

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022515\
 Data File : BE089688.D
 Acq On : 25 Feb 2015 20:11
 Operator : TP/JJ
 Sample : G1353-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Quant Time: Feb 26 00:13:21 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 26 00:03:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	43711	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	204174	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	94212	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	161123	5.00	ng	0.00
19) Chrysene-d12	23.65	240	119018	5.00	ng	0.00
25) Perylene-d12	25.34	264	98623	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	75945	6.32	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	171477	8.18	ng	0.00
21) Terphenyl-d14	22.30	244	150920	10.81	ng	0.00

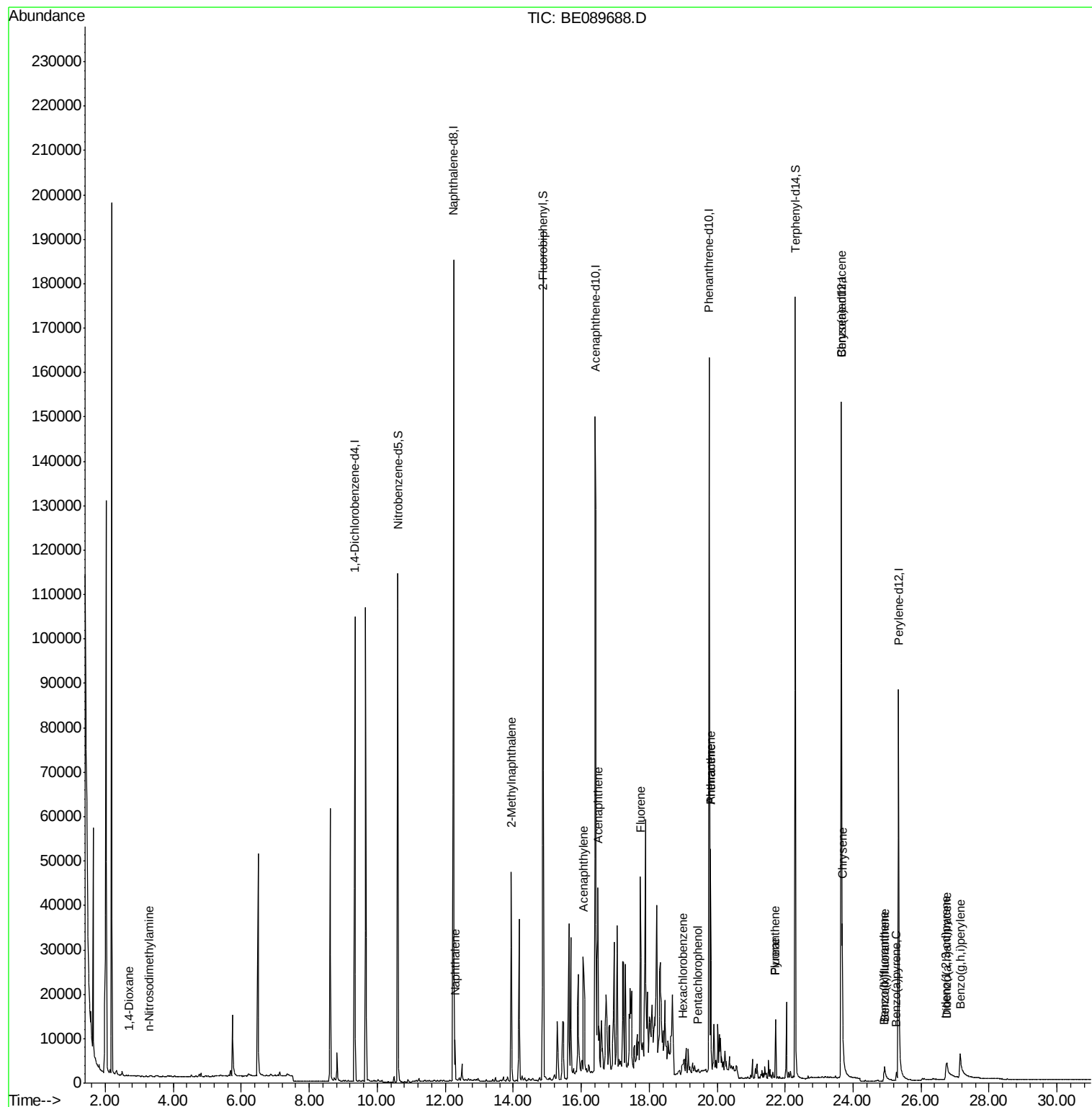
Target Compounds						Qvalue
2) 1,4-Dioxane	2.71	88	202	0.04	ng	# 80
3) n-Nitrosodimethylamine	3.30	42	24	0.08	ng	# 1
6) Naphthalene	12.29	128	10485	0.27	ng	# 96
7) 2-Methylnaphthalene	13.94	142	29876	1.33	ng	97
10) Acenaphthylene	16.06	152	41338	0.31	ng	# 76
11) Acenaphthene	16.49	154	8092	0.38	ng	# 44
12) Fluorene	17.74	166	16902	0.71	ng	# 81
14) Hexachlorobenzene	18.99	284	1078	0.26	ng	# 40
15) Pentachlorophenol	19.43	266	693	1.58	ng	93
16) Phenanthrene	19.81	178	44399	1.29	ng	99
17) Anthracene	19.81	178	44399	1.52	ng	98
18) Fluoranthene	21.72	202	9707	0.34	ng	99
20) Pyrene	21.72	202	9707	0.34	ng	100
22) Benzo(a)anthracene	23.64	228	25442	0.33	ng	97
23) Chrysene	23.68	228	33071	0.31	ng	97
24) Indeno(1,2,3-cd)pyrene	26.73	276	13915	0.52	ng	# 54
26) Benzo(b)fluoranthene	24.91	252	2466	0.47	ng	# 92
27) Benzo(k)fluoranthene	24.94	252	7085	0.35	ng	# 91
28) Benzo(a)pyrene	25.27	252	2825	0.43	ng	# 89
29) Dibenzo(a,h)anthracene	26.76	278	2212	0.48	ng	93
30) Benzo(g,h,i)perylene	27.15	276	15919	0.43	ng	96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

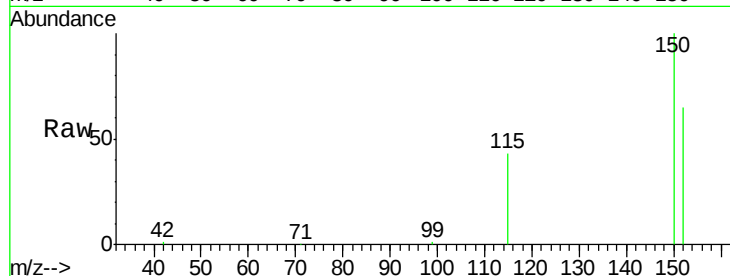
Tgt Ion:152 Resp: 43711

Ion Ratio Lower Upper

152 100

150 154.2 123.4 185.0

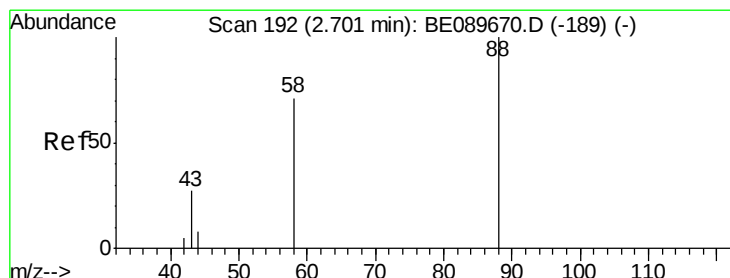
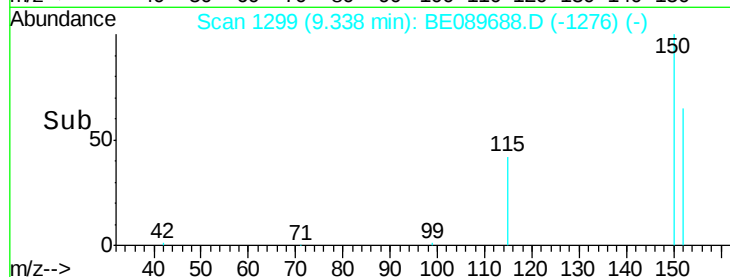
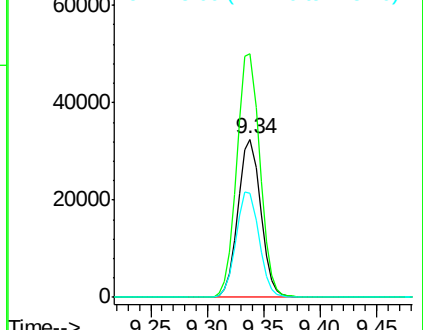
115 65.6 50.8 76.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.04 ng

RT: 2.71 min Scan# 193

Delta R.T. 0.09 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

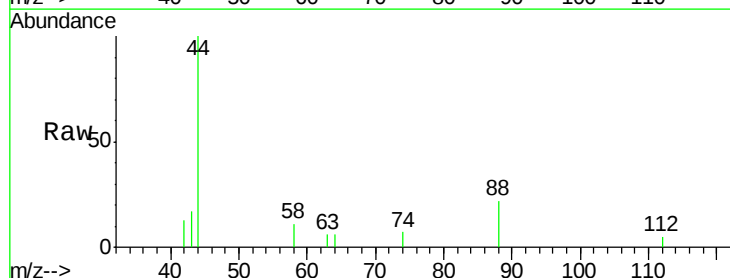
Tgt Ion: 88 Resp: 202

Ion Ratio Lower Upper

88 100

58 81.2 62.4 93.6

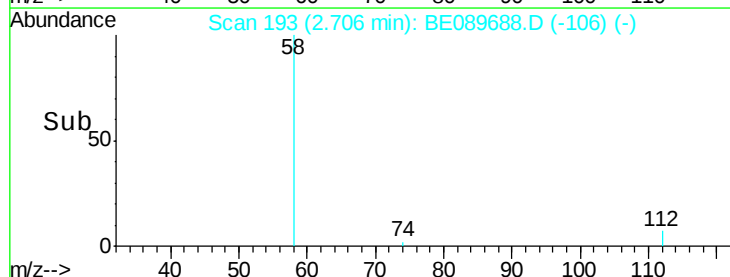
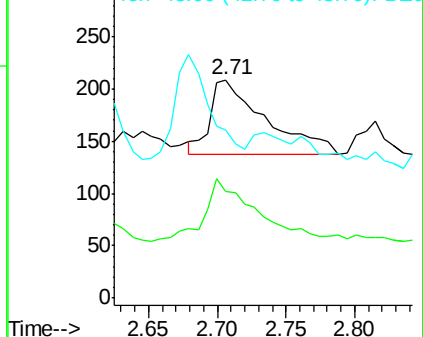
43 0.0 26.6 40.0#

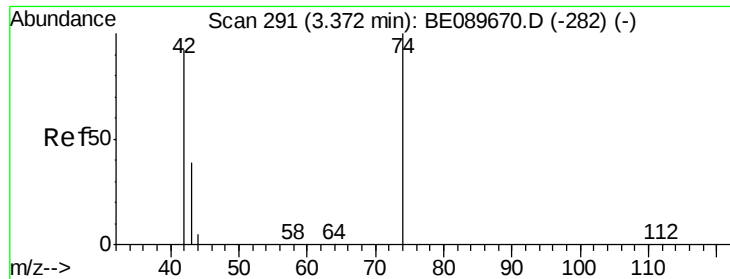


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



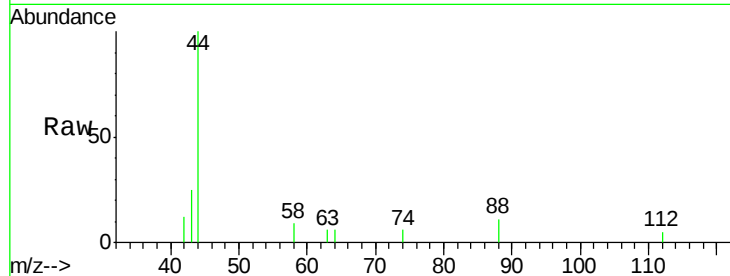


#3

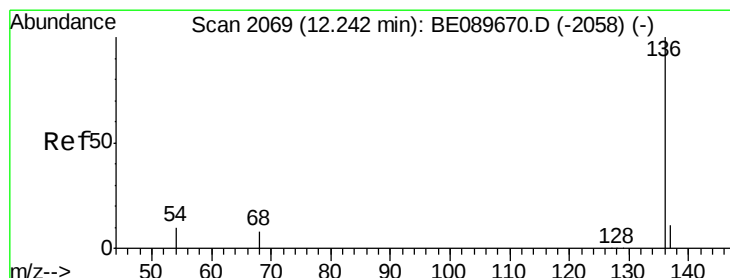
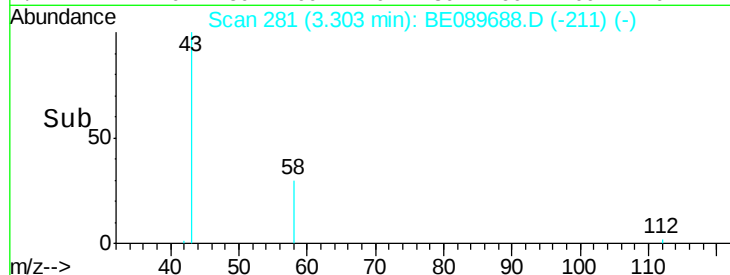
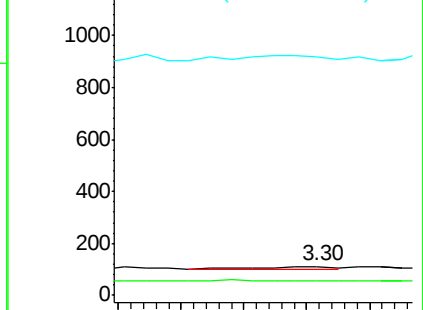
n-Nitrosodimethylamine
Concen: 0.08 ng
RT: 3.30 min Scan# 281
Delta R.T. -0.03 min
Lab File: BE089688.D
Acq: 25 Feb 2015 20:11

Instrument :
BNA_E
ClientSampleId :
MW-2

Tgt Ion: 42 Resp: 24
Ion Ratio Lower Upper
42 100
74 0.0 91.1 136.7#
44 208.3 4.7 7.1#



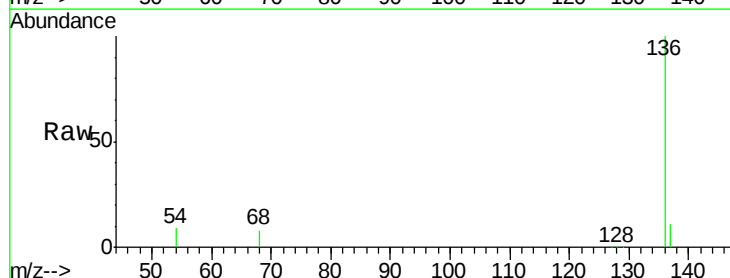
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



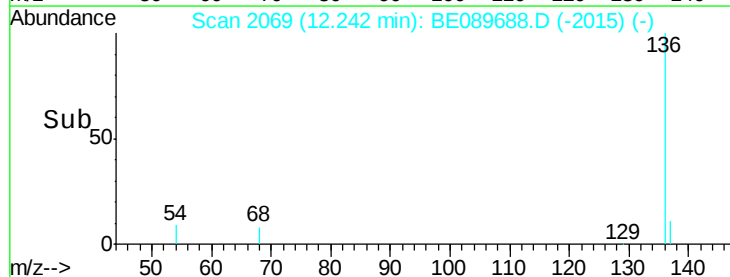
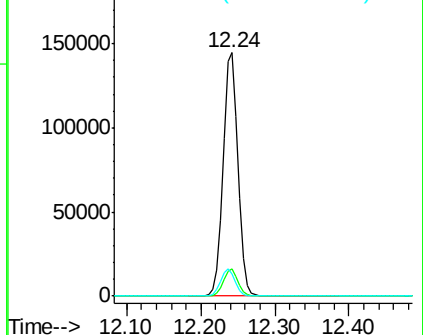
#4

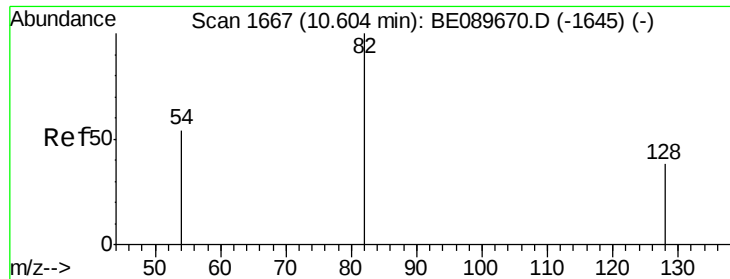
Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2069
Delta R.T. 0.00 min
Lab File: BE089688.D
Acq: 25 Feb 2015 20:11

Tgt Ion: 136 Resp: 204174
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 9.3 7.8 11.8



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





#5

Nitrobenzene-d5

Concen: 6.32 ng

RT: 10.60 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

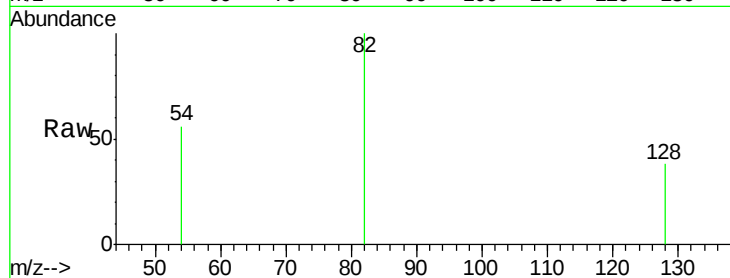
Tgt Ion: 82 Resp: 75945

Ion Ratio Lower Upper

82 100

128 37.9 30.6 46.0

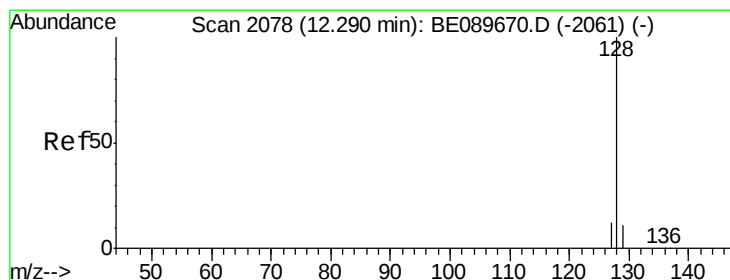
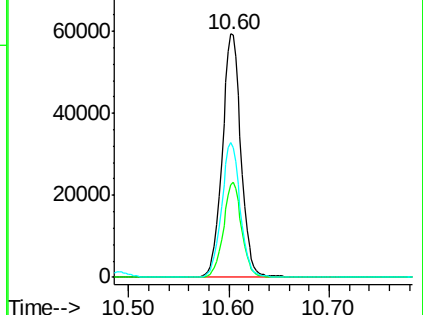
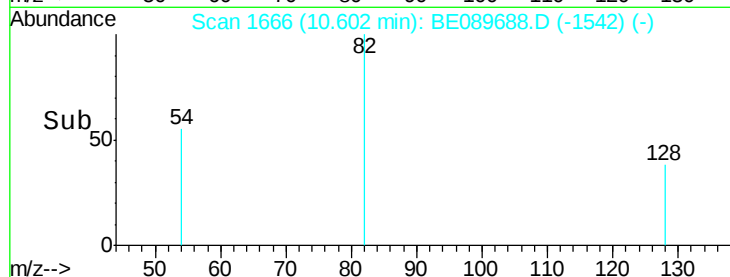
54 55.5 43.6 65.4



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



#6

Naphthalene

Concen: 0.27 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

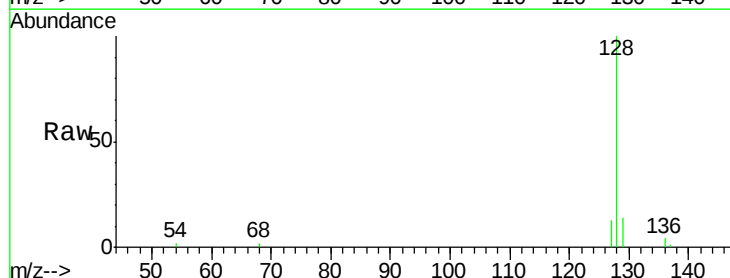
Tgt Ion: 128 Resp: 10485

Ion Ratio Lower Upper

128 100

129 13.6 8.9 13.3#

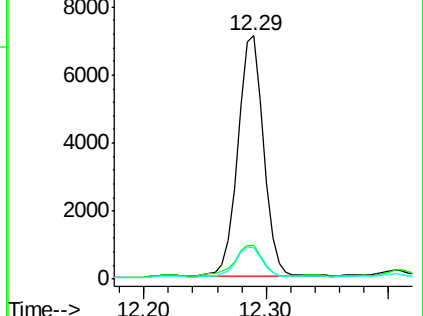
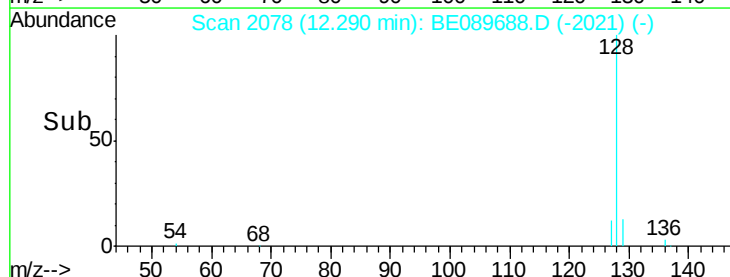
127 12.7 9.7 14.5



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





#7

2-Methylnaphthalene

Concen: 1.33 ng

RT: 13.94 min Scan# 2416

Delta R.T. 0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

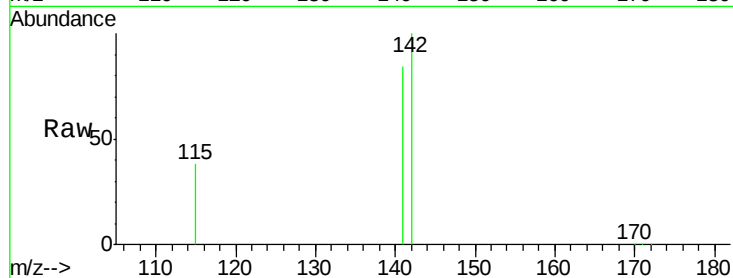
Tgt Ion:142 Resp: 29876

Ion Ratio Lower Upper

142 100

141 83.6 66.0 99.0

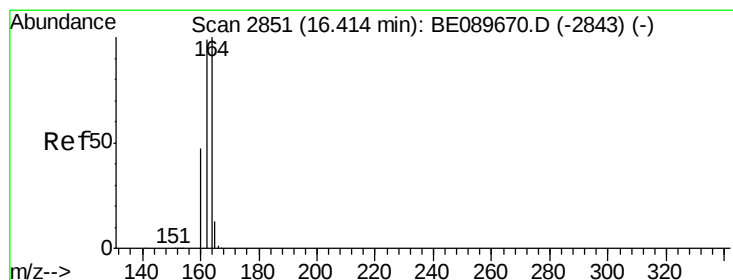
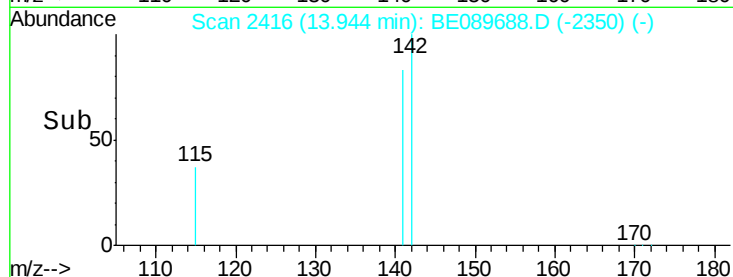
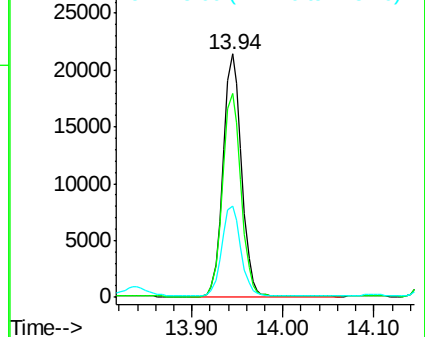
115 37.7 27.4 41.0



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.41 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

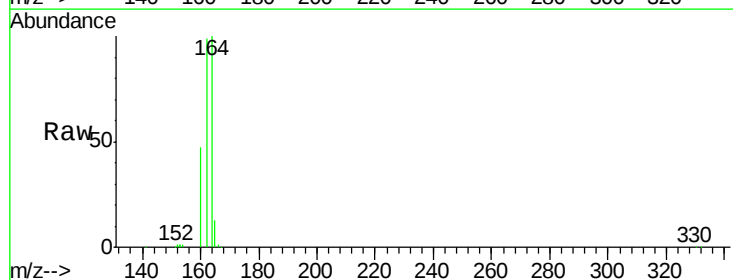
Tgt Ion:164 Resp: 94212

Ion Ratio Lower Upper

164 100

162 98.8 79.4 119.2

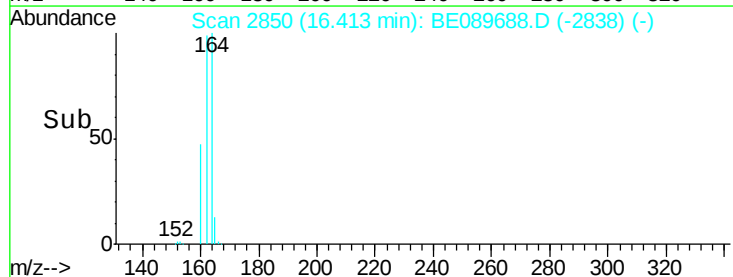
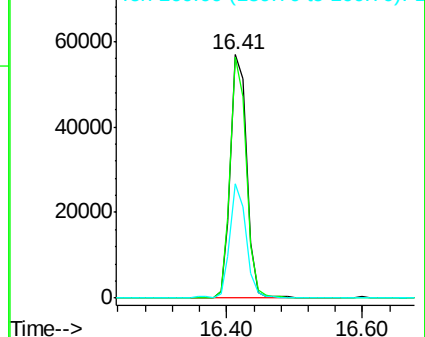
160 46.9 37.6 56.4



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

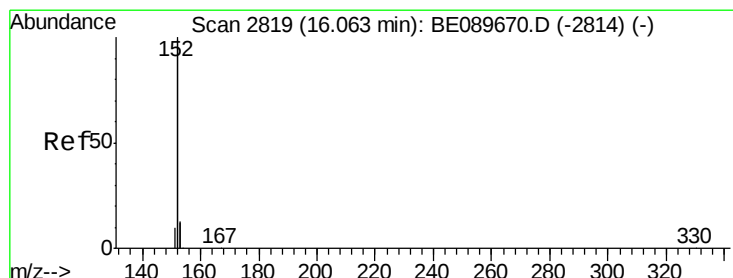
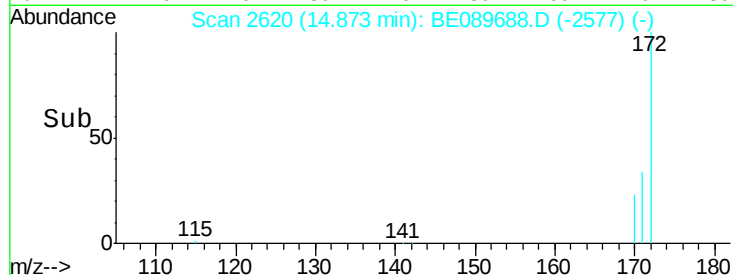
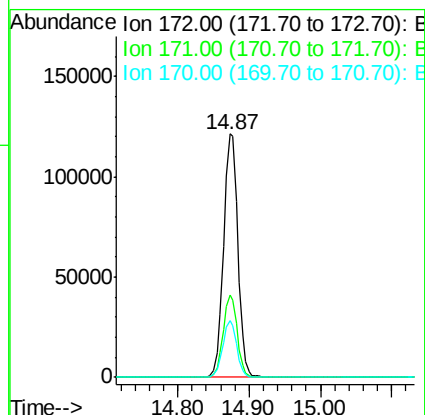
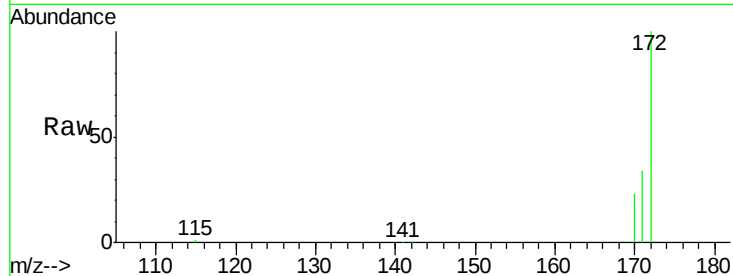




#9
 2-Fluorobiphenyl
 Concen: 8.18 ng
 RT: 14.87 min Scan# 2620
 Delta R.T. 0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

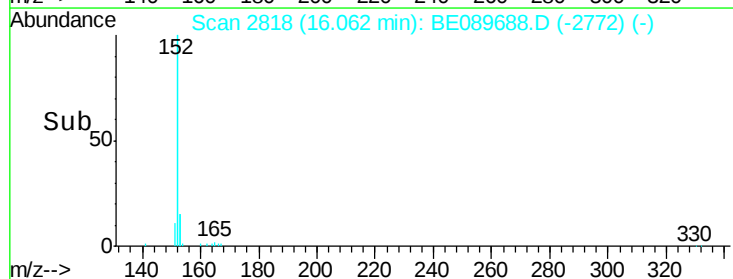
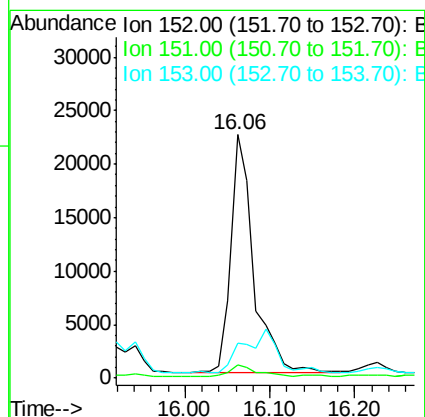
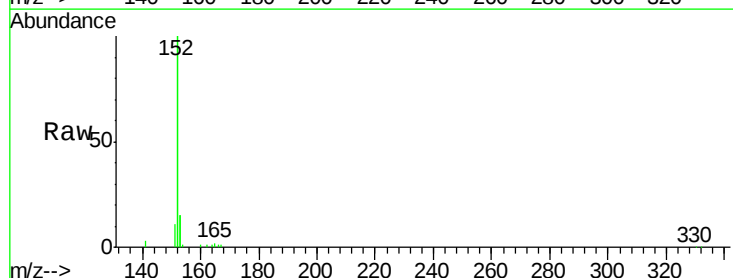
Instrument :
 BNA_E
 ClientSampleId :
 MW-2

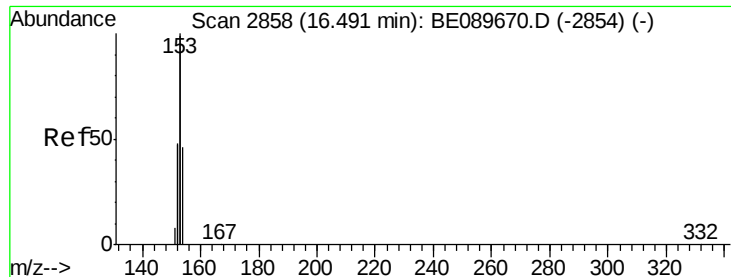
Tgt Ion:172 Resp: 171477
 Ion Ratio Lower Upper
 172 100
 171 34.0 27.3 40.9
 170 23.2 18.5 27.7



#10
 Acenaphthylene
 Concen: 0.31 ng
 RT: 16.06 min Scan# 2818
 Delta R.T. -0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

Tgt Ion:152 Resp: 41338
 Ion Ratio Lower Upper
 152 100
 151 5.3 3.8 5.6
 153 0.0 10.4 15.6#





#11

Acenaphthene

Concen: 0.38 ng

RT: 16.49 min Scan# 2857

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

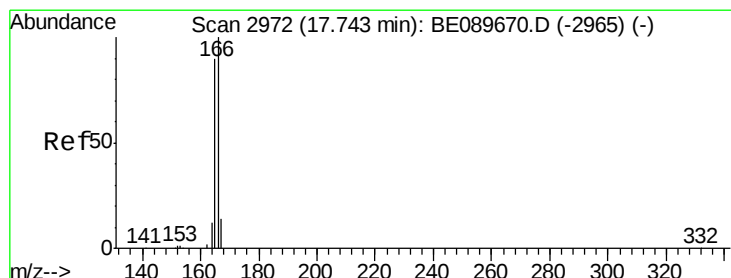
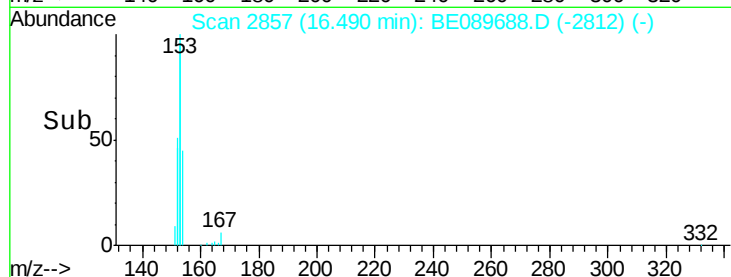
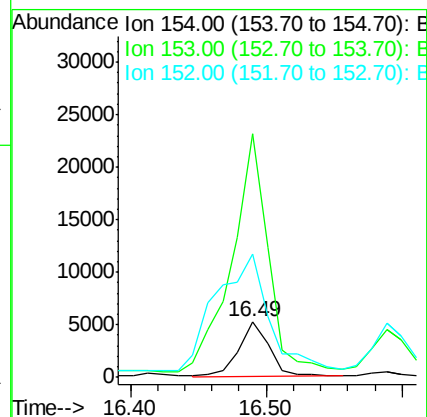
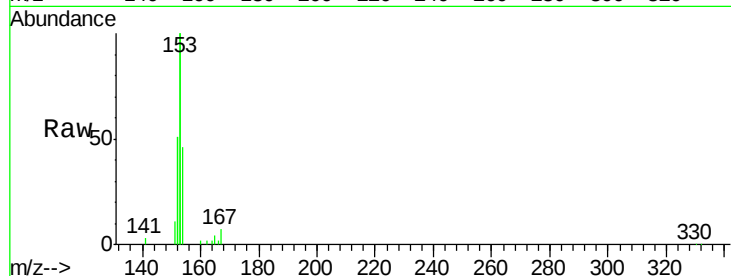
Tgt Ion:154 Resp: 8092

Ion Ratio Lower Upper

154 100

153 512.0 345.8 518.8

152 374.4 168.6 252.8#



#12

Fluorene

Concen: 0.71 ng

RT: 17.74 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

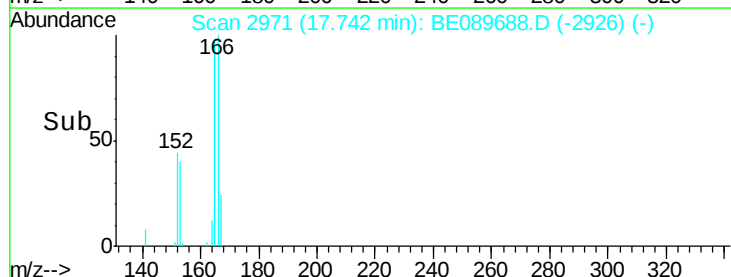
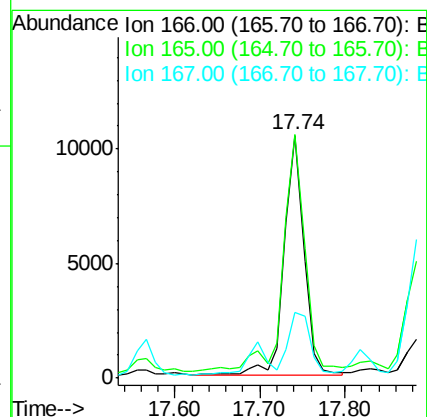
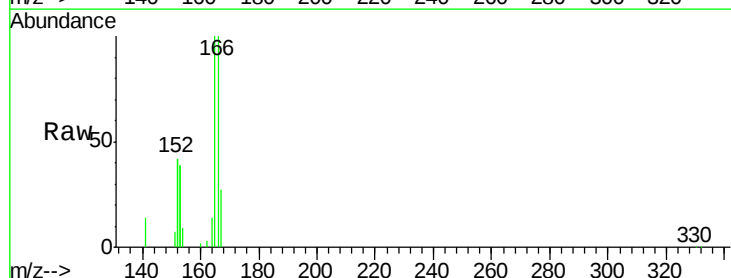
Tgt Ion:166 Resp: 16902

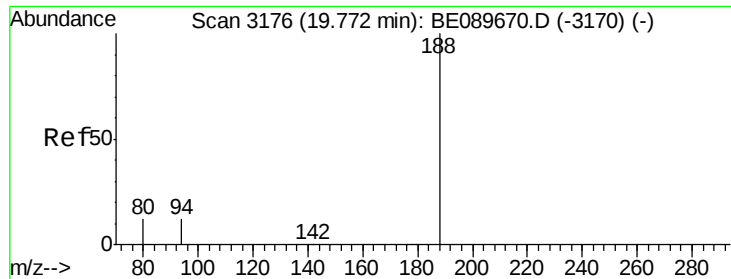
Ion Ratio Lower Upper

166 100

165 108.1 73.6 110.4

167 26.1 10.6 16.0#

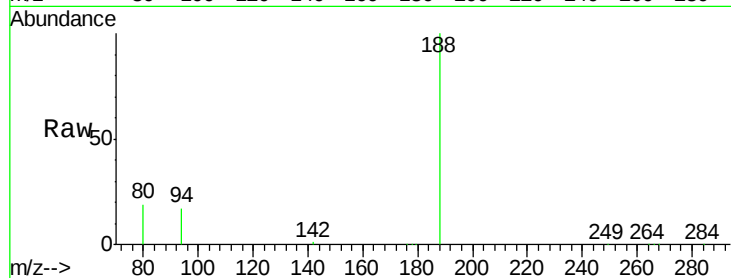




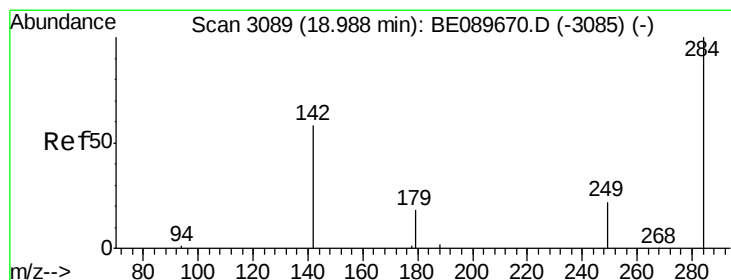
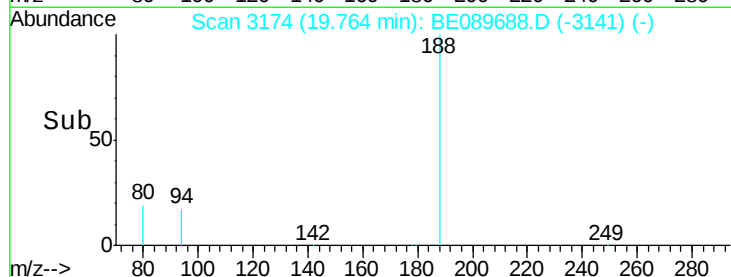
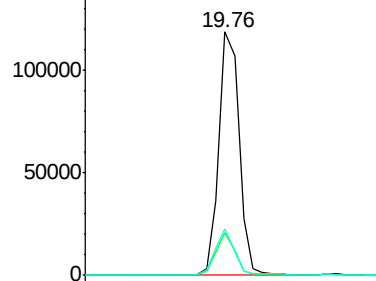
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3174
Delta R.T. 0.00 min
Lab File: BE089688.D
Acq: 25 Feb 2015 20:11

Instrument :
BNA_E
ClientSampleId :
MW-2

Tgt Ion:188 Resp: 161123
Ion Ratio Lower Upper
188 100
94 17.3 9.4 14.2#
80 19.0 9.5 14.3#

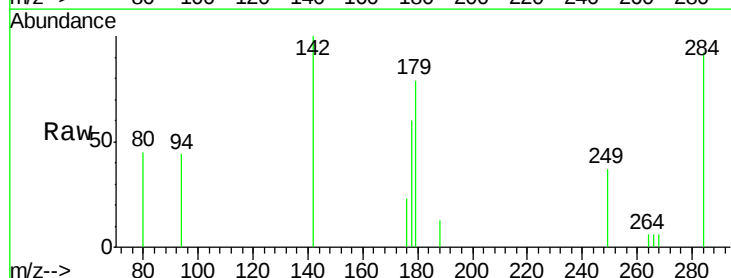


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

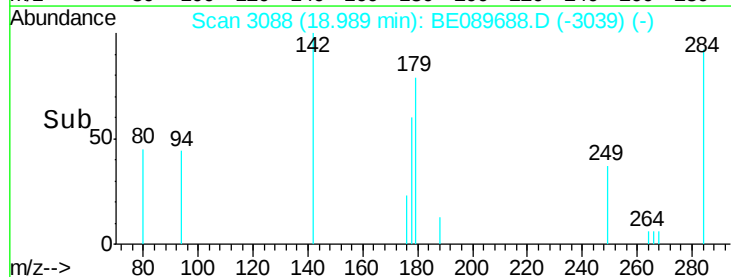
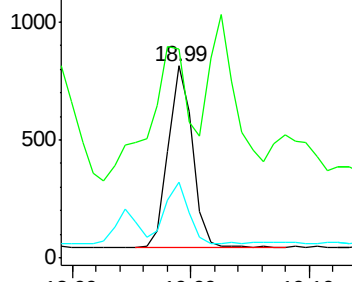


#14
Hexachlorobenzene
Concen: 0.26 ng
RT: 18.99 min Scan# 3088
Delta R.T. 0.00 min
Lab File: BE089688.D
Acq: 25 Feb 2015 20:11

Tgt Ion:284 Resp: 1078
Ion Ratio Lower Upper
284 100
142 141.0 55.4 83.2#
249 32.9 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

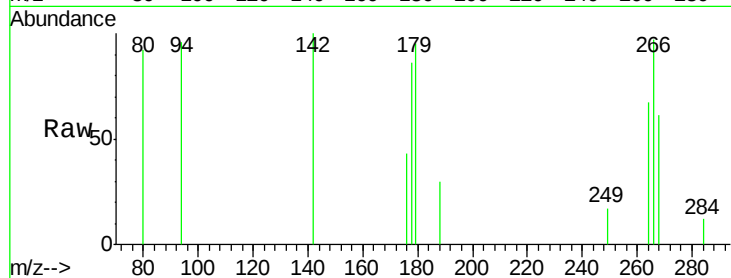




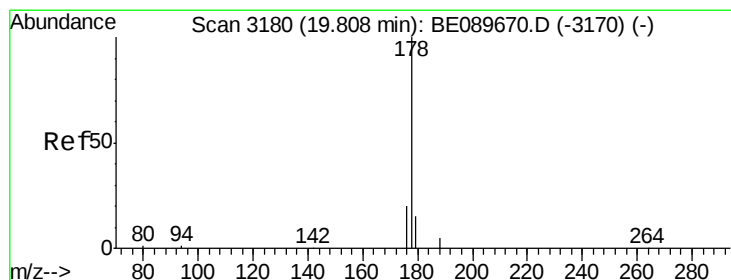
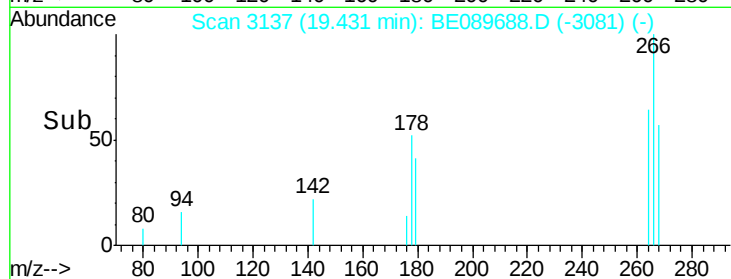
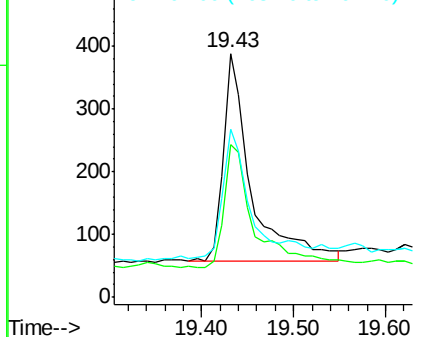
#15
 Pentachlorophenol
 Concen: 1.58 ng
 RT: 19.43 min Scan# 3137
 Delta R.T. 0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

Instrument :
 BNA_E
 ClientSampled :
 MW-2

Tgt Ion: 266 Resp: 693
 Ion Ratio Lower Upper
 266 100
 268 62.9 56.3 84.5
 264 69.1 51.8 77.8

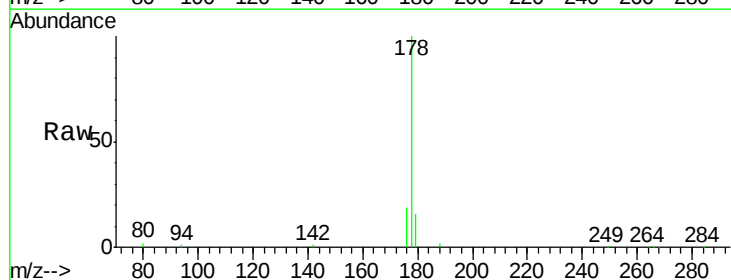


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

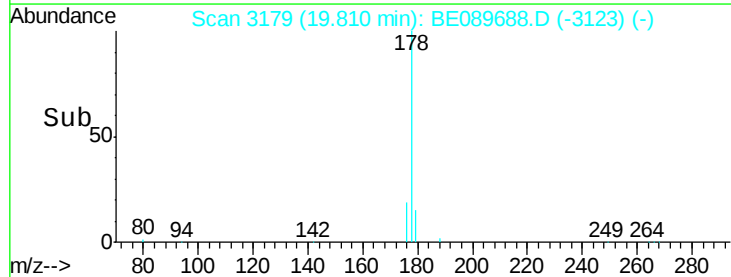
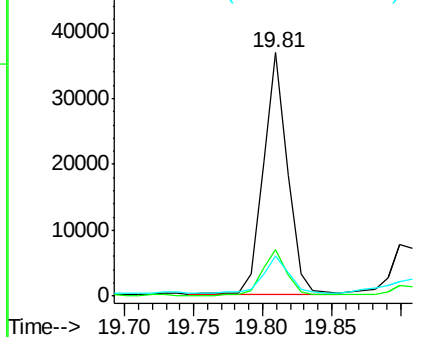


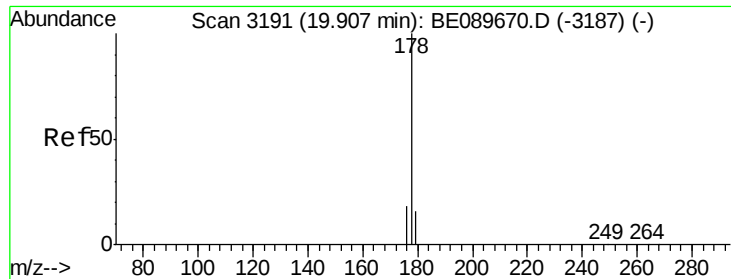
#16
 Phenanthrene
 Concen: 1.29 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

Tgt Ion: 178 Resp: 44399
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.3 22.9
 179 16.1 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

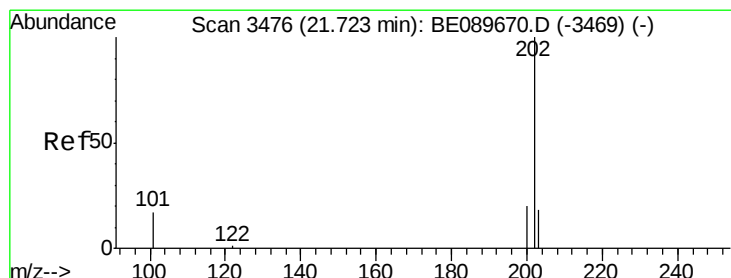
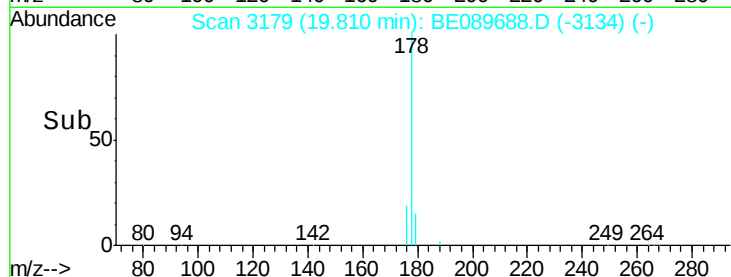
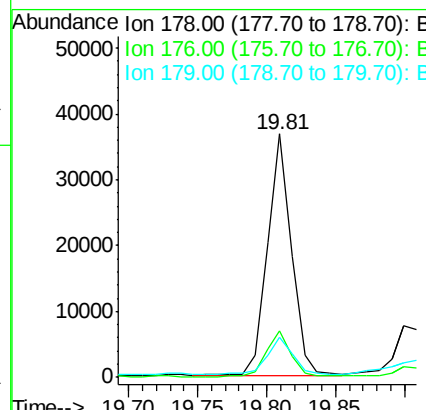
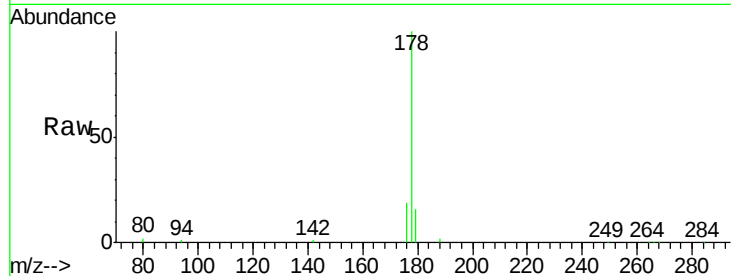




#17
 Anthracene
 Concen: 1.52 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. -0.10 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

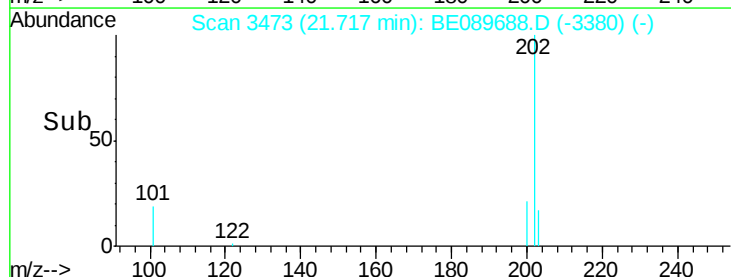
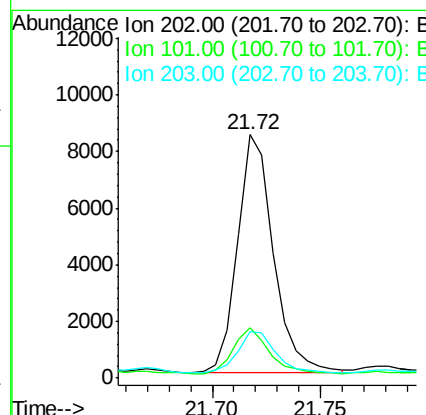
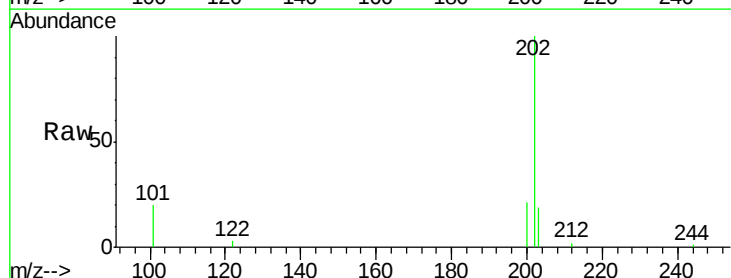
Instrument :
 BNA_E
 ClientSampleId :
 MW-2

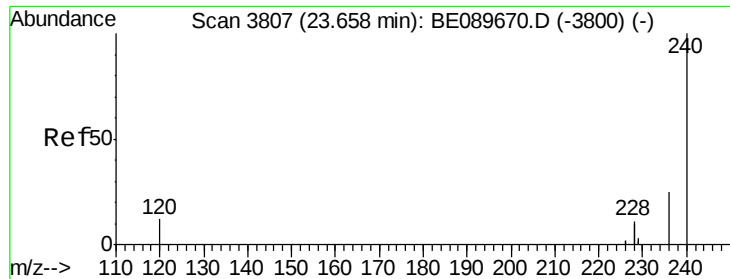
Tgt Ion:178 Resp: 44399
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.8 22.2
 179 16.1 12.2 18.2



#18
 Fluoranthene
 Concen: 0.34 ng
 RT: 21.72 min Scan# 3473
 Delta R.T. -0.01 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

Tgt Ion:202 Resp: 9707
 Ion Ratio Lower Upper
 202 100
 101 18.8 14.9 22.3
 203 17.6 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3804

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

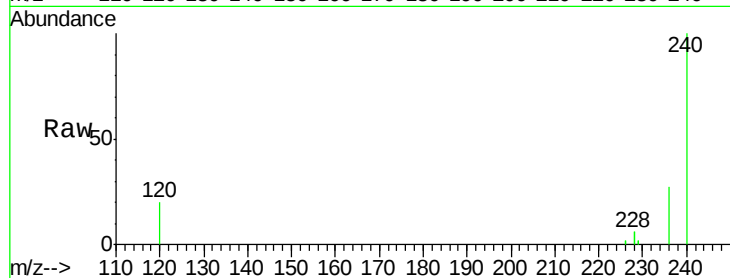
Tgt Ion:240 Resp: 119018

Ion Ratio Lower Upper

240 100

120 19.9 9.4 14.0#

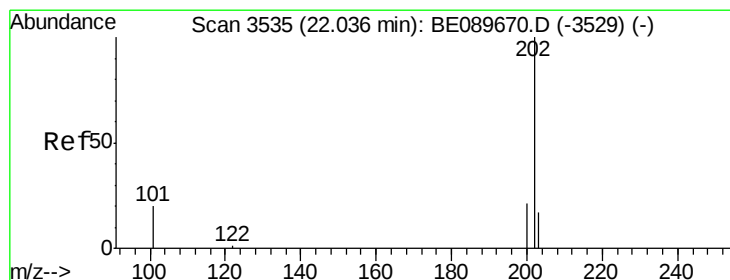
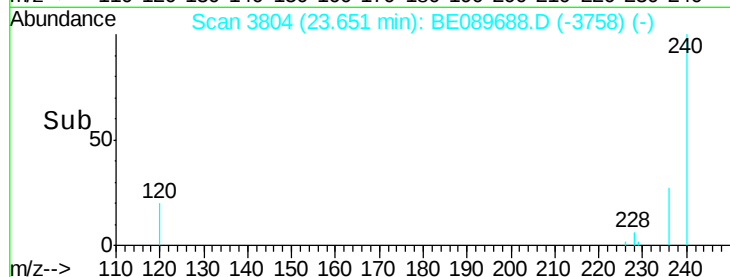
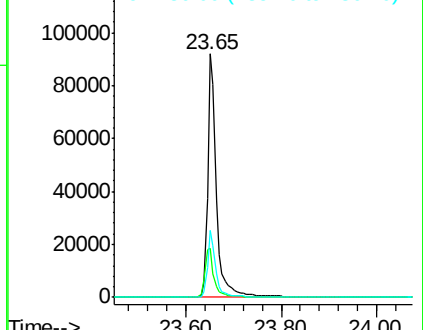
236 27.4 19.9 29.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.34 ng

RT: 21.72 min Scan# 3473

Delta R.T. -0.32 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

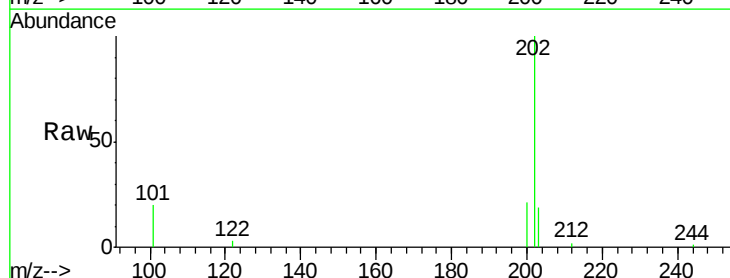
Tgt Ion:202 Resp: 9707

Ion Ratio Lower Upper

202 100

200 20.6 16.4 24.6

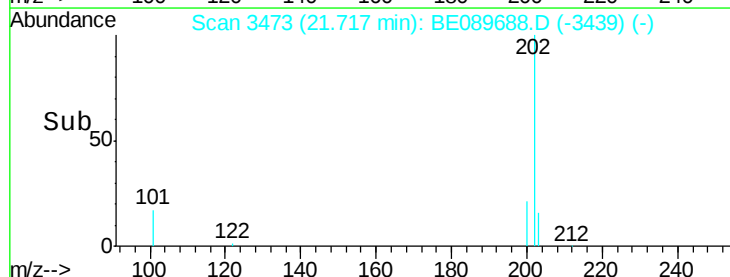
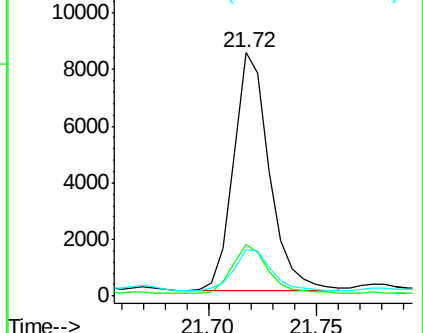
203 17.6 13.9 20.9



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





#21

Terphenyl-d14

Concen: 10.81 ng

RT: 22.30 min Scan# 3583

Delta R.T. 0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

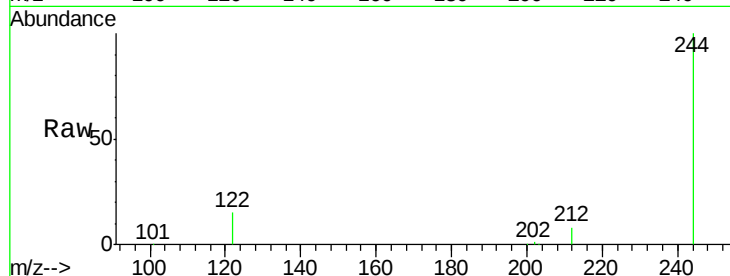
Tgt Ion:244 Resp: 150920

Ion Ratio Lower Upper

244 100

212 7.8 7.0 10.6

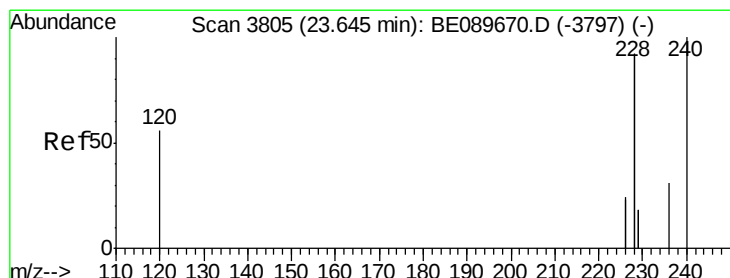
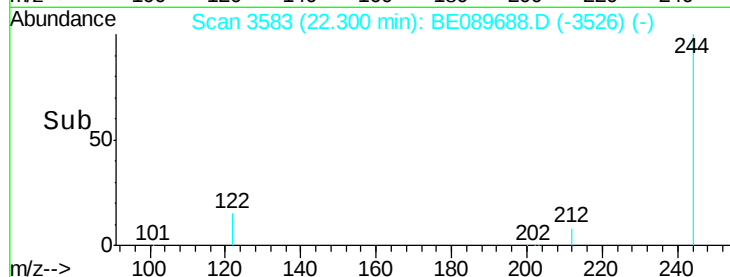
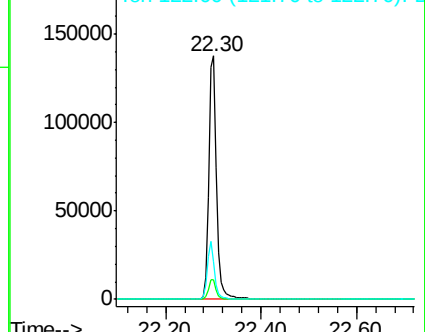
122 15.4 15.4 23.0



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



#22

Benzo(a)anthracene

Concen: 0.33 ng

RT: 23.64 min Scan# 3803

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

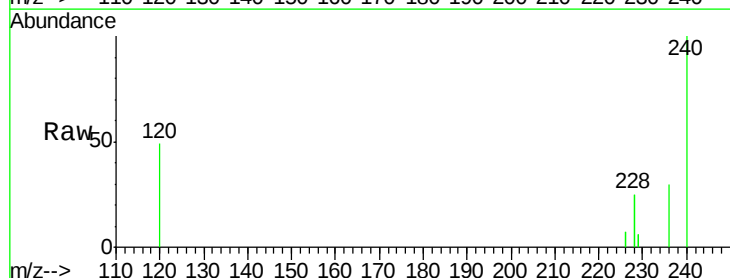
Tgt Ion:228 Resp: 25442

Ion Ratio Lower Upper

228 100

226 26.3 20.6 31.0

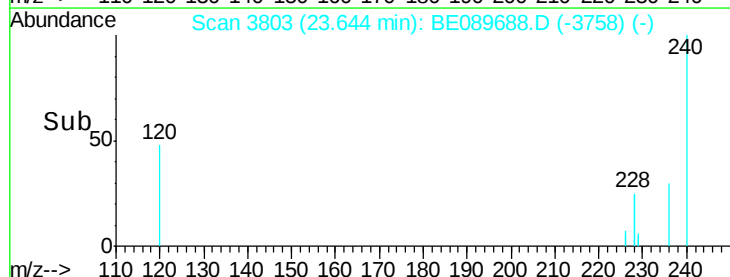
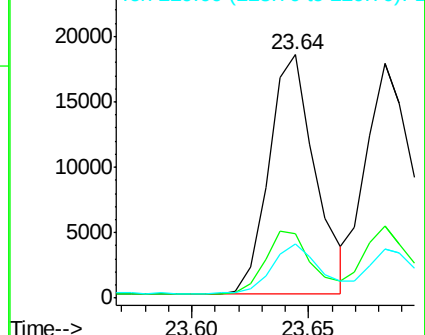
229 22.4 15.8 23.6



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





#23

Chrysene

Concen: 0.31 ng

RT: 23.68 min Scan# 3809

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

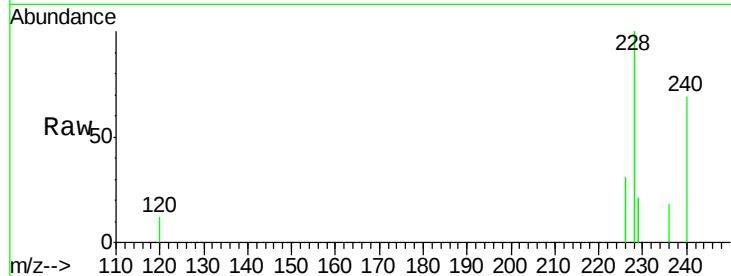
Tgt Ion:228 Resp: 33071

Ion Ratio Lower Upper

228 100

226 30.5 23.6 35.4

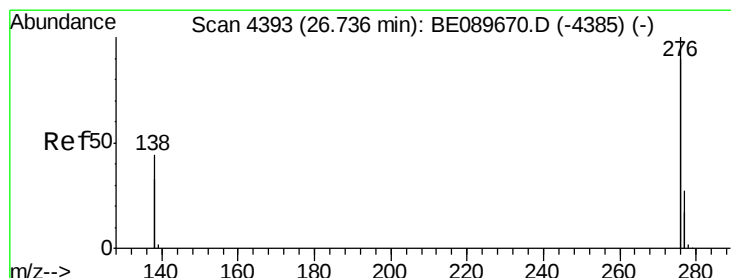
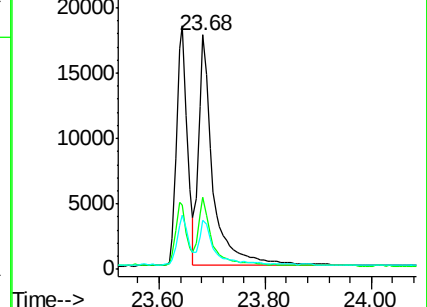
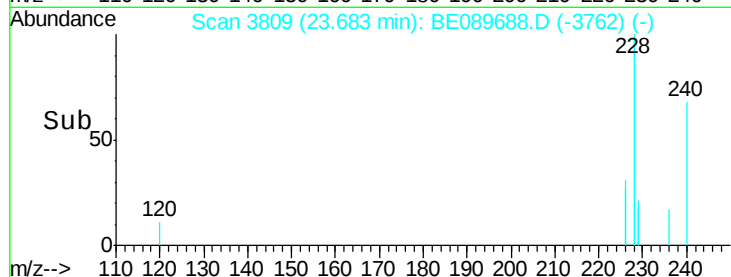
229 21.1 15.3 22.9



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.52 ng

RT: 26.73 min Scan# 4391

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

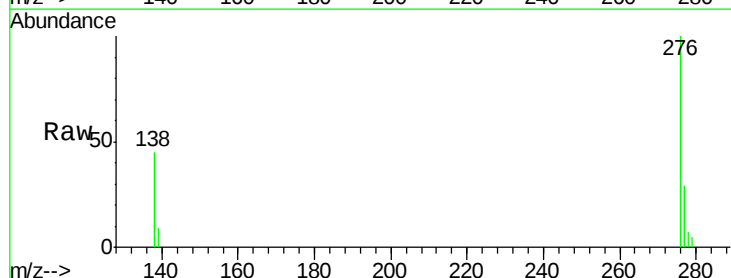
Tgt Ion:276 Resp: 13915

Ion Ratio Lower Upper

276 100

138 38.9 0.0 0.0#

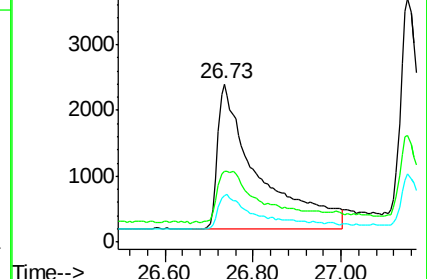
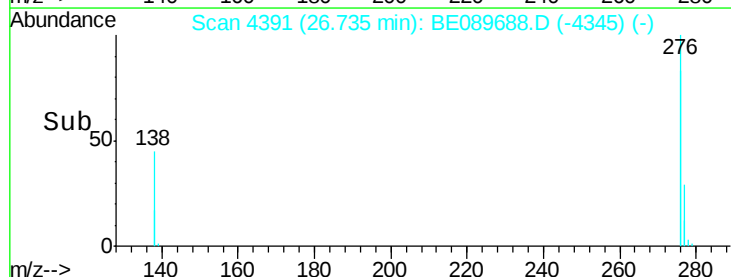
277 22.2 5.2 7.8#

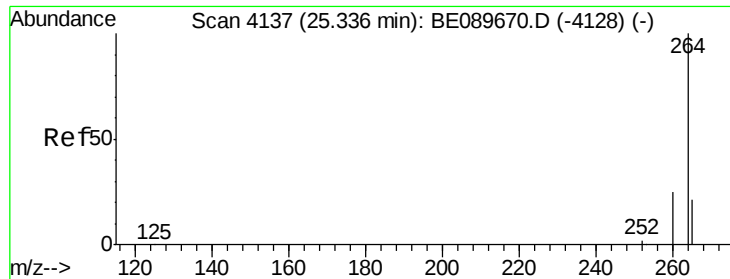


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

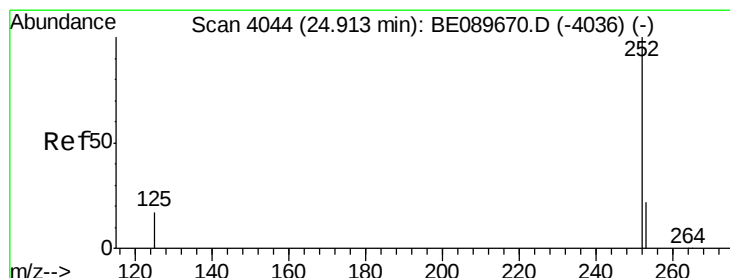
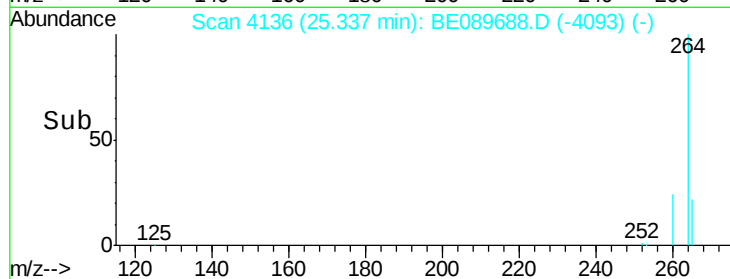
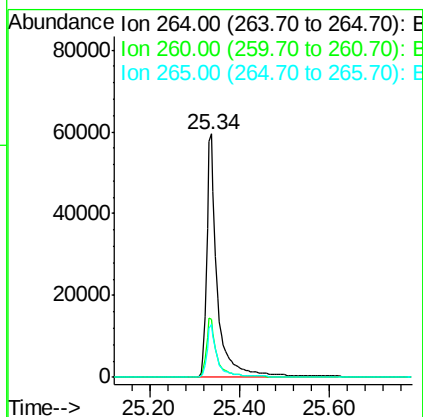
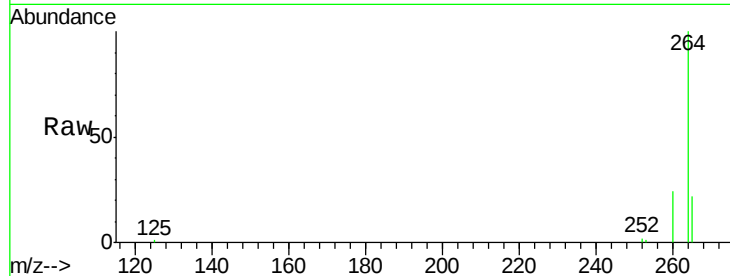




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4136
 Delta R.T. 0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

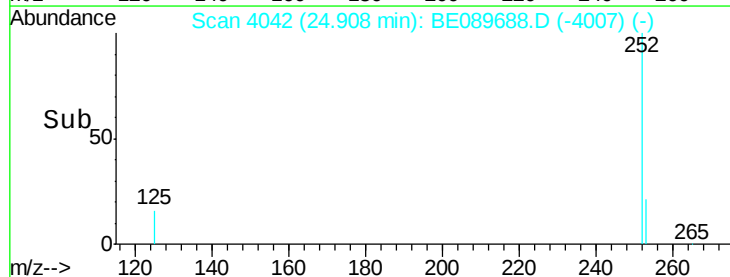
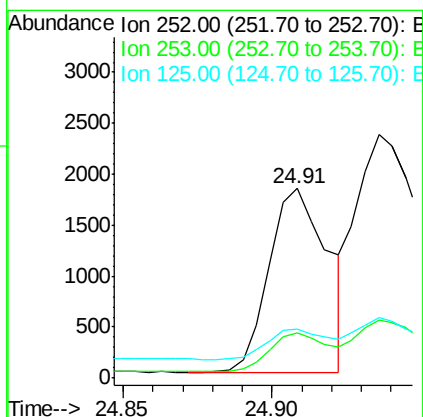
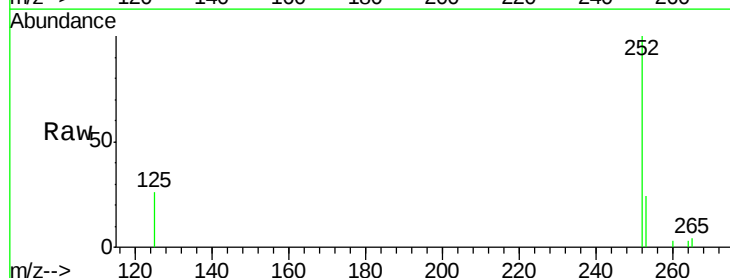
Instrument :
 BNA_E
 ClientSampleId :
 MW-2

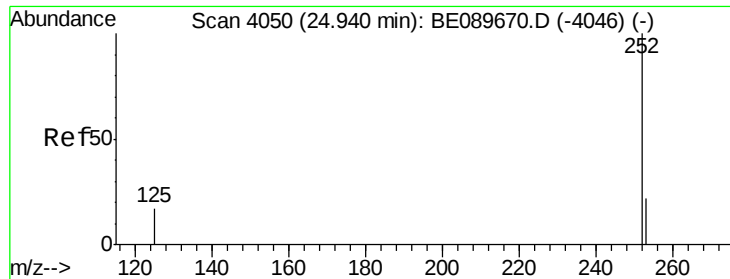
Tgt Ion: 264 Resp: 98623
 Ion Ratio Lower Upper
 264 100
 260 24.1 20.2 30.4
 265 21.9 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 0.47 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. 0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 20:11

Tgt Ion: 252 Resp: 2466
 Ion Ratio Lower Upper
 252 100
 253 23.9 18.6 27.8
 125 26.1 15.0 22.6#





#27

Benzo(k)fluoranthene

Concen: 0.35 ng

RT: 24.94 min Scan# 4048

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

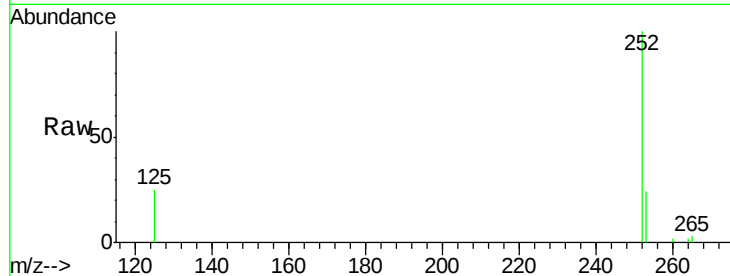
Tgt Ion:252 Resp: 7085

Ion Ratio Lower Upper

252 100

253 24.1 18.0 27.0

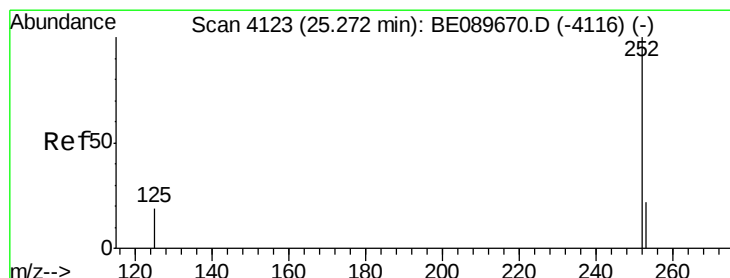
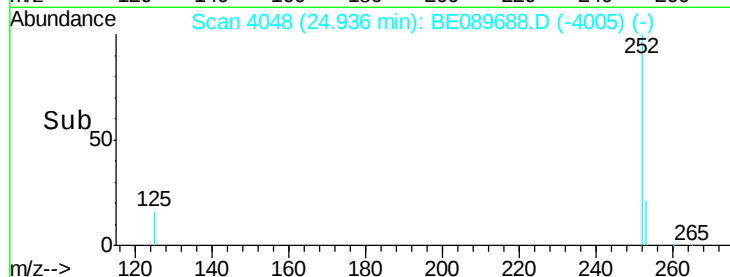
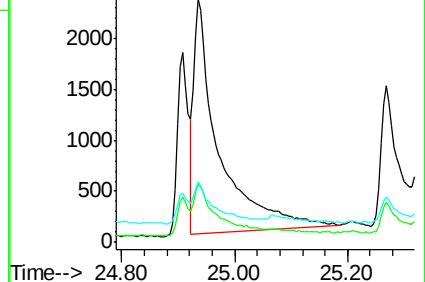
125 24.9 14.3 21.5#



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



#28

Benzo(a)pyrene

Concen: 0.43 ng

RT: 25.27 min Scan# 4121

Delta R.T. 0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

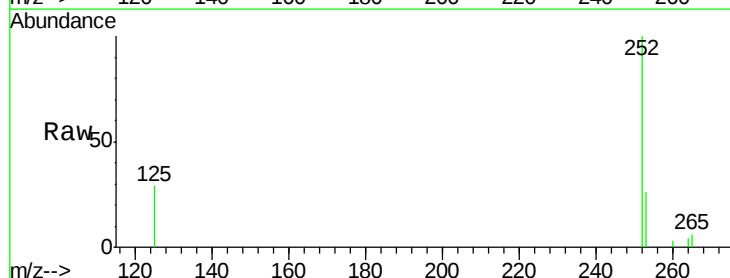
Tgt Ion:252 Resp: 2825

Ion Ratio Lower Upper

252 100

253 25.8 18.8 28.2

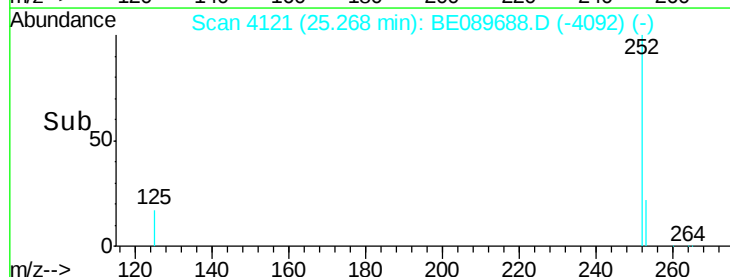
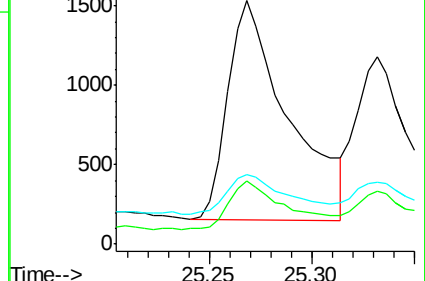
125 28.8 16.6 24.8#



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





#29

Dibenzo(a,h)anthracene

Concen: 0.48 ng

RT: 26.76 min Scan# 4395

Delta R.T. -0.01 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

Instrument :

BNA_E

ClientSampleId :

MW-2

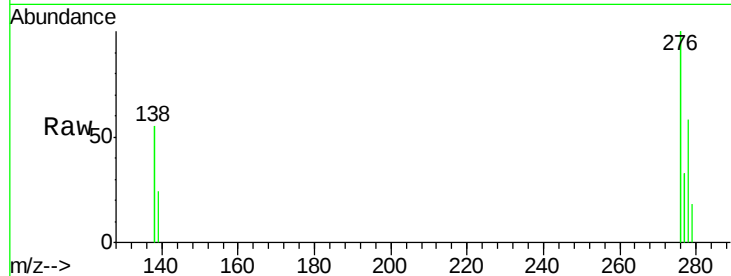
Tgt Ion: 278 Resp: 2212

Ion Ratio Lower Upper

278 100

139 42.3 30.4 45.6

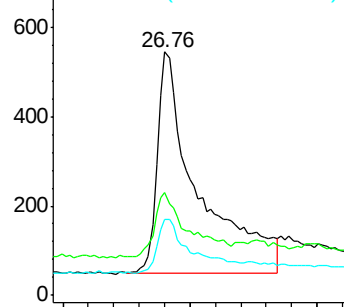
279 31.4 22.0 33.0



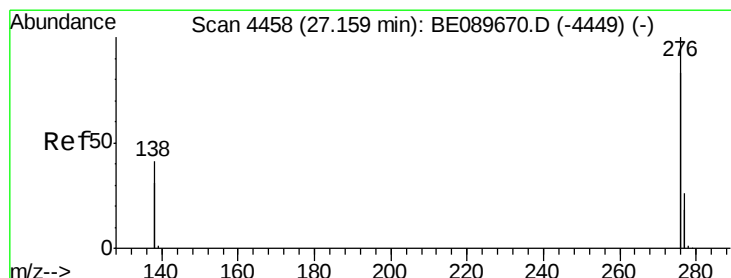
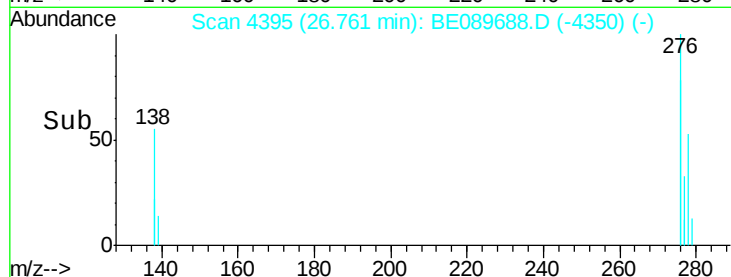
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time--> 26.60 26.80 27.00



#30

Benzo(g,h,i)perylene

Concen: 0.43 ng

RT: 27.15 min Scan# 4455

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 20:11

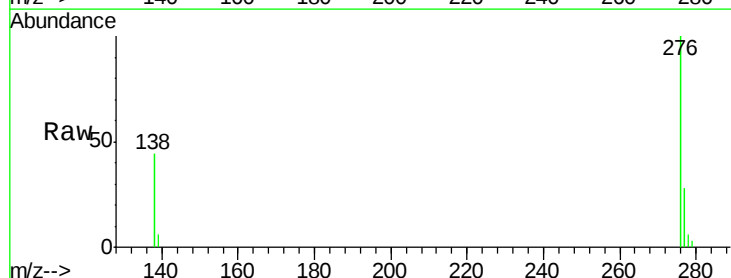
Tgt Ion: 276 Resp: 15919

Ion Ratio Lower Upper

276 100

277 28.3 21.0 31.6

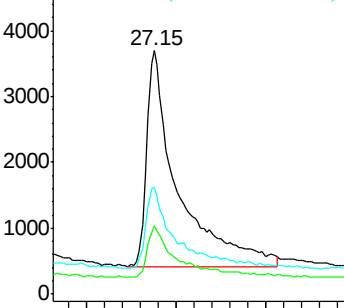
138 43.6 33.0 49.4



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



Time--> 27.00 27.20 27.40

