

Data Path : Z:\HPCHEM1\BNA E\DATA\BE081215\
 Data File : BE090496.D
 Acq On : 13 Aug 2015 8:36
 Operator : UM/IZ
 Sample : G3248-09
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Aug 13 10:50:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 06 12:28:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	21933	5.00	ng	0.00
6) Naphthalene-d8	10.33	136	100793	5.00	ng	0.00
12) Acenaphthene-d10	14.19	164	57542	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	129224	5.00	ng	0.00
25) Chrysene-d12	21.09	240	144092	5.00	ng	0.00
32) Perylene-d12	23.40	264	143915	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	13709	4.17	ng	0.00
5) Phenol-d6	6.77	99	21384	3.15	ng	0.00
7) Nitrobenzene-d5	8.72	82	14040	1.84	ng	-0.01
13) 2,4,6-Tribromophenol	15.69	330	6115	4.44	ng	-0.02
14) 2-Fluorobiphenyl	12.81	172	27933	1.76	ng	0.00
27) Terphenyl-d14	19.55	244	23072	1.09	ng	-0.01

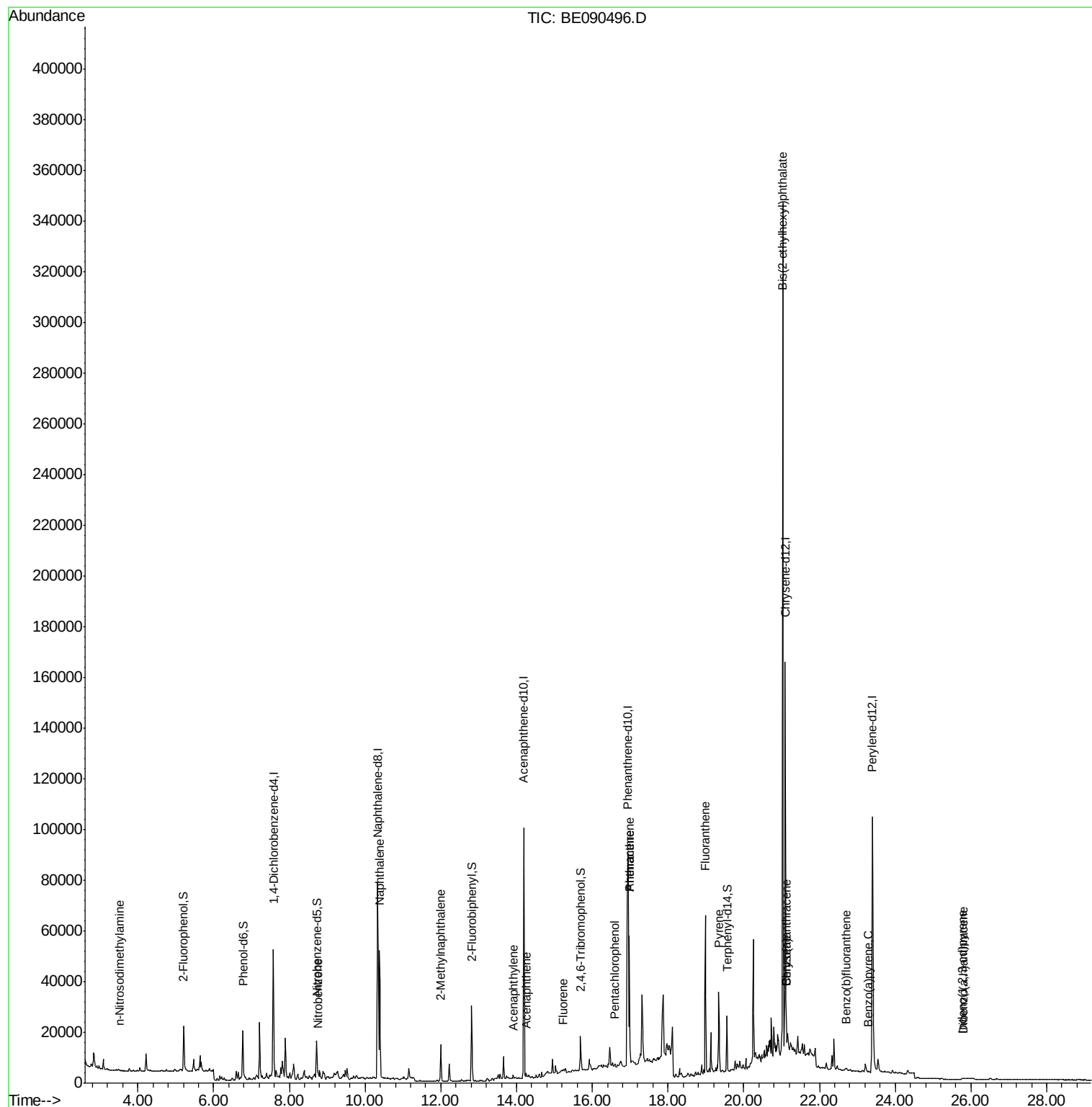
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.32	88	65	Below Cal	#	15
3) n-Nitrosodimethylamine	3.54	42	89	0.03	ng	# 10
8) Nitrobenzene	8.76	77	1176	0.34	ng	# 46
9) Naphthalene	10.38	128	66906	3.01	ng	99
10) Hexachlorobutadiene	10.69	225	2	Below Cal	#	51
11) 2-Methylnaphthalene	12.00	142	10227	0.79	ng	97
15) Acenaphthylene	13.91	152	2043	0.02	ng	# 77
16) Acenaphthene	14.26	154	358	0.02	ng	# 59
17) Fluorene	15.24	166	716	0.04	ng	# 83
21) Pentachlorophenol	16.60	266	457	0.62	ng	97
22) Phenanthrene	16.98	178	53395	1.65	ng	98
23) Anthracene	16.98	178	52935	1.99	ng	99
24) Fluoranthene	18.98	202	53943	1.69	ng	# 89
26) Pyrene	19.34	202	27704	0.89	ng	96
28) Benzo(a)anthracene	21.13	228	5894	0.18	ng	# 47
29) Chrysene	21.13	228	6007	0.16	ng	# 50
30) Bis(2-ethylhexyl)phthalate	21.03	149	316575	15.23	ng	100
31) Indeno(1,2,3-cd)pyrene	25.77	276	582	0.27	ng	# 76
33) Benzo(b)fluoranthene	22.70	252	602	0.21	ng	# 1
35) Benzo(a)pyrene	23.30	252	349	0.24	ng	# 1
36) Dibenzo(a,h)anthracene	25.79	278	467	0.30	ng	# 1

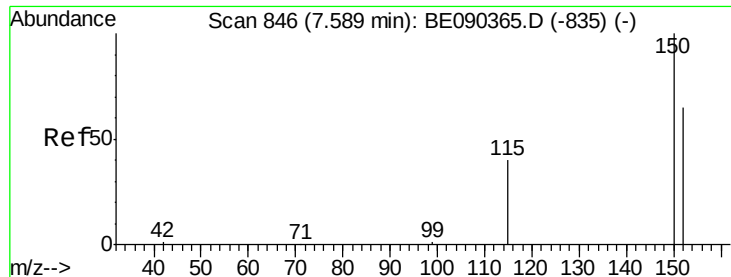
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: Aug 13 10:50:41 2015
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 06 12:28:08 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampled :

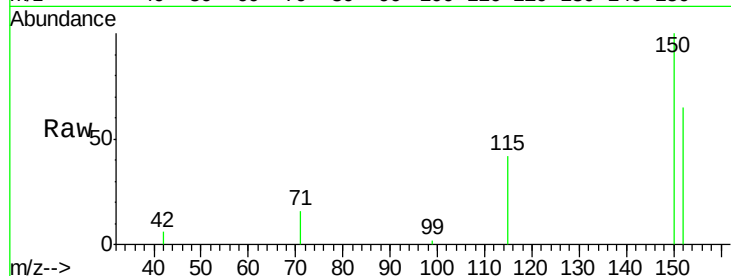
Tot Ion:152 Resp: 21933

Ion Ratio Lower Upper

152 100

150 153.0 123.0 184.4

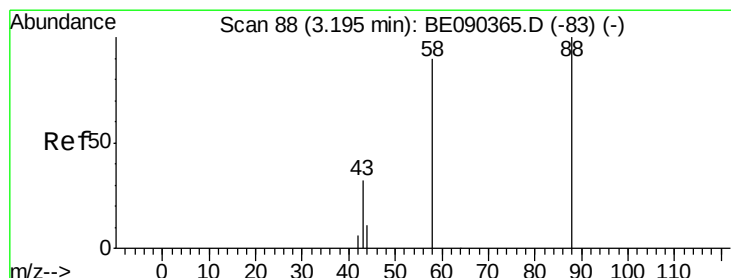
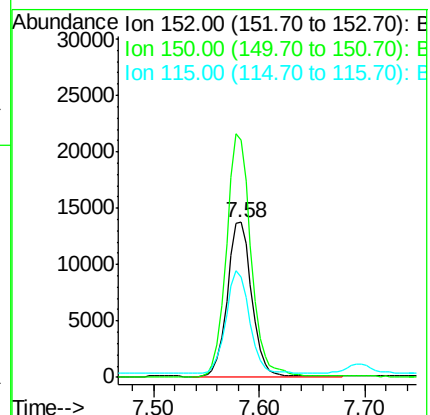
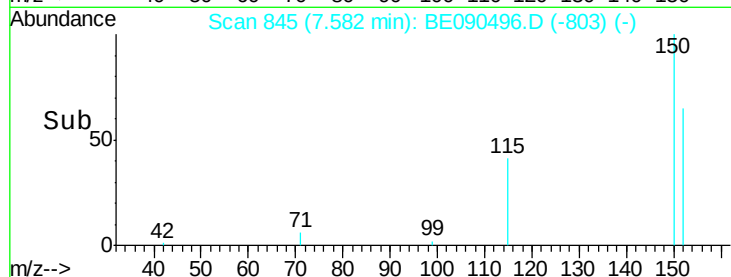
115 64.7 48.9 73.3



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: 3.32 min Scan# 106

Delta R.T. 0.12 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

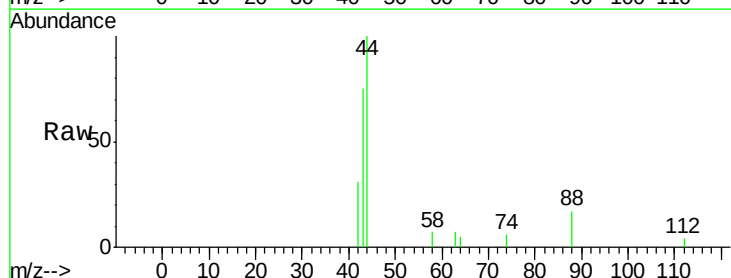
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

58 0.0 70.0 105.0#

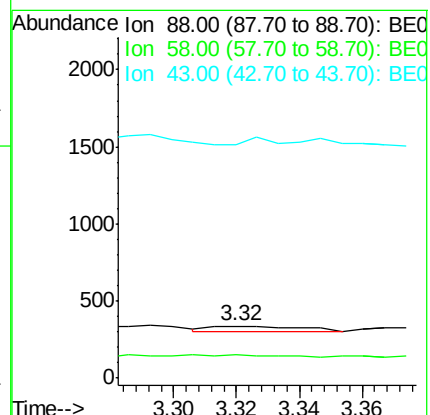
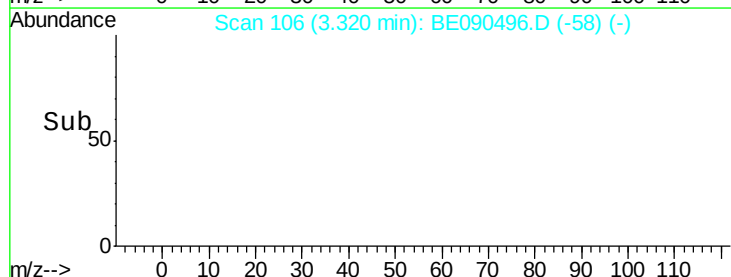
43 0.0 28.4 42.6#

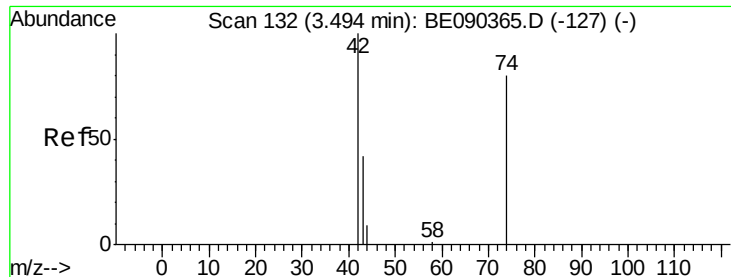


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



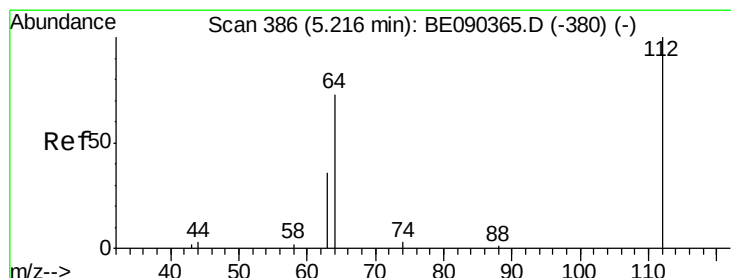
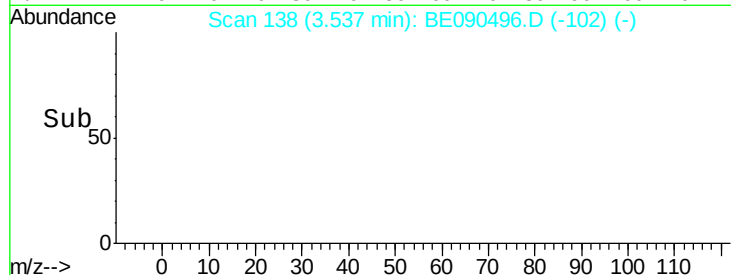
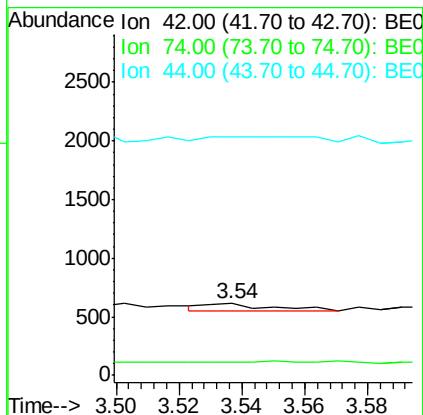
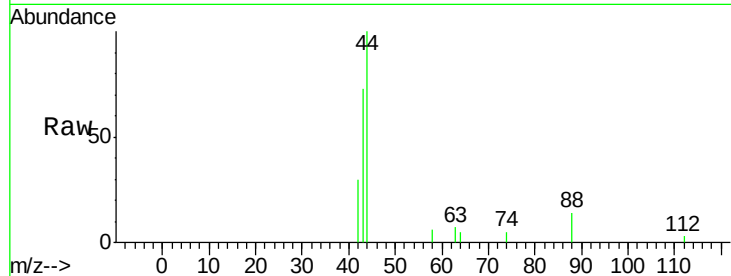


#3

n-Nitrosodimethylamine
 Concen: 0.03 ng
 RT: 3.54 min Scan# 138
 Delta R.T. 0.04 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

Instrument :
 BNA_E
 ClientSampled :

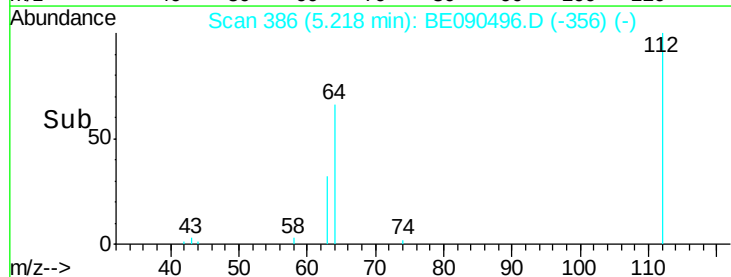
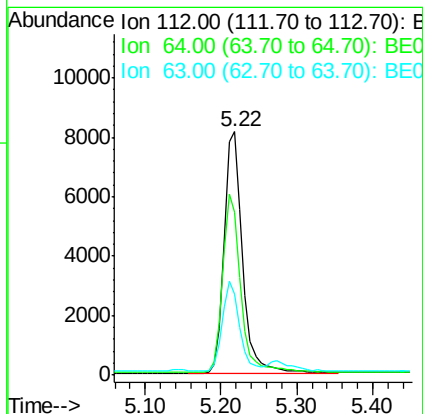
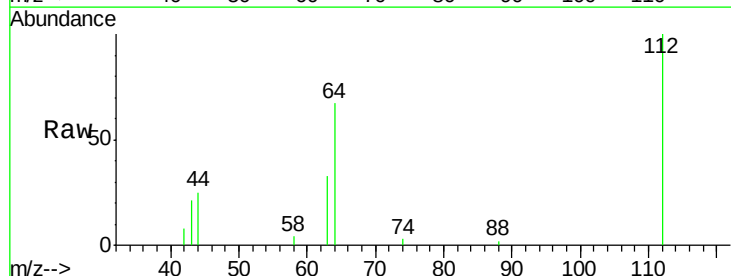
Tot Ion: 42 Resp: 89
 Ion Ratio Lower Upper
 42 100
 74 0.0 75.2 112.8#
 44 0.0 8.7 13.1#

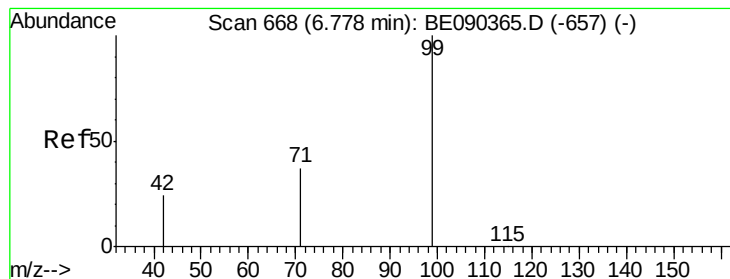


#4

2-Fluorophenol
 Concen: 4.17 ng
 RT: 5.22 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

Tgt Ion: 112 Resp: 13709
 Ion Ratio Lower Upper
 112 100
 64 72.8 37.1 55.7#
 63 34.9 19.5 29.3#





#5

Phenol-d6

Concen: 3.15 ng

RT: 6.77 min Scan# 667

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampleId :

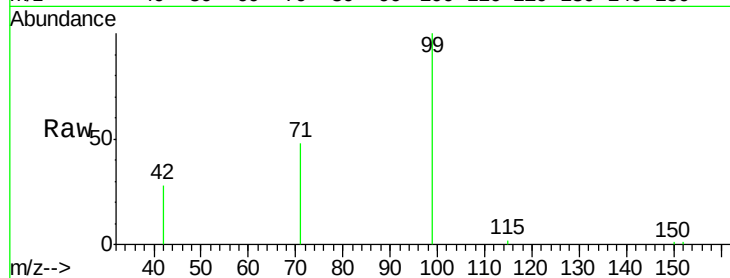
Tot Ion: 99 Resp: 21384

Ion Ratio Lower Upper

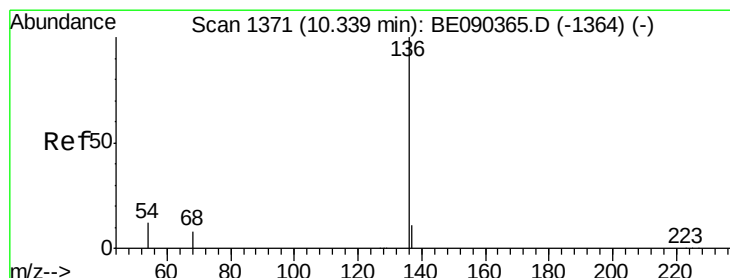
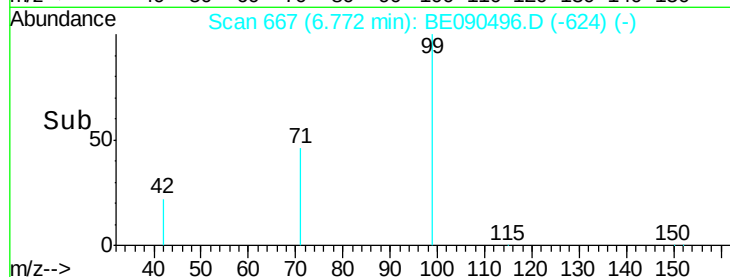
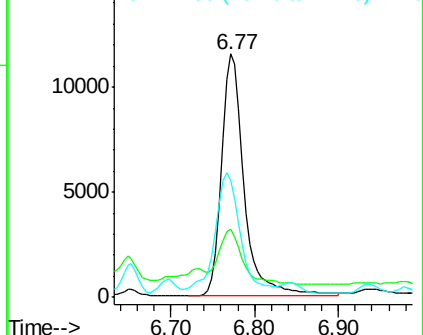
99 100

42 24.2 18.2 27.4

71 55.8 27.4 41.0#



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.33 min Scan# 1370

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Tgt Ion: 136 Resp: 100793

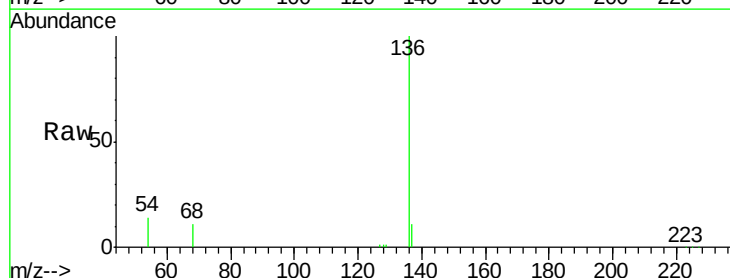
Ion Ratio Lower Upper

136 100

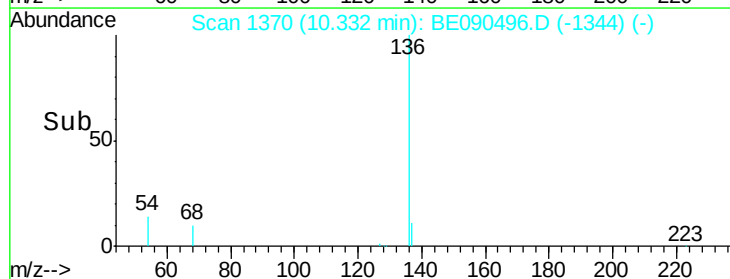
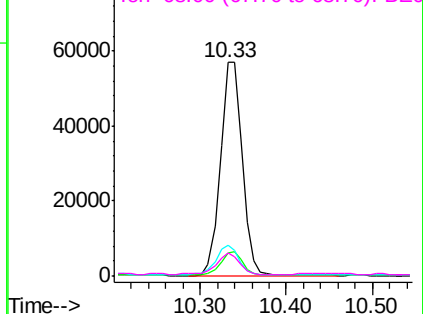
137 11.1 8.7 13.1

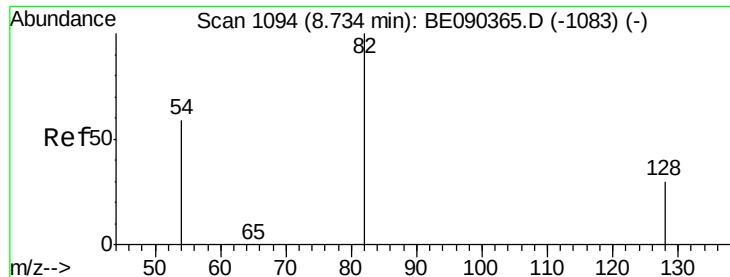
54 14.5 9.4 14.0#

68 10.6 6.5 9.7#



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
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 1.84 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampleId :

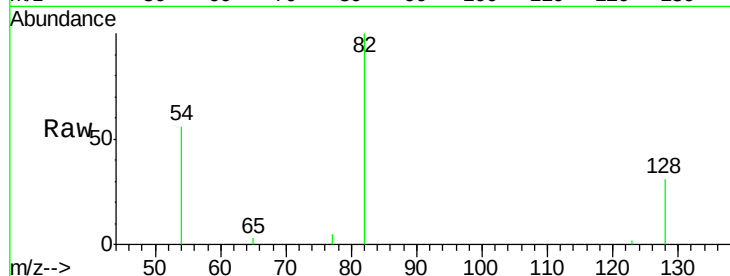
Tot Ion: 82 Resp: 14040

Ion Ratio Lower Upper

82 100

128 31.0 25.0 37.6

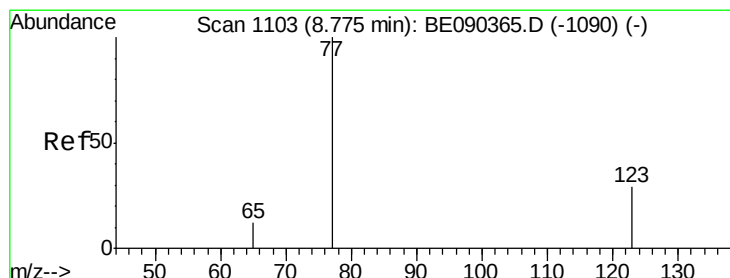
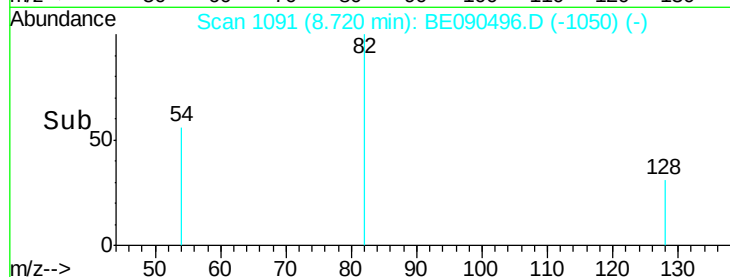
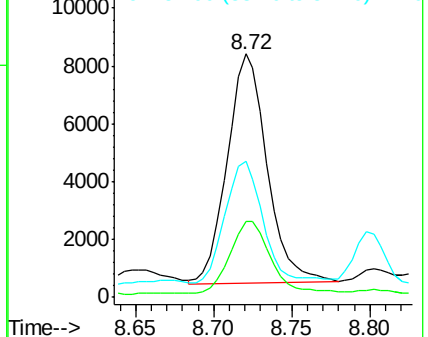
54 56.0 48.8 73.2



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

Nitrobenzene

Concen: 0.34 ng

RT: 8.76 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

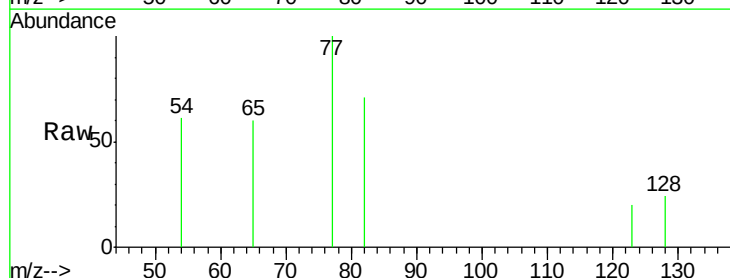
Tgt Ion: 77 Resp: 1176

Ion Ratio Lower Upper

77 100

123 19.2 25.1 37.7#

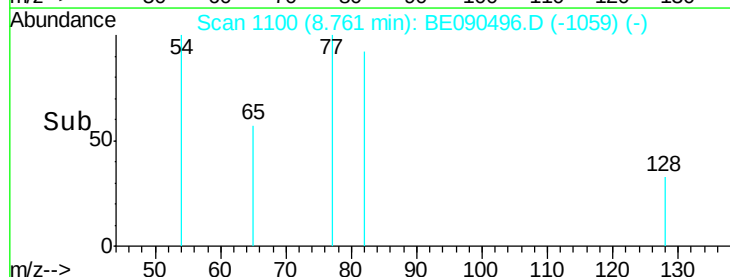
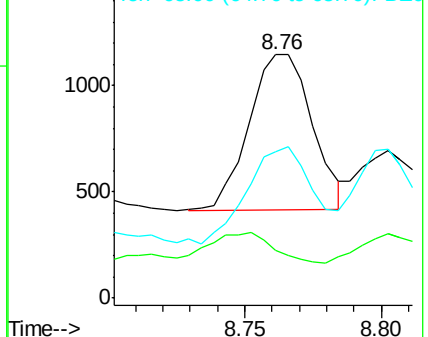
65 66.3 9.3 13.9#

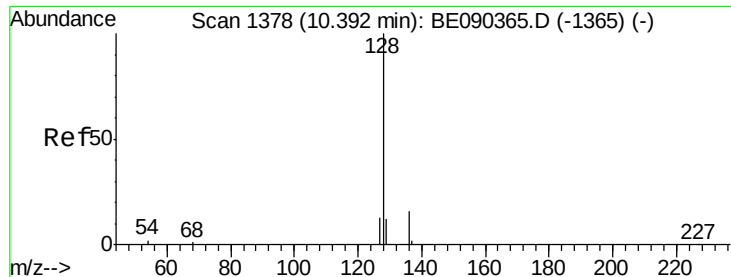


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#9

Naphthalene

Concen: 3.01 ng

RT: 10.38 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampleId :

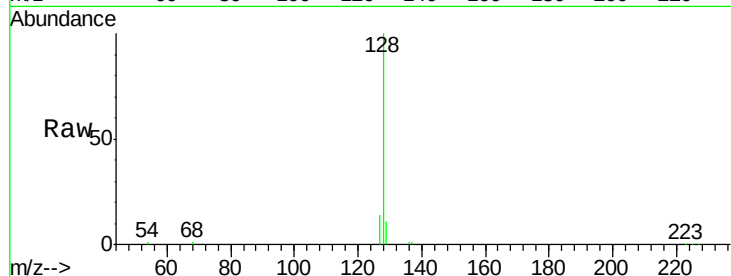
Tot Ion:128 Resp: 66906

Ion Ratio Lower Upper

128 100

129 11.4 9.8 14.6

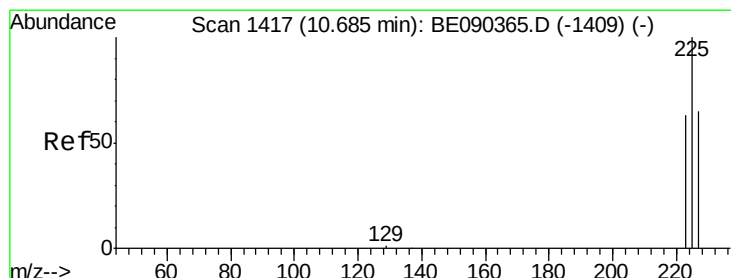
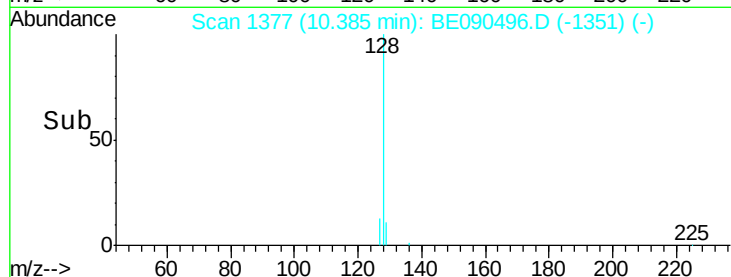
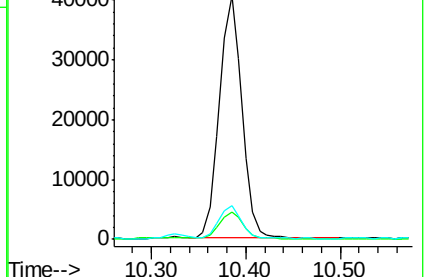
127 13.6 10.6 16.0



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

Hexachlorobutadiene

Concen: Below Cal

RT: 10.69 min Scan# 1418

Delta R.T. 0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

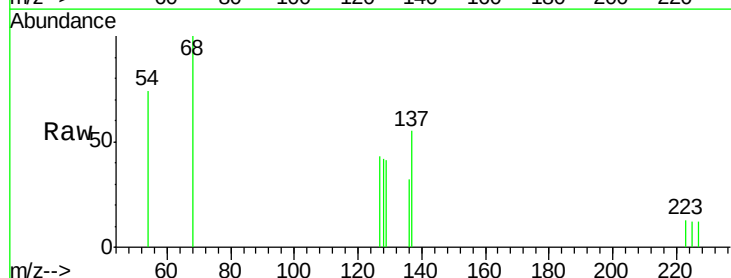
Tgt Ion:225 Resp: 2

Ion Ratio Lower Upper

225 100

223 0.0 50.6 75.8#

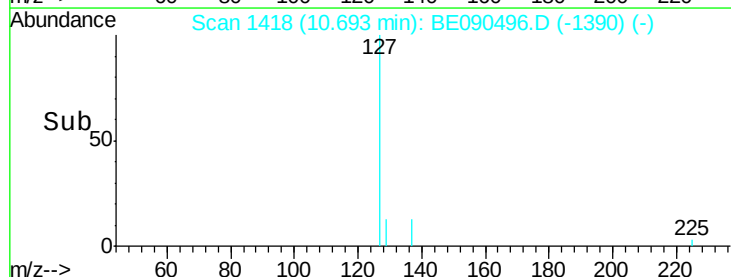
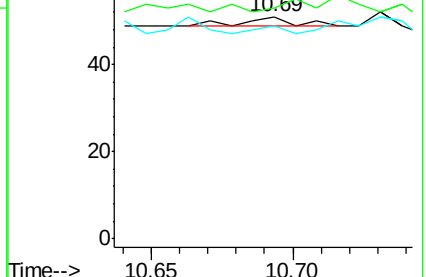
227 50.0 50.7 76.1#

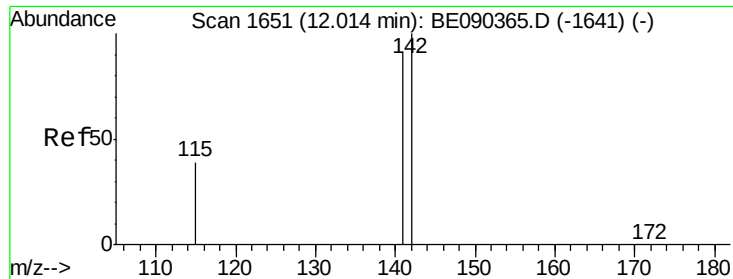


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

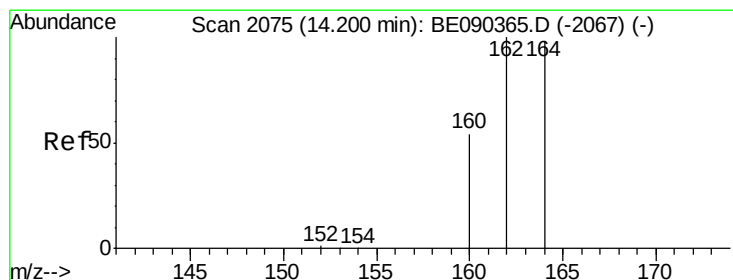
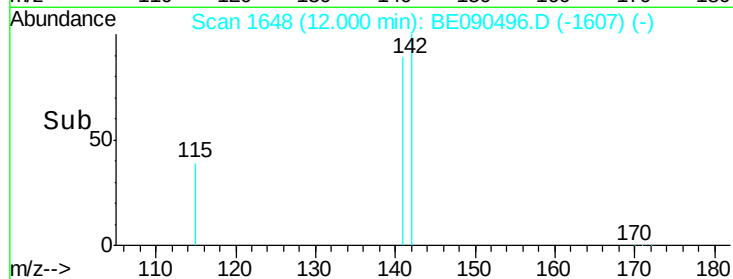
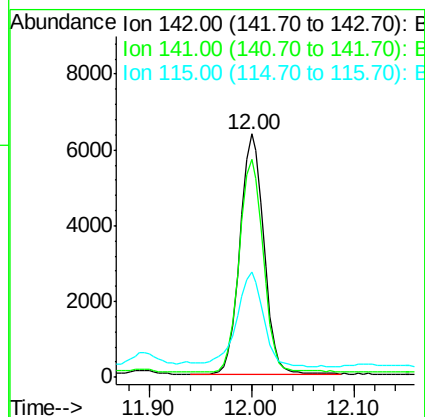
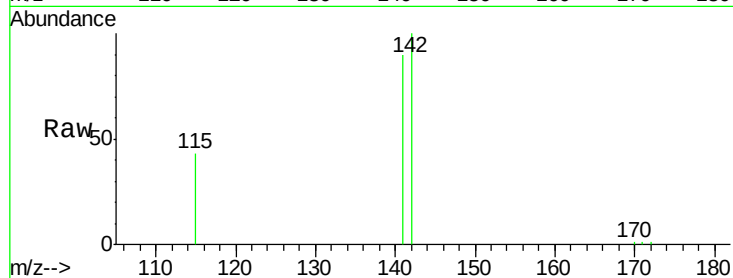




#11
2-Methylnaphthalene
Concen: 0.79 ng
RT: 12.00 min Scan# 1648
Delta R.T. -0.01 min
Lab File: BE090496.D
Acq: 13 Aug 2015 8:36

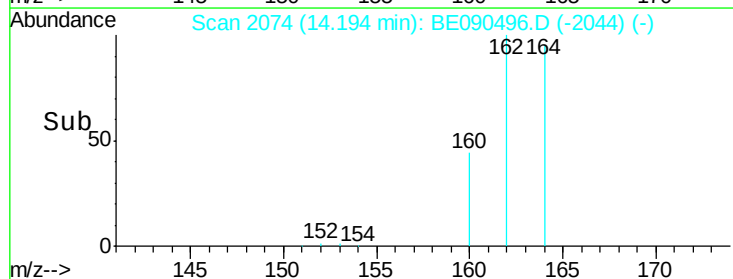
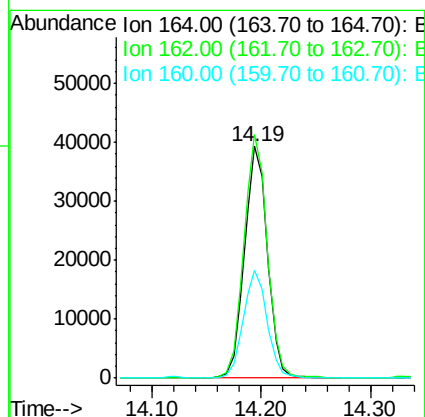
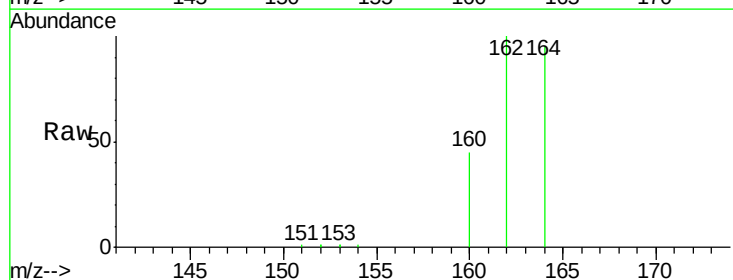
Instrument :
BNA_E
ClientSampleId :

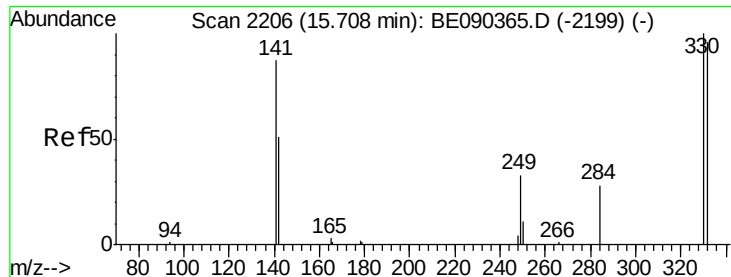
Tot Ion:142 Resp: 10227
Ion Ratio Lower Upper
142 100
141 89.6 72.6 109.0
115 43.4 31.6 47.4



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.19 min Scan# 2074
Delta R.T. -0.01 min
Lab File: BE090496.D
Acq: 13 Aug 2015 8:36

Tgt Ion:164 Resp: 57542
Ion Ratio Lower Upper
164 100
162 104.9 81.8 122.8
160 46.7 44.2 66.4

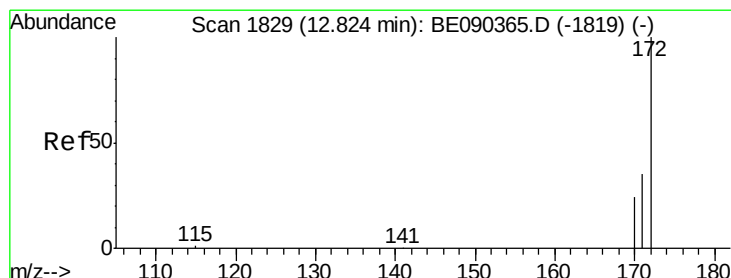
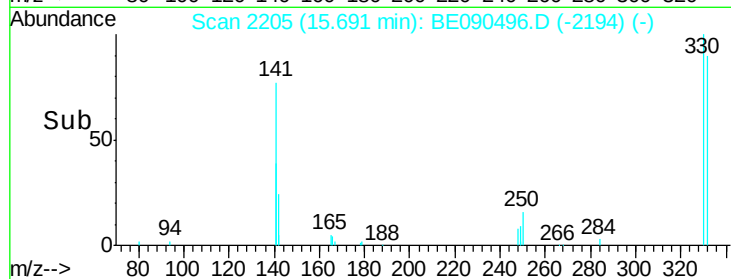
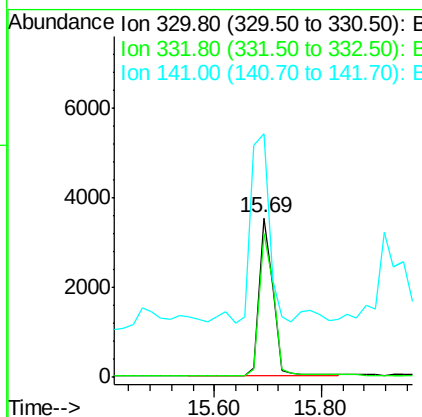
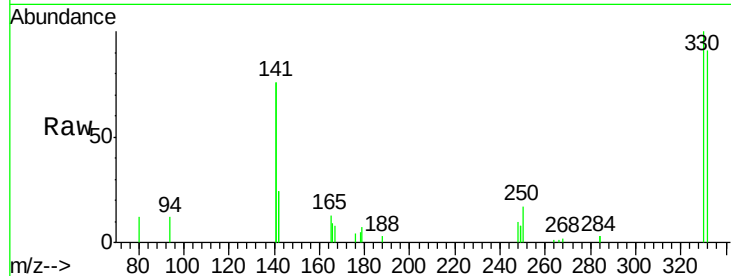




#13
 2,4,6-Tribromophenol
 Concen: 4.44 ng
 RT: 15.69 min Scan# 2205
 Delta R.T. -0.02 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

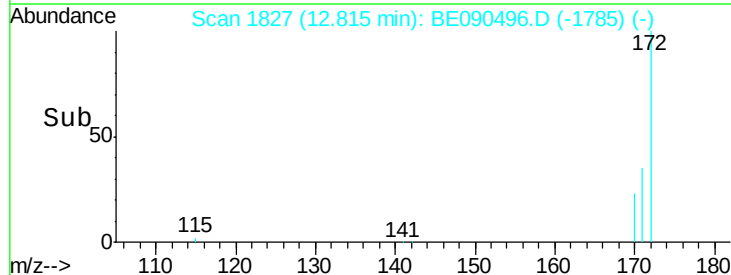
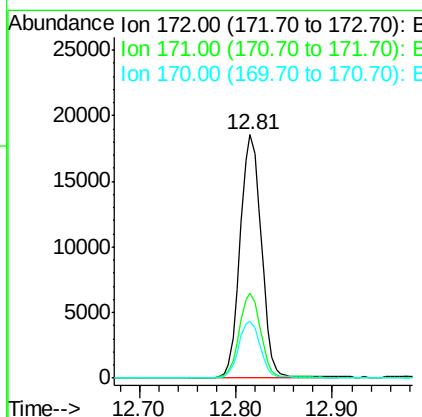
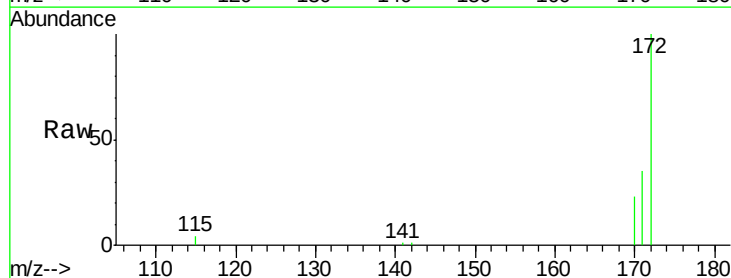
Instrument :
 BNA_E
 ClientSampleId :

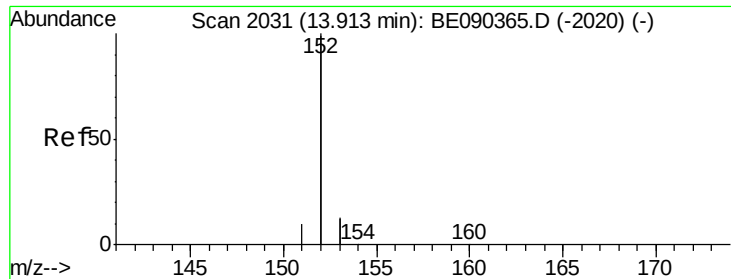
Tot Ion:330 Resp: 6115
 Ion Ratio Lower Upper
 330 100
 332 95.3 75.8 113.6
 141 164.5 114.4 171.6



#14
 2-Fluorobiphenyl
 Concen: 1.76 ng
 RT: 12.81 min Scan# 1827
 Delta R.T. -0.01 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

Tgt Ion:172 Resp: 27933
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.5 42.7
 170 23.5 19.8 29.8





#15

Acenaphthylene

Concen: 0.02 ng

RT: 13.91 min Scan# 2031

Delta R.T. 0.00 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampled :

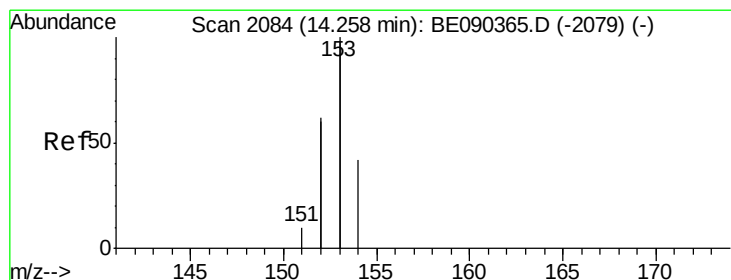
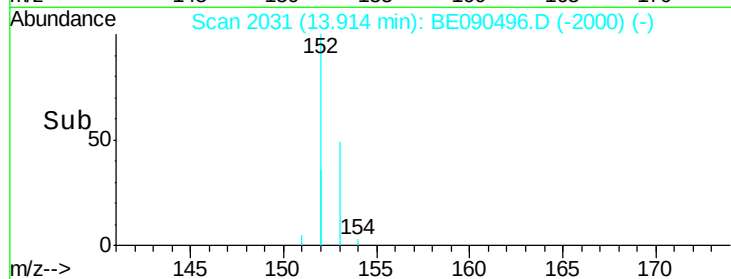
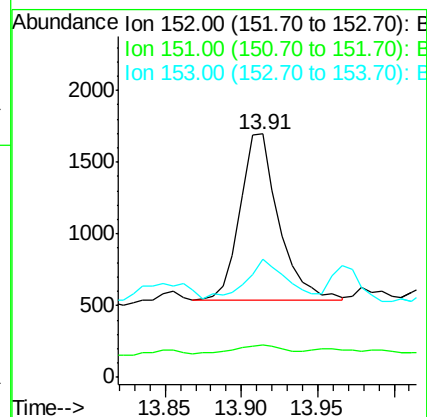
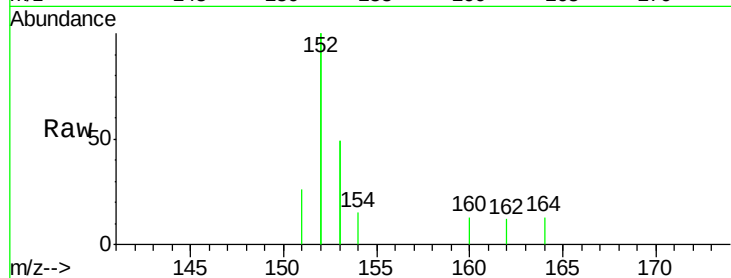
Tot Ion:152 Resp: 2043

Ion Ratio Lower Upper

152 100

151 6.2 3.8 5.8#

153 24.9 10.3 15.5#



#16

Acenaphthene

Concen: 0.02 ng

RT: 14.26 min Scan# 2084

Delta R.T. 0.00 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

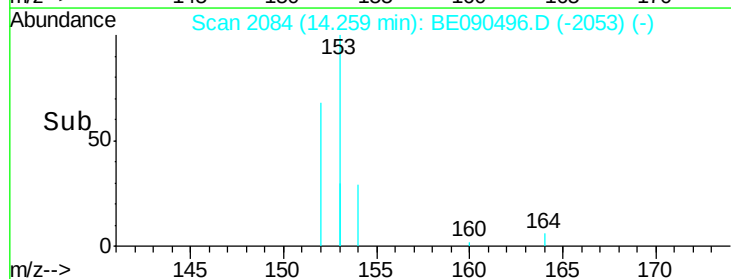
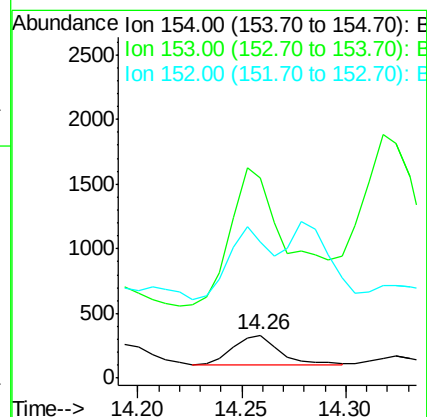
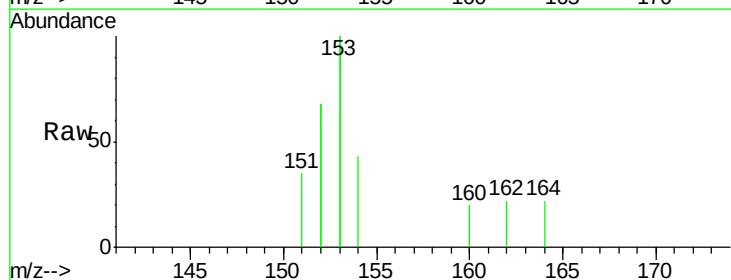
Tgt Ion:154 Resp: 358

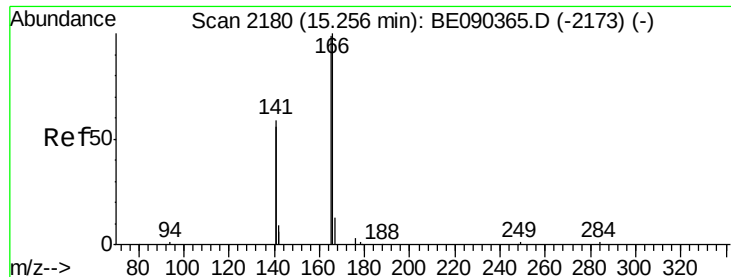
Ion Ratio Lower Upper

154 100

153 574.9 376.2 564.2#

152 211.5 235.0 352.4#

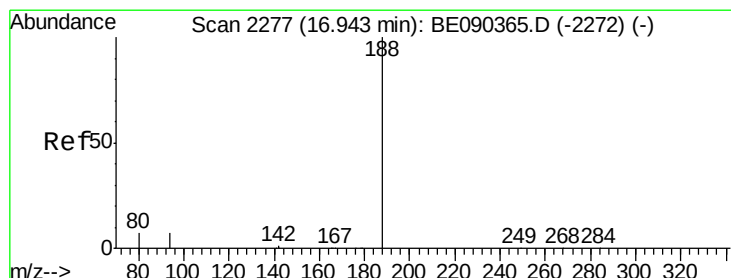
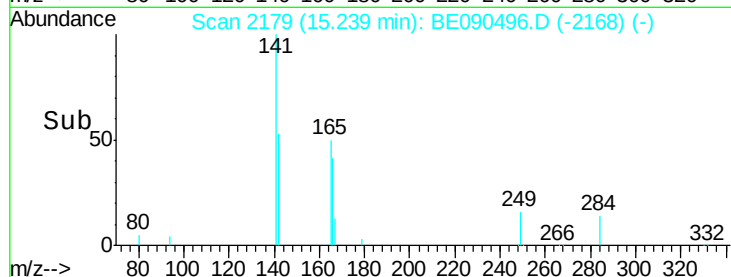
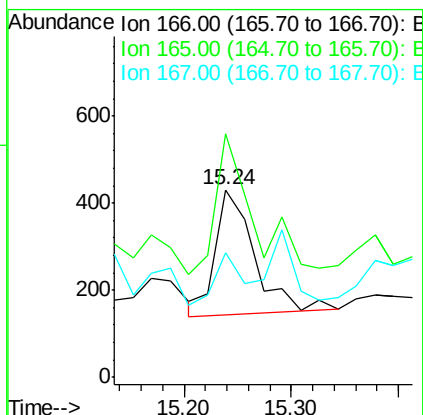
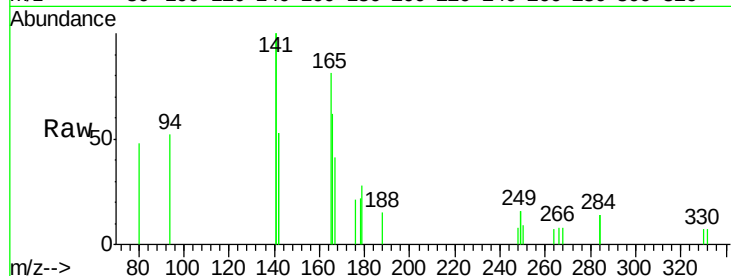




#17
Fluorene
 Concen: 0.04 ng
 RT: 15.24 min Scan# 2179
 Delta R.T. -0.02 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

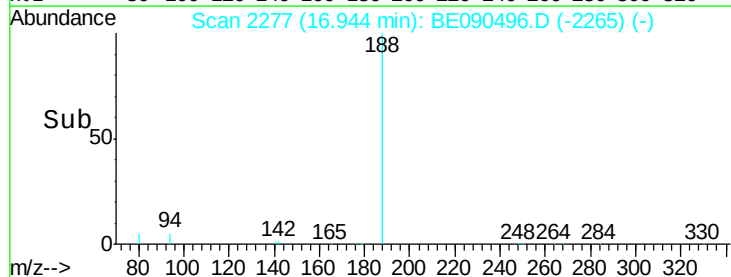
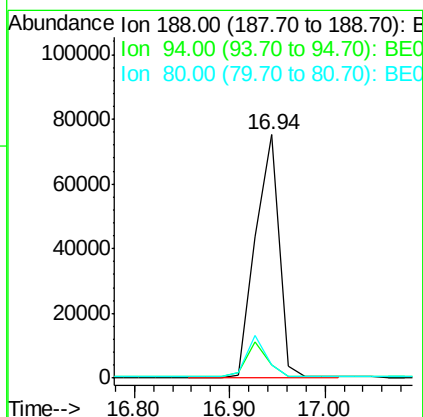
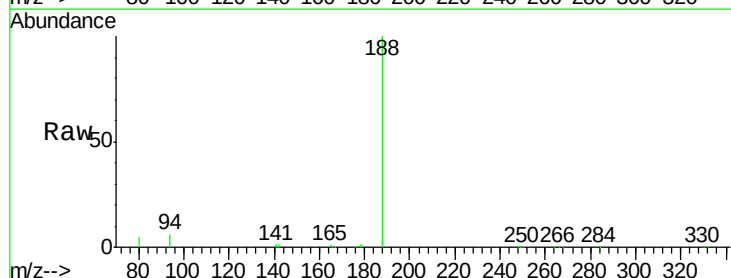
Instrument :
 BNA_E
 ClientSampled :

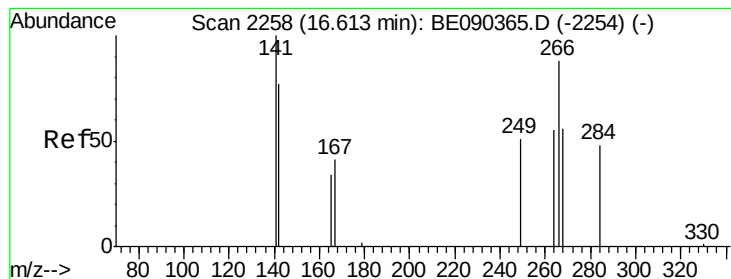
Tot Ion:166 Resp: 716
 Ion Ratio Lower Upper
 166 100
 165 116.5 81.5 122.3
 167 0.0 11.4 17.0#



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.94 min Scan# 2277
 Delta R.T. 0.00 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

Tgt Ion:188 Resp: 129224
 Ion Ratio Lower Upper
 188 100
 94 5.6 5.7 8.5#
 80 5.5 5.8 8.8#





#21

Pentachlorophenol

Concen: 0.62 ng

RT: 16.60 min Scan# 2257

Delta R.T. -0.02 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampleId :

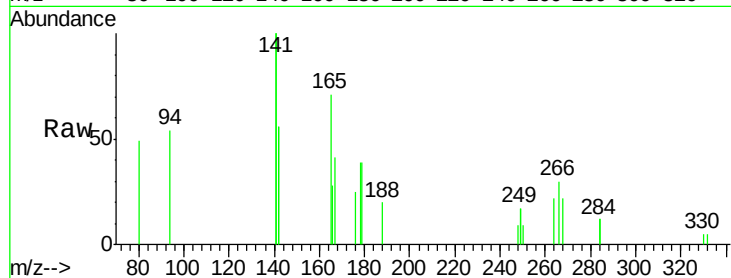
Tot Ion:266 Resp: 457

Ion Ratio Lower Upper

266 100

268 71.6 58.5 87.7

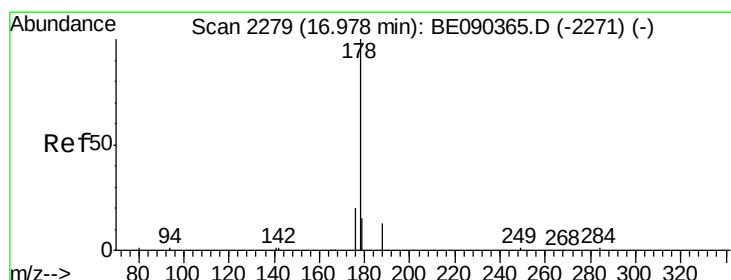
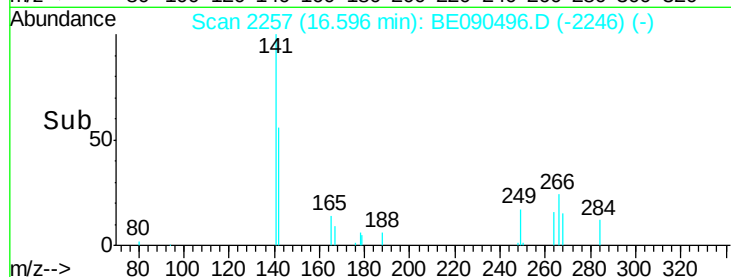
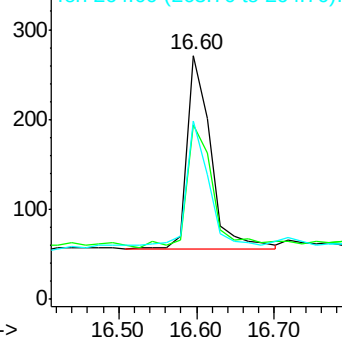
264 73.4 56.0 84.0



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



#22

Phenanthrene

Concen: 1.65 ng

RT: 16.98 min Scan# 2279

Delta R.T. 0.00 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

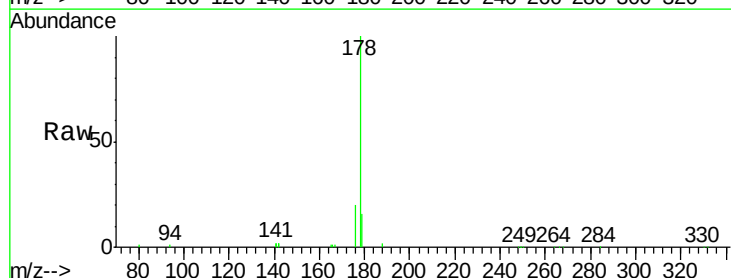
Tgt Ion:178 Resp: 53395

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

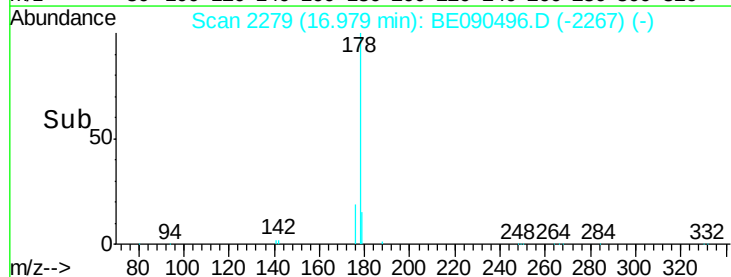
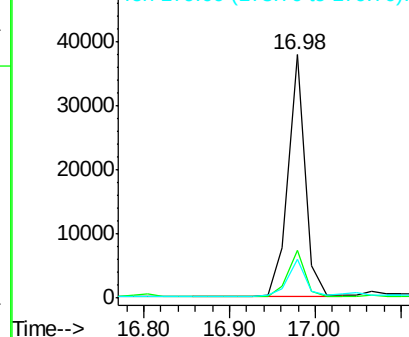
179 16.7 12.5 18.7

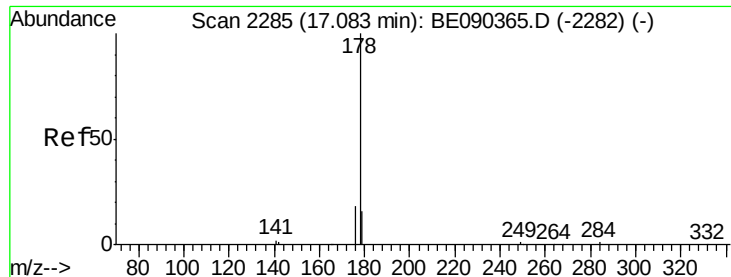


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 1.99 ng

RT: 16.98 min Scan# 2279

Delta R.T. -0.10 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampled :

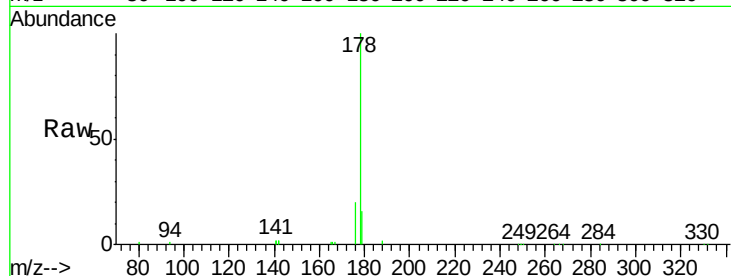
Tot Ion:178 Resp: 52935

Ion Ratio Lower Upper

178 100

176 19.1 14.9 22.3

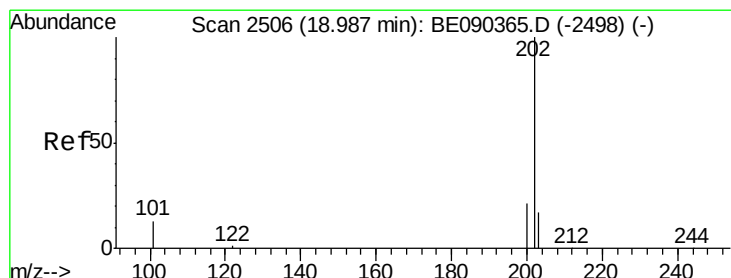
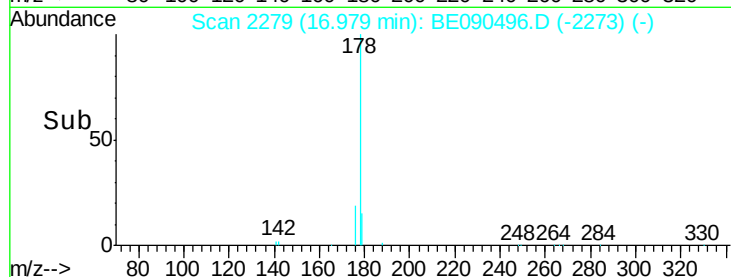
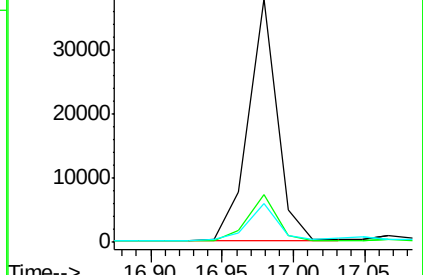
179 16.1 12.2 18.4



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



#24

Fluoranthene

Concen: 1.69 ng

RT: 18.98 min Scan# 2505

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

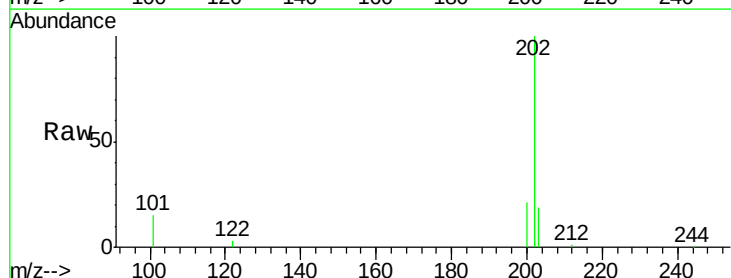
Tgt Ion:202 Resp: 53943

Ion Ratio Lower Upper

202 100

101 22.3 10.3 15.5#

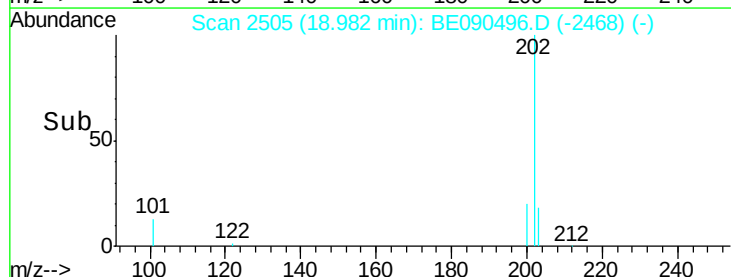
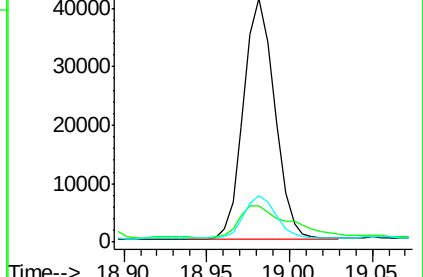
203 17.9 13.7 20.5

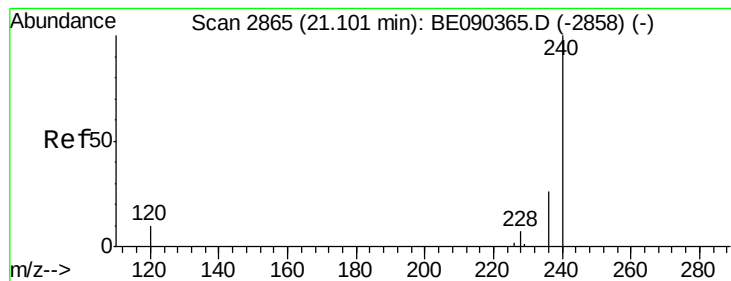


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2864

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampled :

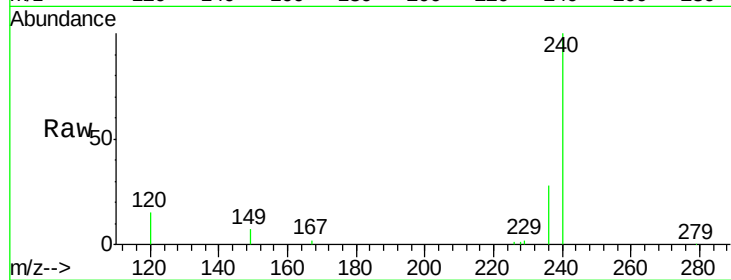
Tot Ion:240 Resp: 144092

Ion Ratio Lower Upper

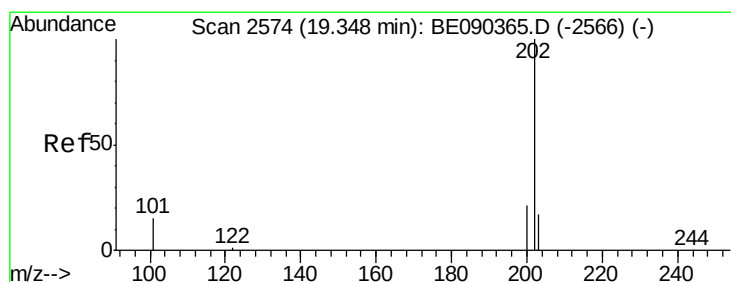
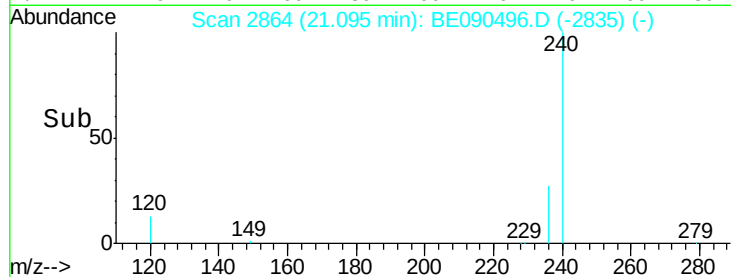
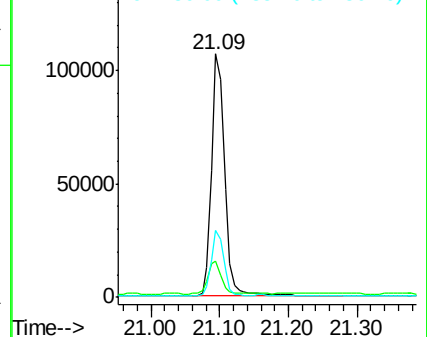
240 100

120 14.7 8.3 12.5#

236 27.6 21.0 31.4



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



#26

Pyrene

Concen: 0.89 ng

RT: 19.34 min Scan# 2573

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

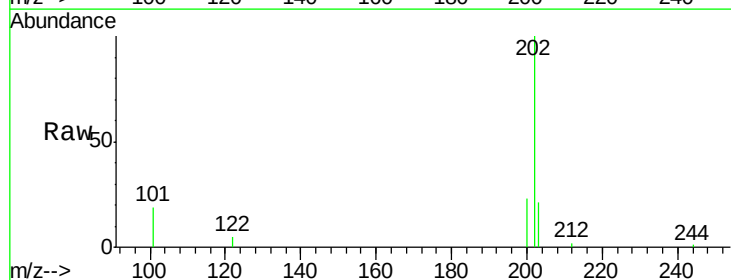
Tgt Ion:202 Resp: 27704

Ion Ratio Lower Upper

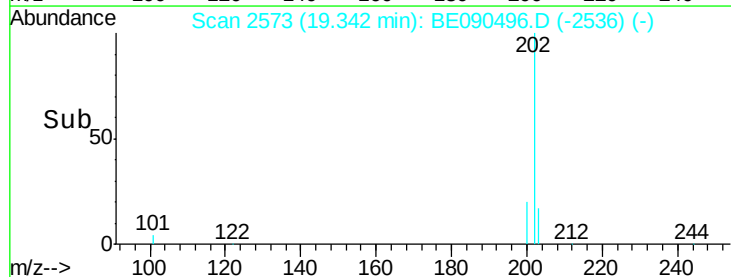
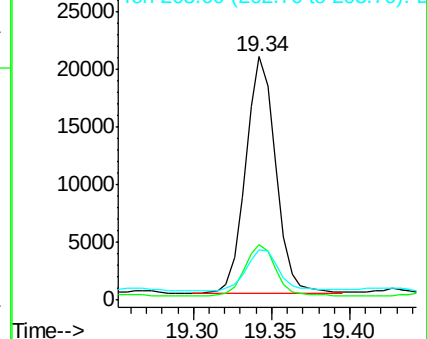
202 100

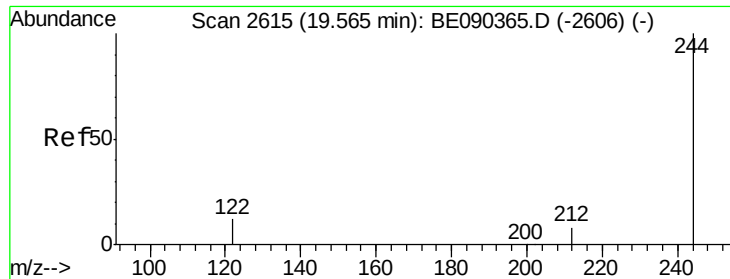
200 22.3 16.7 25.1

203 19.6 13.8 20.8



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

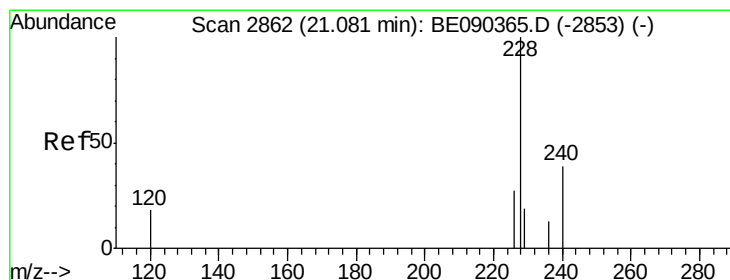
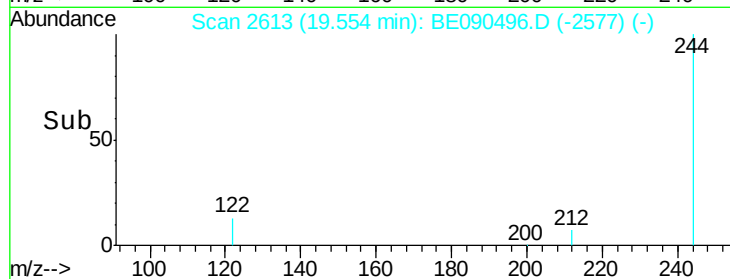
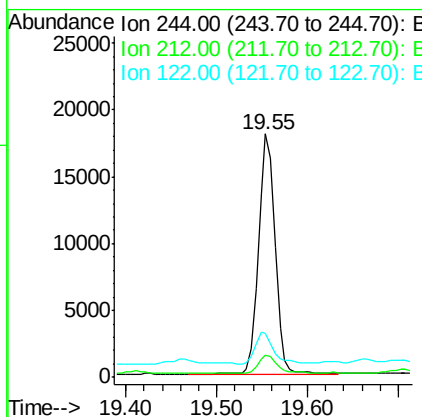
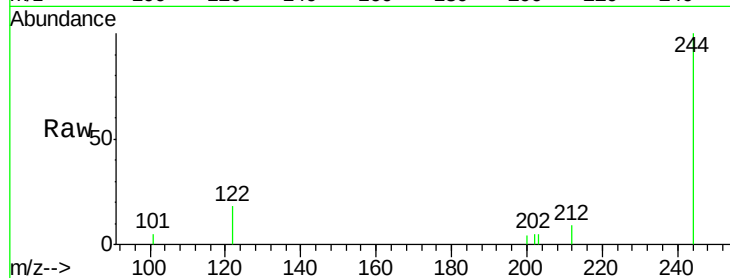




#27
 Terphenyl-d14
 Concen: 1.09 ng
 RT: 19.55 min Scan# 2613
 Delta R.T. -0.01 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

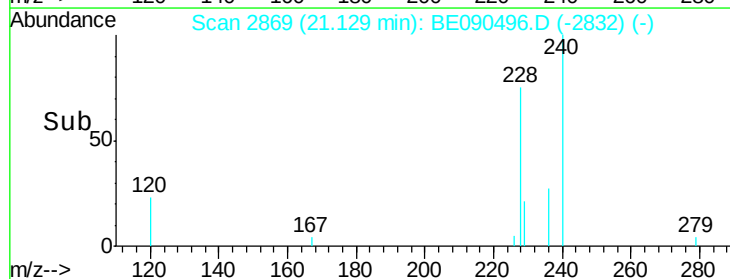
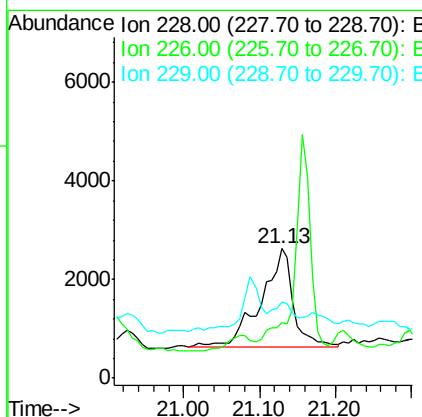
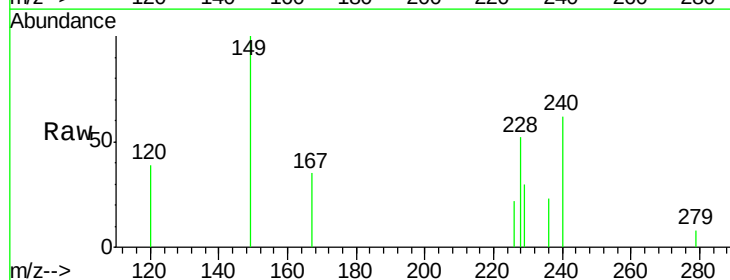
Instrument :
 BNA_E
 ClientSampled :

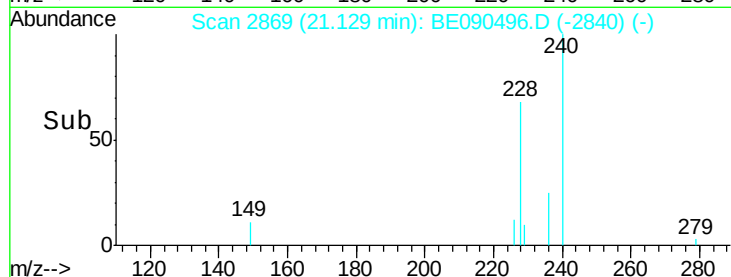
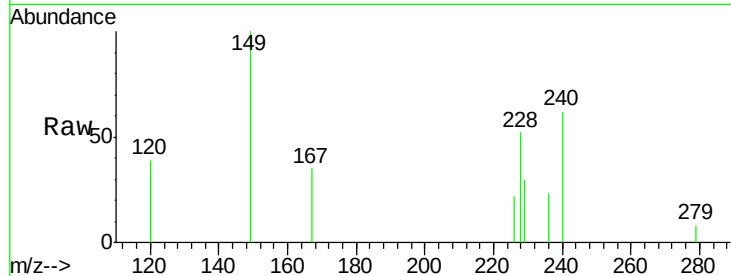
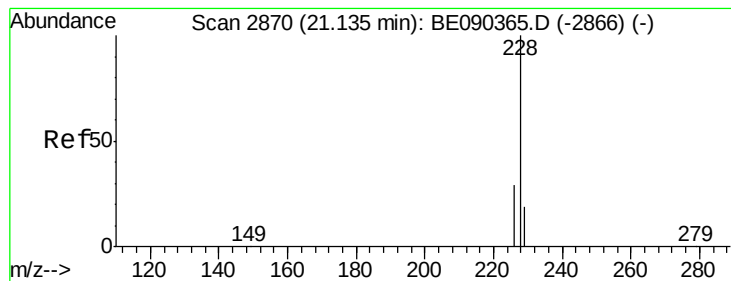
Tot Ion:244 Resp: 23072
 Ion Ratio Lower Upper
 244 100
 212 9.3 6.6 9.8
 122 18.3 10.2 15.4#



#28
 Benzo(a)anthracene
 Concen: 0.18 ng
 RT: 21.13 min Scan# 2869
 Delta R.T. 0.05 min
 Lab File: BE090496.D
 Acq: 13 Aug 2015 8:36

Tgt Ion:228 Resp: 5894
 Ion Ratio Lower Upper
 228 100
 226 42.5 21.9 32.9#
 229 58.8 15.4 23.0#





#29

Chrysene

Concen: 0.16 ng

RT: 21.13 min Scan# 2869

Delta R.T. -0.01 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampleId :

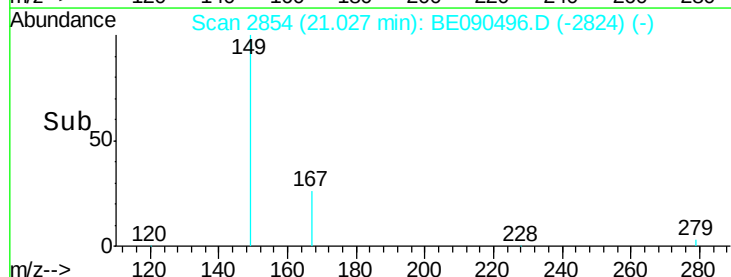
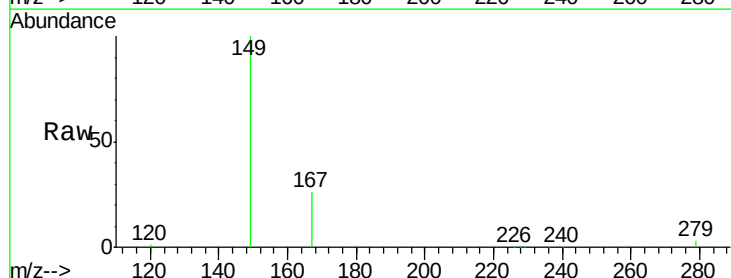
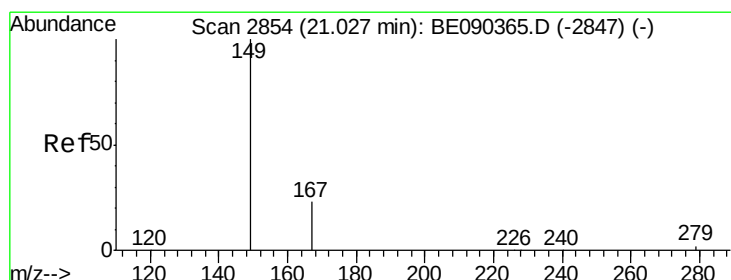
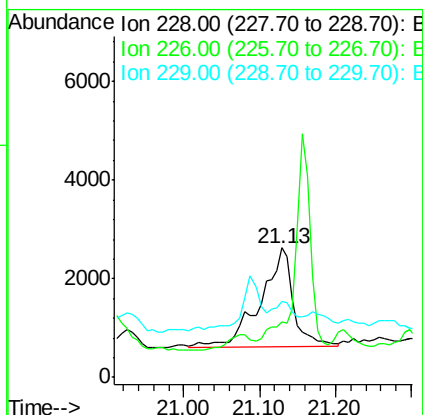
Tot Ion:228 Resp: 6007

Ion Ratio Lower Upper

228 100

226 42.5 23.1 34.7#

229 58.8 15.8 23.8#



#30

Bis(2-ethylhexyl)phthalate

Concen: 15.23 ng

RT: 21.03 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

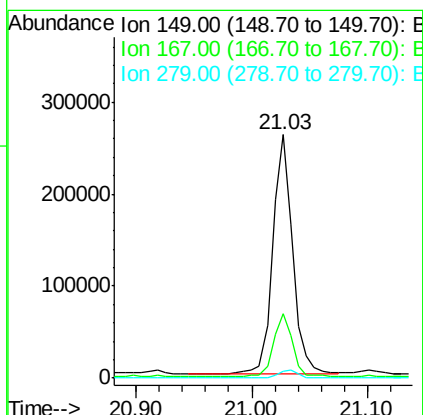
Tgt Ion:149 Resp: 316575

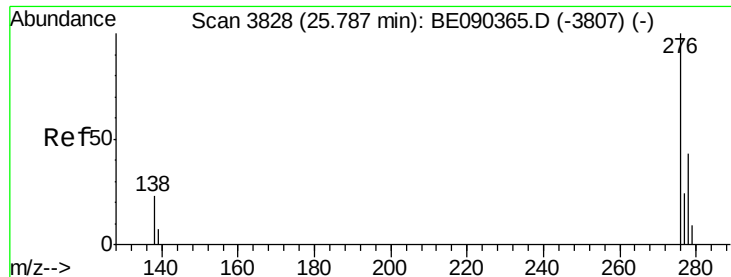
Ion Ratio Lower Upper

149 100

167 24.8 19.8 29.8

279 3.2 2.4 3.6

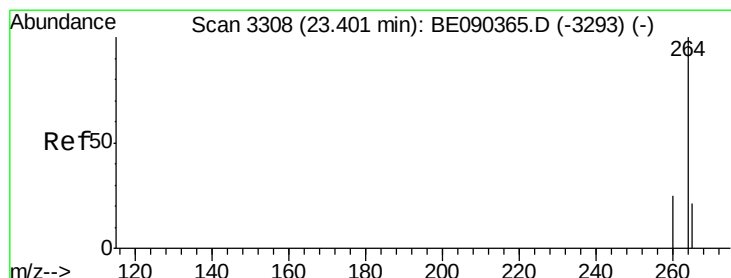
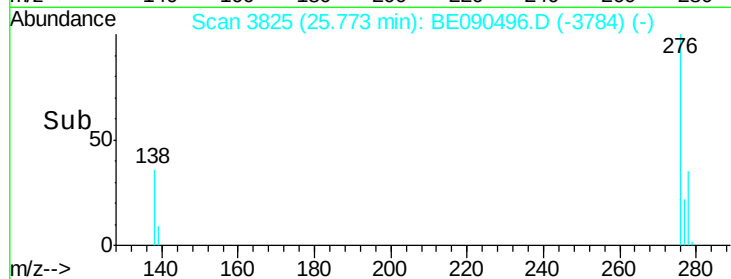
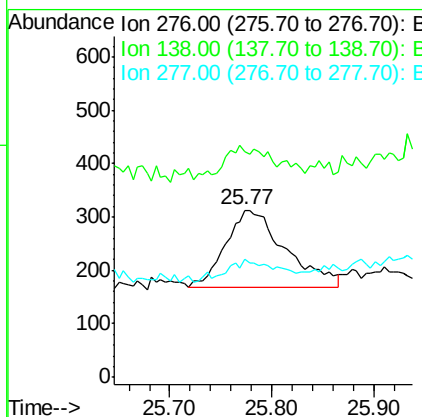
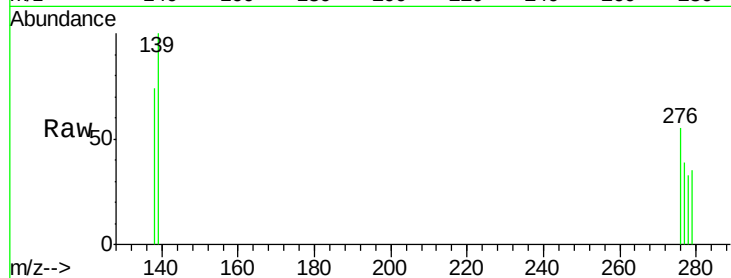




#31
Indeno(1,2,3-cd)pyrene
Concen: 0.27 ng
RT: 25.77 min Scan# 3825
Delta R.T. -0.01 min
Lab File: BE090496.D
Acq: 13 Aug 2015 8:36

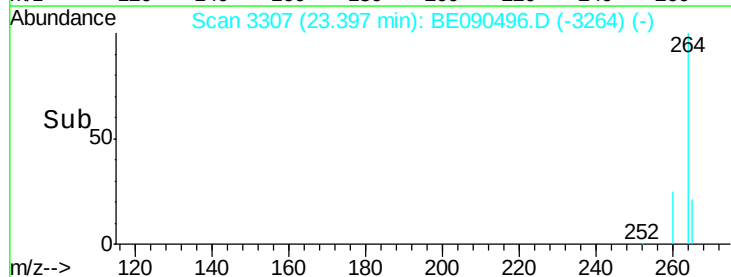
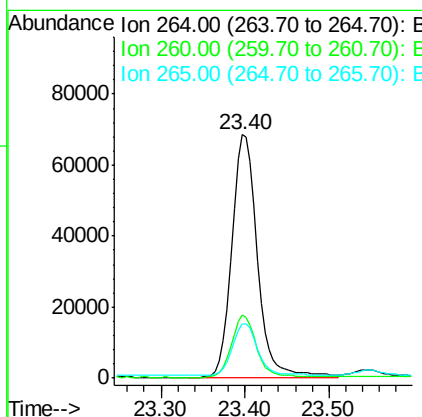
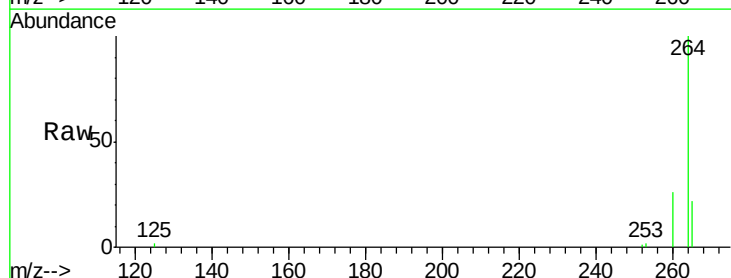
Instrument :
BNA_E
ClientSampleId :

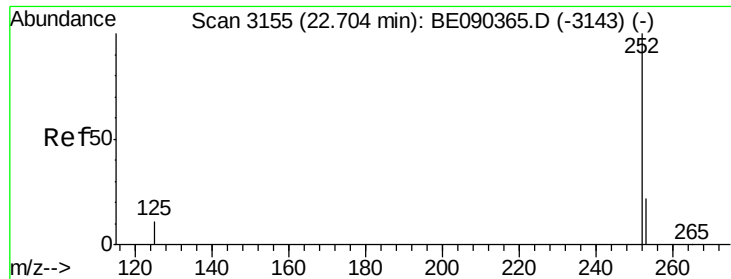
Tot Ion:276 Resp: 582
Ion Ratio Lower Upper
276 100
138 13.7 18.8 28.2#
277 9.6 18.2 27.4#



#32
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3307
Delta R.T. -0.00 min
Lab File: BE090496.D
Acq: 13 Aug 2015 8:36

Tgt Ion:264 Resp: 143915
Ion Ratio Lower Upper
264 100
260 25.8 20.1 30.1
265 22.1 17.2 25.8





#33

Benzo(b)fluoranthene

Concen: 0.21 ng

RT: 22.70 min Scan# 3154

Delta R.T. -0.00 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampleId :

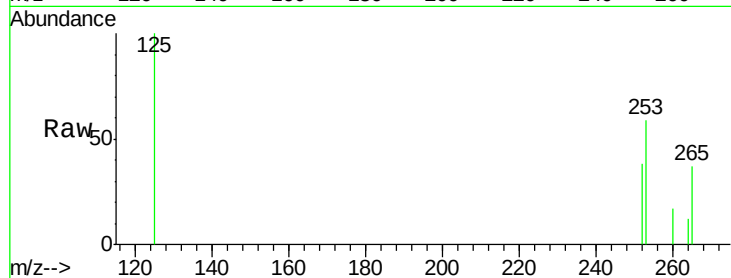
Tot Ion:252 Resp: 602

Ion Ratio Lower Upper

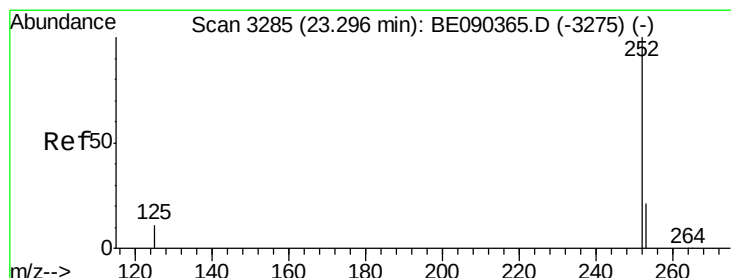
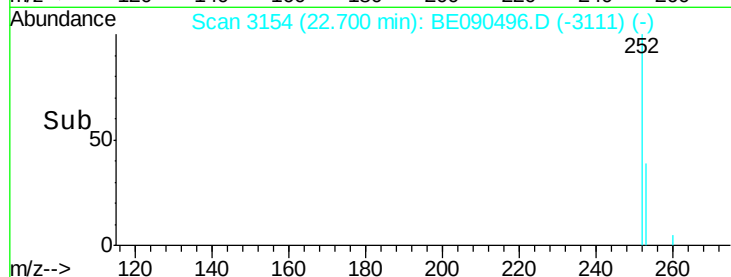
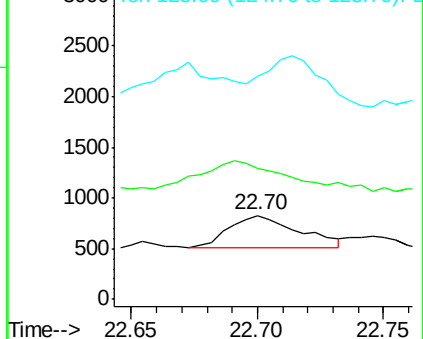
252 100

253 155.9 18.1 27.1#

125 265.3 9.4 14.2#



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



#35

Benzo(a)pyrene

Concen: 0.24 ng

RT: 23.30 min Scan# 3285

Delta R.T. 0.00 min

Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

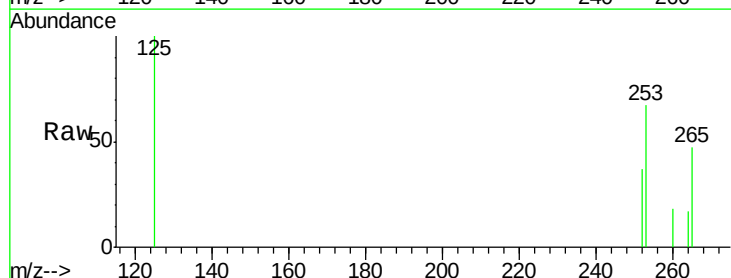
Tgt Ion:252 Resp: 349

Ion Ratio Lower Upper

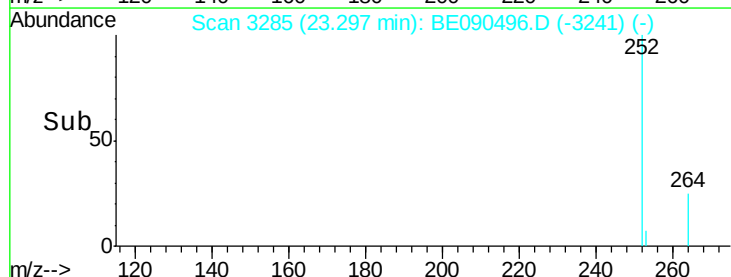
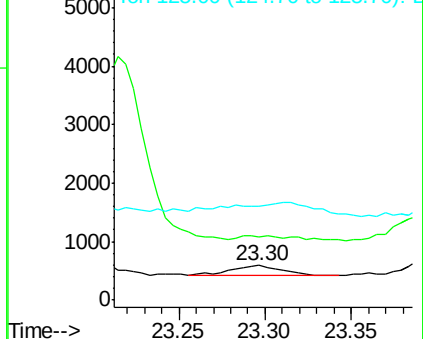
252 100

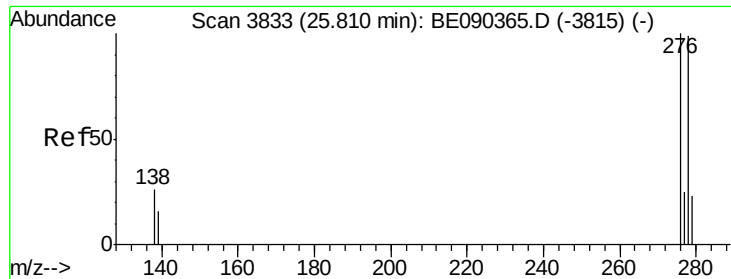
253 184.3 17.6 26.4#

125 273.3 9.8 14.6#



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





#36

Dibenzo(a,h)anthracene

Concen: 0.30 ng

RT: 25.79 min Scan# 3829

Delta R.T. -0.02 min

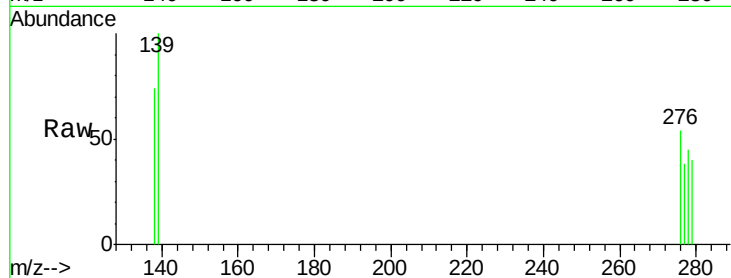
Lab File: BE090496.D

Acq: 13 Aug 2015 8:36

Instrument :

BNA_E

ClientSampleId :



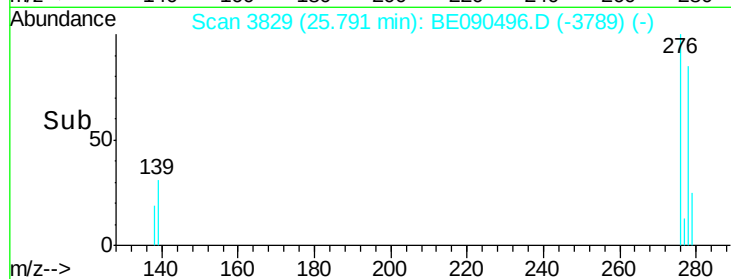
Tot Ion: 278 Resp: 467

Ion Ratio Lower Upper

278 100

139 224.5 14.2 21.4#

279 90.8 20.1 30.1#



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

