

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089823.D
 Acq On : 24 Mar 2015 20:53
 Operator : TP/JJ
 Sample : G1575-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-25V

Quant Time: Mar 25 02:33:08 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 24 18:03:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	157322	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	664526	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	300616	5.00	ng	0.00
13) Phenanthrene-d10	17.92	188	524840	5.00	ng	0.00
19) Chrysene-d12	24.26	240	502426	5.00	ng	0.00
25) Perylene-d12	27.41	264	460726	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	120771	2.67	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	196057	2.79	ng	0.00
21) Terphenyl-d14	21.86	244	225188	3.04	ng	0.00

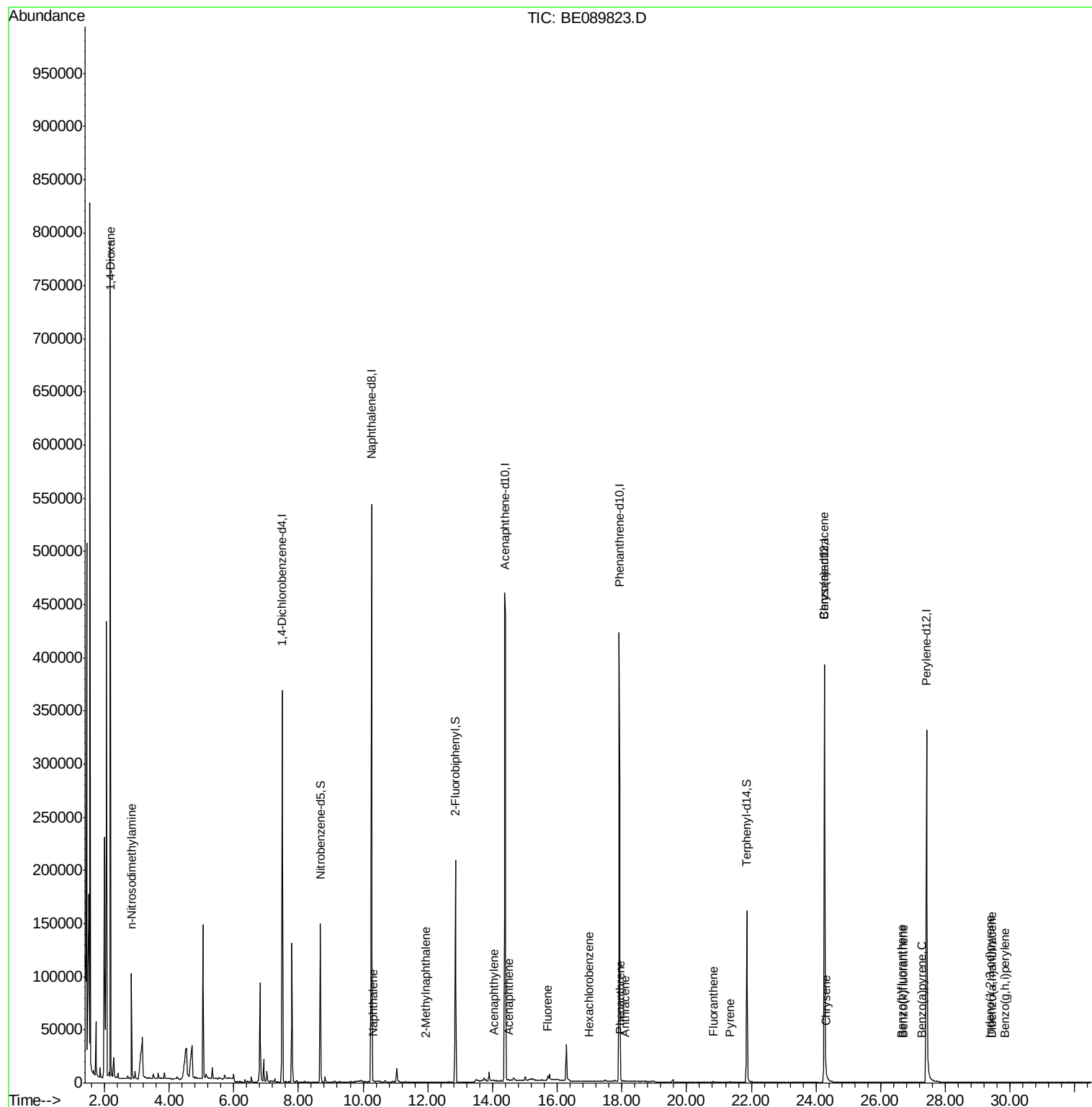
Target Compounds						Qvalue
2) 1,4-Dioxane	2.19	88	20500	1.01	ng	# 1
3) n-Nitrosodimethylamine	2.84	42	5649	0.19	ng	# 1
6) Naphthalene	10.30	128	932	0.01	ng	# 64
7) 2-Methylnaphthalene	11.93	142	330	0.00	ng	# 74
10) Acenaphthylene	14.04	152	1165	0.00	ng	# 89
11) Acenaphthene	14.49	154	549	0.01	ng	# 1
12) Fluorene	15.71	166	968	0.01	ng	# 1
14) Hexachlorobenzene	16.98	284	54	0.00	ng	# 75
15) Pentachlorophenol	17.49	266	579	Below Cal		# 90
16) Phenanthrene	17.97	178	1385	0.01	ng	# 89
17) Anthracene	18.10	178	403	0.00	ng	# 24
18) Fluoranthene	20.82	202	1563	0.02	ng	# 70
20) Pyrene	21.34	202	1335	0.01	ng	# 83
22) Benzo(a)anthracene	24.26	228	1994	0.02	ng	# 88
23) Chrysene	24.32	228	777	0.01	ng	# 70
24) Indeno(1,2,3-cd)pyrene	29.39	276	224	0.42	ng	# 69
26) Benzo(b)fluoranthene	26.64	252	714	0.32	ng	# 22
27) Benzo(k)fluoranthene	26.69	252	49	0.00	ng	# 1
28) Benzo(a)pyrene	27.28	252	116	0.30	ng	# 1
29) Dibenzo(a,h)anthracene	29.43	278	65	0.42	ng	# 1
30) Benzo(g,h,i)perylene	29.82	276	338	0.26	ng	# 31

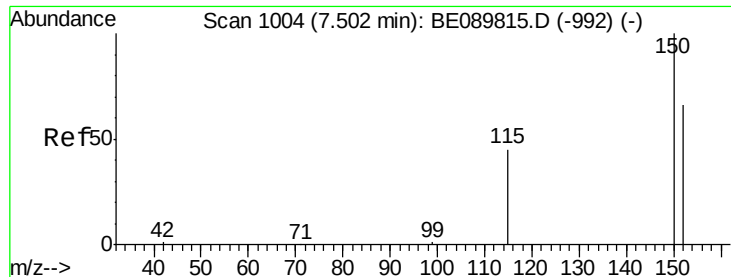
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.50 min Scan# 1003

Delta R.T. -0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

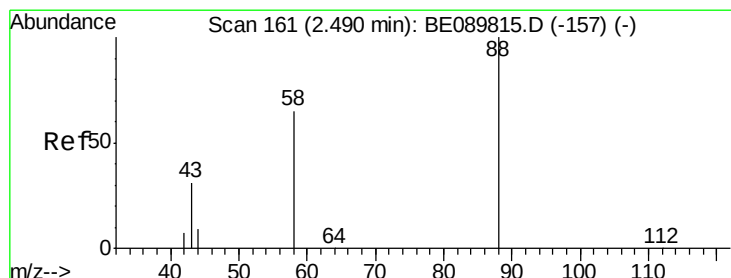
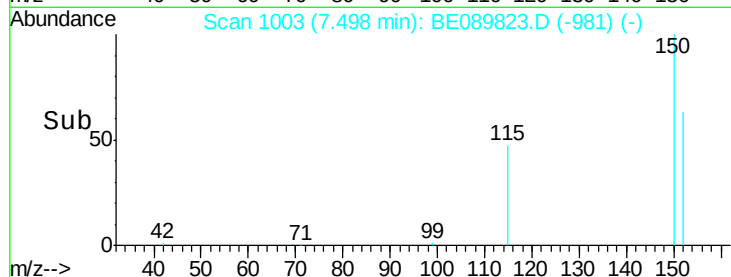
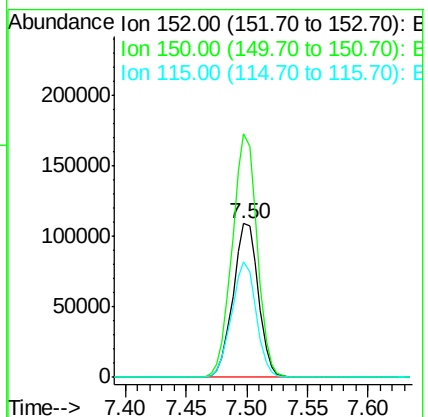
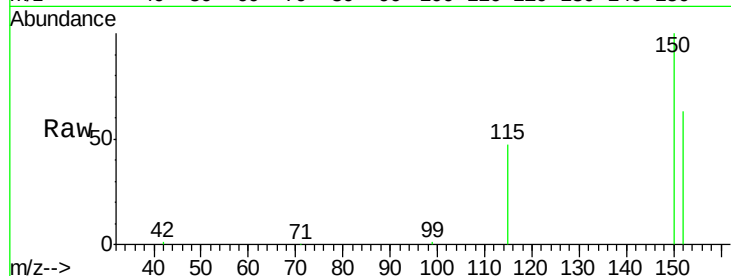
Tgt Ion:152 Resp: 157322

Ion Ratio Lower Upper

152 100

150 158.3 125.5 188.3

115 75.1 58.0 87.0



#2

1,4-Dioxane

Concen: 1.01 ng

RT: 2.19 min Scan# 117

Delta R.T. -0.33 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

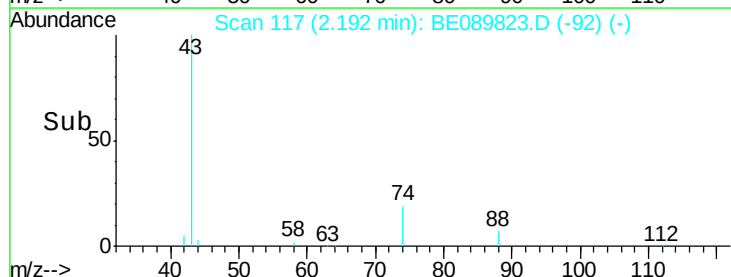
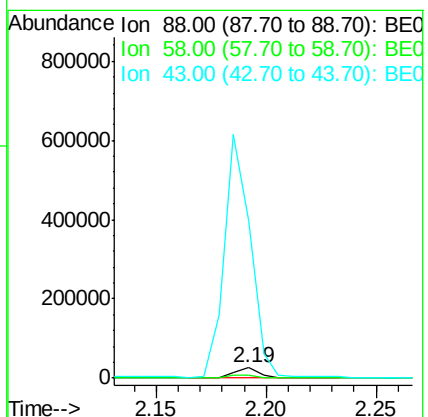
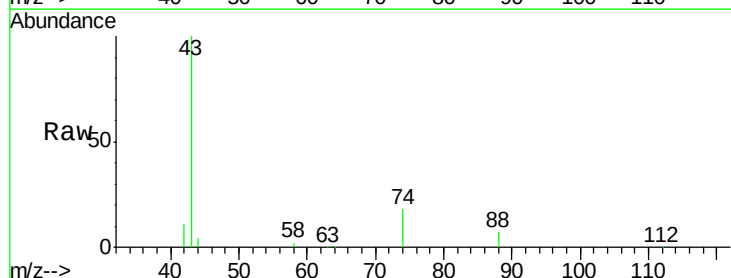
Tgt Ion: 88 Resp: 20500

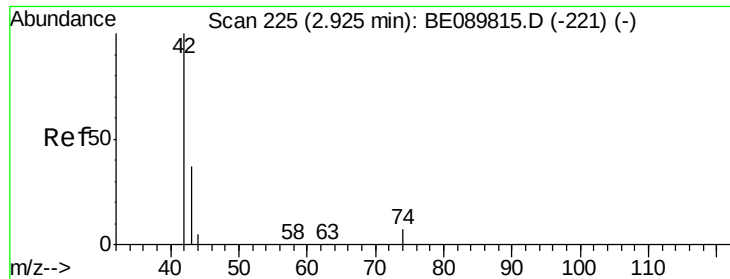
Ion Ratio Lower Upper

88 100

58 31.1 48.6 72.8#

43 2460.2 28.6 43.0#





#3

n-Nitrosodimethylamine

Concen: 0.19 ng

RT: 2.84 min Scan# 213

Delta R.T. -0.15 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

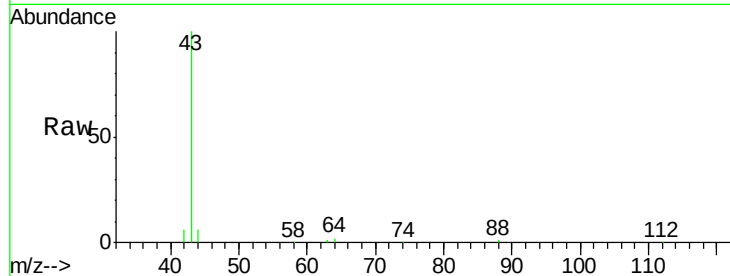
Tgt Ion: 42 Resp: 5649

Ion Ratio Lower Upper

42 100

74 0.0 68.7 103.1#

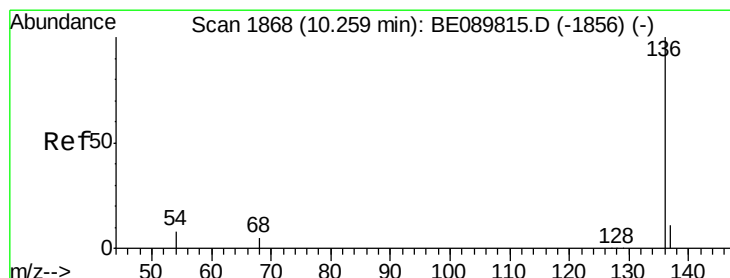
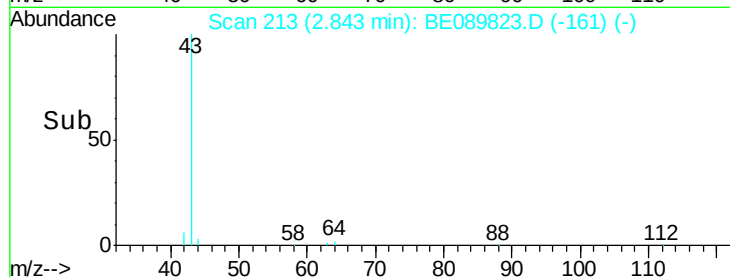
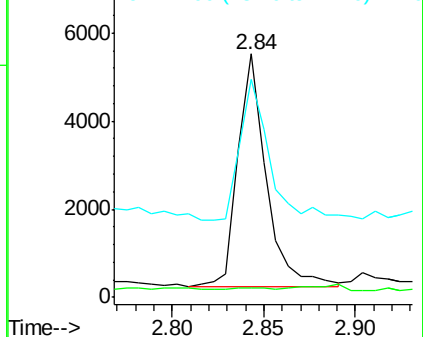
44 63.6 6.2 9.4#



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: 10.26 min Scan# 1868

Delta R.T. 0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

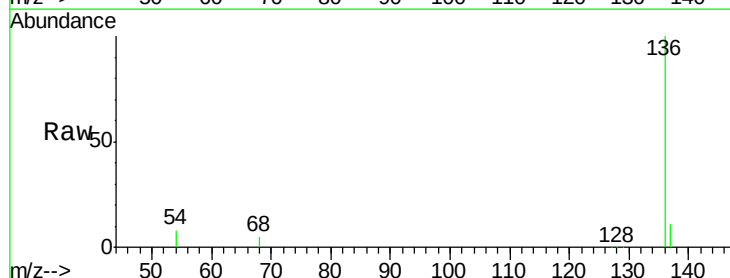
Tgt Ion: 136 Resp: 664526

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

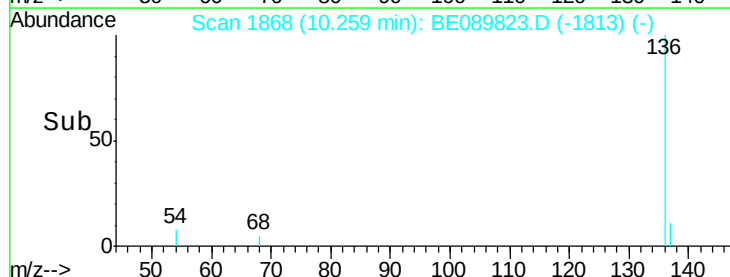
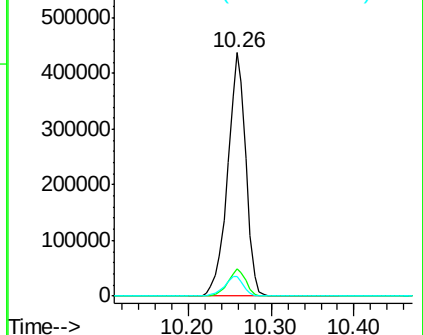
54 8.0 7.0 10.4

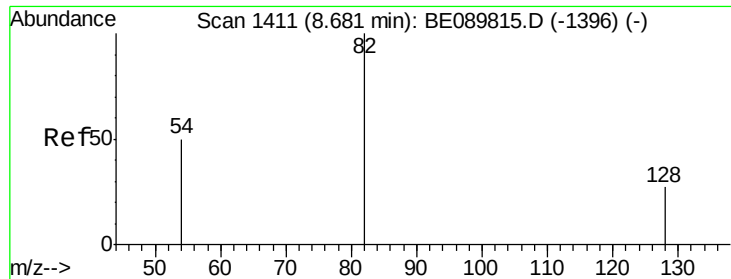


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 2.67 ng

RT: 8.68 min Scan# 1410

Delta R.T. -0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampled :

MW-25V

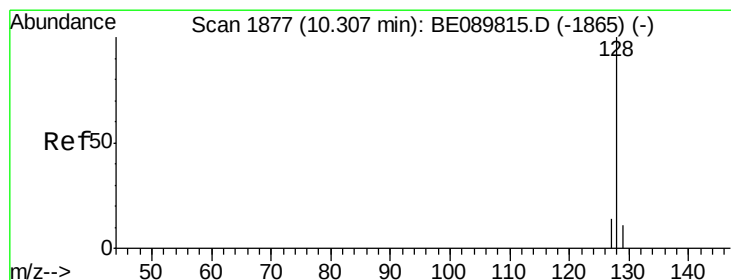
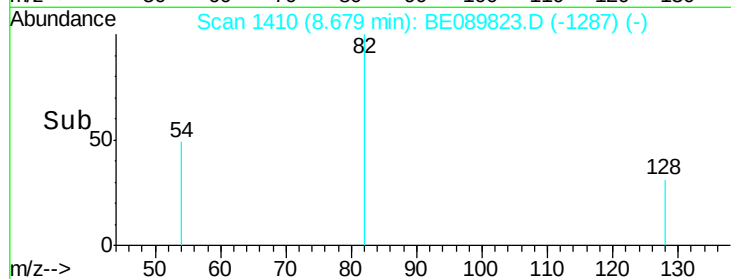
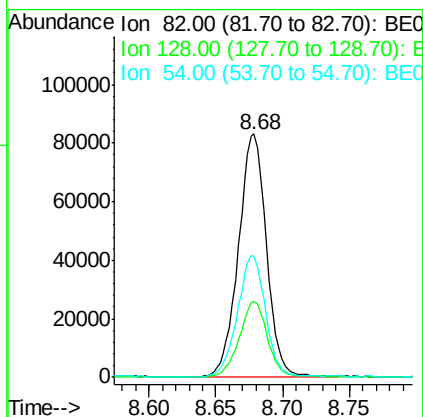
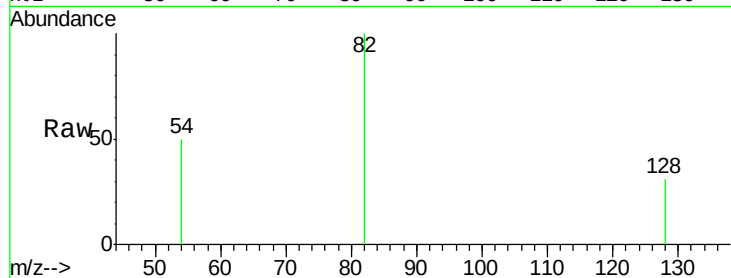
Tgt Ion: 82 Resp: 120771

Ion Ratio Lower Upper

82 100

128 30.9 24.6 37.0

54 49.7 43.0 64.6



#6

Naphthalene

Concen: 0.01 ng

RT: 10.30 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

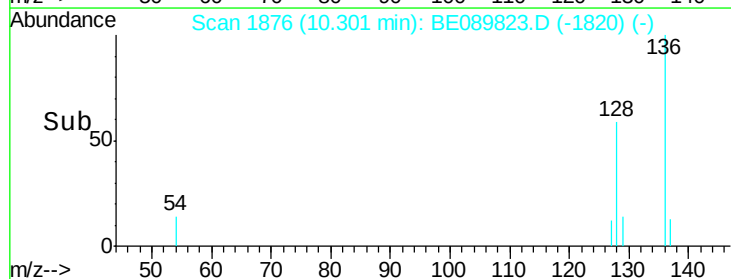
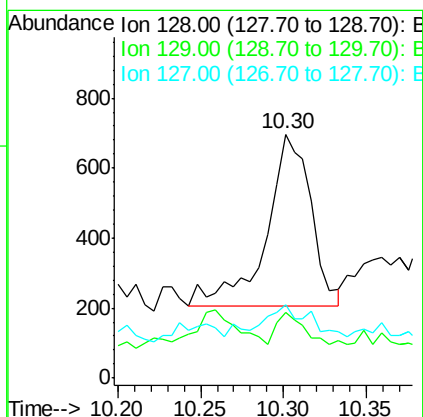
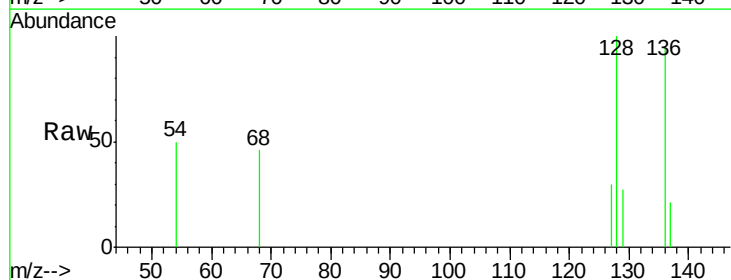
Tgt Ion: 128 Resp: 932

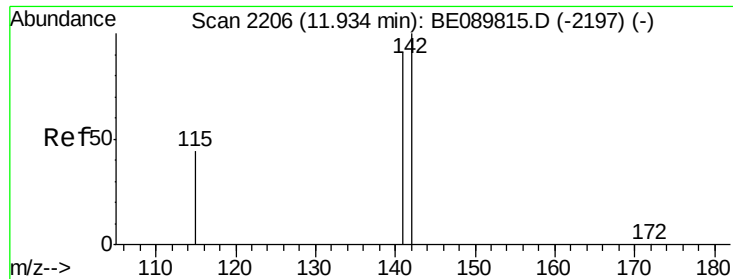
Ion Ratio Lower Upper

128 100

129 26.7 10.0 15.0#

127 30.3 12.5 18.7#





#7

2-Methylnaphthalene

Concen: 0.00 ng

RT: 11.93 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

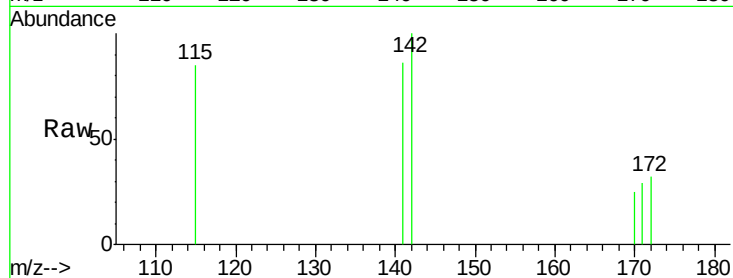
Tgt Ion:142 Resp: 330

Ion Ratio Lower Upper

142 100

141 85.5 72.8 109.2

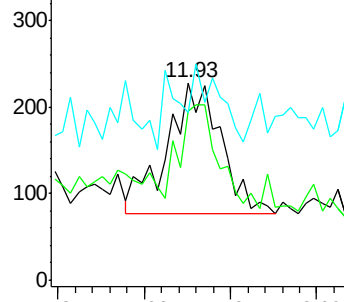
115 84.6 32.9 49.3#



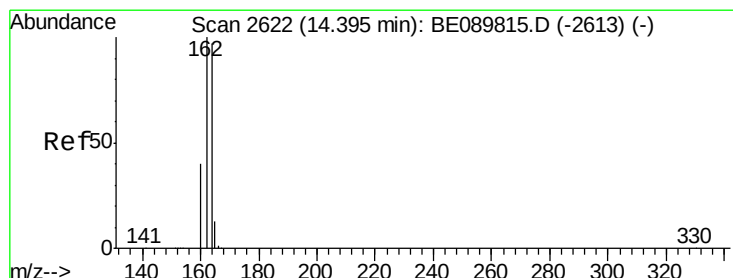
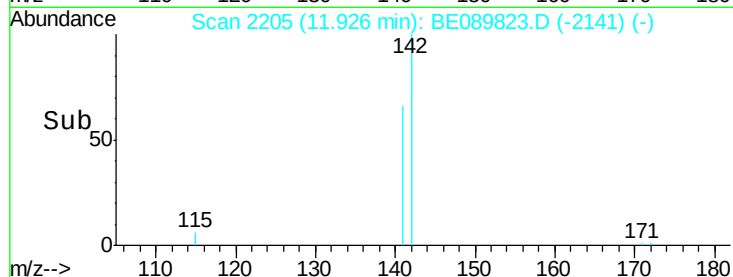
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 2623

Delta R.T. 0.01 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

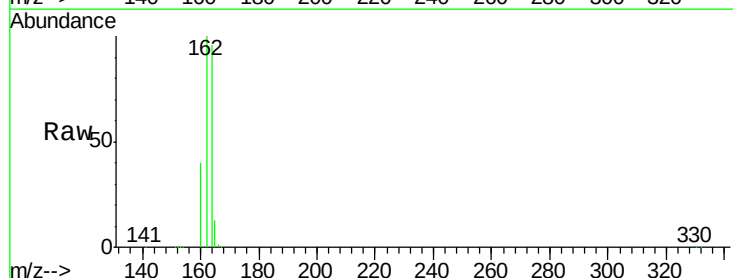
Tgt Ion:164 Resp: 300616

Ion Ratio Lower Upper

164 100

162 103.7 87.6 131.4

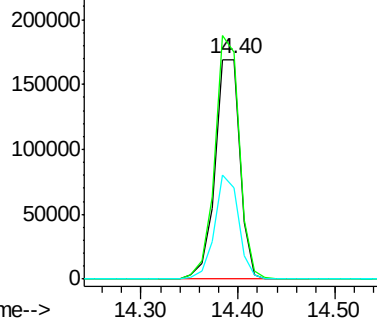
160 41.5 36.7 55.1



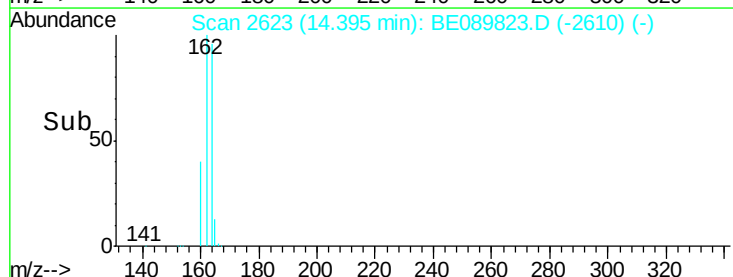
Abundance Ion 164.00 (163.70 to 164.70): E

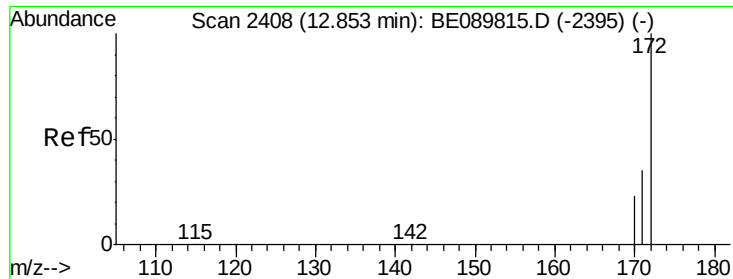
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->

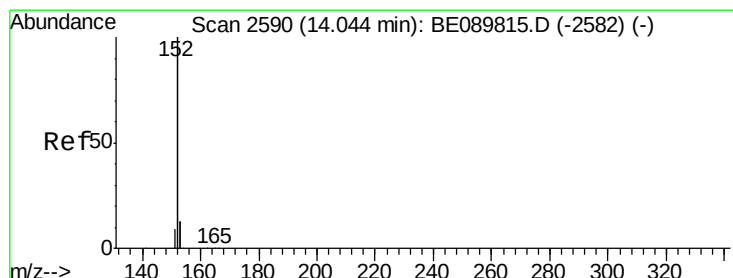
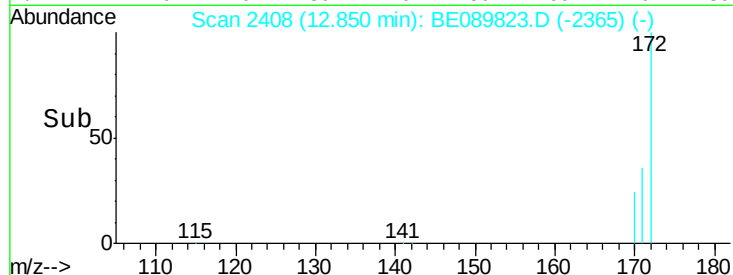
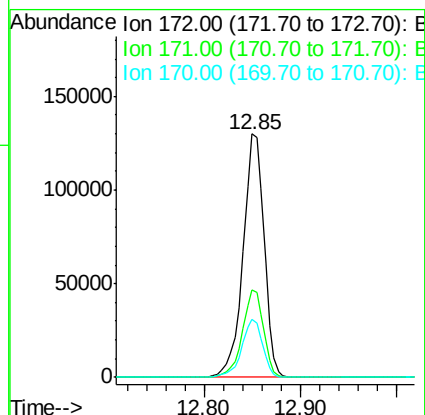
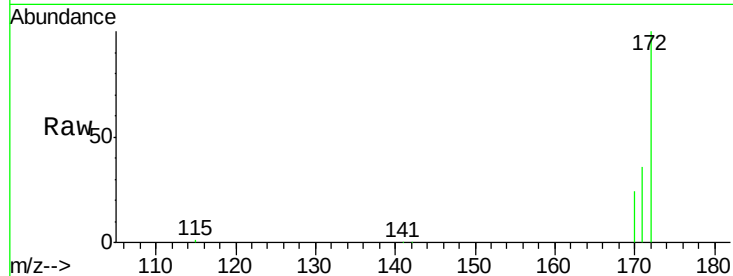




#9
2-Fluorobiphenyl
Concen: 2.79 ng
RT: 12.85 min Scan# 2408
Delta R.T. -0.00 min
Lab File: BE089823.D
Acq: 24 Mar 2015 20:53

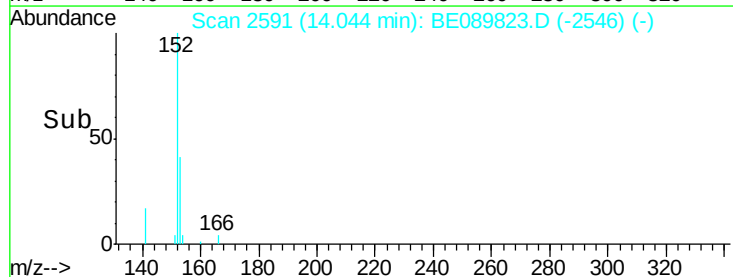
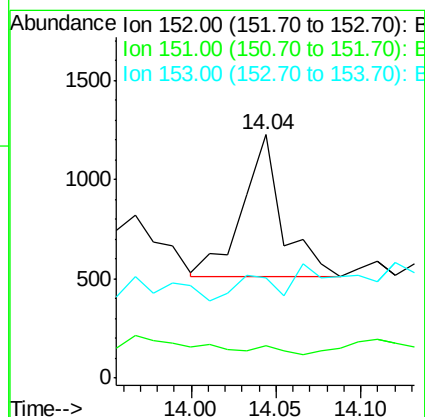
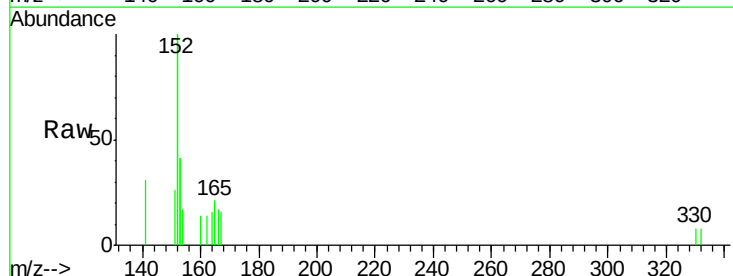
Instrument :
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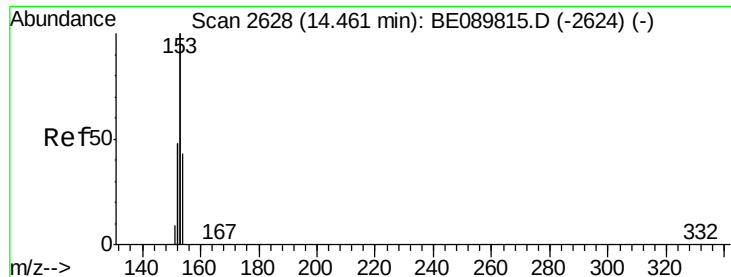
Tgt Ion:172 Resp: 196057
Ion Ratio Lower Upper
172 100
171 36.2 30.8 46.2
170 24.1 21.0 31.4



#10
Acenaphthylene
Concen: 0.00 ng
RT: 14.04 min Scan# 2591
Delta R.T. -0.00 min
Lab File: BE089823.D
Acq: 24 Mar 2015 20:53

Tgt Ion:152 Resp: 1165
Ion Ratio Lower Upper
152 100
151 0.0 3.9 5.9#
153 17.7 11.0 16.4#





#11

Acenaphthene

Concen: 0.01 ng

RT: 14.49 min Scan# 2632

Delta R.T. 0.03 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

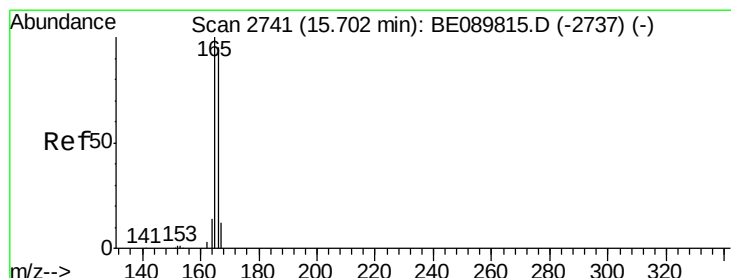
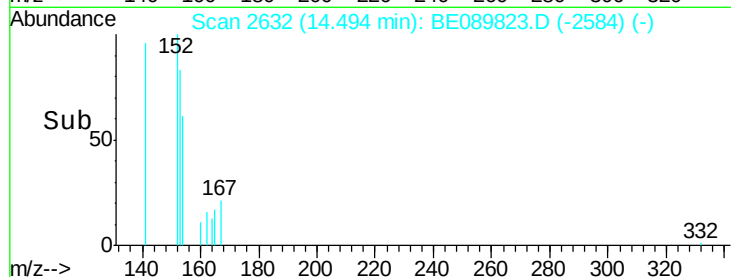
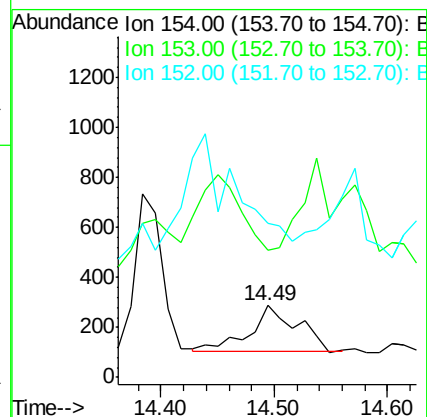
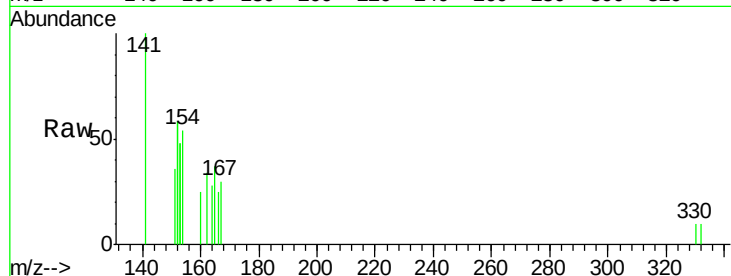
Tgt Ion:154 Resp: 549

Ion Ratio Lower Upper

154 100

153 0.0 401.5 602.3#

152 0.0 198.6 298.0#



#12

Fluorene

Concen: 0.01 ng

RT: 15.71 min Scan# 2743

Delta R.T. -0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

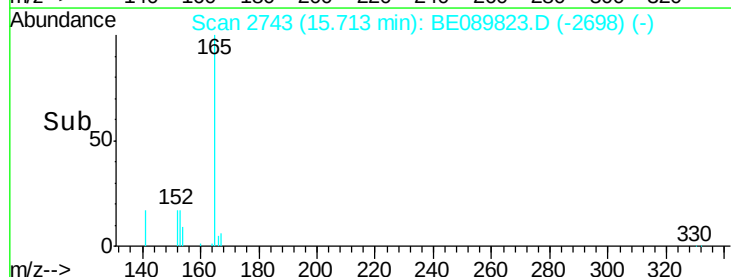
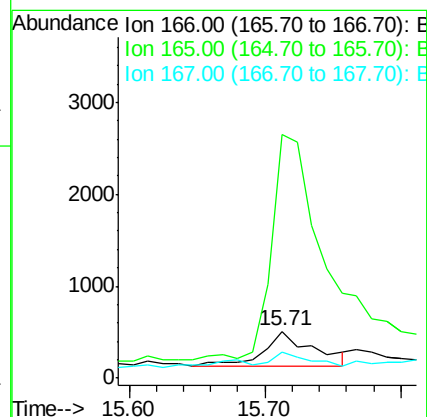
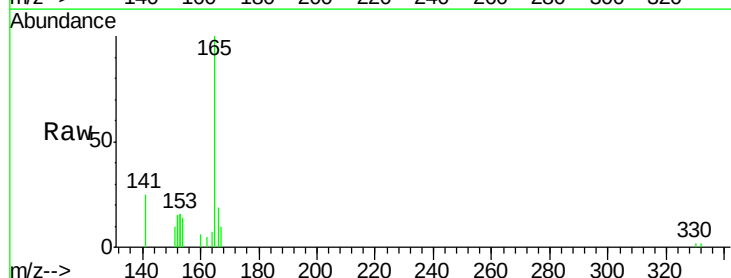
Tgt Ion:166 Resp: 968

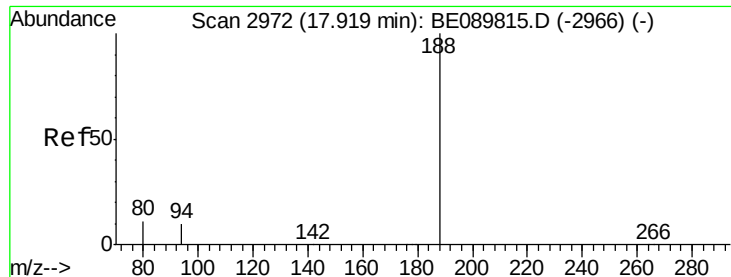
Ion Ratio Lower Upper

166 100

165 970.0 85.1 127.7#

167 30.1 12.2 18.4#

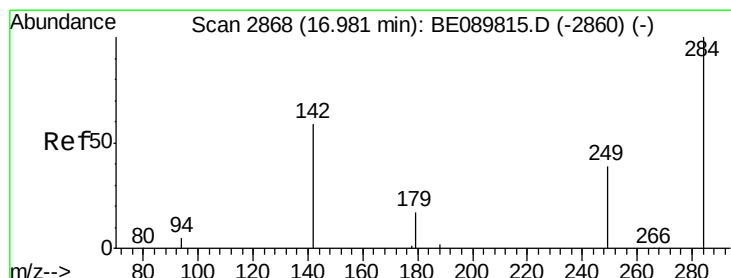
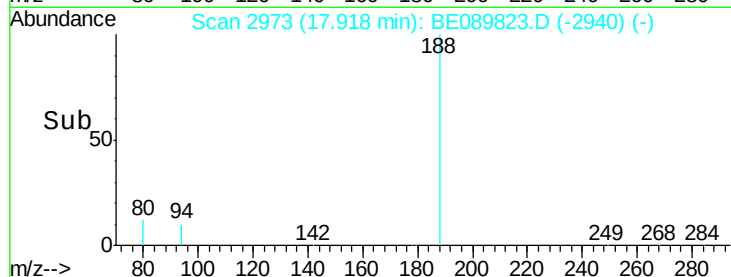
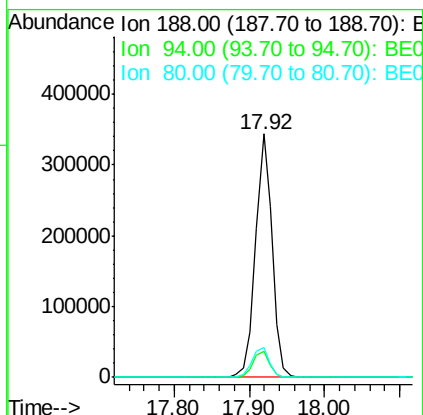
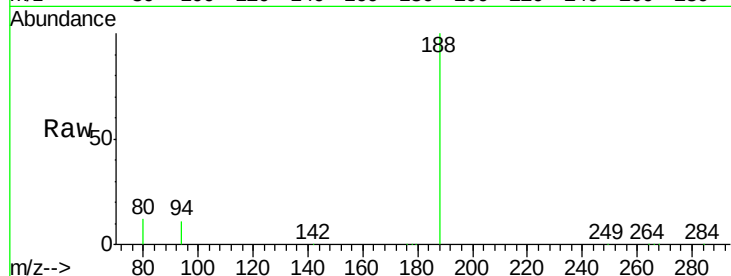




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2973
Delta R.T. -0.00 min
Lab File: BE089823.D
Acq: 24 Mar 2015 20:53

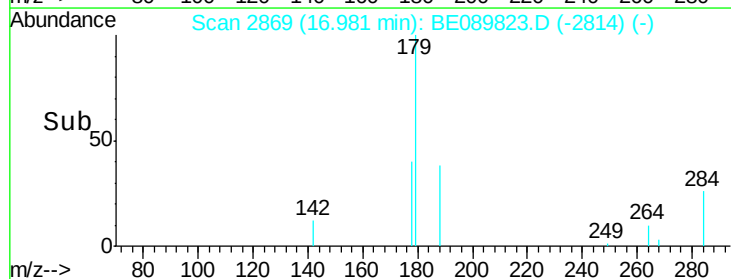
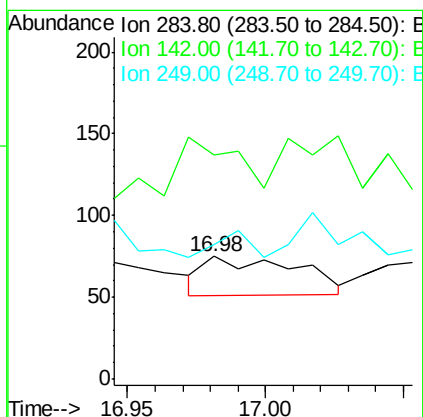
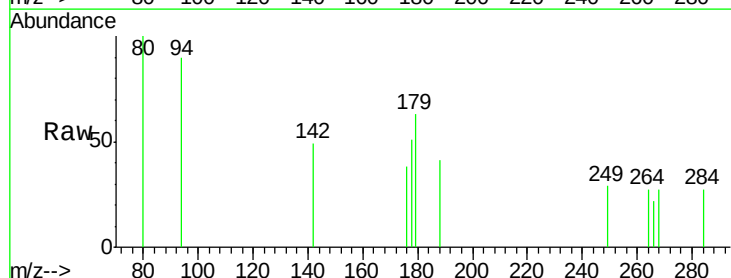
Instrument :
BNA_E
ClientSampleId :
MW-25V

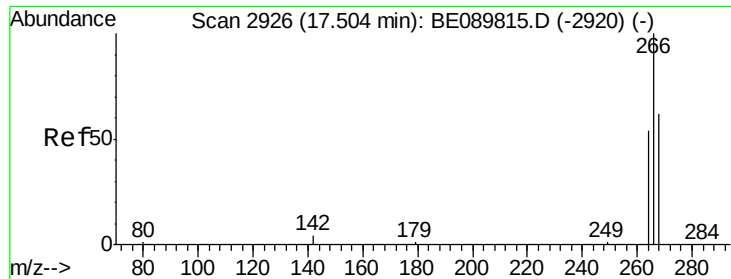
Tgt Ion:188 Resp: 524840
Ion Ratio Lower Upper
188 100
94 10.6 8.5 12.7
80 12.2 10.0 15.0



#14
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.98 min Scan# 2869
Delta R.T. -0.00 min
Lab File: BE089823.D
Acq: 24 Mar 2015 20:53

Tgt Ion:284 Resp: 54
Ion Ratio Lower Upper
284 100
142 92.6 53.3 79.9#
249 31.5 31.1 46.7

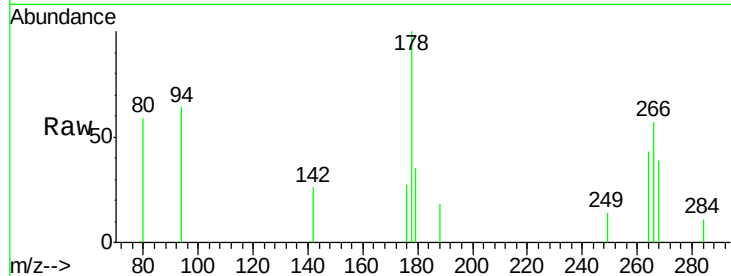




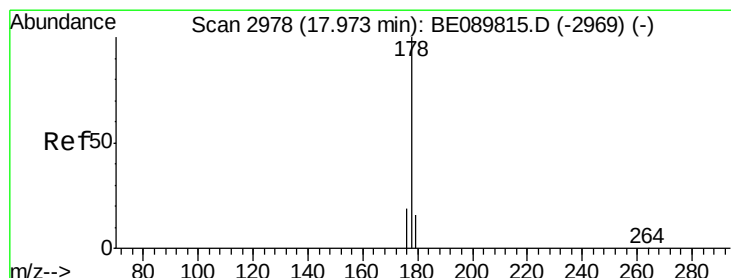
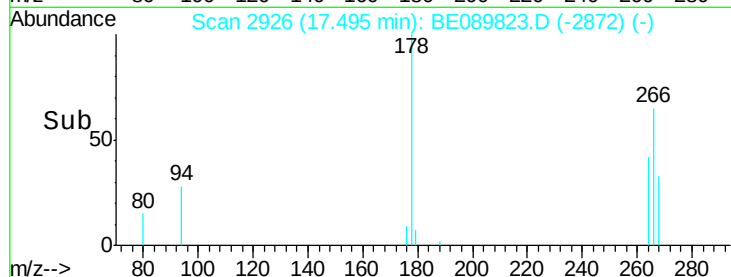
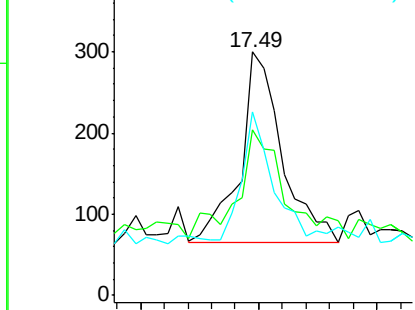
#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 17.49 min Scan# 2926
 Delta R.T. -0.01 min
 Lab File: BE089823.D
 Acq: 24 Mar 2015 20:53

Instrument :
 BNA_E
 ClientSampleId :
 MW-25V

Tgt Ion: 266 Resp: 579
 Ion Ratio Lower Upper
 266 100
 268 68.0 51.6 77.4
 264 75.3 50.2 75.2#

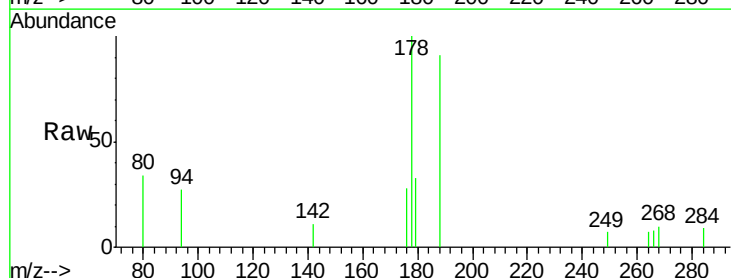


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

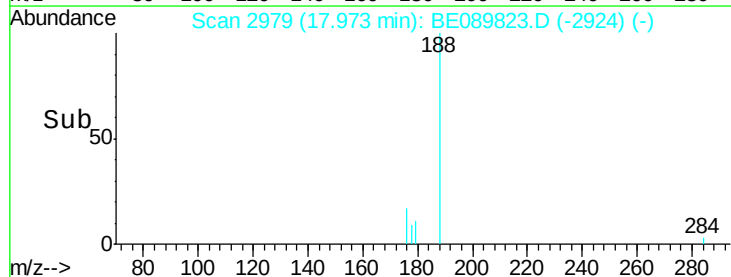
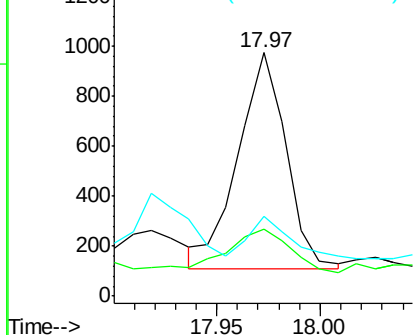


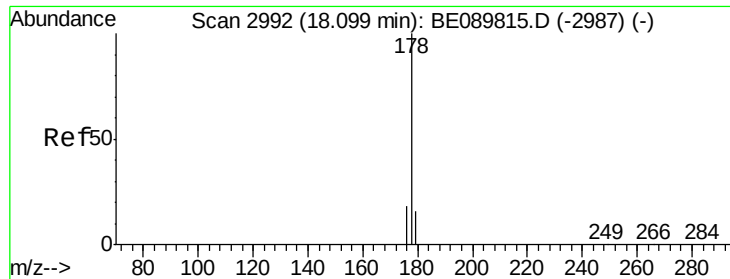
#16
 Phenanthrene
 Concen: 0.01 ng
 RT: 17.97 min Scan# 2979
 Delta R.T. -0.00 min
 Lab File: BE089823.D
 Acq: 24 Mar 2015 20:53

Tgt Ion: 178 Resp: 1385
 Ion Ratio Lower Upper
 178 100
 176 26.9 15.4 23.0#
 179 16.6 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





#17

Anthracene

Concen: 0.00 ng

RT: 18.10 min Scan# 2993

Delta R.T. -0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

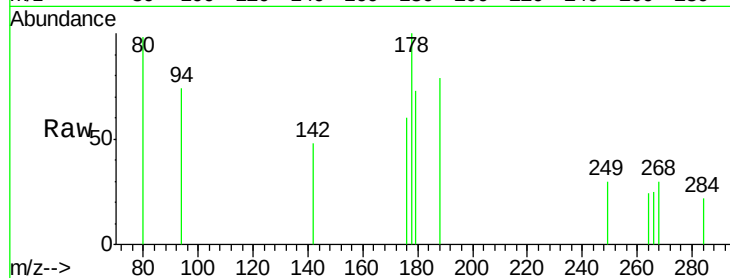
Tgt Ion:178 Resp: 403

Ion Ratio Lower Upper

178 100

176 39.0 14.6 21.8#

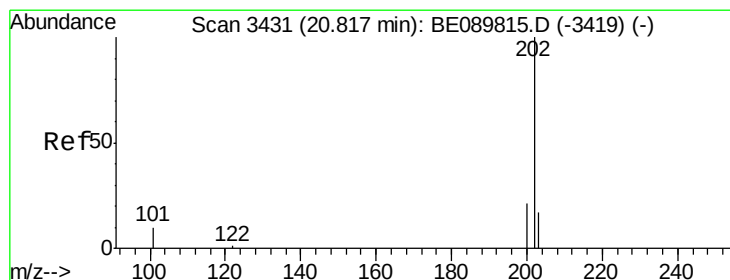
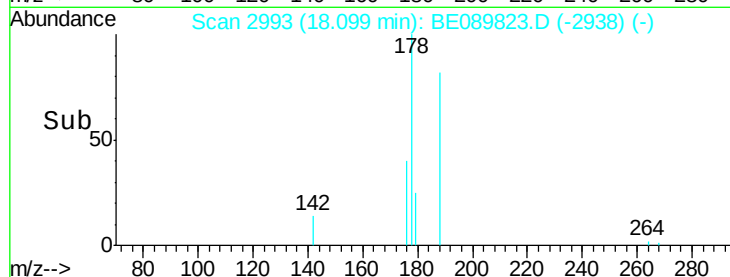
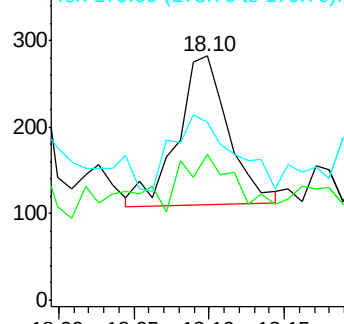
179 61.8 12.1 18.1#



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



#18

Fluoranthene

Concen: 0.02 ng

RT: 20.82 min Scan# 3433

Delta R.T. -0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

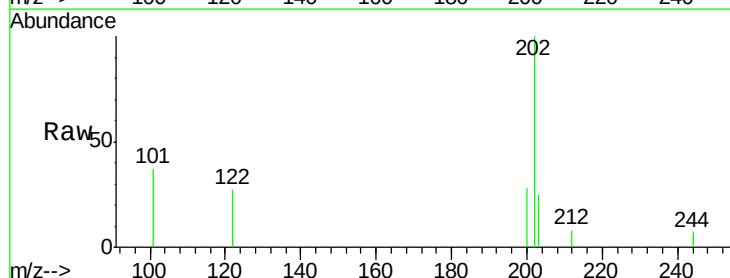
Tgt Ion:202 Resp: 1563

Ion Ratio Lower Upper

202 100

101 26.6 8.2 12.2#

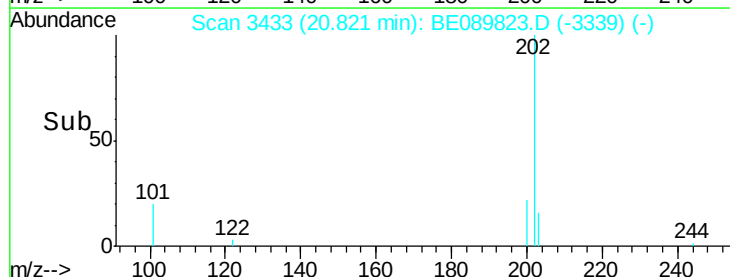
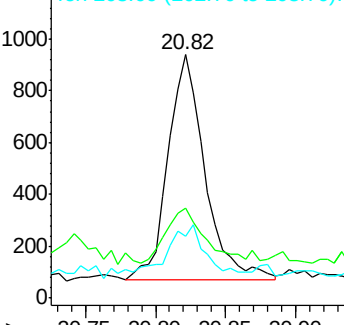
203 27.8 14.2 21.4#

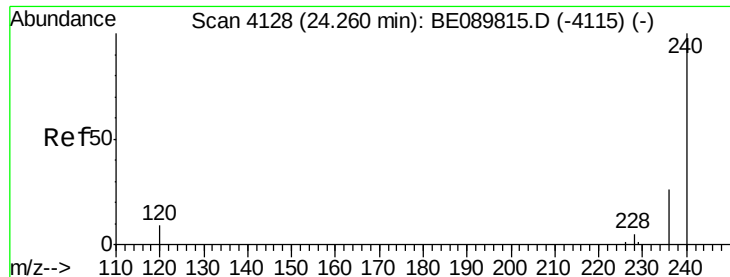


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.26 min Scan# 4129

Delta R.T. -0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

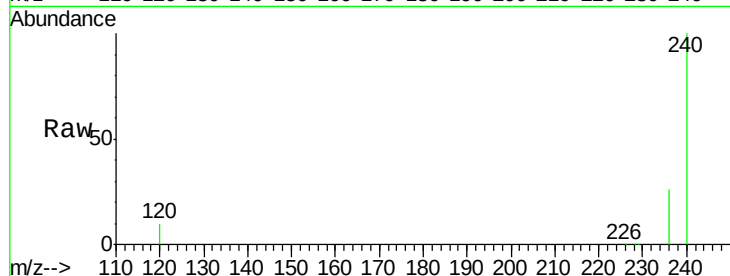
Tgt Ion:240 Resp: 502426

Ion Ratio Lower Upper

240 100

120 10.4 7.5 11.3

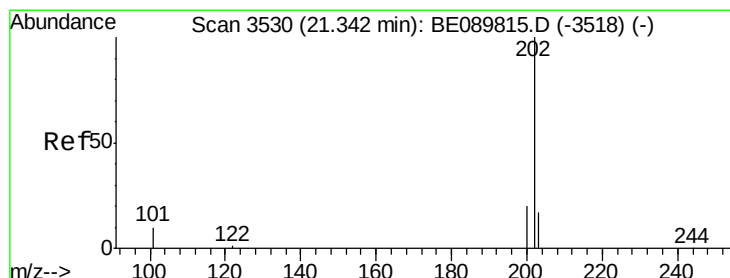
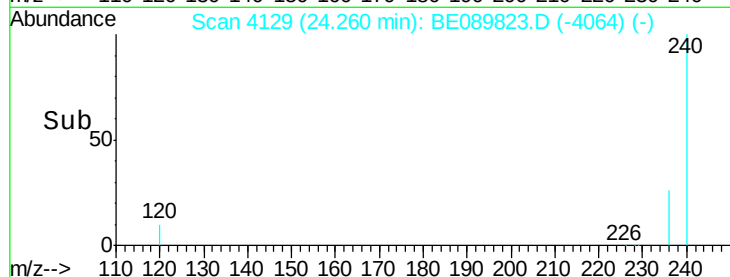
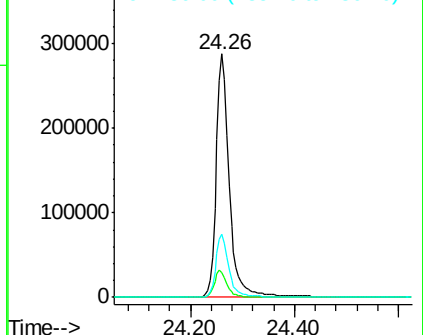
236 25.9 20.5 30.7



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: 0.01 ng

RT: 21.34 min Scan# 3531

Delta R.T. -0.01 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

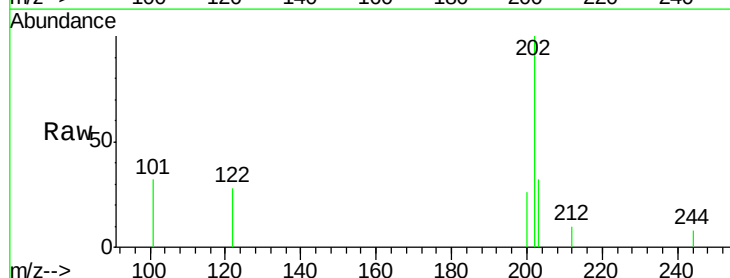
Tgt Ion:202 Resp: 1335

Ion Ratio Lower Upper

202 100

200 28.1 15.9 23.9#

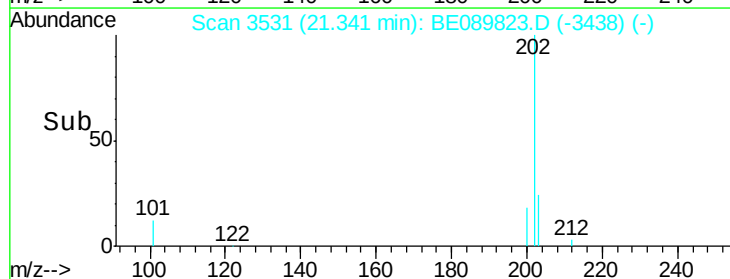
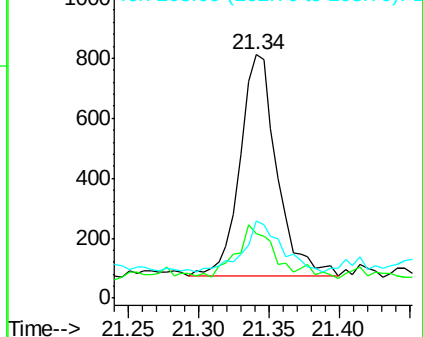
203 23.9 13.6 20.4#

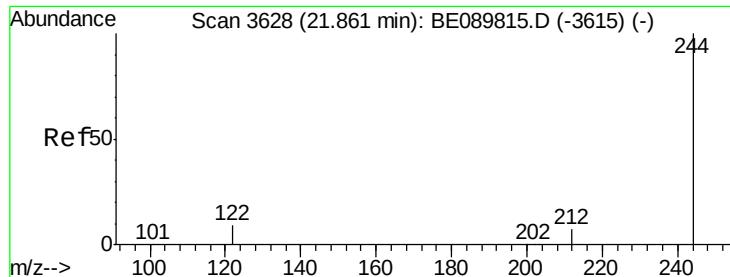


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

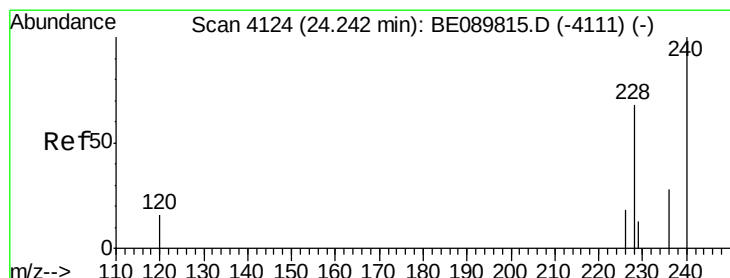
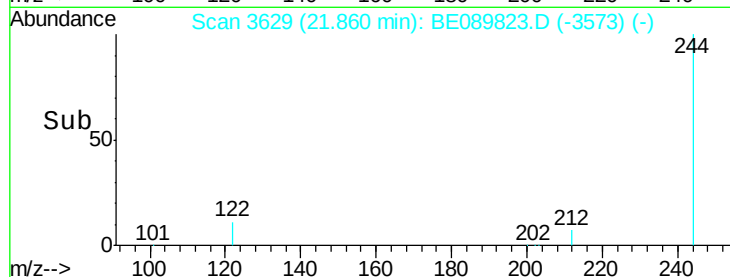
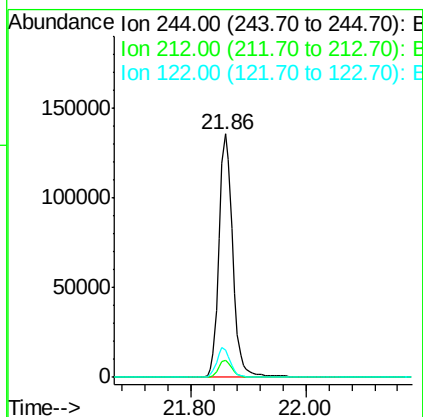
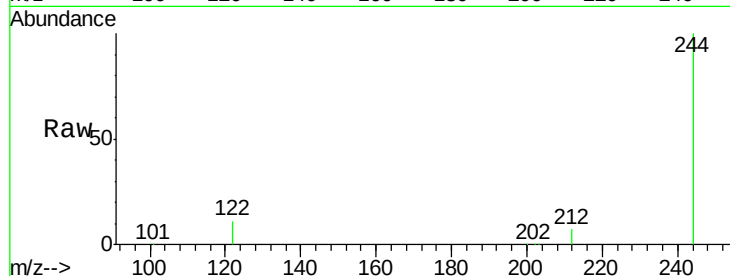




#21
 Terphenyl-d14
 Concen: 3.04 ng
 RT: 21.86 min Scan# 3629
 Delta R.T. -0.00 min
 Lab File: BE089823.D
 Acq: 24 Mar 2015 20:53

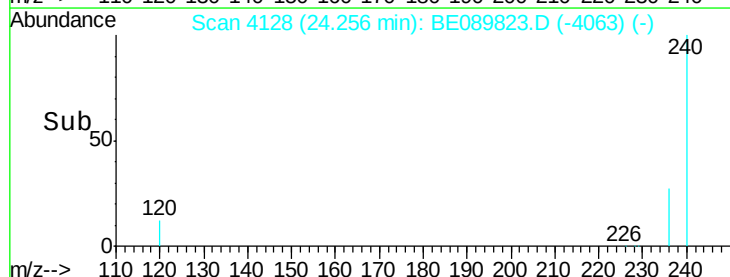
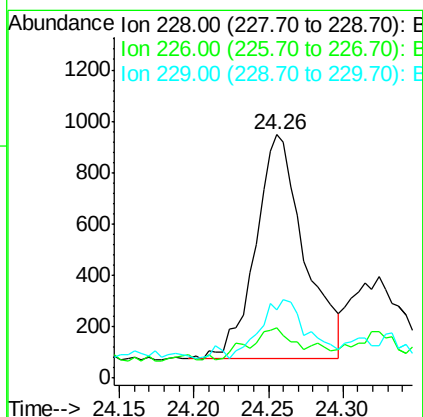
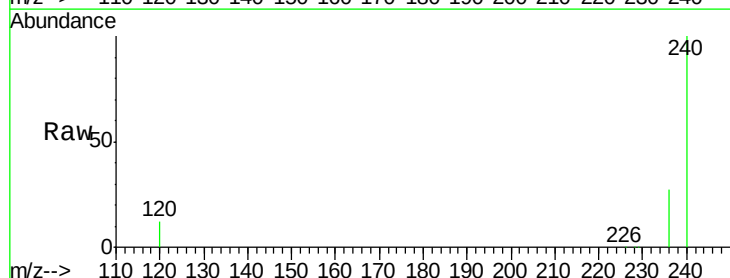
Instrument :
 BNA_E
 ClientSampleId :
 MW-25V

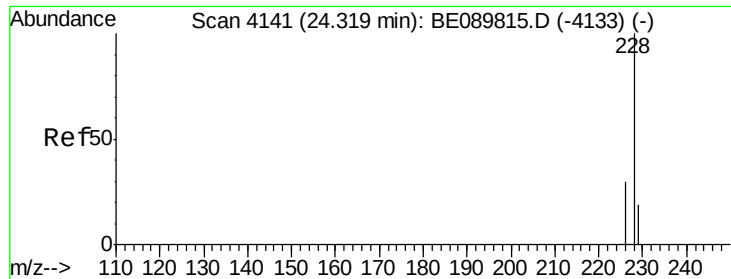
Tgt Ion: 244 Resp: 225188
 Ion Ratio Lower Upper
 244 100
 212 7.2 7.3 10.9#
 122 11.1 10.5 15.7



#22
 Benzo(a)anthracene
 Concen: 0.02 ng
 RT: 24.26 min Scan# 4128
 Delta R.T. 0.01 min
 Lab File: BE089823.D
 Acq: 24 Mar 2015 20:53

Tgt Ion: 228 Resp: 1994
 Ion Ratio Lower Upper
 228 100
 226 20.9 19.8 29.8
 229 28.1 16.3 24.5#





#23

Chrysene

Concen: 0.01 ng

RT: 24.32 min Scan# 4143

Delta R.T. 0.01 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

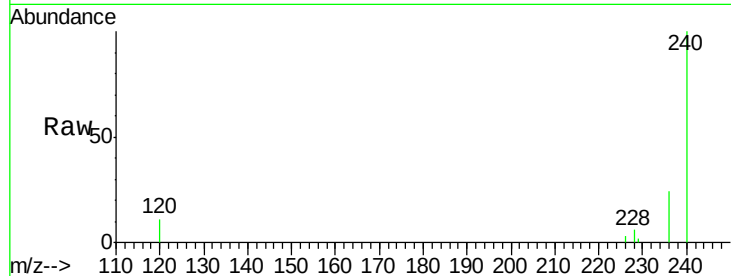
Tgt Ion:228 Resp: 777

Ion Ratio Lower Upper

228 100

226 45.5 23.0 34.4#

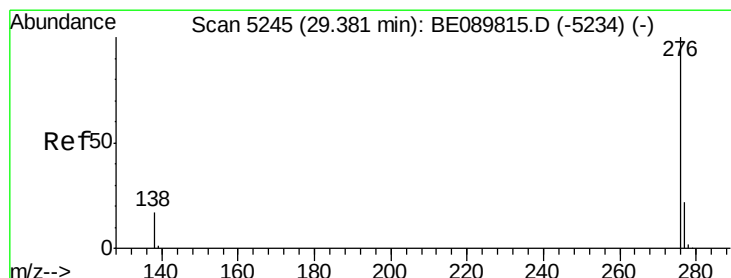
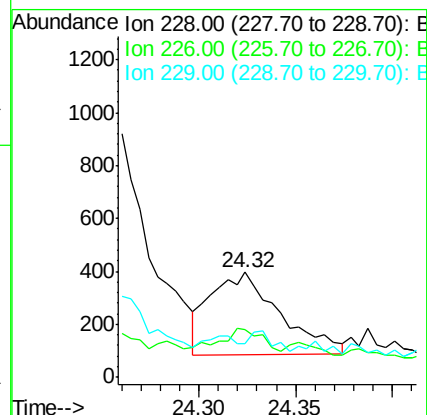
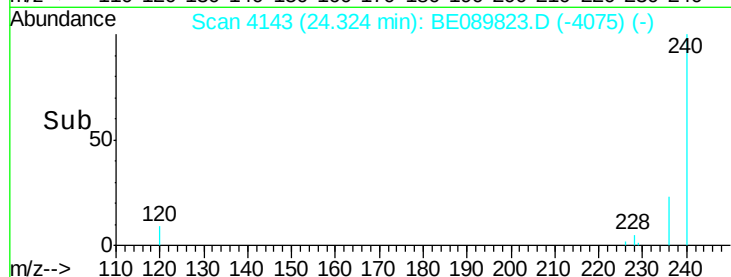
229 32.1 15.8 23.6#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.42 ng

RT: 29.39 min Scan# 5249

Delta R.T. 0.01 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

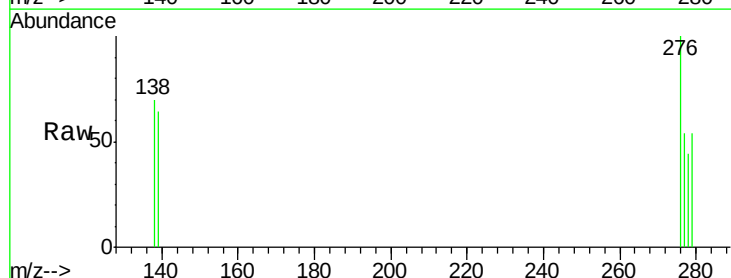
Tgt Ion:276 Resp: 224

Ion Ratio Lower Upper

276 100

138 17.4 4.3 6.5#

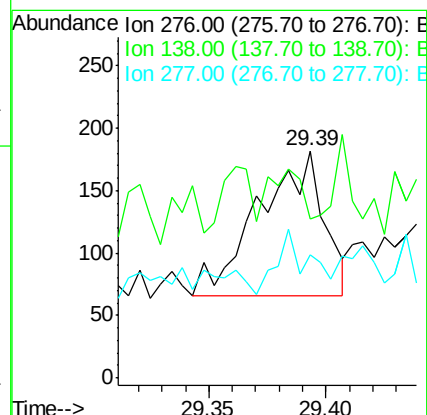
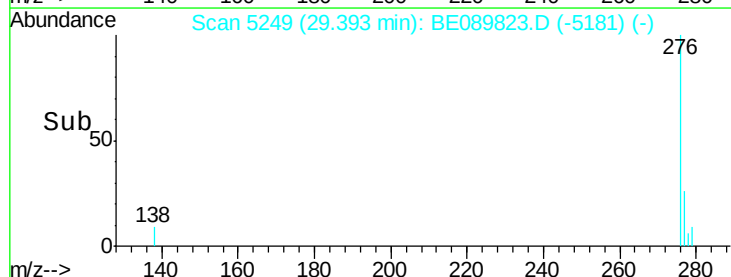
277 21.9 9.0 13.4#

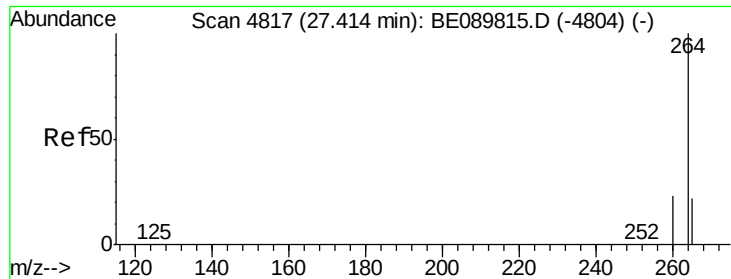


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

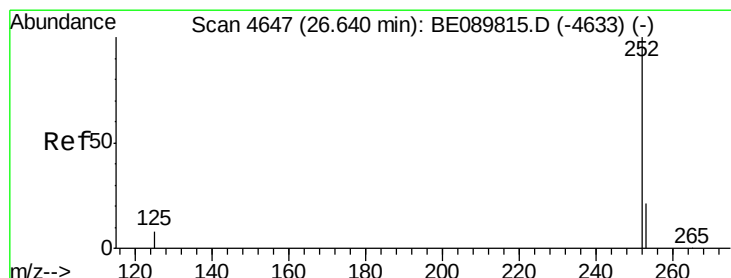
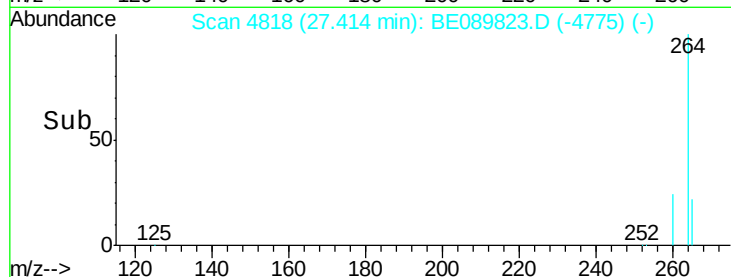
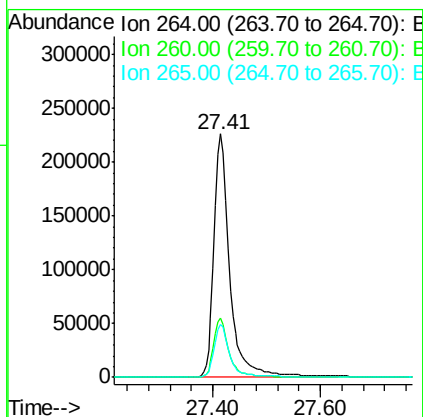
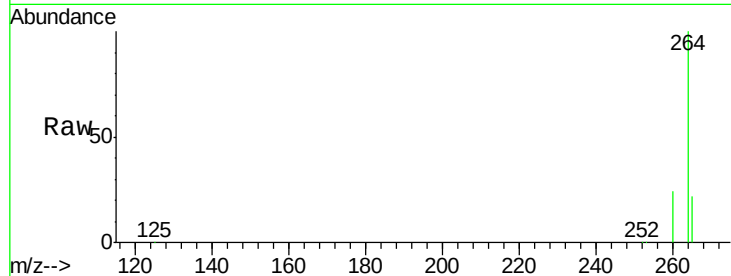




#25
Perylene-d12
 Concen: 5.00 ng
 RT: 27.41 min Scan# 4818
 Delta R.T. -0.00 min
 Lab File: BE089823.D
 Acq: 24 Mar 2015 20:53

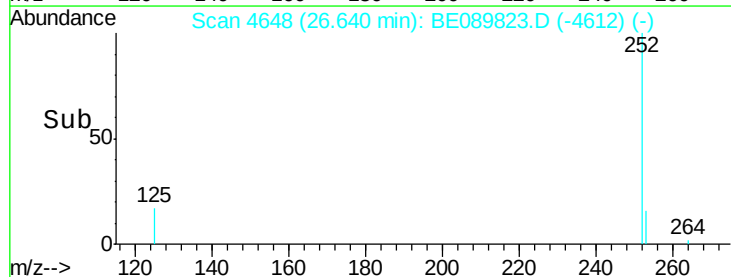
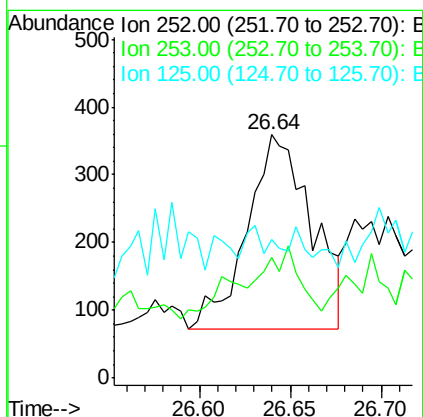
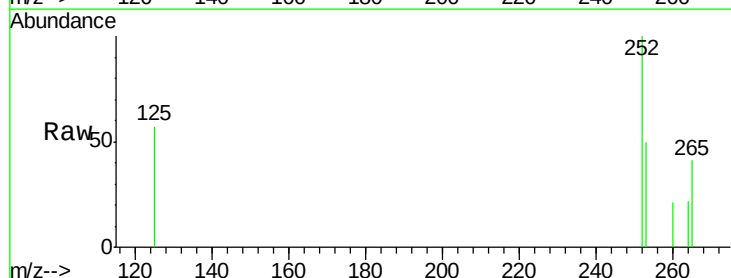
Instrument :
 BNA_E
 ClientSampleId :
 MW-25V

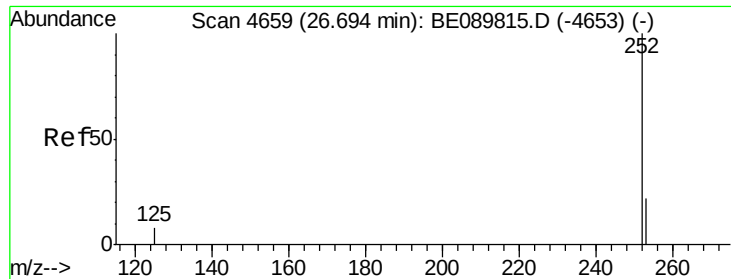
Tgt Ion: 264 Resp: 460726
 Ion Ratio Lower Upper
 264 100
 260 24.2 18.2 27.2
 265 21.7 17.3 25.9



#26
Benzo(b)fluoranthene
 Concen: 0.32 ng
 RT: 26.64 min Scan# 4648
 Delta R.T. 0.00 min
 Lab File: BE089823.D
 Acq: 24 Mar 2015 20:53

Tgt Ion: 252 Resp: 714
 Ion Ratio Lower Upper
 252 100
 253 49.6 17.8 26.6#
 125 56.8 8.7 13.1#





#27

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 26.69 min Scan# 4658

Delta R.T. -0.01 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

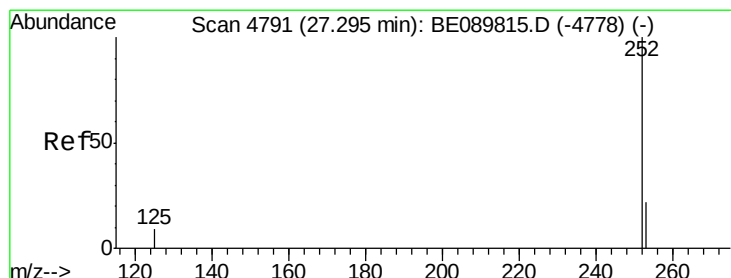
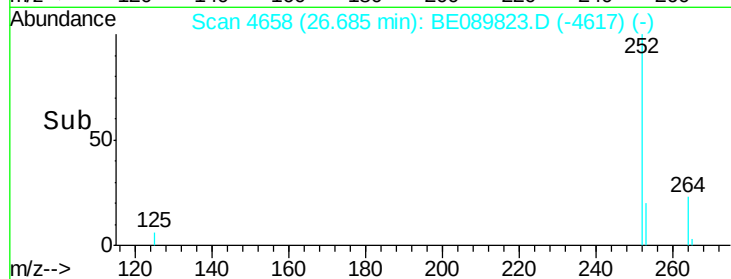
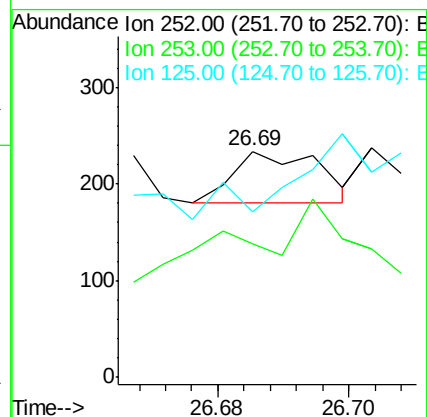
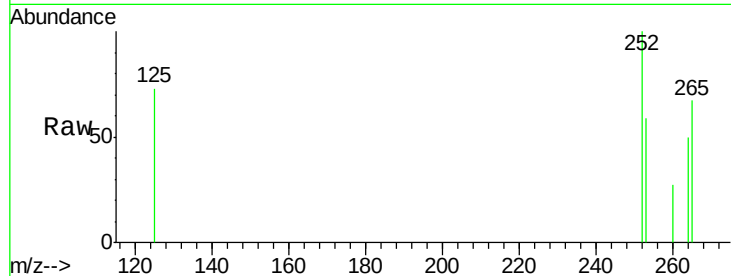
Tgt Ion: 252 Resp: 49

Ion Ratio Lower Upper

252 100

253 59.0 18.6 28.0#

125 73.1 10.8 16.2#



#28

Benzo(a)pyrene

Concen: 0.30 ng

RT: 27.28 min Scan# 4789

Delta R.T. -0.02 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

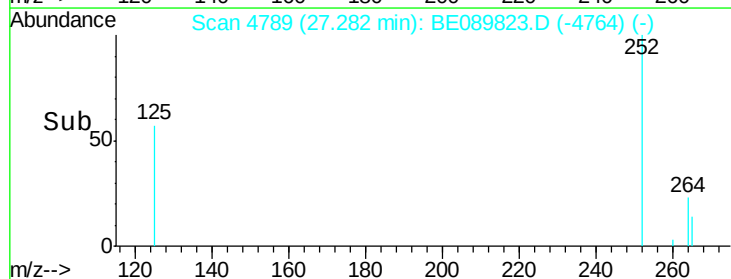
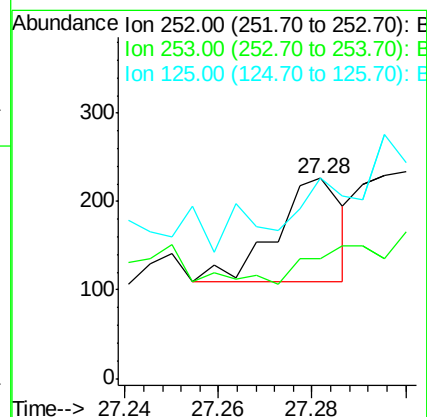
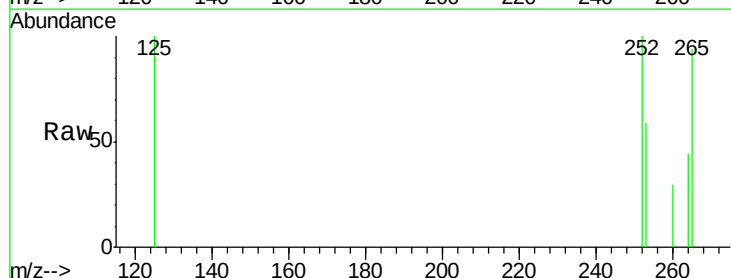
Tgt Ion: 252 Resp: 116

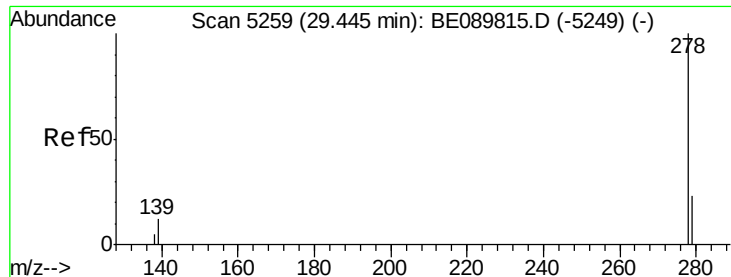
Ion Ratio Lower Upper

252 100

253 59.7 21.0 31.4#

125 100.4 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.42 ng

RT: 29.43 min Scan# 5257

Delta R.T. -0.01 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

MW-25V

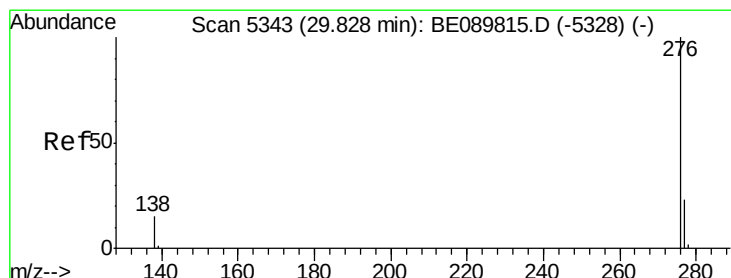
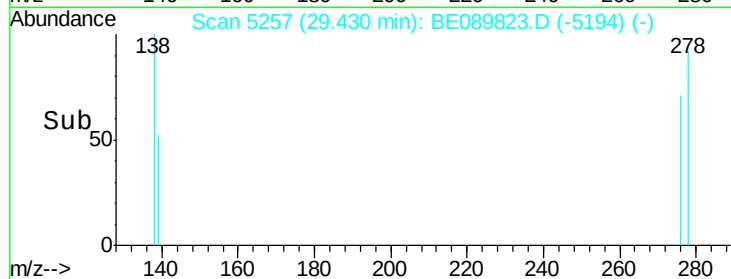
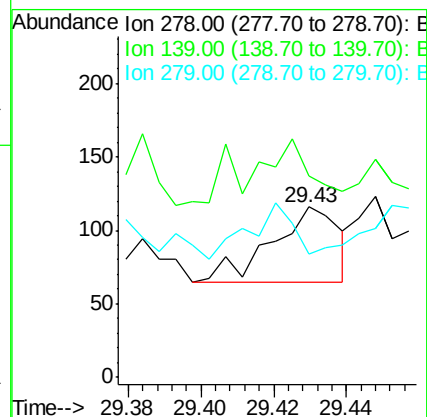
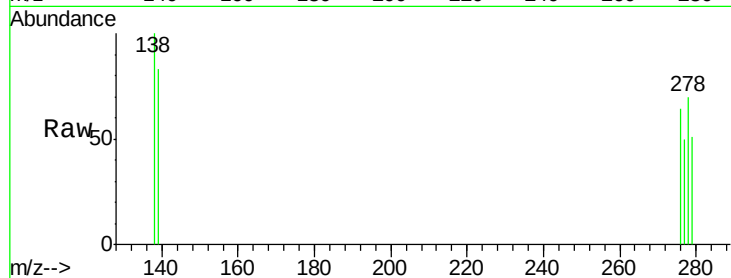
Tgt Ion: 278 Resp: 65

Ion Ratio Lower Upper

278 100

139 118.1 20.0 30.0#

279 72.4 28.9 43.3#



#30

Benzo(g,h,i)perylene

Concen: 0.26 ng

RT: 29.82 min Scan# 5343

Delta R.T. 0.00 min

Lab File: BE089823.D

Acq: 24 Mar 2015 20:53

Tgt Ion: 276 Resp: 338

Ion Ratio Lower Upper

276 100

277 50.9 19.2 28.8#

138 71.5 22.9 34.3#

