

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071618\  
 Data File : BE096945.D  
 Acq On : 16 Jul 2018 19:33  
 Operator : SJ/JU  
 Sample : J3170-14RE  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW02-071118RE

Quant Time: Jul 17 16:42:28 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 17 15:02:56 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 2036     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 9687     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.03 | 164  | 5189     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.77 | 188  | 14867    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 20.98 | 240  | 13512    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 13910    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.05  | 112 | 987   | 0.20 | ng | 0.00 |
| 5) Phenol-d6                | 6.59  | 99  | 872   | 0.12 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.52  | 82  | 3462  | 0.49 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.73 | 152 | 6692  | 0.47 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330 | 674   | 0.56 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.64 | 172 | 9771  | 0.51 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.81 | 212 | 78147 | 0.60 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.43 | 244 | 16130 | 0.62 | ng | 0.00 |

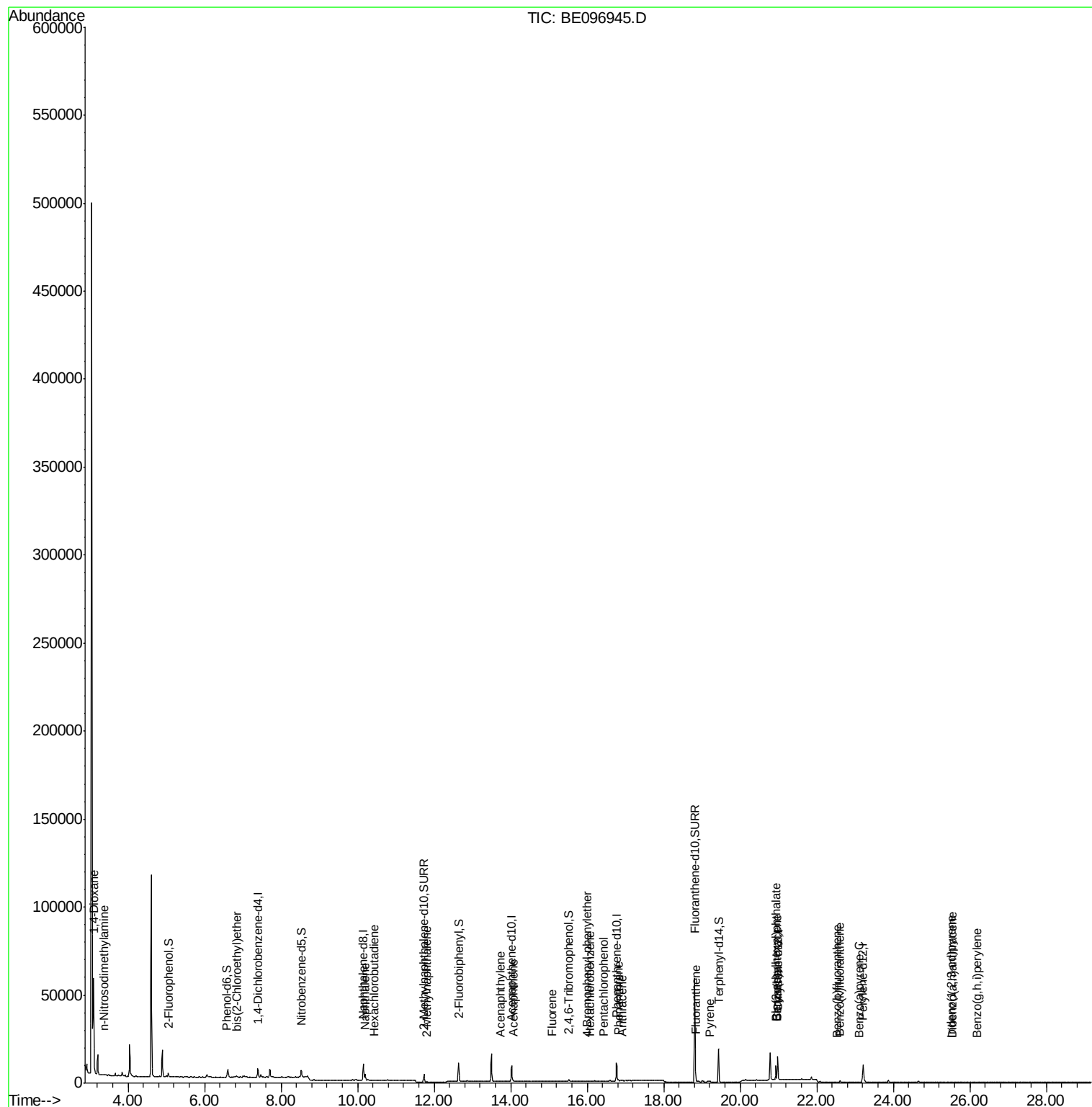
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.10  | 88  | 25589 | 8.780  | ng | # 88 |
| 3) n-Nitrosodimethylamine      | 3.36  | 42  | 73    | 0.022  | ng | # 20 |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93  | 274   | 0.038  | ng | # 91 |
| 9) Naphthalene                 | 10.20 | 128 | 5400  | 0.062  | ng | # 97 |
| 10) Hexachlorobutadiene        | 10.44 | 225 | 6     | 0.002  | ng | # 56 |
| 12) 2-Methylnaphthalene        | 11.81 | 142 | 439   | 0.030  | ng | # 92 |
| 16) Acenaphthylene             | 13.74 | 152 | 72    | 0.003  | ng | # 54 |
| 17) Acenaphthene               | 14.08 | 154 | 66    | 0.004  | ng | # 72 |
| 18) Fluorene                   | 15.08 | 166 | 164   | 0.010  | ng | # 83 |
| 20) 4-Bromophenyl-phenylether  | 16.00 | 248 | 3     | 0.000  | ng | # 24 |
| 21) Hexachlorobenzene          | 16.08 | 284 | 9     | 0.001  | ng | # 1  |
| 22) Pentachlorophenol          | 16.44 | 266 | 34    | 0.008  | ng | # 97 |
| 23) Phenanthrene               | 16.81 | 178 | 694   | 0.019  | ng | # 82 |
| 24) Anthracene                 | 16.91 | 178 | 78    | 0.003  | ng | # 77 |
| 26) Fluoranthene               | 18.84 | 202 | 175   | 0.005  | ng | # 85 |
| 28) Pyrene                     | 19.20 | 202 | 144   | 0.004  | ng | # 84 |
| 30) Benzo(a)anthracene         | 20.97 | 228 | 129   | 0.004  | ng | # 29 |
| 31) Chrysene                   | 20.97 | 228 | 96    | 0.003  | ng | # 29 |
| 32) Bis(2-ethylhexyl)phthalate | 20.93 | 149 | 8392  | 0.261  | ng | # 99 |
| 33) Indeno(1,2,3-cd)pyrene     | 25.51 | 276 | 23    | 0.001  | ng | # 74 |
| 35) Benzo(b)fluoranthene       | 22.54 | 252 | 96    | 0.003  | ng | # 1  |
| 36) Benzo(k)fluoranthene       | 22.61 | 252 | 129   | 0.003  | ng | # 1  |
| 37) Benzo(a)pyrene             | 23.10 | 252 | 11    | 0.102  | ng | # 1  |
| 38) Dibenzo(a,h)anthracene     | 25.53 | 278 | 24    | 0.118  | ng | # 1  |
| 39) Benzo(g,h,i)perylene       | 26.20 | 276 | 17    | 0.001  | ng | # 1  |

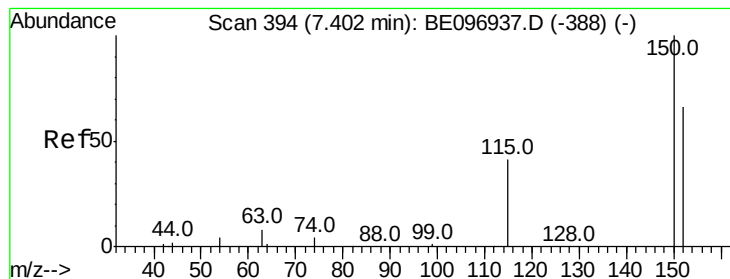
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 17 15:02:56 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.39 min Scan# 393

Delta R.T. -0.01 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

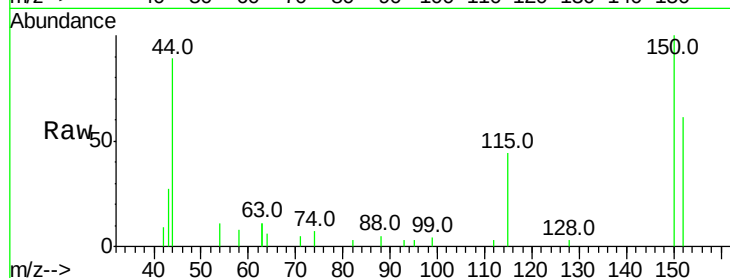
Tot Ion:152 Resp: 2036

Ion Ratio Lower Upper

152 100

150 165.2 117.2 175.8

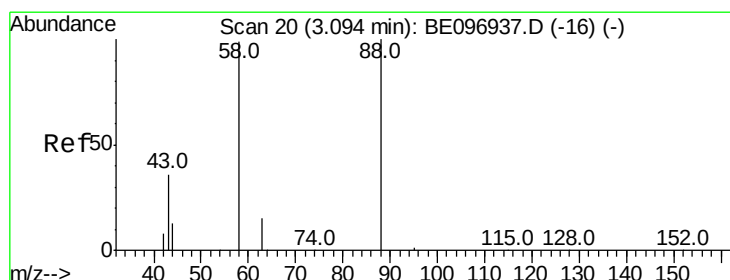
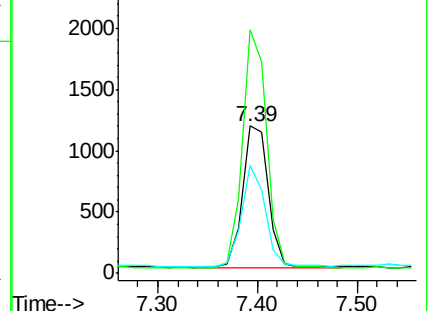
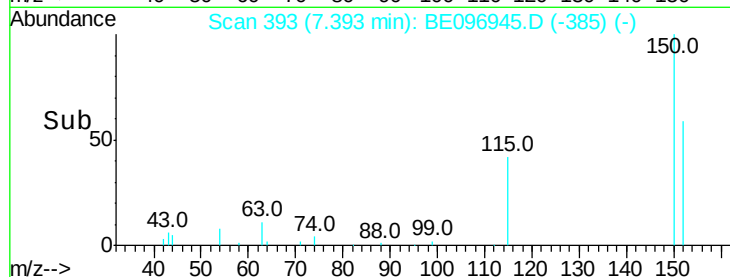
115 73.3 57.0 85.6



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: 8.780 ng

RT: 3.10 min Scan# 20

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

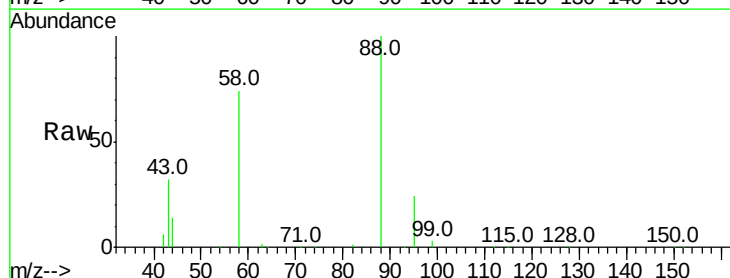
Tgt Ion: 88 Resp: 25589

Ion Ratio Lower Upper

88 100

58 81.7 63.2 94.8

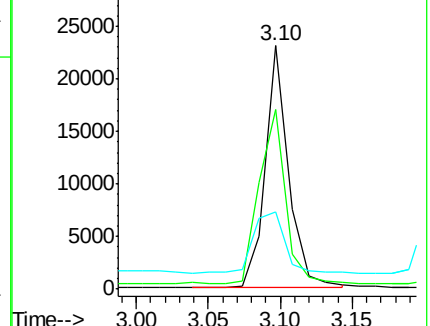
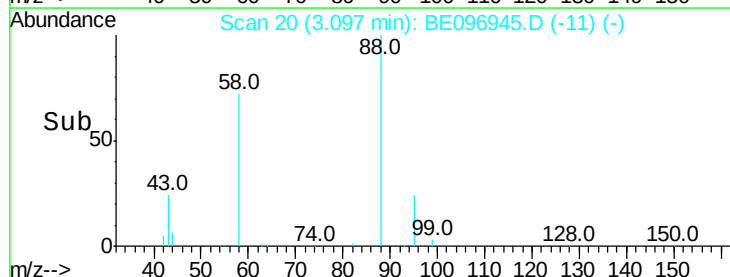
43 33.9 41.2 61.8#

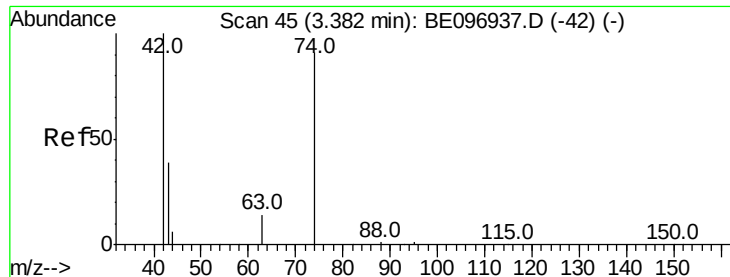


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.022 ng

RT: 3.36 min Scan# 43

Delta R.T. -0.02 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

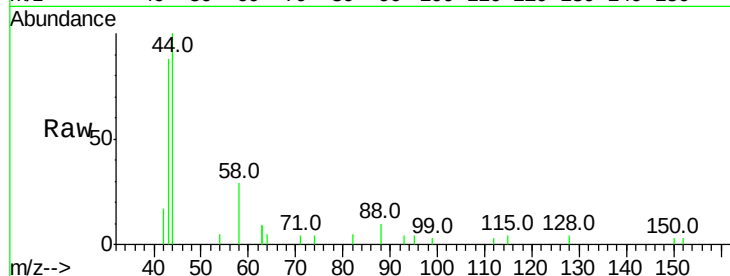
Tot Ion: 42 Resp: 73

Ion Ratio Lower Upper

42 100

74 24.7 96.0 144.0#

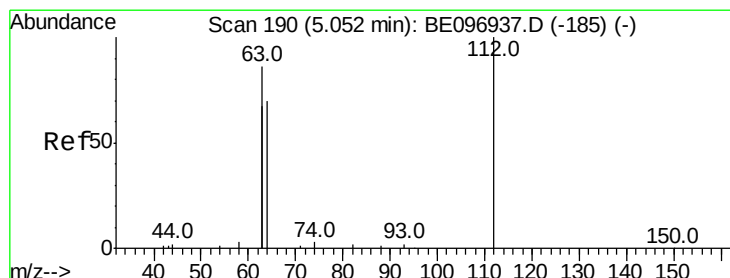
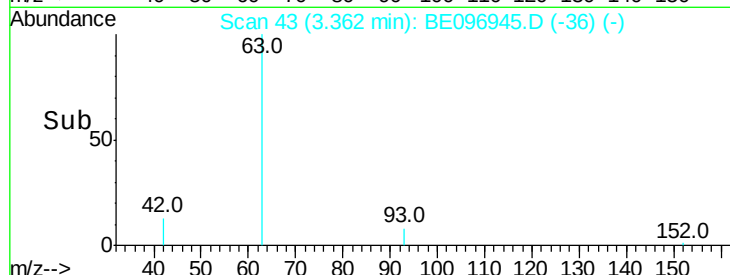
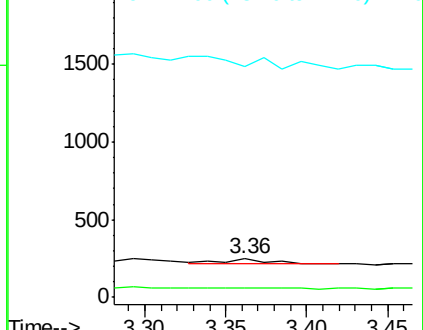
44 0.0 12.0 18.0#



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: 0.203 ng

RT: 5.05 min Scan# 190

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

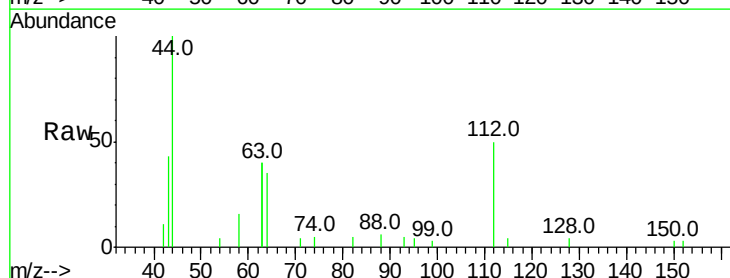
Tgt Ion: 112 Resp: 987

Ion Ratio Lower Upper

112 100

64 74.7 60.1 90.1

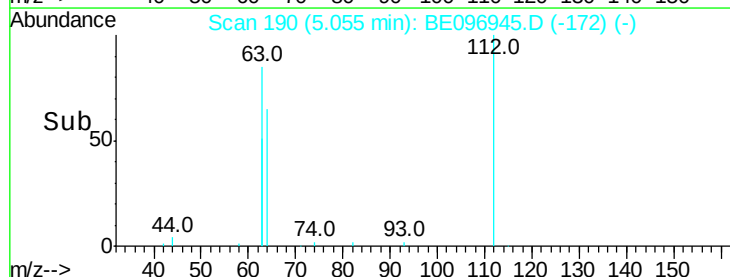
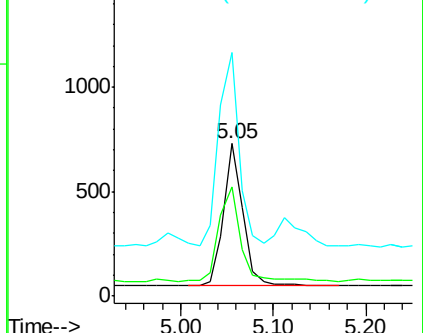
63 142.2 116.8 175.2

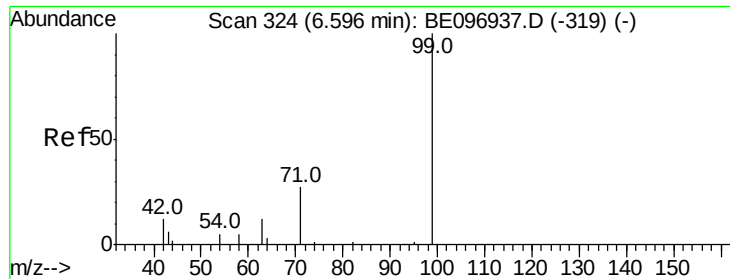


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.117 ng

RT: 6.59 min Scan# 323

Delta R.T. -0.01 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

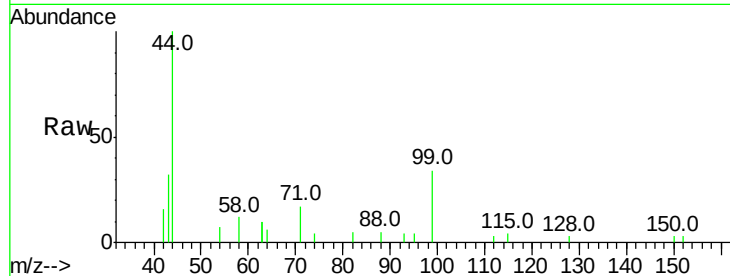
Tot Ion: 99 Resp: 872

Ion Ratio Lower Upper

99 100

42 41.2 20.2 30.2#

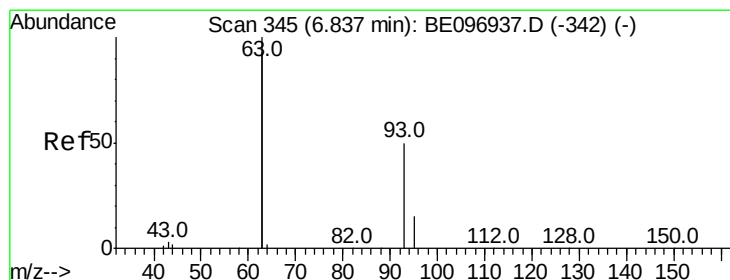
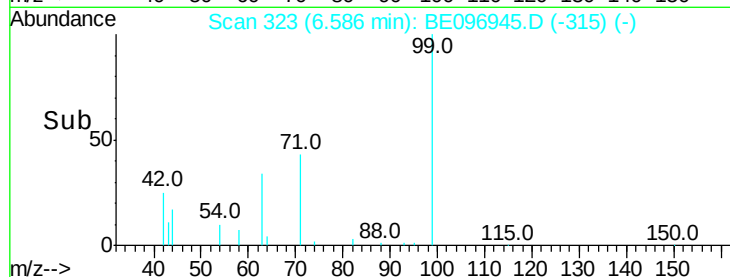
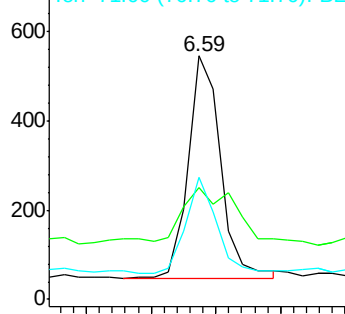
71 40.6 28.4 42.6



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

bis(2-Chloroethyl)ether

Concen: 0.038 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

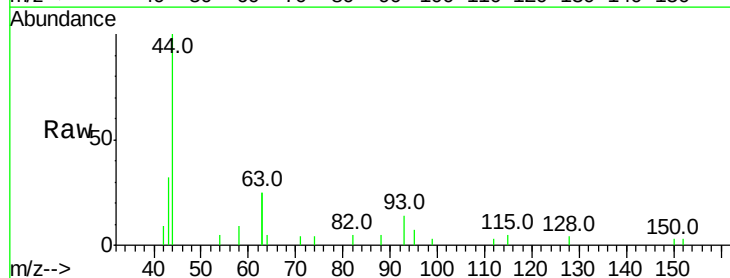
Tgt Ion: 93 Resp: 274

Ion Ratio Lower Upper

93 100

63 325.9 275.3 412.9

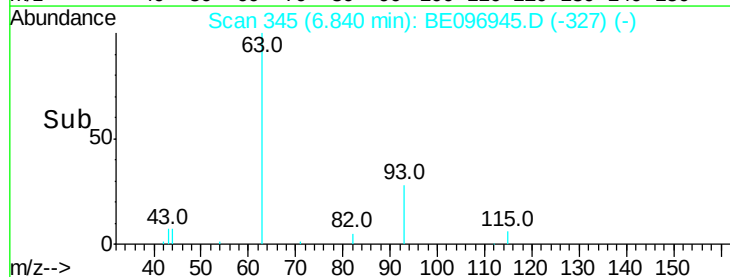
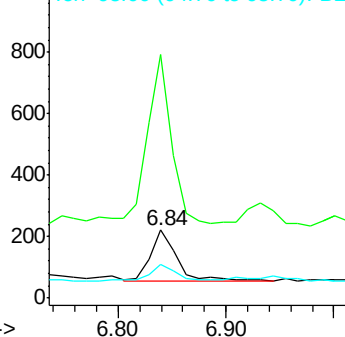
95 36.5 25.2 37.8

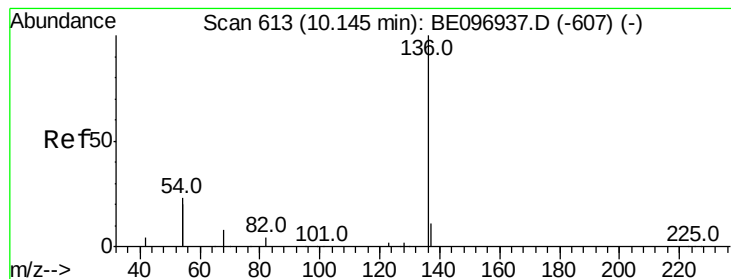


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

Tot Ion:136 Resp: 9687

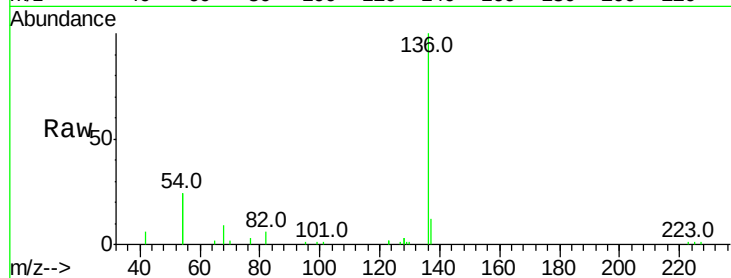
Ion Ratio Lower Upper

136 100

137 11.6 9.5 14.3

54 47.9 29.1 43.7#

68 9.3 6.2 9.2#

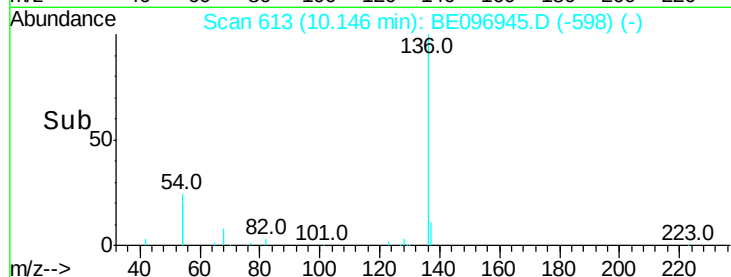


Abundance Ion 136.00 (135.70 to 136.70): E

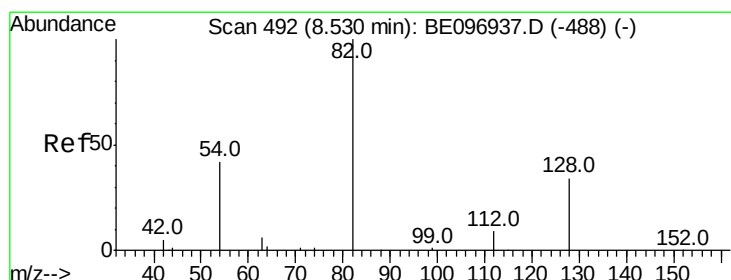
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time--> 10.00 10.20



#8

Nitrobenzene-d5

Concen: 0.490 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.01 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

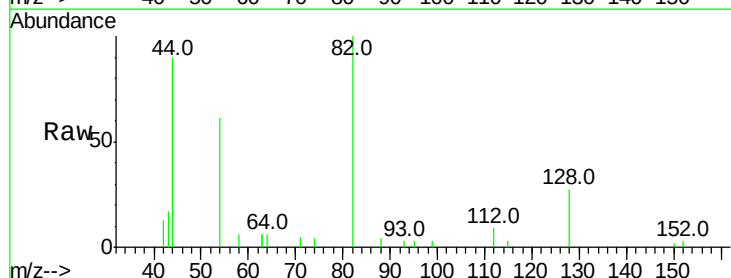
Tgt Ion: 82 Resp: 3462

Ion Ratio Lower Upper

82 100

128 26.5 24.0 36.0

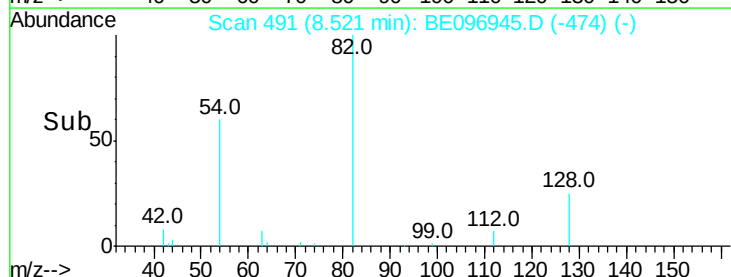
54 61.2 40.0 60.0#



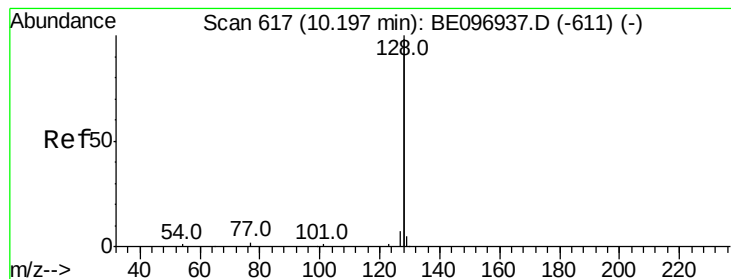
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time--> 8.40 8.50 8.60



#9

Naphthalene

Concen: 0.062 ng

RT: 10.20 min Scan# 617

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

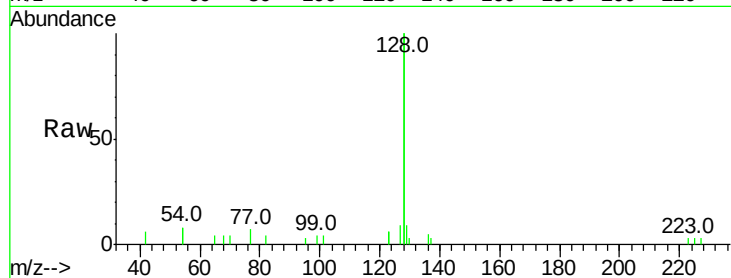
Tot Ion:128 Resp: 5400

Ion Ratio Lower Upper

128 100

129 4.3 2.6 3.8#

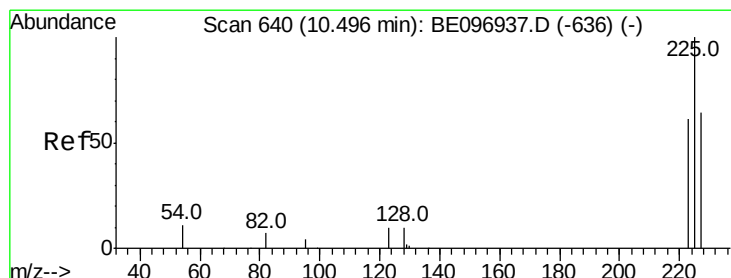
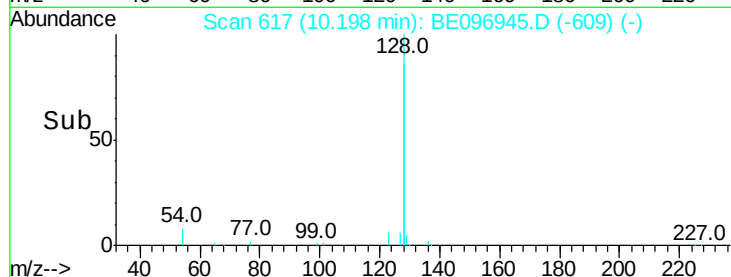
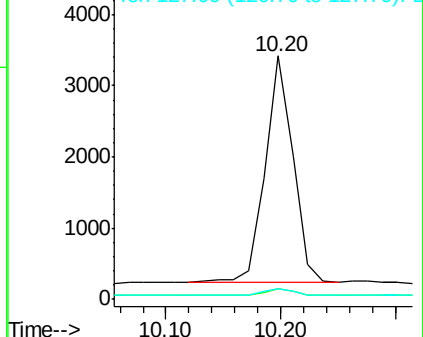
127 4.5 2.8 4.2#



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: 0.002 ng

RT: 10.44 min Scan# 636

Delta R.T. -0.05 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

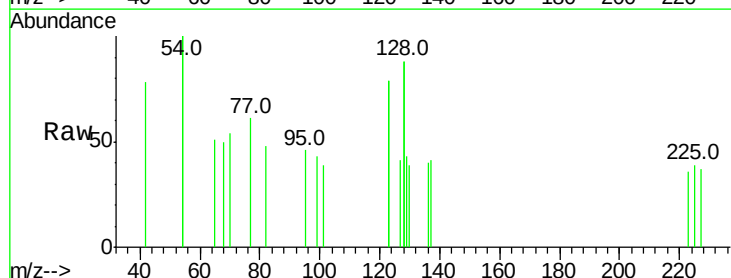
Tgt Ion:225 Resp: 6

Ion Ratio Lower Upper

225 100

223 0.0 53.0 79.6#

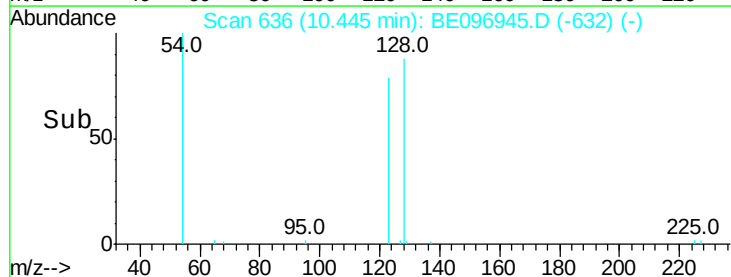
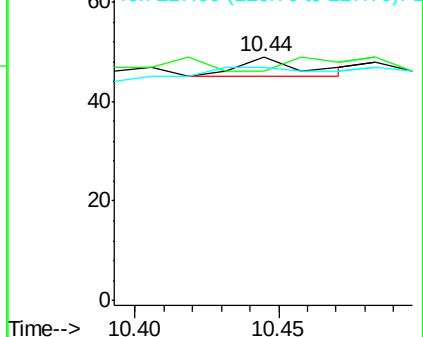
227 66.7 51.4 77.2

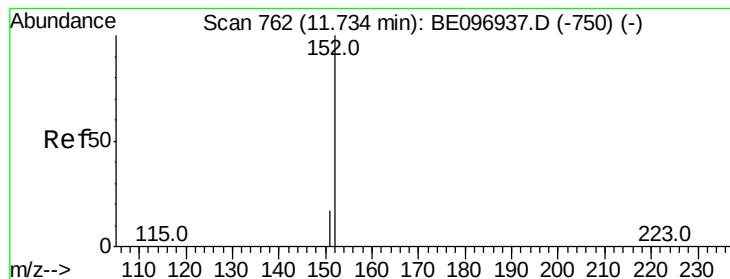


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.474 ng

RT: 11.73 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

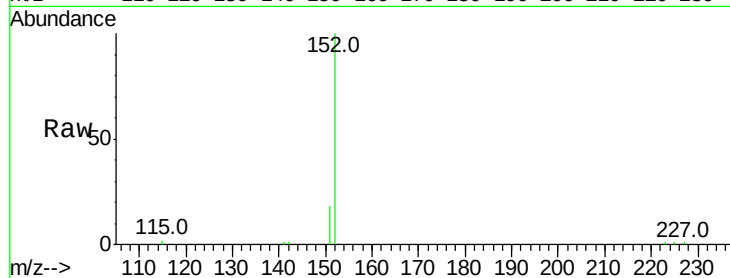
GW02-071118RE

Tot Ion:152 Resp: 6692

Ion Ratio Lower Upper

152 100

151 19.5 15.4 23.0

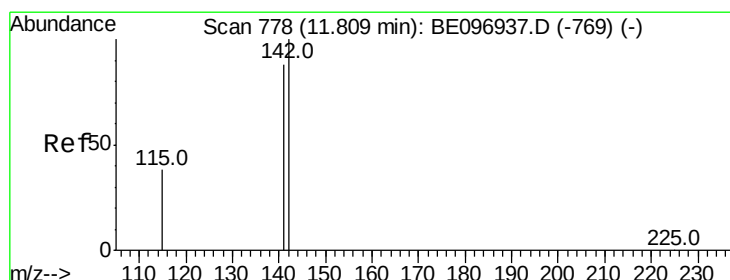
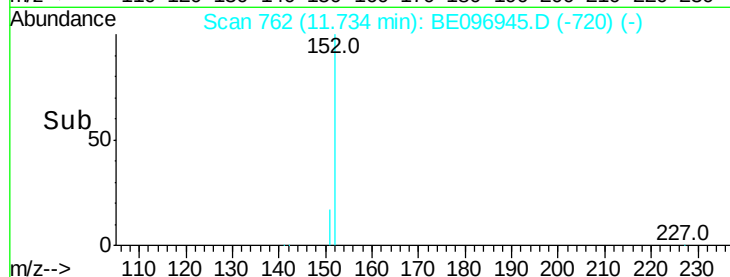


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.73

Time-->



#12

2-Methylnaphthalene

Concen: 0.030 ng

RT: 11.81 min Scan# 778

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

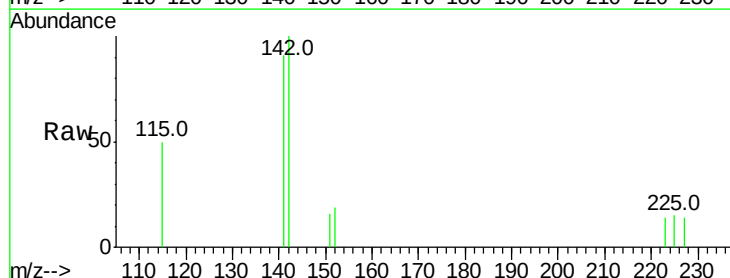
Tgt Ion:142 Resp: 439

Ion Ratio Lower Upper

142 100

141 91.4 70.4 105.6

115 50.5 31.7 47.5#



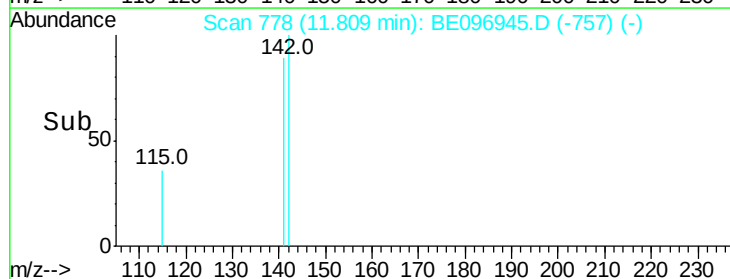
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

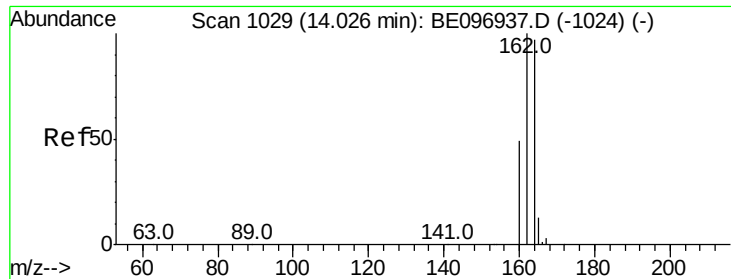
Ion 115.00 (114.70 to 115.70): E

11.81

Time-->



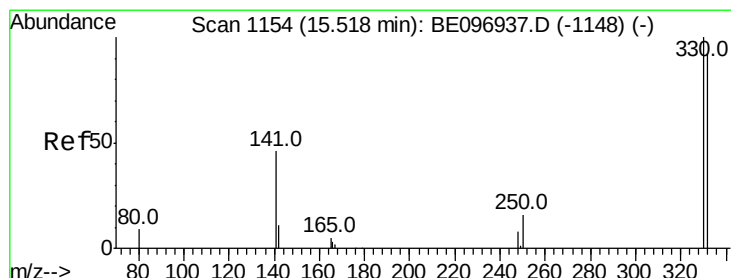
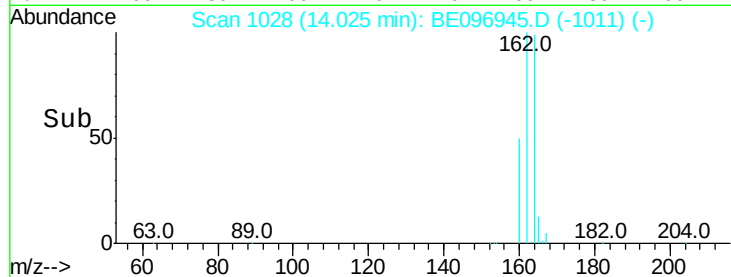
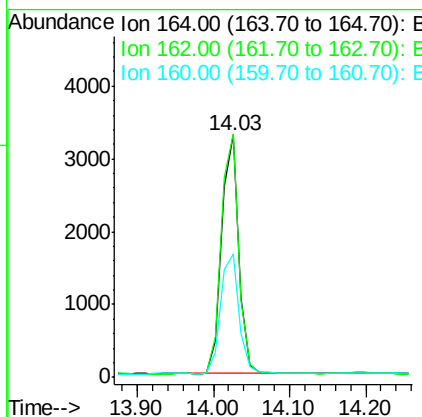
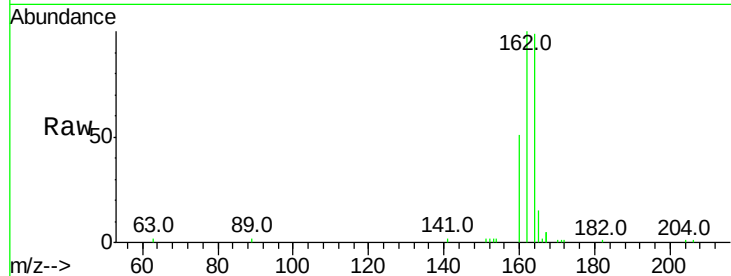




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.03 min Scan# 1028  
 Delta R.T. -0.00 min  
 Lab File: BE096945.D  
 Acq: 16 Jul 2018 19:33

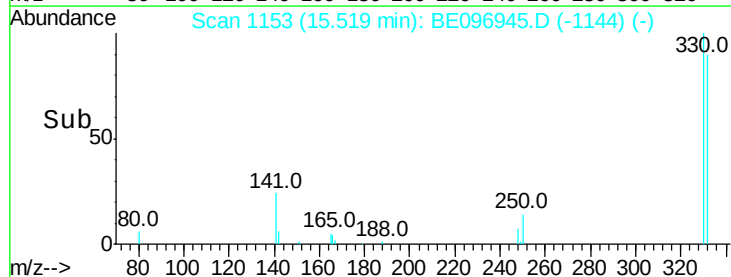
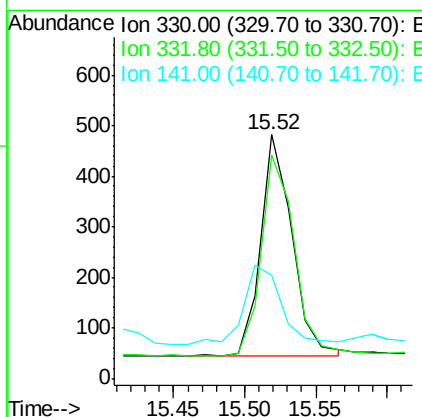
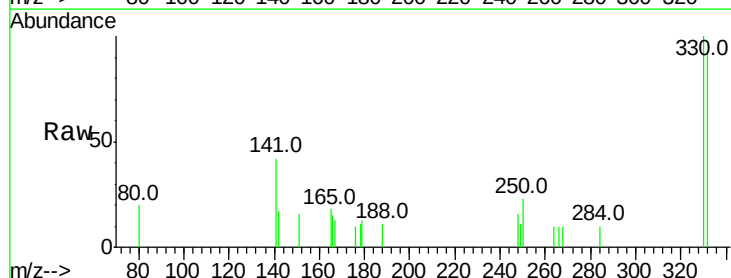
Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW02-071118RE

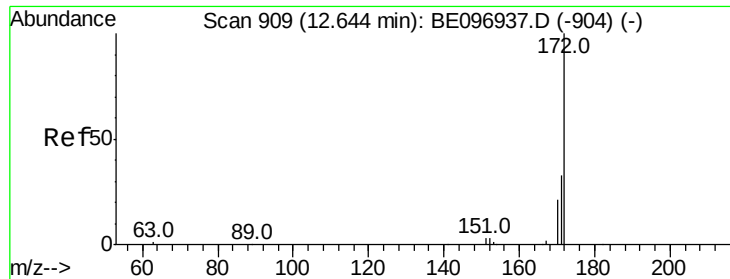
Tot Ion:164 Resp: 5189  
 Ion Ratio Lower Upper  
 164 100  
 162 100.5 83.1 124.7  
 160 50.8 37.1 55.7



#14  
 2,4,6-Tribromophenol  
 Concen: 0.558 ng  
 RT: 15.52 min Scan# 1153  
 Delta R.T. 0.00 min  
 Lab File: BE096945.D  
 Acq: 16 Jul 2018 19:33

Tgt Ion:330 Resp: 674  
 Ion Ratio Lower Upper  
 330 100  
 332 95.0 152.7 229.1#  
 141 41.8 33.7 50.5

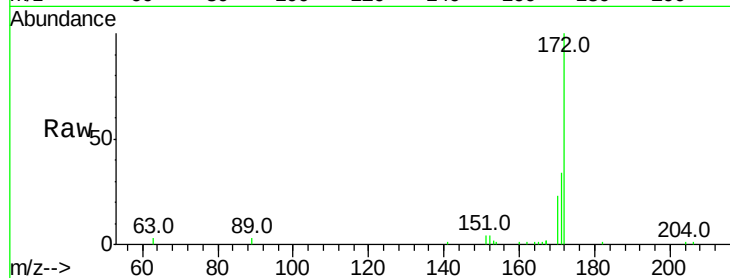




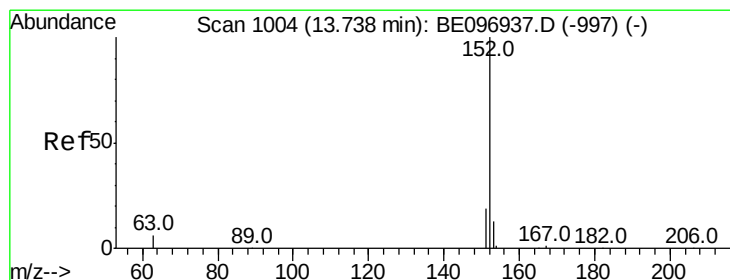
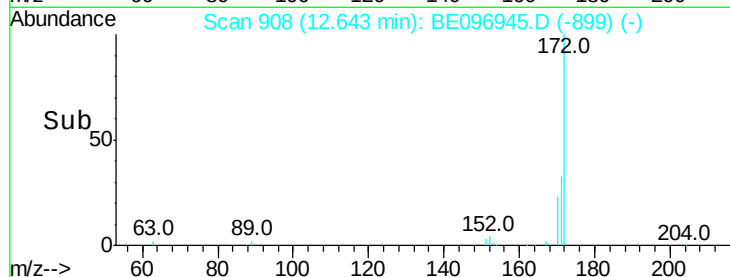
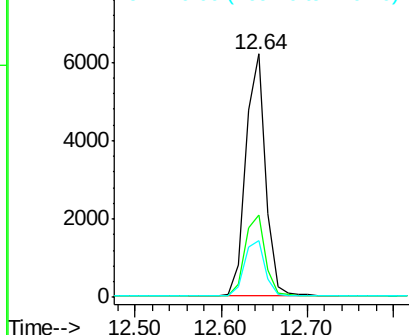
#15  
2-Fluorobiphenyl  
Concen: 0.506 ng  
RT: 12.64 min Scan# 908  
Delta R.T. -0.00 min  
Lab File: BE096945.D  
Acq: 16 Jul 2018 19:33

Instrument :  
BNA\_E  
ClientSampleId :  
GW02-071118RE

Tot Ion:172 Resp: 9771  
Ion Ratio Lower Upper  
172 100  
171 33.8 29.9 44.9  
170 23.3 21.8 32.8

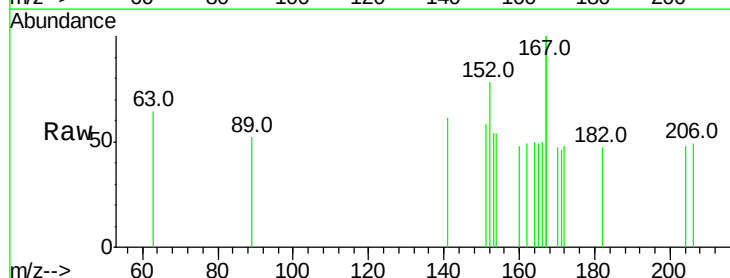


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

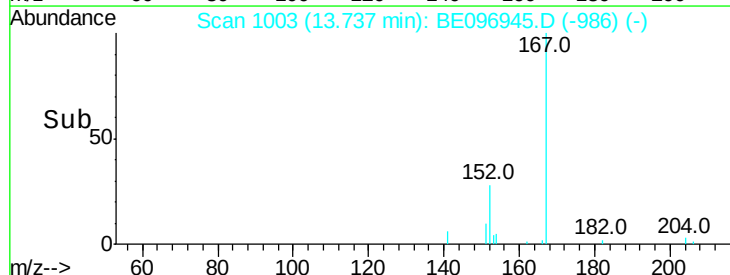
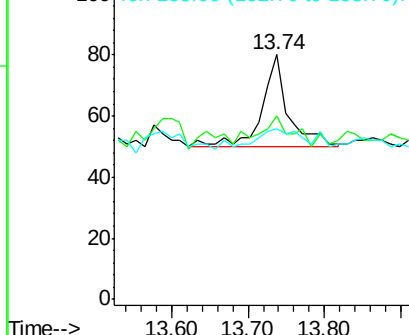


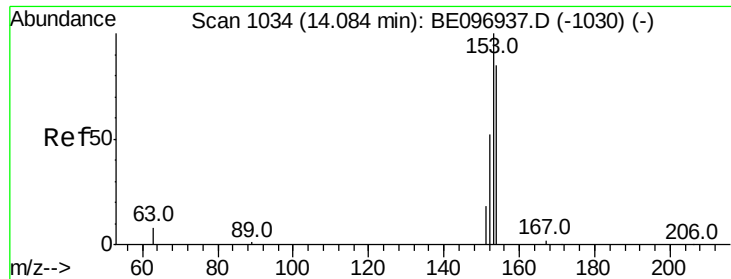
#16  
Acenaphthylene  
Concen: 0.003 ng  
RT: 13.74 min Scan# 1003  
Delta R.T. -0.00 min  
Lab File: BE096945.D  
Acq: 16 Jul 2018 19:33

Tgt Ion:152 Resp: 72  
Ion Ratio Lower Upper  
152 100  
151 40.3 15.7 23.5#  
153 31.9 10.5 15.7#



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.004 ng

RT: 14.08 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

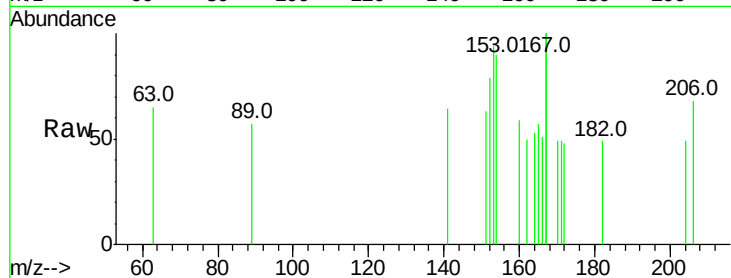
Tot Ion:154 Resp: 66

Ion Ratio Lower Upper

154 100

153 98.5 89.2 133.8

152 95.5 42.0 63.0#

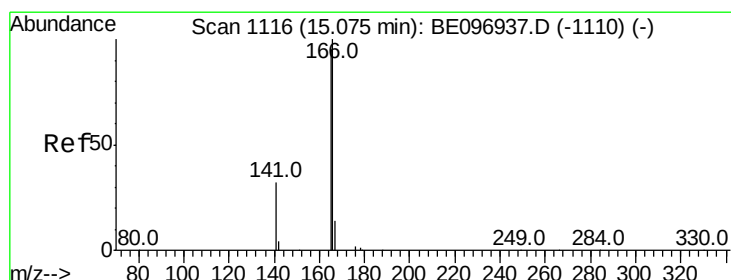
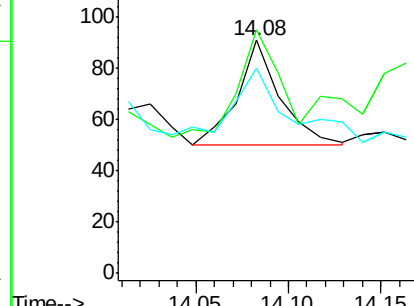
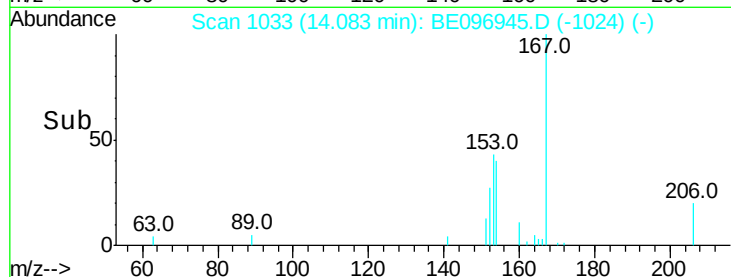


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

14.08



#18

Fluorene

Concen: 0.010 ng

RT: 15.08 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

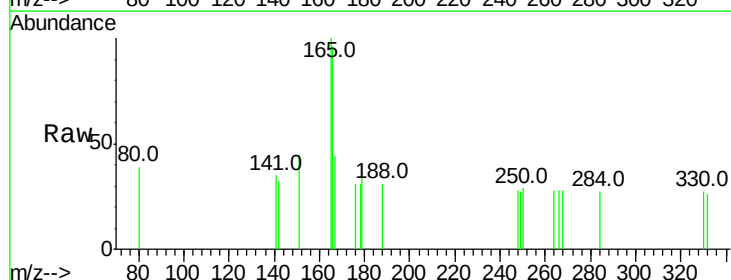
Tgt Ion:166 Resp: 164

Ion Ratio Lower Upper

166 100

165 94.5 77.8 116.6

167 22.0 42.4 63.6#

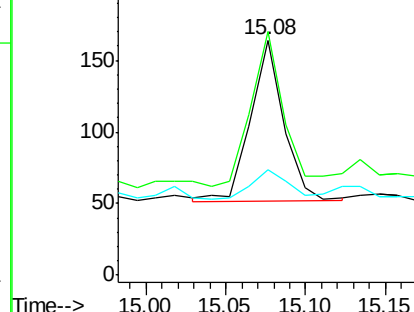
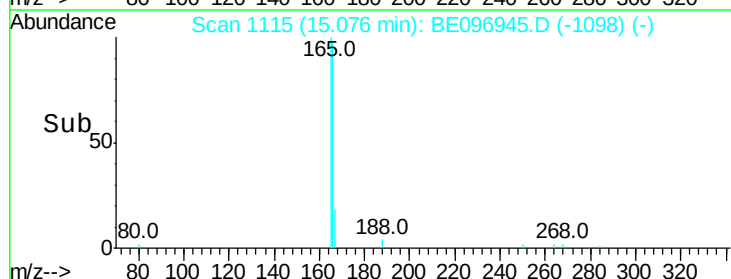


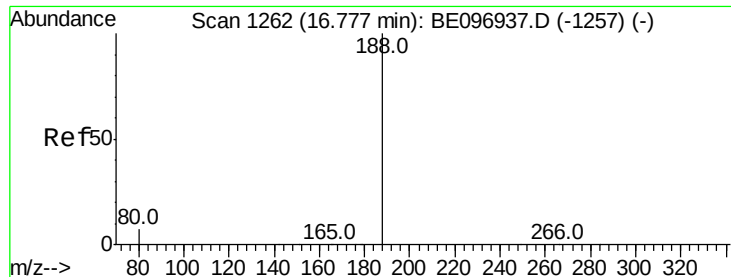
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

15.08





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.77 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

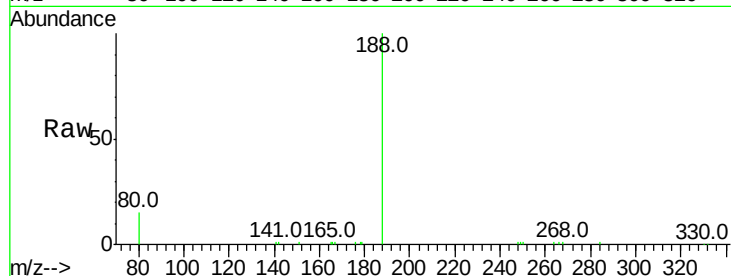
Tot Ion:188 Resp: 14867

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

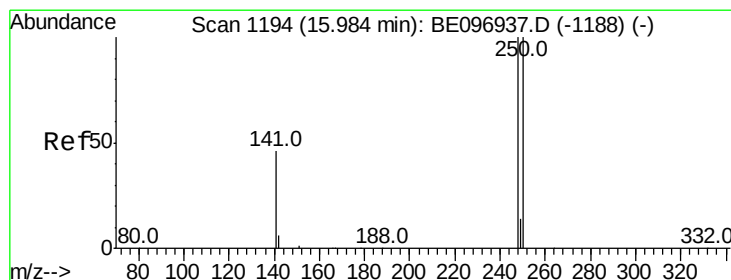
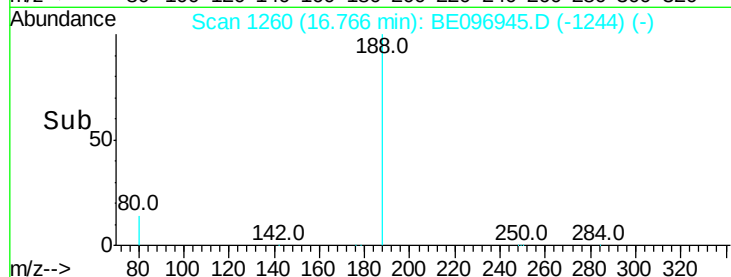
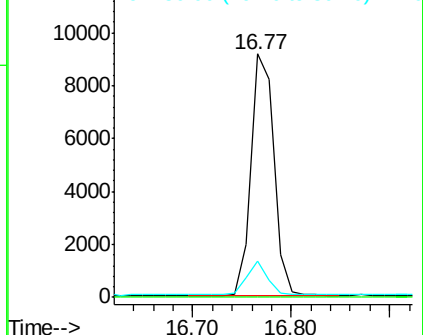
80 15.0 3.6 5.4#



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



#20

4-Bromophenyl-phenylether

Concen: 0.000 ng

RT: 16.00 min Scan# 1194

Delta R.T. 0.01 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

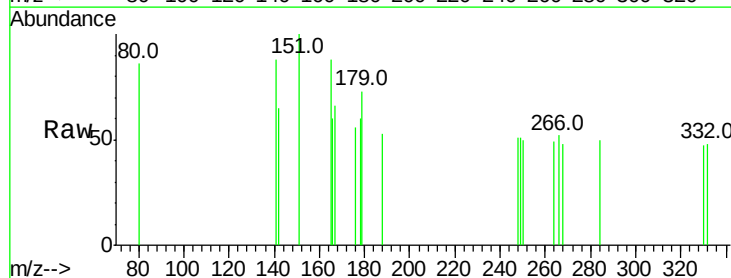
Tgt Ion:248 Resp: 3

Ion Ratio Lower Upper

248 100

250 98.0 62.7 94.1#

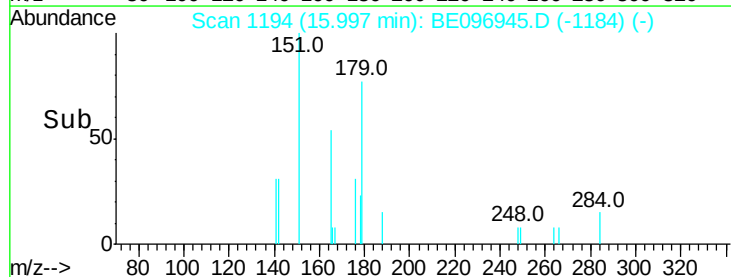
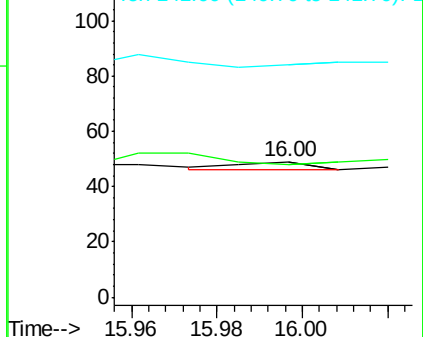
141 171.4 48.2 72.2#

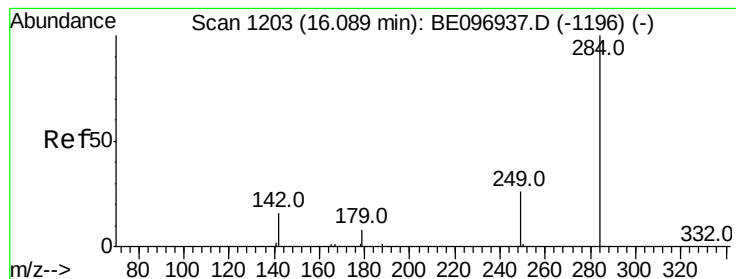


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.001 ng

RT: 16.08 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

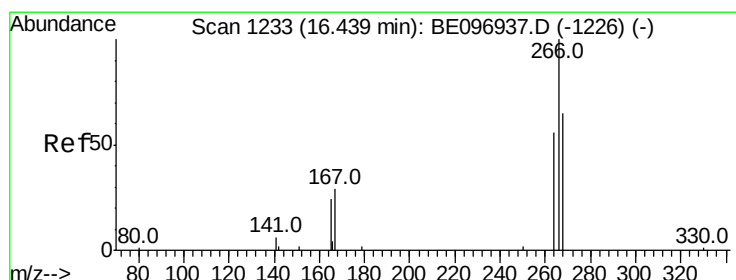
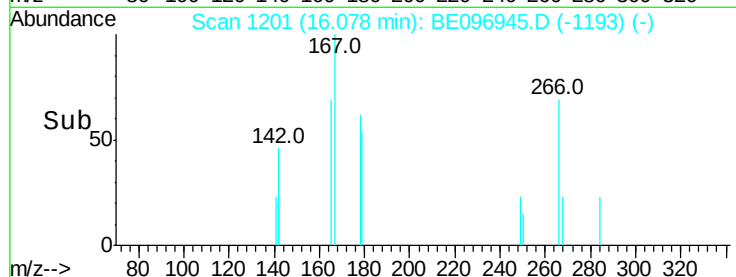
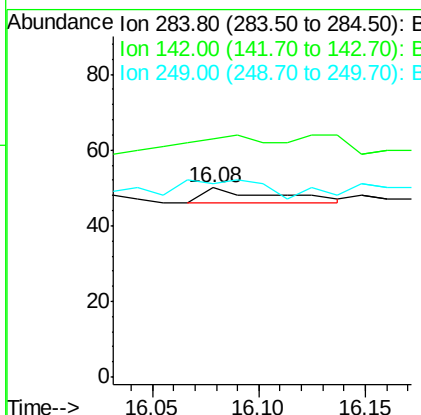
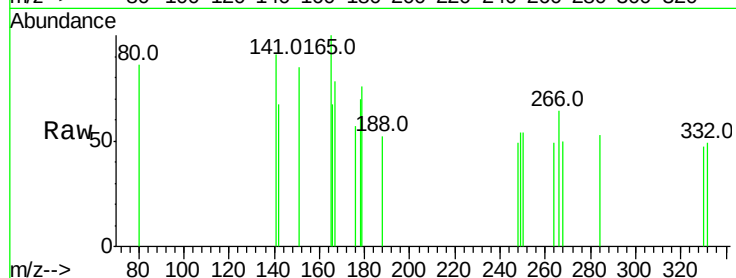
Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

|             |       |       |  |
|-------------|-------|-------|--|
| Tot Ion:284 | Resp: | 9     |  |
| Ion Ratio   | Lower | Upper |  |
| 284 100     |       |       |  |
| 142 0.0     | 22.1  | 33.1# |  |
| 249 211.1   | 34.8  | 52.2# |  |



#22

Pentachlorophenol

Concen: 0.008 ng

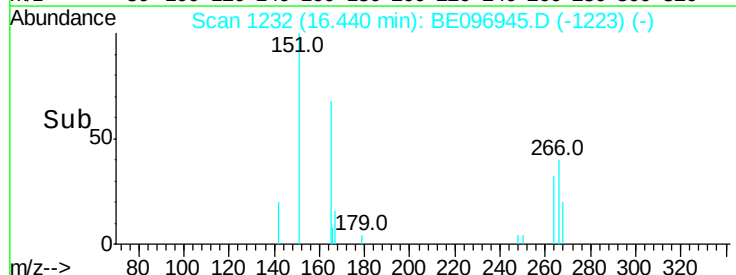
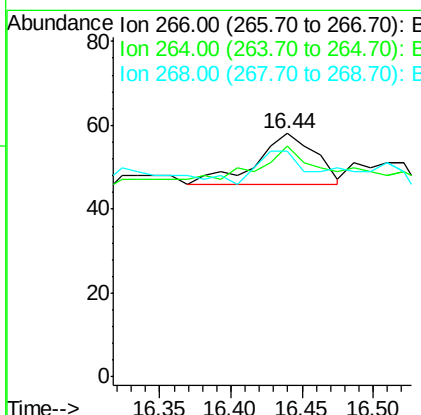
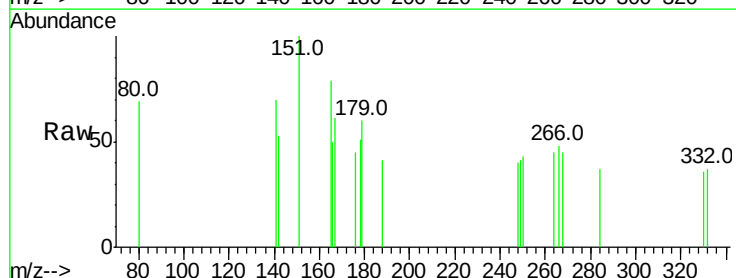
RT: 16.44 min Scan# 1232

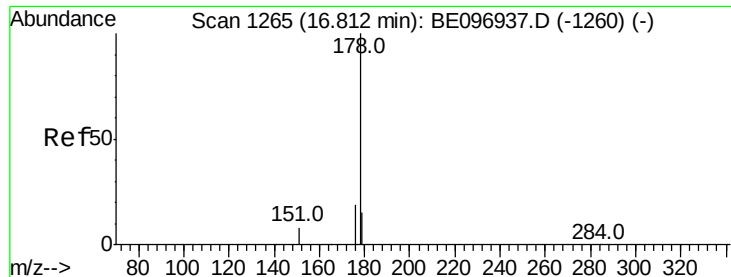
Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:266 | Resp: | 34    |
| Ion | Ratio   | Lower | Upper |
| 266 | 100     |       |       |
| 264 | 94.8    | 72.5  | 108.7 |
| 268 | 93.1    | 73.8  | 110.6 |





#23

Phenanthrene

Concen: 0.019 ng

RT: 16.81 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

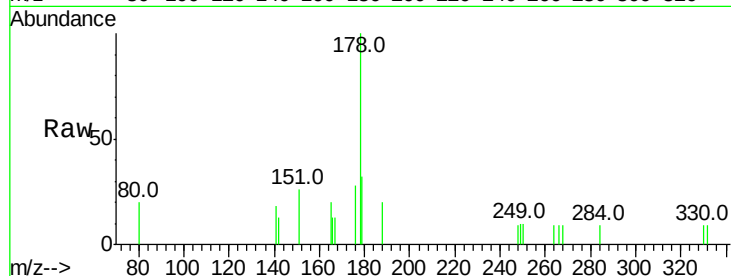
Tot Ion:178 Resp: 694

Ion Ratio Lower Upper

178 100

176 22.3 15.1 22.7

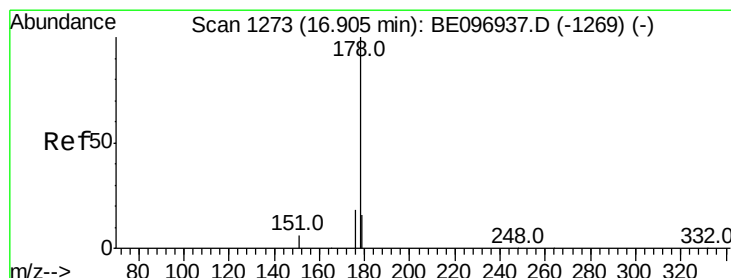
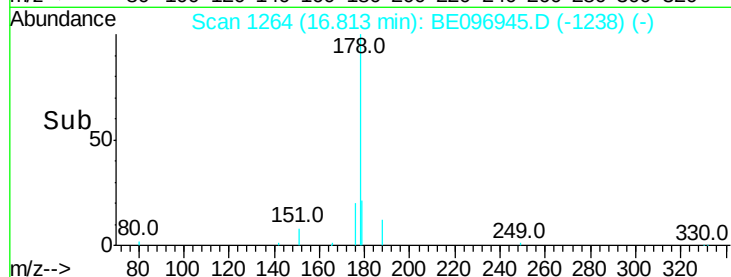
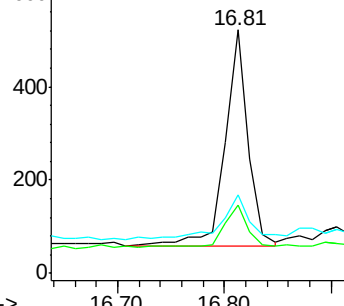
179 28.0 11.8 17.6#



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

Anthracene

Concen: 0.003 ng

RT: 16.91 min Scan# 1272

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

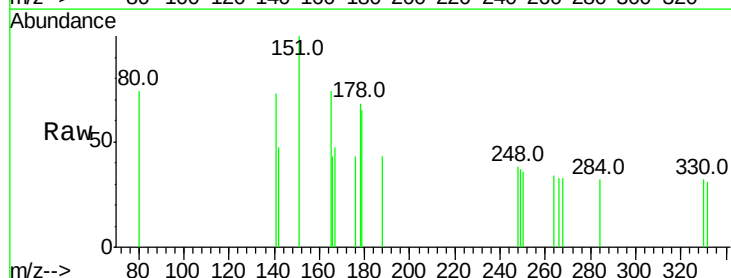
Tgt Ion:178 Resp: 78

Ion Ratio Lower Upper

178 100

176 12.8 12.8 19.2

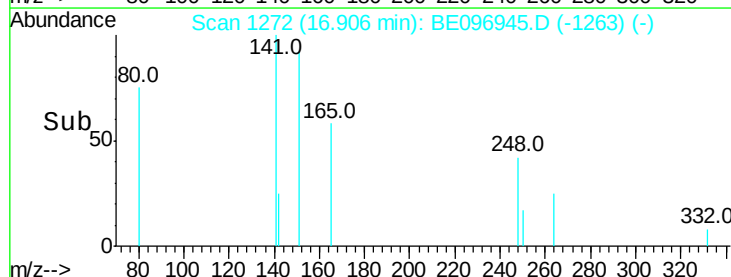
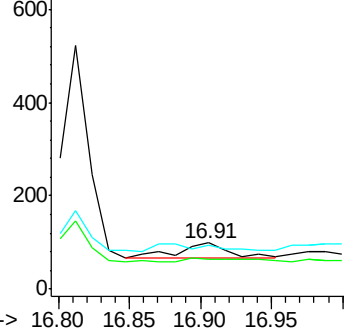
179 0.0 13.0 19.6#

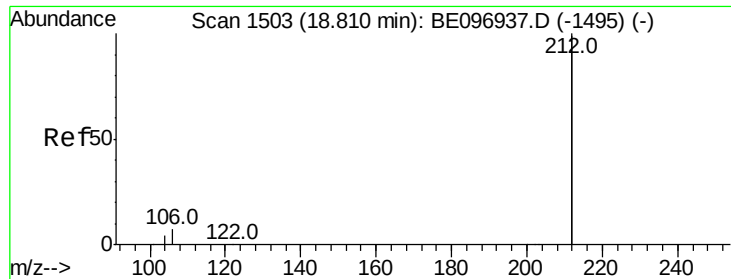


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.604 ng

RT: 18.81 min Scan# 1502

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

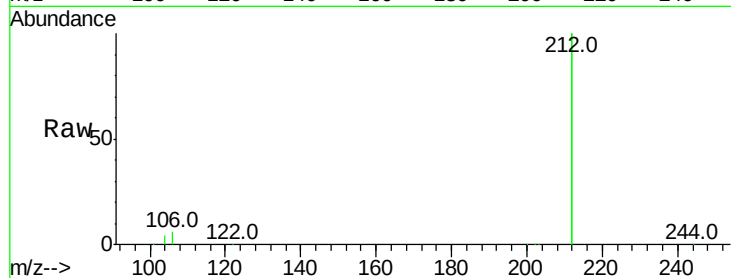
Tot Ion:212 Resp: 78147

Ion Ratio Lower Upper

212 100

106 3.5 2.8 4.2

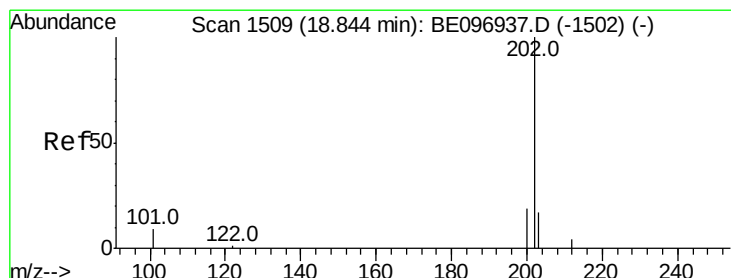
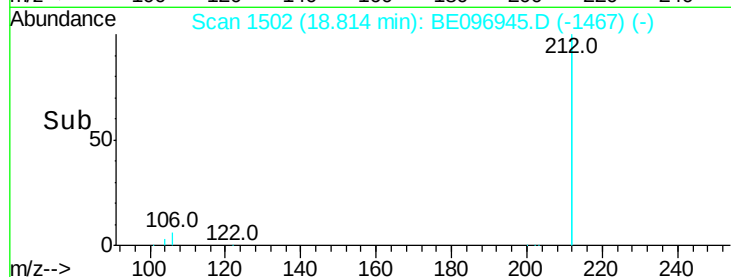
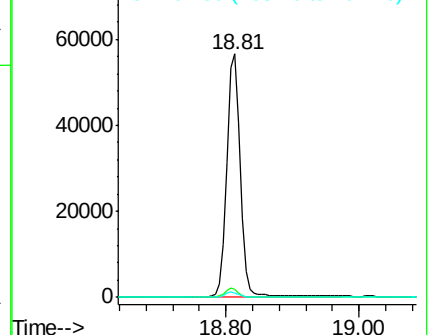
104 1.9 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.005 ng

RT: 18.84 min Scan# 1507

Delta R.T. -0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

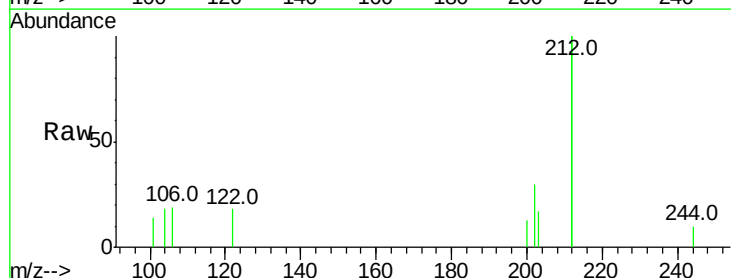
Tgt Ion:202 Resp: 175

Ion Ratio Lower Upper

202 100

101 0.0 9.8 14.8#

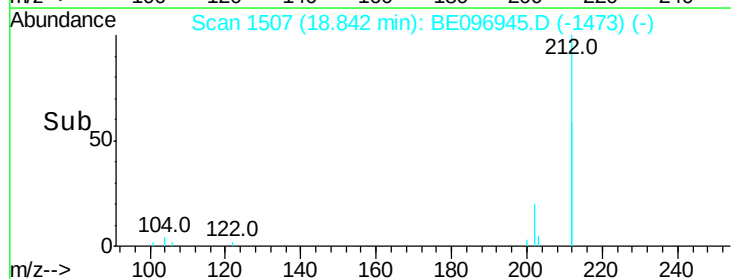
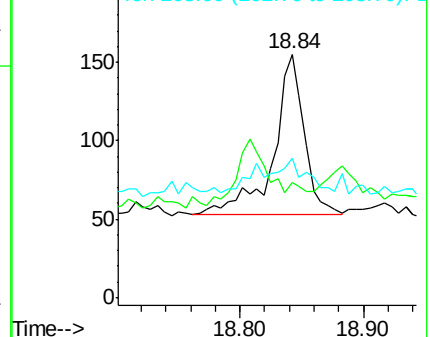
203 16.0 13.7 20.5

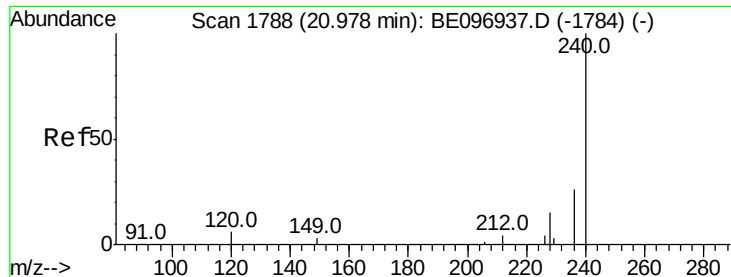


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

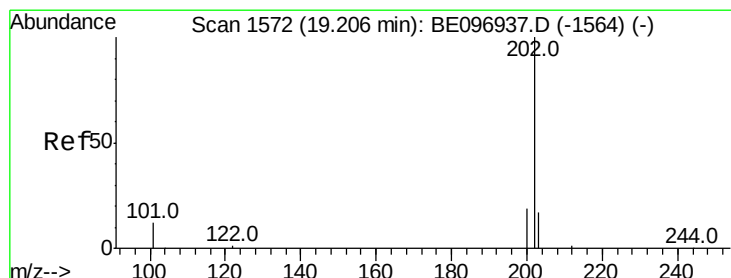
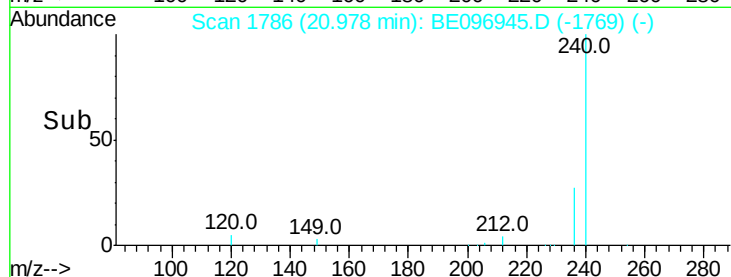
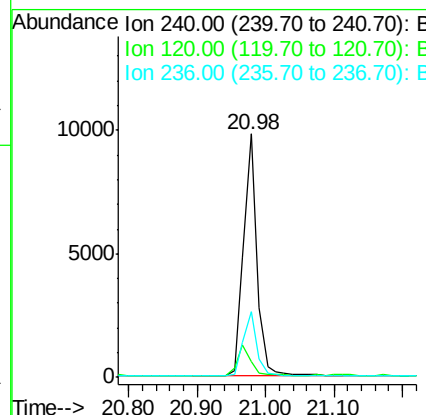
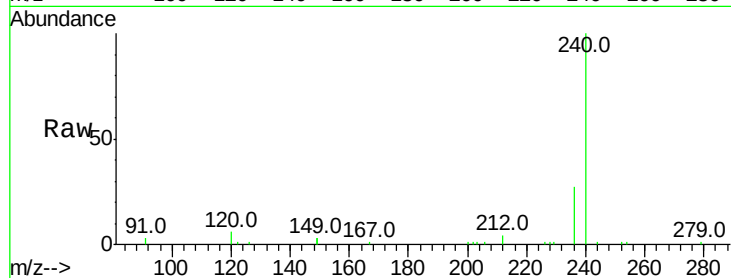




#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 20.98 min Scan# 1786  
 Delta R.T. 0.00 min  
 Lab File: BE096945.D  
 Acq: 16 Jul 2018 19:33

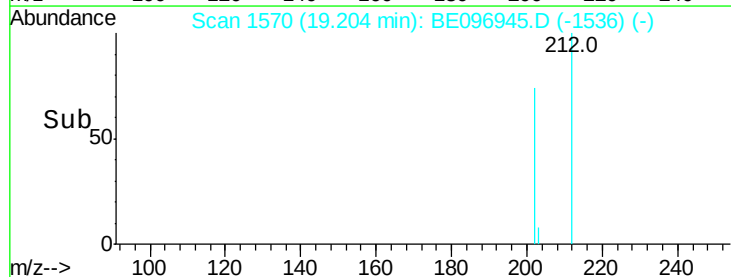
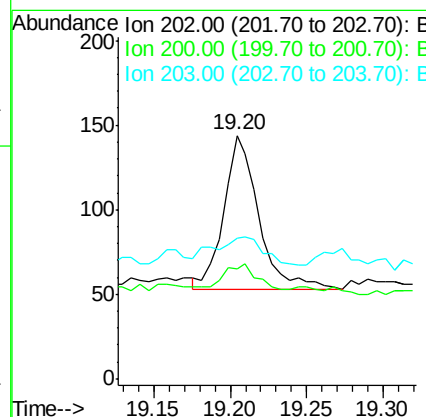
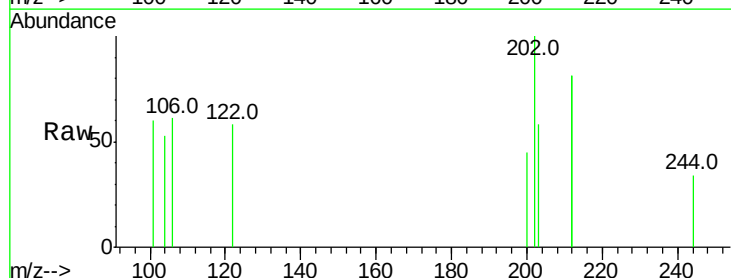
Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW02-071118RE

Tot Ion:240 Resp: 13512  
 Ion Ratio Lower Upper  
 240 100  
 120 6.4 5.5 8.3  
 236 27.0 20.7 31.1

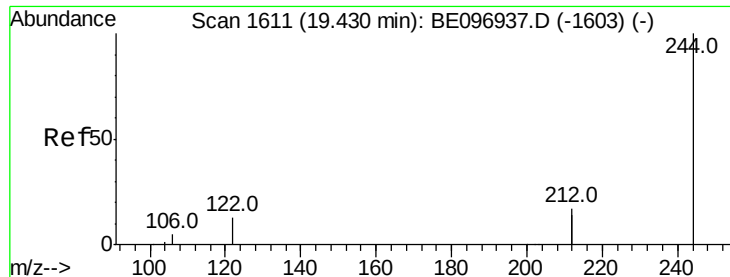


#28  
 Pyrene  
 Concen: 0.004 ng  
 RT: 19.20 min Scan# 1570  
 Delta R.T. -0.00 min  
 Lab File: BE096945.D  
 Acq: 16 Jul 2018 19:33

Tgt Ion:202 Resp: 144  
 Ion Ratio Lower Upper  
 202 100  
 200 14.6 16.6 25.0#  
 203 25.7 13.8 20.8#







#29

Terphenyl-d14

Concen: 0.619 ng

RT: 19.43 min Scan# 1610

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

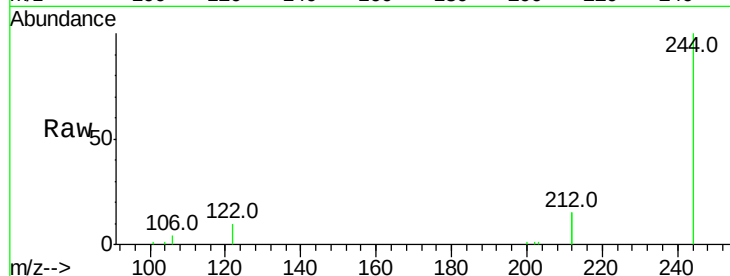
Tot Ion:244 Resp: 16130

Ion Ratio Lower Upper

244 100

212 29.8 25.4 38.0

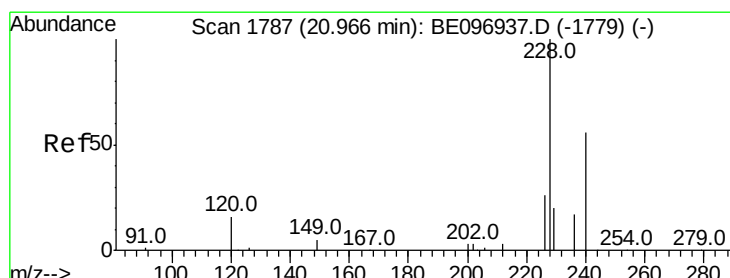
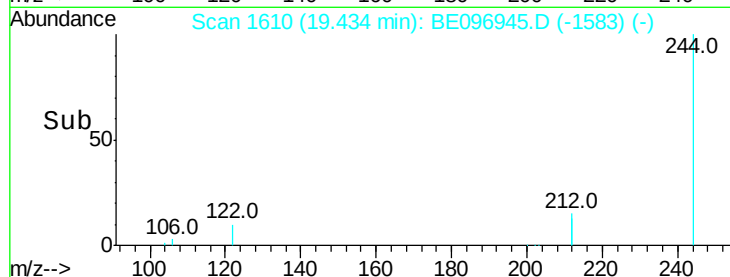
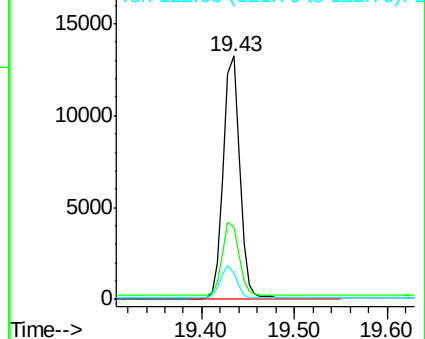
122 10.5 8.1 12.1



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



#30

Benzo(a)anthracene

Concen: 0.004 ng

RT: 20.97 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

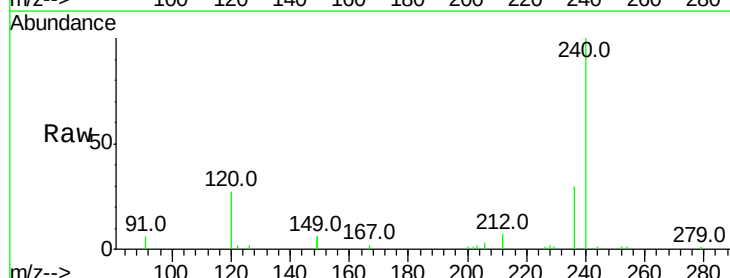
Tgt Ion:228 Resp: 129

Ion Ratio Lower Upper

228 100

226 61.9 24.0 36.0#

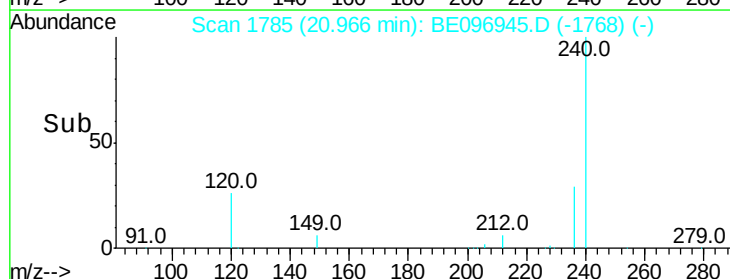
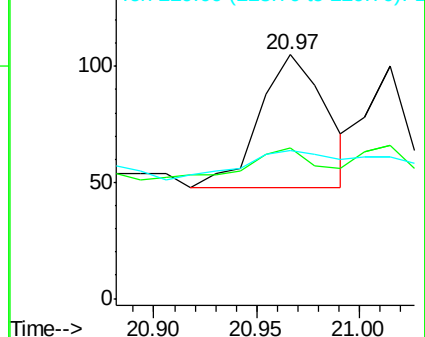
229 61.0 16.0 24.0#

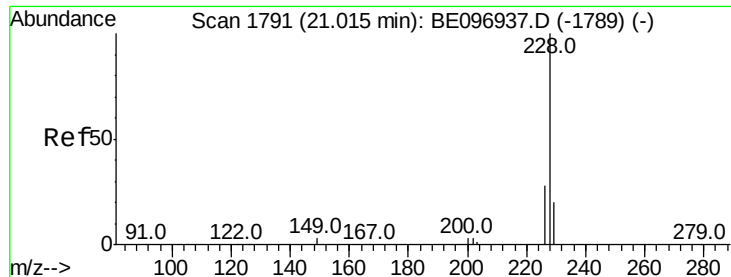


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.003 ng

RT: 20.97 min Scan# 1785

Delta R.T. -0.05 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

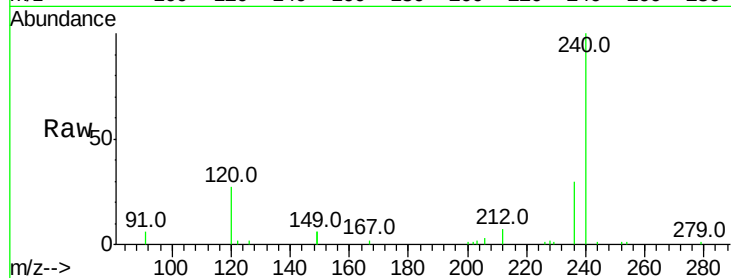
BNA\_E

ClientSampleId :

GW02-071118RE

Tot Ion:228 Resp: 96

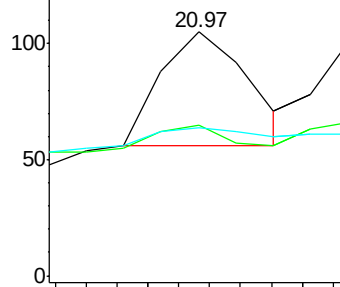
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 61.9  | 24.0  | 36.0# |
| 229 | 61.0  | 16.0  | 24.0# |



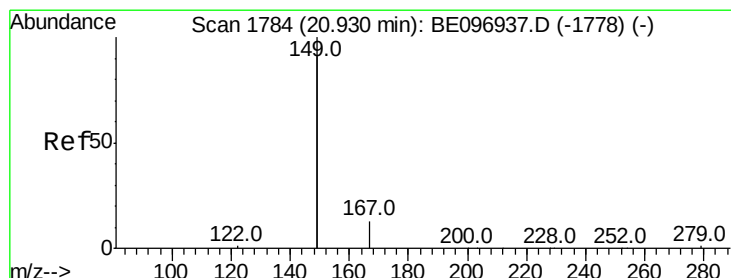
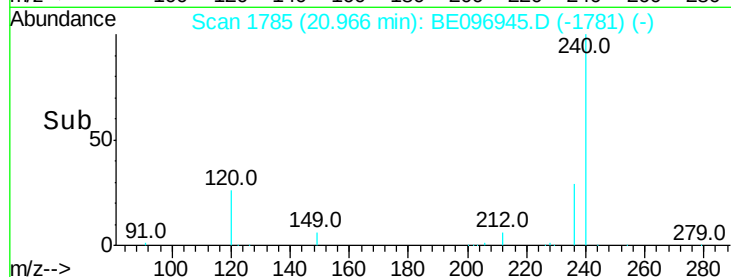
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.261 ng

RT: 20.93 min Scan# 1782

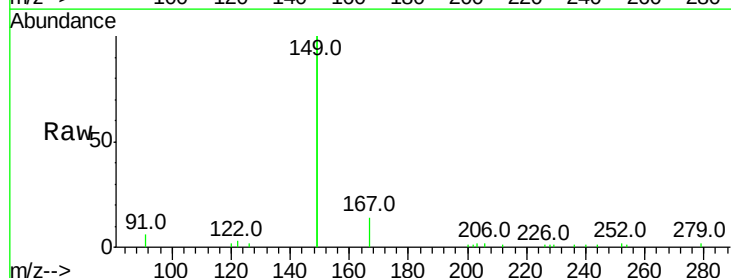
Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Tgt Ion:149 Resp: 8392

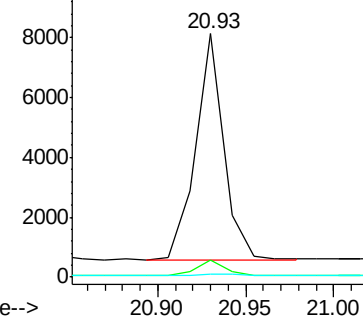
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.5   | 5.4   | 8.0   |
| 279 | 1.1   | 0.7   | 1.1#  |



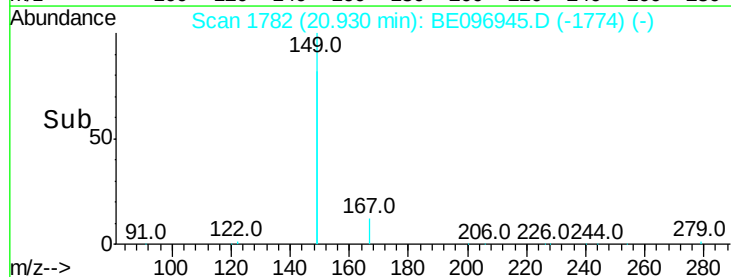
Abundance Ion 149.00 (148.70 to 149.70): E

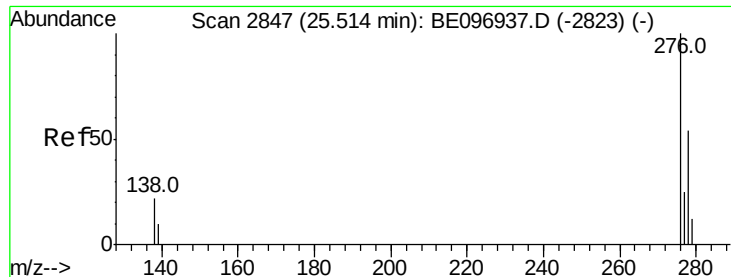
Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->

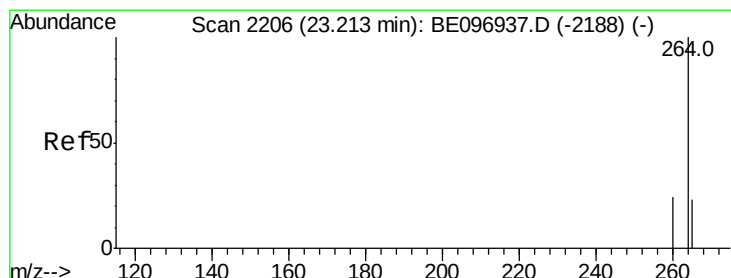
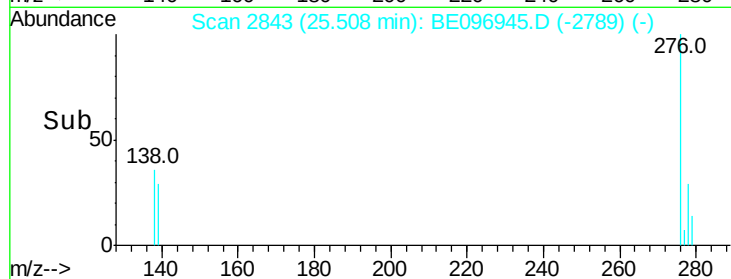
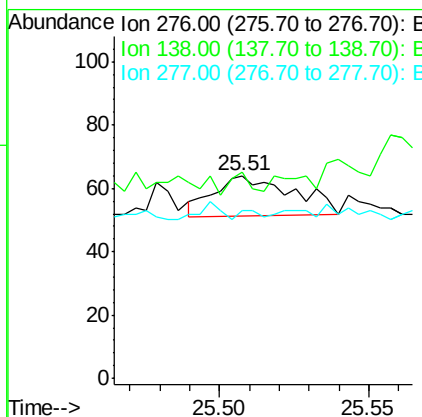
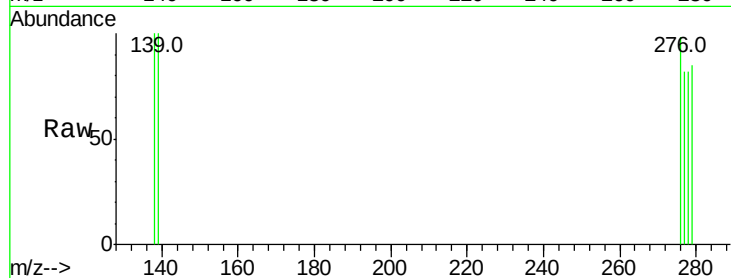




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.001 ng  
 RT: 25.51 min Scan# 2843  
 Delta R.T. -0.01 min  
 Lab File: BE096945.D  
 Acq: 16 Jul 2018 19:33

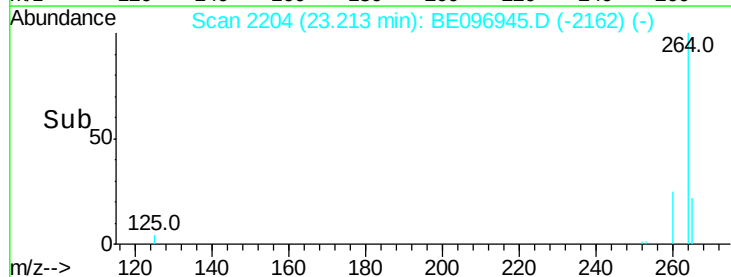
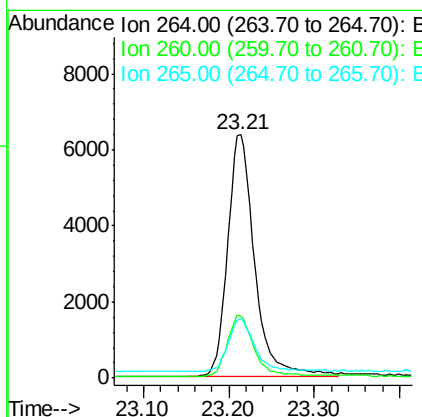
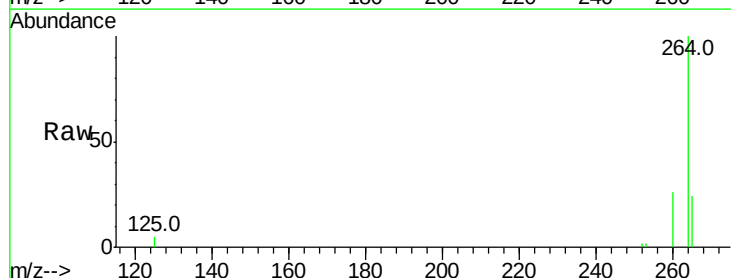
Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW02-071118RE

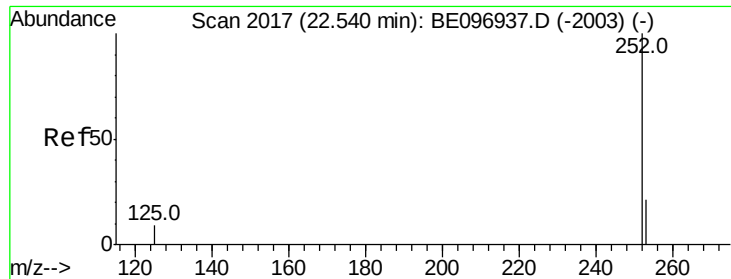
Tot Ion:276 Resp: 23  
 Ion Ratio Lower Upper  
 276 100  
 138 13.0 22.5 33.7#  
 277 13.0 19.9 29.9#



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.21 min Scan# 2204  
 Delta R.T. -0.00 min  
 Lab File: BE096945.D  
 Acq: 16 Jul 2018 19:33

Tgt Ion:264 Resp: 13910  
 Ion Ratio Lower Upper  
 264 100  
 260 25.6 20.5 30.7  
 265 24.2 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.003 ng

RT: 22.54 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

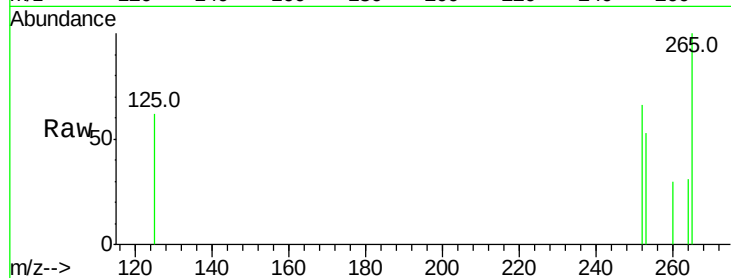
Tot Ion:252 Resp: 96

Ion Ratio Lower Upper

252 100

253 80.4 20.0 30.0#

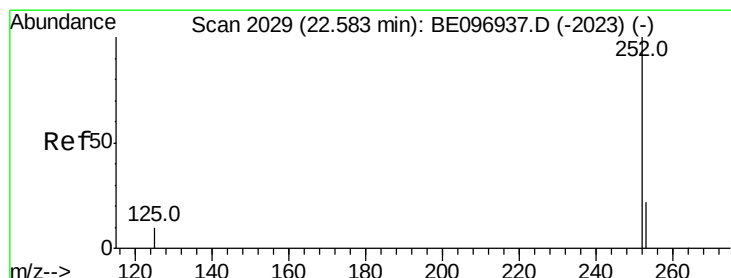
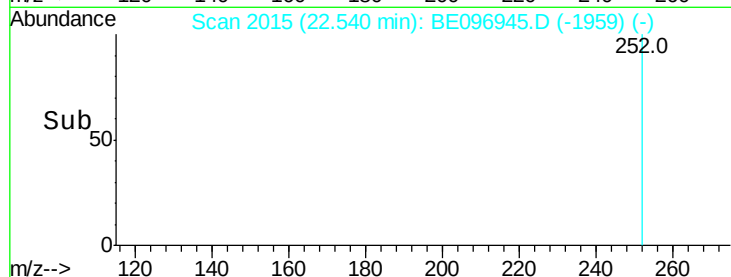
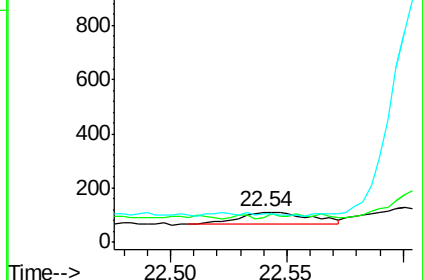
125 93.8 16.0 24.0#



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

Benzo(k)fluoranthene

Concen: 0.003 ng

RT: 22.61 min Scan# 2034

Delta R.T. 0.02 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

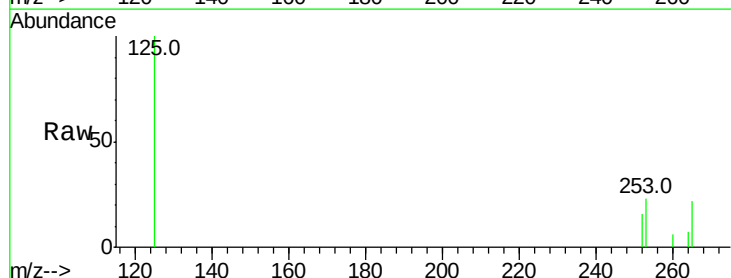
Tgt Ion:252 Resp: 129

Ion Ratio Lower Upper

252 100

253 143.7 16.0 24.0#

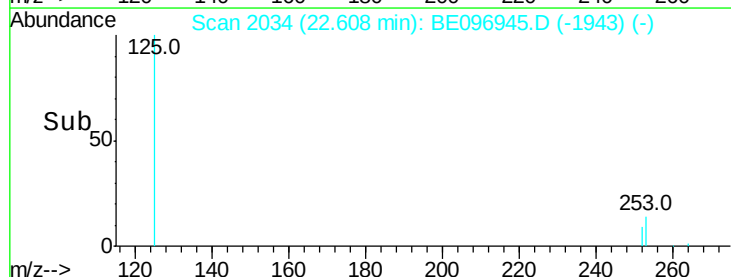
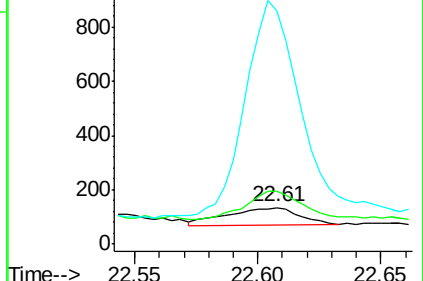
125 636.3 8.0 12.0#

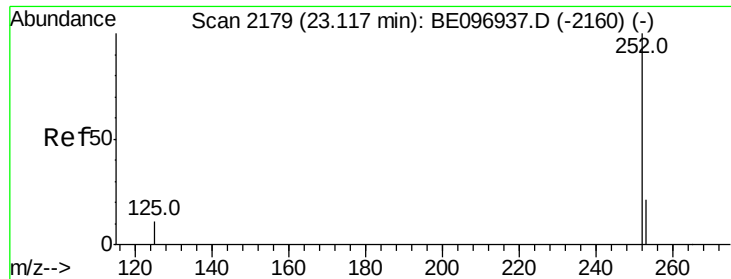


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.102 ng

RT: 23.10 min Scan# 2173

Delta R.T. -0.01 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE

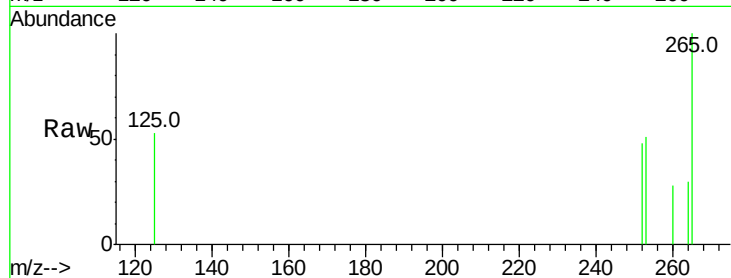
Tot Ion:252 Resp: 11

Ion Ratio Lower Upper

252 100

253 107.0 16.0 24.0#

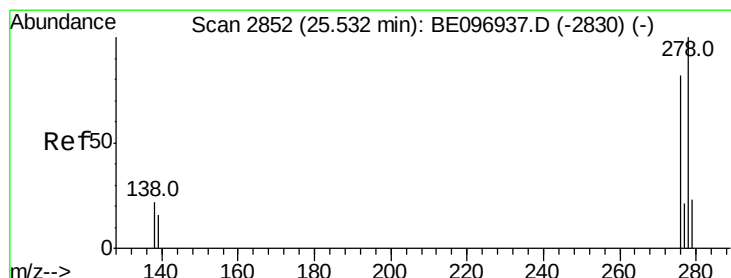
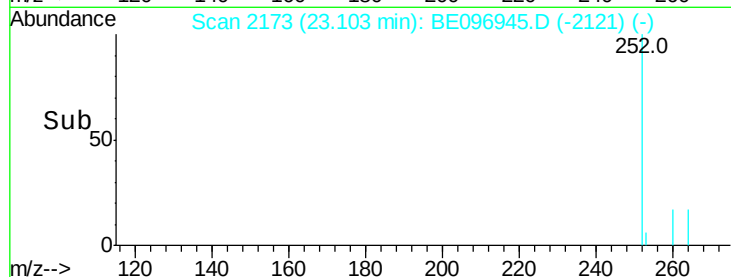
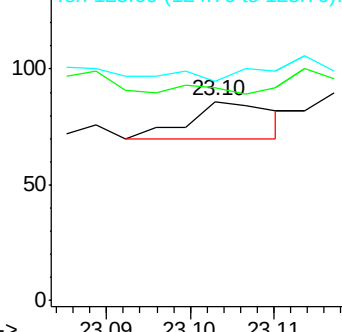
125 110.5 12.0 18.0#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.118 ng

RT: 25.53 min Scan# 2849

Delta R.T. -0.00 min

Lab File: BE096945.D

Acq: 16 Jul 2018 19:33

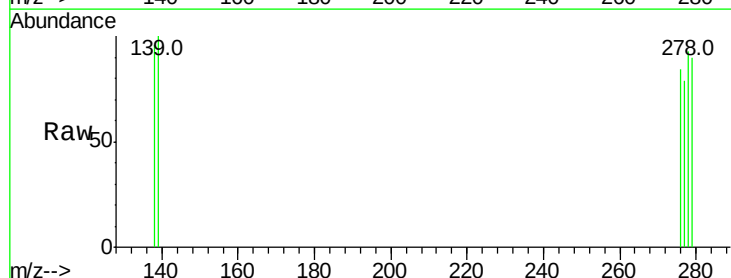
Tgt Ion:278 Resp: 24

Ion Ratio Lower Upper

278 100

139 108.1 16.0 24.0#

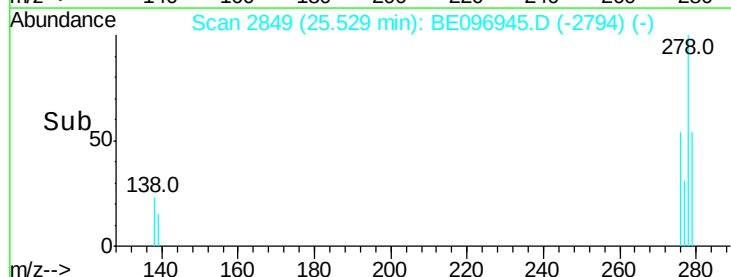
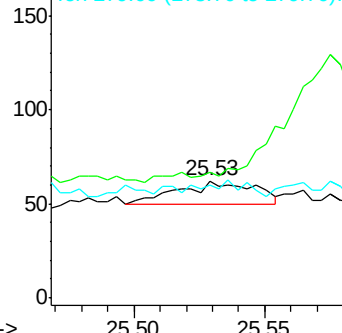
279 96.8 20.0 30.0#

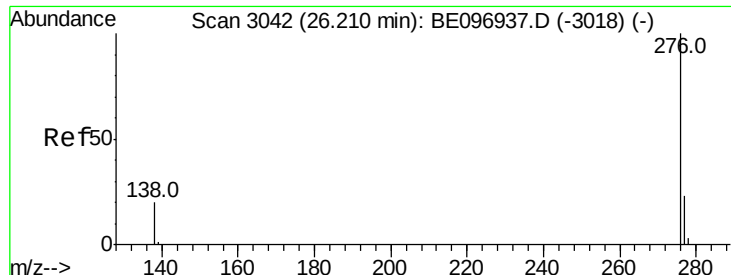


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.001 ng

RT: 26.20 min Scan# 3038

Delta R.T. -0.01 min

Lab File: BE096945.D

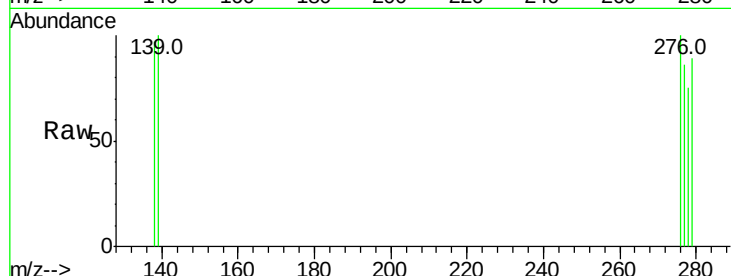
Acq: 16 Jul 2018 19:33

Instrument :

BNA\_E

ClientSampleId :

GW02-071118RE



Tot Ion: 276 Resp: 17

Ion Ratio Lower Upper

276 100

277 85.9 16.0 24.0#

138 96.9 20.0 30.0#

