

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089822.D
 Acq On : 24 Mar 2015 20:14
 Operator : TP/JJ
 Sample : PB82216BL
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BL

Quant Time: Mar 25 02:31:44 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	161900	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	662741	5.00	ng	0.00
8) Acenaphthene-d10	14.38	164	298519	5.00	ng	0.00
13) Phenanthrene-d10	17.92	188	511829	5.00	ng	0.00
19) Chrysene-d12	24.26	240	425172	5.00	ng	0.00
25) Perylene-d12	27.42	264	329178	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	464019	9.56	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	598373	8.57	ng	0.00
21) Terphenyl-d14	21.86	244	657437	10.48	ng	0.00

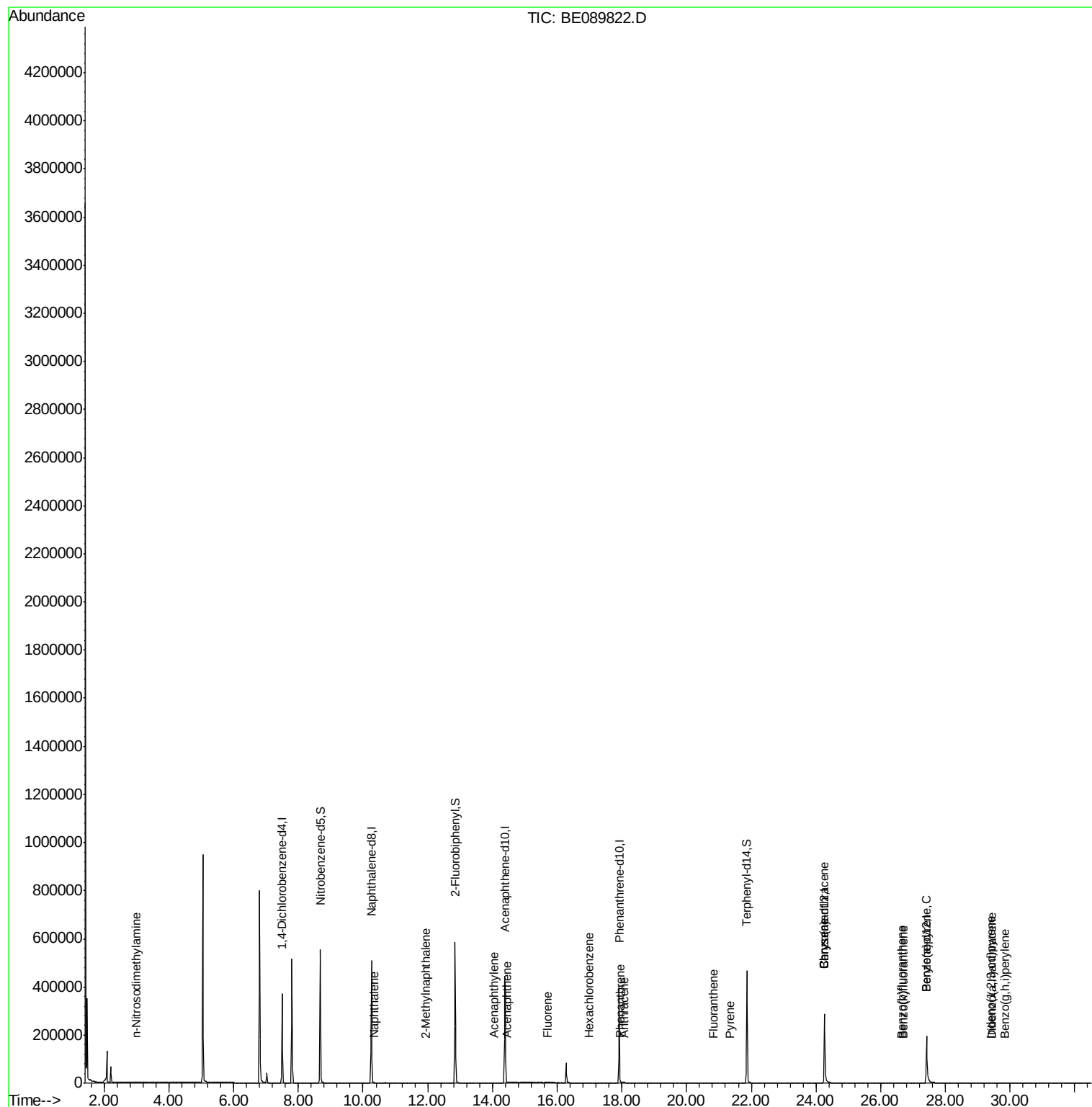
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.51	88	84	Below Cal	#	70
3) n-Nitrosodimethylamine	3.01	42	90	0.00	ng	1
6) Naphthalene	10.34	128	40	0.00	ng	57
7) 2-Methylnaphthalene	11.94	142	17	0.00	ng	5
10) Acenaphthylene	14.04	152	214	0.00	ng	11
11) Acenaphthene	14.44	154	73	0.00	ng	1
12) Fluorene	15.70	166	244	0.00	ng	84
14) Hexachlorobenzene	16.97	284	32	0.00	ng	24
15) Pentachlorophenol	17.52	266	37	Below Cal		89
16) Phenanthrene	17.97	178	143	0.00	ng	60
17) Anthracene	18.08	178	80	0.00	ng	38
18) Fluoranthene	20.83	202	144	0.00	ng	77
20) Pyrene	21.34	202	38	0.00	ng	65
22) Benzo(a)anthracene	24.26	228	991	0.01	ng	77
23) Chrysene	24.26	228	991	0.01	ng	73
24) Indeno(1,2,3-cd)pyrene	29.39	276	17	0.42	ng	1
26) Benzo(b)fluoranthene	26.64	252	31	0.31	ng	1
27) Benzo(k)fluoranthene	26.71	252	10	0.00	ng	1
28) Benzo(a)pyrene	27.41	252	1189	0.31	ng	57
29) Dibenzo(a,h)anthracene	29.43	278	21	0.42	ng	3
30) Benzo(g,h,i)perylene	29.84	276	24	0.25	ng	1

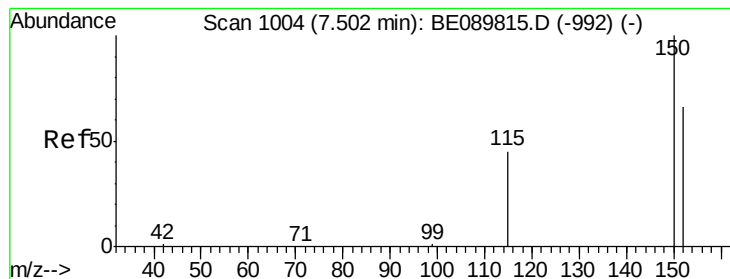
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

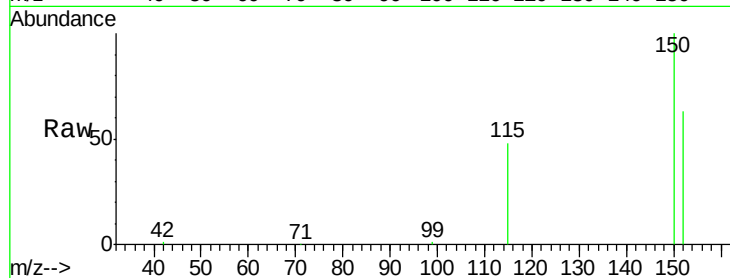
Tgt Ion: 152 Resp: 161900

Ion Ratio Lower Upper

152 100

150 157.7 125.5 188.3

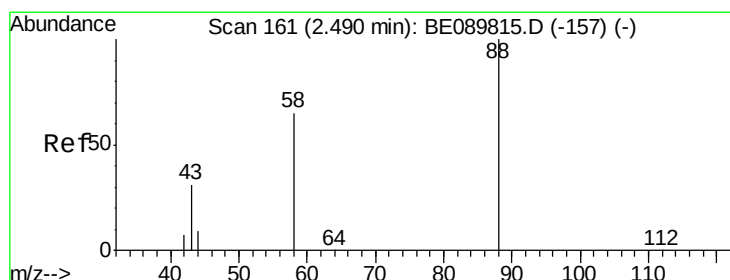
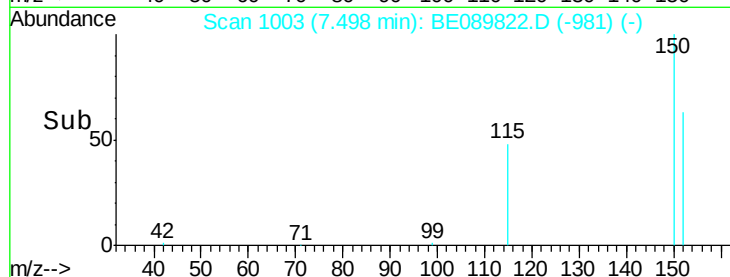
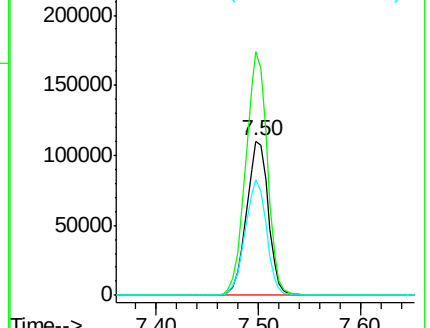
115 75.0 58.0 87.0



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: Below Cal

RT: 2.51 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

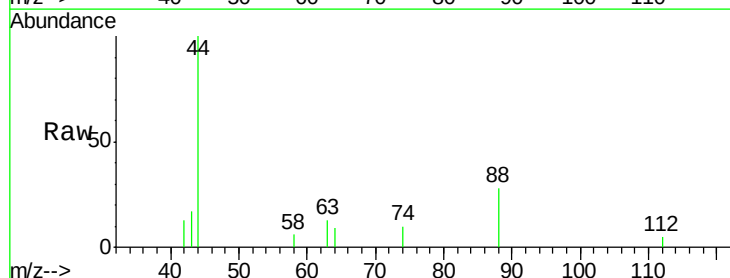
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

58 69.0 48.6 72.8

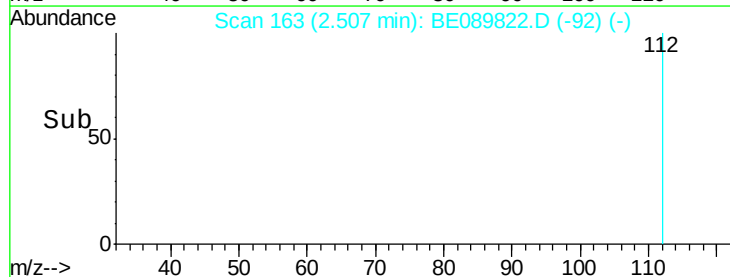
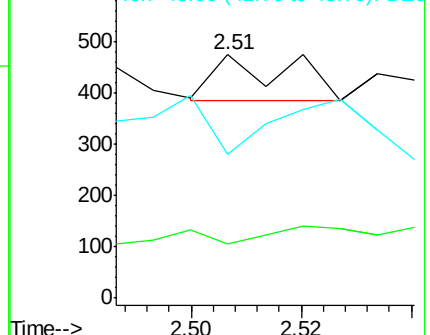
43 0.0 28.6 43.0#

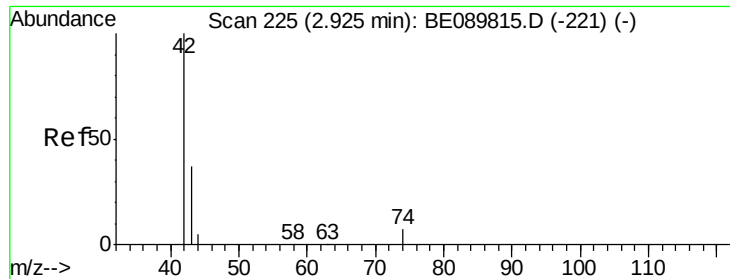


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.00 ng

RT: 3.01 min Scan# 237

Delta R.T. 0.02 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

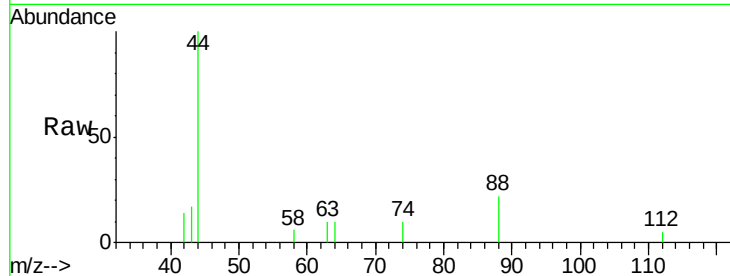
Tgt Ion: 42 Resp: 90

Ion Ratio Lower Upper

42 100

74 128.9 68.7 103.1#

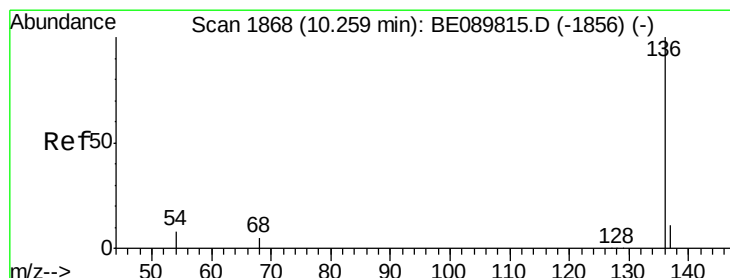
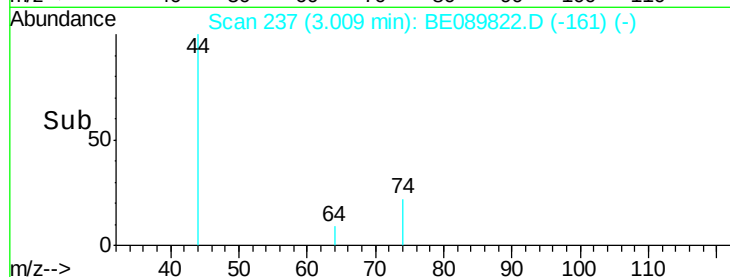
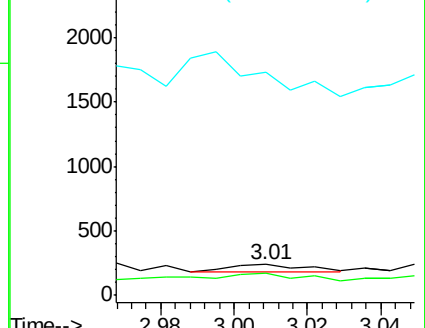
44 518.9 6.2 9.4#



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: BE089822.D

Acq: 24 Mar 2015 20:14

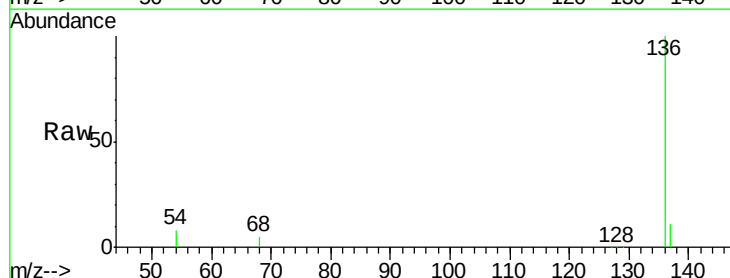
Tgt Ion: 136 Resp: 662741

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

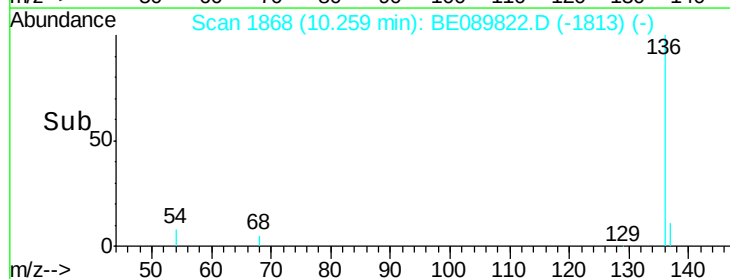
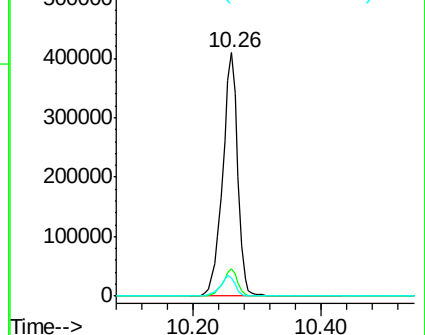
54 7.8 7.0 10.4

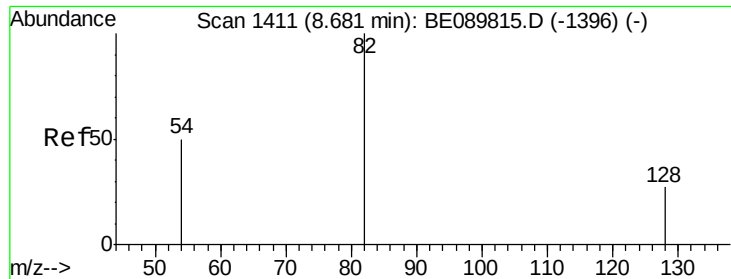


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 9.56 ng

RT: 8.68 min Scan# 1410

Delta R.T. -0.00 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

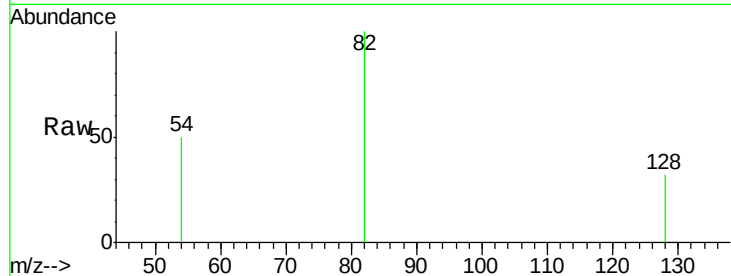
Tgt Ion: 82 Resp: 464019

Ion Ratio Lower Upper

82 100

128 32.3 24.6 37.0

54 50.4 43.0 64.6



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

8.68

400000

300000

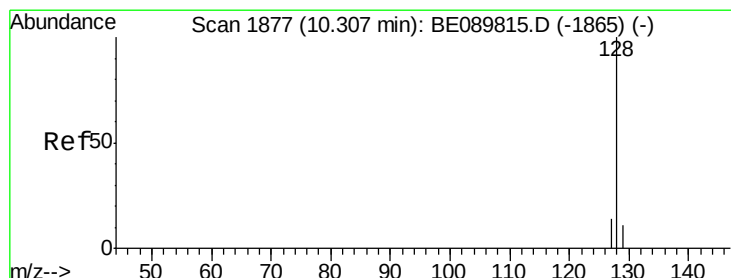
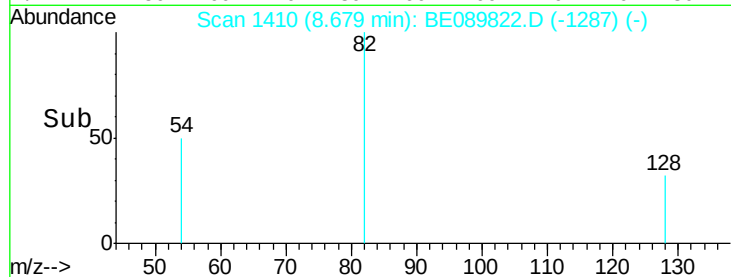
200000

100000

0

Time-->

8.60 8.70 8.80



#6

Naphthalene

Concen: 0.00 ng

RT: 10.34 min Scan# 1883

Delta R.T. 0.03 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

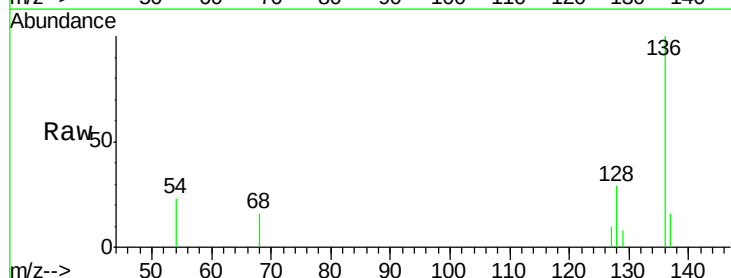
Tgt Ion: 128 Resp: 40

Ion Ratio Lower Upper

128 100

129 27.6 10.0 15.0#

127 34.9 12.5 18.7#



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

10.34

300

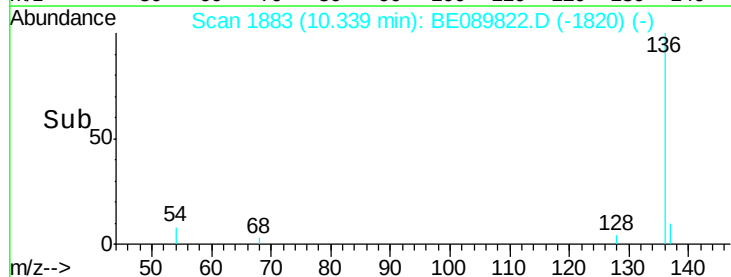
200

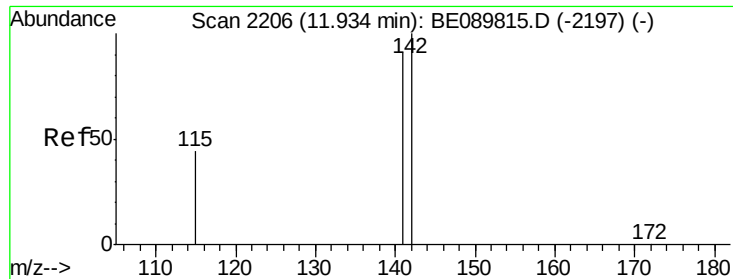
100

0

Time-->

10.32 10.33 10.34 10.35





#7

2-Methylnaphthalene

Concen: 0.00 ng

RT: 11.94 min Scan# 2207

Delta R.T. 0.00 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampled :

PB82216BL

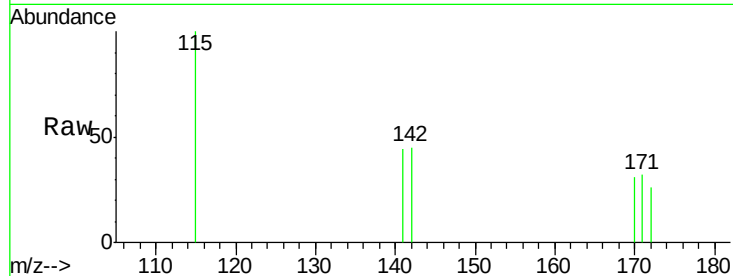
Tgt Ion:142 Resp: 17

Ion Ratio Lower Upper

142 100

141 98.0 72.8 109.2

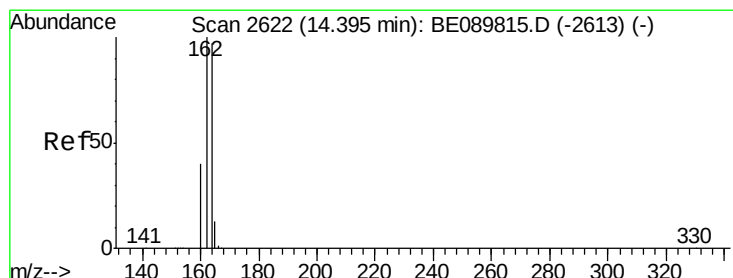
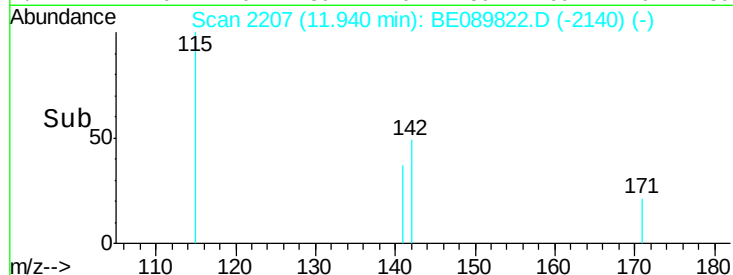
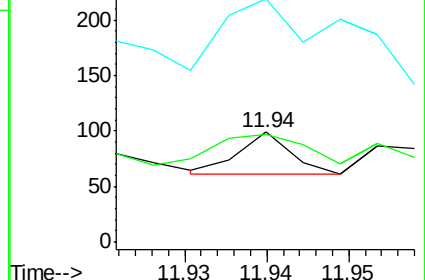
115 221.2 32.9 49.3#



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: 14.38 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

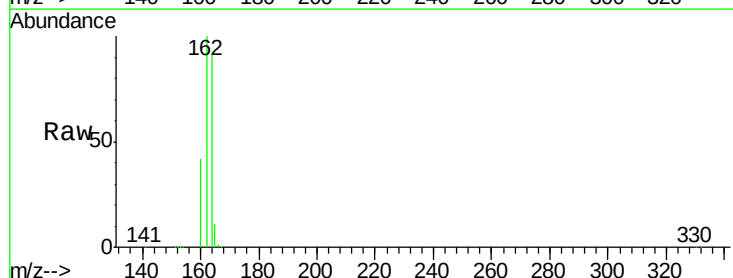
Tgt Ion:164 Resp: 298519

Ion Ratio Lower Upper

164 100

162 108.2 87.6 131.4

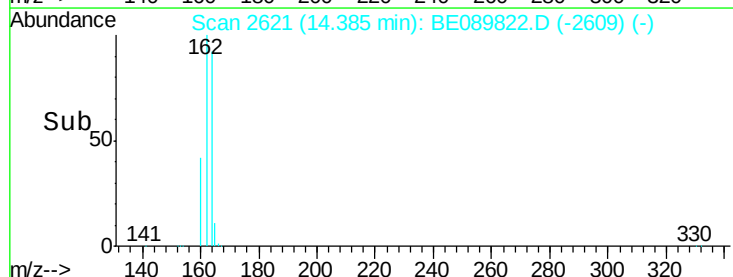
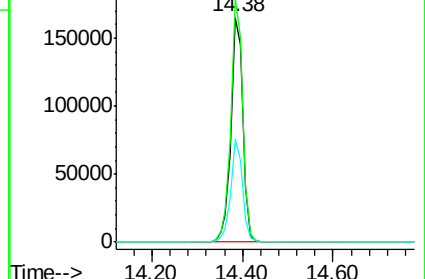
160 45.8 36.7 55.1

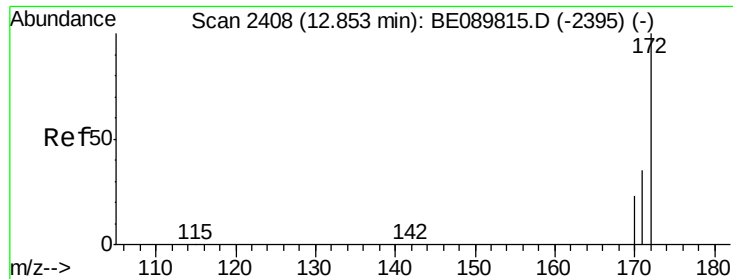


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.57 ng

RT: 12.85 min Scan# 2407

Delta R.T. -0.00 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

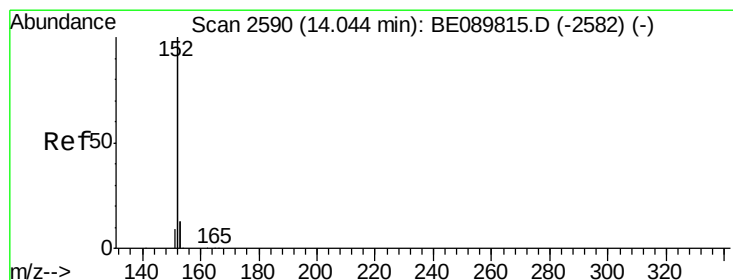
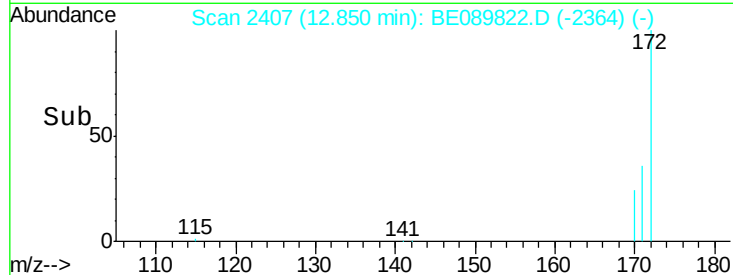
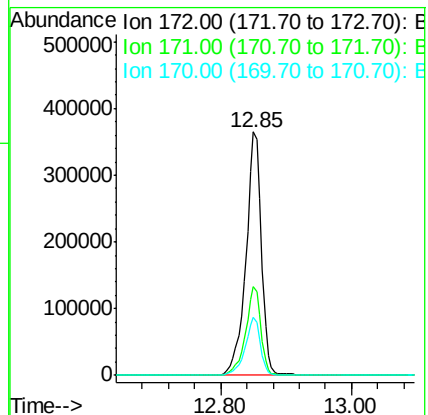
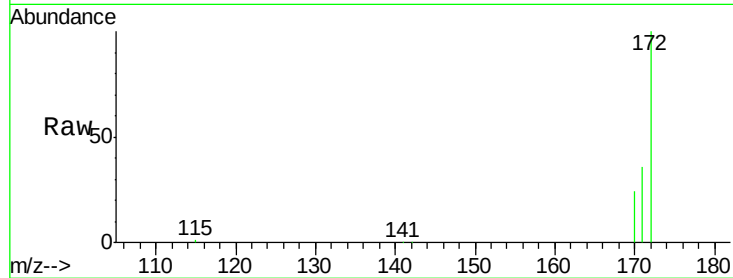
Tgt Ion:172 Resp: 598373

Ion Ratio Lower Upper

172 100

171 36.5 30.8 46.2

170 23.8 21.0 31.4



#10

Acenaphthylene

Concen: 0.00 ng

RT: 14.04 min Scan# 2590

Delta R.T. -0.00 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

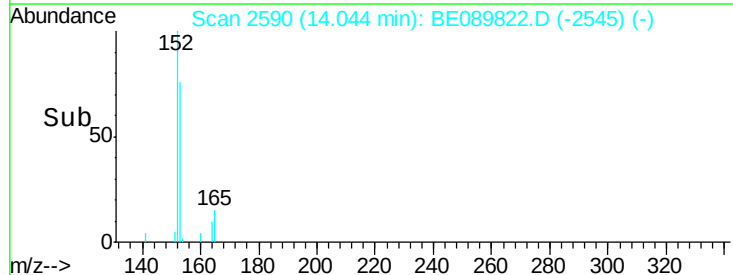
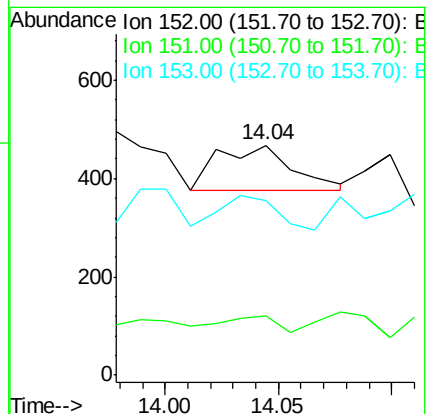
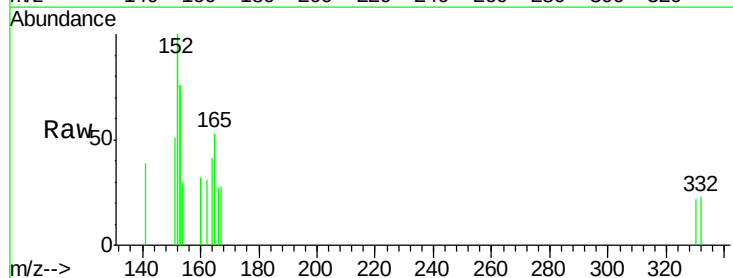
Tgt Ion:152 Resp: 214

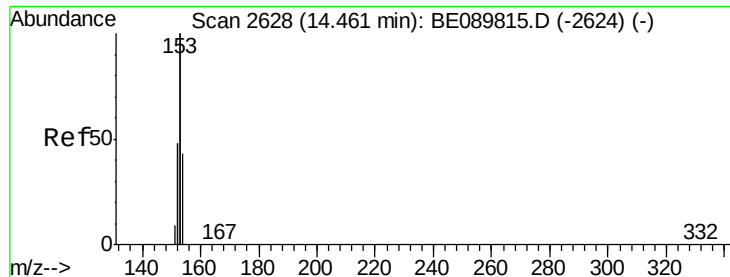
Ion Ratio Lower Upper

152 100

151 22.9 3.9 5.9#

153 54.7 11.0 16.4#





#11

Acenaphthene

Concen: 0.00 ng

RT: 14.44 min Scan# 2626

Delta R.T. -0.02 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

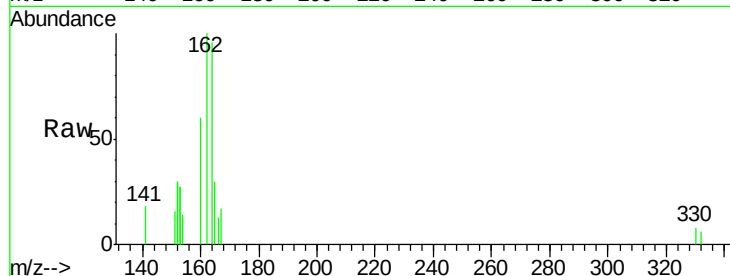
Tgt Ion:154 Resp: 73

Ion Ratio Lower Upper

154 100

153 0.0 401.5 602.3#

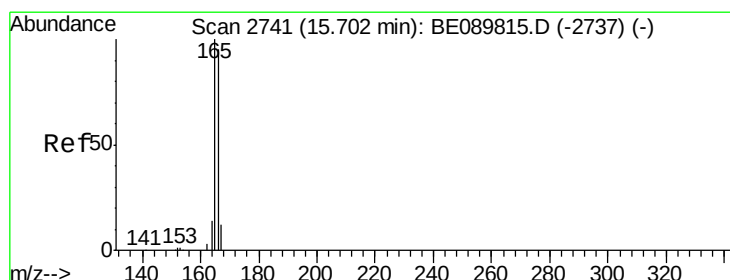
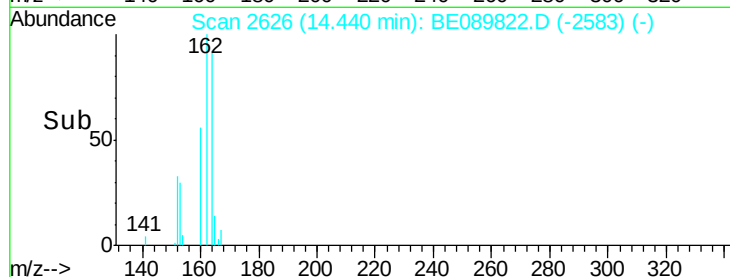
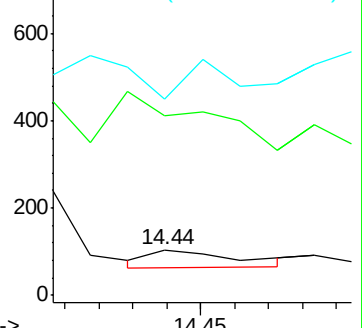
152 0.0 198.6 298.0#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#12

Fluorene

Concen: 0.00 ng

RT: 15.70 min Scan# 2741

Delta R.T. -0.01 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

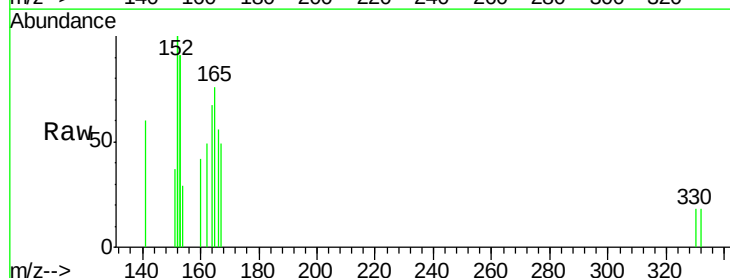
Tgt Ion:166 Resp: 244

Ion Ratio Lower Upper

166 100

165 104.5 85.1 127.7

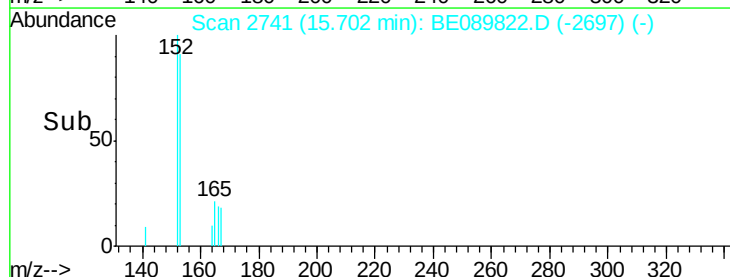
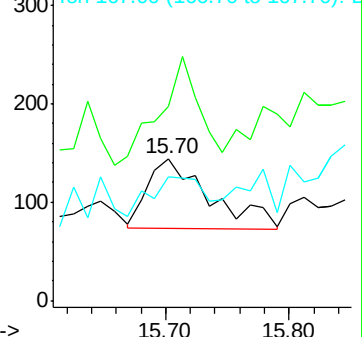
167 64.8 12.2 18.4#

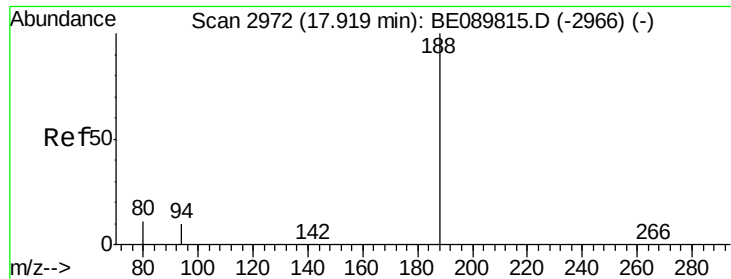


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

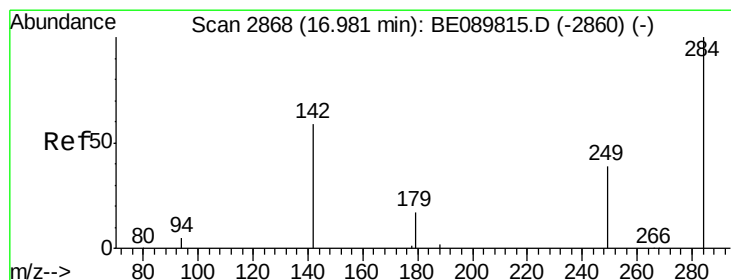
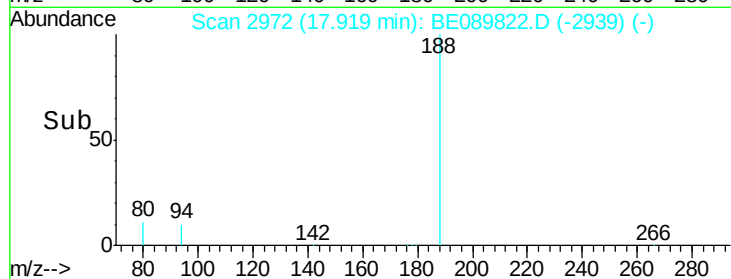
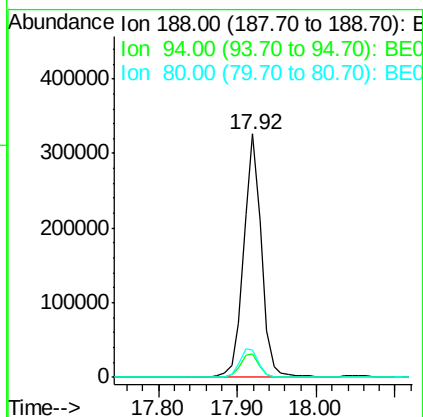
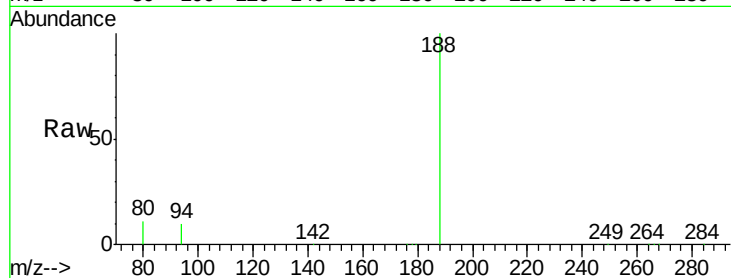




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2972
Delta R.T. 0.00 min
Lab File: BE089822.D
Acq: 24 Mar 2015 20:14

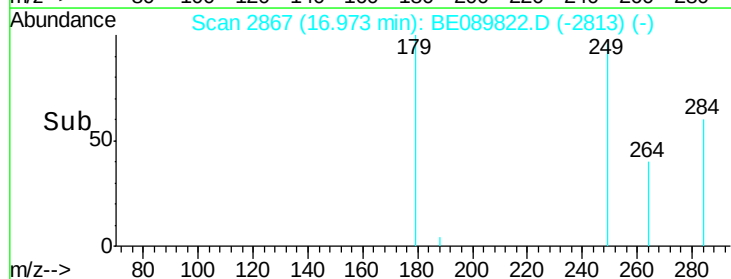
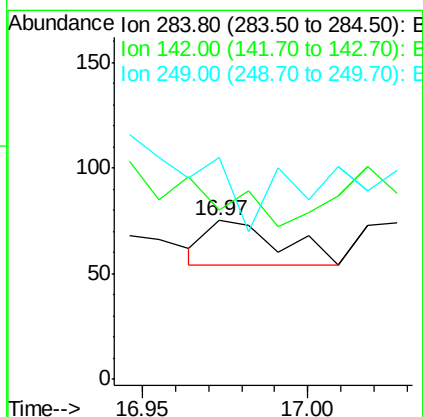
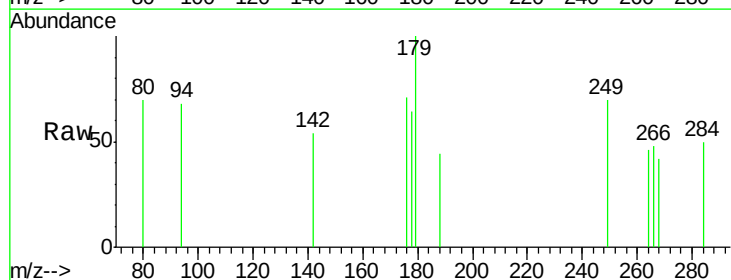
Instrument :
BNA_E
ClientSampleId :
PB82216BL

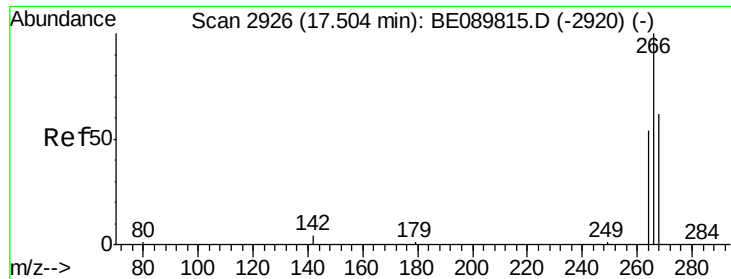
Tgt Ion:188 Resp: 511829
Ion Ratio Lower Upper
188 100
94 9.7 8.5 12.7
80 11.3 10.0 15.0



#14
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.97 min Scan# 2867
Delta R.T. -0.01 min
Lab File: BE089822.D
Acq: 24 Mar 2015 20:14

Tgt Ion:284 Resp: 32
Ion Ratio Lower Upper
284 100
142 0.0 53.3 79.9#
249 0.0 31.1 46.7#

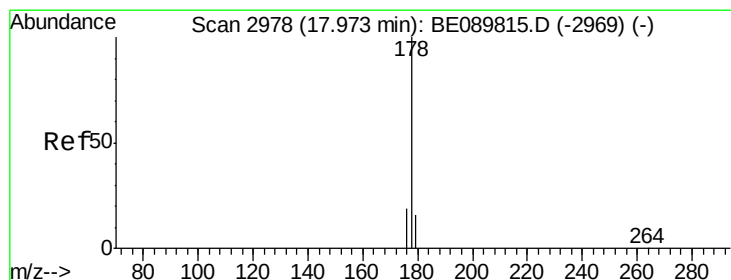
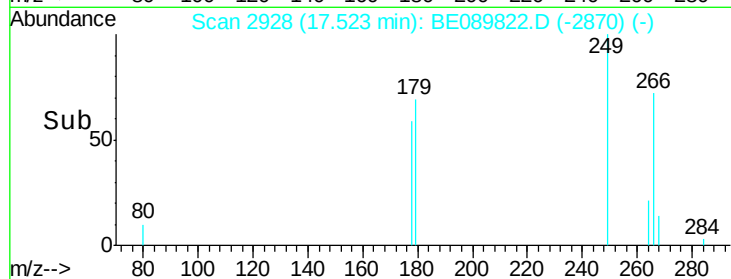
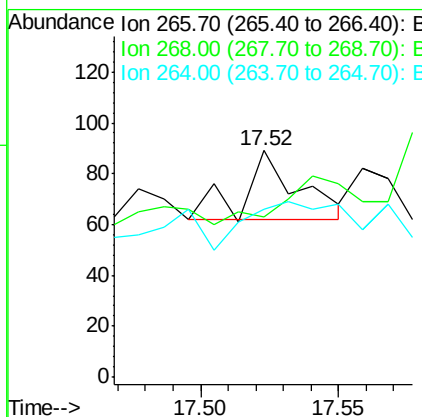
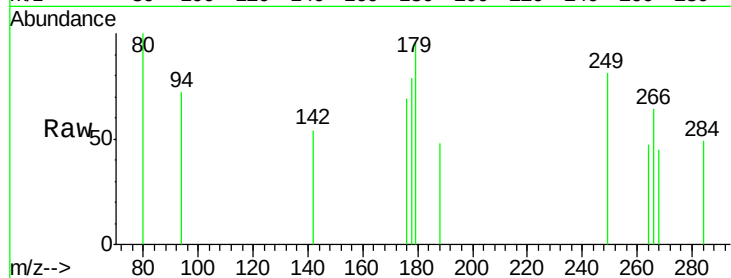




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 17.52 min Scan# 2928
 Delta R.T. 0.02 min
 Lab File: BE089822.D
 Acq: 24 Mar 2015 20:14

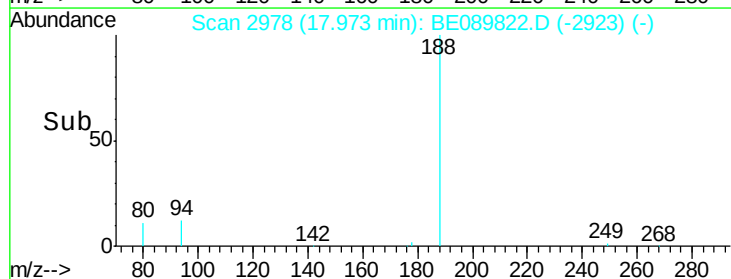
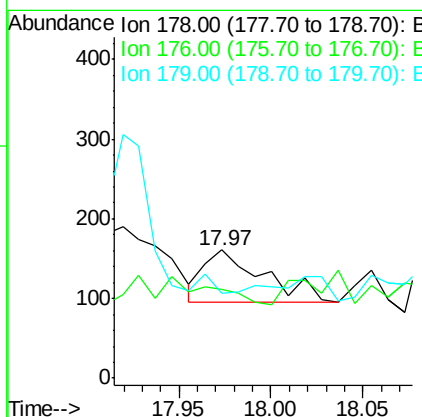
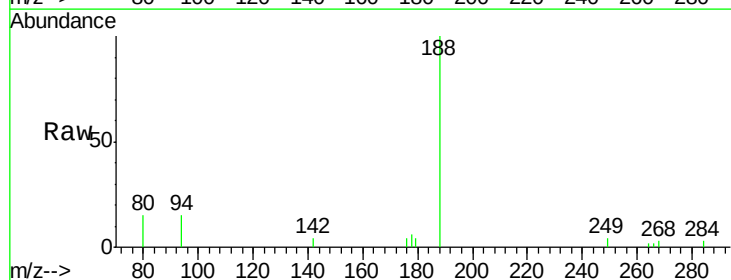
Instrument :
 BNA_E
 ClientSampleId :
 PB82216BL

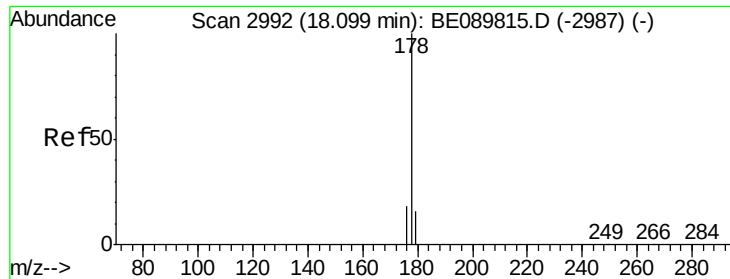
Tgt Ion: 266 Resp: 37
 Ion Ratio Lower Upper
 266 100
 268 70.8 51.6 77.4
 264 74.2 50.2 75.2



#16
 Phenanthrene
 Concen: 0.00 ng
 RT: 17.97 min Scan# 2978
 Delta R.T. 0.00 min
 Lab File: BE089822.D
 Acq: 24 Mar 2015 20:14

Tgt Ion: 178 Resp: 143
 Ion Ratio Lower Upper
 178 100
 176 0.0 15.4 23.0#
 179 0.0 12.2 18.4#





#17

Anthracene

Concen: 0.00 ng

RT: 18.08 min Scan# 2990

Delta R.T. -0.02 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

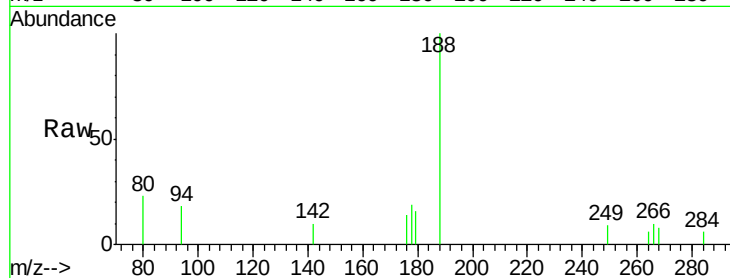
Tgt Ion:178 Resp: 80

Ion Ratio Lower Upper

178 100

176 55.0 14.6 21.8#

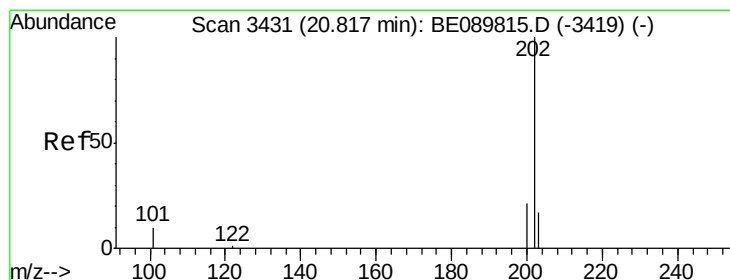
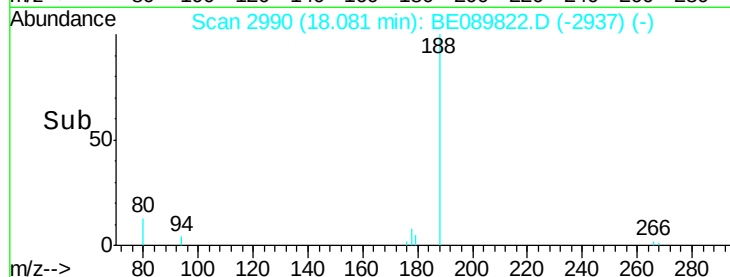
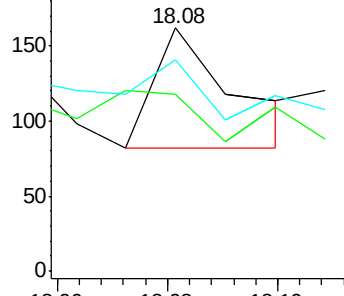
179 0.0 12.1 18.1#



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: 0.00 ng

RT: 20.83 min Scan# 3433

Delta R.T. 0.01 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

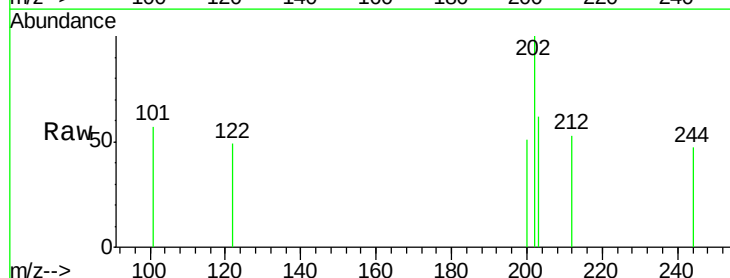
Tgt Ion:202 Resp: 144

Ion Ratio Lower Upper

202 100

101 29.2 8.2 12.2#

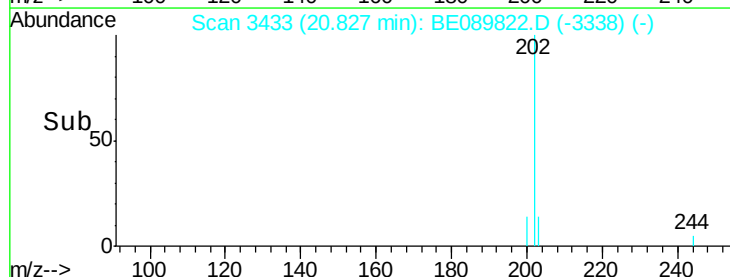
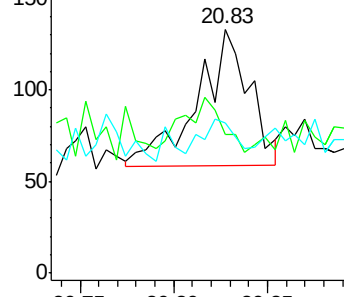
203 14.6 14.2 21.4

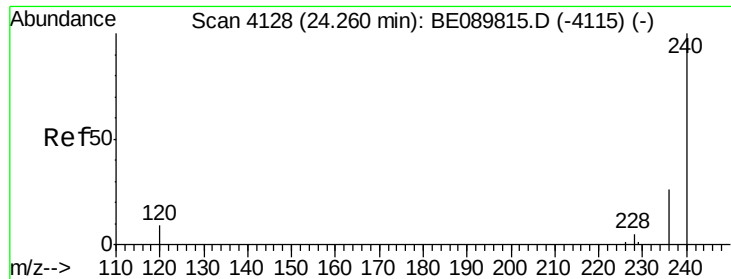


Abundance Ion 202.00 (201.70 to 202.70): E

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# 4128

Delta R.T. -0.00 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampled :

PB82216BL

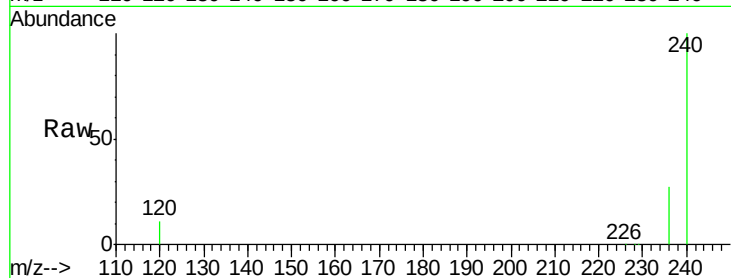
Tgt Ion:240 Resp: 425172

Ion Ratio Lower Upper

240 100

120 10.7 7.5 11.3

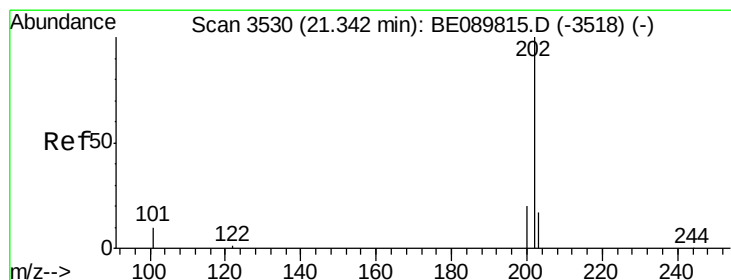
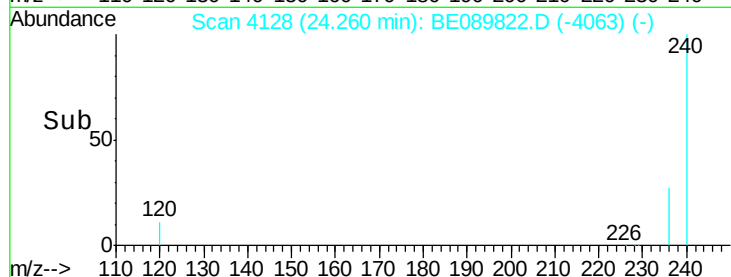
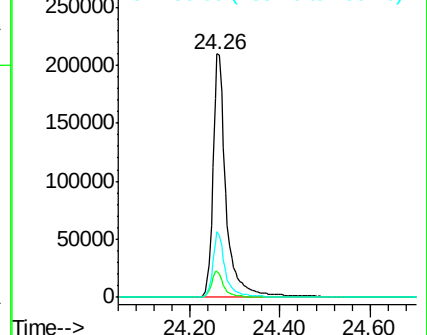
236 26.7 20.5 30.7



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: 0.00 ng

RT: 21.34 min Scan# 3529

Delta R.T. -0.01 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

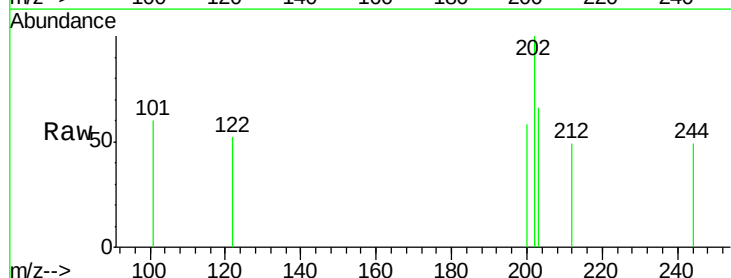
Tgt Ion:202 Resp: 38

Ion Ratio Lower Upper

202 100

200 34.2 15.9 23.9#

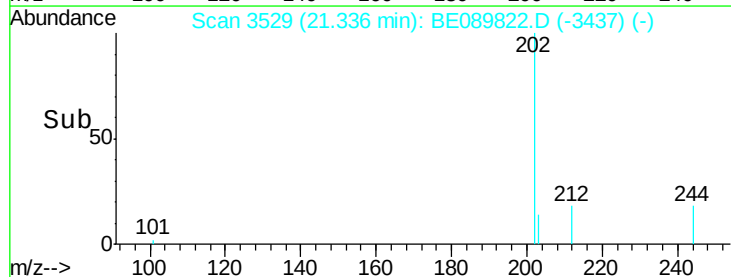
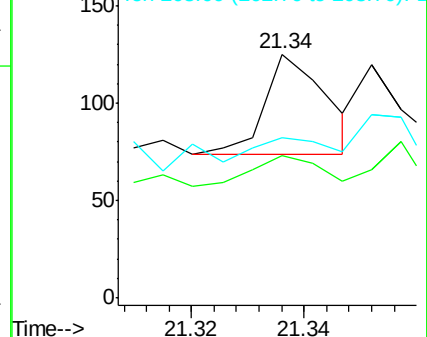
203 0.0 13.6 20.4#

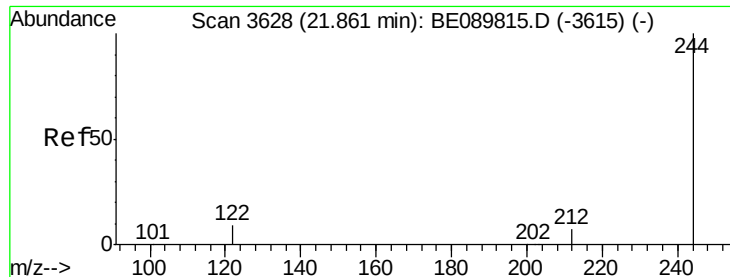


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 10.48 ng

RT: 21.86 min Scan# 3628

Delta R.T. 0.00 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

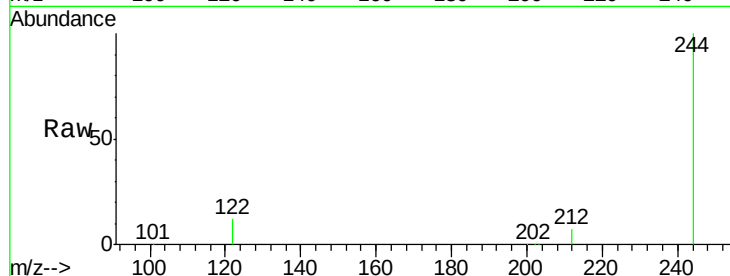
Tgt Ion:244 Resp: 657437

Ion Ratio Lower Upper

244 100

212 7.5 7.3 10.9

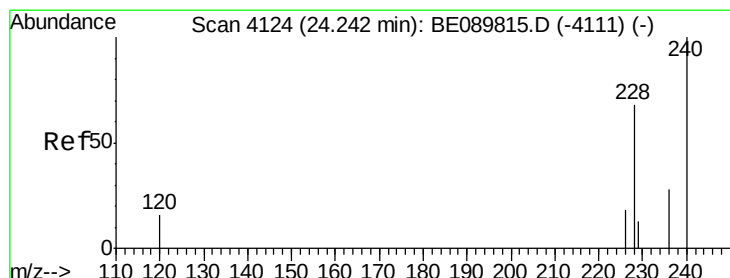
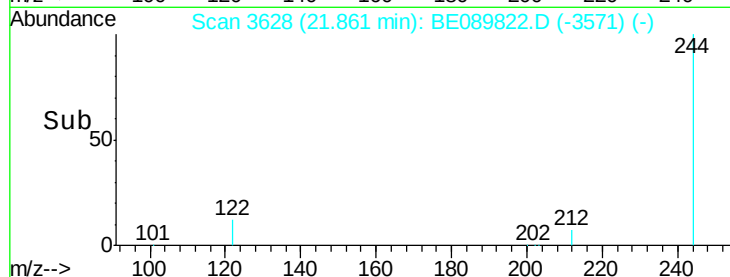
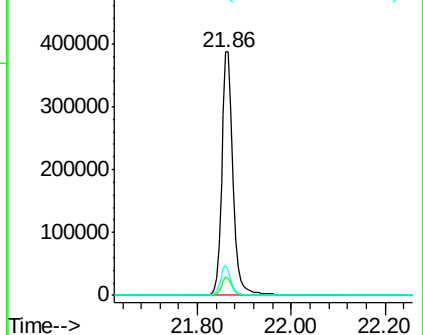
122 12.3 10.5 15.7



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: 0.01 ng

RT: 24.26 min Scan# 4128

Delta R.T. 0.01 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

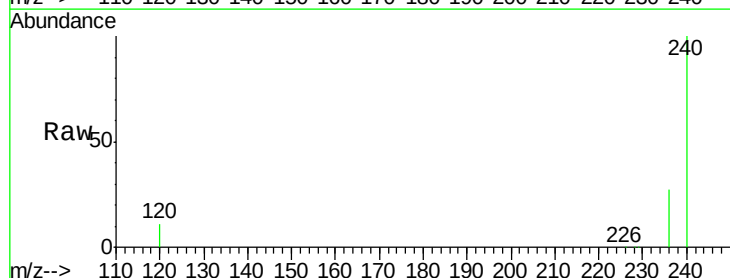
Tgt Ion:228 Resp: 991

Ion Ratio Lower Upper

228 100

226 17.3 19.8 29.8#

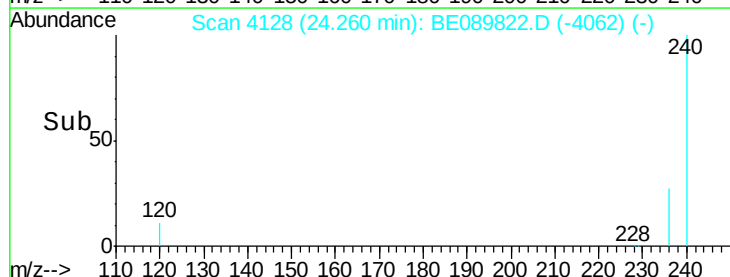
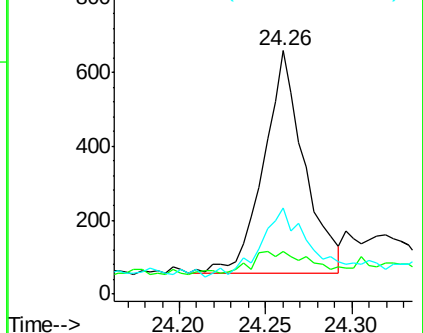
229 35.5 16.3 24.5#

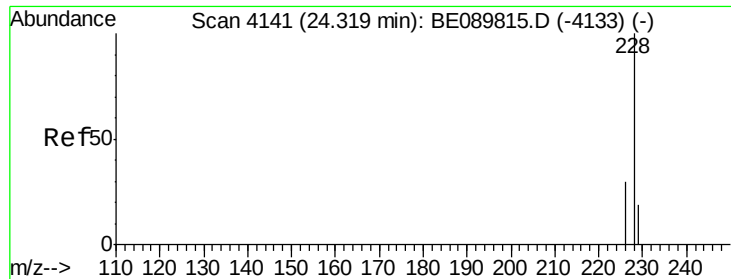


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.01 ng

RT: 24.26 min Scan# 4128

Delta R.T. -0.06 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

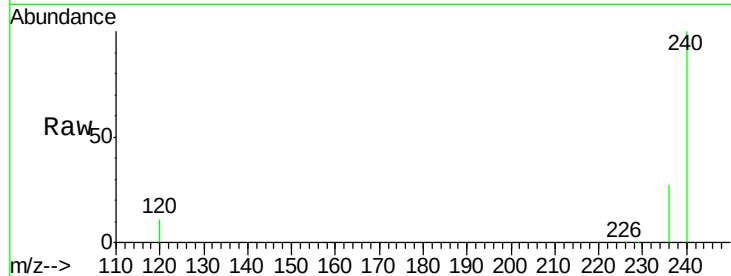
Tgt Ion: 228 Resp: 991

Ion Ratio Lower Upper

228 100

226 17.3 23.0 34.4#

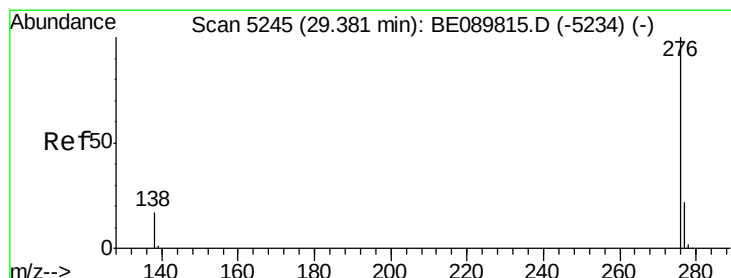
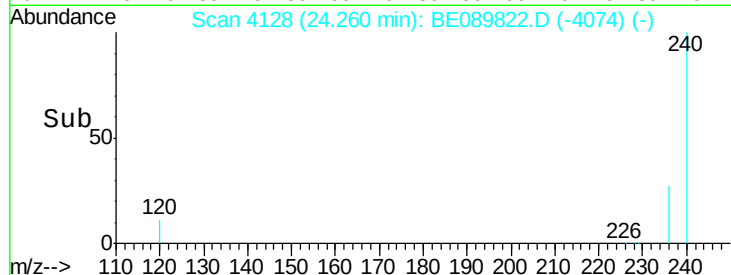
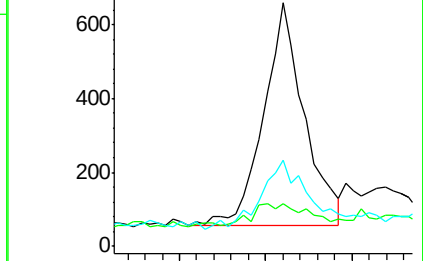
229 35.5 15.8 23.6#



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# 5247

Delta R.T. 0.01 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

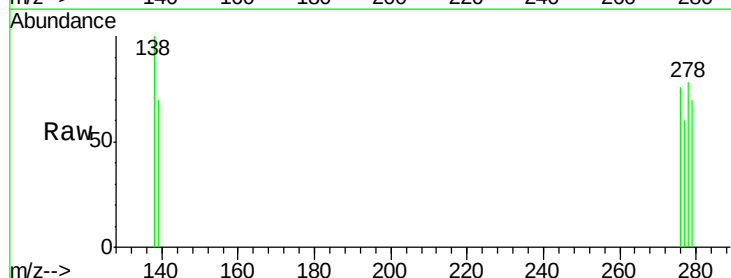
Tgt Ion: 276 Resp: 17

Ion Ratio Lower Upper

276 100

138 111.8 4.3 6.5#

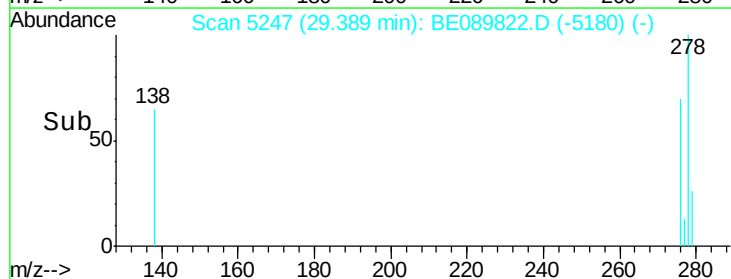
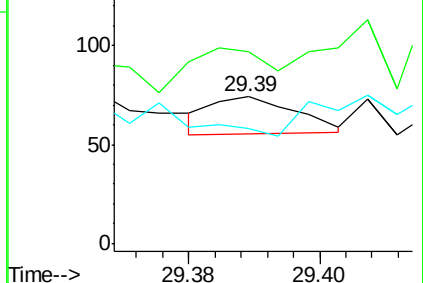
277 0.0 9.0 13.4#

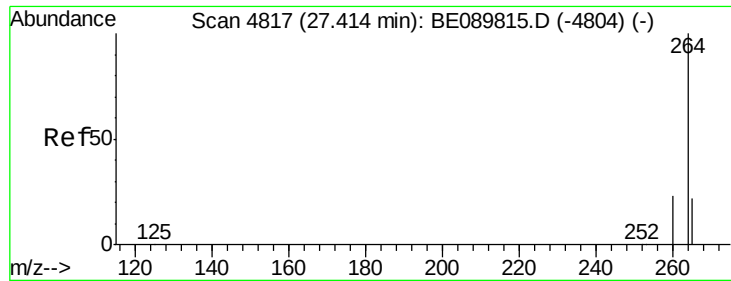


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

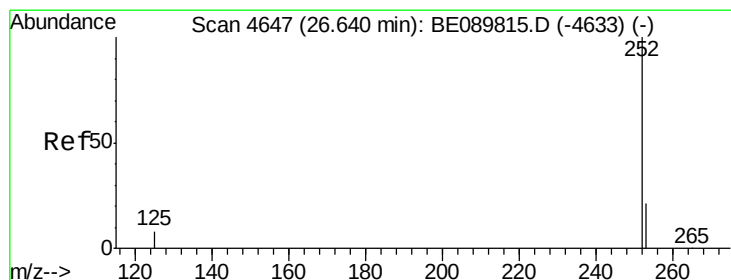
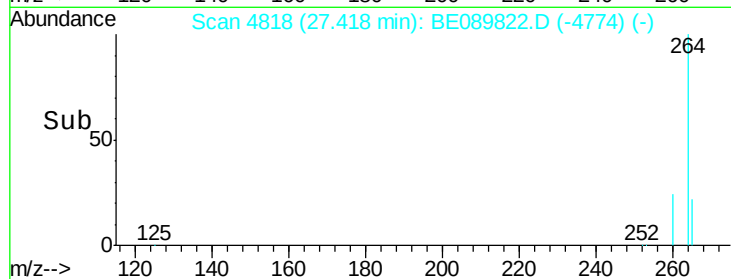
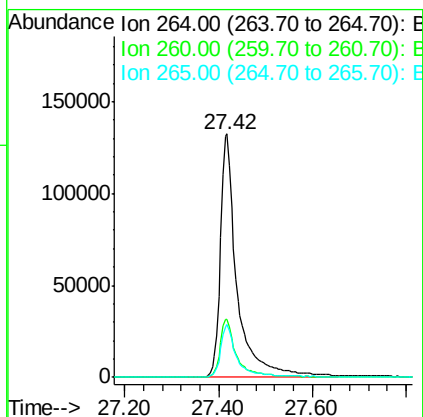
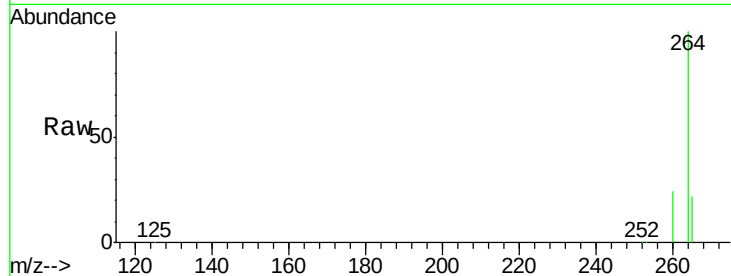




#25
Perylene-d12
 Concen: 5.00 ng
 RT: 27.42 min Scan# 4818
 Delta R.T. 0.00 min
 Lab File: BE089822.D
 Acq: 24 Mar 2015 20:14

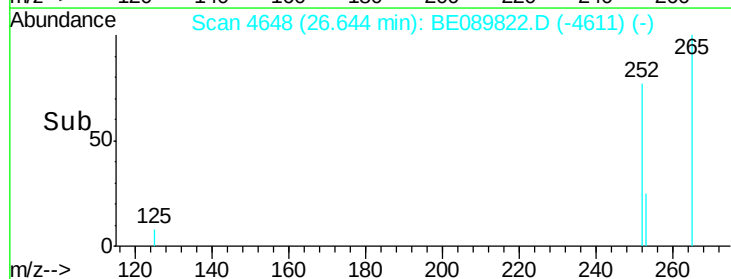
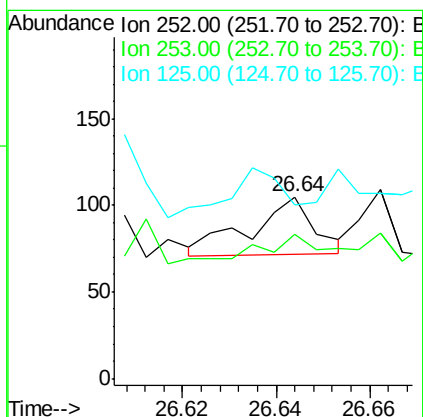
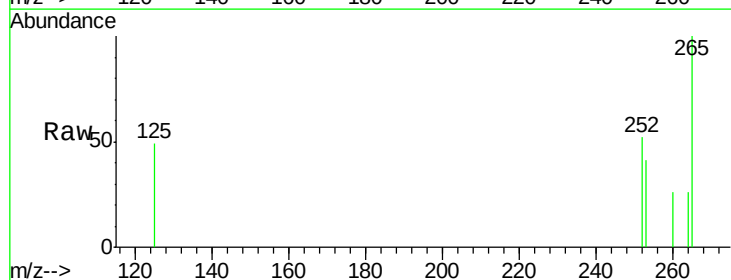
Instrument :
 BNA_E
 ClientSampleId :
 PB82216BL

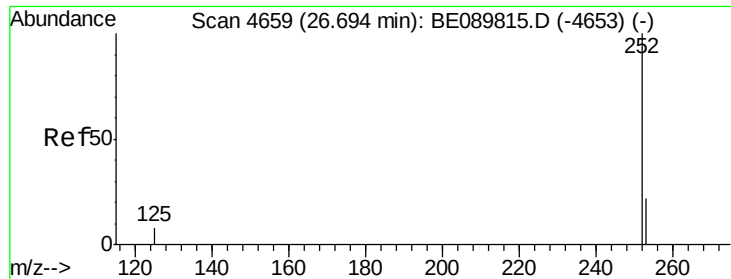
Tgt Ion: 264 Resp: 329178
 Ion Ratio Lower Upper
 264 100
 260 23.9 18.2 27.2
 265 21.7 17.3 25.9



#26
Benzo(b)fluoranthene
 Concen: 0.31 ng
 RT: 26.64 min Scan# 4648
 Delta R.T. 0.01 min
 Lab File: BE089822.D
 Acq: 24 Mar 2015 20:14

Tgt Ion: 252 Resp: 31
 Ion Ratio Lower Upper
 252 100
 253 79.0 17.8 26.6#
 125 95.2 8.7 13.1#

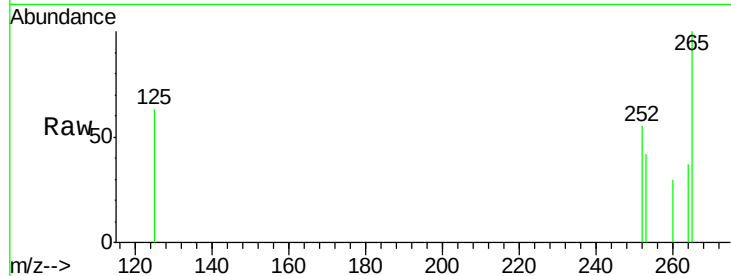




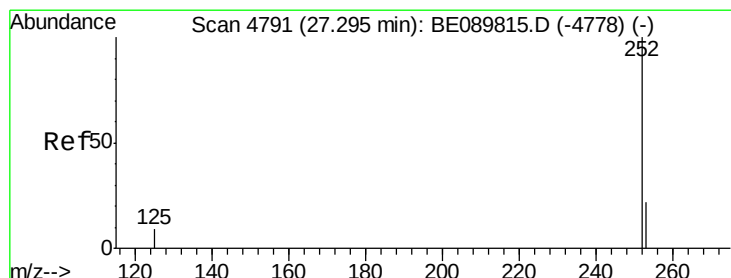
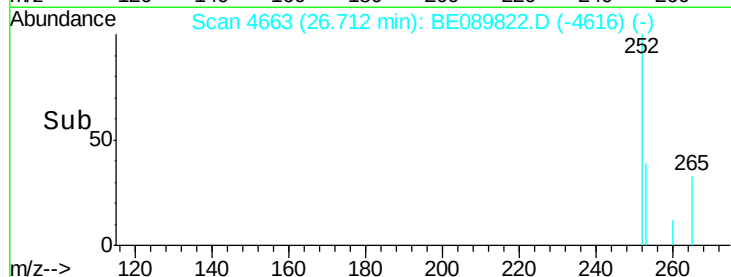
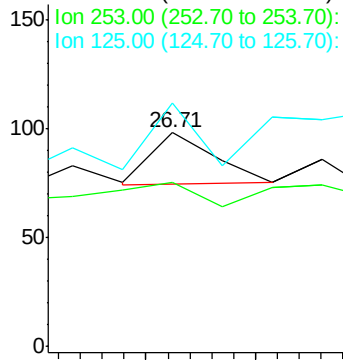
#27
Benzo(k)fluoranthene
Concen: 0.00 ng
RT: 26.71 min Scan# 4663
Delta R.T. 0.01 min
Lab File: BE089822.D
Acq: 24 Mar 2015 20:14

Instrument :
BNA_E
ClientSampleId :
PB82216BL

Tgt Ion: 252 Resp: 10
Ion Ratio Lower Upper
252 100
253 76.5 18.6 28.0#
125 114.3 10.8 16.2#

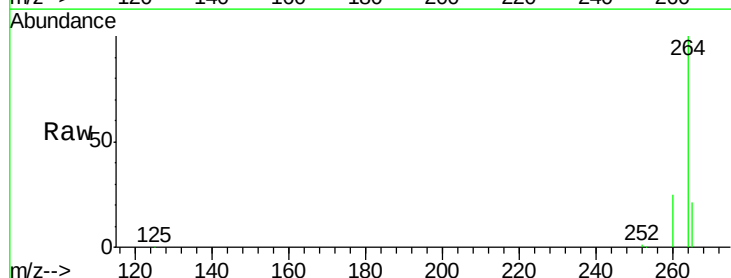


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

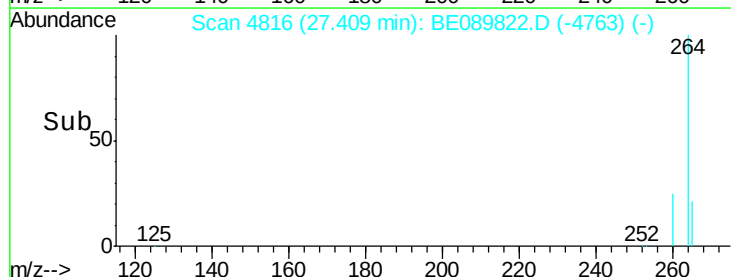
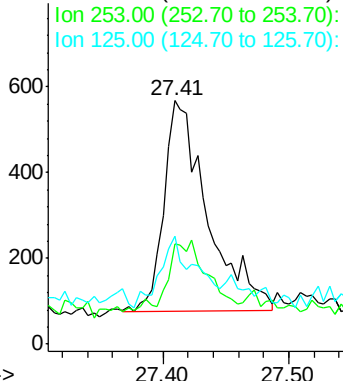


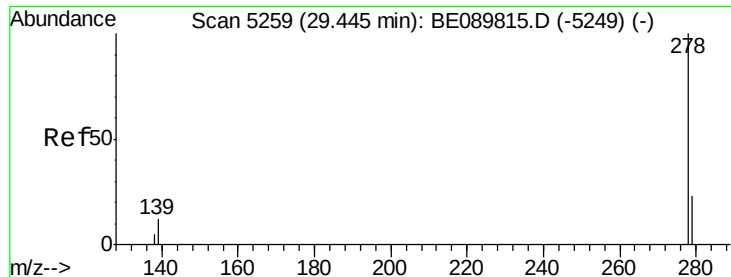
#28
Benzo(a)pyrene
Concen: 0.31 ng
RT: 27.41 min Scan# 4816
Delta R.T. 0.11 min
Lab File: BE089822.D
Acq: 24 Mar 2015 20:14

Tgt Ion: 252 Resp: 1189
Ion Ratio Lower Upper
252 100
253 41.0 21.0 31.4#
125 44.2 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: BE089822.D

Acq: 24 Mar 2015 20:14

Instrument :

BNA_E

ClientSampleId :

PB82216BL

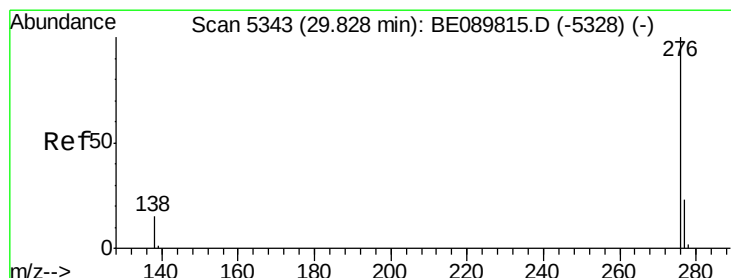
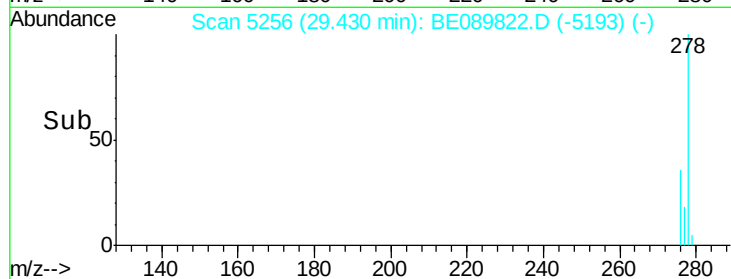
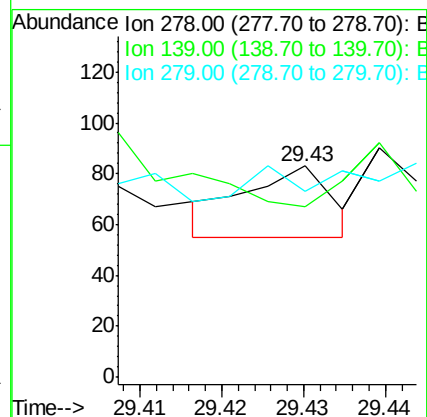
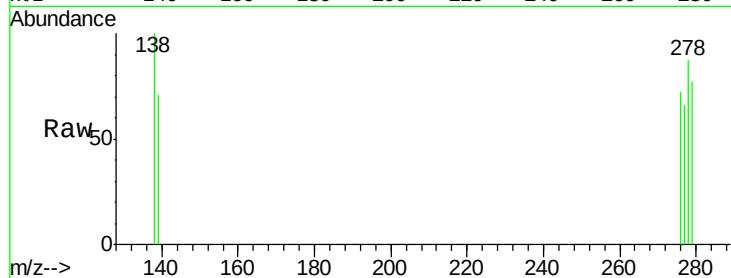
Tgt Ion: 278 Resp: 21

Ion Ratio Lower Upper

278 100

139 80.7 20.0 30.0#

279 88.0 28.9 43.3#



#30

Benzo(g,h,i)perylene

Concen: 0.25 ng

RT: 29.84 min Scan# 5346

Delta R.T. 0.02 min

Lab File: BE089822.D

Acq: 24 Mar 2015 20:14

Tgt Ion: 276 Resp: 24

Ion Ratio Lower Upper

276 100

277 74.7 19.2 28.8#

138 99.0 22.9 34.3#

