

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE080416\  
 Data File : BE092198.D  
 Acq On : 5 Aug 2016 00:58  
 Operator : UM/SJ  
 Sample : H4269-22  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-57-13.8-18.5

Quant Time: Aug 05 03:16:09 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

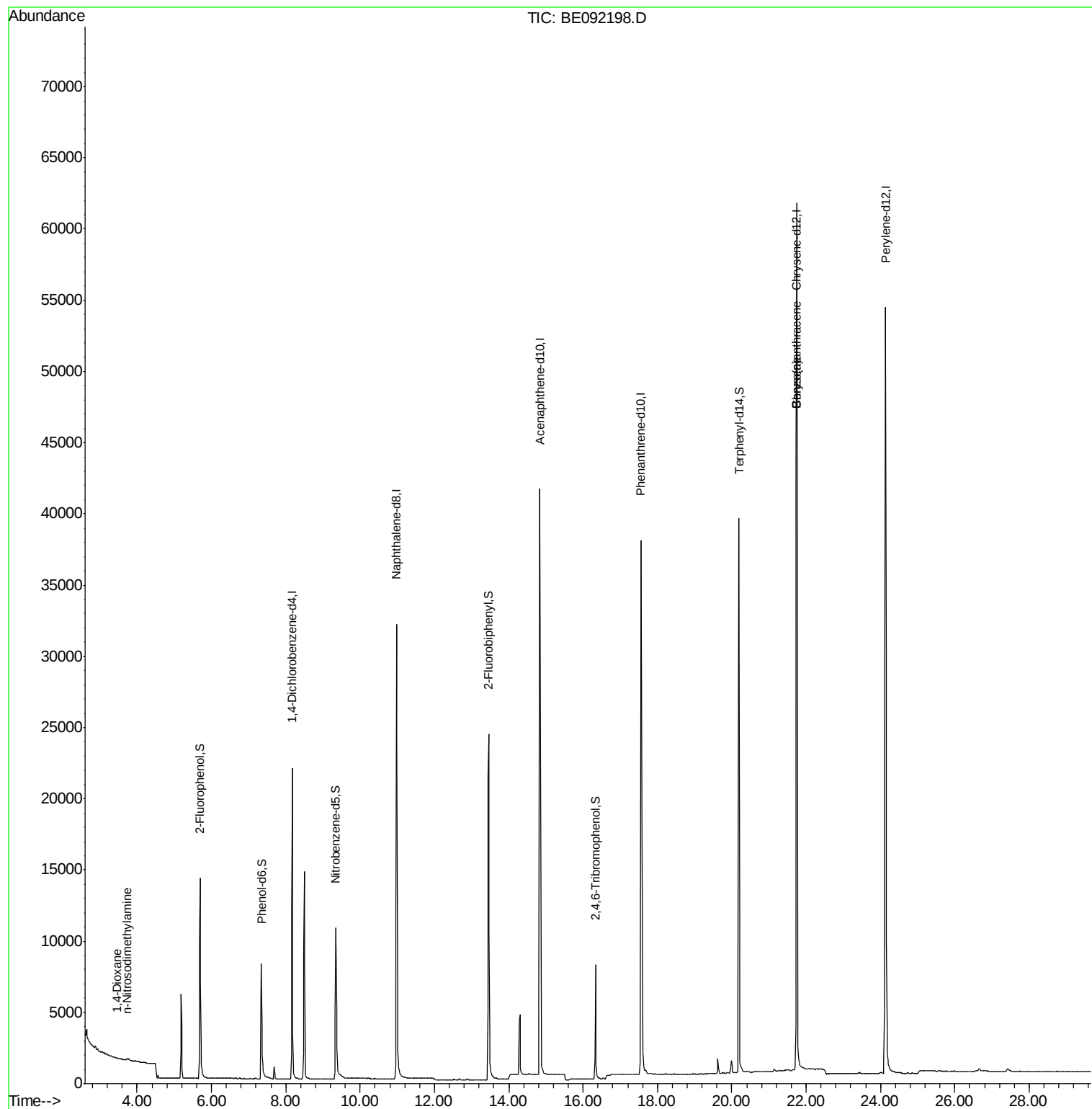
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.17  | 152  | 11275    | 5.00      | ng    | 0.00     |
| 6) Naphthalene-d8           | 10.98 | 136  | 50984    | 5.00      | ng    | -0.01    |
| 10) Acenaphthene-d10        | 14.83 | 164  | 28080    | 5.00      | ng    | -0.02    |
| 16) Phenanthrene-d10        | 17.56 | 188  | 63380    | 5.00      | ng    | -0.02    |
| 22) Chrysene-d12            | 21.75 | 240  | 81901    | 5.00      | ng    | 0.00     |
| 28) Perylene-d12            | 24.14 | 264  | 83076    | 5.00      | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 4) 2-Fluorophenol           | 5.69  | 112  | 12562    | 4.34      | ng    | 0.00     |
| 5) Phenol-d6                | 7.35  | 99   | 11248    | 2.92      | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 9.34  | 82   | 13118    | 3.26      | ng    | -0.01    |
| 11) 2,4,6-Tribromophenol    | 16.33 | 330  | 5842     | 6.41      | ng    | 0.00     |
| 12) 2-Fluorobiphenyl        | 13.46 | 172  | 29854    | 3.35      | ng    | 0.00     |
| 24) Terphenyl-d14           | 20.19 | 244  | 46994    | 4.00      | ng    | -0.02    |
| Target Compounds            |       |      |          |           |       |          |
| 2) 1,4-Dioxane              | 3.44  | 88   | 48       | 0.03      | ng    | # 31     |
| 3) n-Nitrosodimethylamine   | 3.73  | 42   | 100      | 0.14      | ng    | # 1      |
| 8) Naphthalene              | 11.03 | 128  | 62       | Below Cal |       | # 1      |
| 19) Phenanthrene            | 17.60 | 178  | 622      | Below Cal |       | # 88     |
| 25) Benzo(a)anthracene      | 21.73 | 228  | 2179     | 0.02      | ng    | # 71     |
| 26) Chrysene                | 21.73 | 228  | 2211     | 0.02      | ng    | # 73     |
| 30) Benzo(k)fluoranthene    | 23.41 | 252  | 124      | Below Cal |       | # 1      |

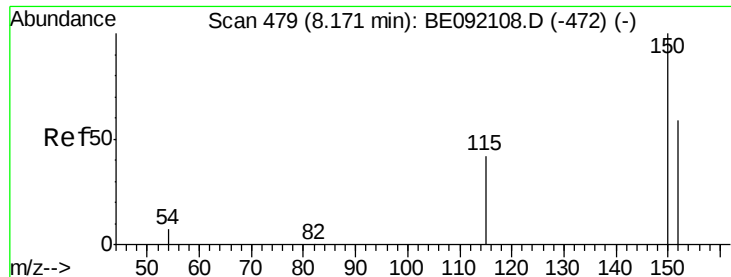
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

Instrument :

BNA\_E

ClientSampleId :

GW-57-13.8-18.5

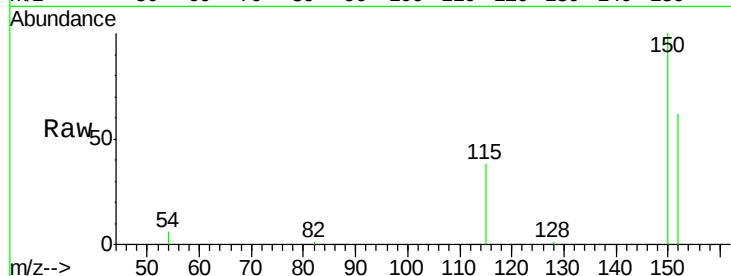
Tgt Ion:152 Resp: 11275

Ion Ratio Lower Upper

152 100

150 160.7 106.0 159.0#

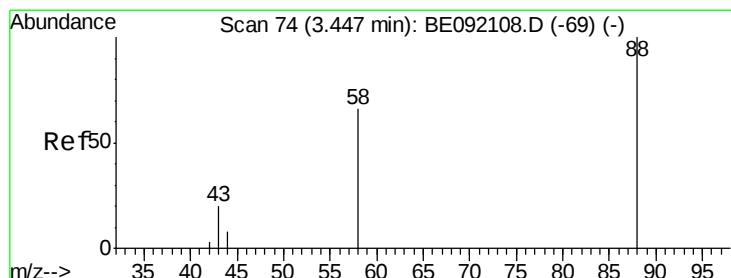
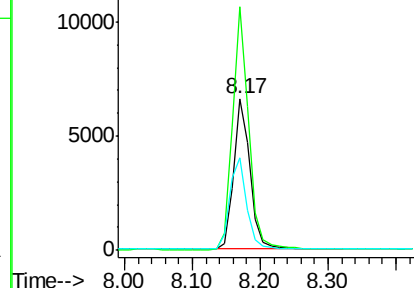
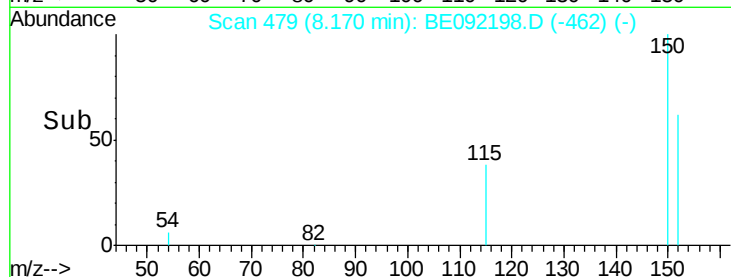
115 61.5 36.9 55.3#



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: 0.03 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

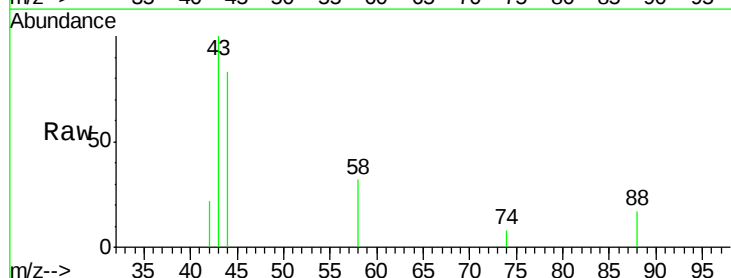
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

58 141.7 62.1 93.1#

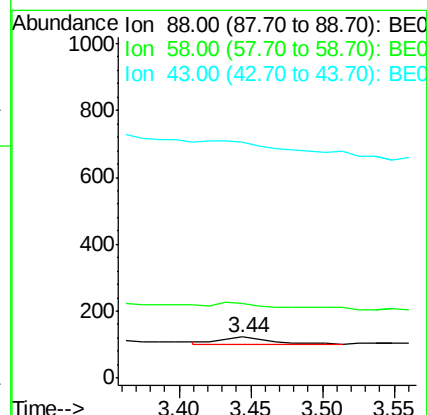
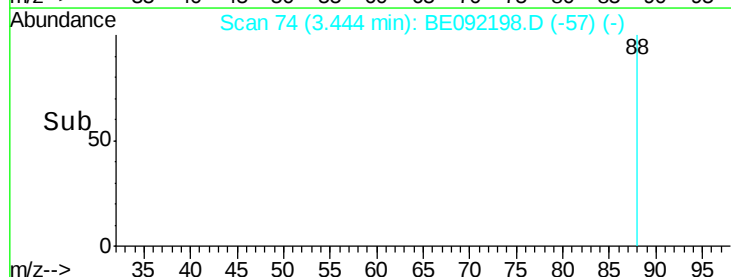
43 0.0 27.2 40.8#

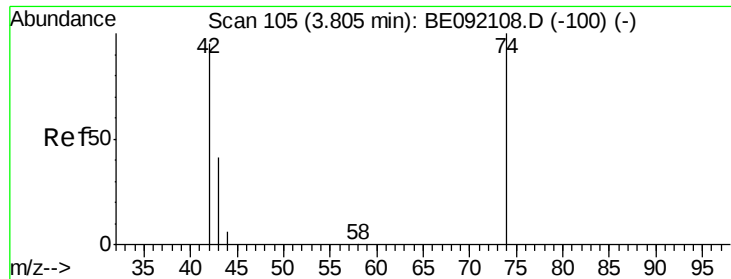


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.14 ng

RT: 3.73 min Scan# 99

Delta R.T. -0.07 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

Instrument :

BNA\_E

ClientSampleId :

GW-57-13.8-18.5

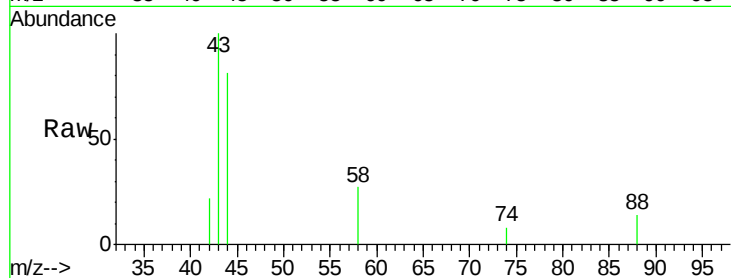
Tgt Ion: 42 Resp: 100

Ion Ratio Lower Upper

42 100

74 5.0 82.8 124.2#

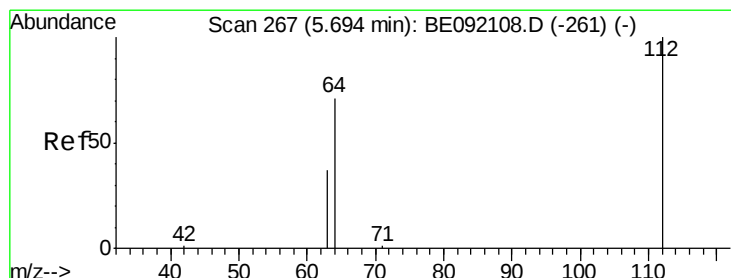
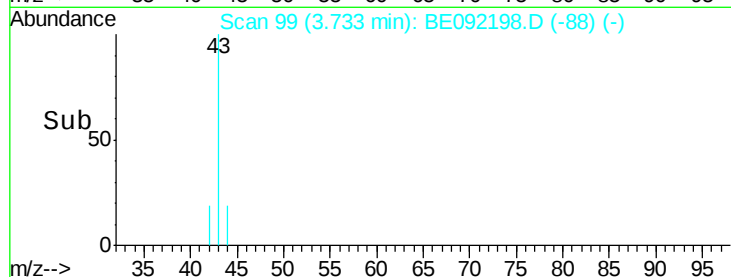
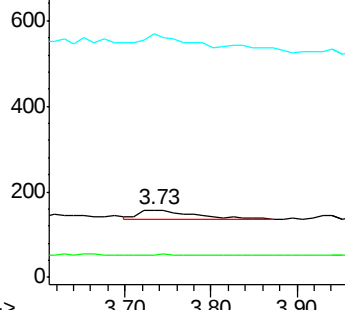
44 79.0 9.0 13.4#



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: 4.34 ng

RT: 5.69 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

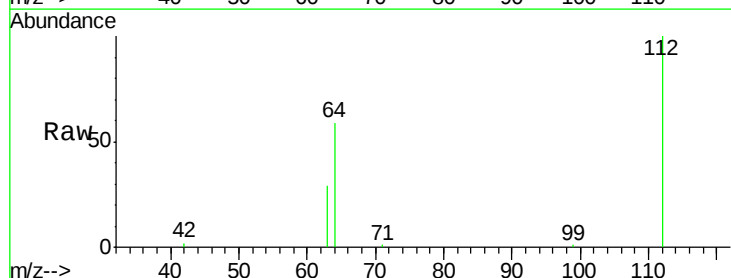
Tgt Ion: 112 Resp: 12562

Ion Ratio Lower Upper

112 100

64 66.4 55.9 83.9

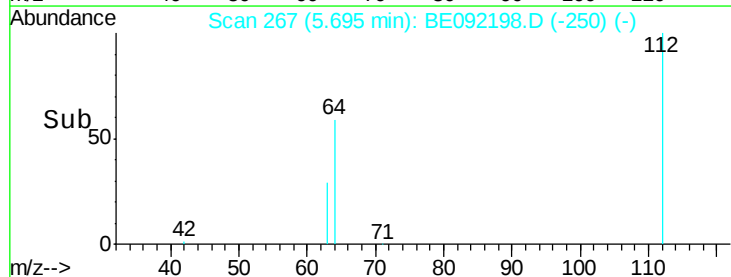
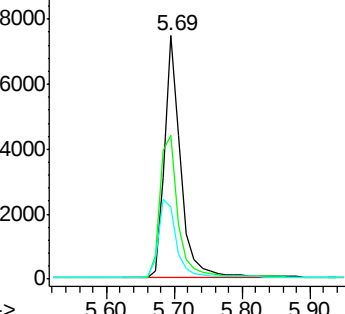
63 36.3 31.1 46.7

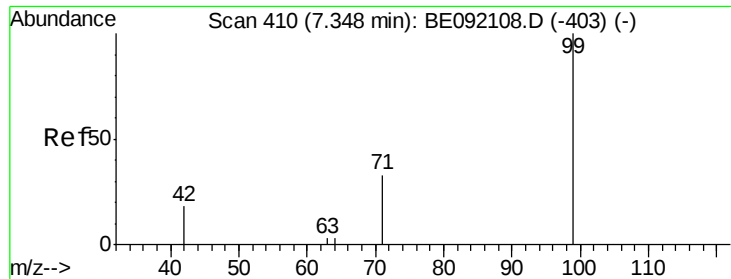


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.92 ng

RT: 7.35 min Scan# 410

Delta R.T. 0.00 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

Instrument :

BNA\_E

ClientSampleId :

GW-57-13.8-18.5

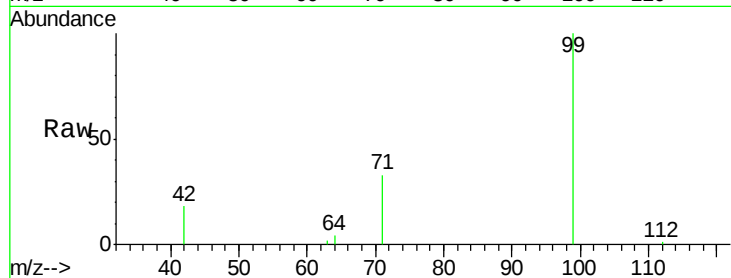
Tgt Ion: 99 Resp: 11248

Ion Ratio Lower Upper

99 100

42 25.6 22.4 33.6

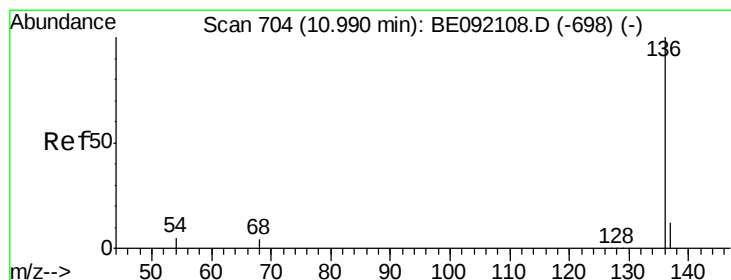
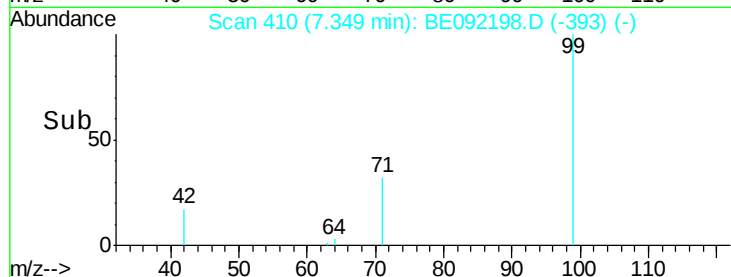
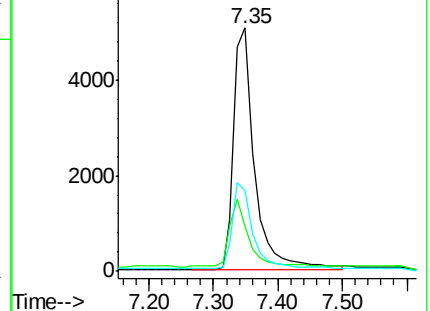
71 35.5 28.9 43.3



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: BE092198.D

Acq: 5 Aug 2016 00:58

Tgt Ion: 136 Resp: 50984

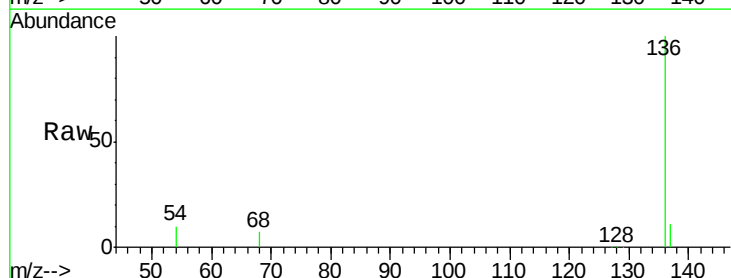
Ion Ratio Lower Upper

136 100

137 10.5 9.1 13.7

54 10.1 2.7 4.1#

68 7.0 2.2 3.4#

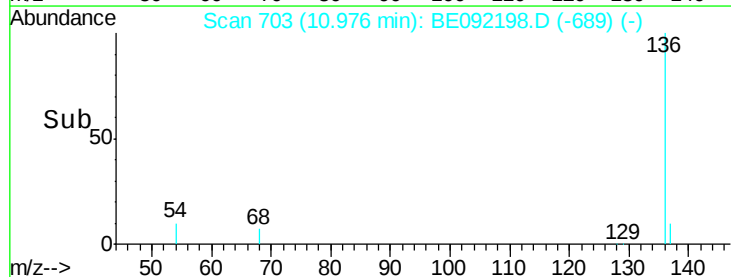
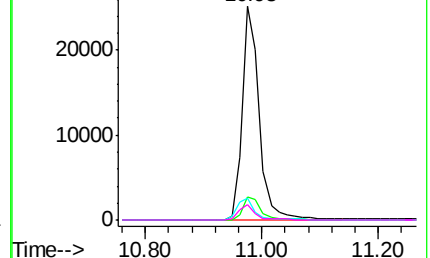


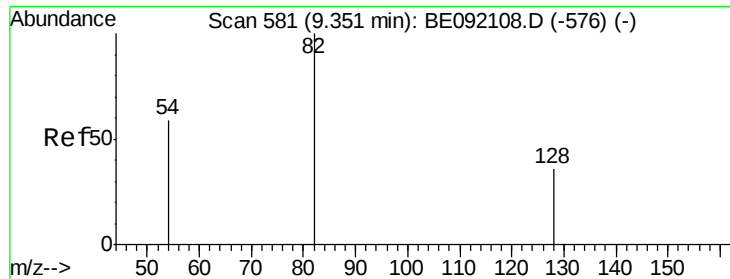
Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

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: 3.26 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

Instrument :

BNA\_E

ClientSampleId :

GW-57-13.8-18.5

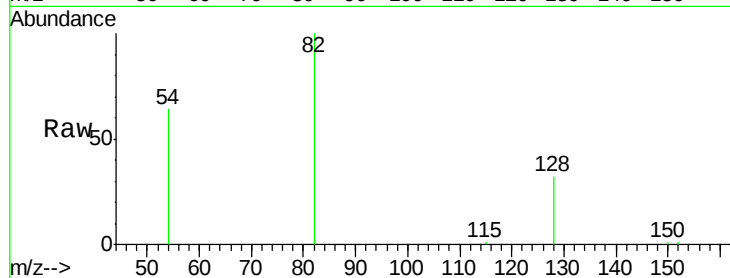
Tgt Ion: 82 Resp: 13118

Ion Ratio Lower Upper

82 100

128 31.9 33.0 49.4#

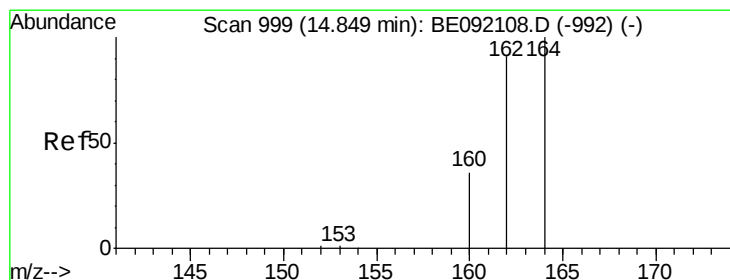
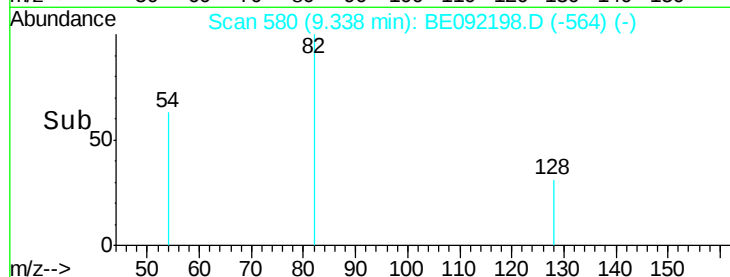
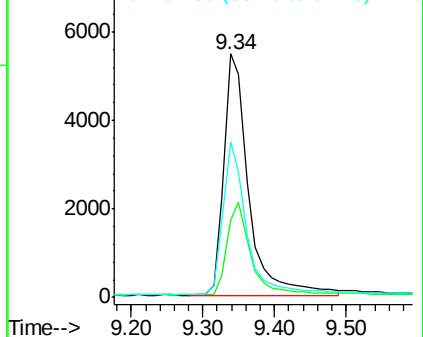
54 63.8 42.6 63.8



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



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

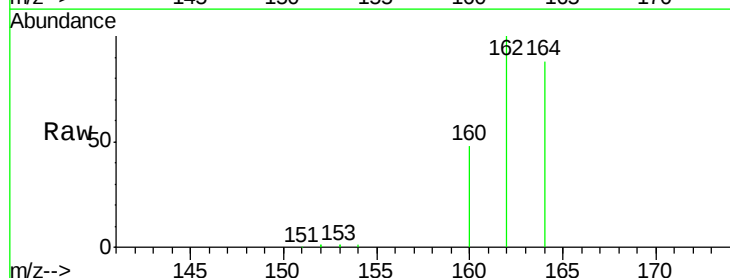
Tgt Ion: 164 Resp: 28080

Ion Ratio Lower Upper

164 100

162 113.4 69.5 104.3#

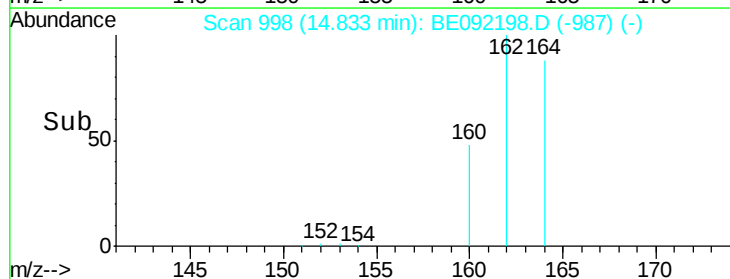
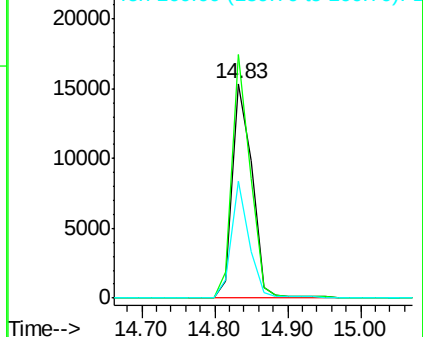
160 54.2 27.6 41.4#

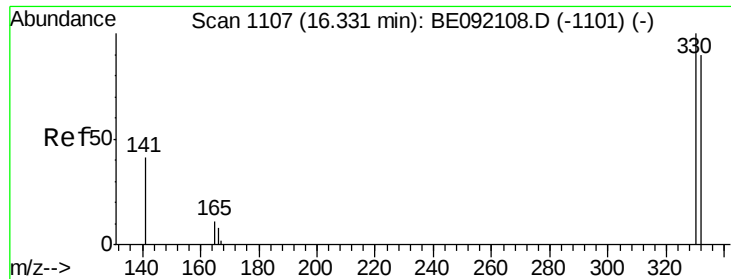


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

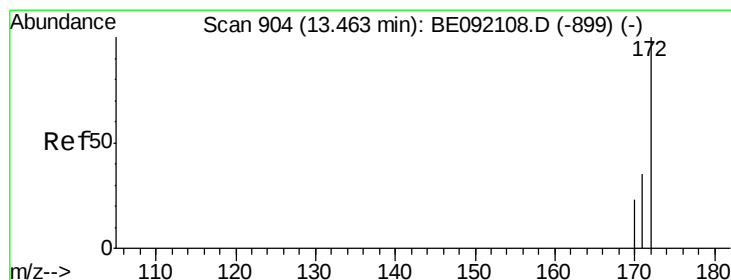
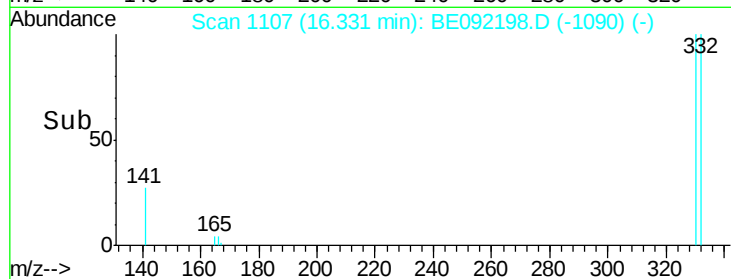
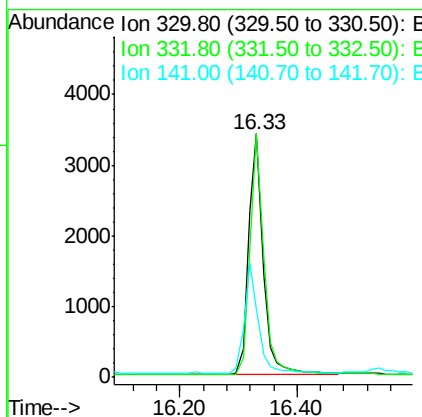
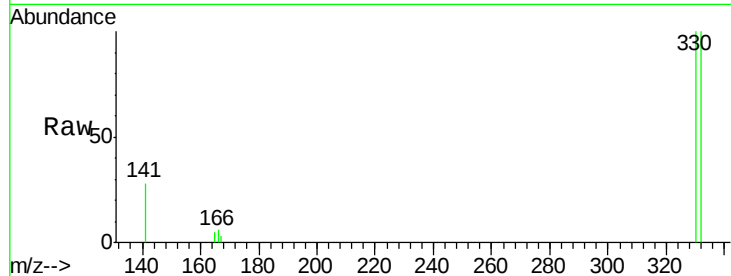




#11  
 2,4,6-Tribromophenol  
 Concen: 6.41 ng  
 RT: 16.33 min Scan# 1107  
 Delta R.T. 0.00 min  
 Lab File: BE092198.D  
 Acq: 5 Aug 2016 00:58

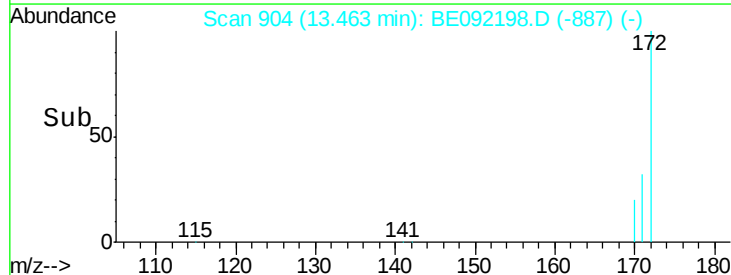
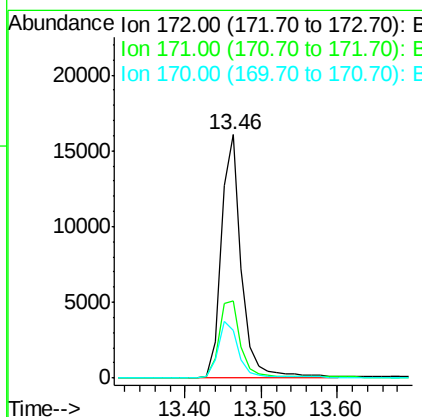
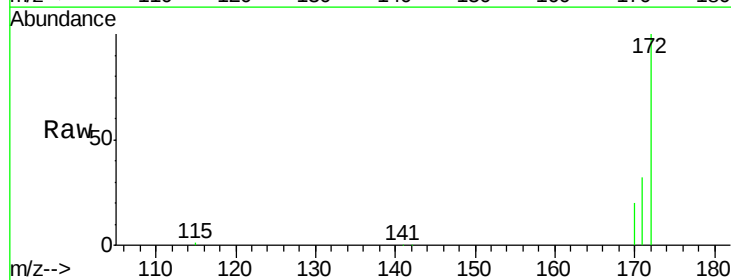
Instrument :  
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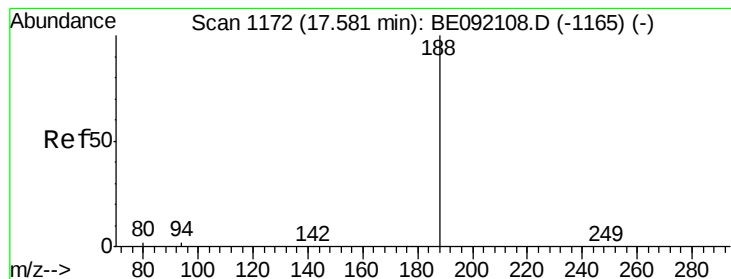
Tgt Ion:330 Resp: 5842  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 74.2 111.4  
 141 44.3 139.8 209.8#



#12  
 2-Fluorobiphenyl  
 Concen: 3.35 ng  
 RT: 13.46 min Scan# 904  
 Delta R.T. -0.00 min  
 Lab File: BE092198.D  
 Acq: 5 Aug 2016 00:58

Tgt Ion:172 Resp: 29854  
 Ion Ratio Lower Upper  
 172 100  
 171 31.8 30.3 45.5  
 170 19.7 21.6 32.4#





#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

Instrument :

BNA\_E

ClientSampleId :

GW-57-13.8-18.5

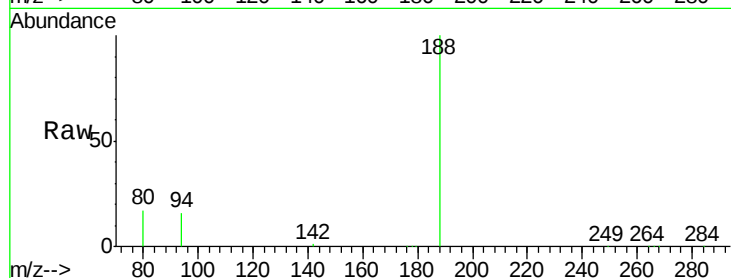
Tgt Ion:188 Resp: 63380

Ion Ratio Lower Upper

188 100

94 16.0 3.9 5.9#

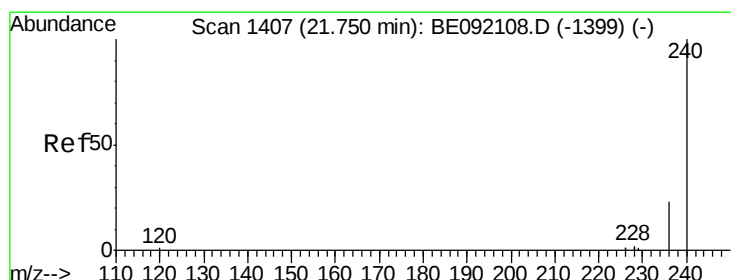
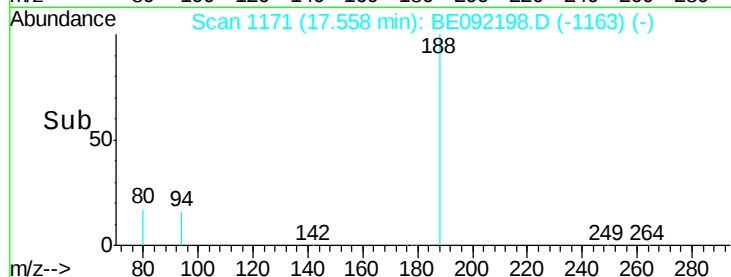
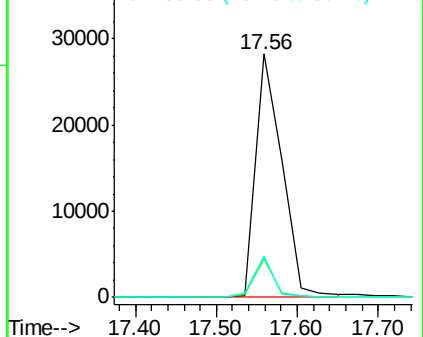
80 16.9 3.4 5.0#



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



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1407

Delta R.T. -0.00 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

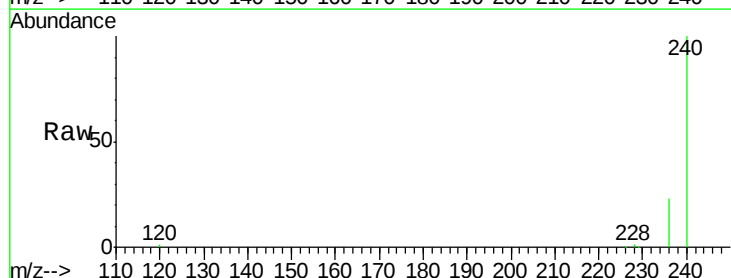
Tgt Ion:240 Resp: 81901

Ion Ratio Lower Upper

240 100

120 1.4 0.6 1.0#

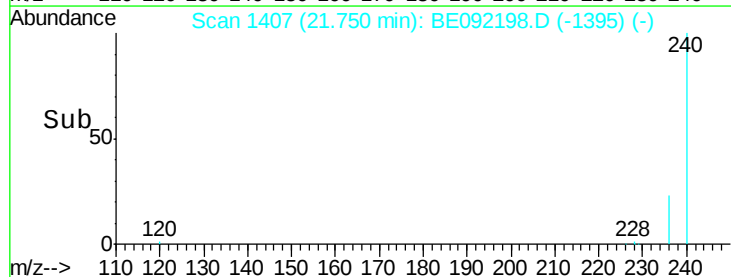
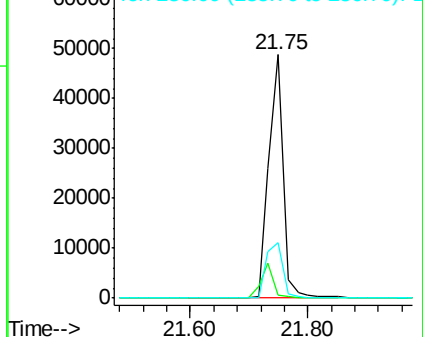
236 23.0 18.2 27.4

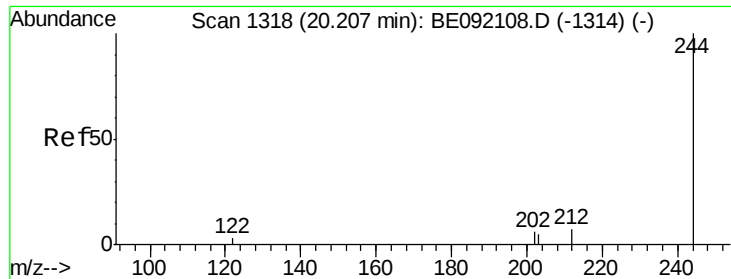


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#24

Terphenyl-d14

Concen: 4.00 ng

RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

Instrument :

BNA\_E

ClientSampleId :

GW-57-13.8-18.5

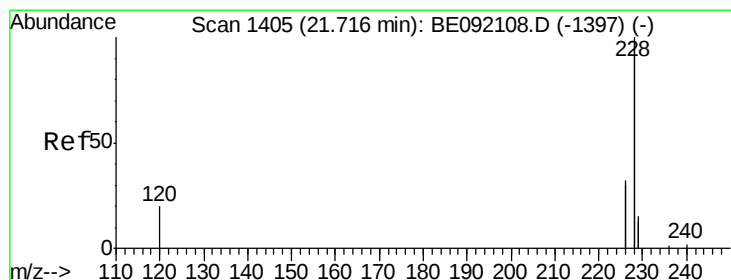
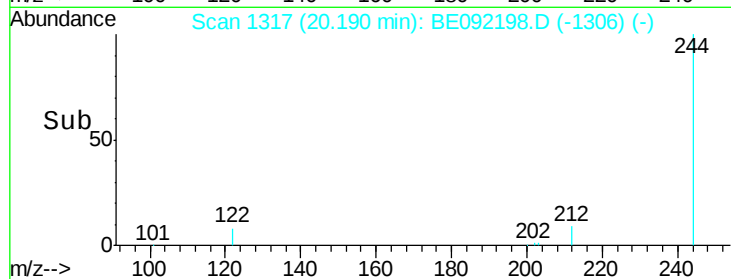
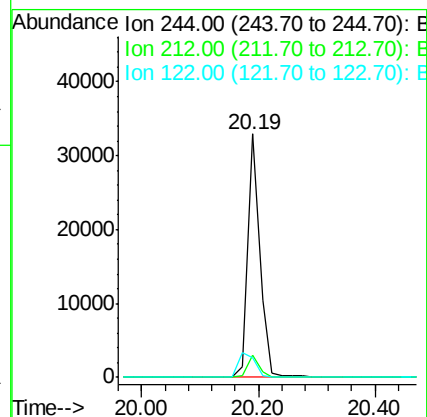
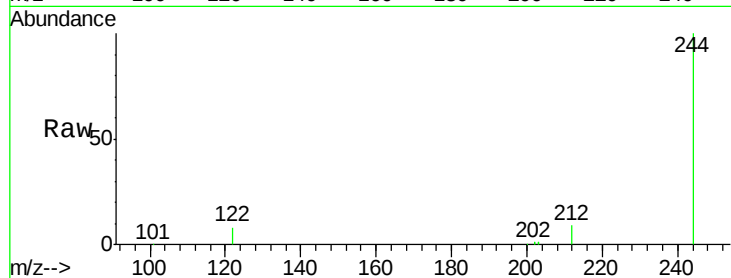
Tgt Ion:244 Resp: 46994

Ion Ratio Lower Upper

244 100

212 8.9 9.1 13.7#

122 7.9 11.0 16.4#



#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.73 min Scan# 1406

Delta R.T. 0.02 min

Lab File: BE092198.D

Acq: 5 Aug 2016 00:58

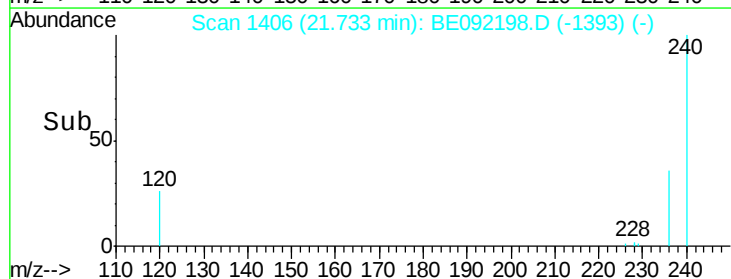
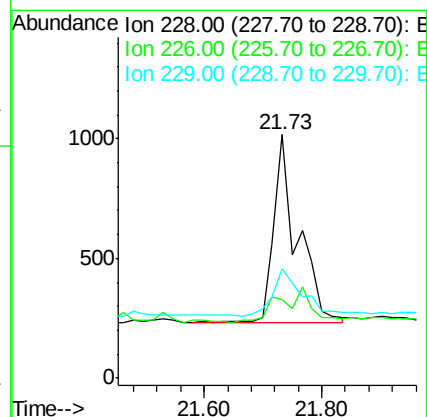
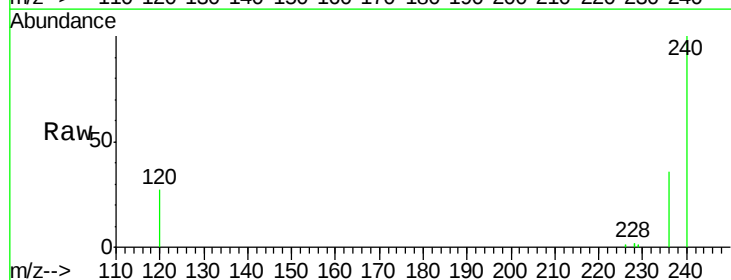
Tgt Ion:228 Resp: 2179

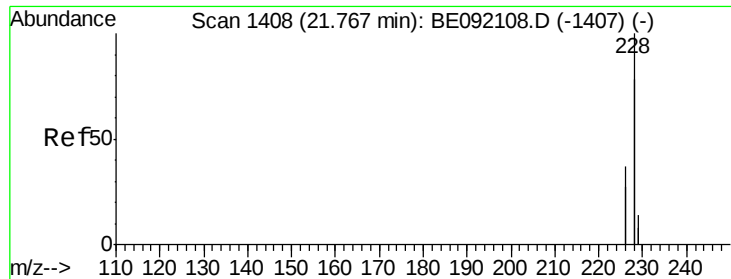
Ion Ratio Lower Upper

228 100

226 32.4 22.1 33.1

229 44.8 15.1 22.7#

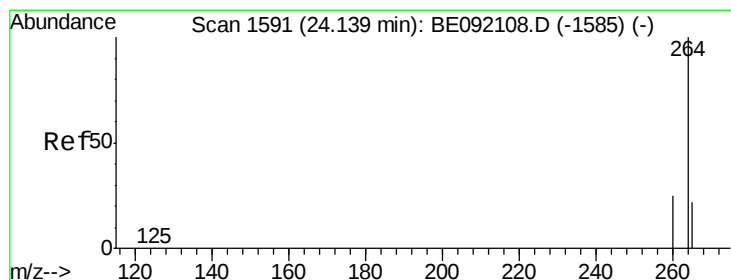
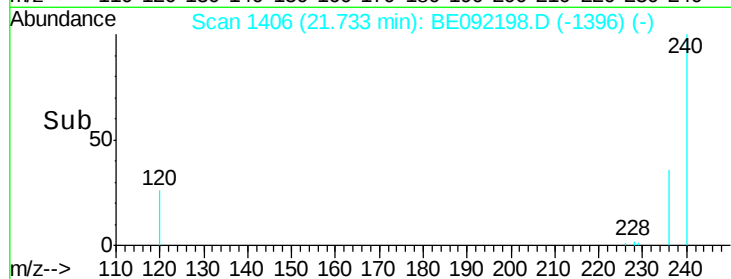
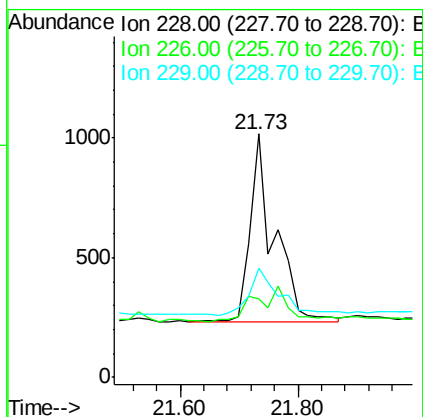
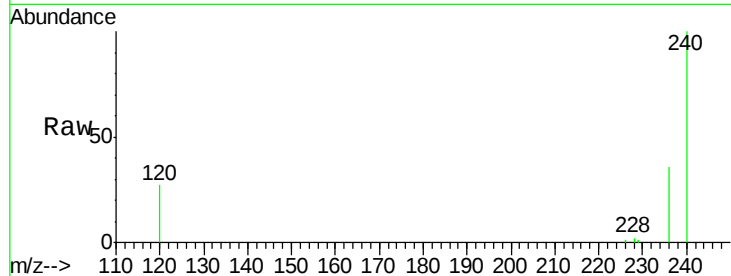




#26  
Chrysene  
Concen: 0.02 ng  
RT: 21.73 min Scan# 1406  
Delta R.T. -0.03 min  
Lab File: BE092198.D  
Acq: 5 Aug 2016 00:58

Instrument :  
BNA\_E  
ClientSampleId :  
GW-57-13.8-18.5

Tgt Ion: 228 Resp: 2211  
Ion Ratio Lower Upper  
228 100  
226 32.4 22.3 33.5  
229 44.8 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: BE092198.D  
Acq: 5 Aug 2016 00:58

Tgt Ion: 264 Resp: 83076  
Ion Ratio Lower Upper  
264 100  
260 24.1 20.8 31.2  
265 22.7 16.6 25.0

