

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080416\
 Data File : BE092208.D
 Acq On : 5 Aug 2016 7:41
 Operator : UM/SJ
 Sample : H4288-21
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 GW-64-9.0-15.0

Quant Time: Aug 05 08:16:51 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

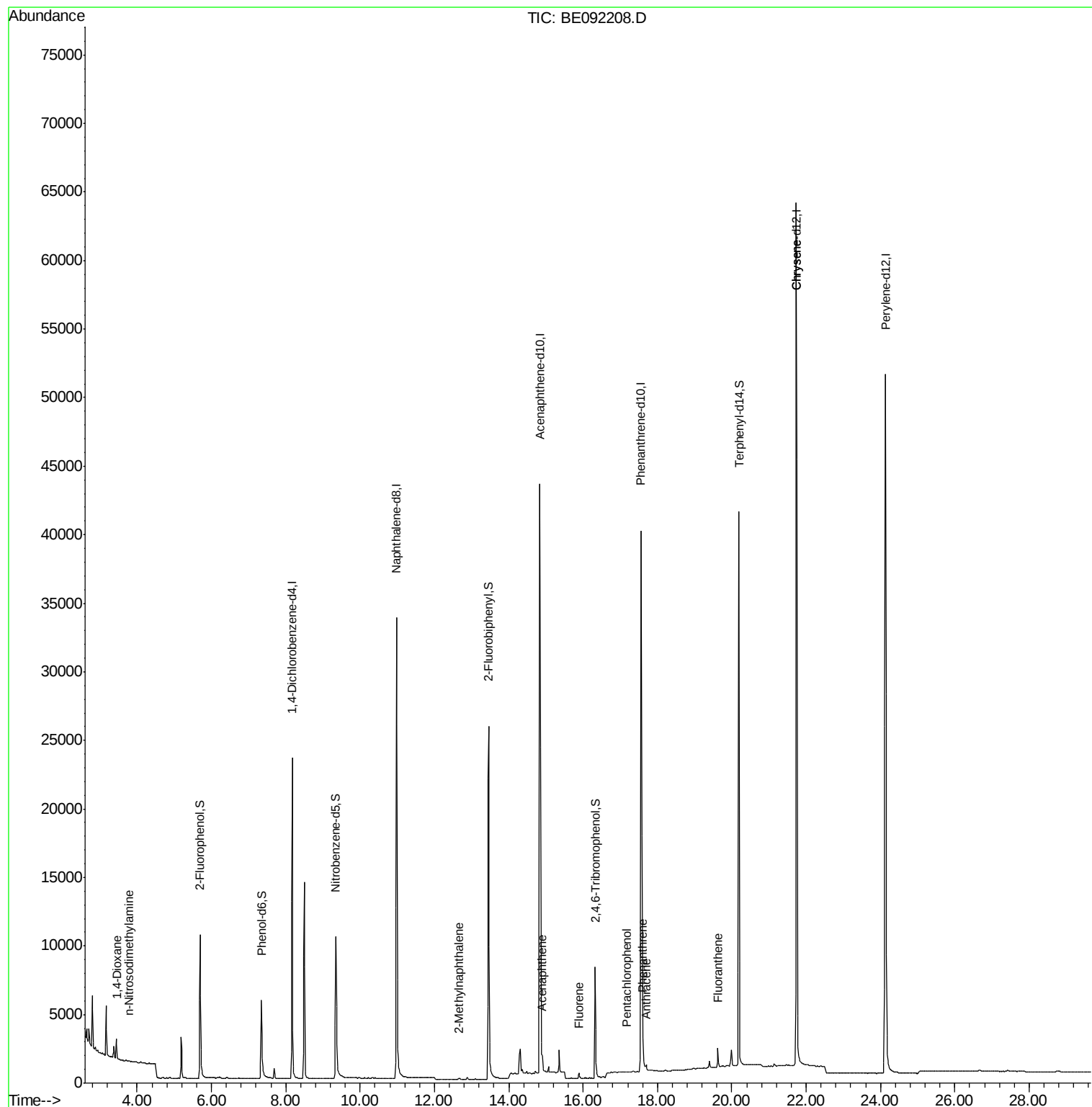
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	12015	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	54599	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	30038	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	65539	5.00	ng	-0.02
22) Chrysene-d12	21.73	240	84771	5.00	ng	-0.02
28) Perylene-d12	24.14	264	83567	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	9426	3.05	ng	0.00
5) Phenol-d6	7.35	99	7687	1.87	ng	0.00
7) Nitrobenzene-d5	9.34	82	13234	3.07	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	5982	6.13	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	30734	3.23	ng	0.00
24) Terphenyl-d14	20.19	244	46707	3.84	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.44	88	979	0.60	ng	# 50
3) n-Nitrosodimethylamine	3.77	42	16	0.10	ng	# 1
9) 2-Methylnaphthalene	12.67	142	78	0.02	ng	# 57
14) Acenaphthene	14.90	154	229	0.03	ng	# 87
15) Fluorene	15.89	166	349	0.03	ng	# 95
18) Pentachlorophenol	17.17	266	6	0.20	ng	# 77
19) Phenanthrene	17.60	178	1753	0.06	ng	# 95
20) Anthracene	17.70	178	538	0.03	ng	# 91
21) Fluoranthene	19.63	202	1943	0.02	ng	# 91
26) Chrysene	21.73	228	1885	0.02	ng	# 62
30) Benzo(k)fluoranthene	23.46	252	56	Below Cal		# 1

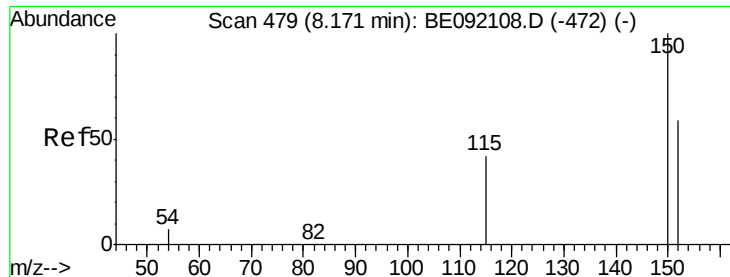
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0

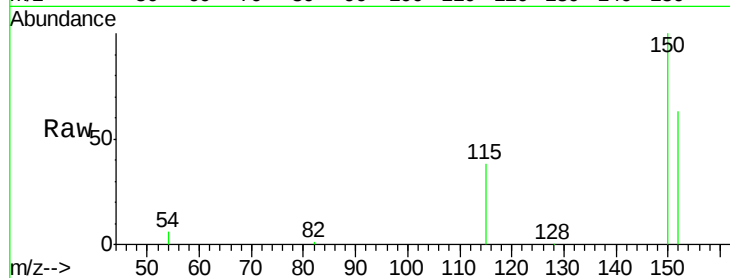
Tgt Ion:152 Resp: 12015

Ion Ratio Lower Upper

152 100

150 158.3 106.0 159.0

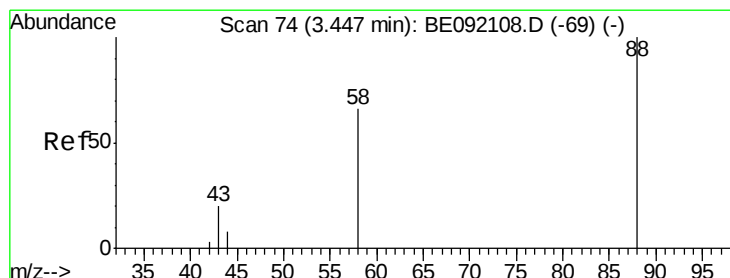
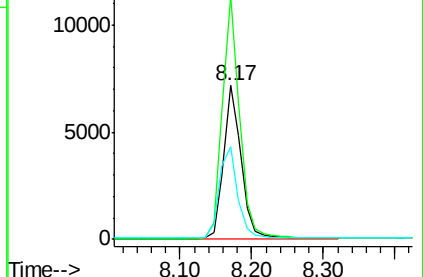
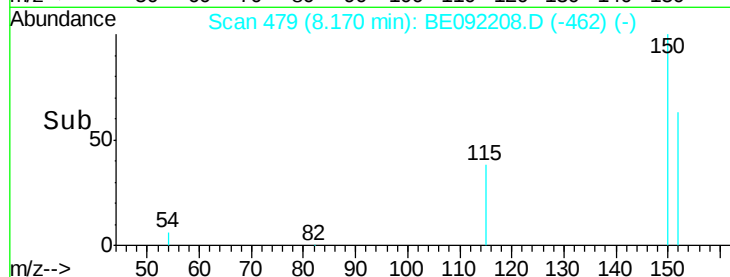
115 60.6 36.9 55.3#



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: 0.60 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

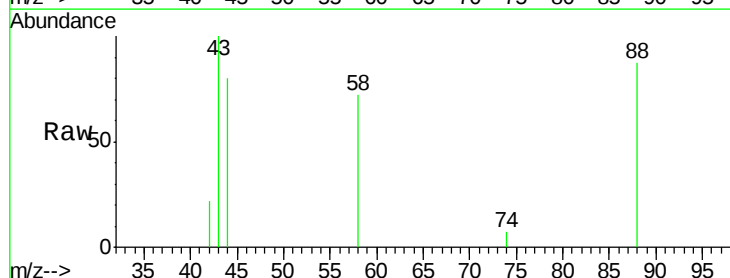
Tgt Ion: 88 Resp: 979

Ion Ratio Lower Upper

88 100

58 91.3 62.1 93.1

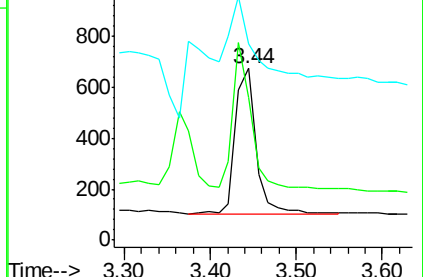
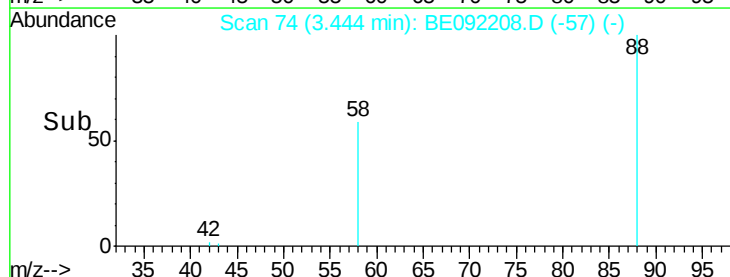
43 108.1 27.2 40.8#

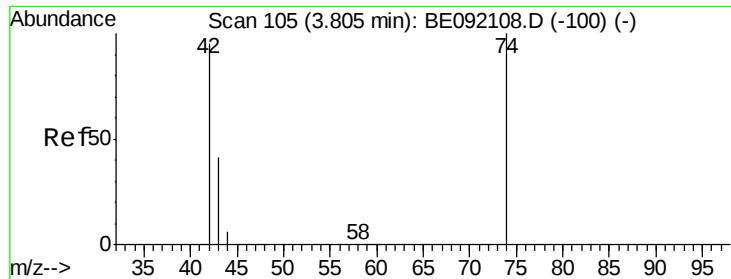


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



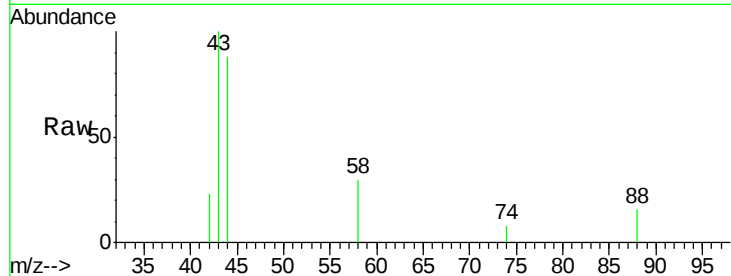


#3

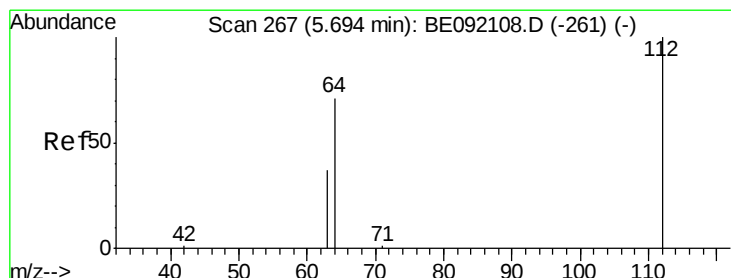
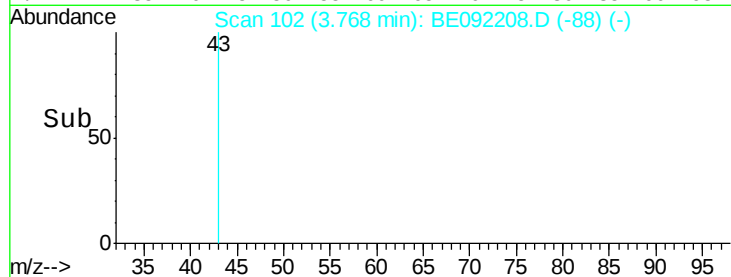
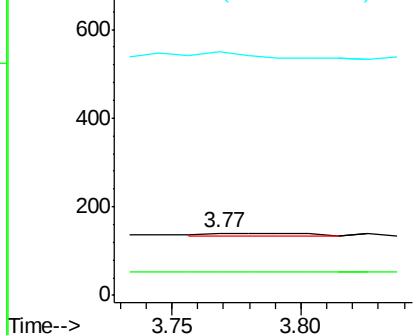
n-Nitrosodimethylamine
 Concen: 0.10 ng
 RT: 3.77 min Scan# 102
 Delta R.T. -0.04 min
 Lab File: BE092208.D
 Acq: 5 Aug 2016 7:41

Instrument :
 BNA_E
 ClientSampleId :
 GW-64-9.0-15.0

Tgt Ion: 42 Resp: 16
 Ion Ratio Lower Upper
 42 100
 74 0.0 82.8 124.2#
 44 281.3 9.0 13.4#



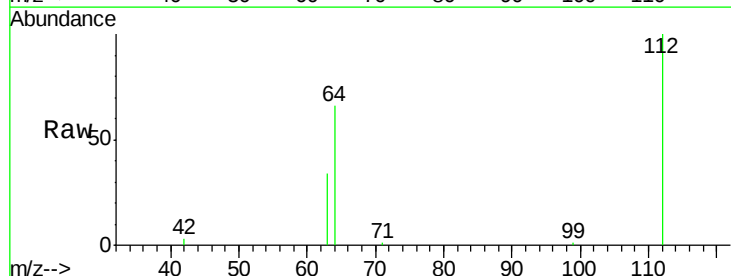
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



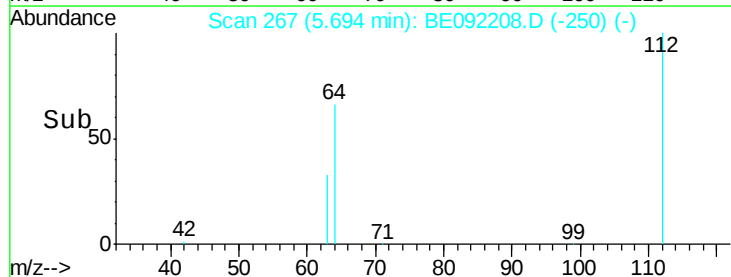
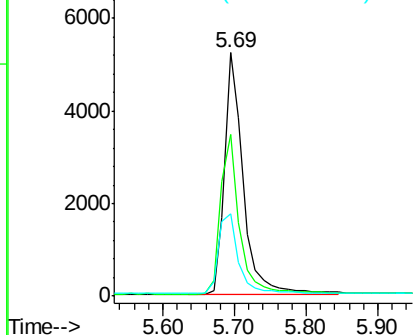
#4

2-Fluorophenol
 Concen: 3.05 ng
 RT: 5.69 min Scan# 267
 Delta R.T. -0.00 min
 Lab File: BE092208.D
 Acq: 5 Aug 2016 7:41

Tgt Ion: 112 Resp: 9426
 Ion Ratio Lower Upper
 112 100
 64 66.7 55.9 83.9
 63 36.1 31.1 46.7



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.87 ng

RT: 7.35 min Scan# 410

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0

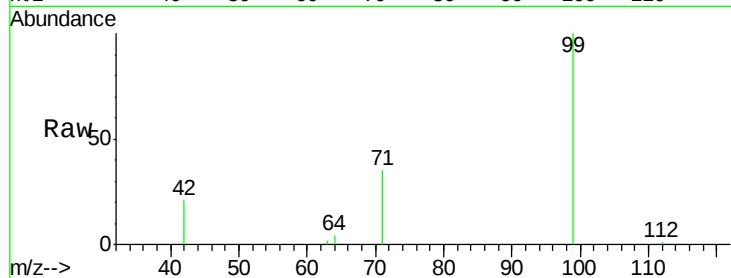
Tgt Ion: 99 Resp: 7687

Ion Ratio Lower Upper

99 100

42 26.1 22.4 33.6

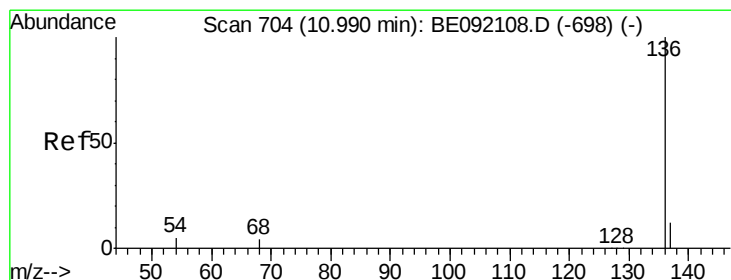
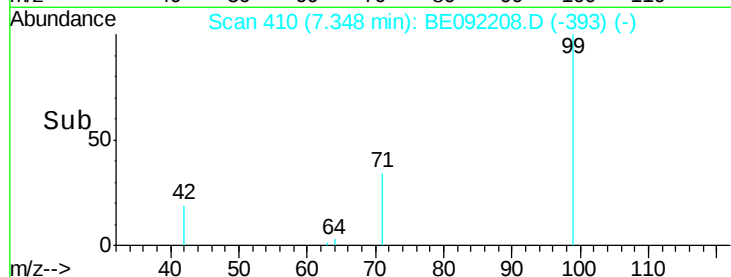
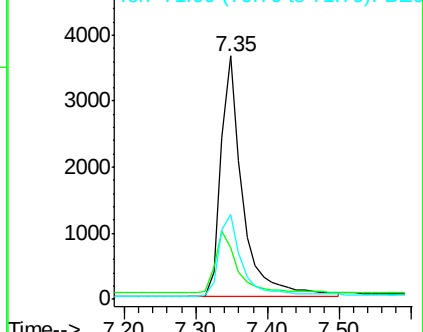
71 36.5 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE092108.D (-403) (-)

Ion 42.00 (41.70 to 42.70): BE092108.D (-403) (-)

Ion 71.00 (70.70 to 71.70): BE092108.D (-403) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Tgt Ion: 136 Resp: 54599

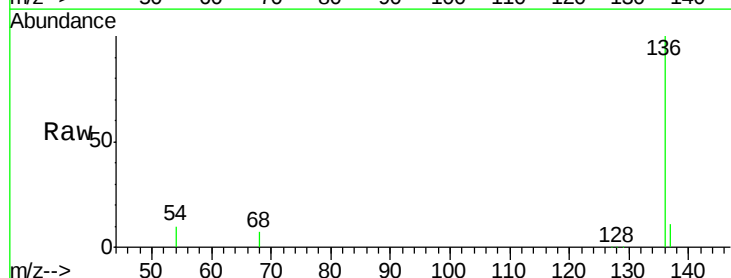
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 10.2 2.7 4.1#

68 7.2 2.2 3.4#

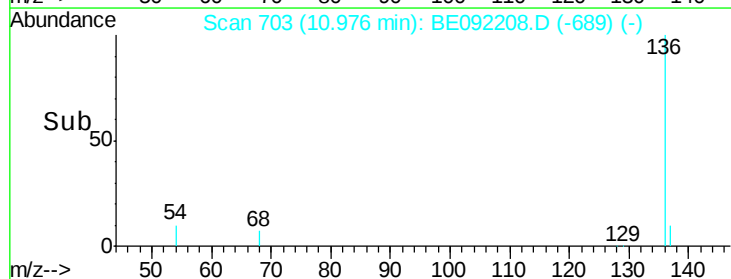
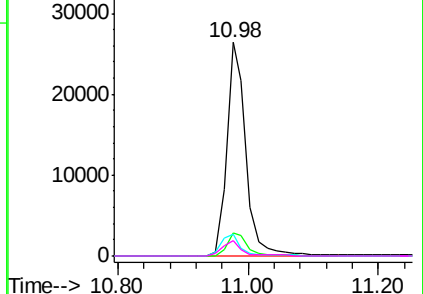


Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

Ion 137.00 (136.70 to 137.70): BE092108.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-698) (-)

Ion 68.00 (67.70 to 68.70): BE092108.D (-698) (-)





#7

Nitrobenzene-d5

Concen: 3.07 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0

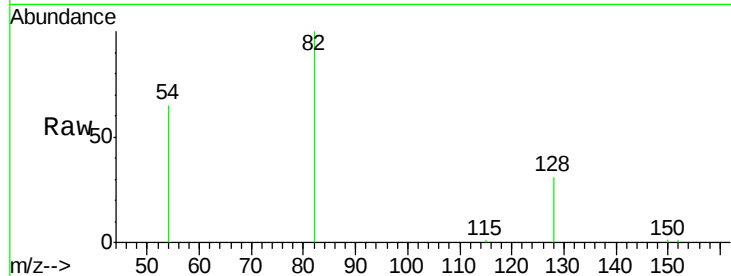
Tgt Ion: 82 Resp: 13234

Ion Ratio Lower Upper

82 100

128 31.4 33.0 49.4#

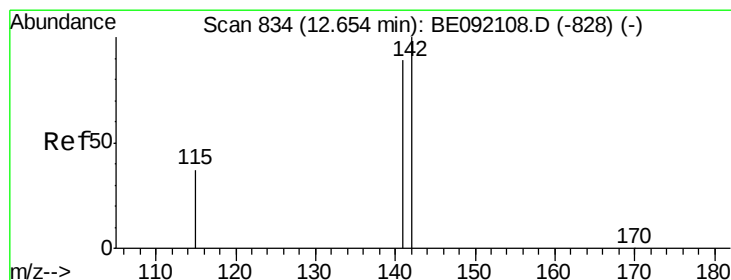
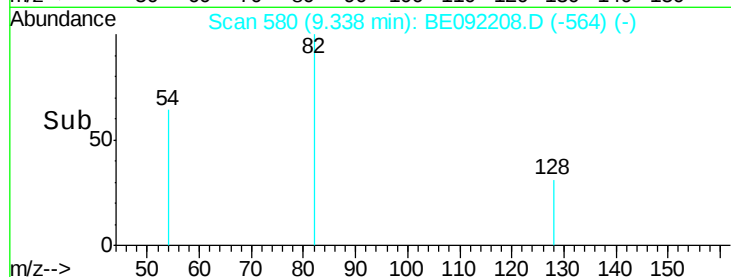
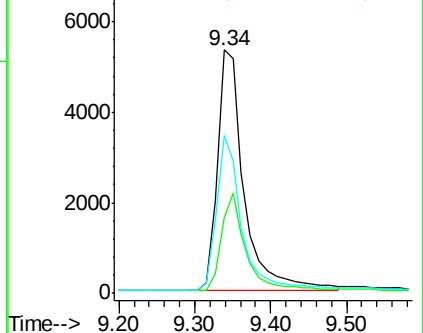
54 64.7 42.6 63.8#



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



#9

2-Methylnaphthalene

Concen: 0.02 ng

RT: 12.67 min Scan# 835

Delta R.T. 0.01 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

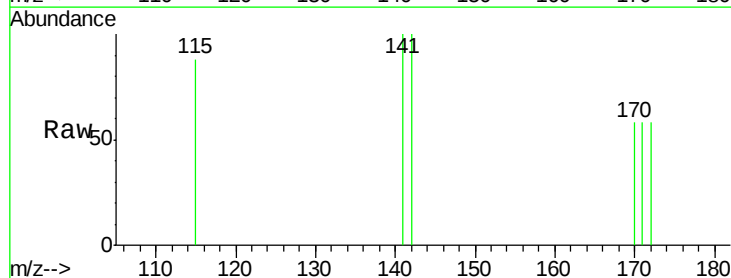
Tgt Ion: 142 Resp: 78

Ion Ratio Lower Upper

142 100

141 100.0 65.1 97.7#

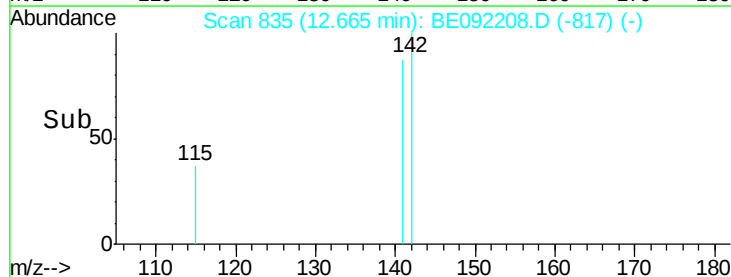
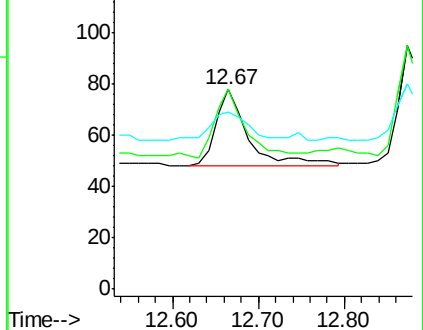
115 88.5 27.0 40.4#

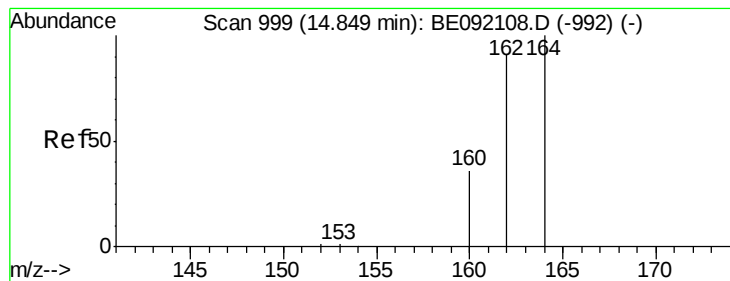


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0

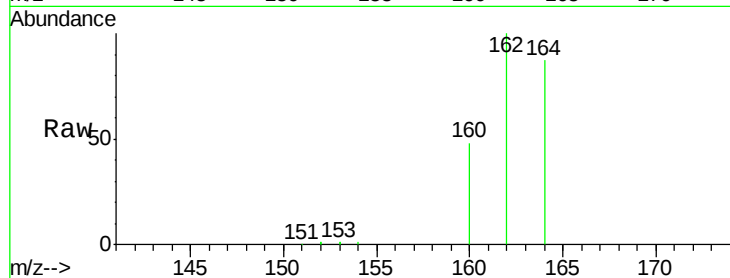
Tgt Ion:164 Resp: 30038

Ion Ratio Lower Upper

164 100

162 114.6 69.5 104.3#

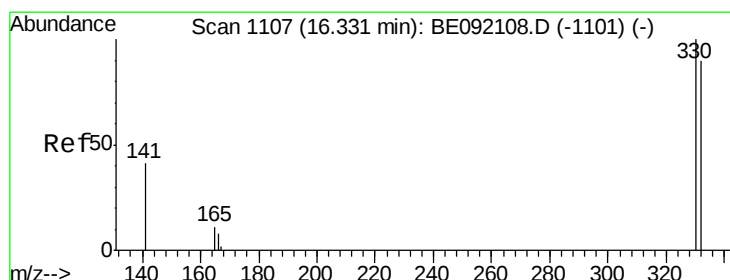
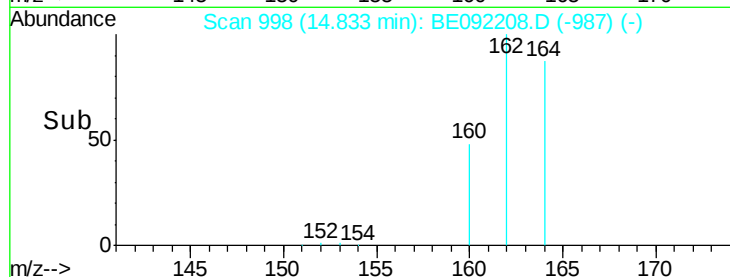
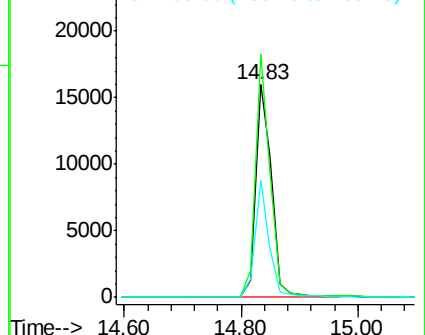
160 55.0 27.6 41.4#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#11

2,4,6-Tribromophenol

Concen: 6.13 ng

RT: 16.33 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

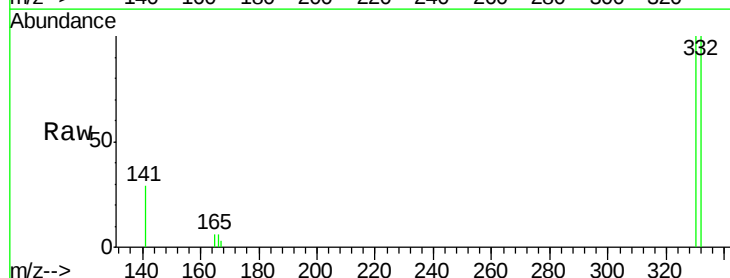
Tgt Ion:330 Resp: 5982

Ion Ratio Lower Upper

330 100

332 95.4 74.2 111.4

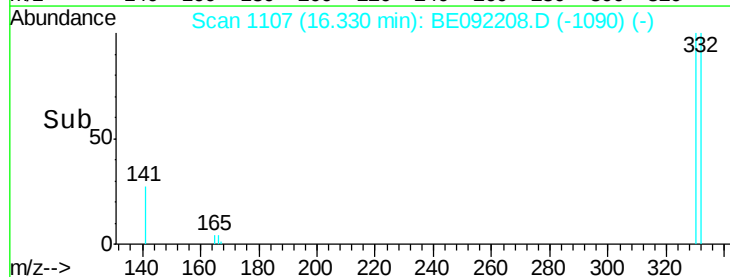
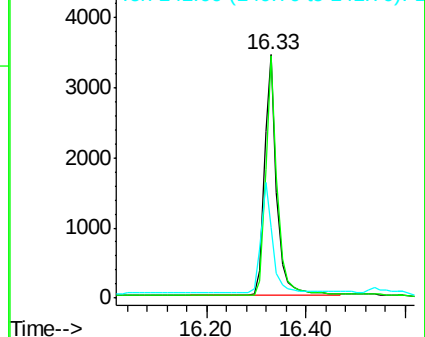
141 44.9 139.8 209.8#

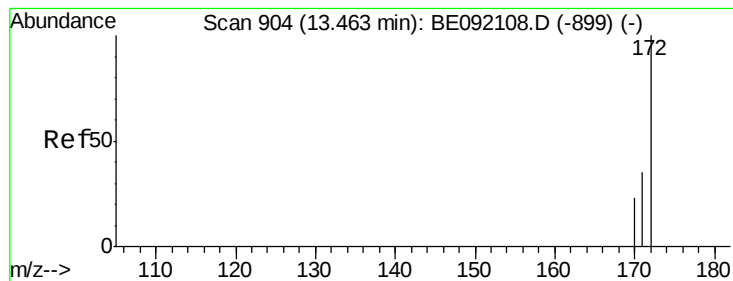


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#12

2-Fluorobiphenyl

Concen: 3.23 ng

RT: 13.46 min Scan# 904

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0

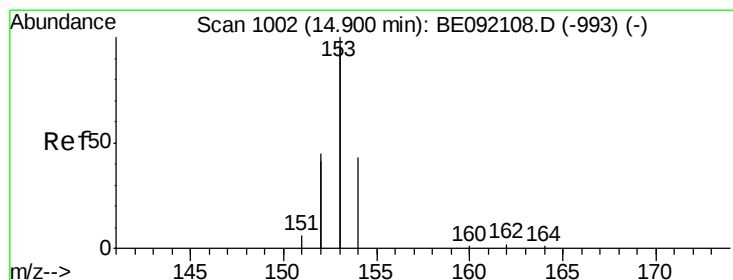
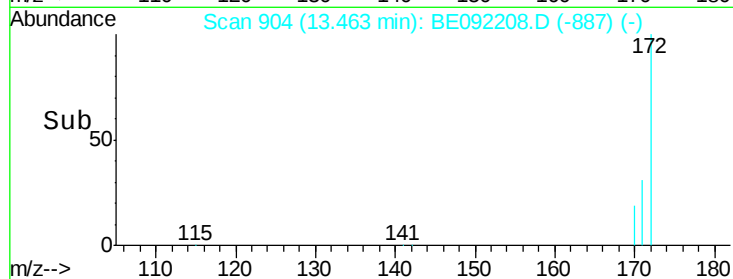
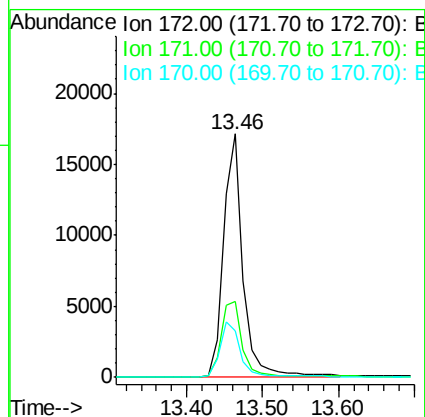
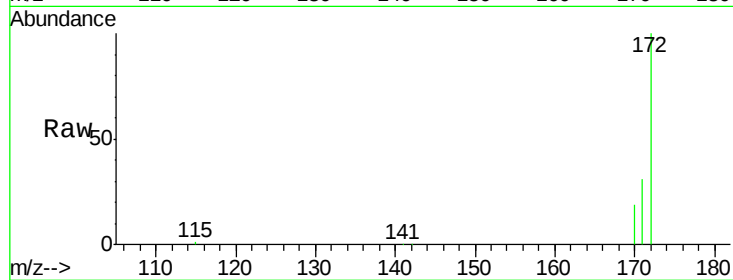
Tgt Ion:172 Resp: 30734

Ion Ratio Lower Upper

172 100

171 31.4 30.3 45.5

170 19.2 21.6 32.4#



#14

Acenaphthene

Concen: 0.03 ng

RT: 14.90 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

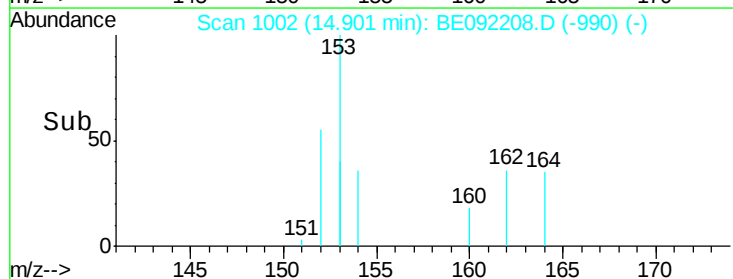
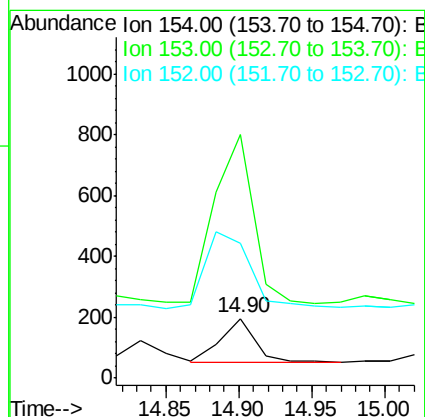
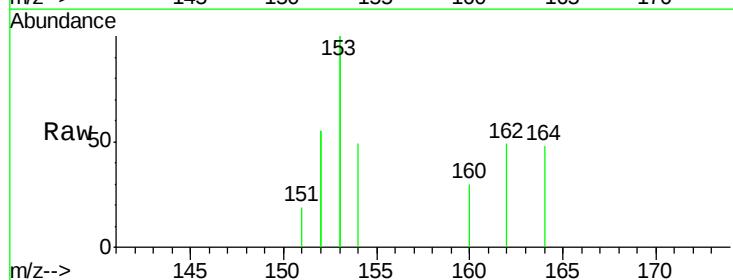
Tgt Ion:154 Resp: 229

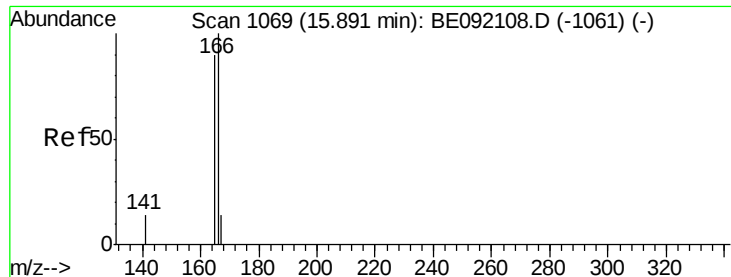
Ion Ratio Lower Upper

154 100

153 464.6 345.1 517.7

152 238.4 0.0 0.0#





#15

Fluorene

Concen: 0.03 ng

RT: 15.89 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0

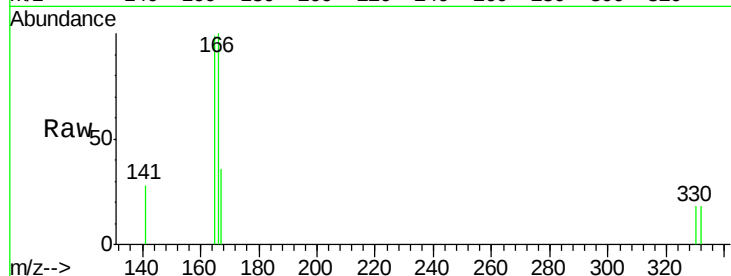
Tgt Ion:166 Resp: 349

Ion Ratio Lower Upper

166 100

165 102.3 78.6 118.0

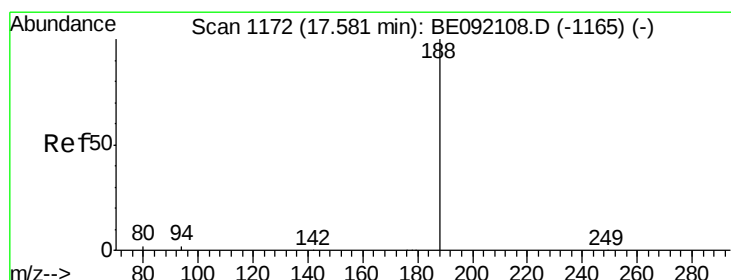
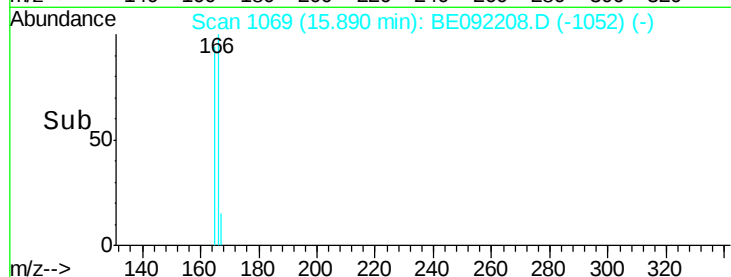
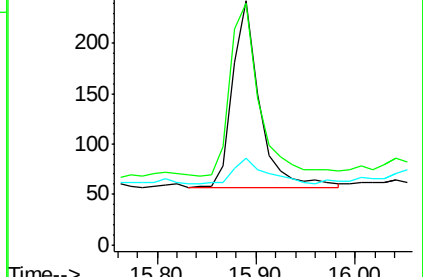
167 17.5 11.1 16.7#



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



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

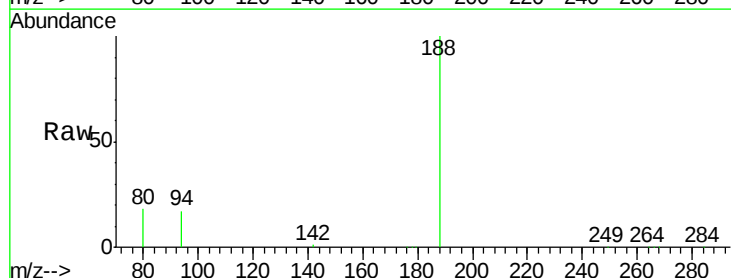
Tgt Ion:188 Resp: 65539

Ion Ratio Lower Upper

188 100

94 17.1 3.9 5.9#

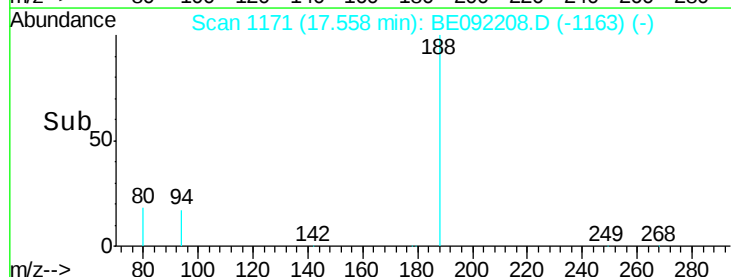
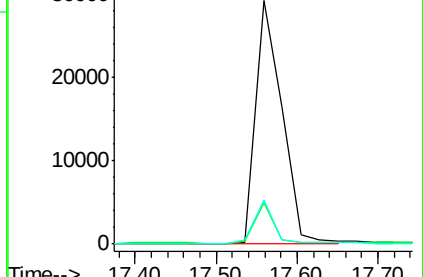
80 18.2 3.4 5.0#

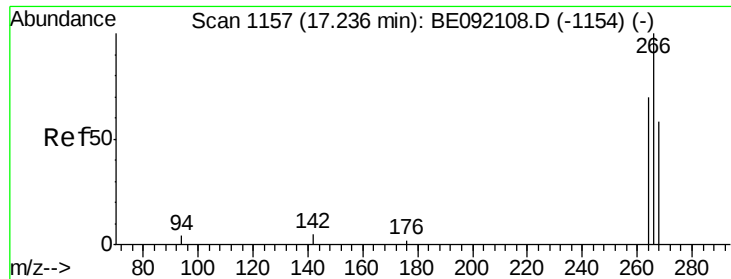


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

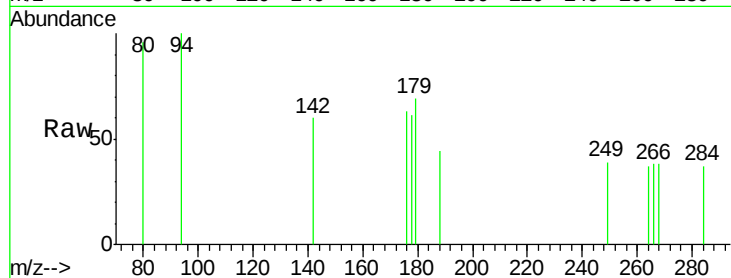




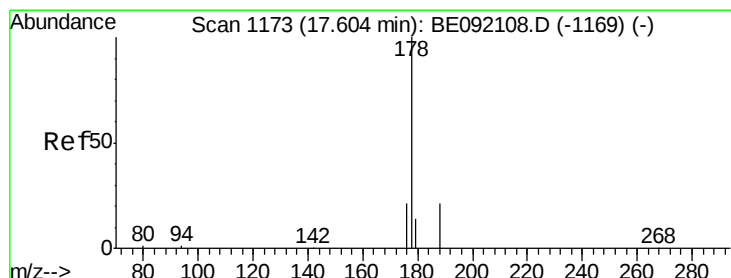
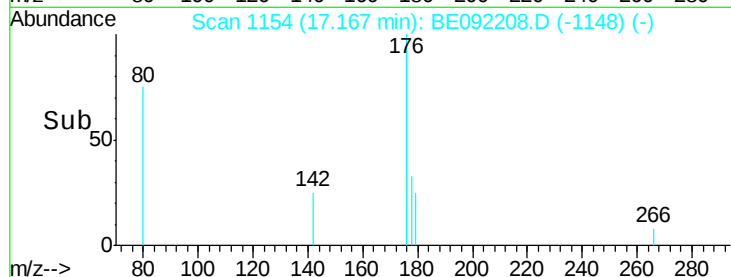
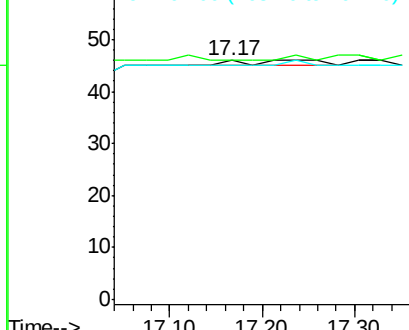
#18
 Pentachlorophenol
 Concen: 0.20 ng
 RT: 17.17 min Scan# 1154
 Delta R.T. -0.07 min
 Lab File: BE092208.D
 Acq: 5 Aug 2016 7:41

Instrument :
 BNA_E
 ClientSampleId :
 GW-64-9.0-15.0

Tgt Ion	Ratio	Lower	Upper
266	100		
268	100.0	62.7	94.1#
264	97.8	63.5	95.3#

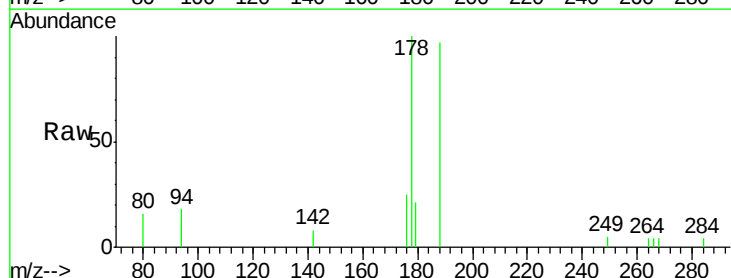


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

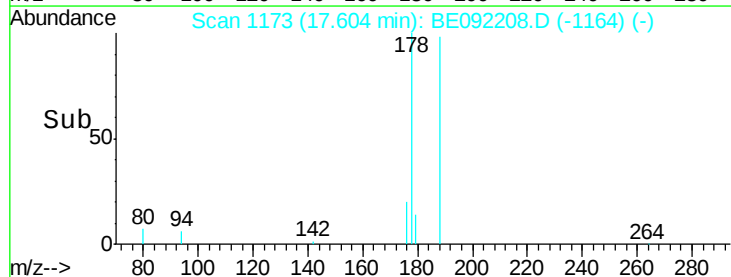
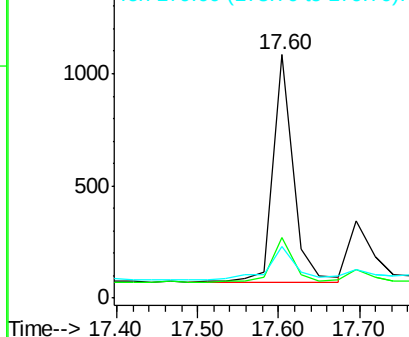


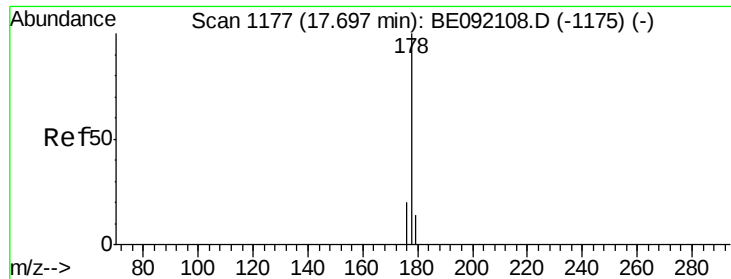
#19
 Phenanthrene
 Concen: 0.06 ng
 RT: 17.60 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: BE092208.D
 Acq: 5 Aug 2016 7:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.9	15.4	23.0
179	19.0	12.7	19.1



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





#20

Anthracene

Concen: 0.03 ng

RT: 17.70 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0

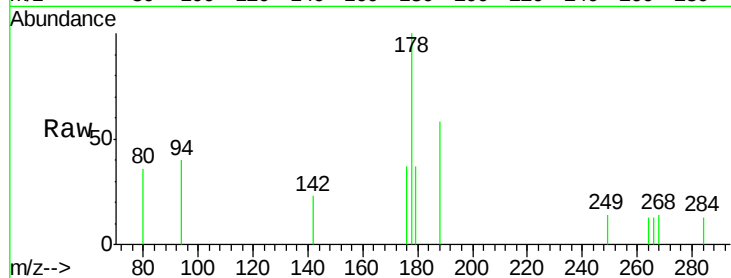
Tgt Ion:178 Resp: 538

Ion Ratio Lower Upper

178 100

176 22.3 15.2 22.8

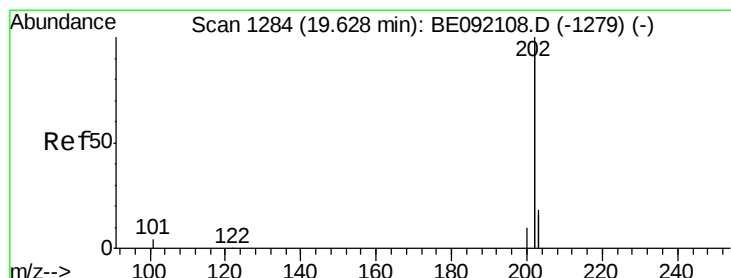
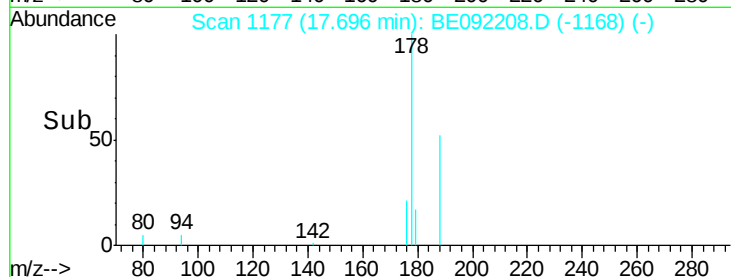
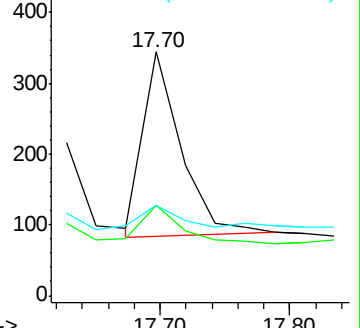
179 19.7 12.2 18.4#



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



#21

Fluoranthene

Concen: 0.02 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092208.D

Acq: 5 Aug 2016 7:41

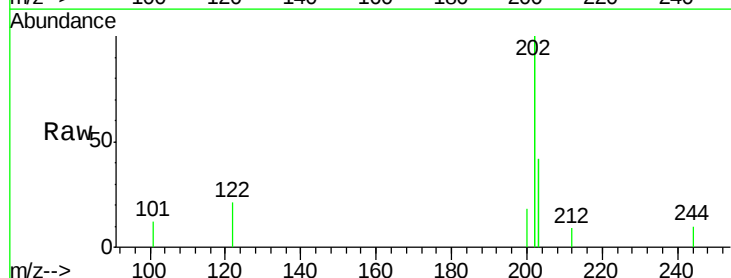
Tgt Ion:202 Resp: 1943

Ion Ratio Lower Upper

202 100

101 3.2 2.2 3.2

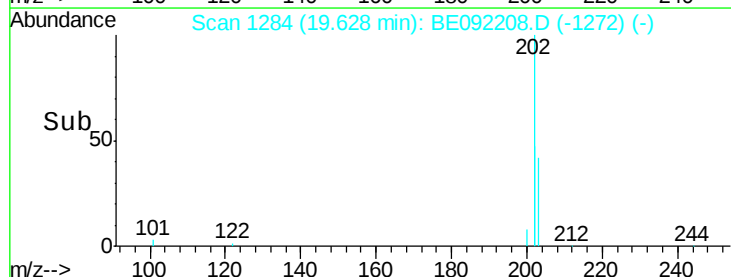
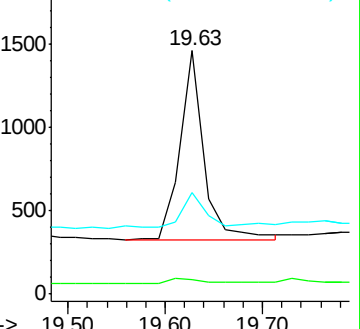
203 20.6 13.0 19.4#

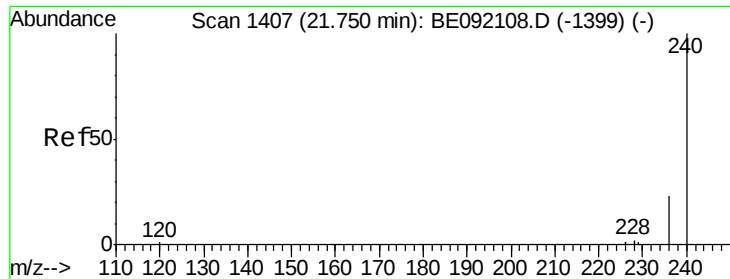


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

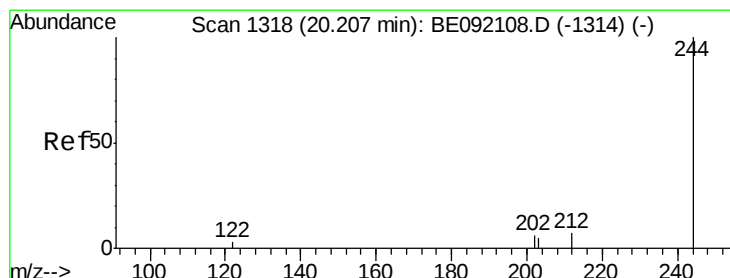
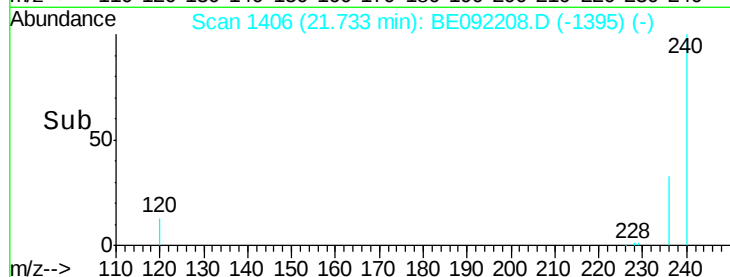
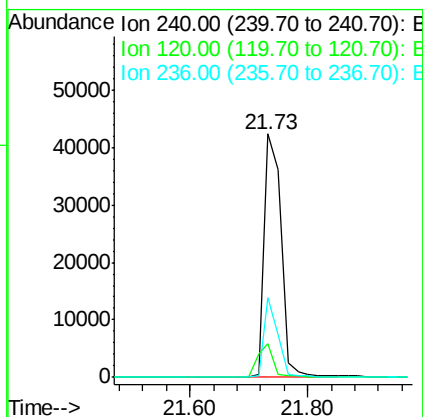
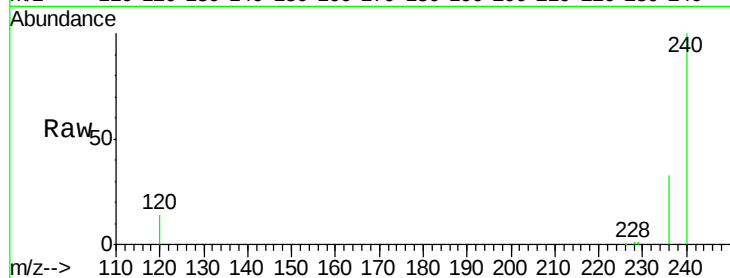




#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.73 min Scan# 1406
Delta R.T. -0.02 min
Lab File: BE092208.D
Acq: 5 Aug 2016 7:41

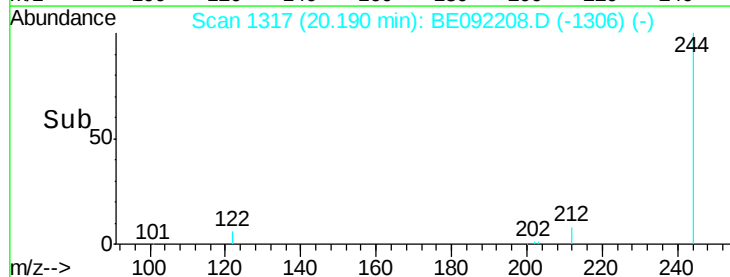
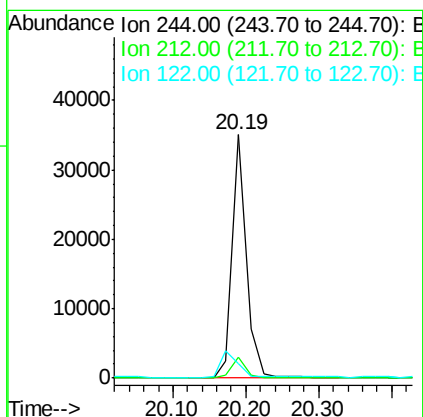
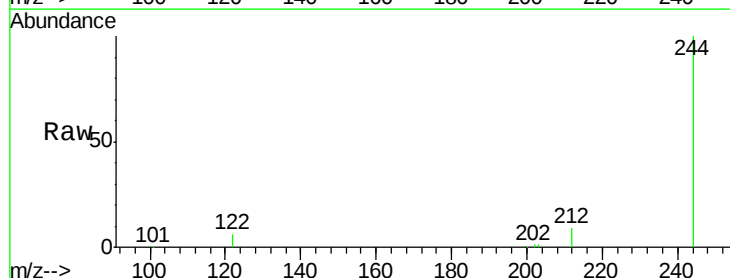
Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0

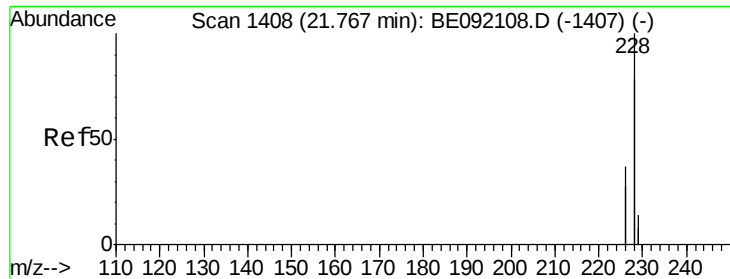
Tgt Ion:240 Resp: 84771
Ion Ratio Lower Upper
240 100
120 13.8 0.6 1.0#
236 32.9 18.2 27.4#



#24
Terphenyl-d14
Concen: 3.84 ng
RT: 20.19 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BE092208.D
Acq: 5 Aug 2016 7:41

Tgt Ion:244 Resp: 46707
Ion Ratio Lower Upper
244 100
212 8.7 9.1 13.7#
122 6.1 11.0 16.4#

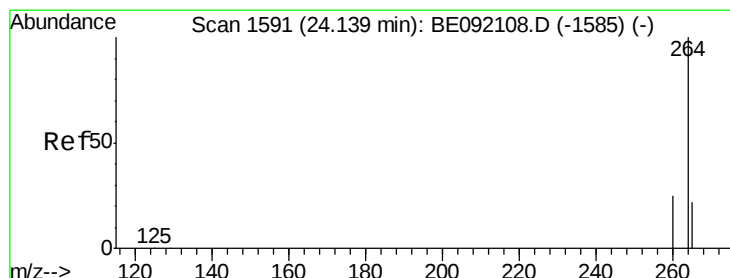
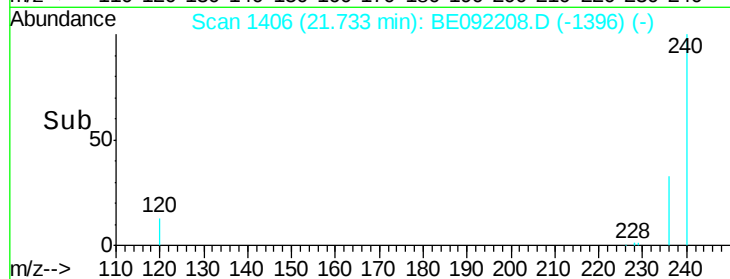
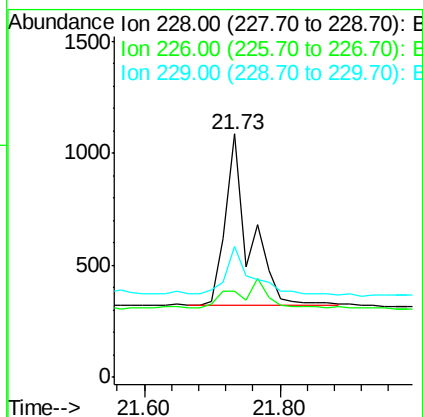
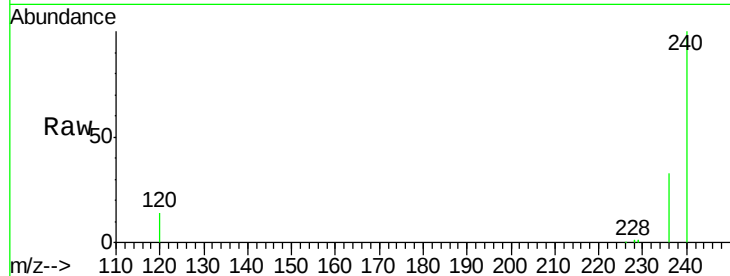




#26
Chrysene
Concen: 0.02 ng
RT: 21.73 min Scan# 1406
Delta R.T. -0.03 min
Lab File: BE092208.D
Acq: 5 Aug 2016 7:41

Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0

Tgt Ion:228 Resp: 1885
Ion Ratio Lower Upper
228 100
226 35.4 22.3 33.5#
229 53.6 16.9 25.3#



#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092208.D
Acq: 5 Aug 2016 7:41

Tgt Ion:264 Resp: 83567
Ion Ratio Lower Upper
264 100
260 24.3 20.8 31.2
265 22.8 16.6 25.0

