

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089828.D
 Acq On : 25 Mar 2015 2:15
 Operator : TP/JJ
 Sample : G1575-04
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RW-10V

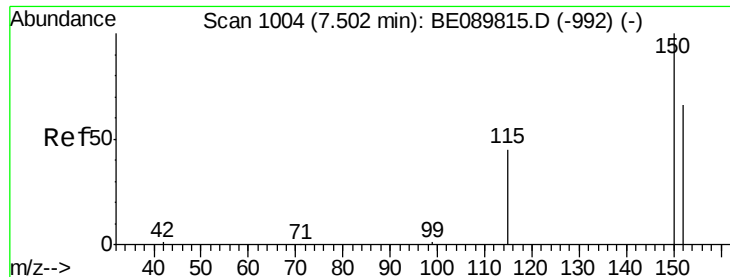
Quant Time: Mar 25 03:21:45 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 24 18:03:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	223513	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	889425	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	396863	5.00	ng	0.00
13) Phenanthrene-d10	17.92	188	695798	5.00	ng	0.00
19) Chrysene-d12	24.26	240	656837	5.00	ng	0.00
25) Perylene-d12	27.41	264	605516	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	527506	8.14	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	827986	8.92	ng	0.00
21) Terphenyl-d14	21.86	244	925211	9.55	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.45	88	3048	0.10	ng	# 1
3) n-Nitrosodimethylamine	3.09	42	2203	0.05	ng	# 1
6) Naphthalene	10.31	128	3456	0.02	ng	# 42
7) 2-Methylnaphthalene	11.93	142	6882	0.07	ng	# 80
10) Acenaphthylene	14.04	152	5632	0.01	ng	# 64
11) Acenaphthene	14.47	154	359	0.00	ng	# 1
12) Fluorene	15.71	166	1224	0.01	ng	# 77
14) Hexachlorobenzene	16.98	284	7455	0.32	ng	98
15) Pentachlorophenol	17.50	266	457	Below Cal		95
16) Phenanthrene	17.97	178	12049	0.08	ng	99
17) Anthracene	17.97	178	12049	0.09	ng	98
18) Fluoranthene	20.82	202	33968	0.25	ng	99
20) Pyrene	21.34	202	29200	0.18	ng	# 96
22) Benzo(a)anthracene	24.25	228	12417	0.10	ng	# 93
23) Chrysene	24.32	228	22373	0.17	ng	97
24) Indeno(1,2,3-cd)pyrene	29.38	276	8421	0.48	ng	# 91
26) Benzo(b)fluoranthene	26.64	252	21391	0.47	ng	# 88
27) Benzo(k)fluoranthene	26.64	252	21364	0.17	ng	# 92
28) Benzo(a)pyrene	27.30	252	9327	0.37	ng	# 81
29) Dibenzo(a,h)anthracene	29.43	278	901	0.42	ng	# 24
30) Benzo(g,h,i)perylene	29.83	276	13079	0.35	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.50 min Scan# 1004

Delta R.T. 0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampled :

RW-10V

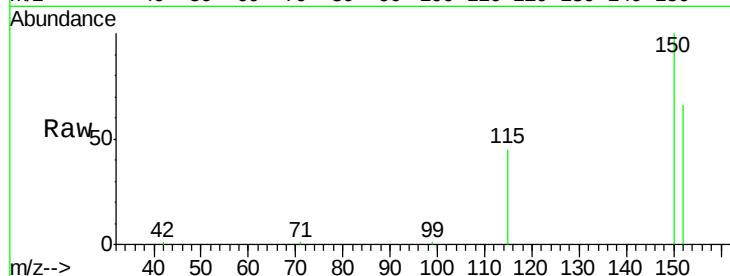
Tgt Ion:152 Resp: 223513

Ion Ratio Lower Upper

152 100

150 151.9 125.5 188.3

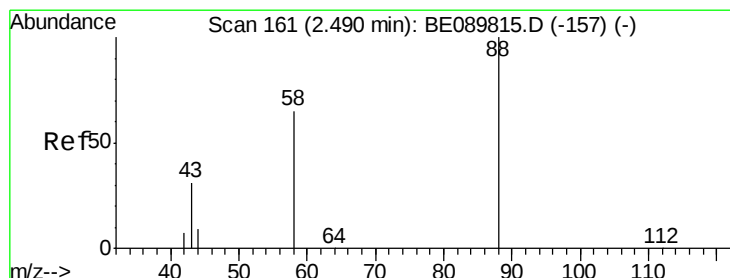
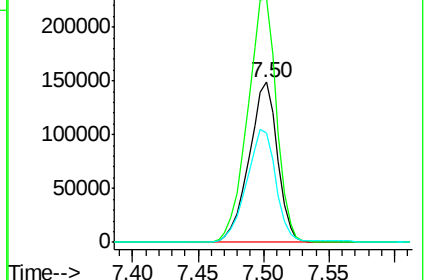
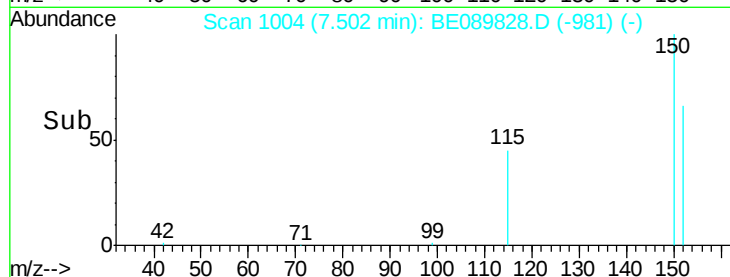
115 68.5 58.0 87.0



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: 0.10 ng

RT: 2.45 min Scan# 155

Delta R.T. -0.07 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

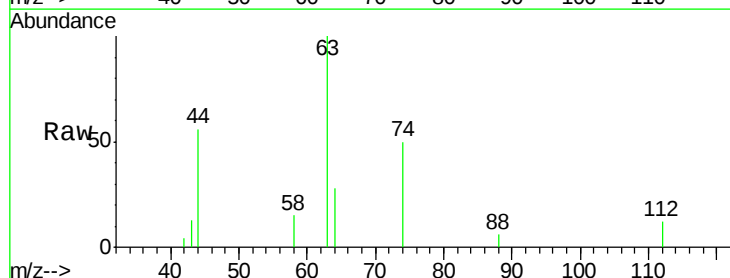
Tgt Ion: 88 Resp: 3048

Ion Ratio Lower Upper

88 100

58 227.5 48.6 72.8#

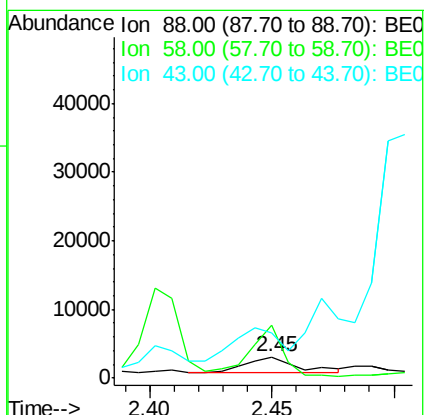
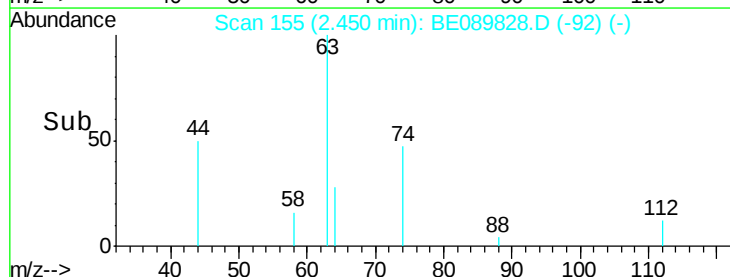
43 0.0 28.6 43.0#

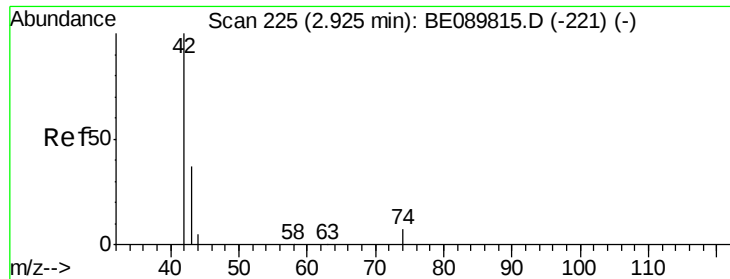


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.09 min Scan# 250

Delta R.T. 0.10 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

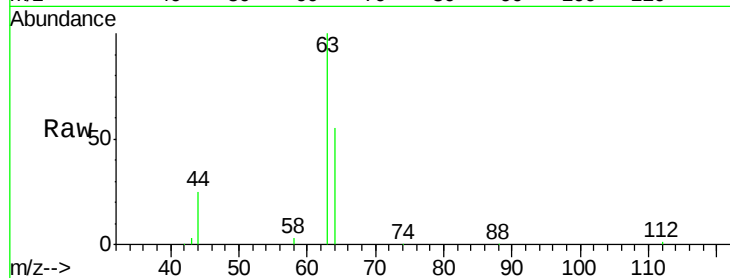
Tgt Ion: 42 Resp: 2203

Ion Ratio Lower Upper

42 100

74 134.5 68.7 103.1#

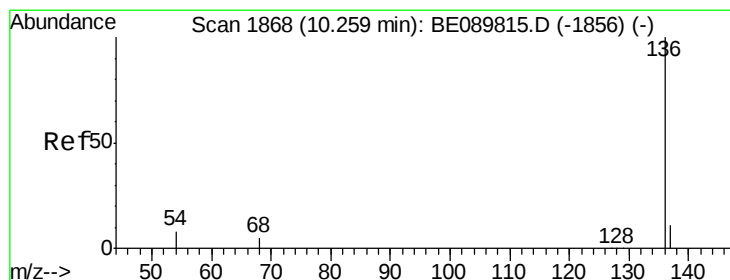
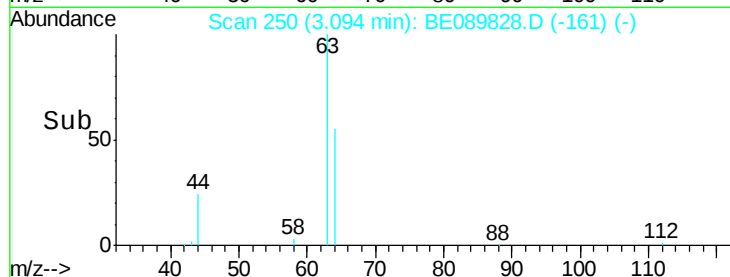
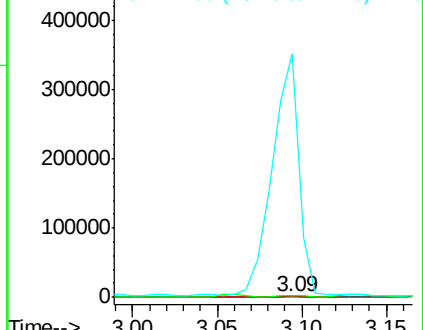
44 17083.3 6.2 9.4#



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: BE089828.D

Acq: 25 Mar 2015 2:15

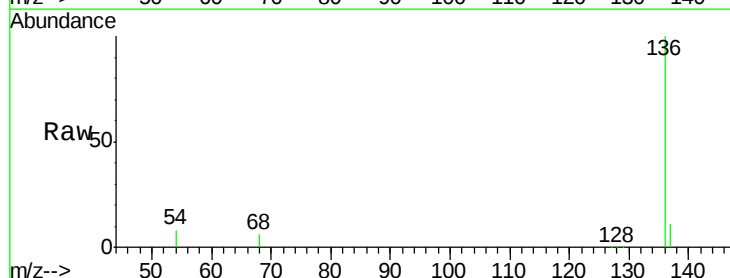
Tgt Ion: 136 Resp: 889425

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

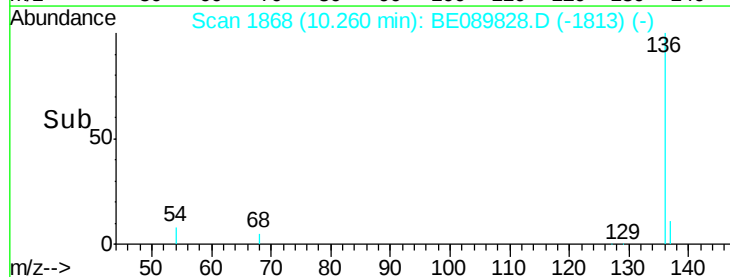
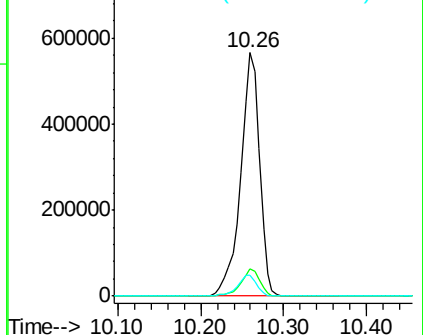
54 8.4 7.0 10.4

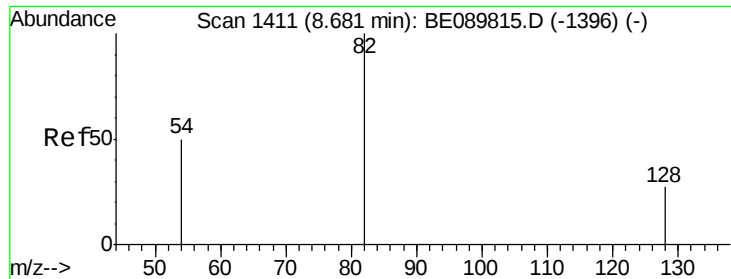


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 8.14 ng

RT: 8.68 min Scan# 1410

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

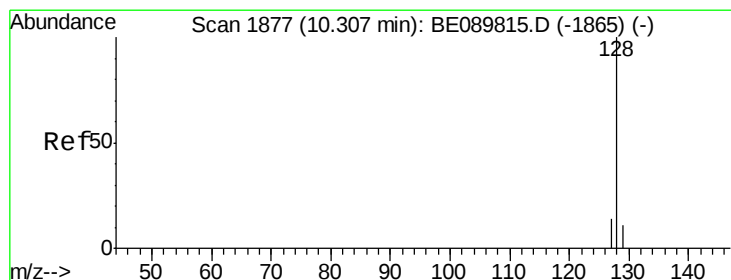
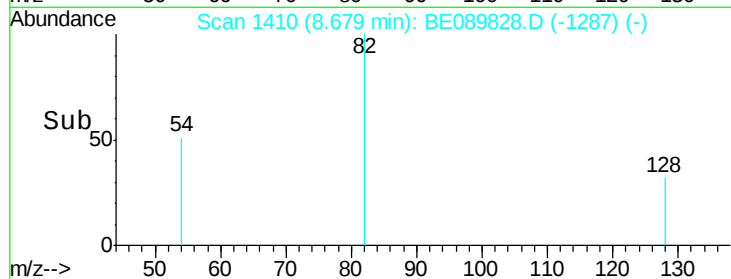
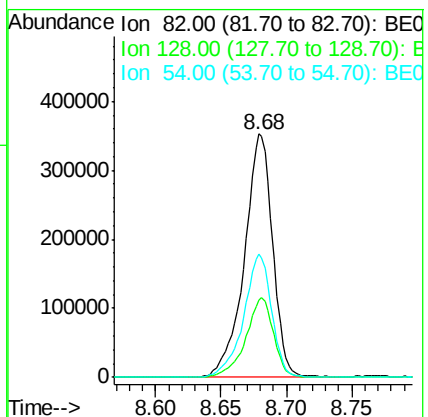
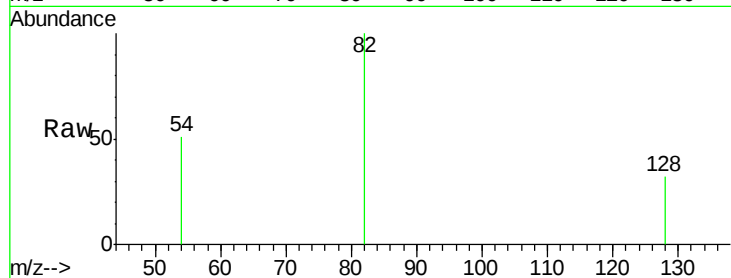
Tgt Ion: 82 Resp: 527506

Ion Ratio Lower Upper

82 100

128 31.8 24.6 37.0

54 50.8 43.0 64.6



#6

Naphthalene

Concen: 0.02 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

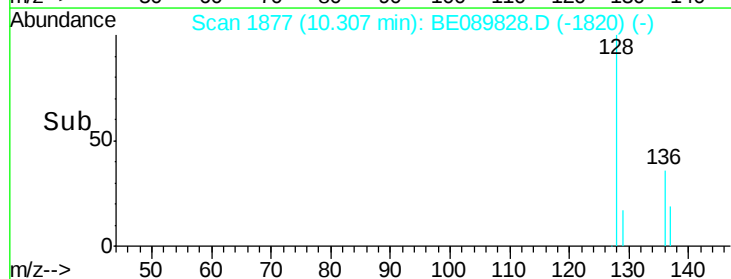
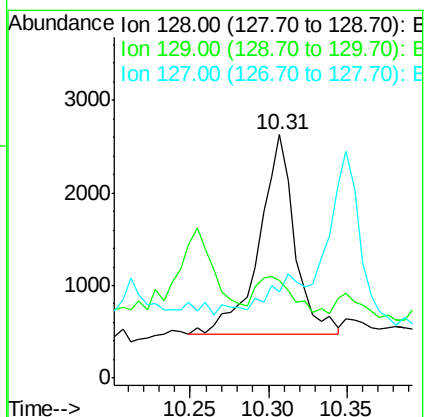
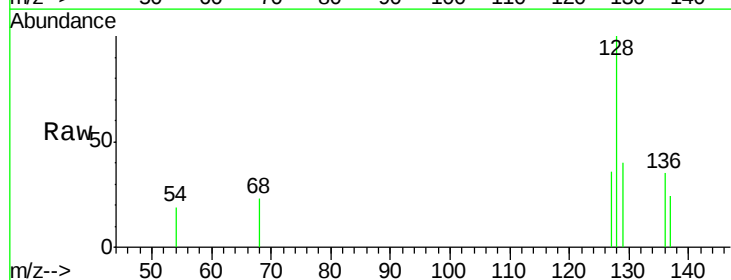
Tgt Ion: 128 Resp: 3456

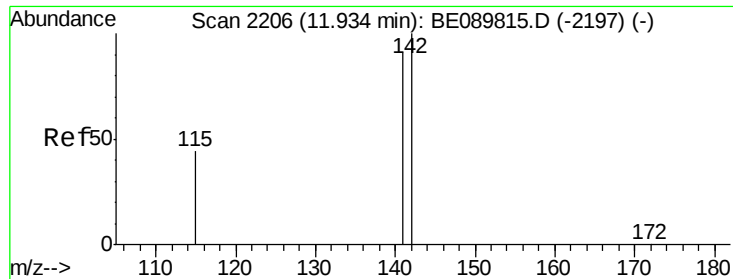
Ion Ratio Lower Upper

128 100

129 40.2 10.0 15.0#

127 35.6 12.5 18.7#





#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

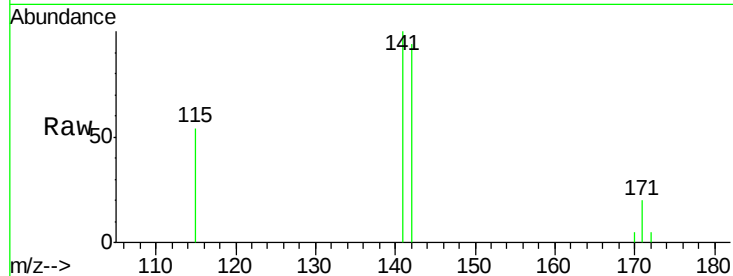
Tgt Ion:142 Resp: 6882

Ion Ratio Lower Upper

142 100

141 106.8 72.8 109.2

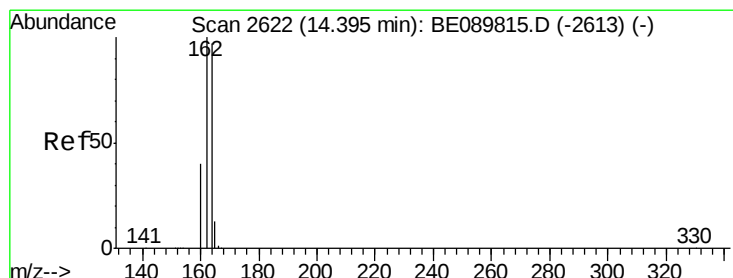
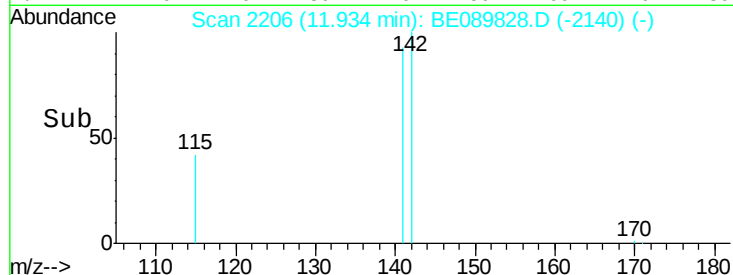
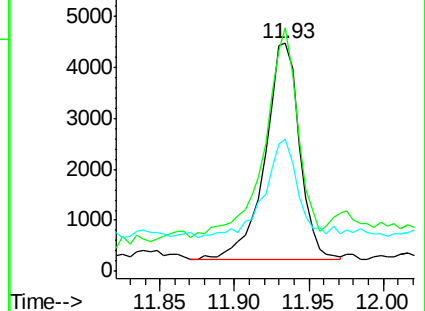
115 57.8 32.9 49.3#



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

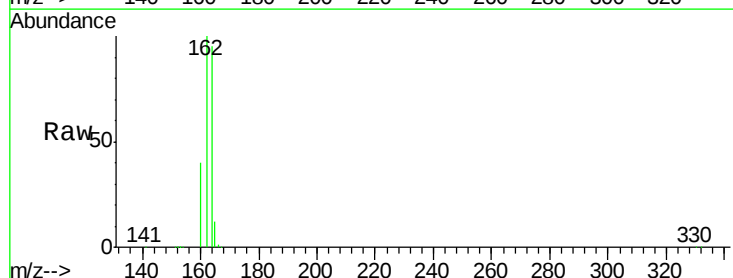
Tgt Ion:164 Resp: 396863

Ion Ratio Lower Upper

164 100

162 104.8 87.6 131.4

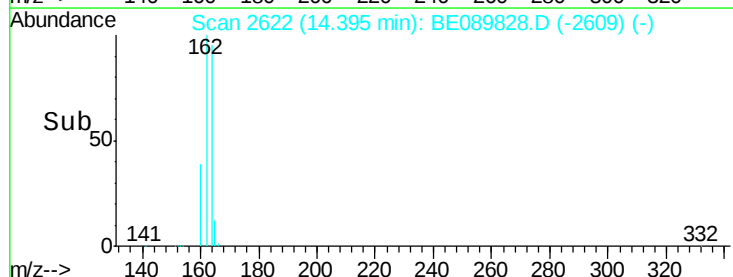
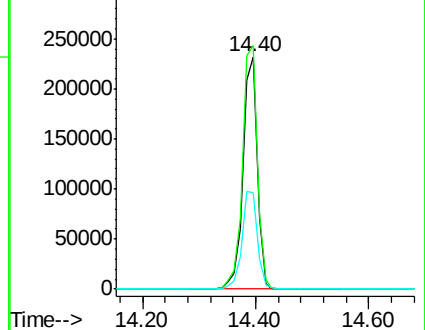
160 41.4 36.7 55.1

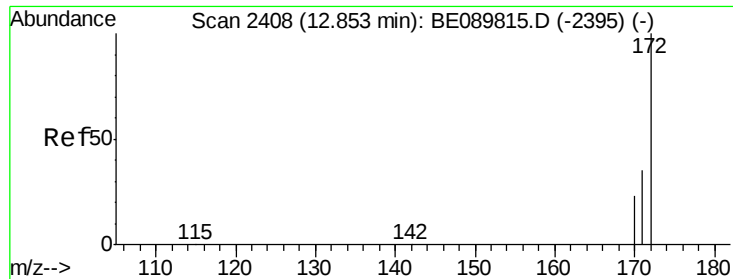


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.92 ng

RT: 12.85 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

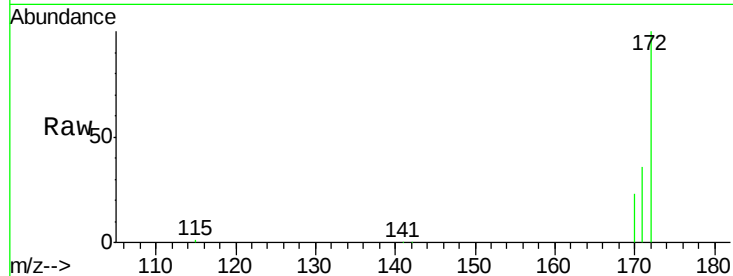
Tgt Ion:172 Resp: 827986

Ion Ratio Lower Upper

172 100

171 36.1 30.8 46.2

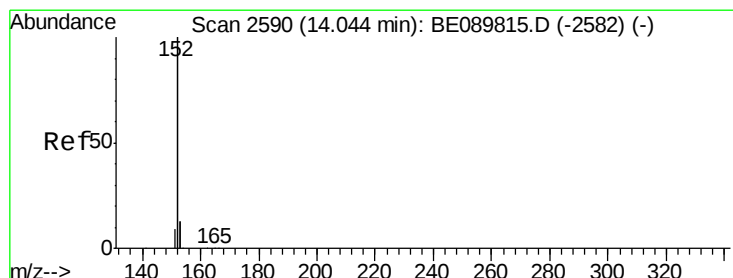
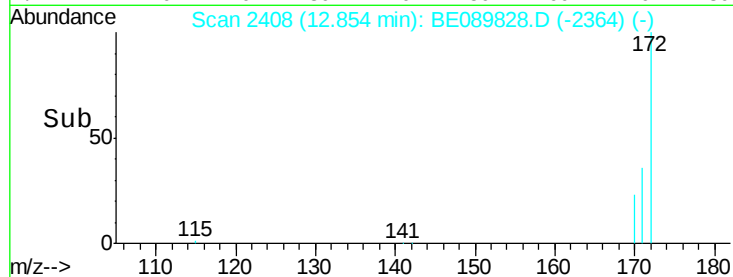
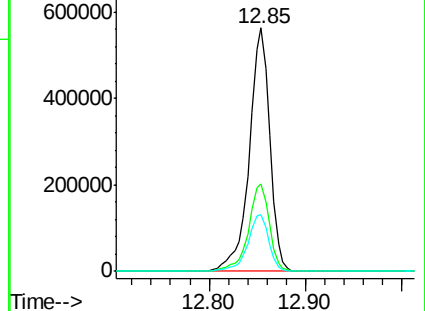
170 23.2 21.0 31.4



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



#10

Acenaphthylene

Concen: 0.01 ng

RT: 14.04 min Scan# 2590

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

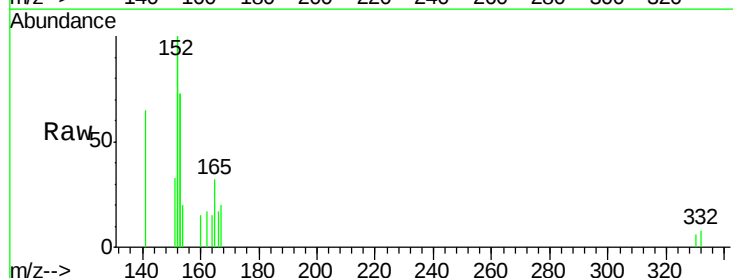
Tgt Ion:152 Resp: 5632

Ion Ratio Lower Upper

152 100

151 18.3 3.9 5.9#

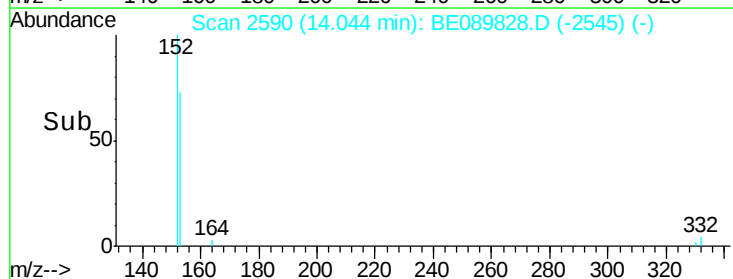
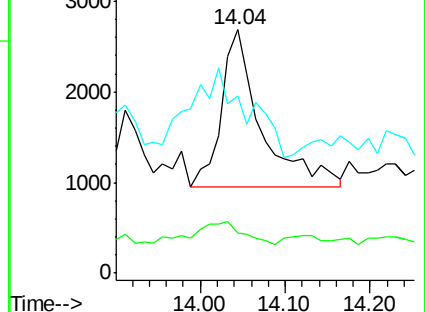
153 0.0 11.0 16.4#

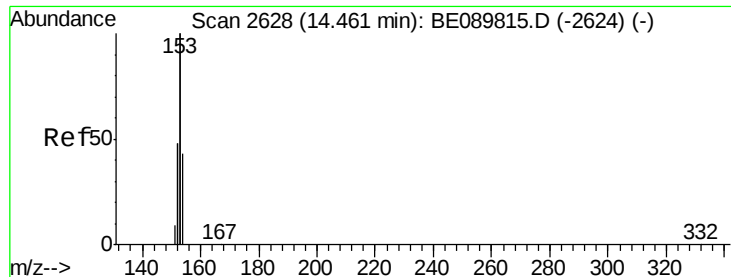


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.00 ng

RT: 14.47 min Scan# 2629

Delta R.T. 0.01 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

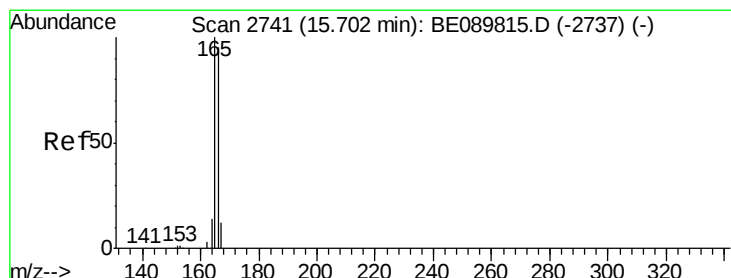
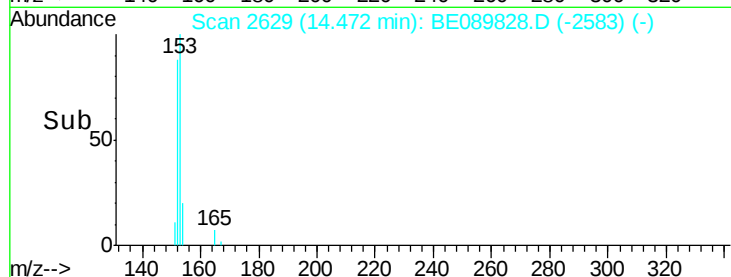
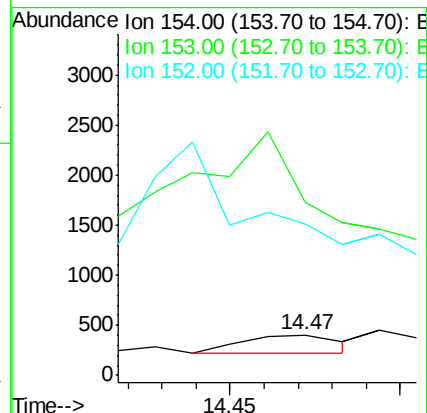
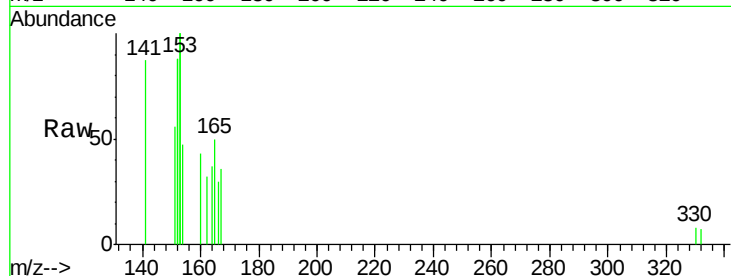
Tgt Ion:154 Resp: 359

Ion Ratio Lower Upper

154 100

153 1081.6 401.5 602.3#

152 0.0 198.6 298.0#



#12

Fluorene

Concen: 0.01 ng

RT: 15.71 min Scan# 2742

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

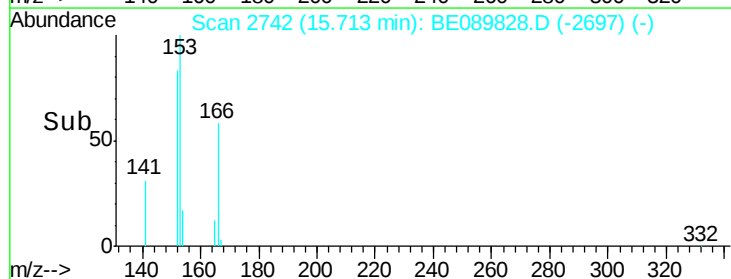
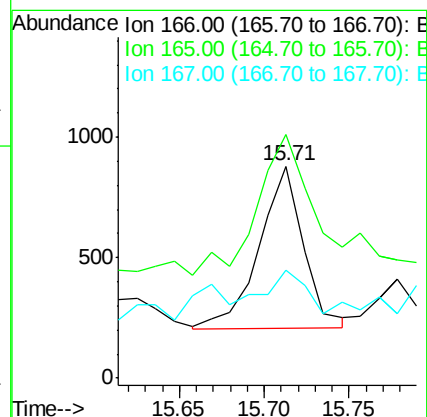
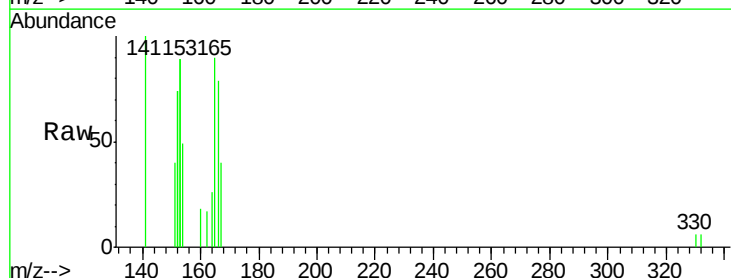
Tgt Ion:166 Resp: 1224

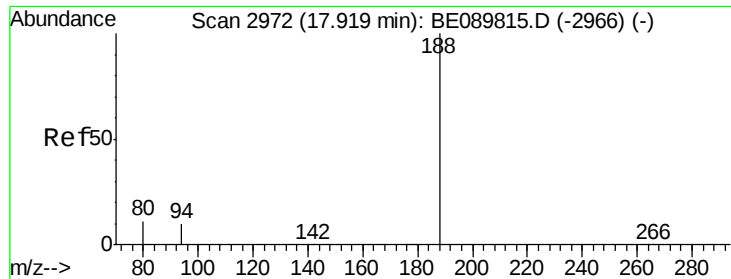
Ion Ratio Lower Upper

166 100

165 126.3 85.1 127.7

167 35.3 12.2 18.4#

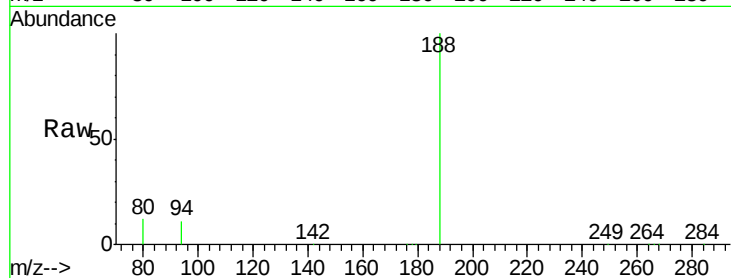




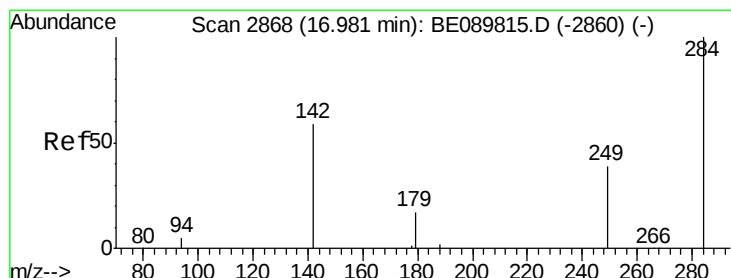
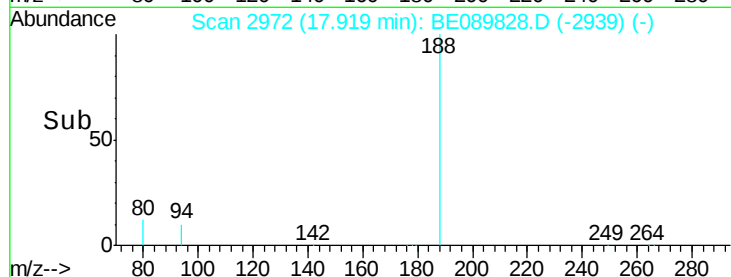
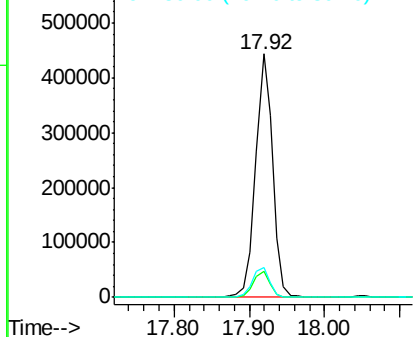
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2972
Delta R.T. -0.00 min
Lab File: BE089828.D
Acq: 25 Mar 2015 2:15

Instrument :
BNA_E
ClientSampleId :
RW-10V

Tgt Ion:188 Resp: 695798
Ion Ratio Lower Upper
188 100
94 10.5 8.5 12.7
80 12.3 10.0 15.0

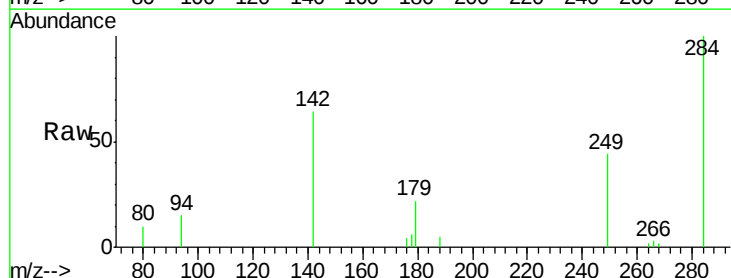


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

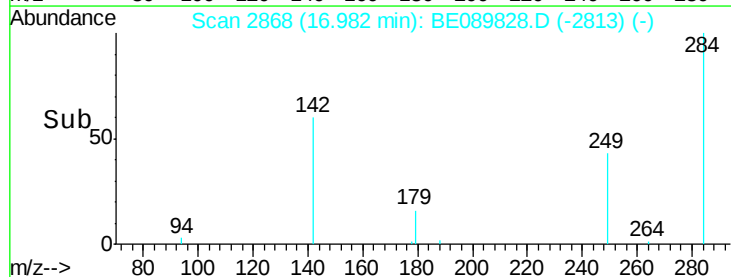
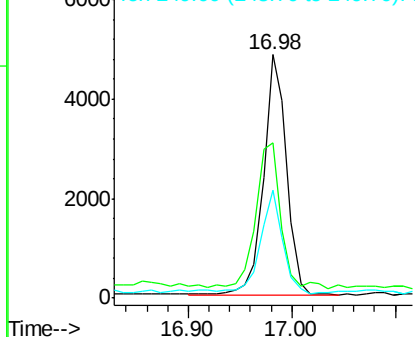


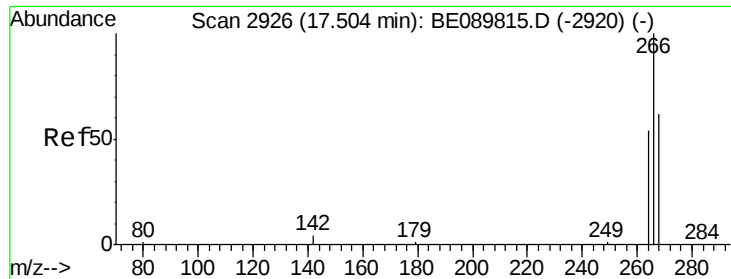
#14
Hexachlorobenzene
Concen: 0.32 ng
RT: 16.98 min Scan# 2868
Delta R.T. -0.00 min
Lab File: BE089828.D
Acq: 25 Mar 2015 2:15

Tgt Ion:284 Resp: 7455
Ion Ratio Lower Upper
284 100
142 66.3 53.3 79.9
249 41.6 31.1 46.7



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: Below Cal

RT: 17.50 min Scan# 2926

Delta R.T. 0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

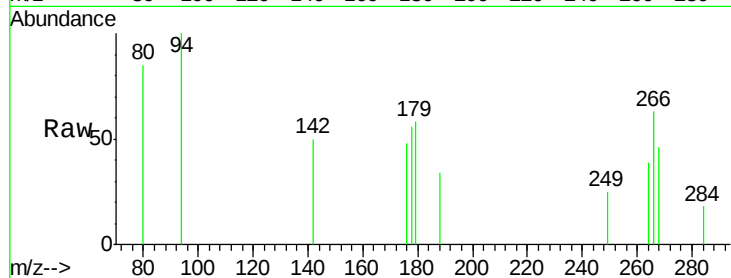
Tgt Ion:266 Resp: 457

Ion Ratio Lower Upper

266 100

268 72.3 51.6 77.4

264 62.3 50.2 75.2

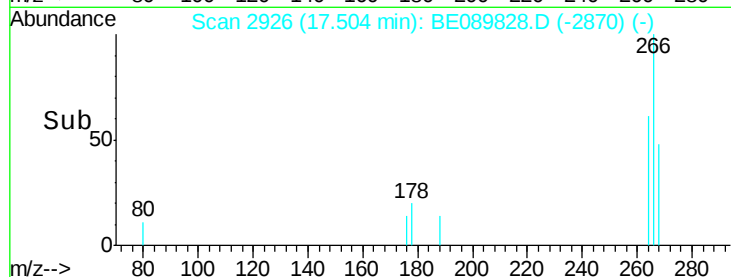


Abundance Ion 265.70 (265.40 to 266.40): E

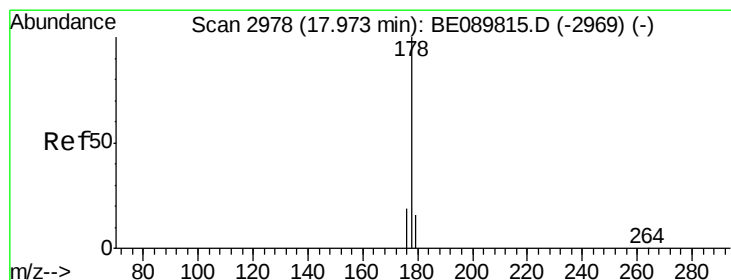
Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

Time-->



Time-->



#16

Phenanthrene

Concen: 0.08 ng

RT: 17.97 min Scan# 2978

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

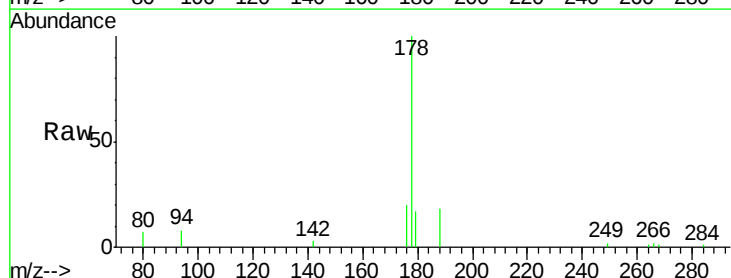
Tgt Ion:178 Resp: 12049

Ion Ratio Lower Upper

178 100

176 19.7 15.4 23.0

179 15.5 12.2 18.4

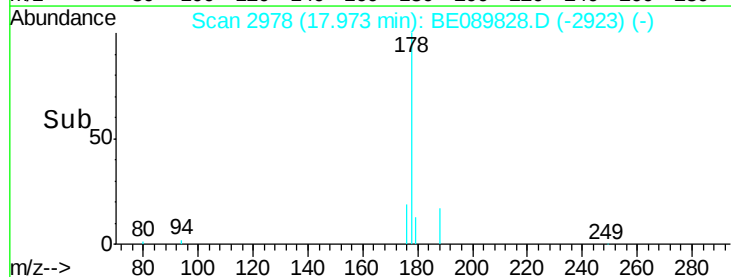


Abundance Ion 178.00 (177.70 to 178.70): E

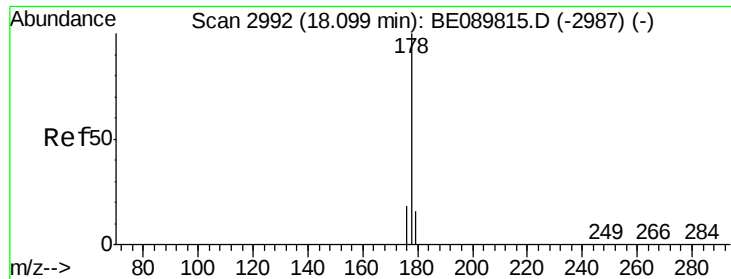
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



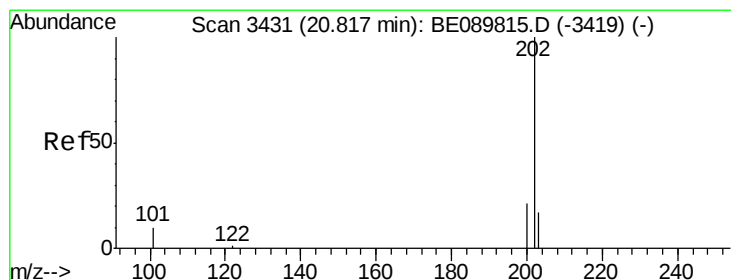
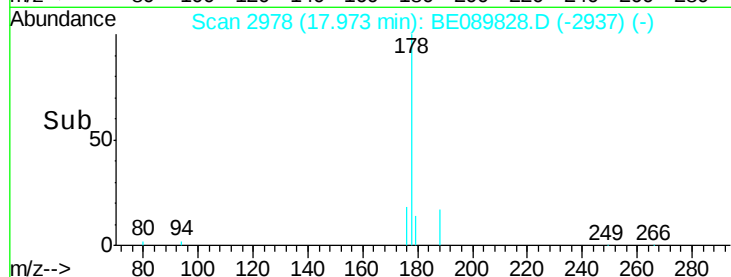
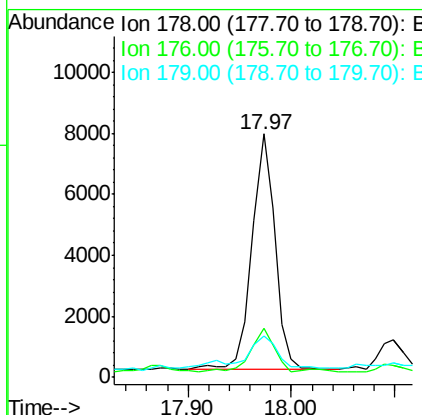
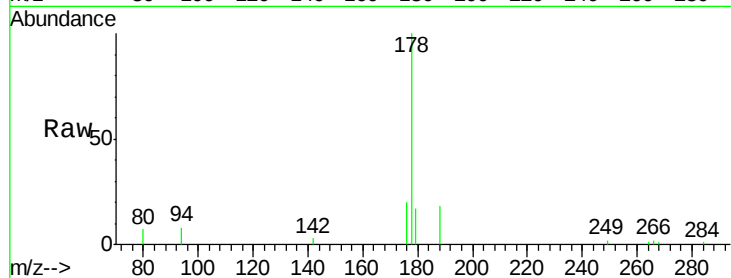
Time-->



#17
 Anthracene
 Concen: 0.09 ng
 RT: 17.97 min Scan# 2978
 Delta R.T. -0.13 min
 Lab File: BE089828.D
 Acq: 25 Mar 2015 2:15

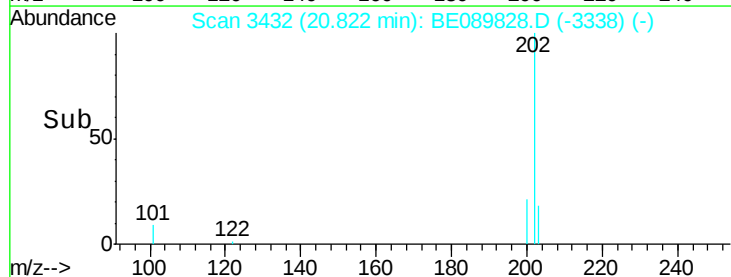
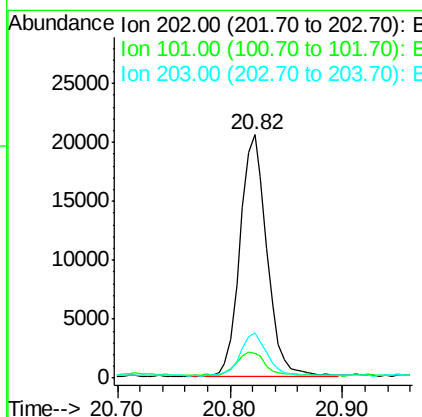
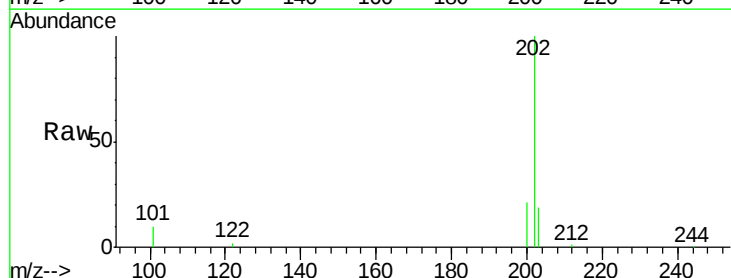
Instrument :
 BNA_E
 ClientSampleId :
 RW-10V

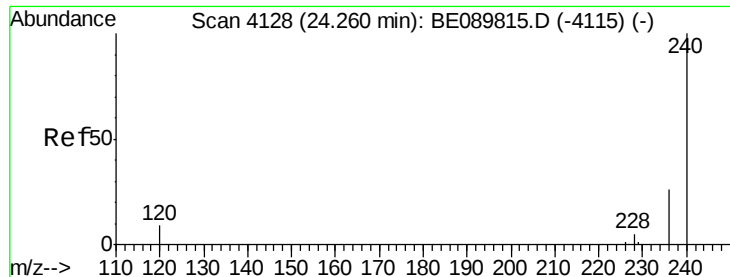
Tgt Ion:178 Resp: 12049
 Ion Ratio Lower Upper
 178 100
 176 19.4 14.6 21.8
 179 15.7 12.1 18.1



#18
 Fluoranthene
 Concen: 0.25 ng
 RT: 20.82 min Scan# 3432
 Delta R.T. -0.00 min
 Lab File: BE089828.D
 Acq: 25 Mar 2015 2:15

Tgt Ion:202 Resp: 33968
 Ion Ratio Lower Upper
 202 100
 101 10.4 8.2 12.2
 203 18.2 14.2 21.4





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.26 min Scan# 4128

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

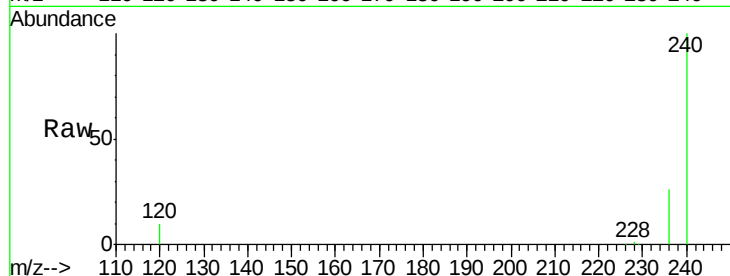
Tgt Ion:240 Resp: 656837

Ion Ratio Lower Upper

240 100

120 10.4 7.5 11.3

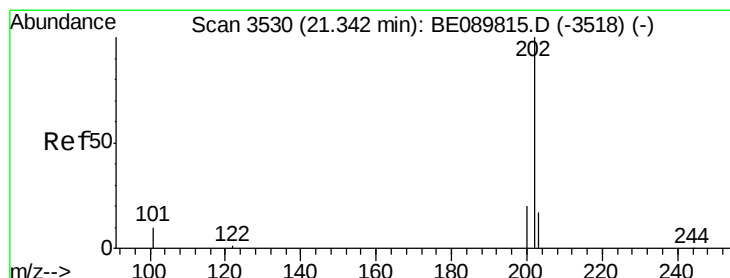
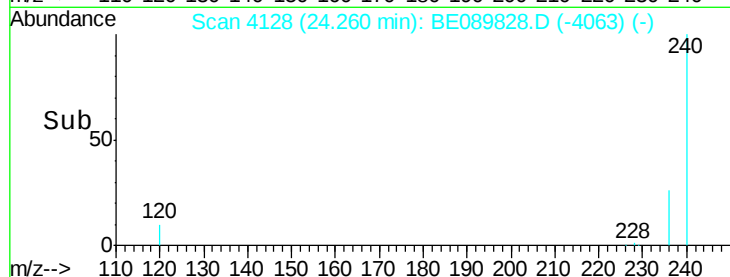
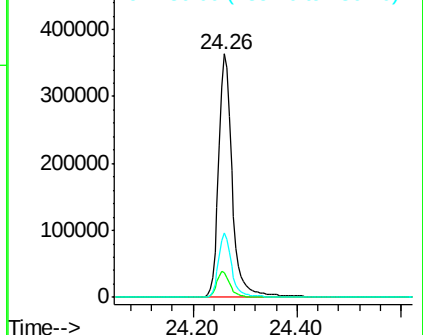
236 26.2 20.5 30.7



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: 0.18 ng

RT: 21.34 min Scan# 3530

Delta R.T. -0.01 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

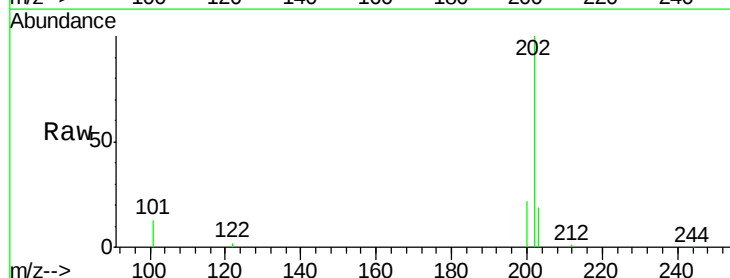
Tgt Ion:202 Resp: 29200

Ion Ratio Lower Upper

202 100

200 20.2 15.9 23.9

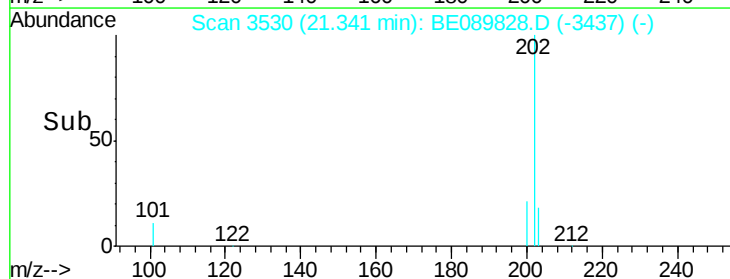
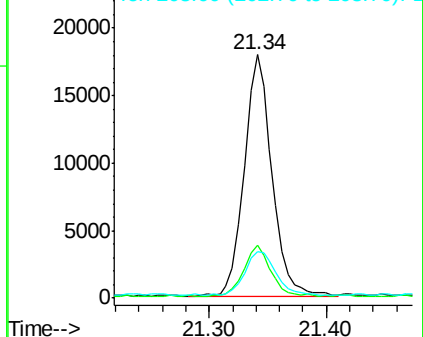
203 20.4 13.6 20.4#

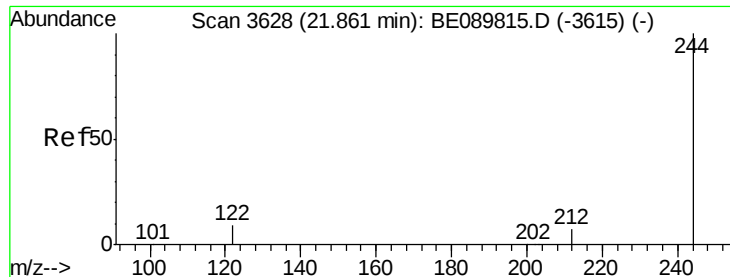


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 9.55 ng

RT: 21.86 min Scan# 3628

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

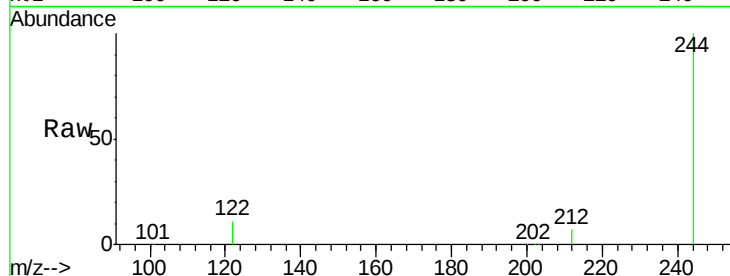
Tgt Ion:244 Resp: 925211

Ion Ratio Lower Upper

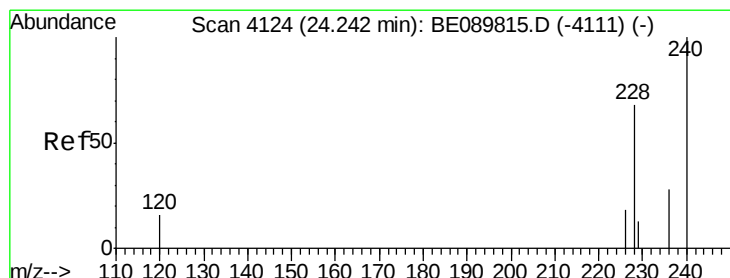
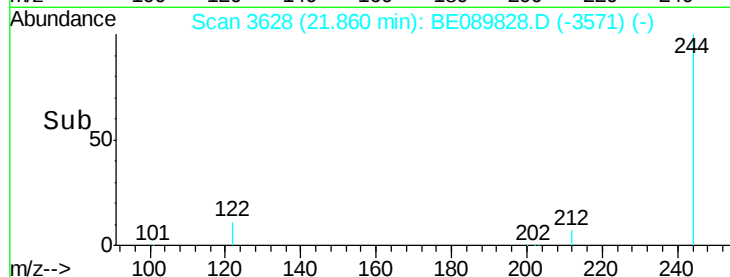
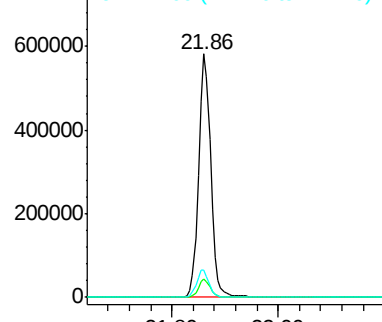
244 100

212 7.4 7.3 10.9

122 11.3 10.5 15.7



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: 0.10 ng

RT: 24.25 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

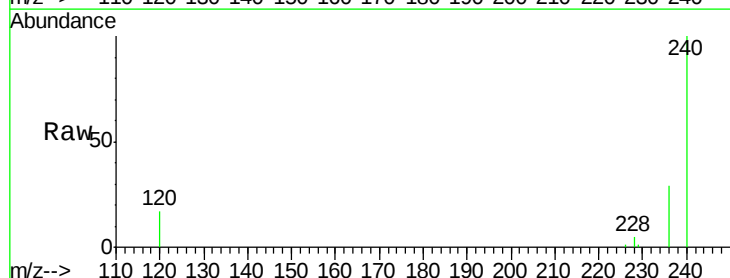
Tgt Ion:228 Resp: 12417

Ion Ratio Lower Upper

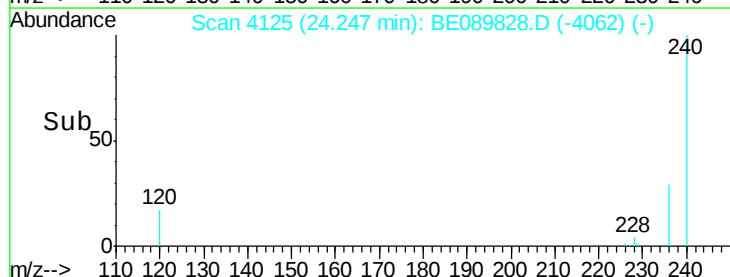
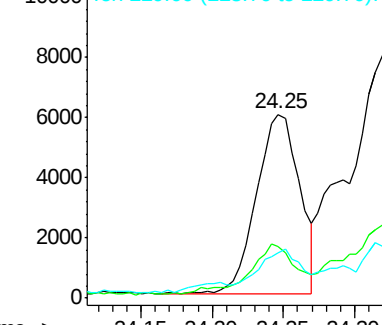
228 100

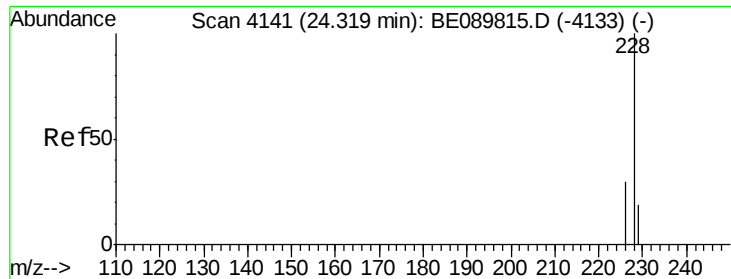
226 27.8 19.8 29.8

229 24.6 16.3 24.5#



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: 0.17 ng

RT: 24.32 min Scan# 4141

Delta R.T. 0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

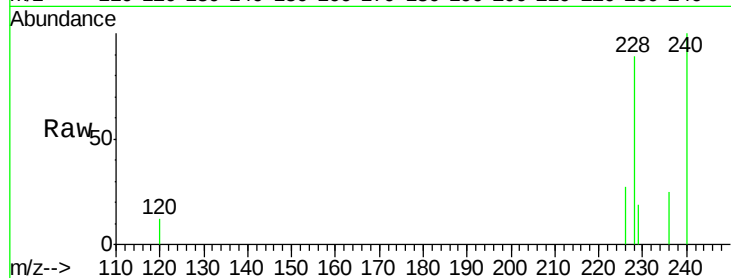
Tgt Ion:228 Resp: 22373

Ion Ratio Lower Upper

228 100

226 29.9 23.0 34.4

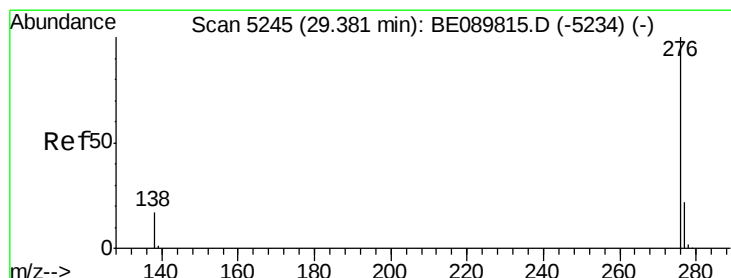
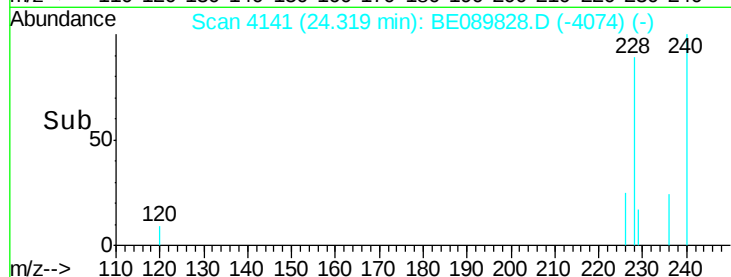
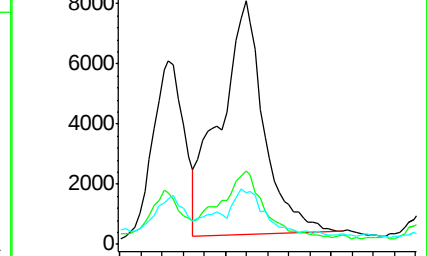
229 21.4 15.8 23.6



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.48 ng

RT: 29.38 min Scan# 5245

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

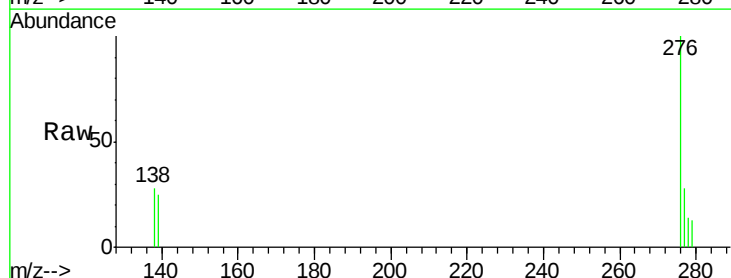
Tgt Ion:276 Resp: 8421

Ion Ratio Lower Upper

276 100

138 11.5 4.3 6.5#

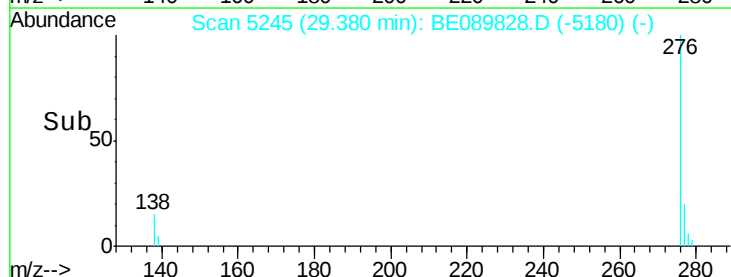
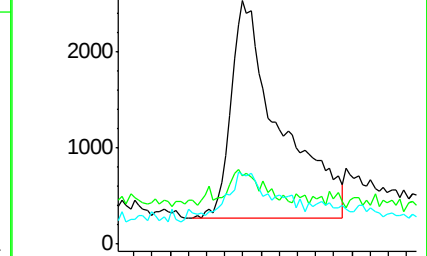
277 12.8 9.0 13.4

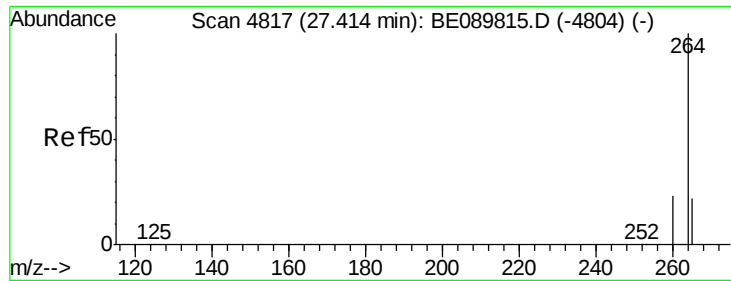


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

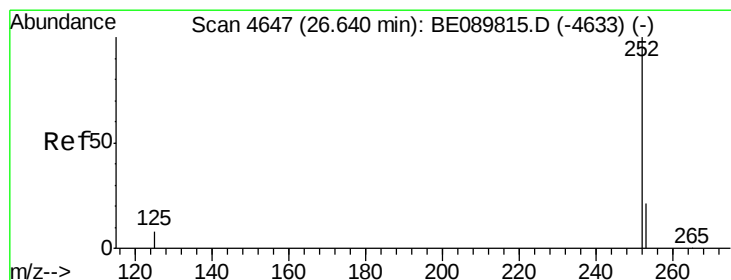
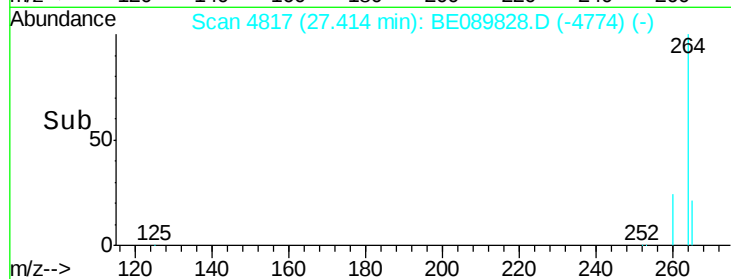
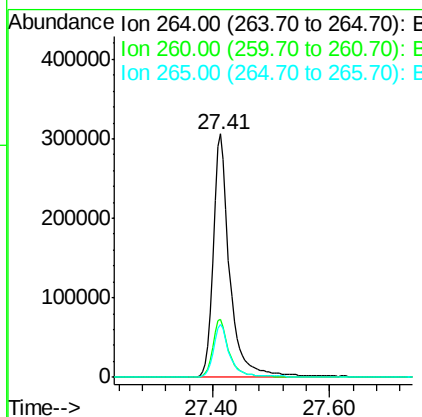
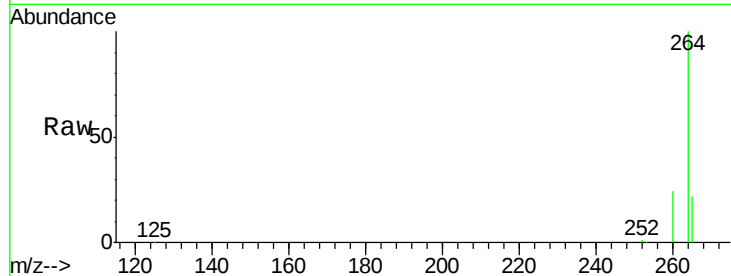




#25
Perylene-d12
Concen: 5.00 ng
RT: 27.41 min Scan# 4817
Delta R.T. -0.00 min
Lab File: BE089828.D
Acq: 25 Mar 2015 2:15

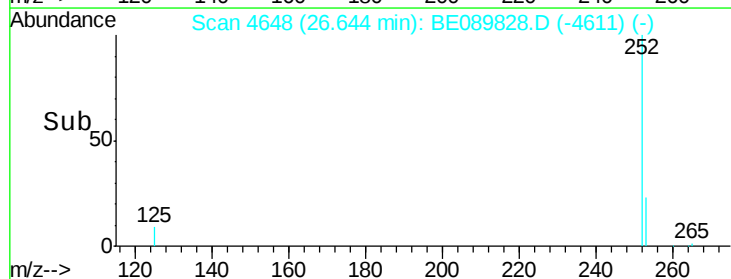
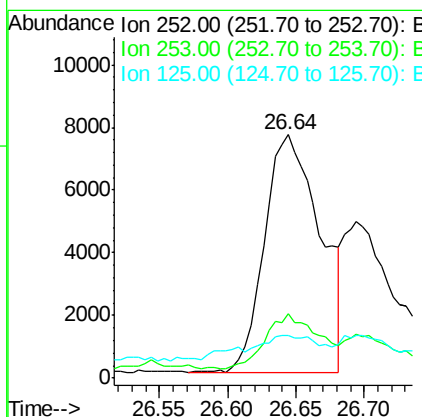
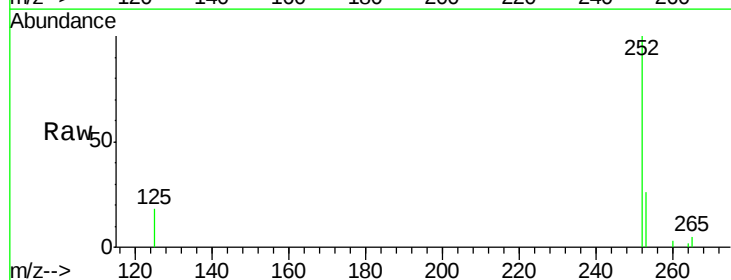
Instrument :
BNA_E
ClientSampleId :
RW-10V

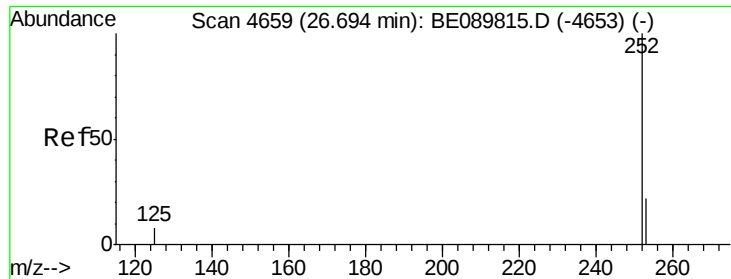
Tgt Ion:264 Resp: 605516
Ion Ratio Lower Upper
264 100
260 23.8 18.2 27.2
265 21.6 17.3 25.9



#26
Benzo(b)fluoranthene
Concen: 0.47 ng
RT: 26.64 min Scan# 4648
Delta R.T. 0.01 min
Lab File: BE089828.D
Acq: 25 Mar 2015 2:15

Tgt Ion:252 Resp: 21391
Ion Ratio Lower Upper
252 100
253 26.4 17.8 26.6
125 17.8 8.7 13.1#





#27

Benzo(k)fluoranthene

Concen: 0.17 ng

RT: 26.64 min Scan# 4648

Delta R.T. -0.06 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

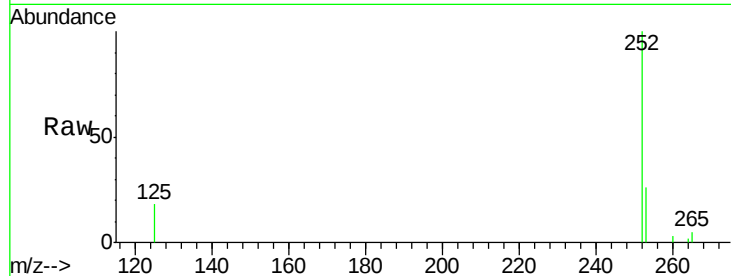
Tgt Ion:252 Resp: 21364

Ion Ratio Lower Upper

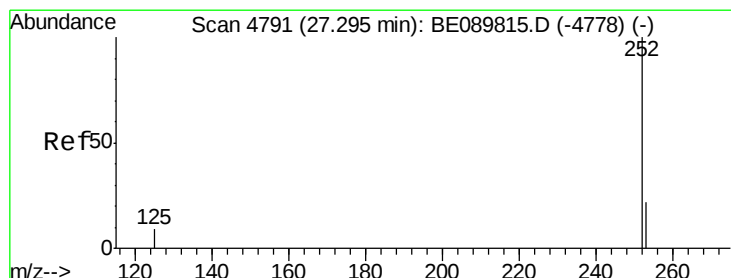
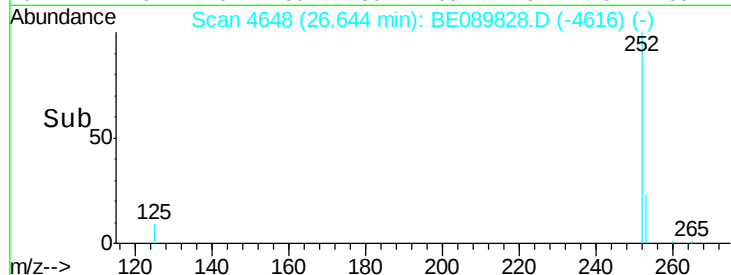
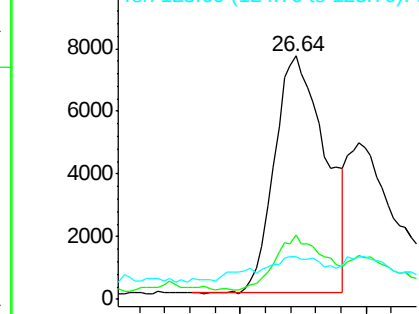
252 100

253 26.4 18.6 28.0

125 17.8 10.8 16.2#



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



#28

Benzo(a)pyrene

Concen: 0.37 ng

RT: 27.30 min Scan# 4791

Delta R.T. -0.00 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

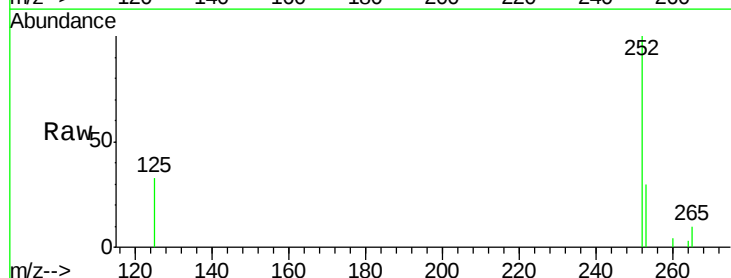
Tgt Ion:252 Resp: 9327

Ion Ratio Lower Upper

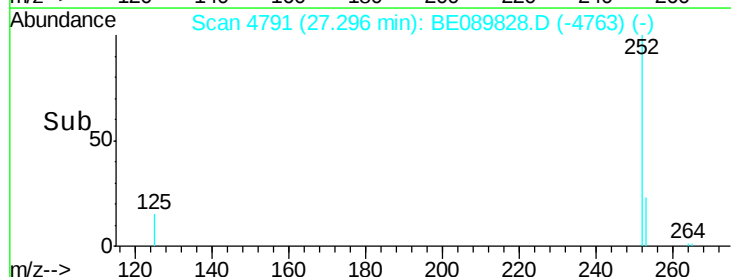
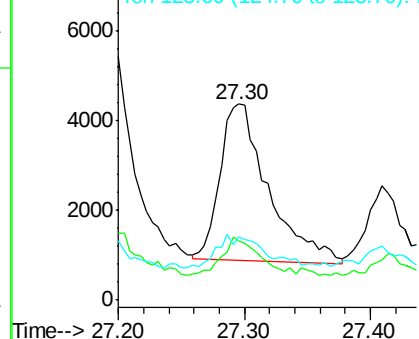
252 100

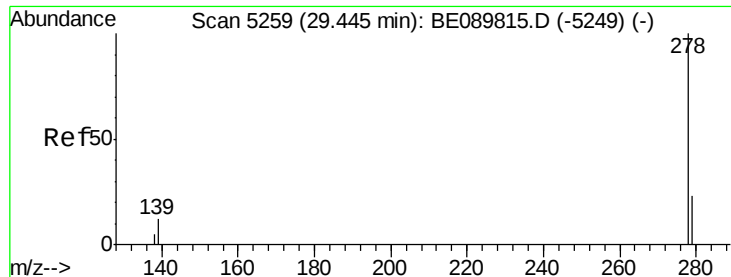
253 30.0 21.0 31.4

125 32.5 13.3 19.9#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.42 ng

RT: 29.43 min Scan# 5256

Delta R.T. -0.01 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

Instrument :

BNA_E

ClientSampleId :

RW-10V

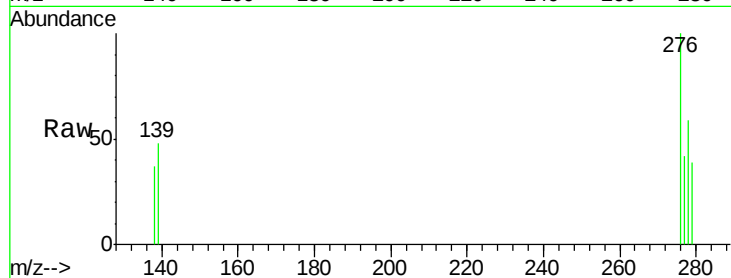
Tgt Ion: 278 Resp: 901

Ion Ratio Lower Upper

278 100

139 82.1 20.0 30.0#

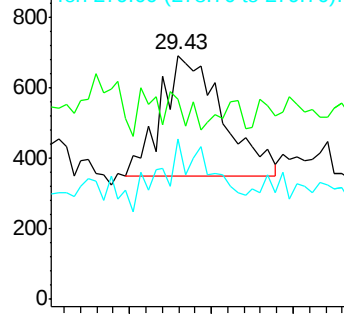
279 65.8 28.9 43.3#



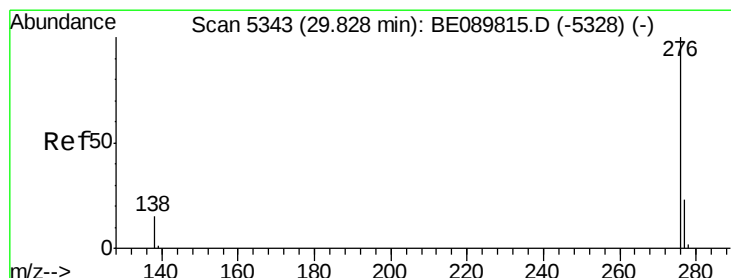
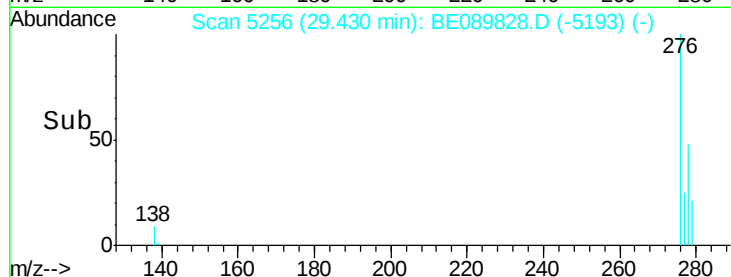
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.35 ng

RT: 29.83 min Scan# 5343

Delta R.T. 0.01 min

Lab File: BE089828.D

Acq: 25 Mar 2015 2:15

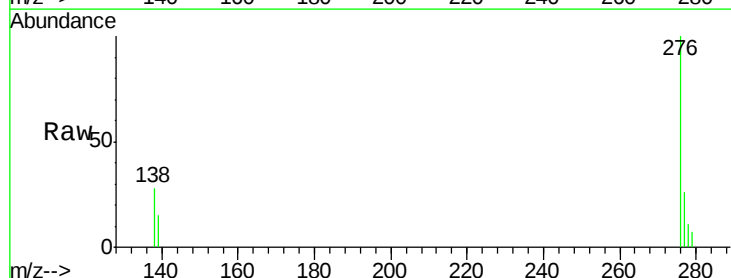
Tgt Ion: 276 Resp: 13079

Ion Ratio Lower Upper

276 100

277 26.3 19.2 28.8

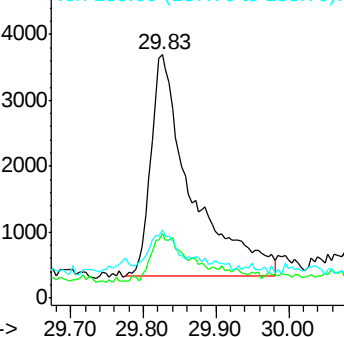
138 28.0 22.9 34.3



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



Time-->

