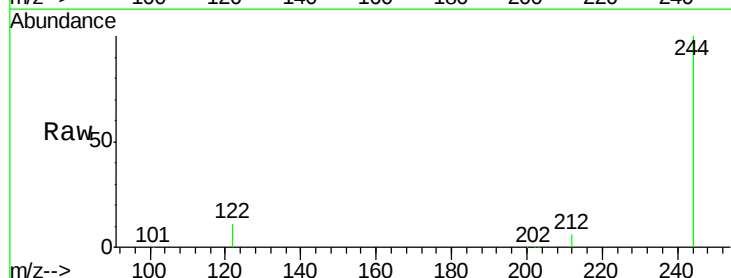
Tgt Ion:244 Resp: 236957

Ion Ratio Lower Upper

244 100

212 6.3 5.0 7.6

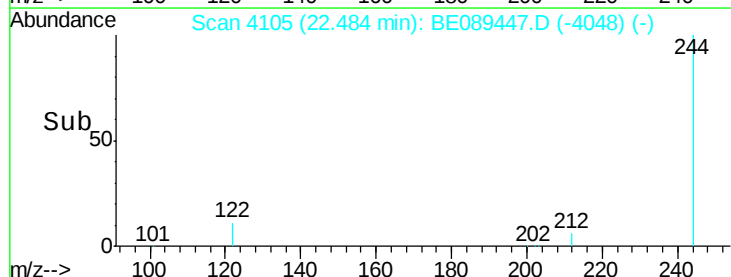
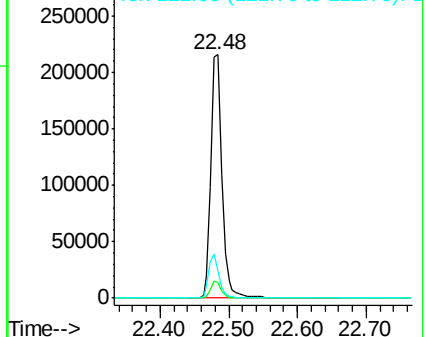
122 11.3 10.2 15.4



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





#19

Benzo(a)anthracene

Concen: 0.38 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

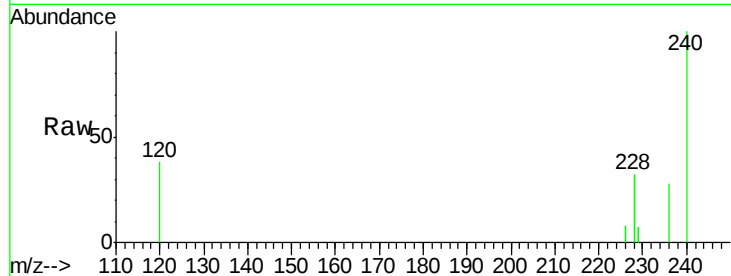
Tgt Ion:228 Resp: 79036

Ion Ratio Lower Upper

228 100

226 23.8 20.0 30.0

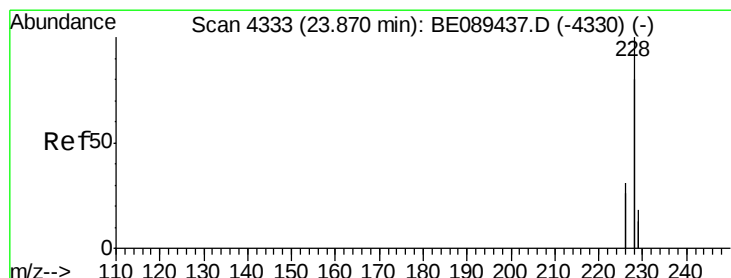
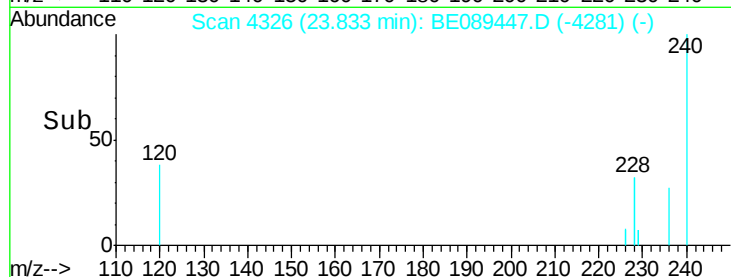
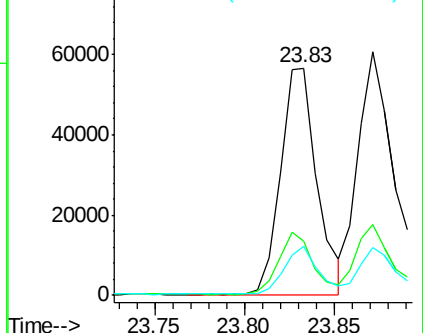
229 21.4 16.0 24.0



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



#20

Chrysene

Concen: 0.43 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

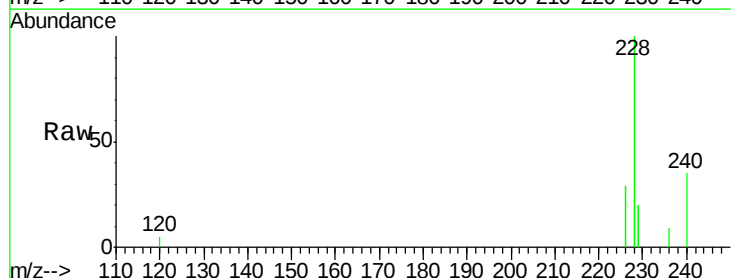
Tgt Ion:228 Resp: 99822

Ion Ratio Lower Upper

228 100

226 29.0 24.5 36.7

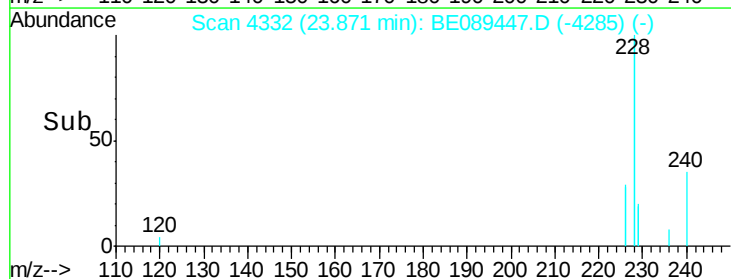
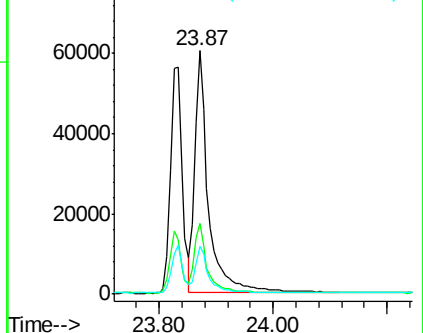
229 19.8 14.1 21.1



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.29 ng

RT: 27.06 min Scan# 4947

Delta R.T. -0.01 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

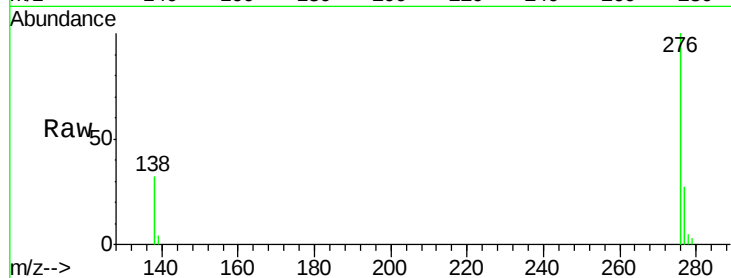
Tgt Ion:276 Resp: 59035

Ion Ratio Lower Upper

276 100

138 28.4 25.4 38.0

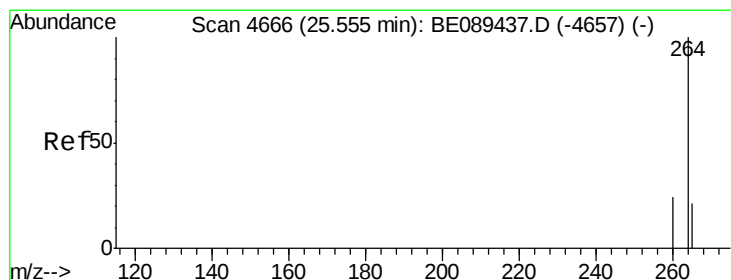
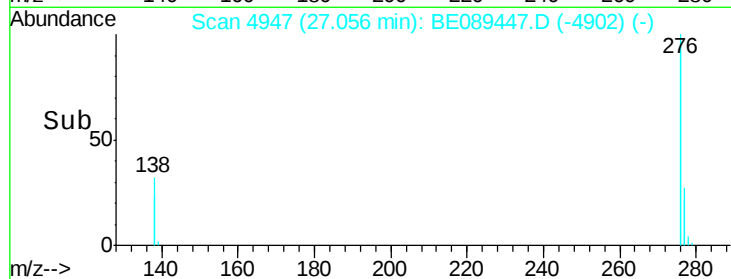
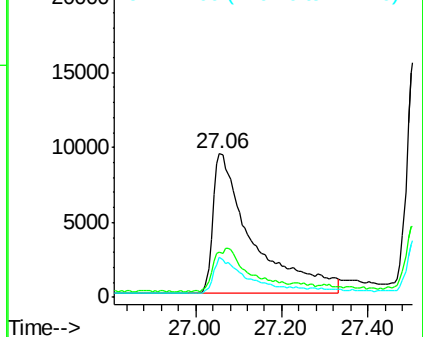
277 21.3 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4663

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

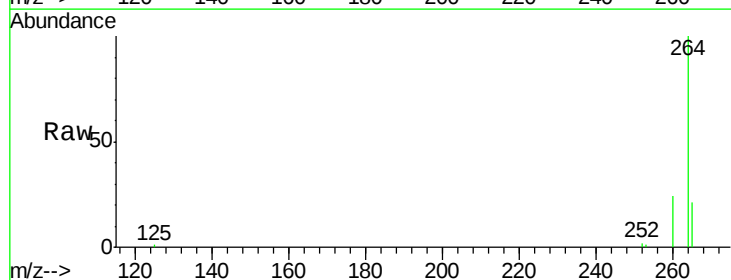
Tgt Ion:264 Resp: 214515

Ion Ratio Lower Upper

264 100

260 24.4 19.4 29.0

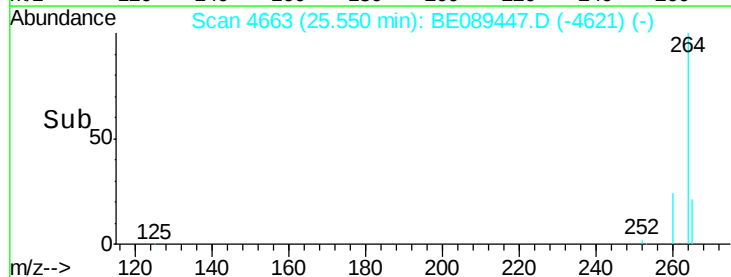
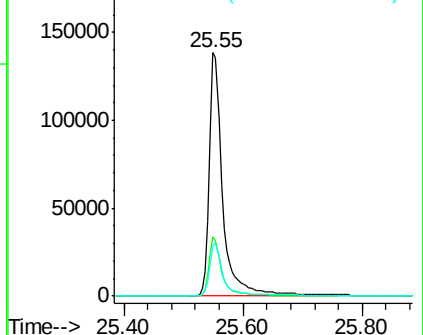
265 20.9 17.0 25.6



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.44 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

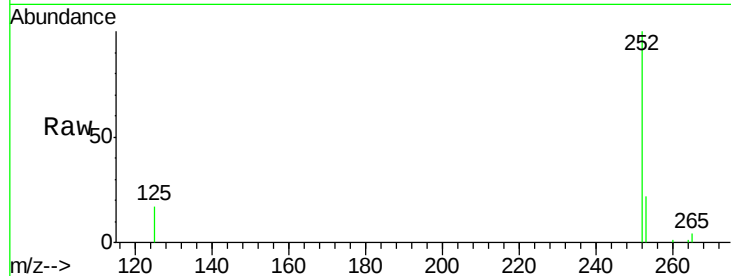
Tgt Ion:252 Resp: 10084

Ion Ratio Lower Upper

252 100

253 21.9 17.0 25.6

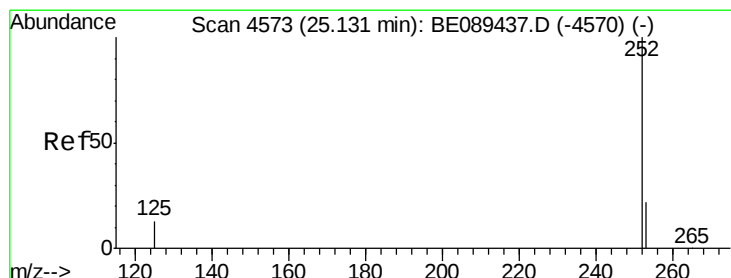
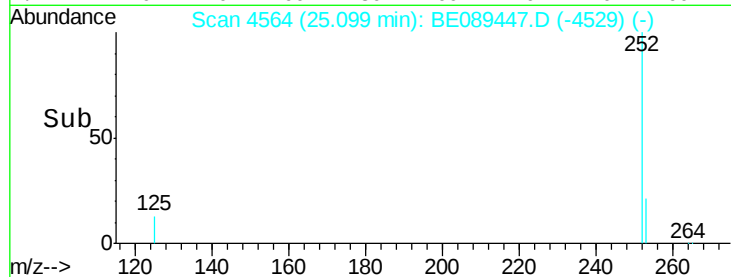
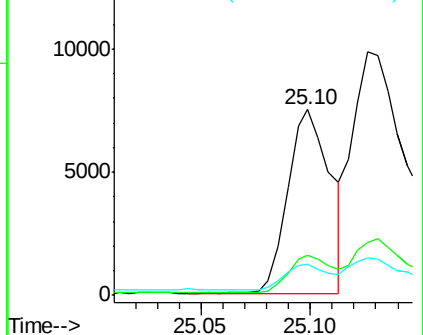
125 16.8 11.4 17.0



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



#24

Benzo(k)fluoranthene

Concen: 0.48 ng

RT: 25.13 min Scan# 4570

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

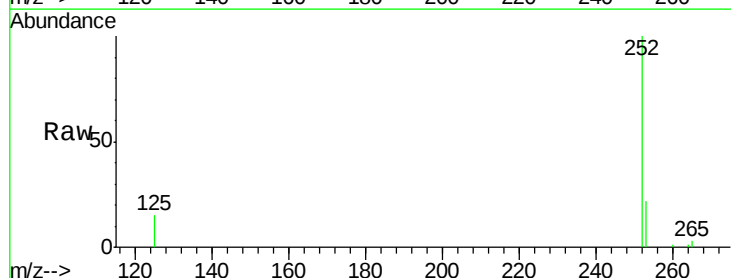
Tgt Ion:252 Resp: 25960

Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.2

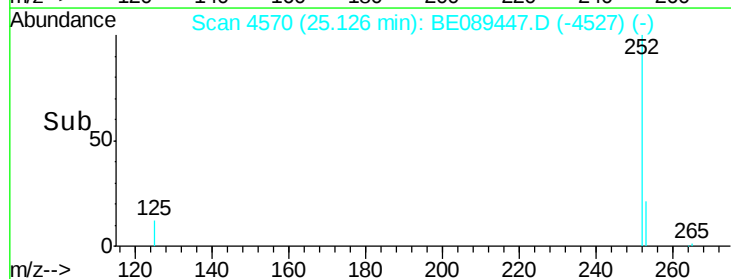
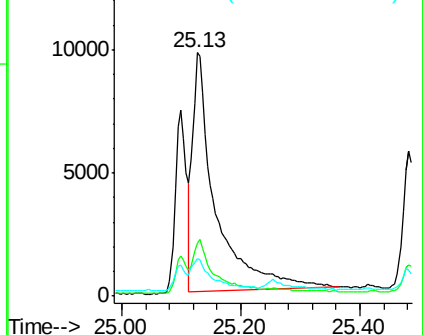
125 15.2 10.9 16.3



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





#25

Benzo(a)pyrene

Concen: 0.40 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

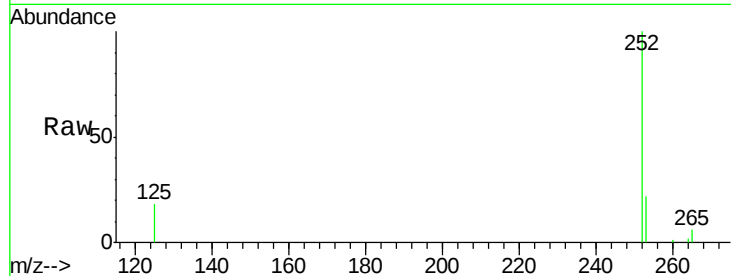
Tgt Ion:252 Resp: 11213

Ion Ratio Lower Upper

252 100

253 21.9 17.3 25.9

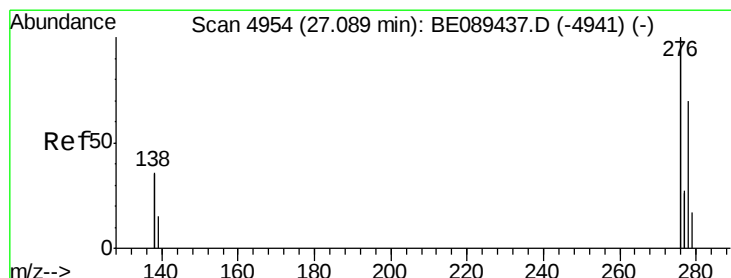
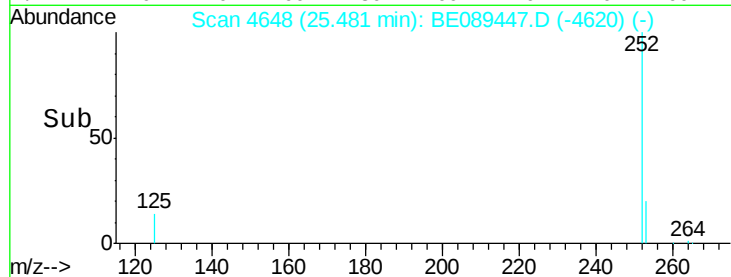
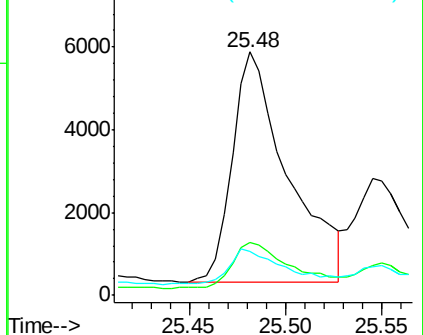
125 18.3 12.0 18.0#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.37 ng

RT: 27.09 min Scan# 4952

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

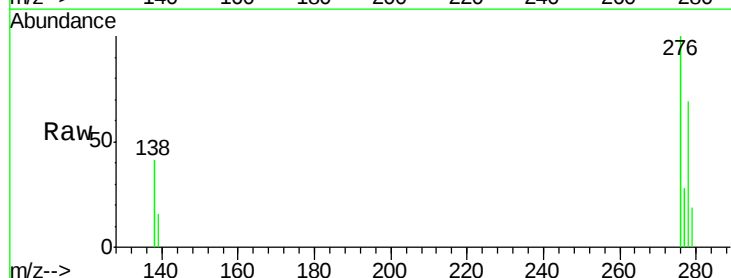
Tgt Ion:278 Resp: 10599

Ion Ratio Lower Upper

278 100

139 23.7 17.0 25.4

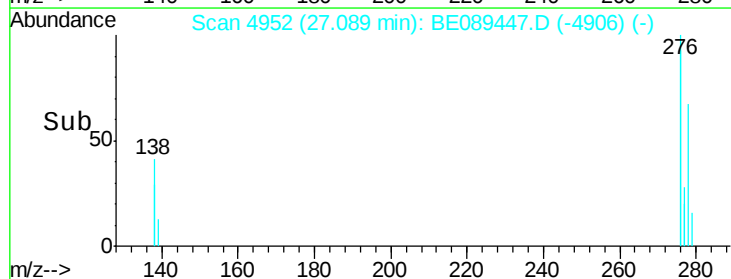
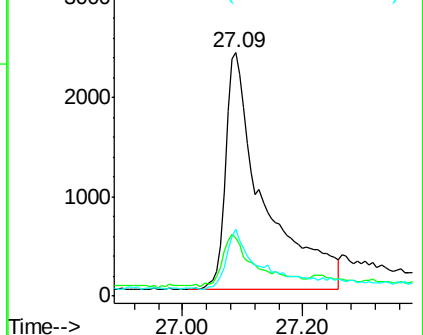
279 27.4 19.1 28.7



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





#27

Benzo(g,h,i)perylene

Concen: 0.37 ng

RT: 27.51 min Scan# 5016

Delta R.T. -0.00 min

Lab File: BE089447.D

Acq: 30 Jan 2015 20:39

Instrument :

BNA_E

ClientSampleId :

MW-2

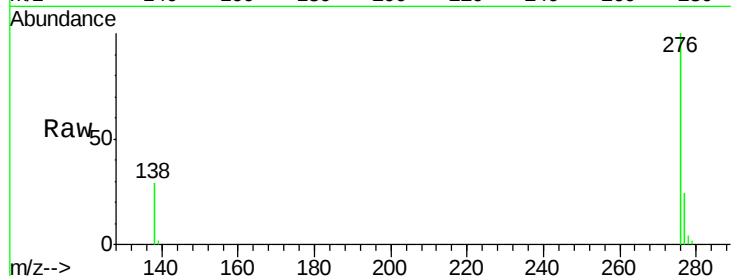
Tgt Ion:276 Resp: 64264

Ion Ratio Lower Upper

276 100

277 24.4 18.4 27.6

138 28.8 23.7 35.5



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

