

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE080216\  
 Data File : BE092127.D  
 Acq On : 3 Aug 2016 1:11  
 Operator : UM/SJ  
 Sample : H4152-13  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-18-6.0-15.0

Quant Time: Aug 03 03:55:20 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

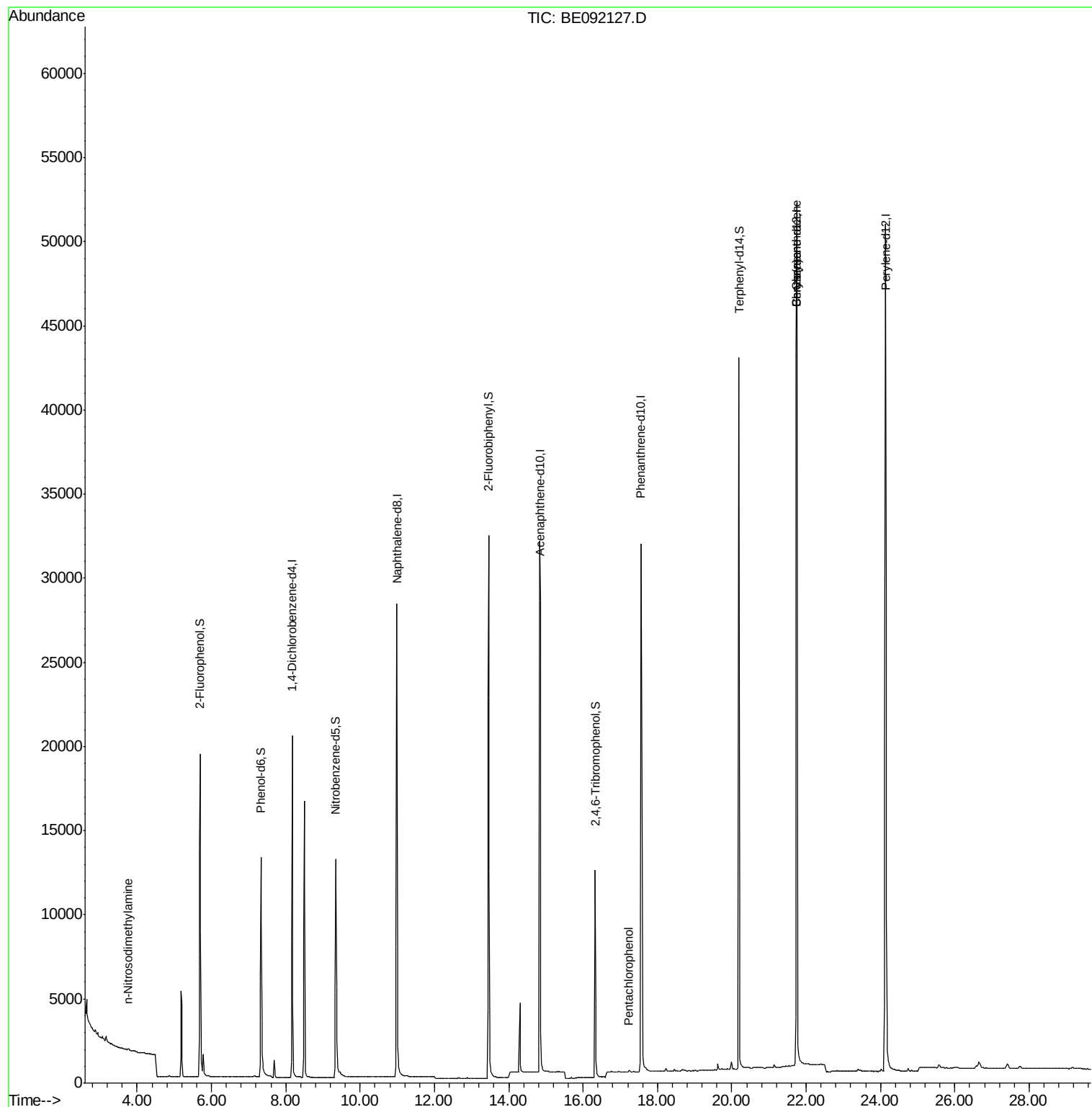
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.17  | 152  | 10780    | 5.00      | ng    | 0.00     |
| 6) Naphthalene-d8           | 10.99 | 136  | 47937    | 5.00      | ng    | 0.00     |
| 10) Acenaphthene-d10        | 14.85 | 164  | 25907    | 5.00      | ng    | 0.00     |
| 16) Phenanthrene-d10        | 17.56 | 188  | 56770    | 5.00      | ng    | -0.02    |
| 22) Chrysene-d12            | 21.75 | 240  | 73565    | 5.00      | ng    | 0.00     |
| 28) Perylene-d12            | 24.14 | 264  | 77645    | 5.00      | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 4) 2-Fluorophenol           | 5.69  | 112  | 16586    | 5.99      | ng    | 0.00     |
| 5) Phenol-d6                | 7.34  | 99   | 15544    | 4.21      | ng    | -0.01    |
| 7) Nitrobenzene-d5          | 9.34  | 82   | 14802    | 3.91      | ng    | -0.01    |
| 11) 2,4,6-Tribromophenol    | 16.33 | 330  | 8427     | 10.02     | ng    | 0.00     |
| 12) 2-Fluorobiphenyl        | 13.46 | 172  | 33956    | 4.14      | ng    | 0.00     |
| 24) Terphenyl-d14           | 20.19 | 244  | 49046    | 4.64      | ng    | -0.02    |
| Target Compounds            |       |      |          |           |       |          |
| 3) n-Nitrosodimethylamine   | 3.74  | 42   | 60       | 0.12      | ng    | # 1      |
| 8) Naphthalene              | 11.03 | 128  | 71       | Below Cal | #     | 1        |
| 18) Pentachlorophenol       | 17.24 | 266  | 87       | 0.27      | ng    | 96       |
| 19) Phenanthrene            | 17.60 | 178  | 258      | Below Cal | #     | 73       |
| 25) Benzo(a)anthracene      | 21.73 | 228  | 1663     | 0.02      | ng    | # 66     |
| 26) Chrysene                | 21.73 | 228  | 1663     | 0.02      | ng    | # 68     |
| 30) Benzo(k)fluoranthene    | 23.45 | 252  | 133      | Below Cal | #     | 1        |

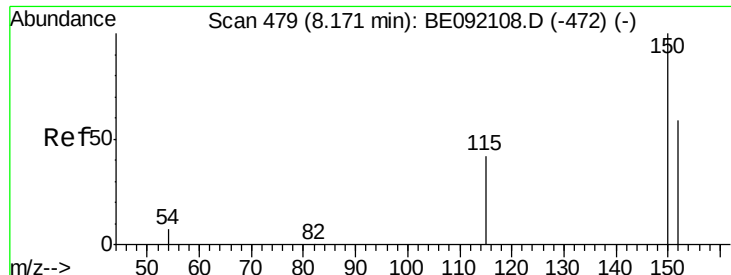
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

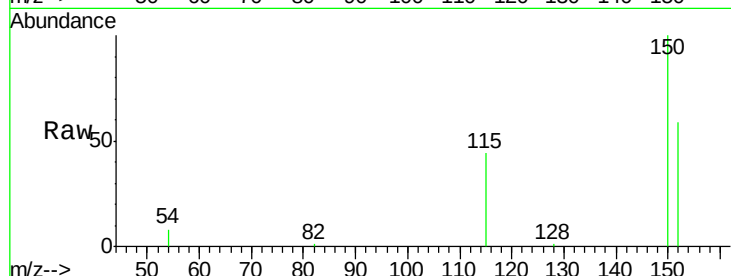
Tgt Ion:152 Resp: 10780

Ion Ratio Lower Upper

152 100

150 170.0 106.0 159.0#

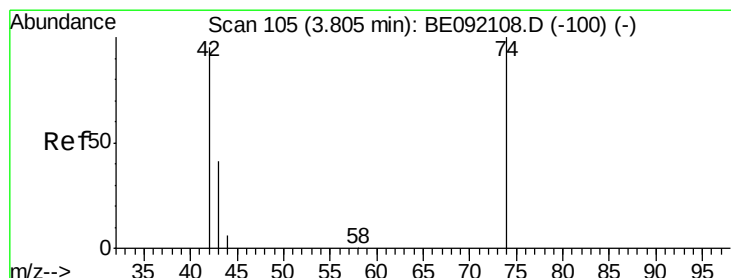
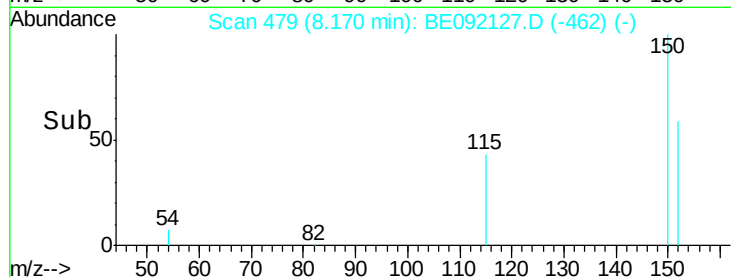
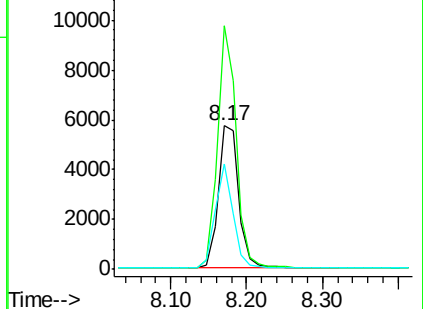
115 73.9 36.9 55.3#



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



#3

n-Nitrosodimethylamine

Concen: 0.12 ng

RT: 3.74 min Scan# 100

Delta R.T. -0.06 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

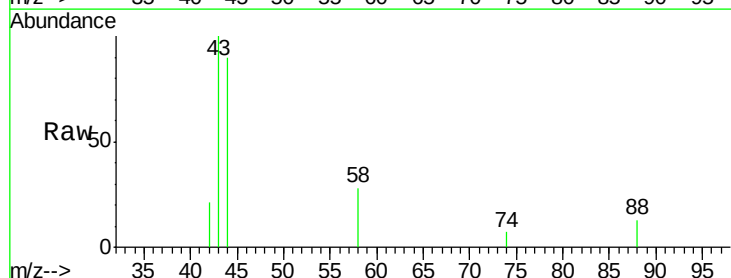
Tgt Ion: 42 Resp: 60

Ion Ratio Lower Upper

42 100

74 8.3 82.8 124.2#

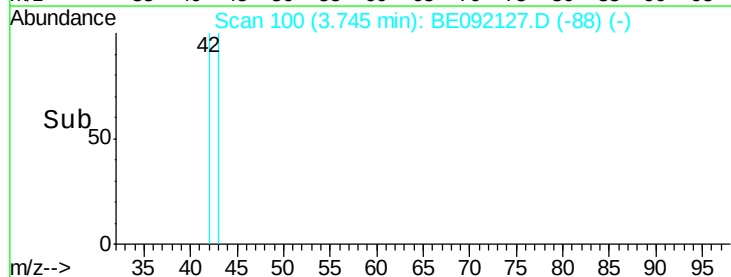
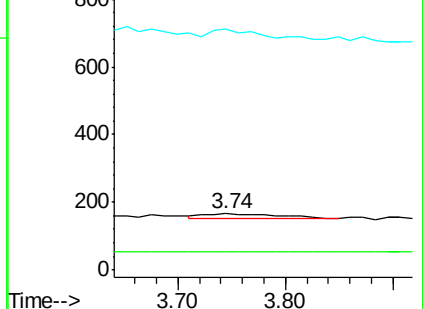
44 160.0 9.0 13.4#

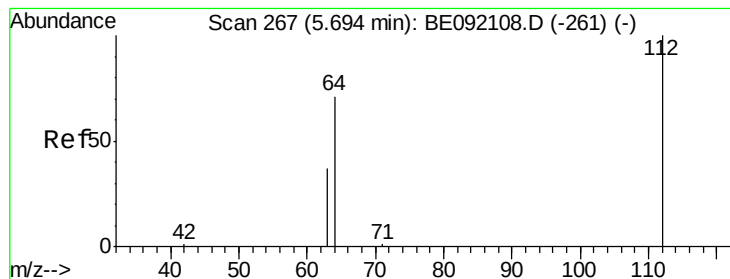


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 5.99 ng

RT: 5.69 min Scan# 267

Delta R.T. -0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

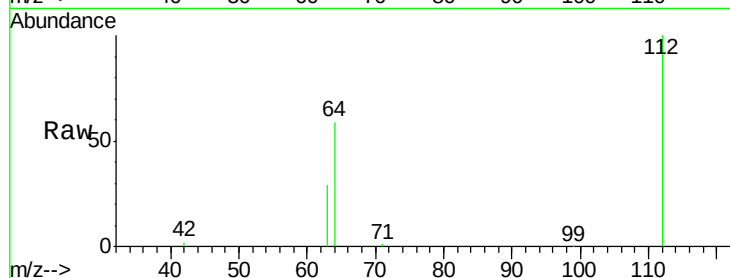
Tgt Ion: 112 Resp: 16586

Ion Ratio Lower Upper

112 100

64 66.8 55.9 83.9

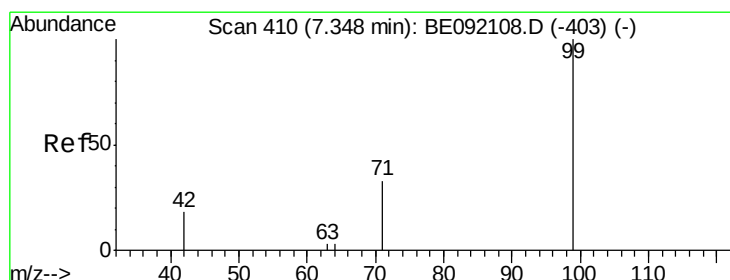
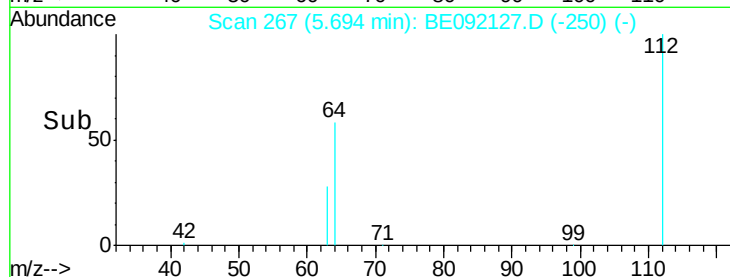
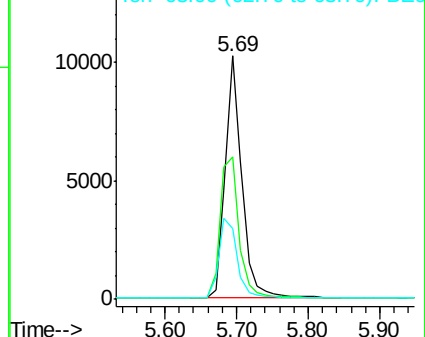
63 36.4 31.1 46.7



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 4.21 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

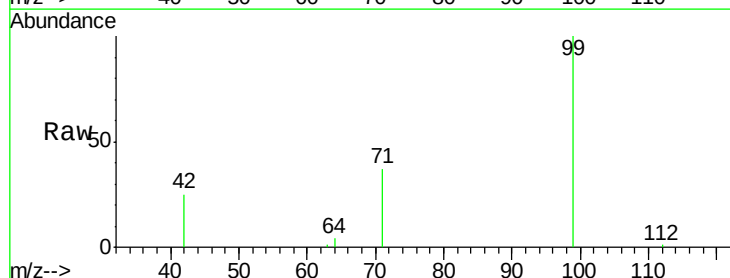
Tgt Ion: 99 Resp: 15544

Ion Ratio Lower Upper

99 100

42 24.4 22.4 33.6

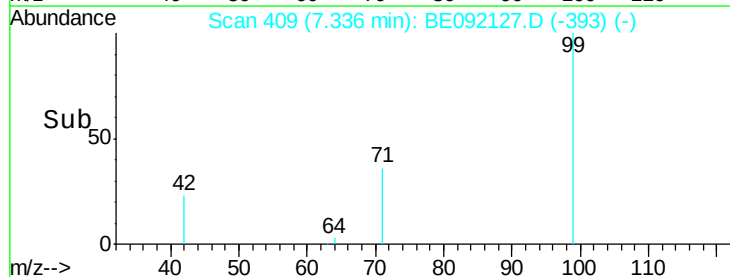
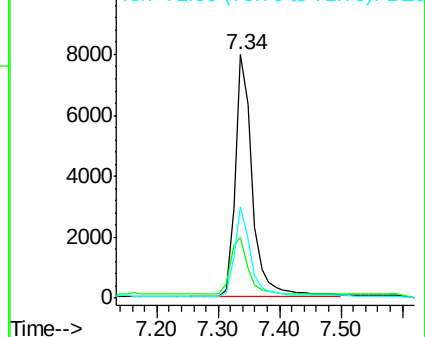
71 34.8 28.9 43.3

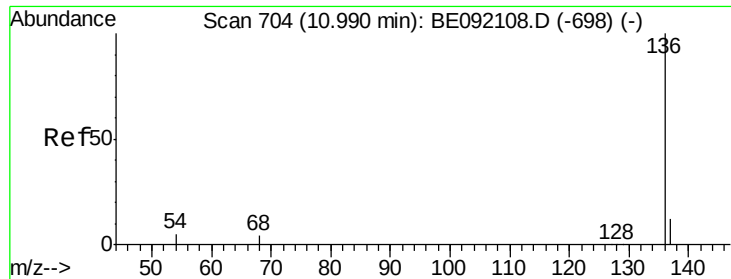


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: 10.99 min Scan# 704

Delta R.T. -0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

Tgt Ion: 136 Resp: 47937

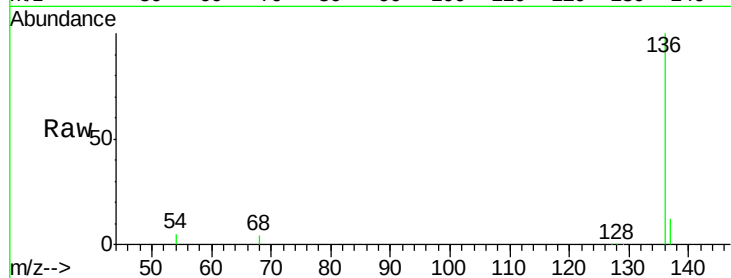
Ion Ratio Lower Upper

136 100

137 11.8 9.1 13.7

54 4.7 2.7 4.1#

68 3.7 2.2 3.4#

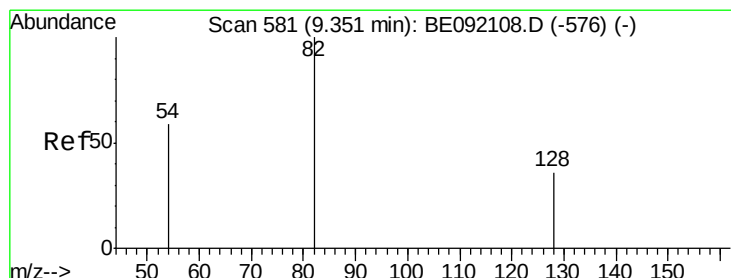
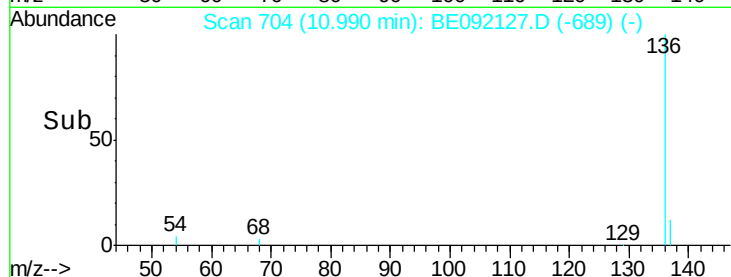
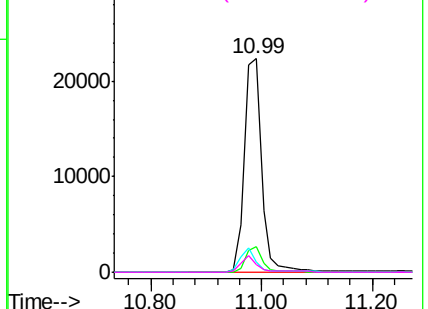


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#7

Nitrobenzene-d5

Concen: 3.91 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

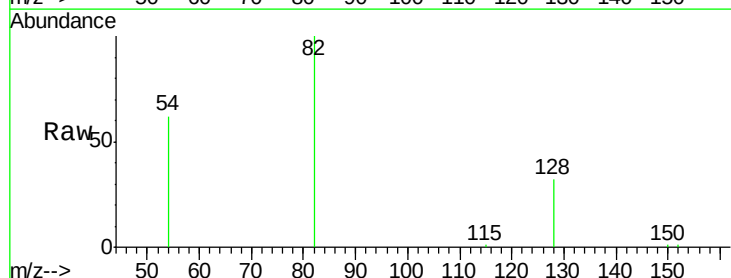
Tgt Ion: 82 Resp: 14802

Ion Ratio Lower Upper

82 100

128 31.5 33.0 49.4#

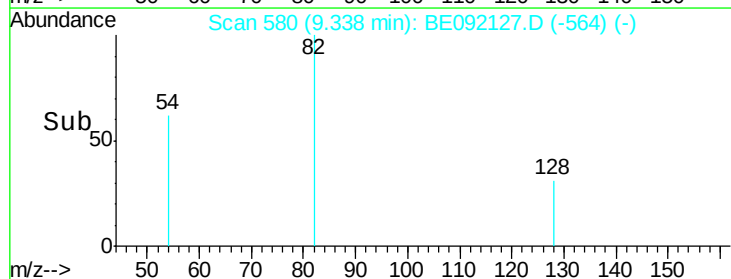
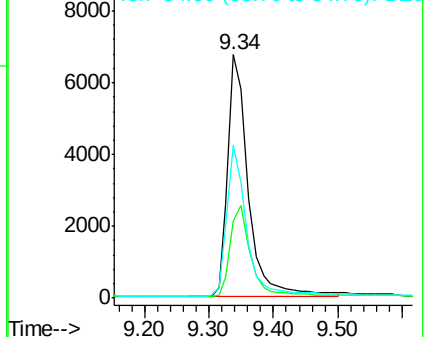
54 62.5 42.6 63.8

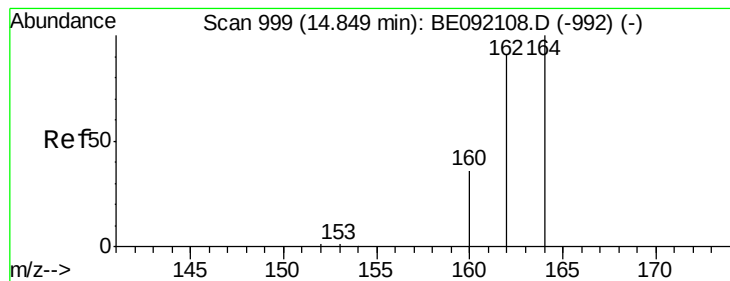


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.85 min Scan# 999

Delta R.T. -0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

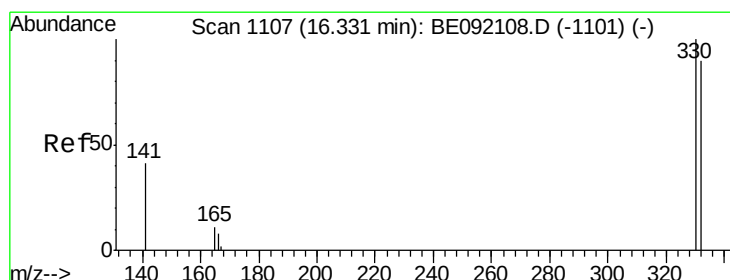
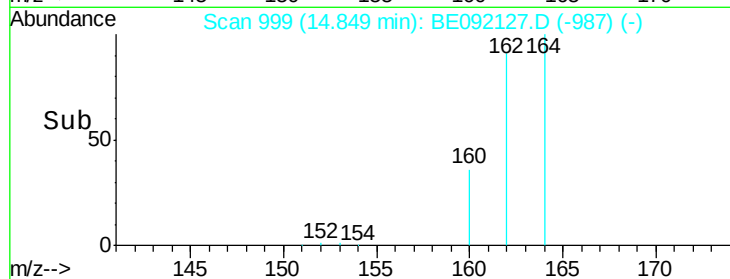
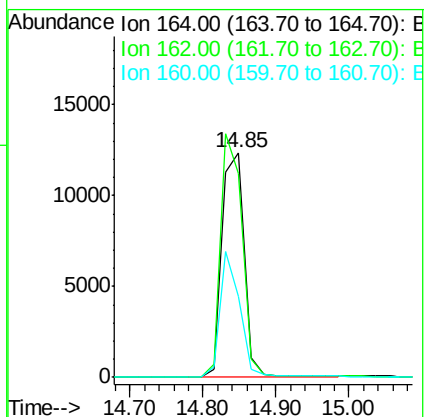
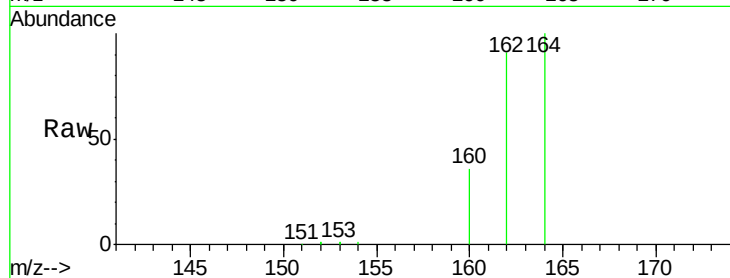
Tgt Ion:164 Resp: 25907

Ion Ratio Lower Upper

164 100

162 91.0 69.5 104.3

160 36.3 27.6 41.4



#11

2,4,6-Tribromophenol

Concen: 10.02 ng

RT: 16.33 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

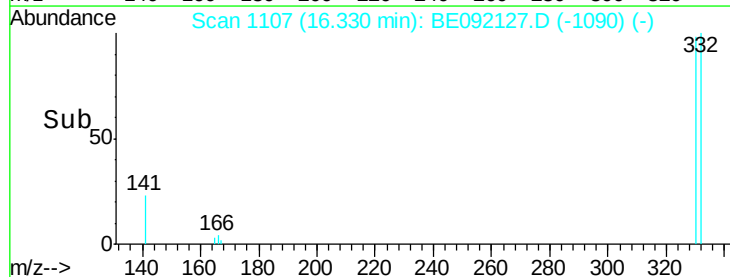
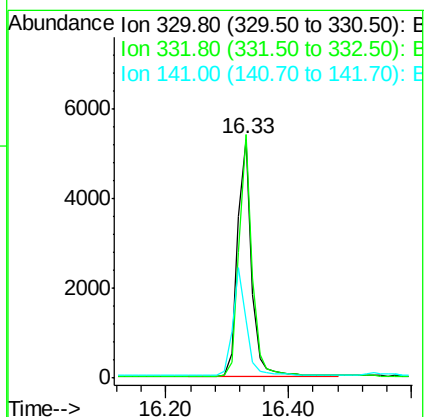
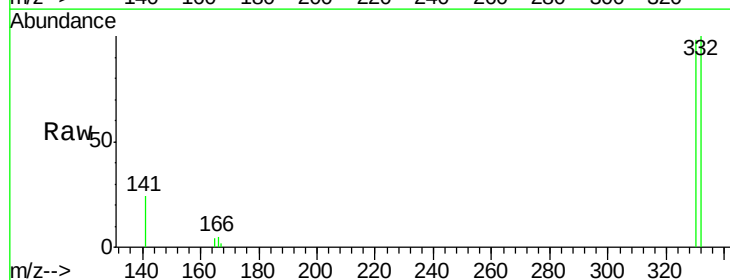
Tgt Ion:330 Resp: 8427

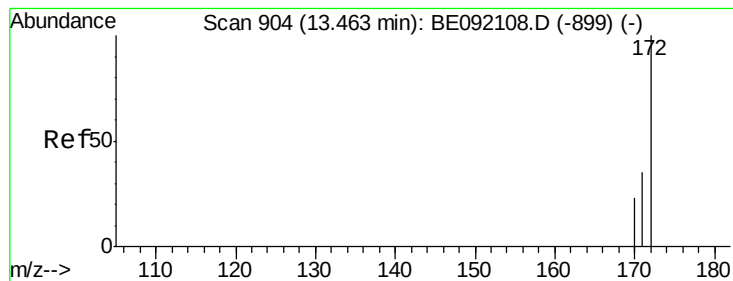
Ion Ratio Lower Upper

330 100

332 96.4 74.2 111.4

141 43.1 139.8 209.8#





#12

2-Fluorobiphenyl

Concen: 4.14 ng

RT: 13.46 min Scan# 904

Delta R.T. -0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

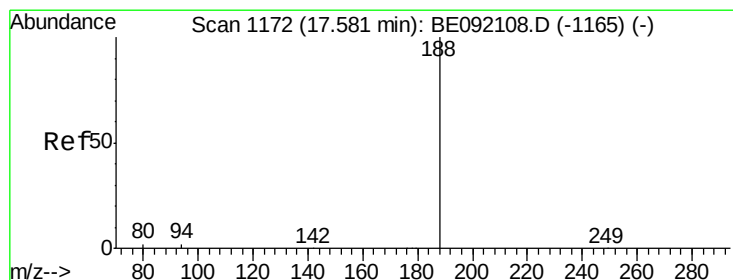
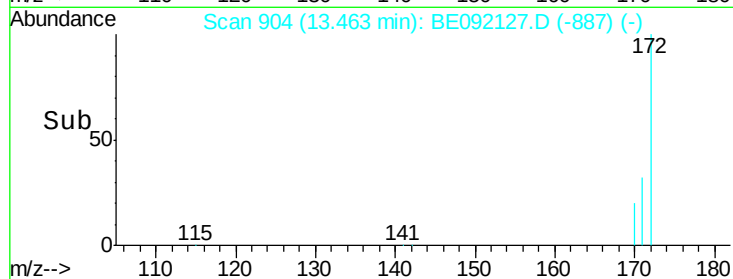
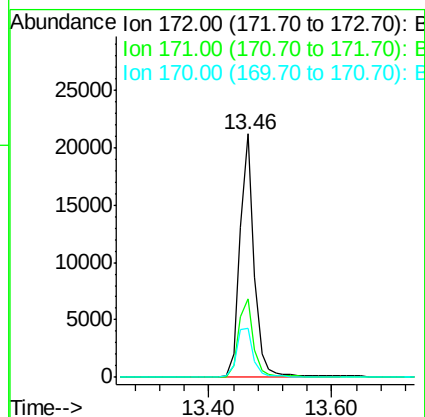
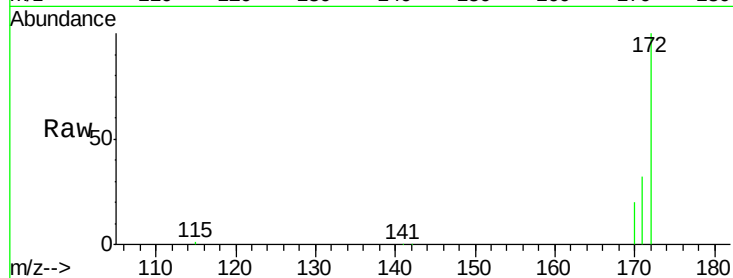
Tgt Ion:172 Resp: 33956

Ion Ratio Lower Upper

172 100

171 32.3 30.3 45.5

170 20.2 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: BE092127.D

Acq: 3 Aug 2016 1:11

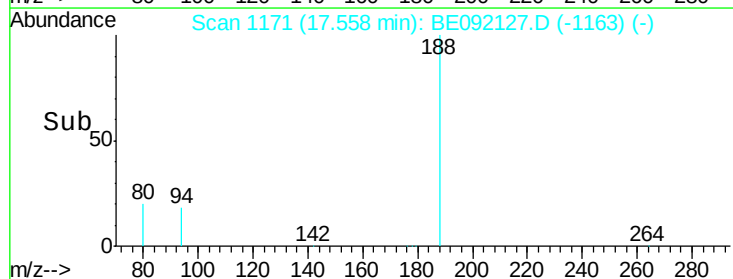
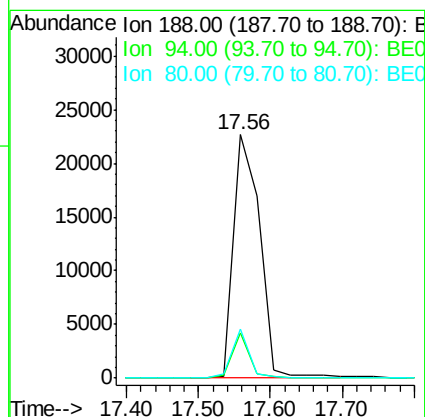
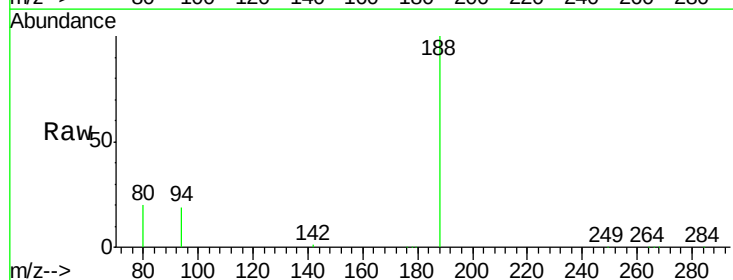
Tgt Ion:188 Resp: 56770

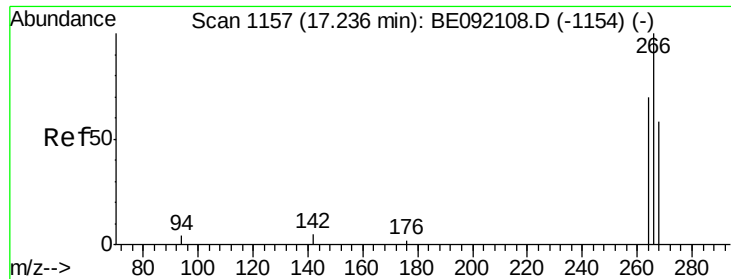
Ion Ratio Lower Upper

188 100

94 18.8 3.9 5.9#

80 20.0 3.4 5.0#





#18

Pentachlorophenol

Concen: 0.27 ng

RT: 17.24 min Scan# 1157

Delta R.T. 0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

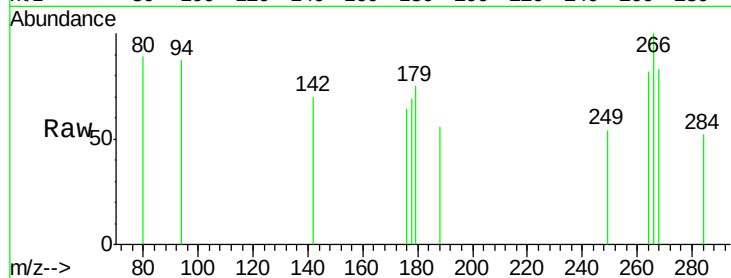
Tgt Ion: 266 Resp: 87

Ion Ratio Lower Upper

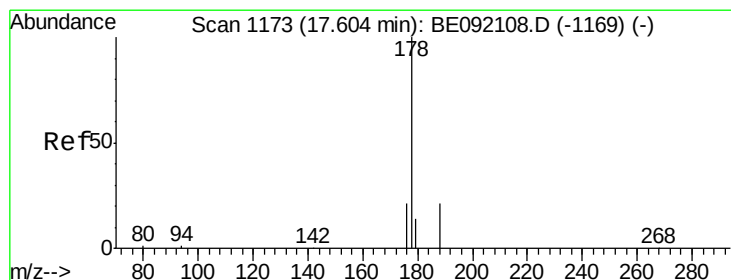
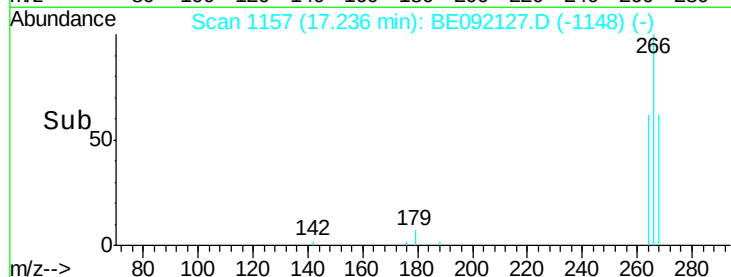
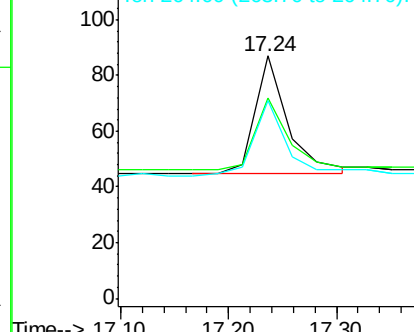
266 100

268 82.8 62.7 94.1

264 81.6 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: Below Cal

RT: 17.60 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

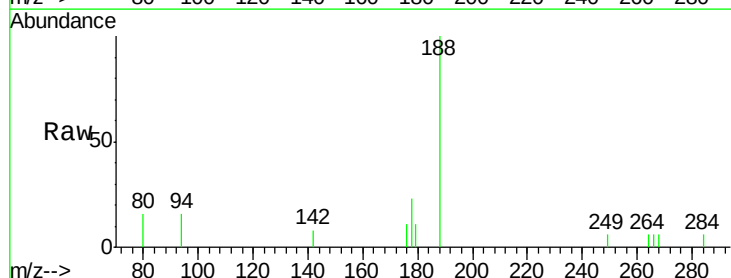
Tgt Ion: 178 Resp: 258

Ion Ratio Lower Upper

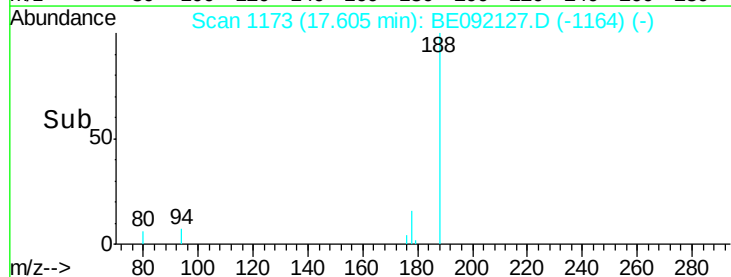
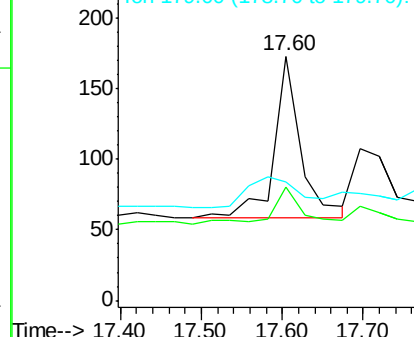
178 100

176 27.1 15.4 23.0#

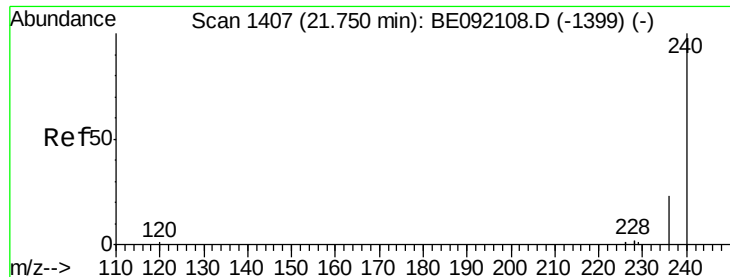
179 0.0 12.7 19.1#



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







#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1407

Delta R.T. -0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

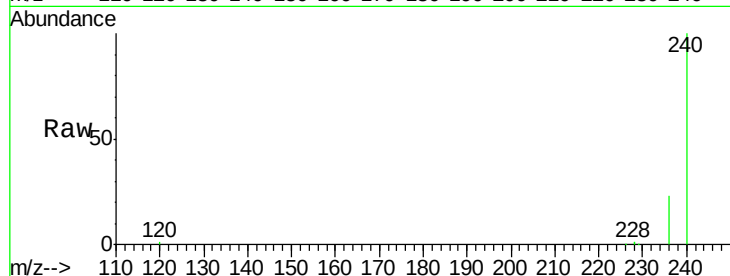
Tgt Ion:240 Resp: 73565

Ion Ratio Lower Upper

240 100

120 1.3 0.6 1.0#

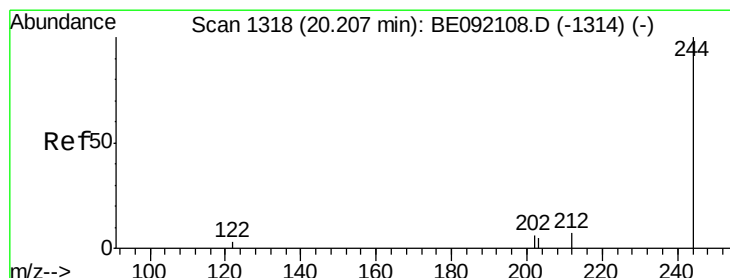
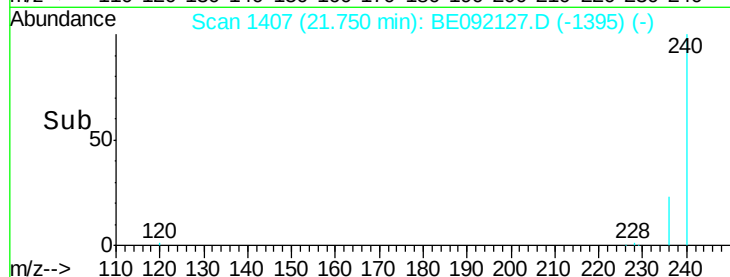
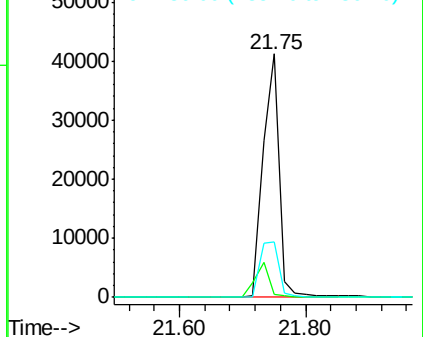
236 22.9 18.2 27.4



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: 4.64 ng

RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

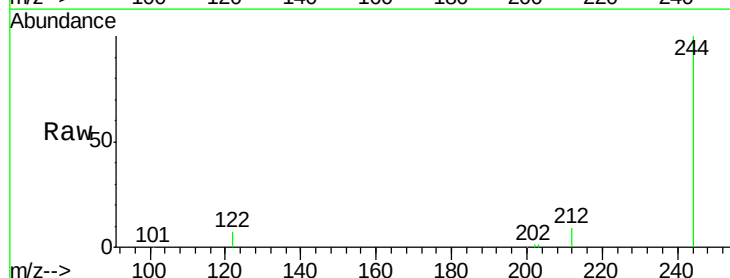
Tgt Ion:244 Resp: 49046

Ion Ratio Lower Upper

244 100

212 9.0 9.1 13.7#

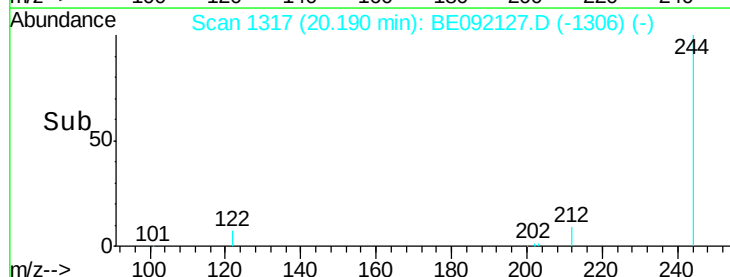
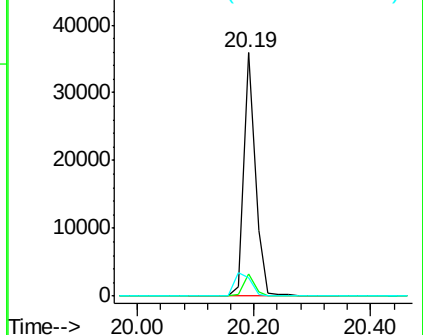
122 7.4 11.0 16.4#

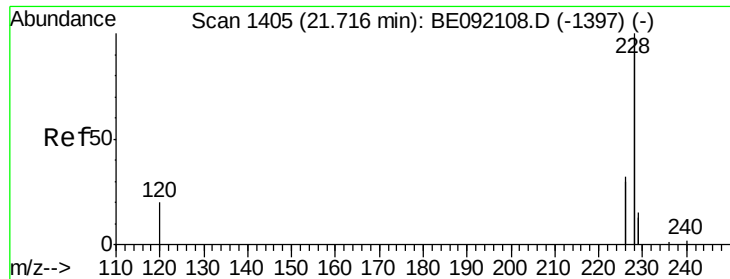


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.73 min Scan# 1406

Delta R.T. 0.02 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

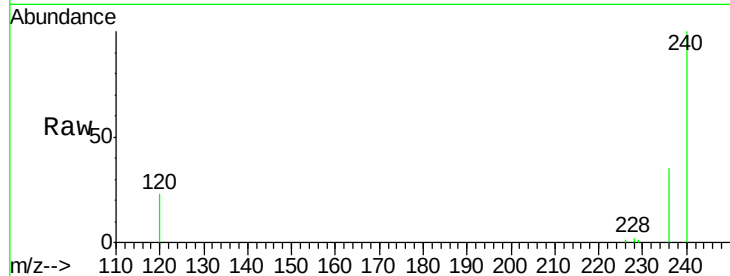
Tgt Ion:228 Resp: 1663

Ion Ratio Lower Upper

228 100

226 33.7 22.1 33.1#

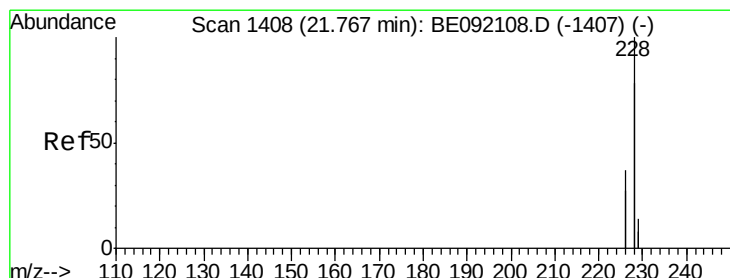
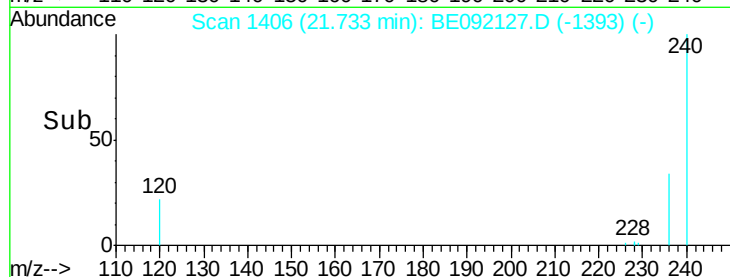
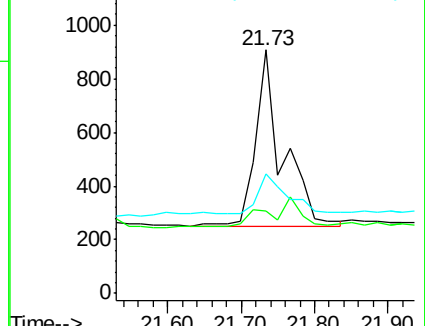
229 48.9 15.1 22.7#



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



#26

Chrysene

Concen: 0.02 ng

RT: 21.73 min Scan# 1406

Delta R.T. -0.03 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

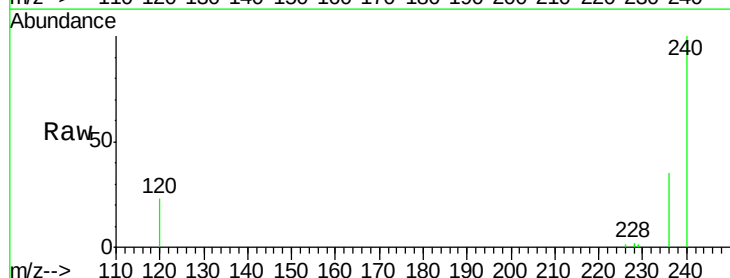
Tgt Ion:228 Resp: 1663

Ion Ratio Lower Upper

228 100

226 33.7 22.3 33.5#

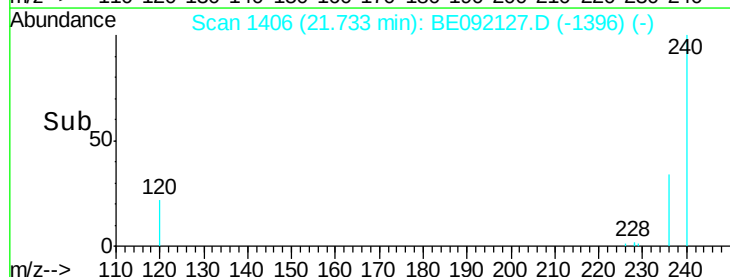
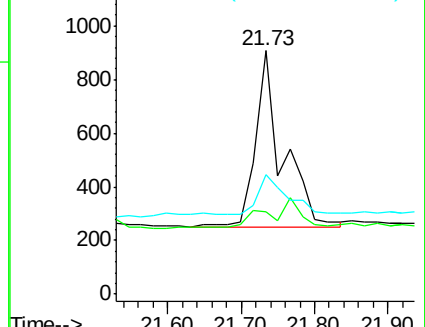
229 48.9 16.9 25.3#

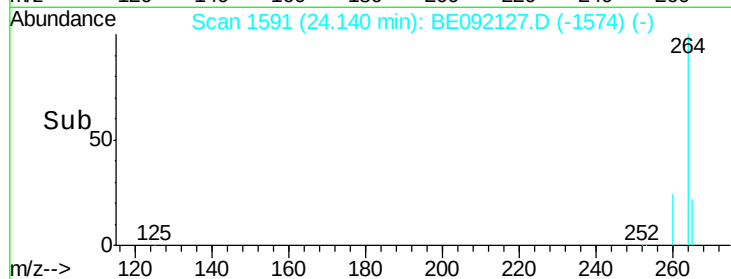
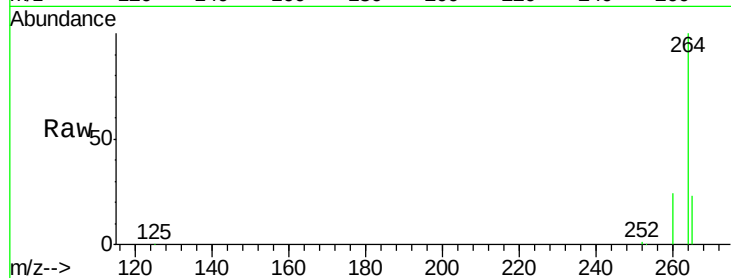
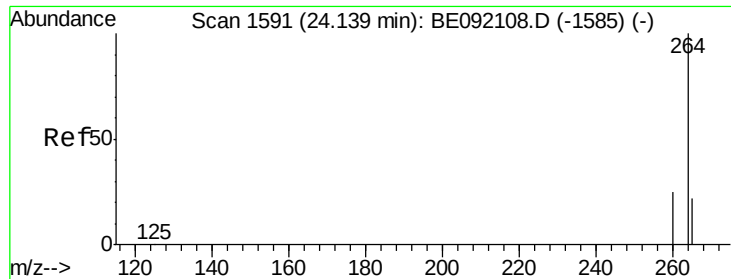


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#28

Perylene-d12

Concen: 5.00 ng

RT: 24.14 min Scan# 1591

Delta R.T. 0.00 min

Lab File: BE092127.D

Acq: 3 Aug 2016 1:11

Instrument :

BNA\_E

ClientSampleId :

GW-18-6.0-15.0

Tgt Ion: 264 Resp: 77645

Ion Ratio Lower Upper

264 100

260 24.2 20.8 31.2

265 22.6 16.6 25.0

