

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089544.D
 Acq On : 7 Feb 2015 3:33
 Operator : TP/IZ
 Sample : G1238-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW2

Quant Time: Feb 07 06:06:03 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	36337	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	141032	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	60022	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	114576	5.00	ng	0.00
16) Chrysene-d12	23.72	240	130664	5.00	ng	0.00
22) Perylene-d12	25.41	264	138344	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	10.69	82	64933	6.93	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	114665	7.16	ng	0.00
18) Terphenyl-d14	22.36	244	162729	9.44	ng	0.00

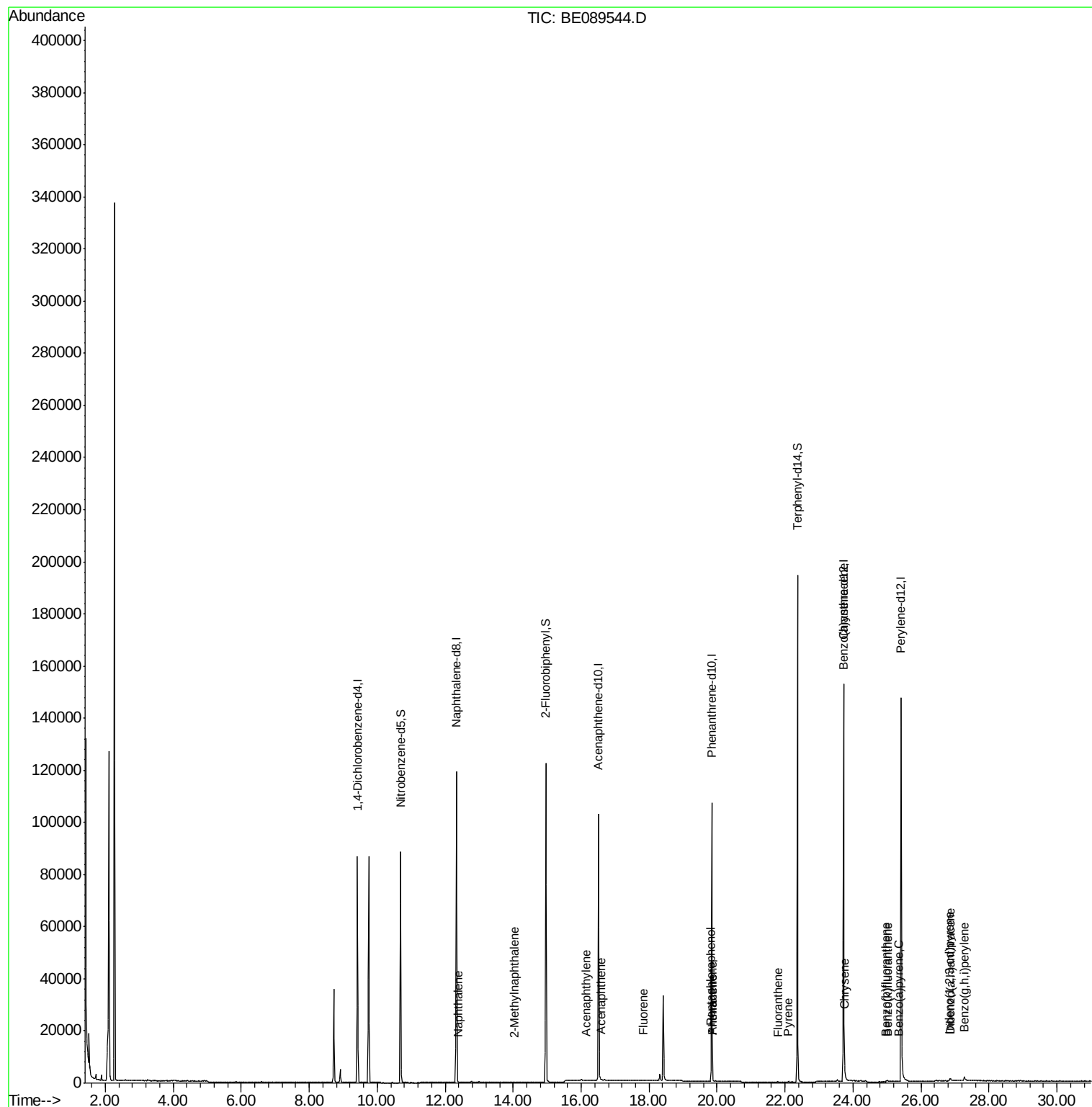
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	12.38	128	133	0.00	ng	# 16
5) 2-Methylnaphthalene	14.03	142	66	0.00	ng	# 80
8) Acenaphthylene	16.16	152	148	0.00	ng	# 72
9) Acenaphthene	16.59	154	77	0.00	ng	# 43
10) Fluorene	17.83	166	97	0.01	ng	# 95
12) Pentachlorophenol	19.82	266	9	0.54	ng	# 89
13) Phenanthrene	19.89	178	263	0.01	ng	# 95
14) Anthracene	19.89	178	263	0.01	ng	# 94
15) Fluoranthene	21.79	202	320	0.01	ng	# 92
17) Pyrene	22.10	202	370	0.01	ng	# 92
19) Benzo(a)anthracene	23.71	228	3607	0.03	ng	# 87
20) Chrysene	23.75	228	2849	0.02	ng	# 83
21) Indeno(1,2,3-cd)pyrene	26.85	276	1970	0.01	ng	# 85
23) Benzo(b)fluoranthene	24.97	252	400	0.01	ng	# 53
24) Benzo(k)fluoranthene	25.00	252	578	0.02	ng	# 55
25) Benzo(a)pyrene	25.35	252	432	0.02	ng	# 36
26) Dibenzo(a,h)anthracene	26.87	278	435	0.01	ng	# 49
27) Benzo(g,h,i)perylene	27.27	276	3057	0.02	ng	# 68

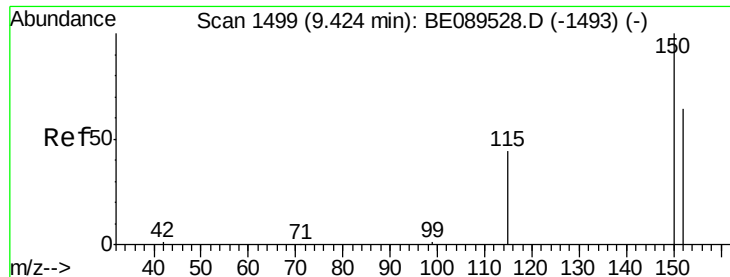
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

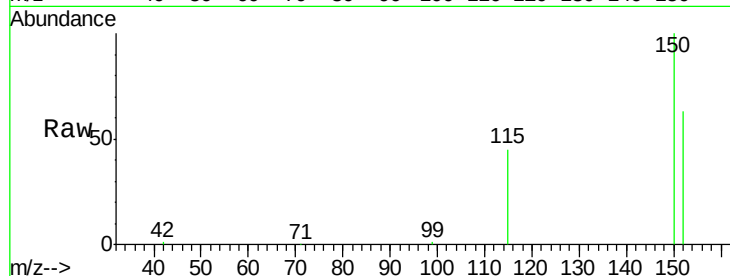
Tgt Ion:152 Resp: 36337

Ion Ratio Lower Upper

152 100

150 158.7 125.7 188.5

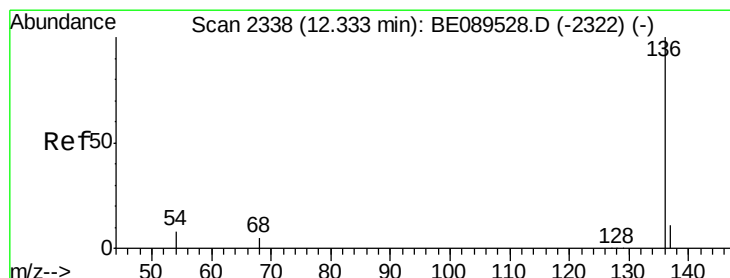
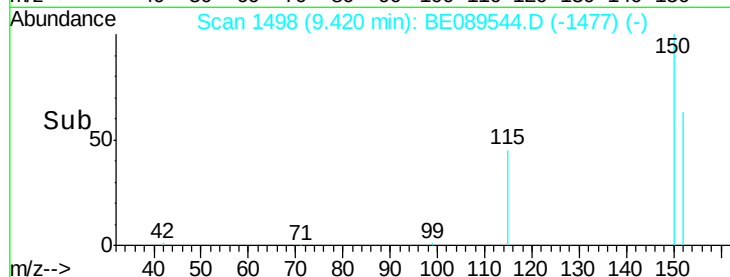
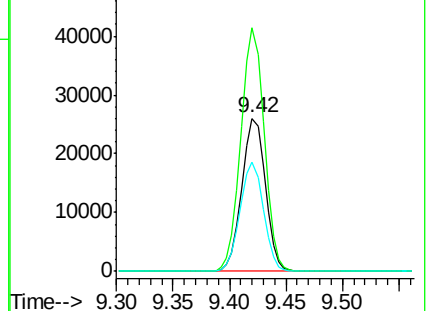
115 71.2 55.6 83.4



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: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

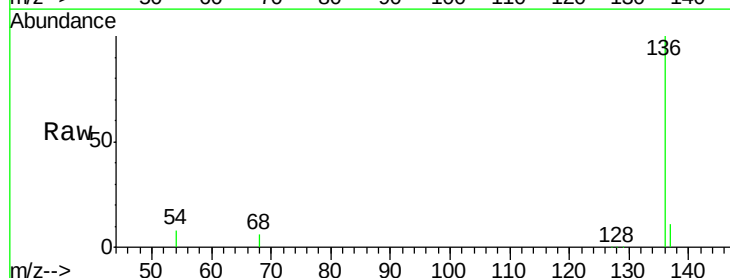
Tgt Ion:136 Resp: 141032

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

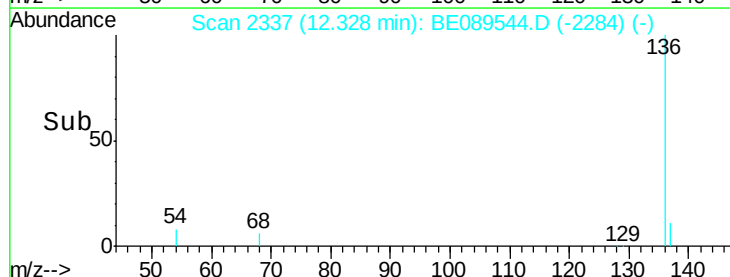
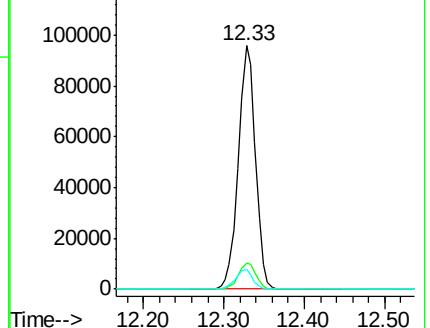
54 7.9 6.1 9.1

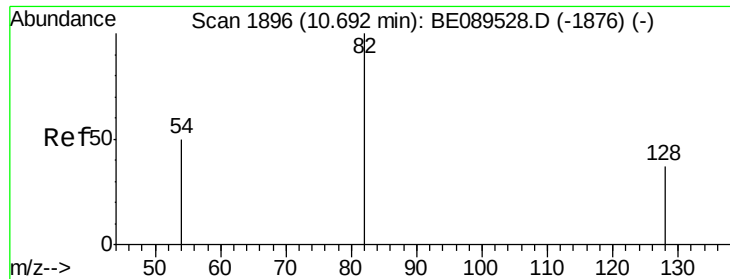


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 6.93 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

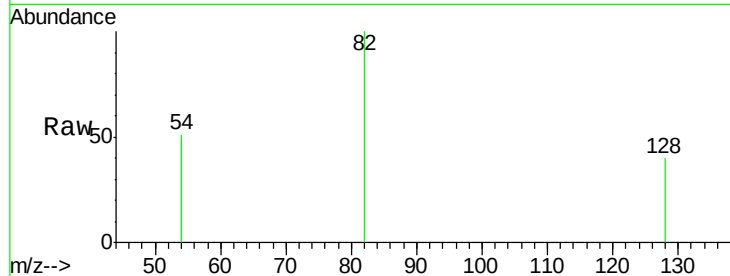
Tgt Ion: 82 Resp: 64933

Ion Ratio Lower Upper

82 100

128 39.7 30.2 45.4

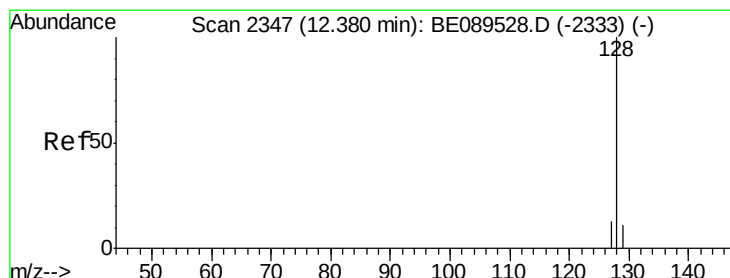
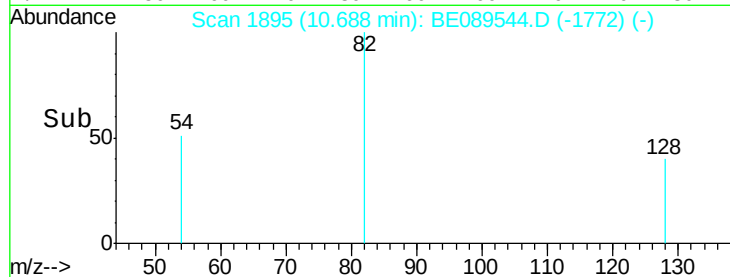
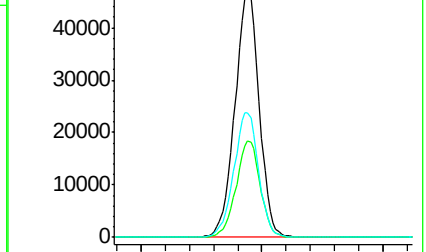
54 51.4 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089528.D (-1876) (-)

Ion 128.00 (127.70 to 128.70): BE089528.D (-1876) (-)

Ion 54.00 (53.70 to 54.70): BE089528.D (-1876) (-)



#4

Naphthalene

Concen: 0.00 ng

RT: 12.38 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

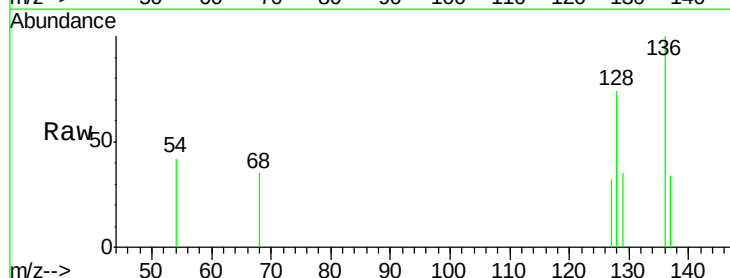
Tgt Ion: 128 Resp: 133

Ion Ratio Lower Upper

128 100

129 47.8 9.1 13.7#

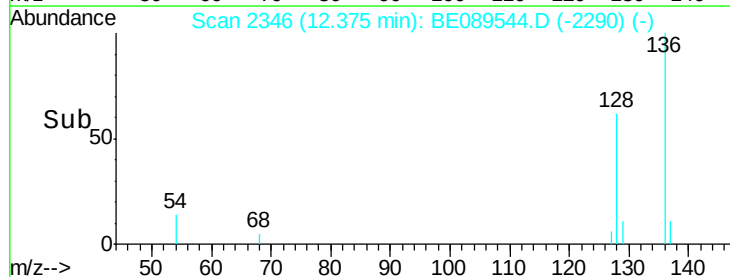
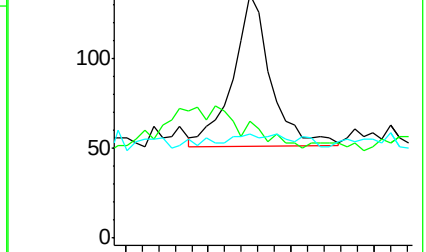
127 42.6 10.5 15.7#

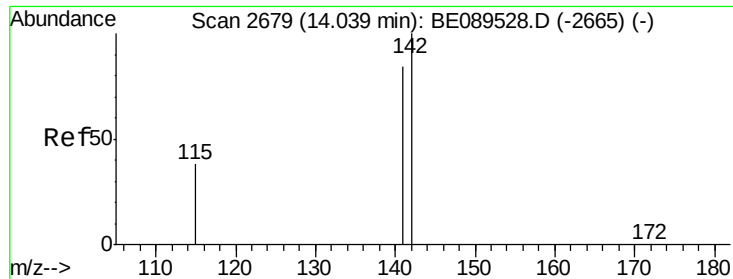


Abundance Ion 128.00 (127.70 to 128.70): BE089528.D (-2333) (-)

Ion 129.00 (128.70 to 129.70): BE089528.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): BE089528.D (-2333) (-)





#5

2-Methylnaphthalene

Concen: 0.00 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

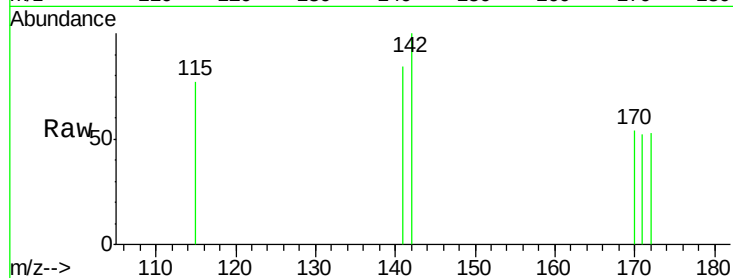
Tgt Ion:142 Resp: 66

Ion Ratio Lower Upper

142 100

141 83.5 67.0 100.6

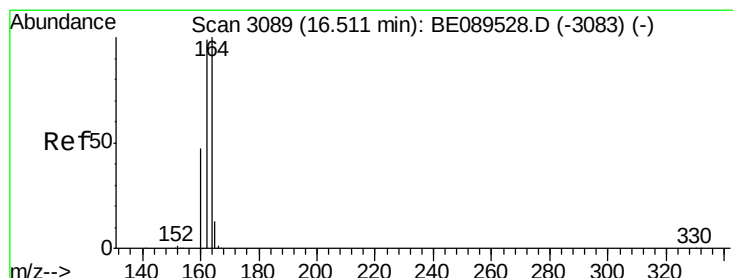
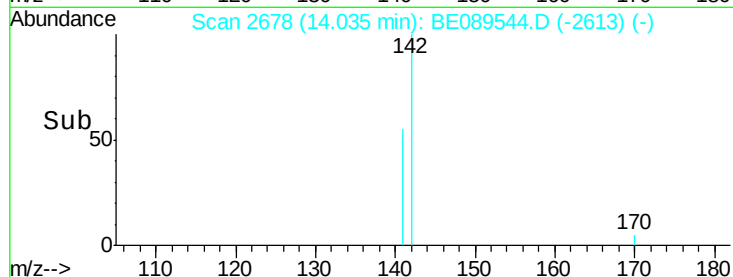
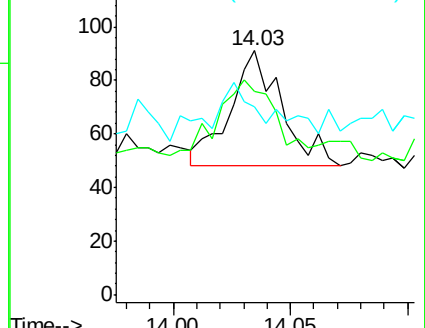
115 76.9 30.6 45.8#



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: 16.51 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

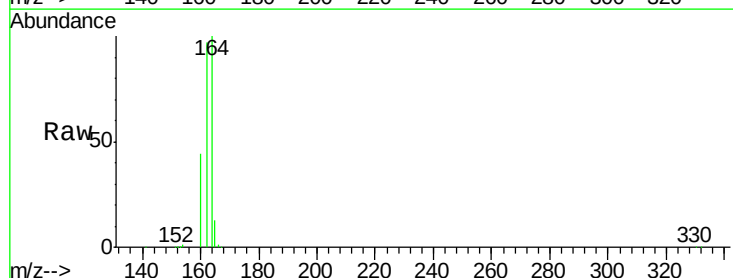
Tgt Ion:164 Resp: 60022

Ion Ratio Lower Upper

164 100

162 97.1 79.5 119.3

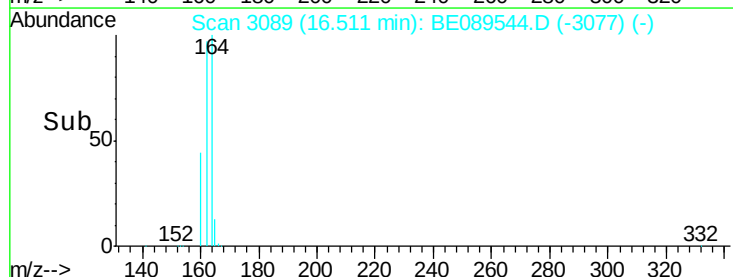
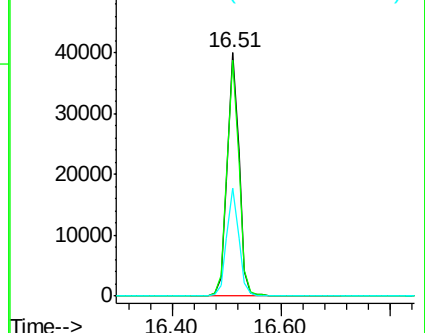
160 44.4 37.6 56.4

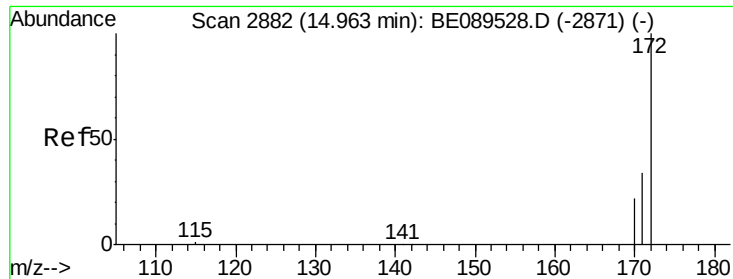


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.16 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

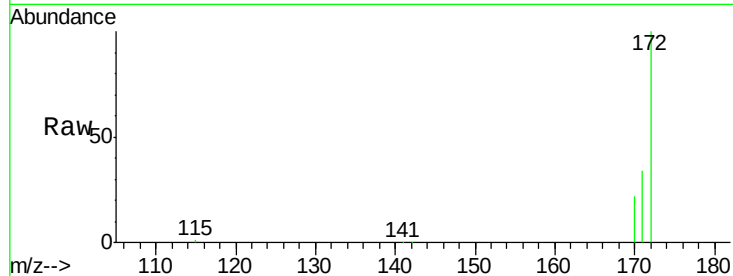
Tgt Ion:172 Resp: 114665

Ion Ratio Lower Upper

172 100

171 33.8 27.7 41.5

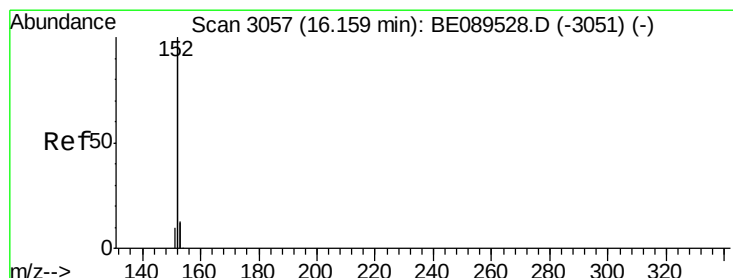
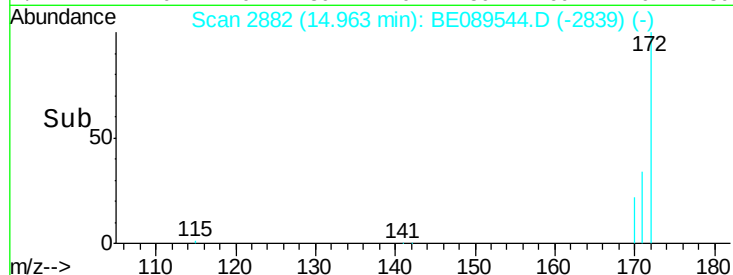
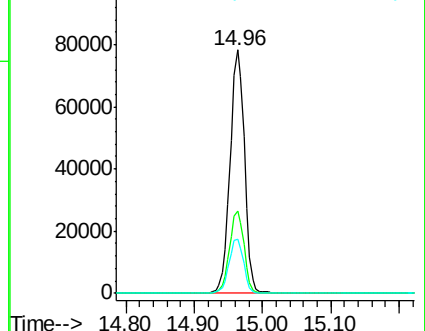
170 22.1 18.3 27.5



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: 0.00 ng

RT: 16.16 min Scan# 3057

Delta R.T. 0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

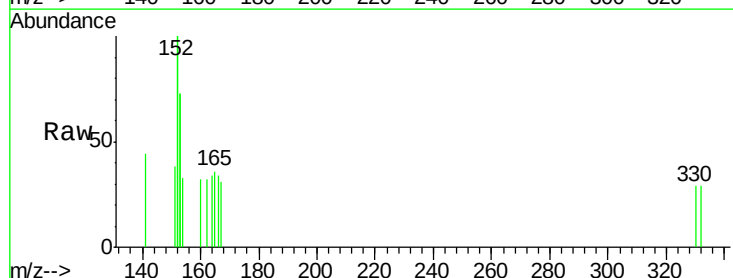
Tgt Ion:152 Resp: 148

Ion Ratio Lower Upper

152 100

151 0.0 4.0 6.0#

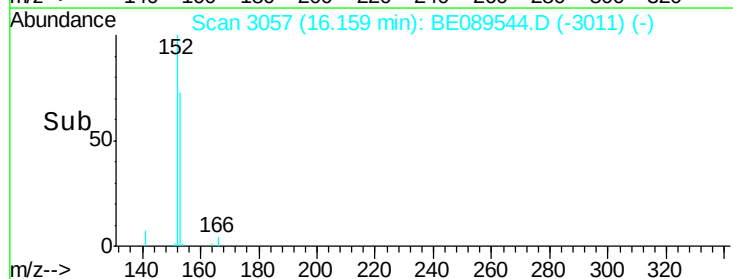
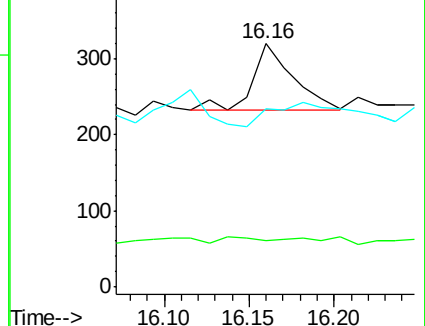
153 0.0 10.6 15.8#

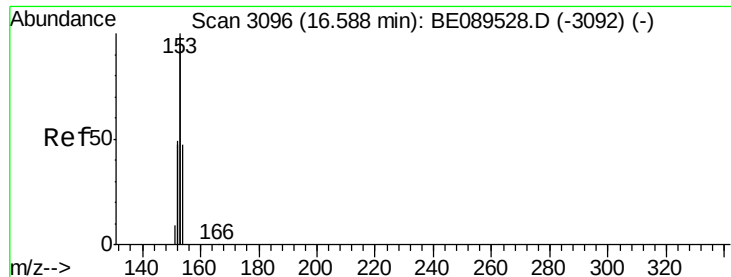


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.00 ng

RT: 16.59 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

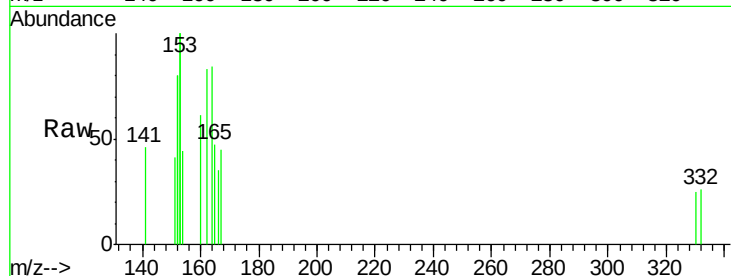
Tgt Ion:154 Resp: 77

Ion Ratio Lower Upper

154 100

153 376.6 340.8 511.2

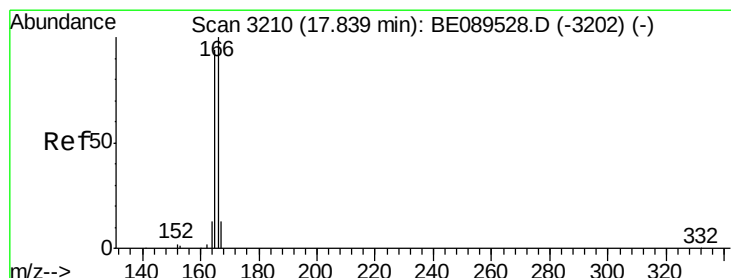
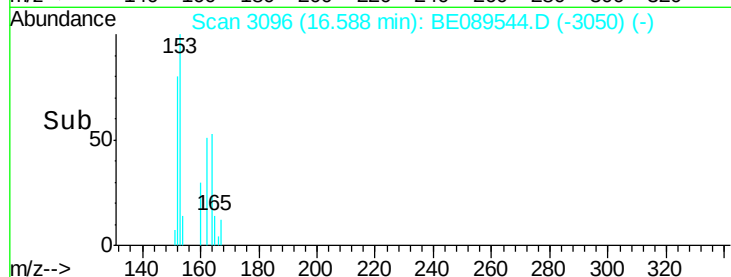
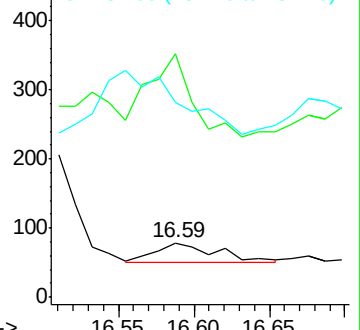
152 0.0 165.5 248.3#



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: 0.01 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

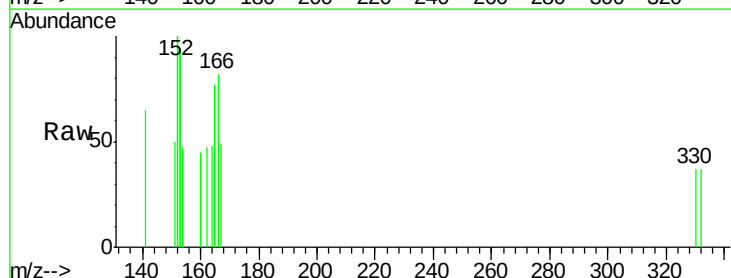
Tgt Ion:166 Resp: 97

Ion Ratio Lower Upper

166 100

165 92.8 75.5 113.3

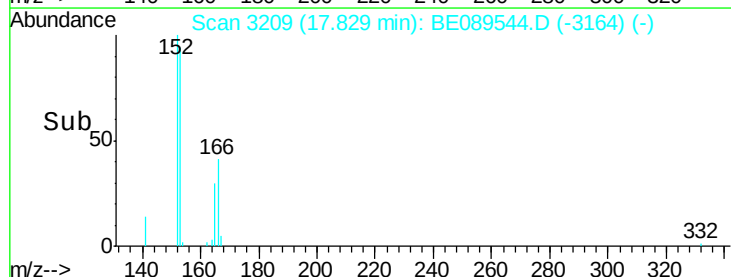
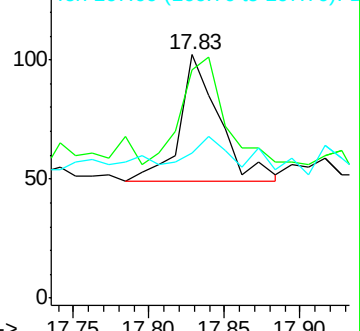
167 25.8 10.9 16.3#

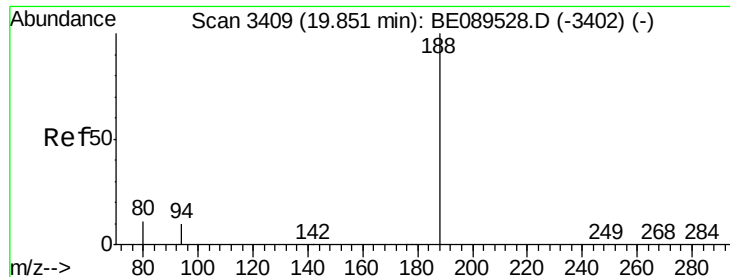


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

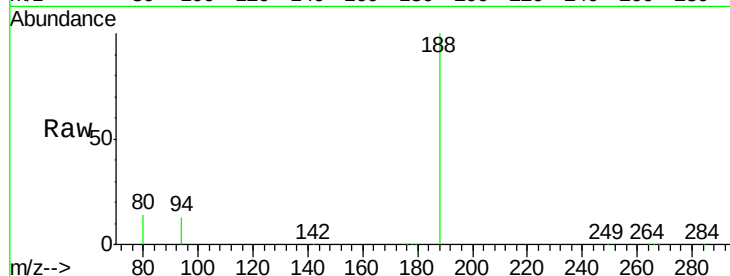




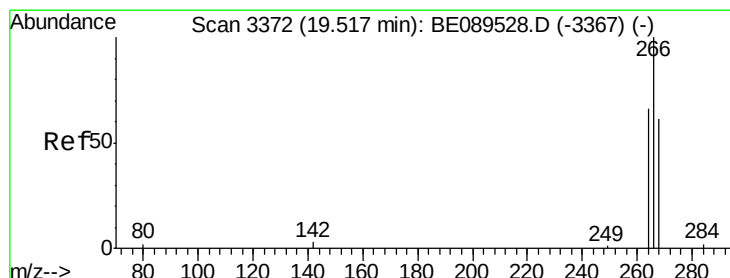
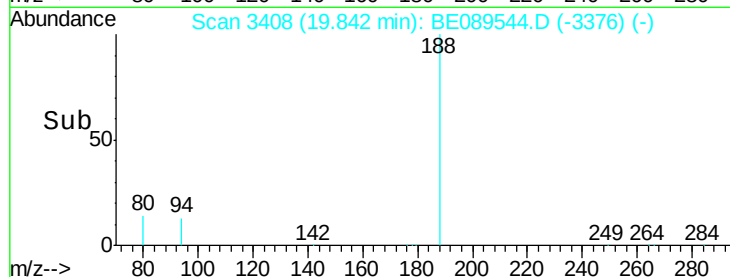
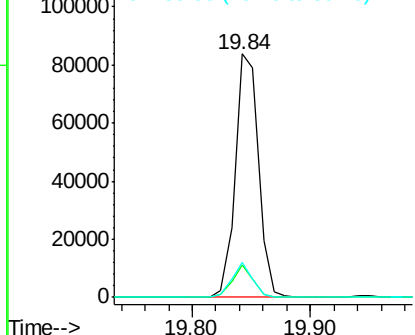
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089544.D
Acq: 7 Feb 2015 3:33

Instrument :
BNA_E
ClientSampled :
MW2

Tgt Ion:188 Resp: 114576
Ion Ratio Lower Upper
188 100
94 13.2 8.4 12.6#
80 14.2 8.6 12.8#

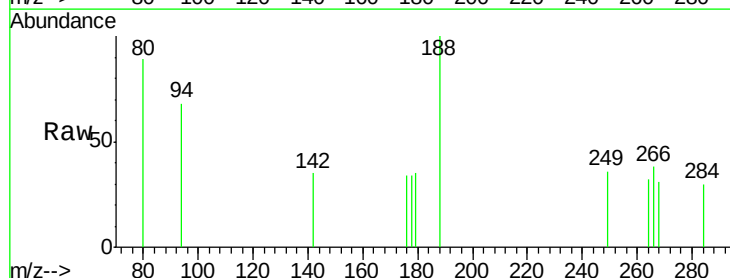


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

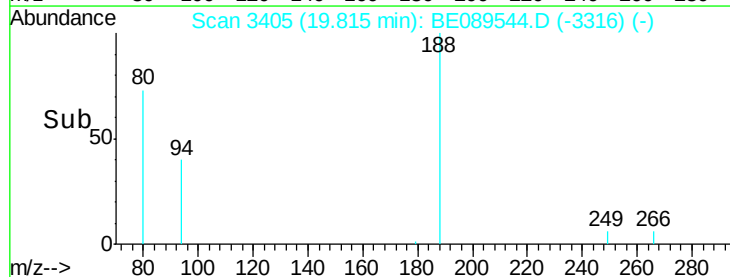
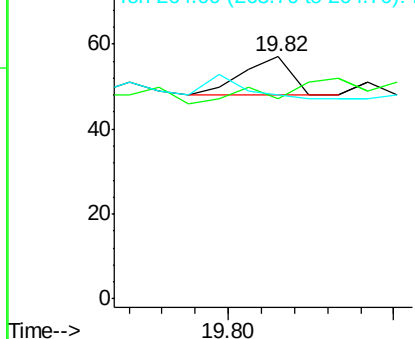


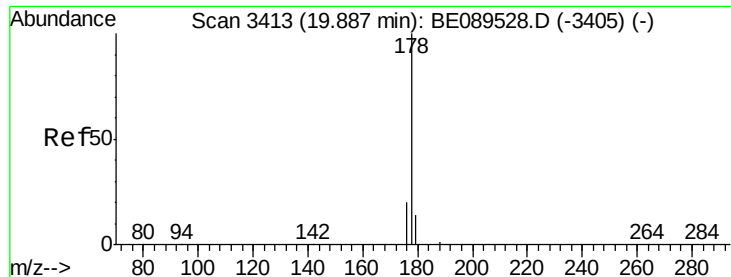
#12
Pentachlorophenol
Concen: 0.54 ng
RT: 19.82 min Scan# 3405
Delta R.T. 0.30 min
Lab File: BE089544.D
Acq: 7 Feb 2015 3:33

Tgt Ion:266 Resp: 9
Ion Ratio Lower Upper
266 100
268 82.5 57.9 86.9
264 84.2 60.2 90.4



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





#13

Phenanthrene

Concen: 0.01 ng

RT: 19.89 min Scan# 3413

Delta R.T. 0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

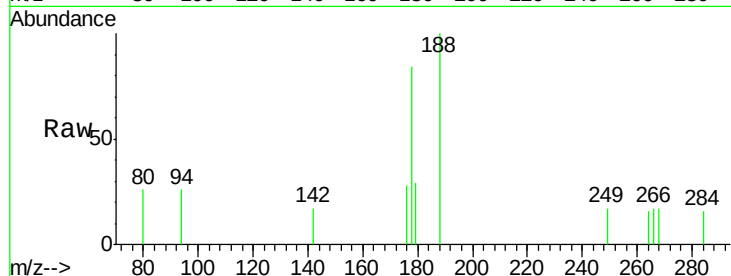
Tgt Ion:178 Resp: 263

Ion Ratio Lower Upper

178 100

176 21.3 15.4 23.0

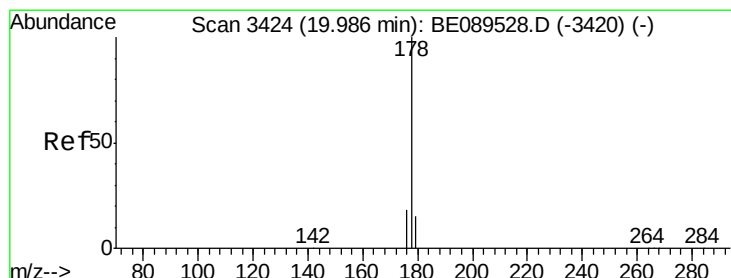
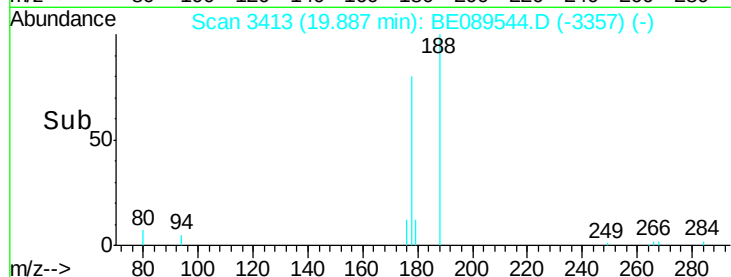
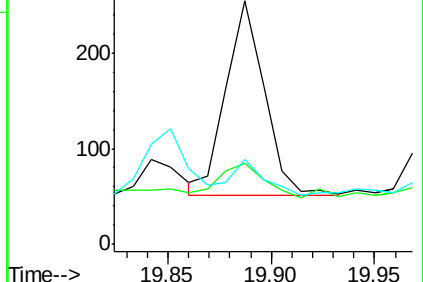
179 12.9 12.2 18.2



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



#14

Anthracene

Concen: 0.01 ng

RT: 19.89 min Scan# 3413

Delta R.T. -0.10 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

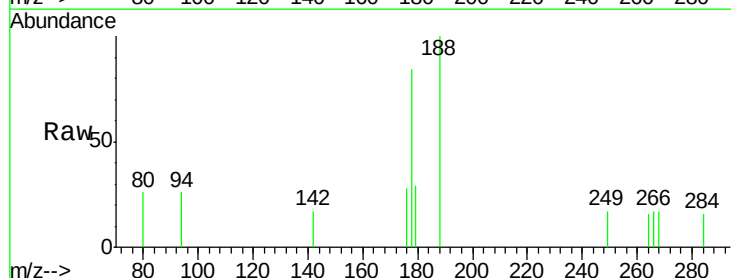
Tgt Ion:178 Resp: 263

Ion Ratio Lower Upper

178 100

176 21.3 14.5 21.7

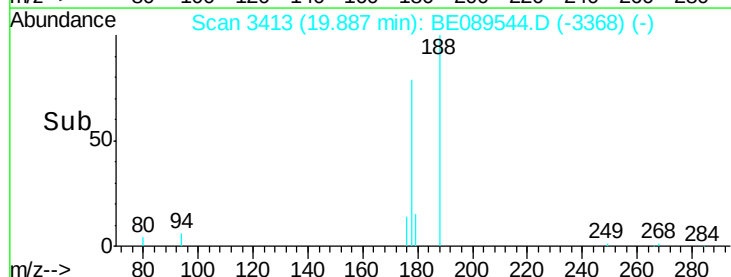
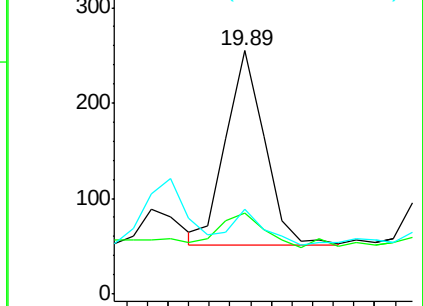
179 12.9 12.2 18.2

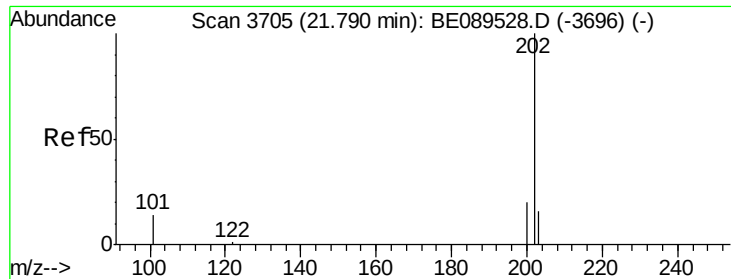


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

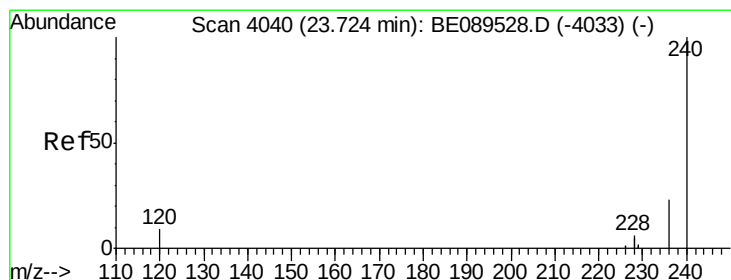
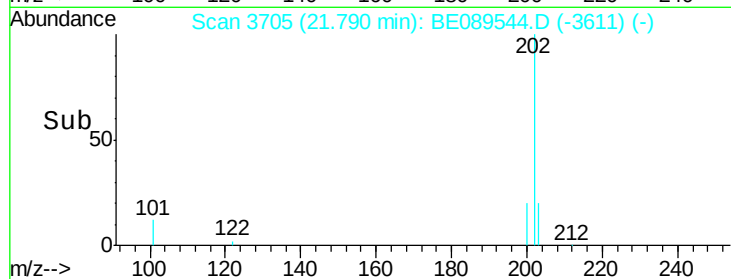
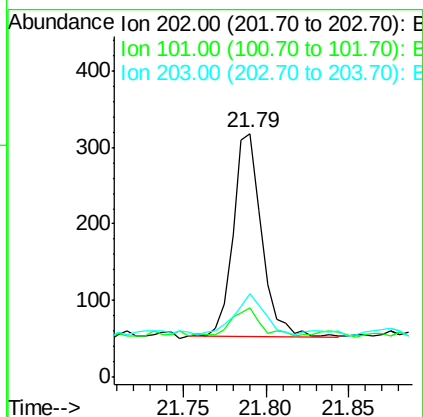
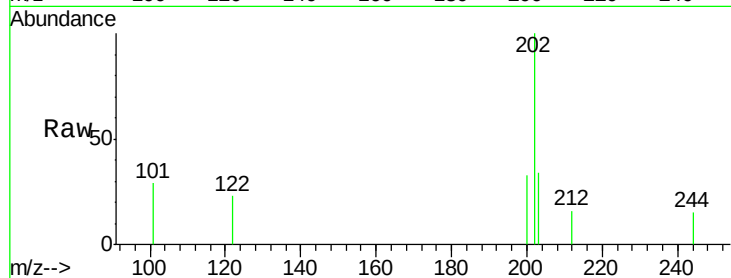




#15
Fluoranthene
Concen: 0.01 ng
RT: 21.79 min Scan# 3705
Delta R.T. 0.00 min
Lab File: BE089544.D
Acq: 7 Feb 2015 3:33

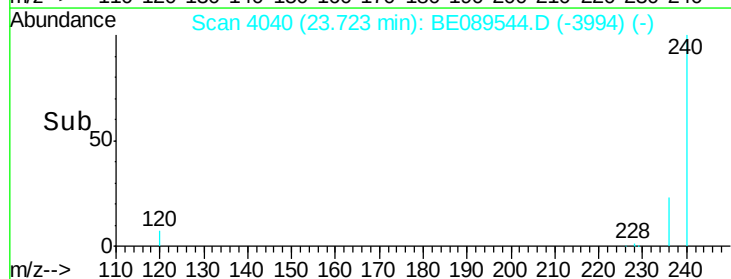
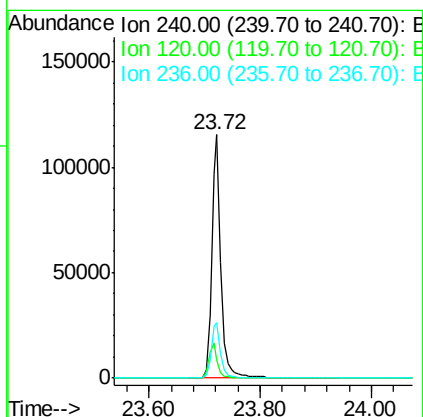
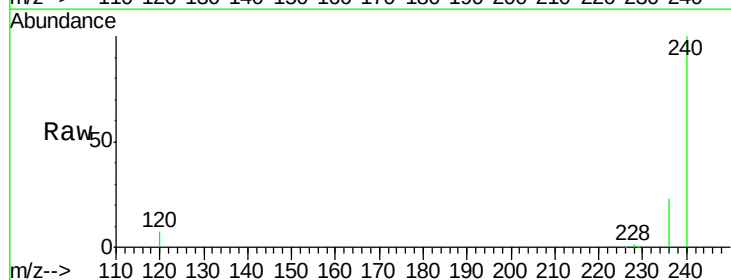
Instrument :
BNA_E
ClientSampleId :
MW2

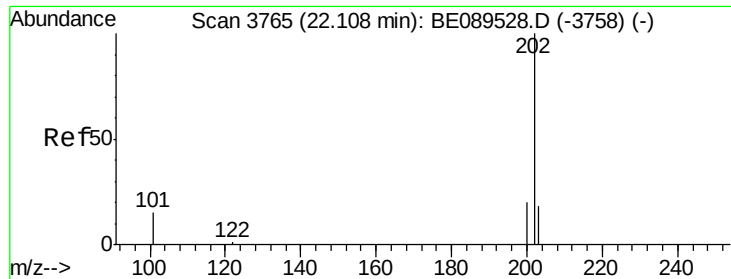
Tgt Ion: 202 Resp: 320
Ion Ratio Lower Upper
202 100
101 13.4 11.6 17.4
203 22.5 13.6 20.4#



#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.72 min Scan# 4040
Delta R.T. -0.00 min
Lab File: BE089544.D
Acq: 7 Feb 2015 3:33

Tgt Ion: 240 Resp: 130664
Ion Ratio Lower Upper
240 100
120 7.5 7.2 10.8
236 22.9 18.5 27.7

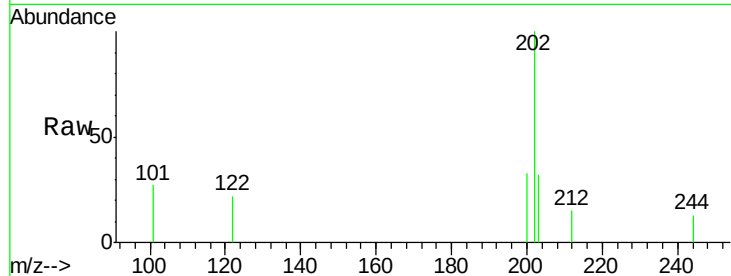




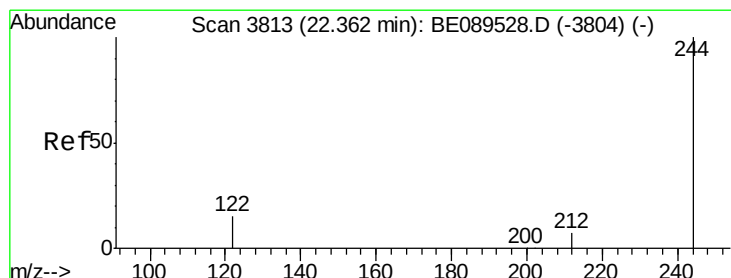
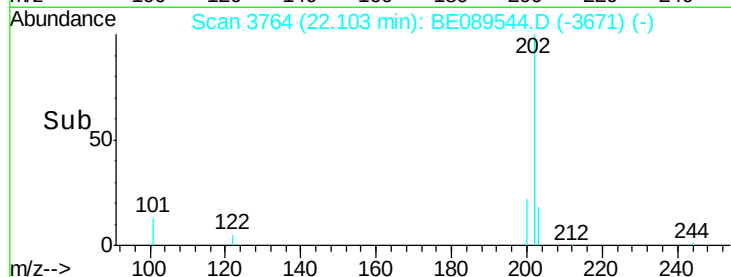
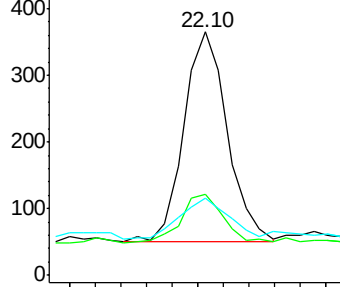
#17
 Pyrene
 Concen: 0.01 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.00 min
 Lab File: BE089544.D
 Acq: 7 Feb 2015 3:33

Instrument :
 BNA_E
 ClientSampleId :
 MW2

Tgt Ion: 202 Resp: 370
 Ion Ratio Lower Upper
 202 100
 200 23.5 16.3 24.5
 203 21.4 13.5 20.3#

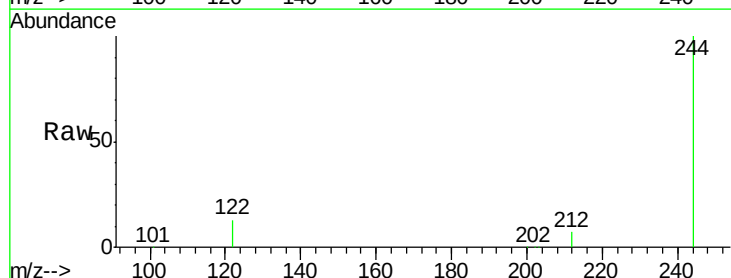


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

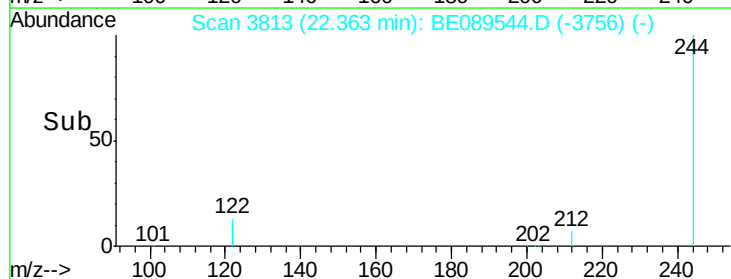
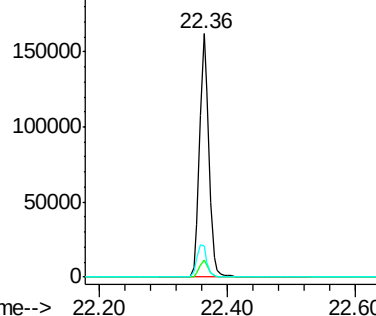


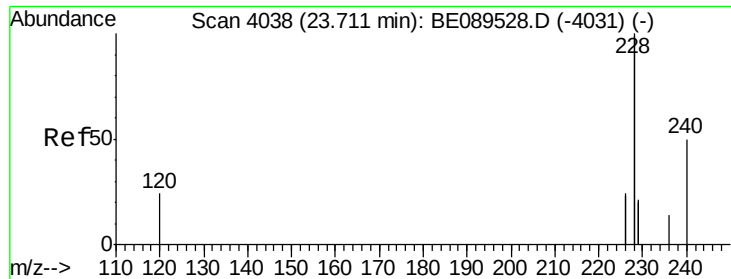
#18
 Terphenyl-d14
 Concen: 9.44 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. 0.00 min
 Lab File: BE089544.D
 Acq: 7 Feb 2015 3:33

Tgt Ion: 244 Resp: 162729
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.8 8.8
 122 12.8 12.6 19.0



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: 0.03 ng

RT: 23.71 min Scan# 4038

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

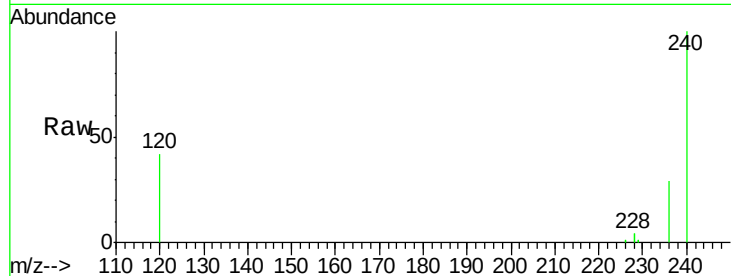
Tgt Ion:228 Resp: 3607

Ion Ratio Lower Upper

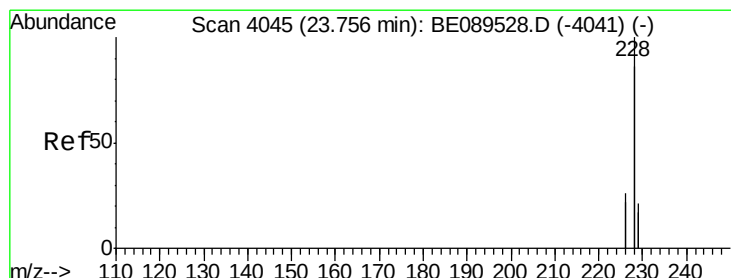
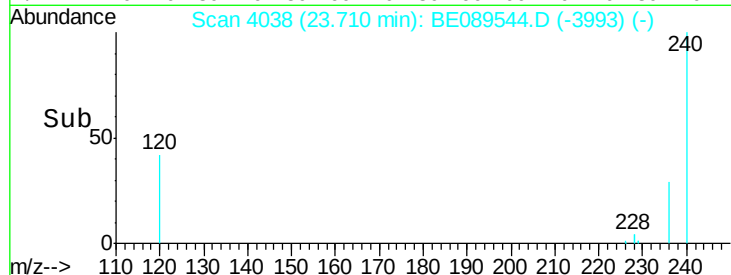
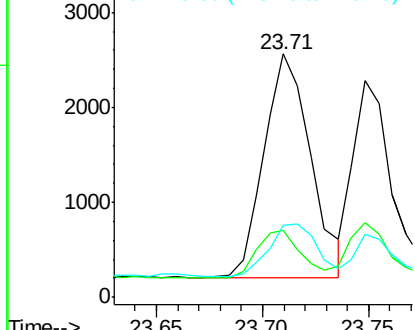
228 100

226 27.4 19.0 28.4

229 29.9 16.8 25.2#



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



#20

Chrysene

Concen: 0.02 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

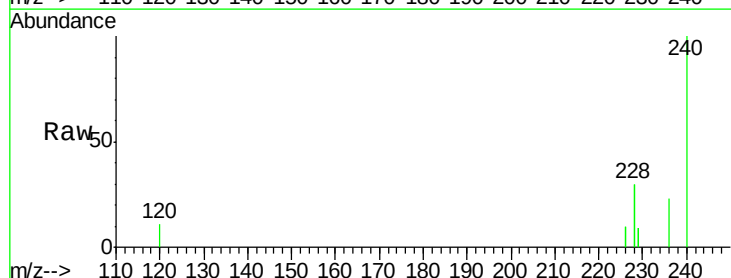
Tgt Ion:228 Resp: 2849

Ion Ratio Lower Upper

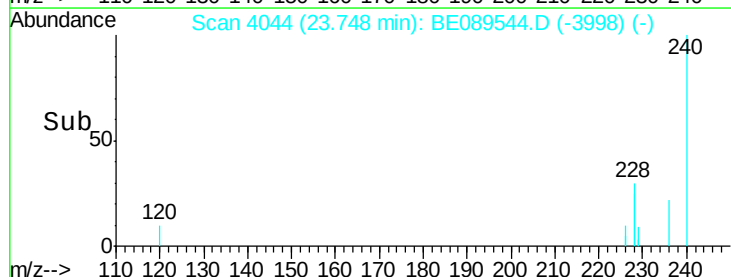
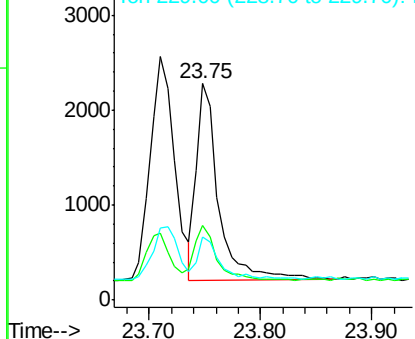
228 100

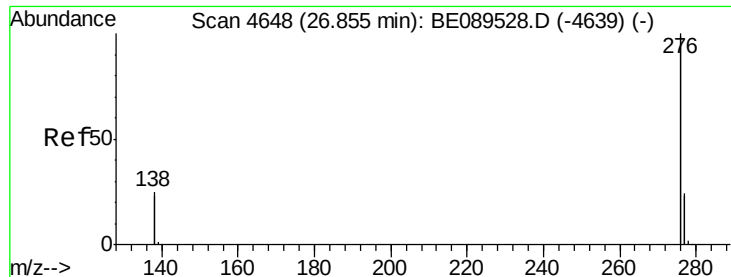
226 34.4 21.0 31.4#

229 29.3 16.7 25.1#



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: 0.01 ng

RT: 26.85 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

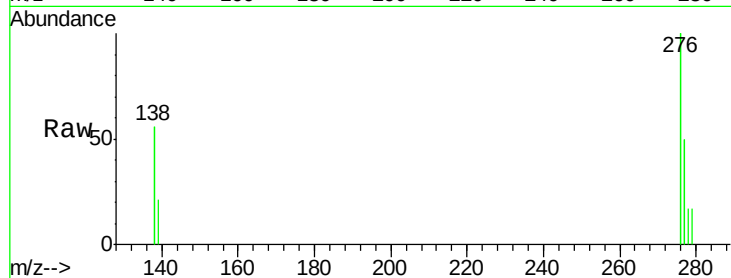
Tgt Ion:276 Resp: 1970

Ion Ratio Lower Upper

276 100

138 16.2 23.0 34.4#

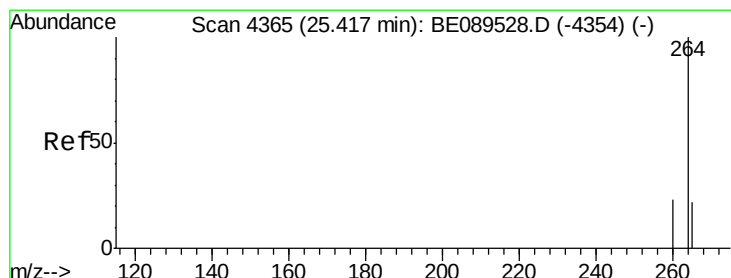
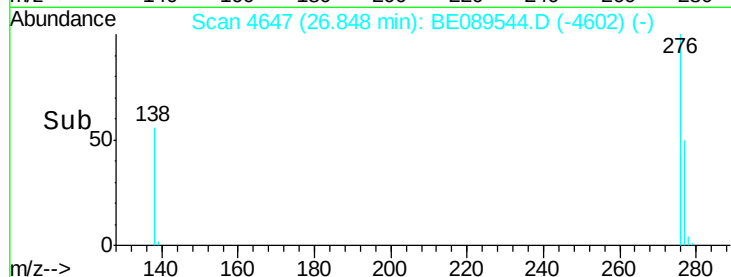
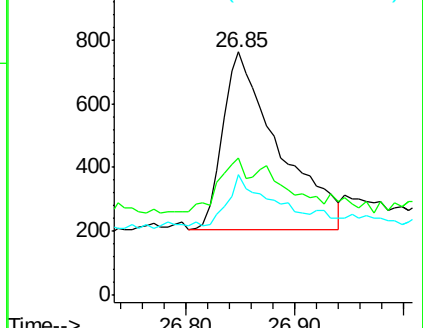
277 22.4 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4365

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

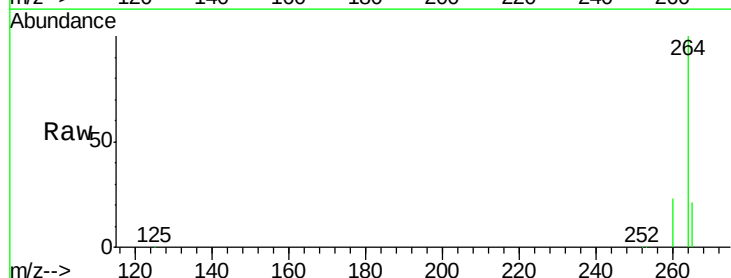
Tgt Ion:264 Resp: 138344

Ion Ratio Lower Upper

264 100

260 23.3 18.7 28.1

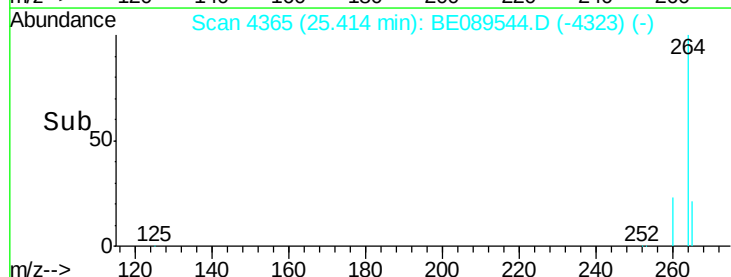
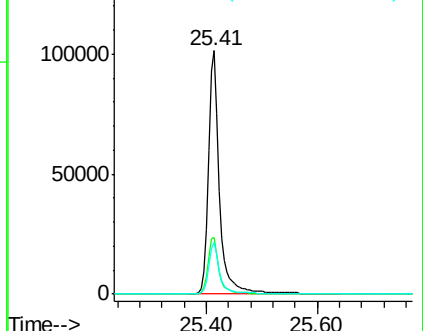
265 21.5 17.5 26.3

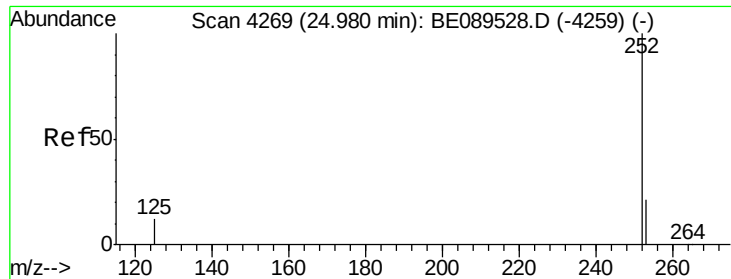


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.01 ng

RT: 24.97 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

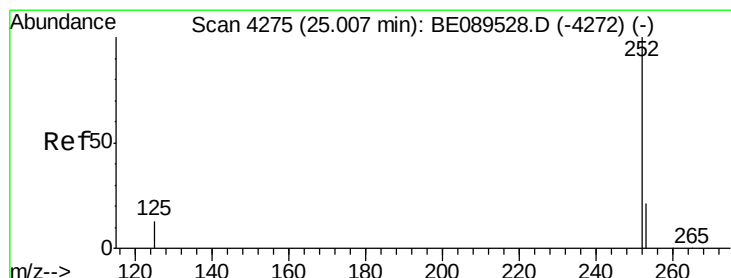
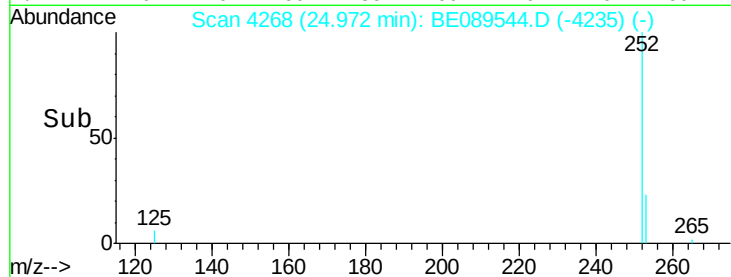
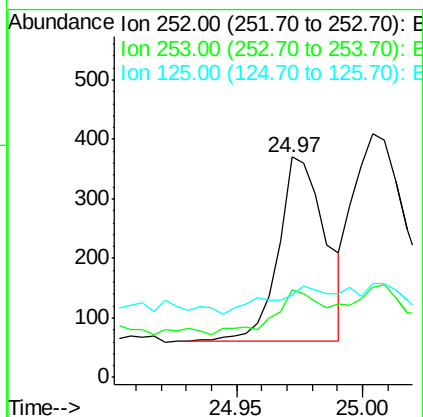
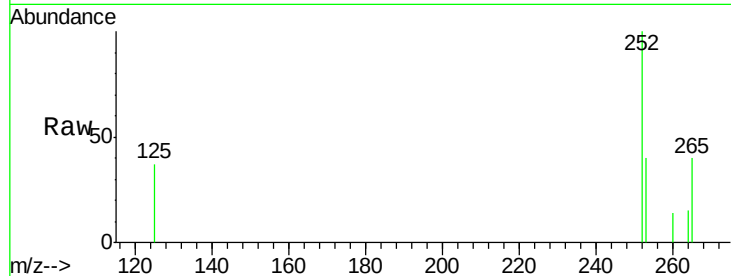
Tgt Ion:252 Resp: 400

Ion Ratio Lower Upper

252 100

253 40.0 17.4 26.0#

125 37.3 10.4 15.6#



#24

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 25.00 min Scan# 4275

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

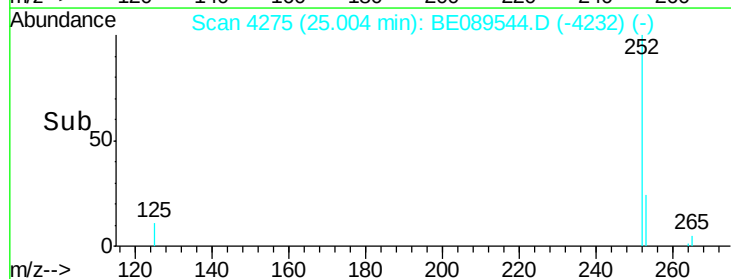
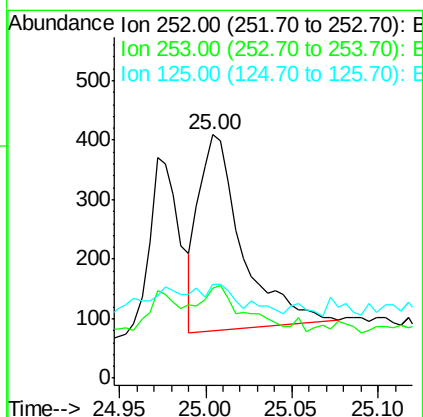
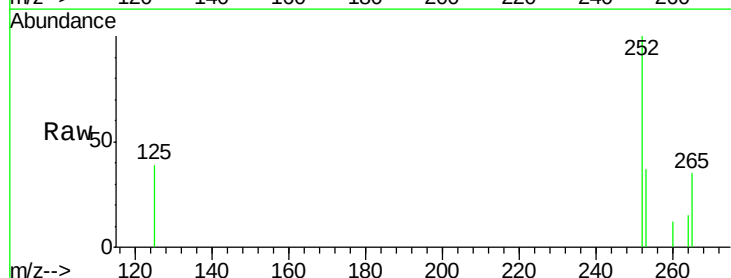
Tgt Ion:252 Resp: 578

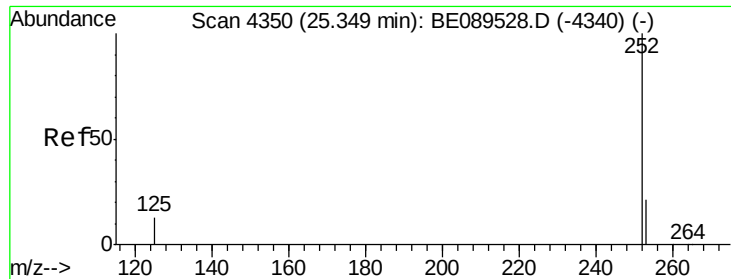
Ion Ratio Lower Upper

252 100

253 37.2 17.2 25.8#

125 38.6 10.6 15.8#





#25

Benzo(a)pyrene

Concen: 0.02 ng

RT: 25.35 min Scan# 4350

Delta R.T. -0.00 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2

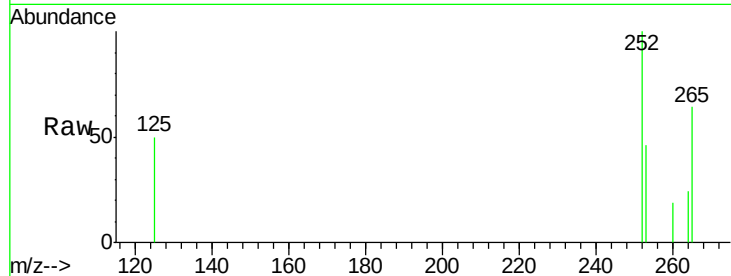
Tgt Ion: 252 Resp: 432

Ion Ratio Lower Upper

252 100

253 45.7 17.8 26.6#

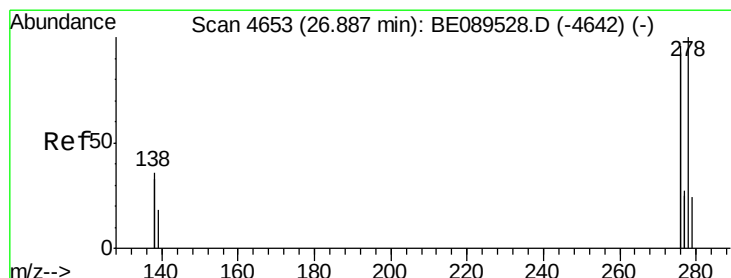
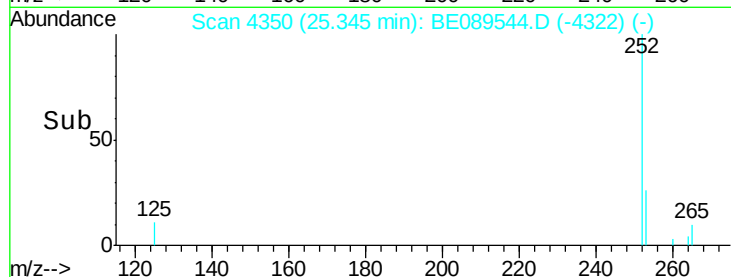
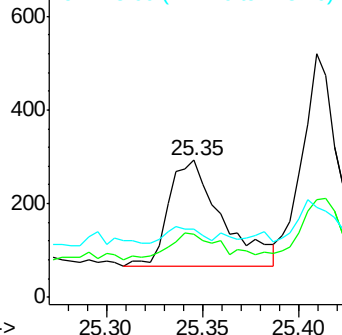
125 49.8 11.4 17.2#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.01 ng

RT: 26.87 min Scan# 4651

Delta R.T. -0.01 min

Lab File: BE089544.D

Acq: 7 Feb 2015 3:33

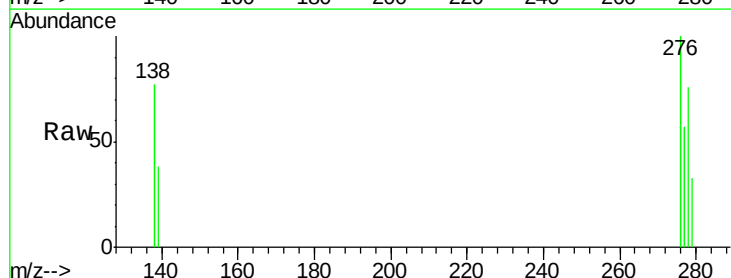
Tgt Ion: 278 Resp: 435

Ion Ratio Lower Upper

278 100

139 50.7 15.7 23.5#

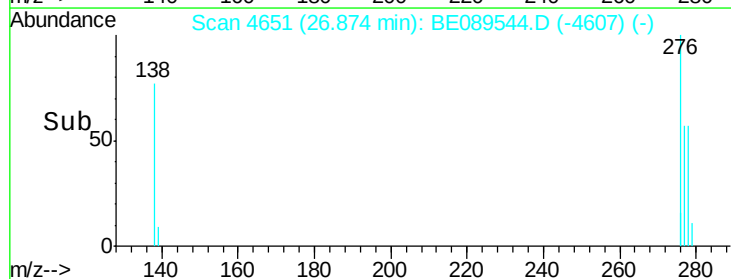
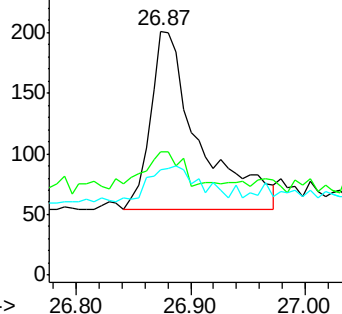
279 43.3 19.5 29.3#

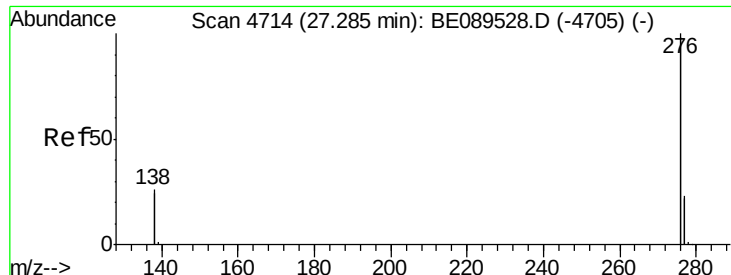


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.02 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

Lab File: BE089544.D

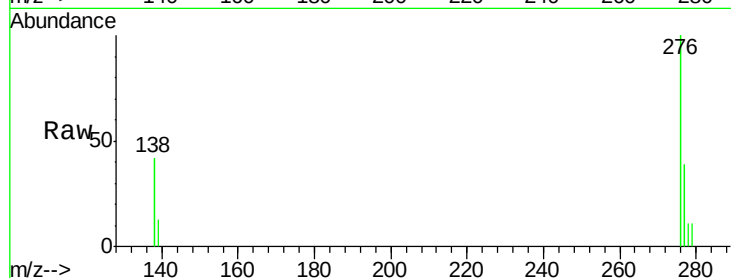
Acq: 7 Feb 2015 3:33

Instrument :

BNA_E

ClientSampleId :

MW2



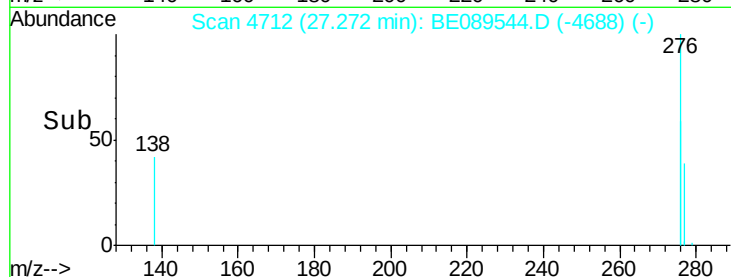
Tgt Ion: 276 Resp: 3057

Ion Ratio Lower Upper

276 100

277 39.0 18.6 27.8#

138 42.5 20.9 31.3#



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

