

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE061419\  
 Data File : BE100031.D  
 Acq On : 14 Jun 2019 19:56  
 Operator : JU/SJ  
 Sample : K3270-05MSD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-02MSD

Quant Time: Jun 15 00:50:30 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 10 14:57:20 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 977      | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.59 | 136  | 3637     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.46 | 164  | 2607     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.20 | 188  | 8011     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.39 | 240  | 10144    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.92 | 264  | 11383    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.36  | 112 | 457   | 0.17 | ng | 0.00  |
| 5) Phenol-d6                | 6.96  | 99  | 387   | 0.11 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.95  | 82  | 1310  | 0.38 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.20 | 152 | 3391  | 0.53 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.96 | 330 | 653   | 0.34 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 13.09 | 172 | 4100  | 0.41 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.24 | 212 | 35180 | 0.30 | ng | -0.01 |
| 29) Terphenyl-d14           | 19.84 | 244 | 10540 | 0.58 | ng | -0.01 |

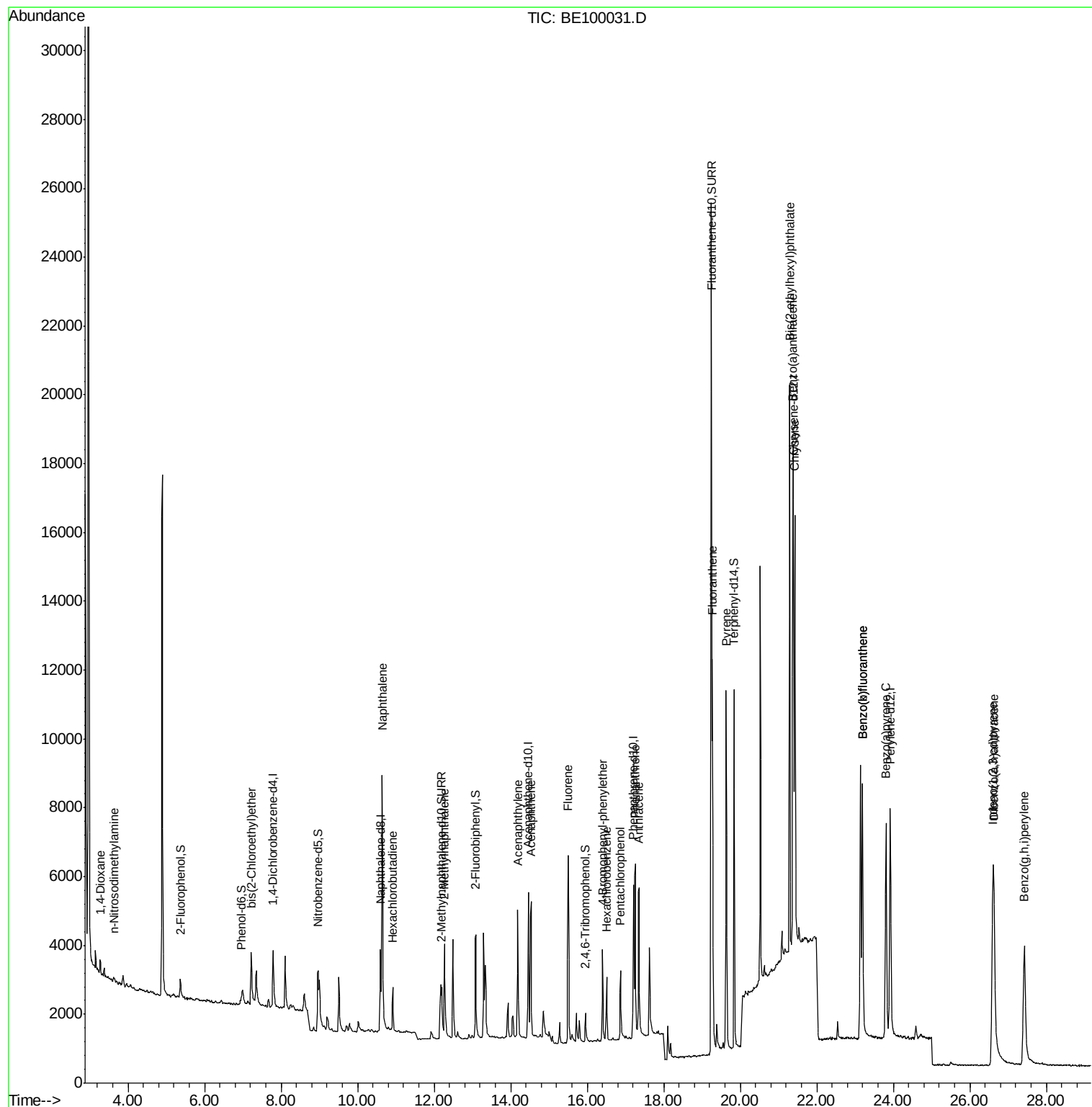
|                                |       |     |       |        |    |       |
|--------------------------------|-------|-----|-------|--------|----|-------|
| Target Compounds               |       |     |       | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.27  | 88  | 323   | 0.223  | ng | # 63  |
| 3) n-Nitrosodimethylamine      | 3.62  | 42  | 71    | 0.085  | ng | # 100 |
| 6) bis(2-Chloroethyl)ether     | 7.22  | 93  | 869   | 0.313  | ng | # 94  |
| 9) Naphthalene                 | 10.64 | 128 | 14119 | 0.360  | ng | 99    |
| 10) Hexachlorobutadiene        | 10.91 | 225 | 970   | 0.324  | ng | 99    |
| 12) 2-Methylnaphthalene        | 12.27 | 142 | 2276  | 0.357  | ng | 98    |
| 16) Acenaphthylene             | 14.18 | 152 | 4506  | 0.347  | ng | 98    |
| 17) Acenaphthene               | 14.53 | 154 | 2429  | 0.344  | ng | 100   |
| 18) Fluorene                   | 15.50 | 166 | 3587  | 0.338  | ng | 99    |
| 20) 4-Bromophenyl-phenylether  | 16.40 | 248 | 1617  | 0.356  | ng | 98    |
| 21) Hexachlorobenzene          | 16.50 | 284 | 1614  | 0.348  | ng | 98    |
| 22) Pentachlorophenol          | 16.87 | 266 | 1512  | 0.977  | ng | # 83  |
| 23) Phenanthrene               | 17.25 | 178 | 6685  | 0.344  | ng | 99    |
| 24) Anthracene                 | 17.35 | 178 | 6162  | 0.346  | ng | 98    |
| 26) Fluoranthene               | 19.27 | 202 | 10423 | 0.315  | ng | 98    |
| 28) Pyrene                     | 19.63 | 202 | 10927 | 0.410  | ng | 99    |
| 30) Benzo(a)anthracene         | 21.38 | 228 | 11907 | 0.393  | ng | 98    |
| 31) Chrysene                   | 21.43 | 228 | 12125 | 0.387  | ng | 98    |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 19269 | 0.443  | ng | 99    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.60 | 276 | 13198 | 0.355  | ng | 98    |
| 35) Benzo(b)fluoranthene       | 23.19 | 252 | 12287 | 0.385  | ng | 97    |
| 36) Benzo(k)fluoranthene       | 23.19 | 252 | 12287 | 0.368  | ng | 97    |
| 37) Benzo(a)pyrene             | 23.81 | 252 | 11682 | 0.372  | ng | # 91  |
| 38) Dibenzo(a,h)anthracene     | 26.63 | 278 | 9904  | 0.313  | ng | # 96  |
| 39) Benzo(g,h,i)perylene       | 27.42 | 276 | 11197 | 0.342  | ng | 97    |

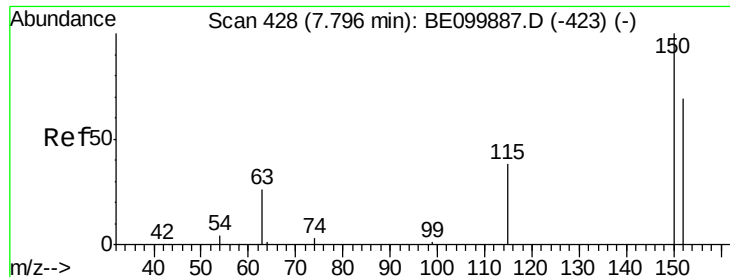
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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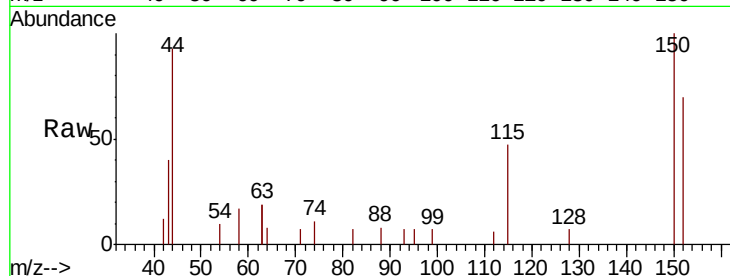


#1

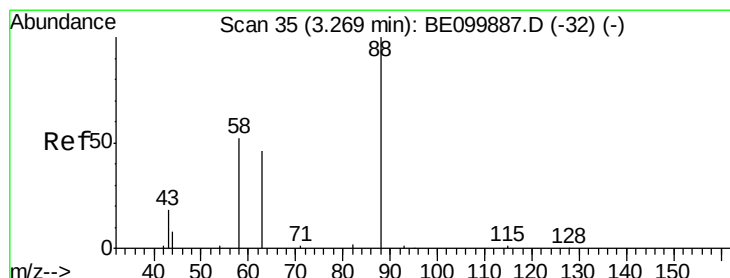
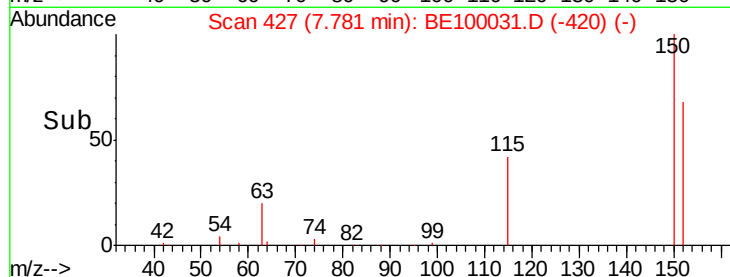
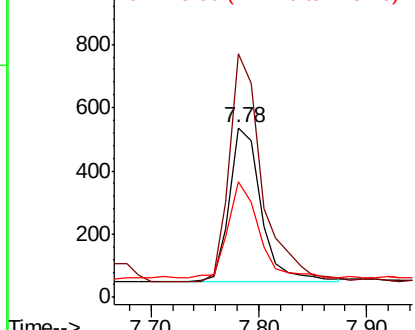
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.78 min Scan# 427  
 Delta R.T. -0.01 min  
 Lab File: BE100031.D  
 Acq: 14 Jun 2019 19:56

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-02MSD

Tgt Ion: 152 Resp: 977  
 Ion Ratio Lower Upper  
 152 100  
 150 143.7 111.0 166.6  
 115 68.1 50.7 76.1



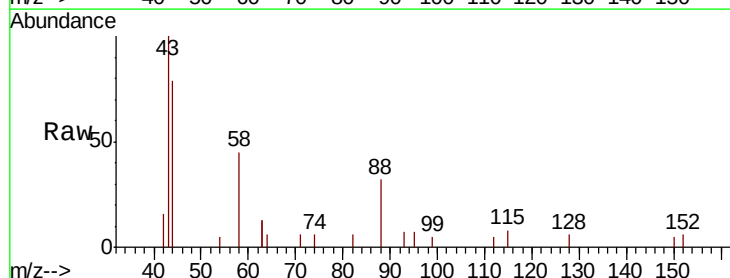
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



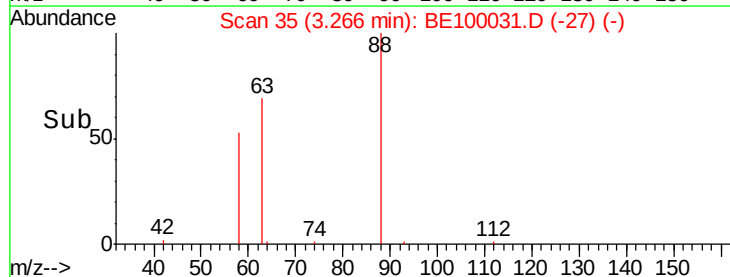
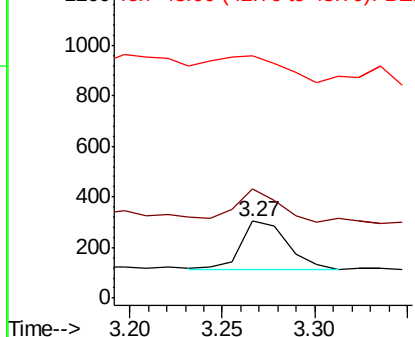
#2

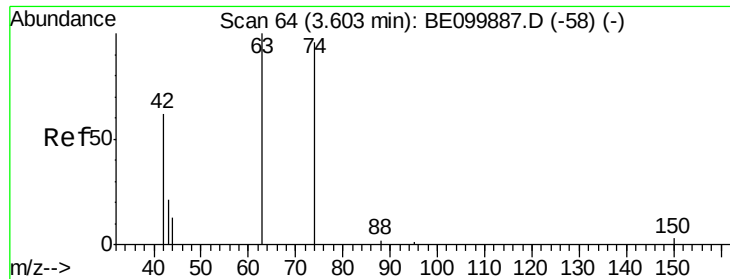
1,4-Dioxane  
 Concen: 0.223 ng  
 RT: 3.27 min Scan# 35  
 Delta R.T. -0.00 min  
 Lab File: BE100031.D  
 Acq: 14 Jun 2019 19:56

Tgt Ion: 88 Resp: 323  
 Ion Ratio Lower Upper  
 88 100  
 58 62.2 48.8 73.2  
 43 87.3 19.0 28.6#



Abundance Ion 88.00 (87.70 to 88.70): BE1  
 Ion 58.00 (57.70 to 58.70): BE1  
 Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.085 ng

RT: 3.62 min Scan# 66

Delta R.T. 0.02 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

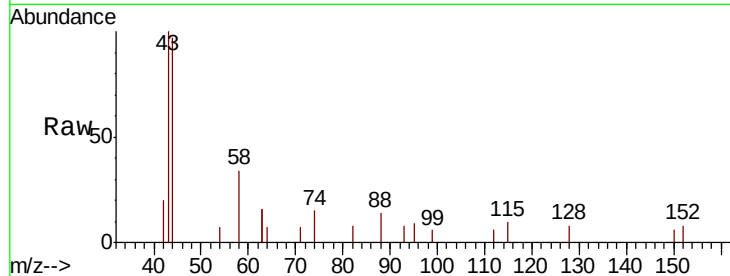
Tgt Ion: 42 Resp: 71

Ion Ratio Lower Upper

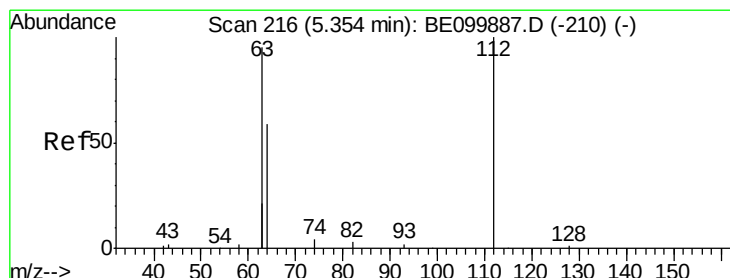
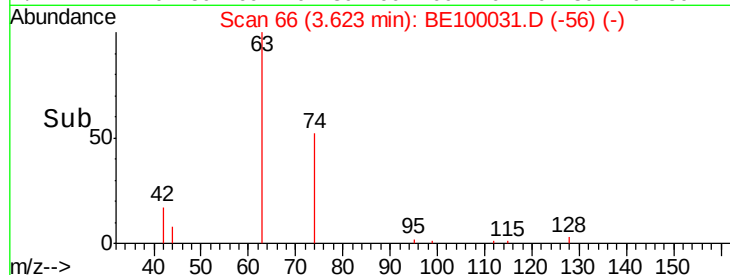
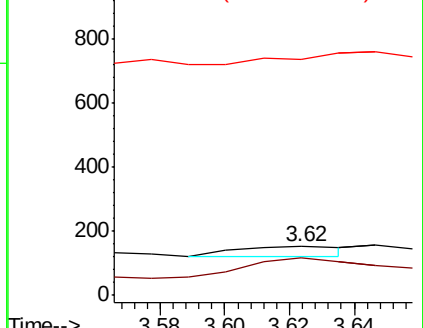
42 100

74 219.7 0.0 0.0#

44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE1  
Ion 74.00 (73.70 to 74.70): BE1  
Ion 44.00 (43.70 to 44.70): BE1



#4

2-Fluorophenol

Concen: 0.173 ng

RT: 5.36 min Scan# 217

Delta R.T. 0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

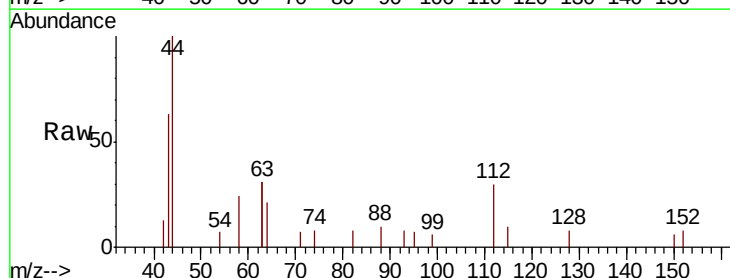
Tgt Ion: 112 Resp: 457

Ion Ratio Lower Upper

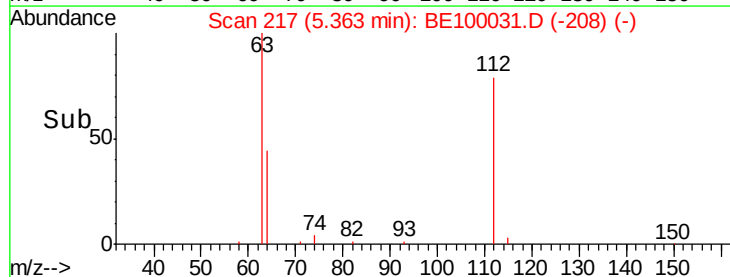
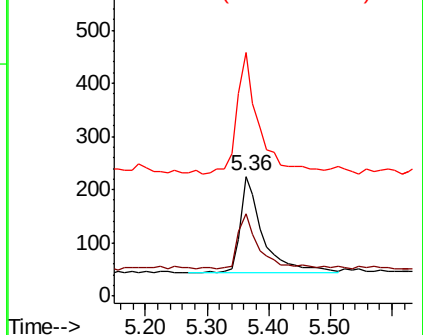
112 100

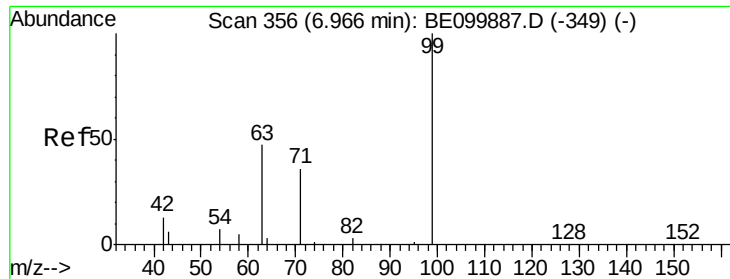
64 51.6 44.1 66.1

63 124.3 87.8 131.6



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.114 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.00 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

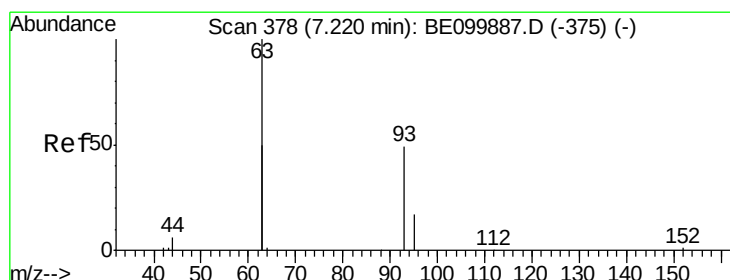
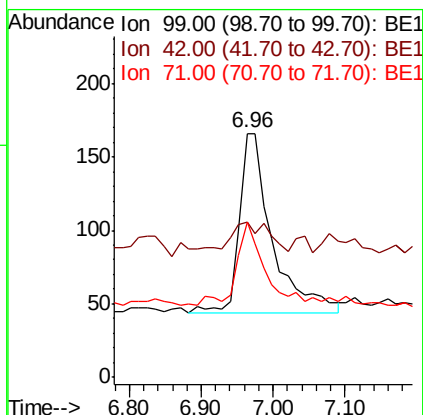
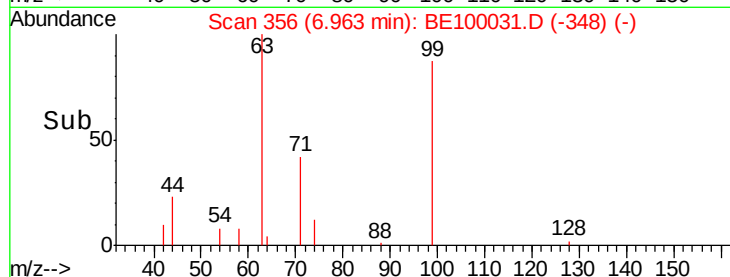
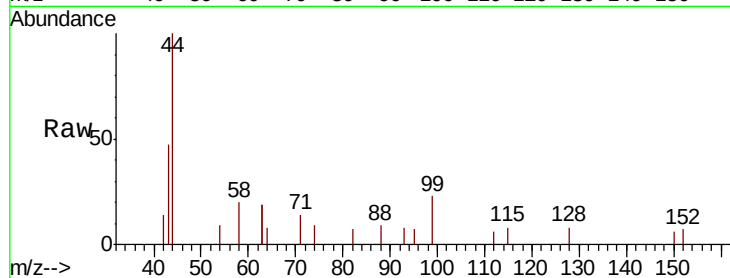
Tgt Ion: 99 Resp: 387

Ion Ratio Lower Upper

99 100

42 16.8 15.9 23.9

71 40.8 34.6 52.0



#6

bis(2-Chloroethyl)ether

Concen: 0.313 ng

RT: 7.22 min Scan# 378

Delta R.T. -0.00 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

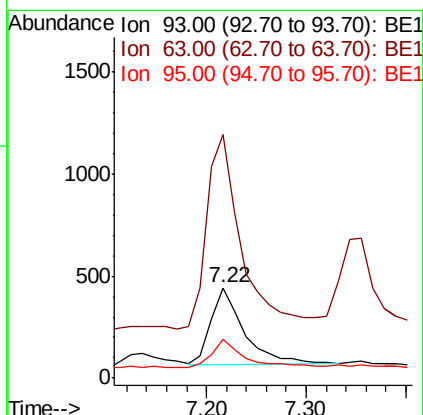
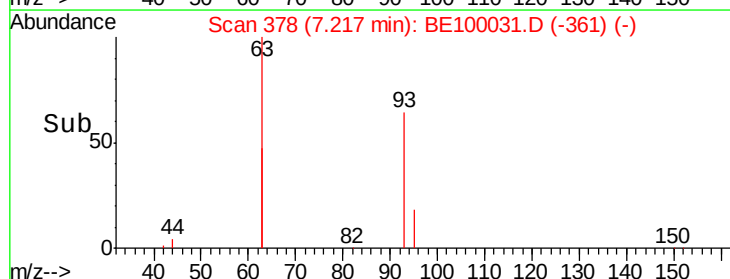
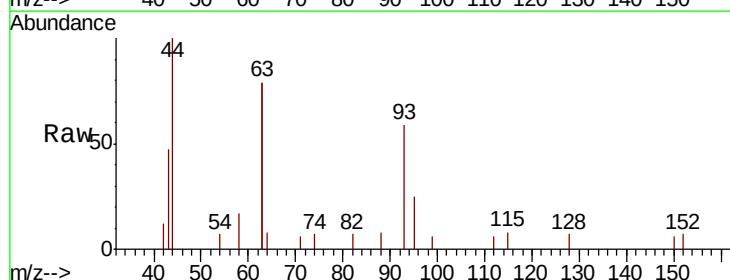
Tgt Ion: 93 Resp: 869

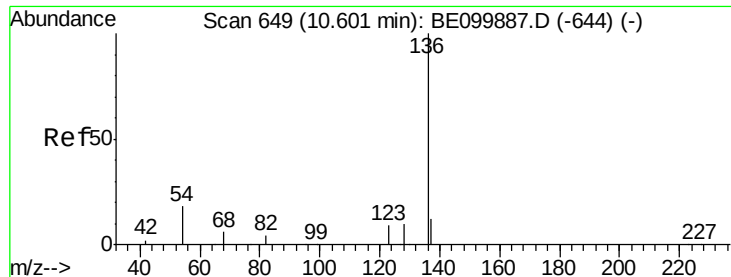
Ion Ratio Lower Upper

93 100

63 262.6 202.8 304.2

95 35.7 23.7 35.5#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.59 min Scan# 648

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

Tgt Ion: 136 Resp: 3637

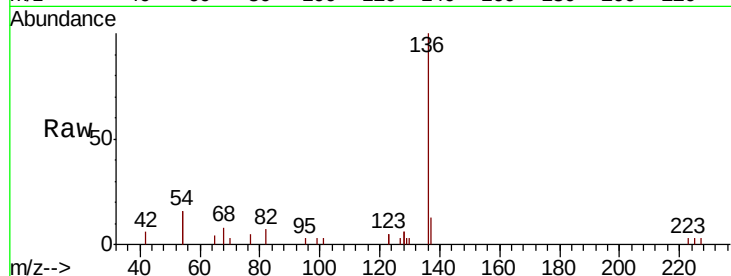
Ion Ratio Lower Upper

136 100

137 13.2 12.3 18.5

54 32.8 28.2 42.4

68 7.9 7.8 11.8

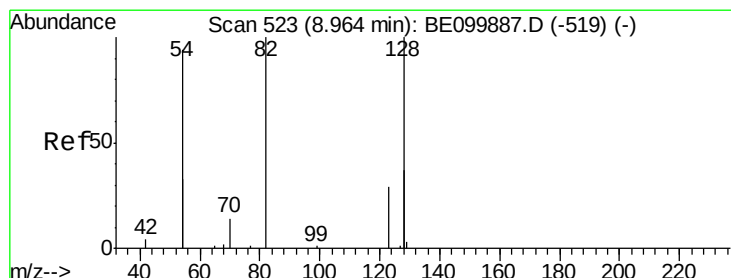
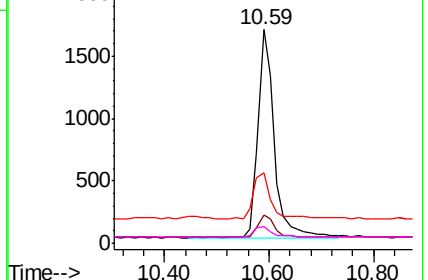
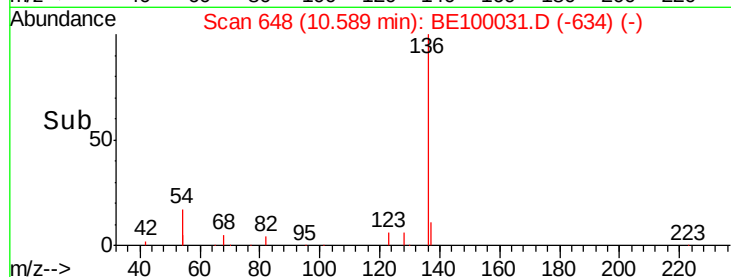


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.380 ng

RT: 8.95 min Scan# 522

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

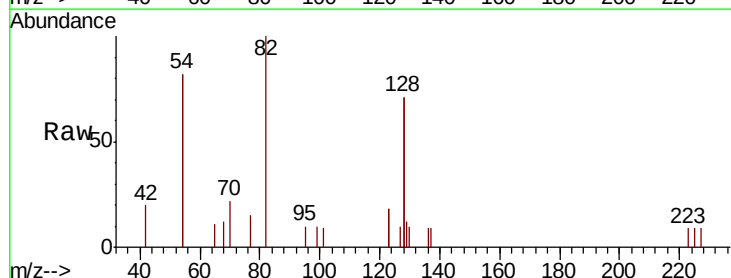
Tgt Ion: 82 Resp: 1310

Ion Ratio Lower Upper

82 100

128 142.3 137.3 205.9

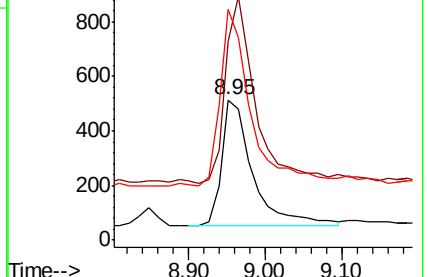
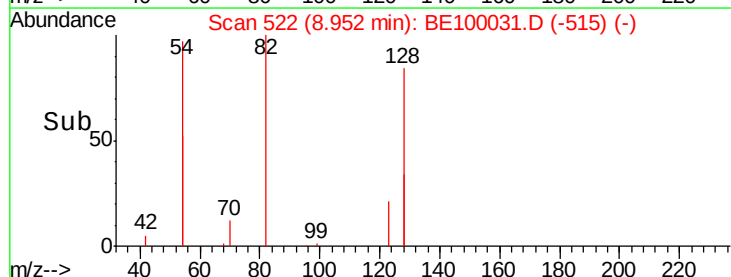
54 164.5 129.7 194.5

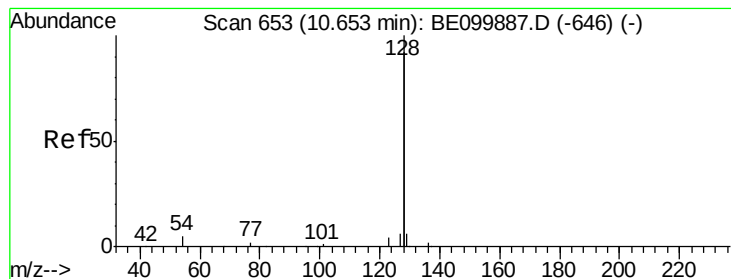


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.360 ng

RT: 10.64 min Scan# 652

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

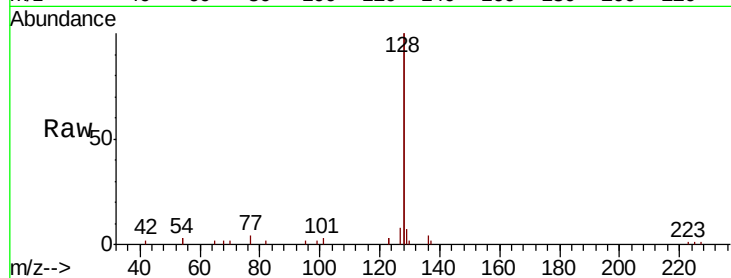
Tgt Ion:128 Resp: 14119

Ion Ratio Lower Upper

128 100

129 3.3 3.0 4.6

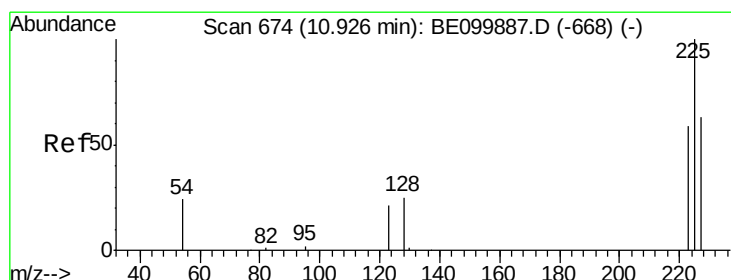
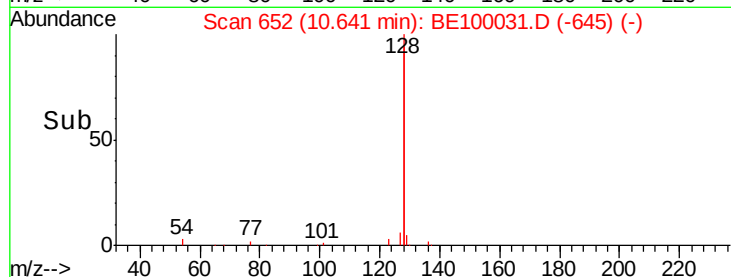
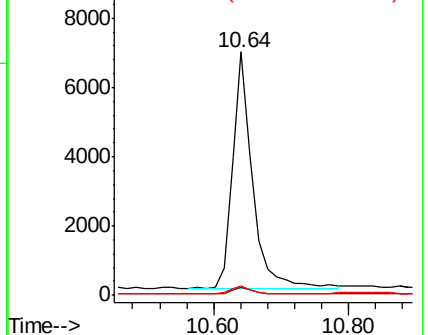
127 3.8 3.4 5.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.324 ng

RT: 10.91 min Scan# 673

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

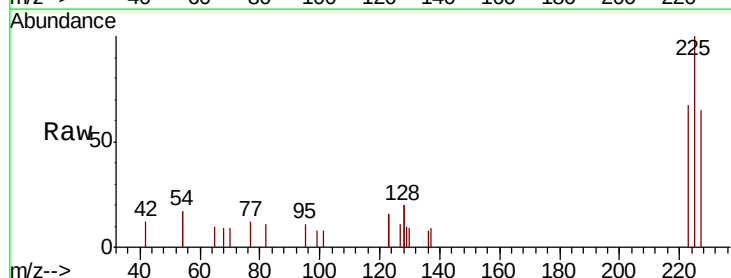
Tgt Ion:225 Resp: 970

Ion Ratio Lower Upper

225 100

223 63.9 51.6 77.4

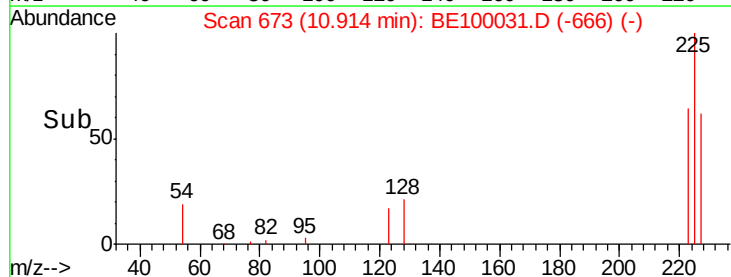
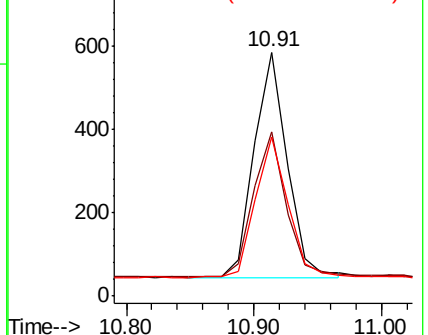
227 62.4 50.6 76.0

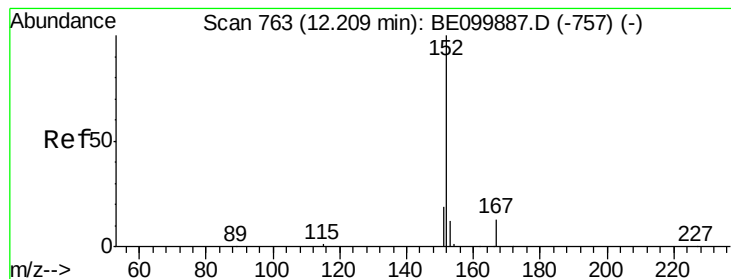


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.535 ng

RT: 12.20 min Scan# 762

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

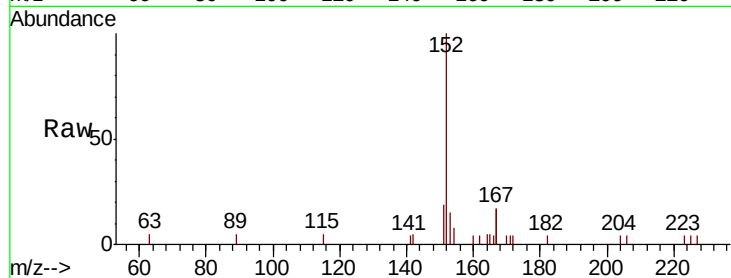
GW-02MSD

Tgt Ion:152 Resp: 3391

Ion Ratio Lower Upper

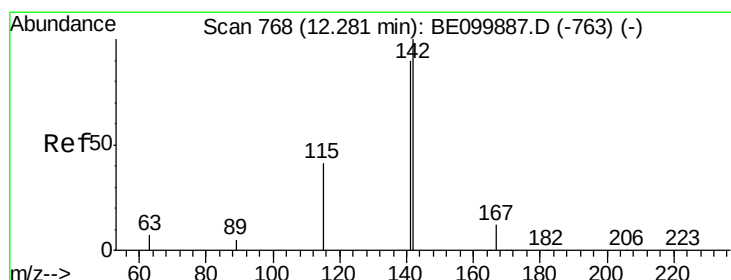
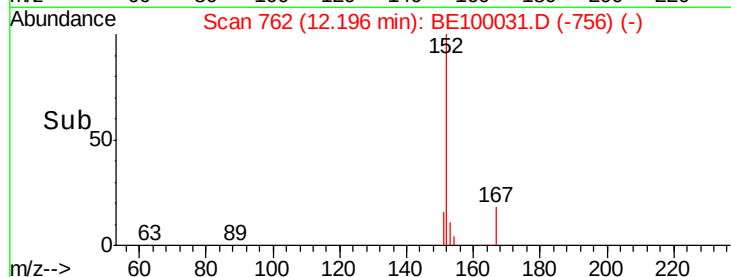
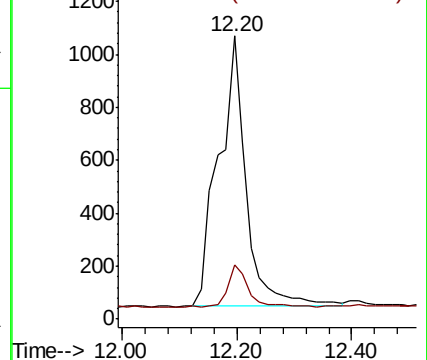
152 100

151 11.3 15.2 22.8#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.357 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

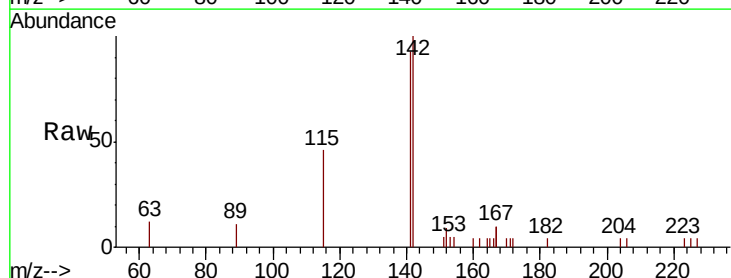
Tgt Ion:142 Resp: 2276

Ion Ratio Lower Upper

142 100

141 92.5 72.3 108.5

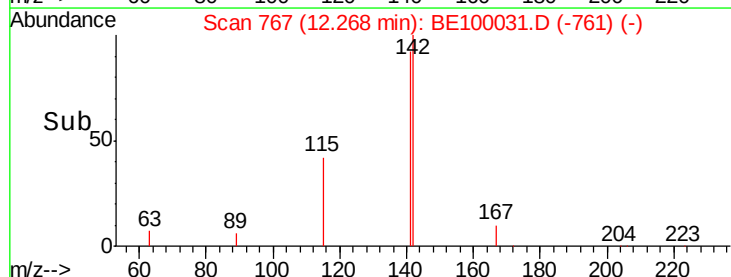
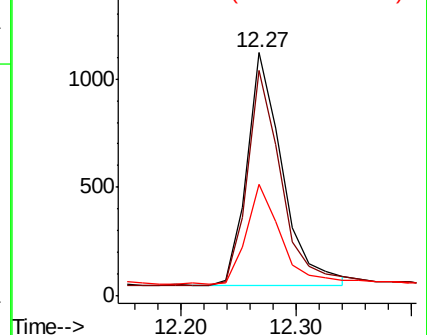
115 45.7 36.4 54.6



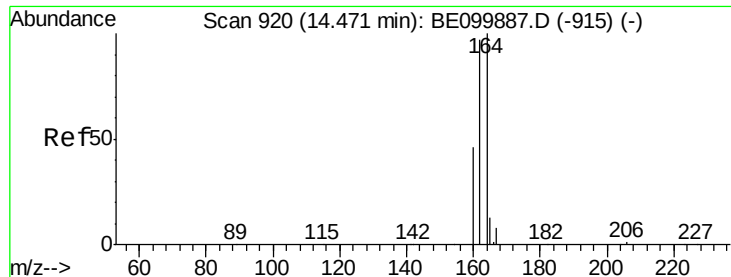
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

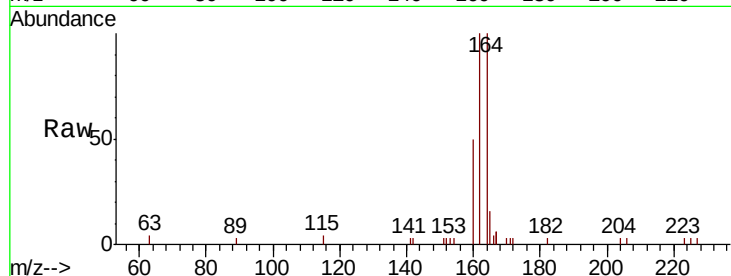
Tgt Ion:164 Resp: 2607

Ion Ratio Lower Upper

164 100

162 99.8 77.8 116.8

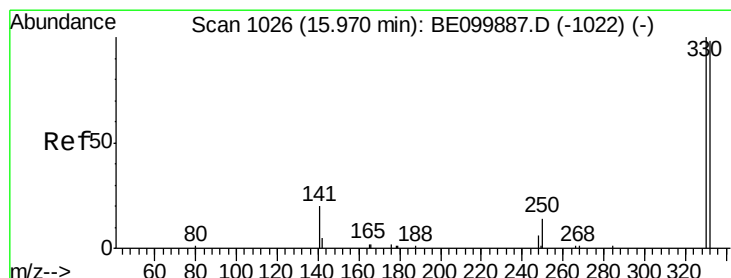
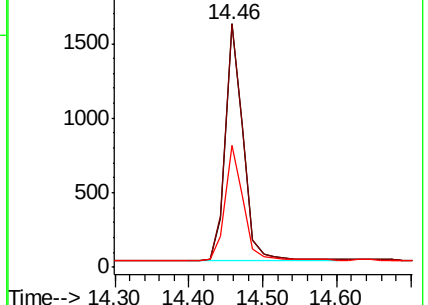
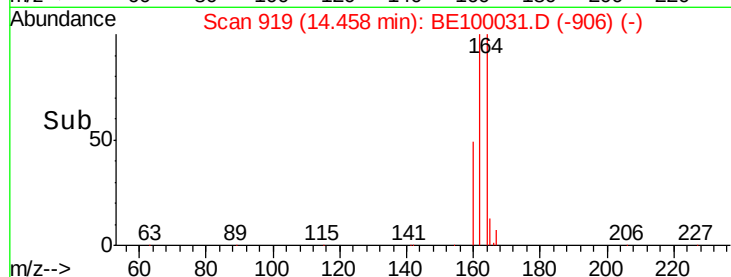
160 50.4 38.2 57.4



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



#14

2,4,6-Tribromophenol

Concen: 0.339 ng

RT: 15.96 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

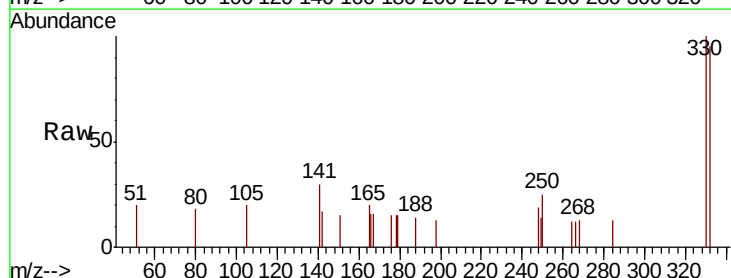
Tgt Ion:330 Resp: 653

Ion Ratio Lower Upper

330 100

332 92.3 76.7 115.1

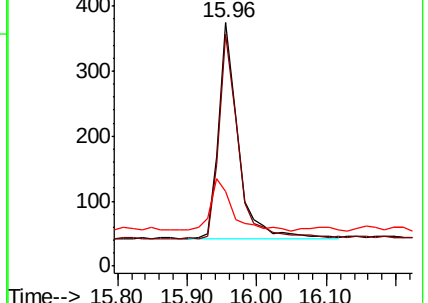
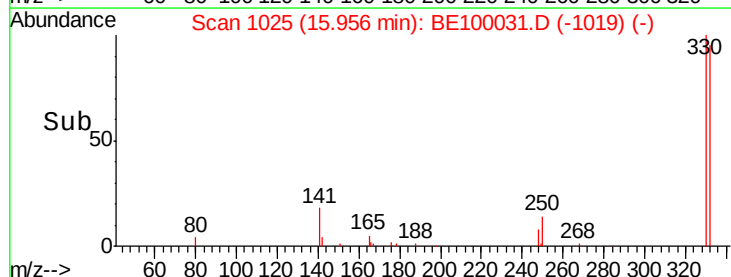
141 26.6 21.0 31.6

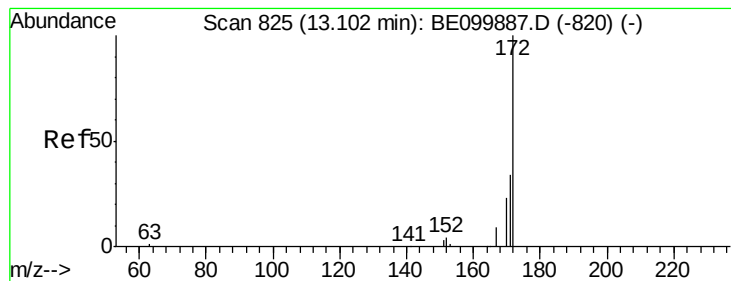


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.415 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

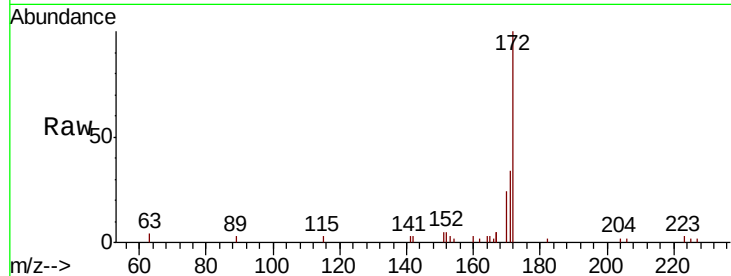
Tgt Ion:172 Resp: 4100

Ion Ratio Lower Upper

172 100

171 34.5 29.2 43.8

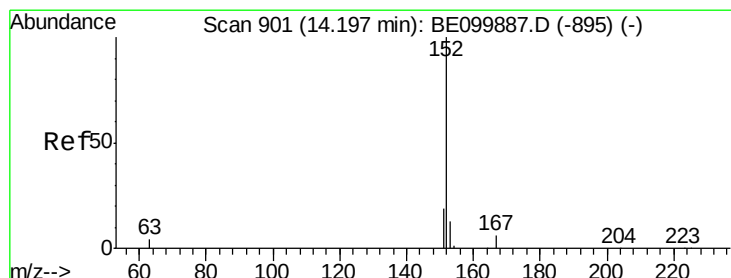
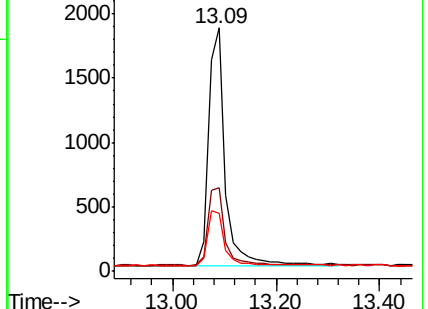
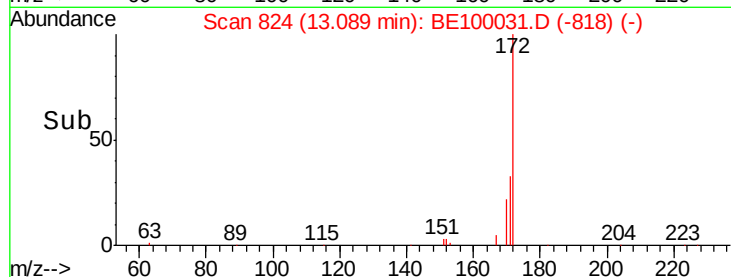
170 23.9 21.2 31.8



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: 0.347 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

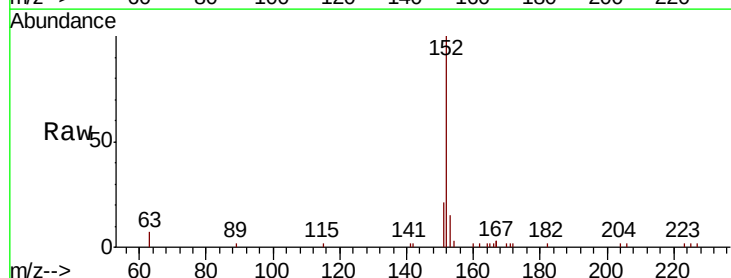
Tgt Ion:152 Resp: 4506

Ion Ratio Lower Upper

152 100

151 20.2 15.5 23.3

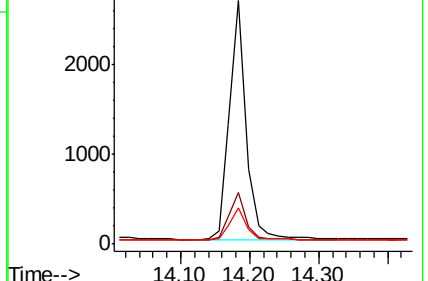
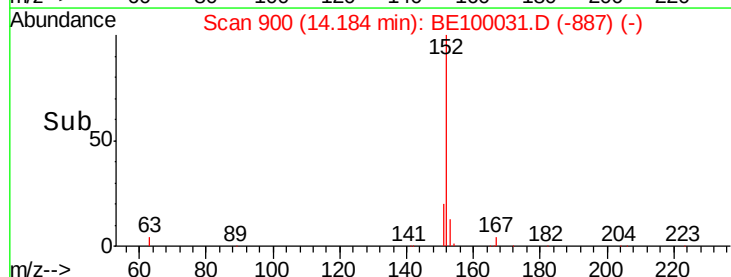
153 13.5 10.2 15.2

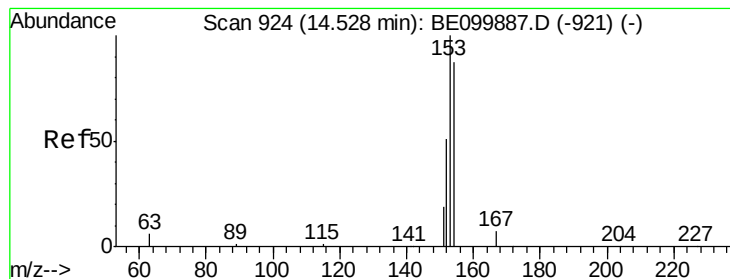


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.344 ng

RT: 14.53 min Scan# 924

Delta R.T. 0.00 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

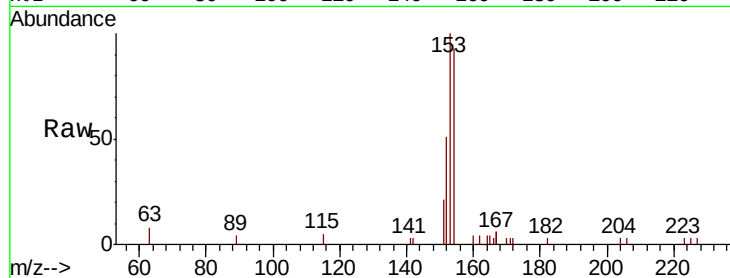
Tgt Ion:154 Resp: 2429

Ion Ratio Lower Upper

154 100

153 116.1 93.1 139.7

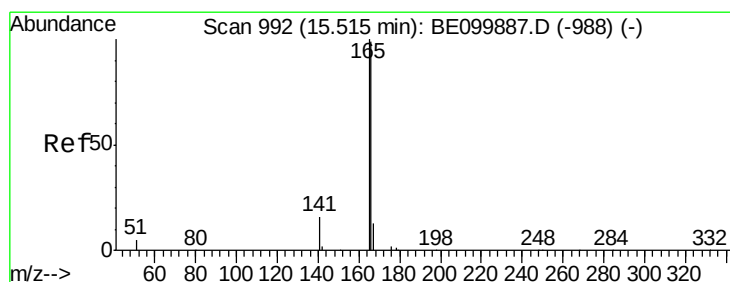
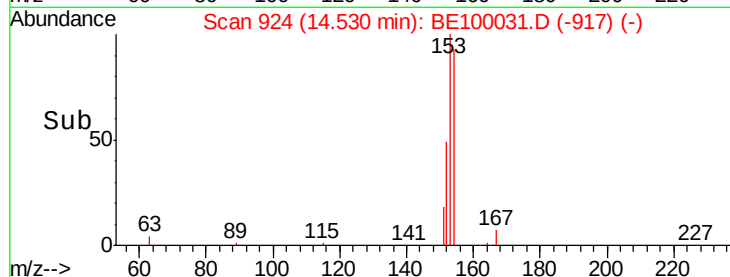
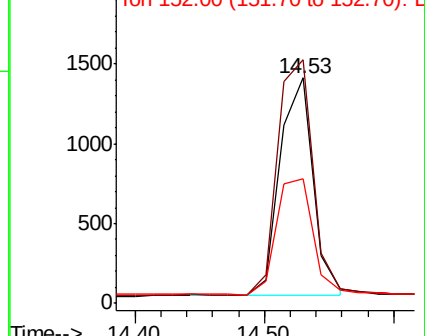
152 58.5 47.0 70.4



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



#18

Fluorene

Concen: 0.338 ng

RT: 15.50 min Scan# 991

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

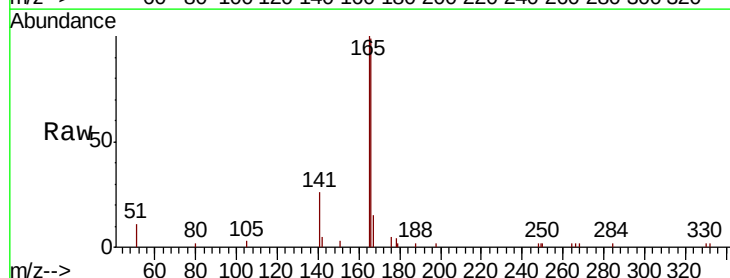
Tgt Ion:166 Resp: 3587

Ion Ratio Lower Upper

166 100

165 100.9 81.8 122.8

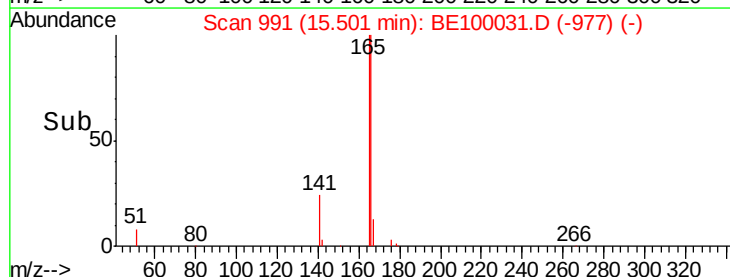
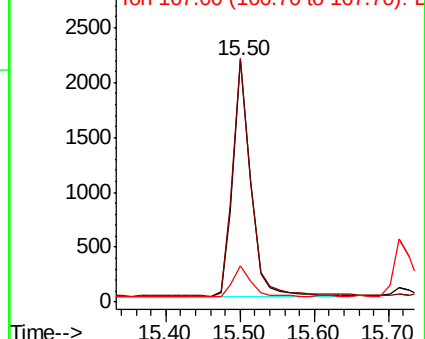
167 13.3 11.2 16.8

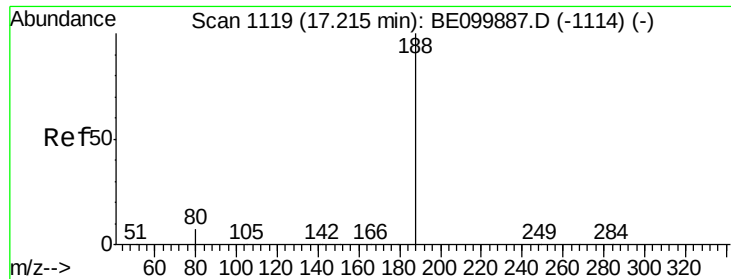


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

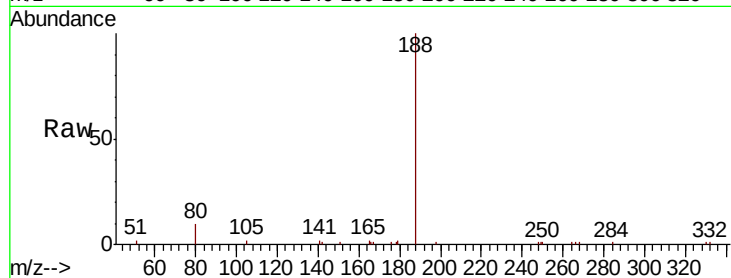
Tgt Ion:188 Resp: 8011

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

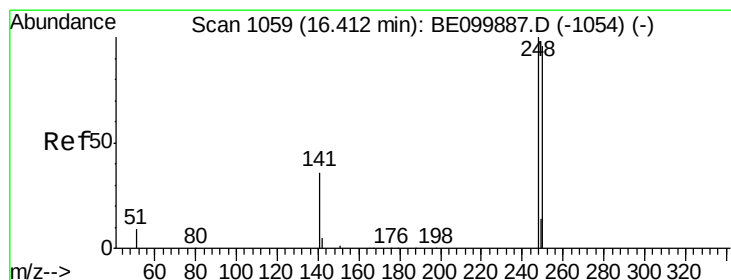
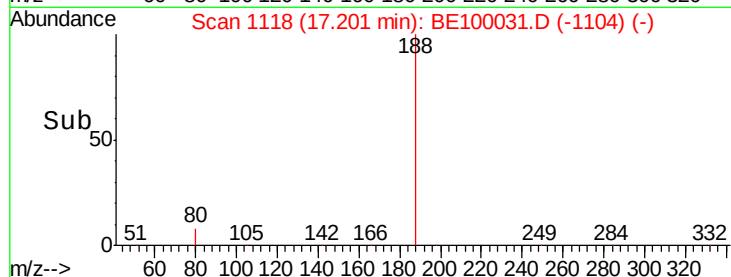
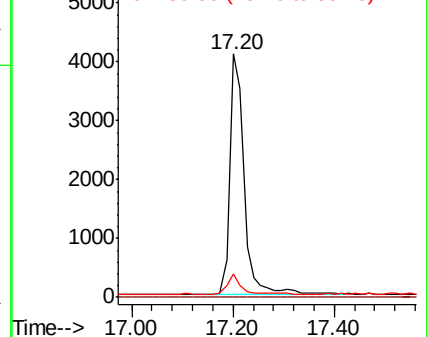
80 9.8 6.4 9.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#20

4-Bromophenyl-phenylether

Concen: 0.356 ng

RT: 16.40 min Scan# 1058

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

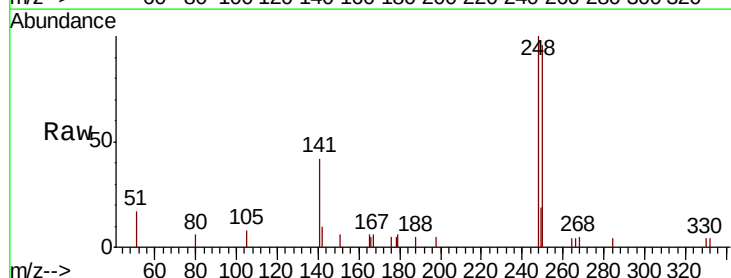
Tgt Ion:248 Resp: 1617

Ion Ratio Lower Upper

248 100

250 95.7 77.5 116.3

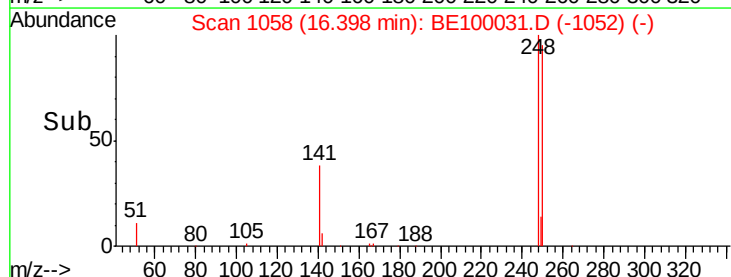
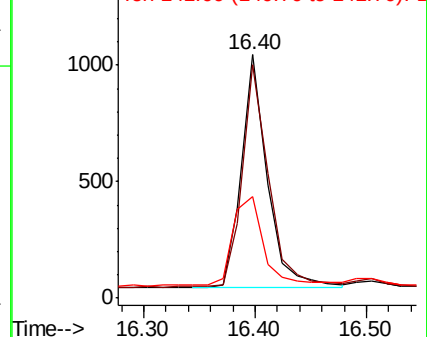
141 41.6 31.8 47.8

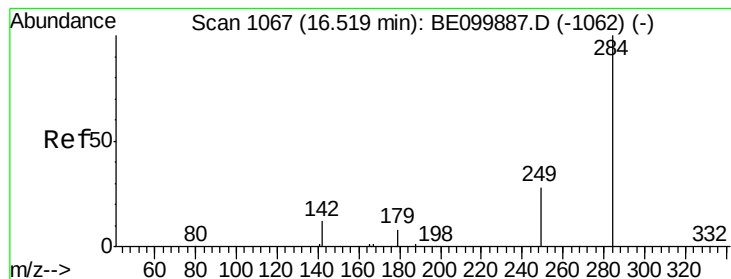


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.348 ng

RT: 16.50 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampled :

GW-02MSD

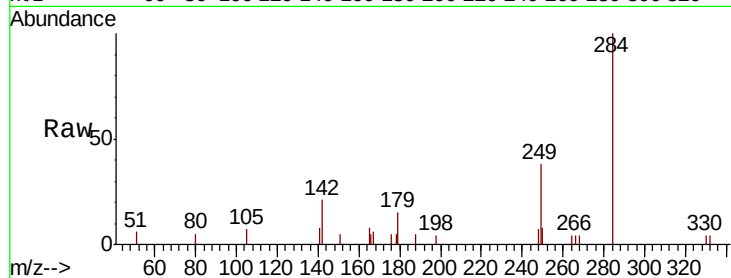
Tgt Ion:284 Resp: 1614

Ion Ratio Lower Upper

284 100

142 22.5 18.2 27.4

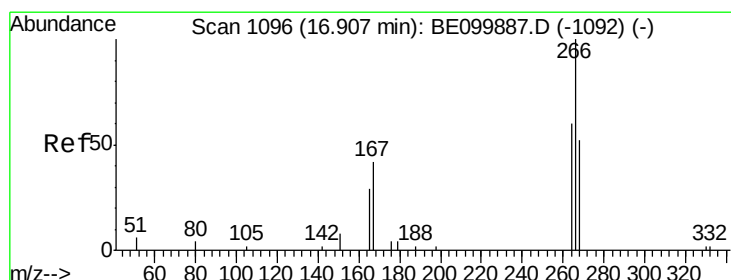
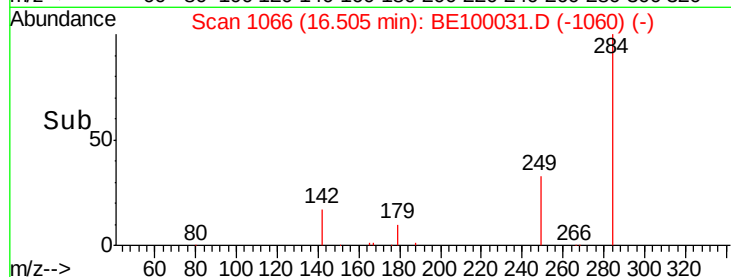
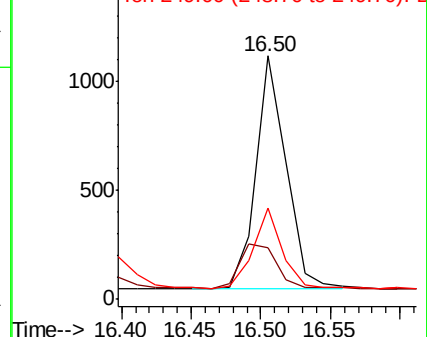
249 32.5 24.6 37.0



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.977 ng

RT: 16.87 min Scan# 1093

Delta R.T. -0.04 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

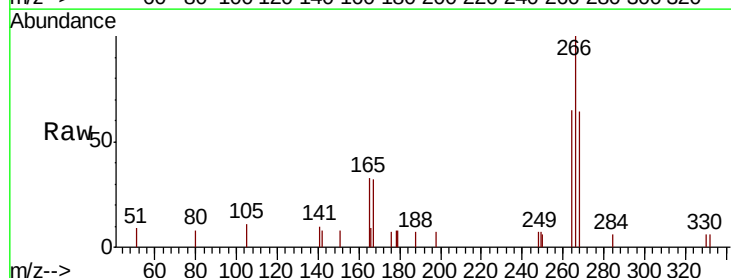
Tgt Ion:266 Resp: 1512

Ion Ratio Lower Upper

266 100

264 64.9 62.2 93.2

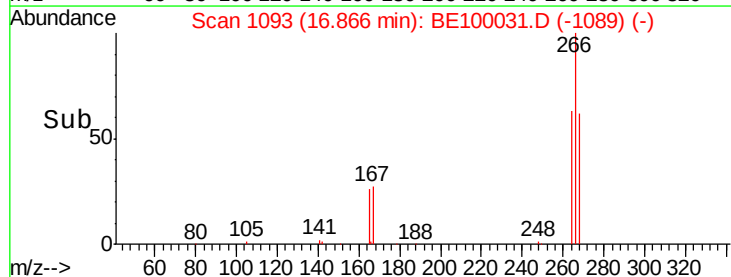
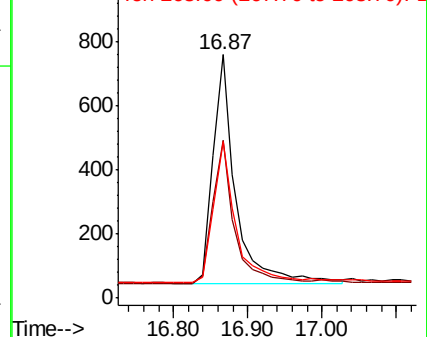
268 64.3 65.5 98.3#

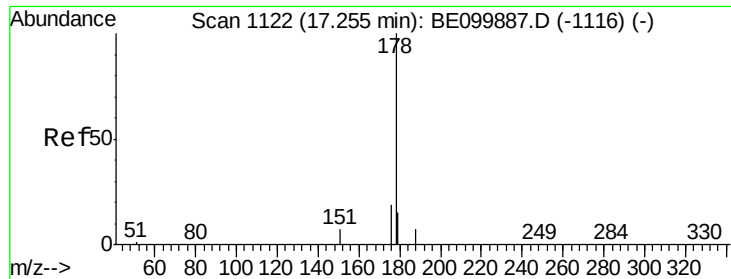


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.344 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

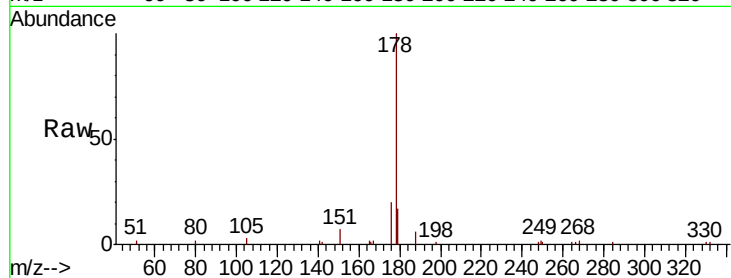
Tgt Ion:178 Resp: 6685

Ion Ratio Lower Upper

178 100

176 20.2 15.8 23.8

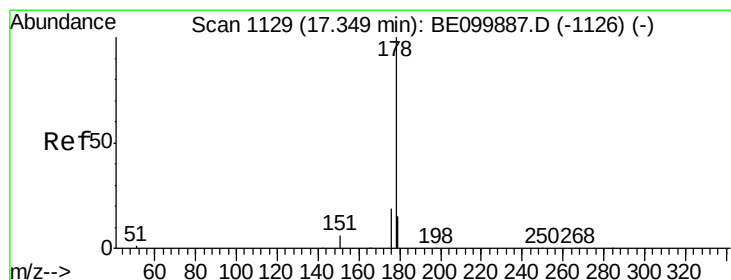
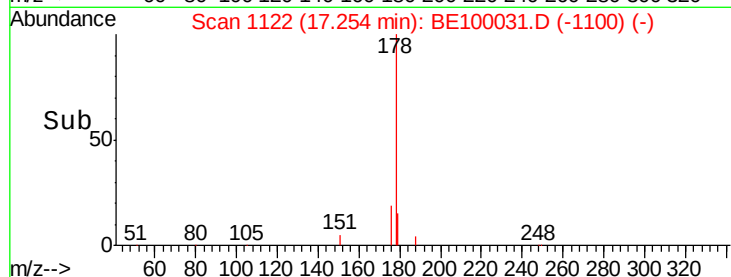
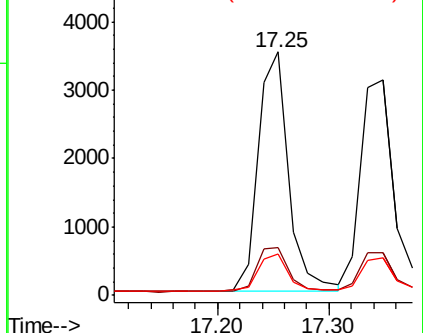
179 15.7 12.4 18.6



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: 0.346 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.00 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

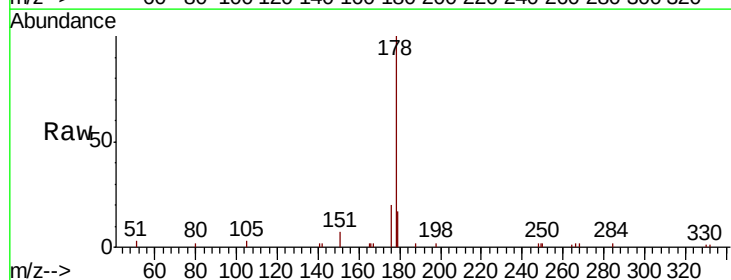
Tgt Ion:178 Resp: 6162

Ion Ratio Lower Upper

178 100

176 19.4 14.6 22.0

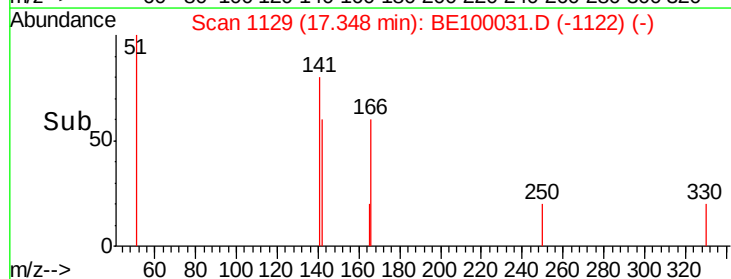
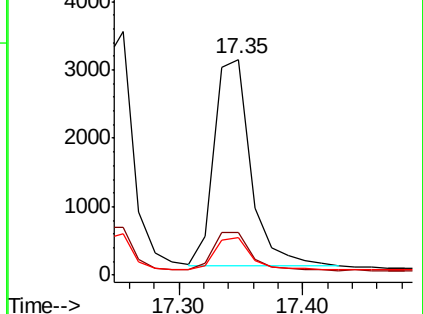
179 15.2 12.3 18.5

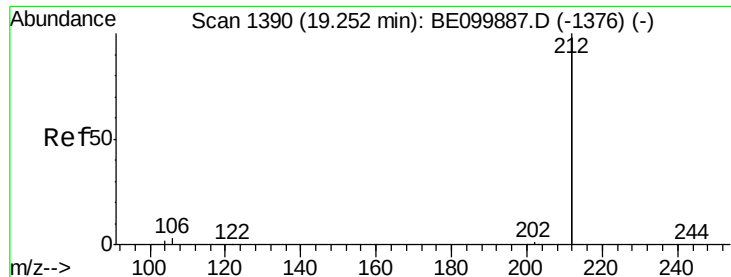


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.301 ng

RT: 19.24 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

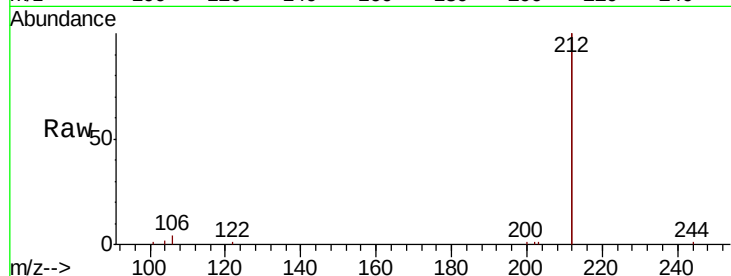
Tgt Ion:212 Resp: 35180

Ion Ratio Lower Upper

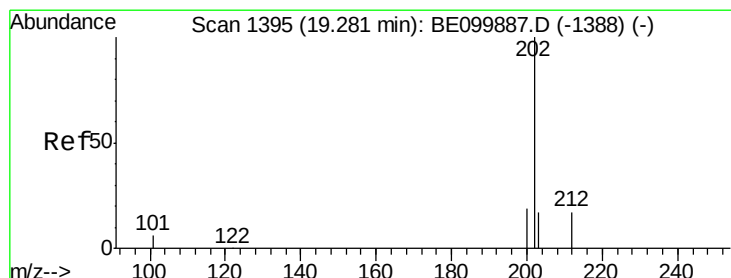
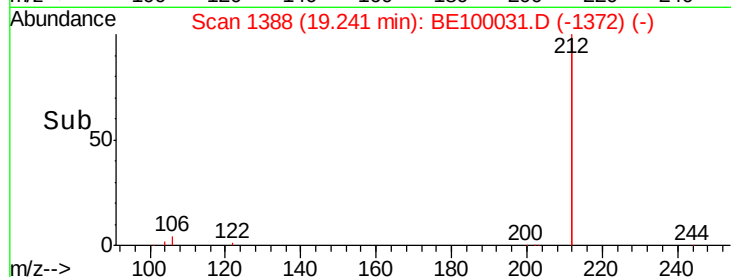
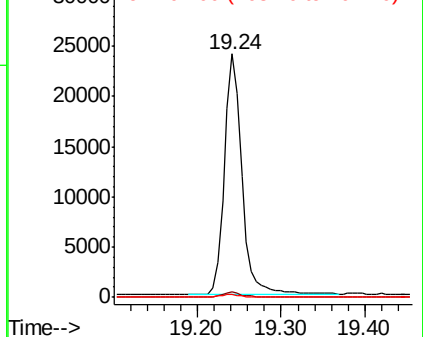
212 100

106 1.9 1.4 2.2

104 1.1 0.9 1.3



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: 0.315 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

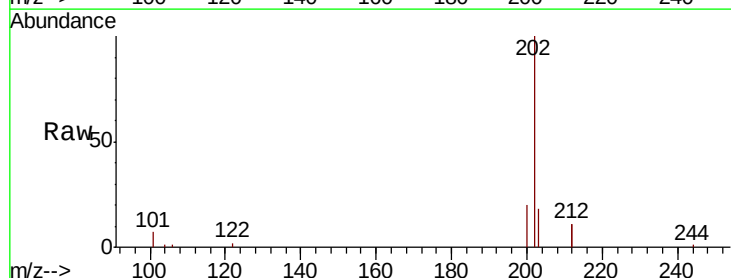
Tgt Ion:202 Resp: 10423

Ion Ratio Lower Upper

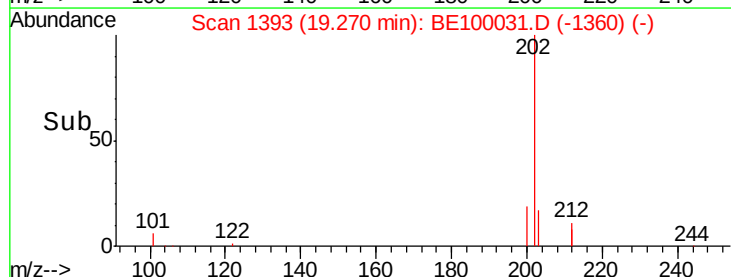
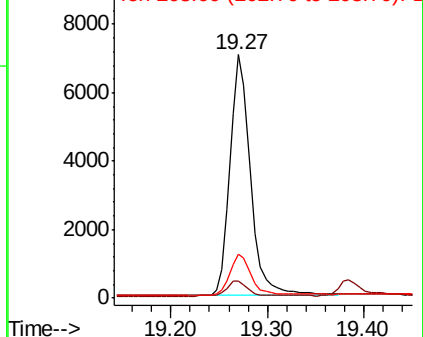
202 100

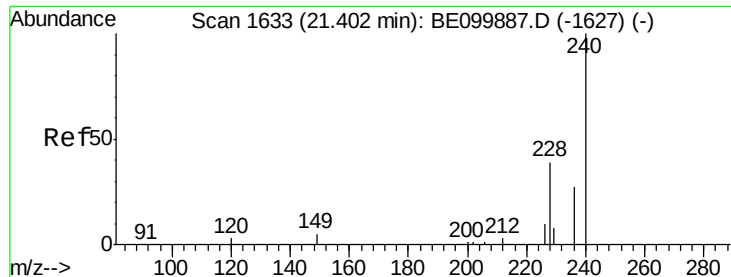
101 7.0 5.4 8.0

203 17.8 13.2 19.8



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: 21.39 min Scan# 1632

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

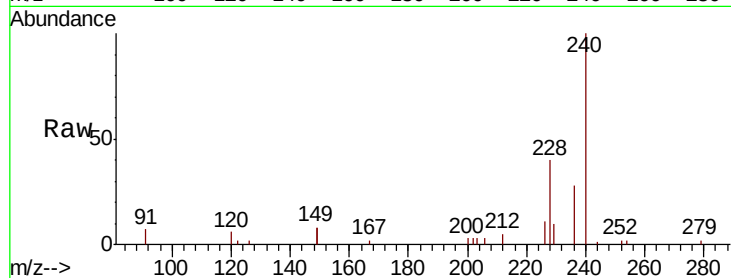
Tgt Ion:240 Resp: 10144

Ion Ratio Lower Upper

240 100

120 6.2 3.8 5.6#

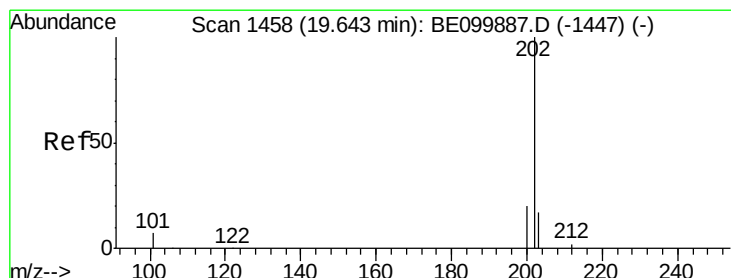
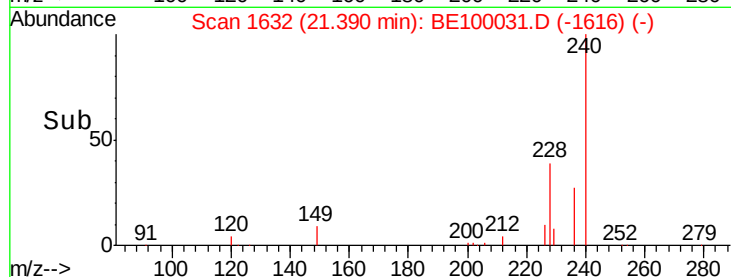
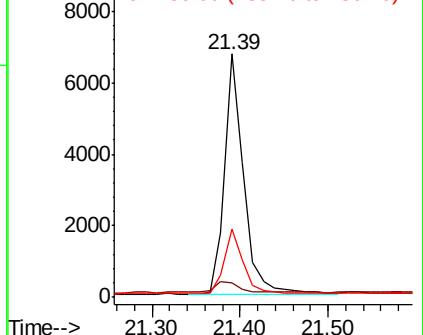
236 28.2 22.0 33.0



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



#28

Pyrene

Concen: 0.410 ng

RT: 19.63 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

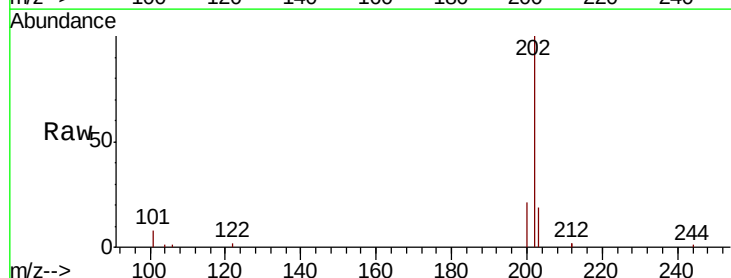
Tgt Ion:202 Resp: 10927

Ion Ratio Lower Upper

202 100

200 19.4 15.5 23.3

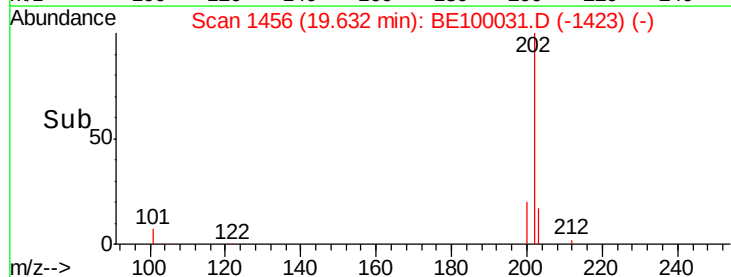
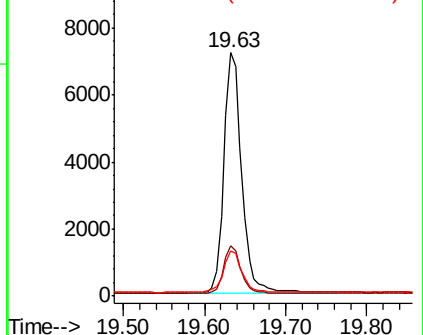
203 18.2 14.0 21.0



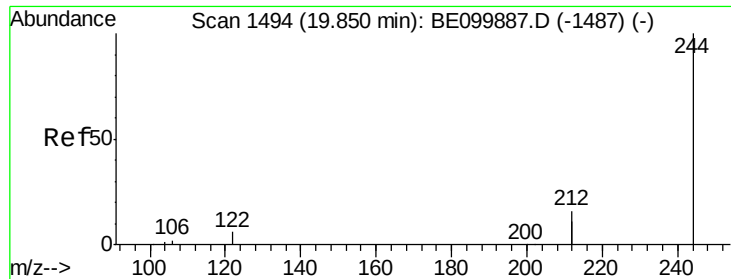
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.577 ng

RT: 19.84 min Scan# 1492

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

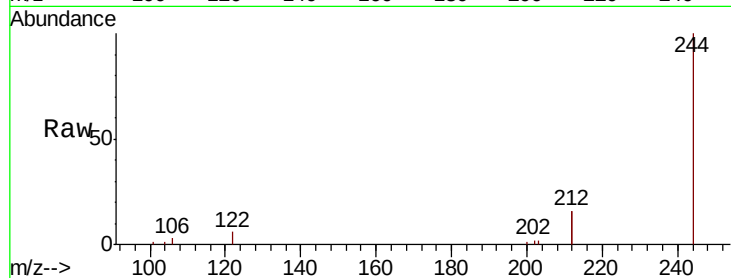
Tgt Ion:244 Resp: 10540

Ion Ratio Lower Upper

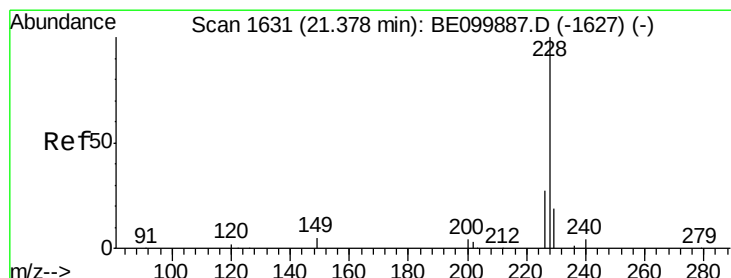
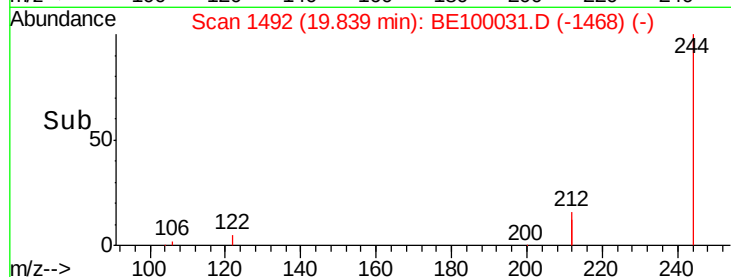
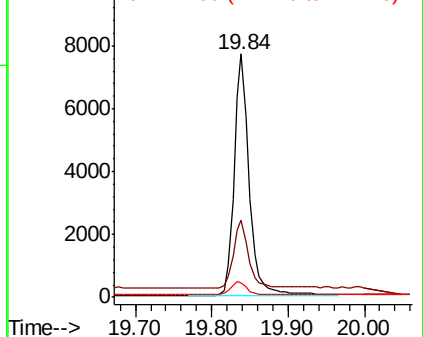
244 100

212 31.8 25.7 38.5

122 6.1 5.5 8.3



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: 0.393 ng

RT: 21.38 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

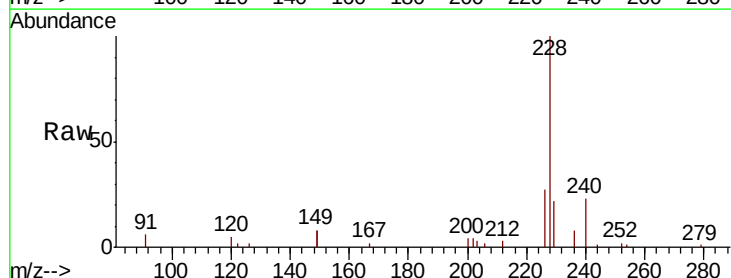
Tgt Ion:228 Resp: 11907

Ion Ratio Lower Upper

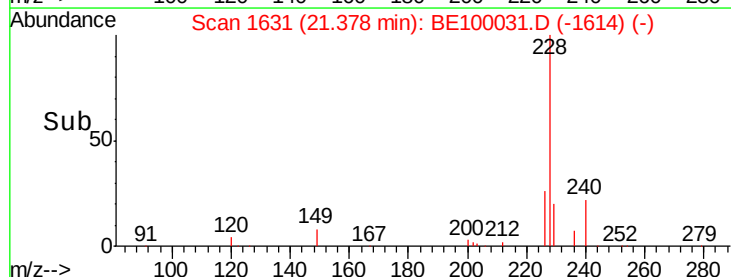
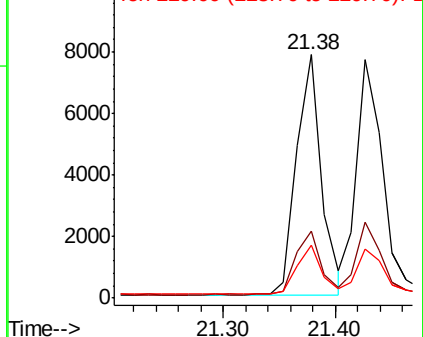
228 100

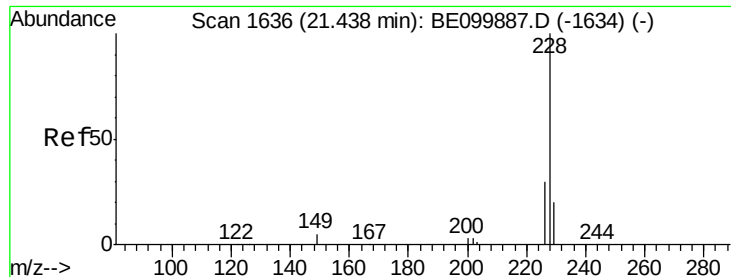
226 27.3 22.5 33.7

229 21.6 15.9 23.9



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: 0.387 ng

RT: 21.43 min Scan# 1635

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

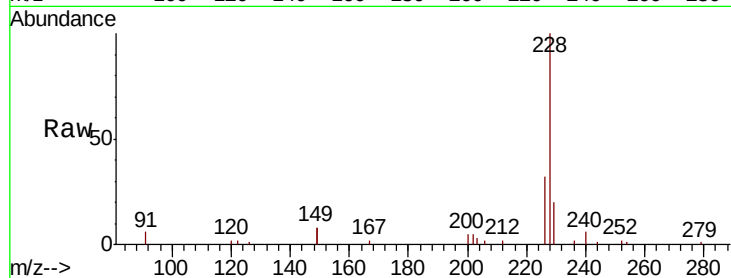
Tgt Ion:228 Resp: 12125

Ion Ratio Lower Upper

228 100

226 31.7 24.1 36.1

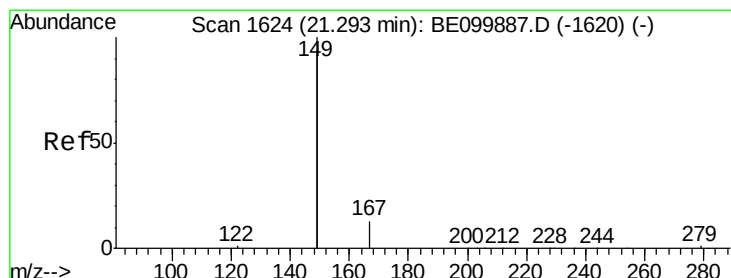
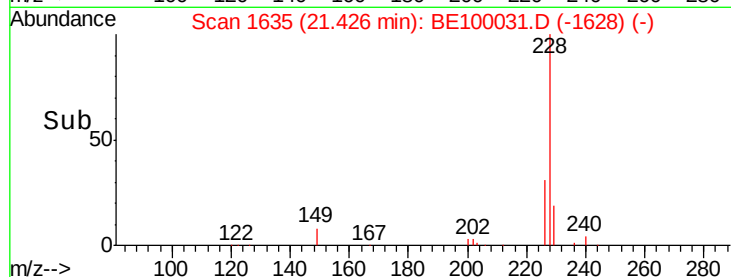
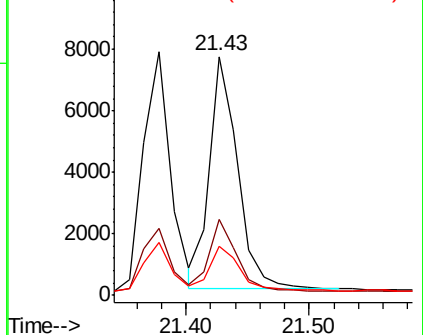
229 20.5 16.1 24.1



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.443 ng

RT: 21.29 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

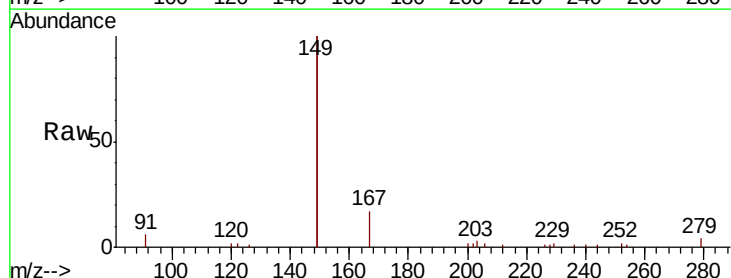
Tgt Ion:149 Resp: 19269

Ion Ratio Lower Upper

149 100

167 7.8 5.9 8.9

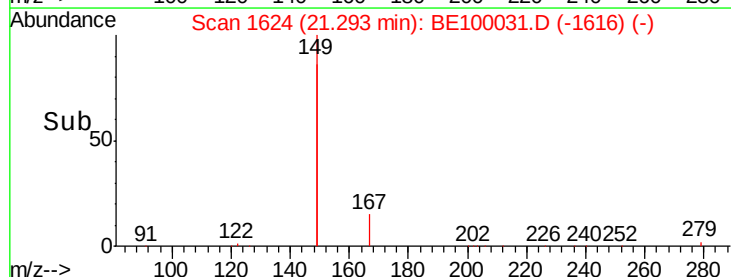
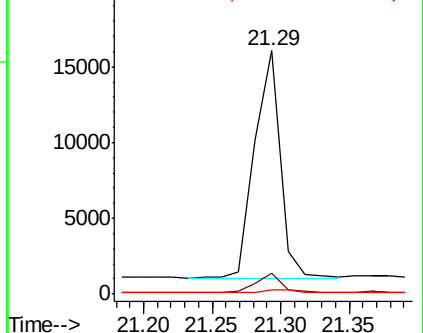
279 1.7 1.2 1.8

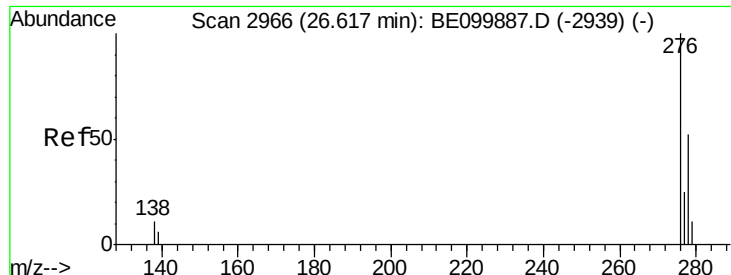


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.355 ng

RT: 26.60 min Scan# 2961

Delta R.T. -0.02 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

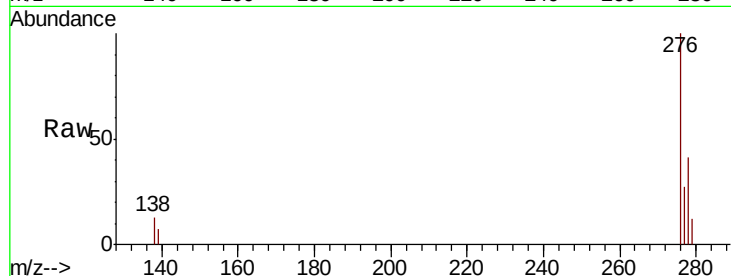
Tgt Ion:276 Resp: 13198

Ion Ratio Lower Upper

276 100

138 11.2 10.1 15.1

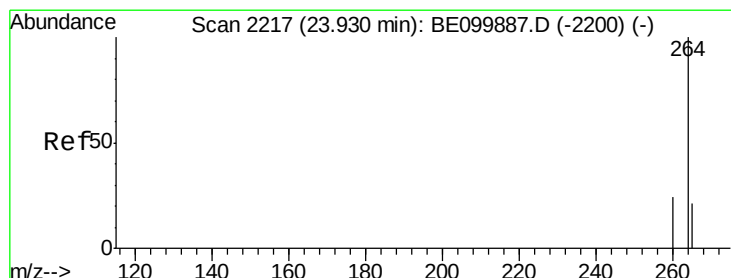
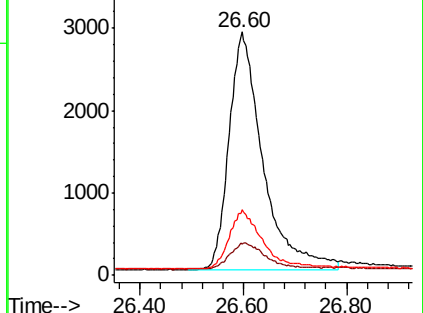
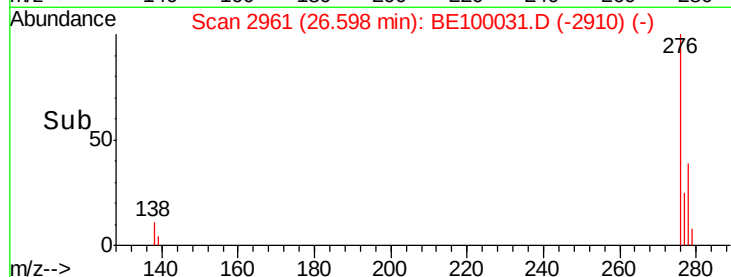
277 24.3 19.1 28.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.92 min Scan# 2214

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

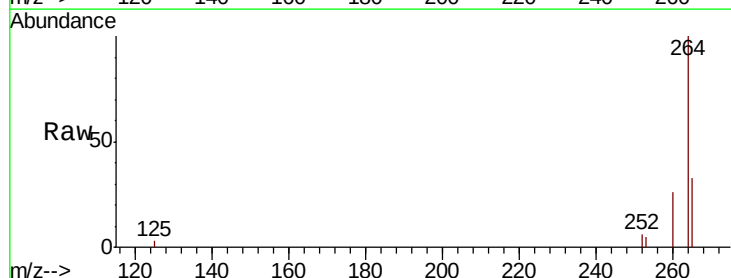
Tgt Ion:264 Resp: 11383

Ion Ratio Lower Upper

264 100

260 26.1 20.2 30.2

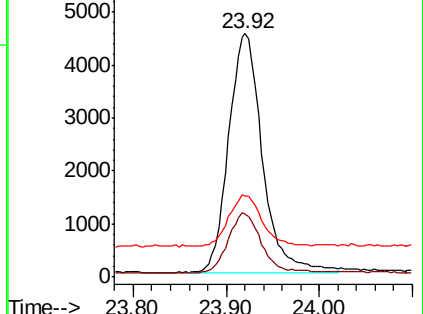
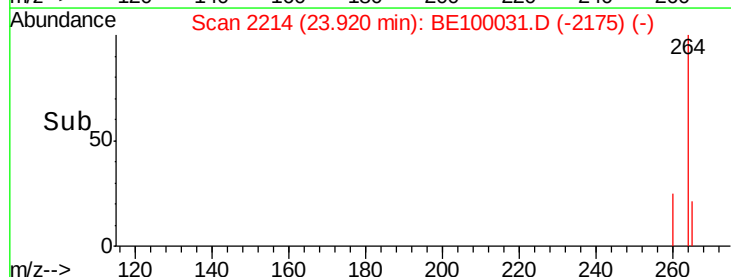
265 33.4 22.0 33.0#

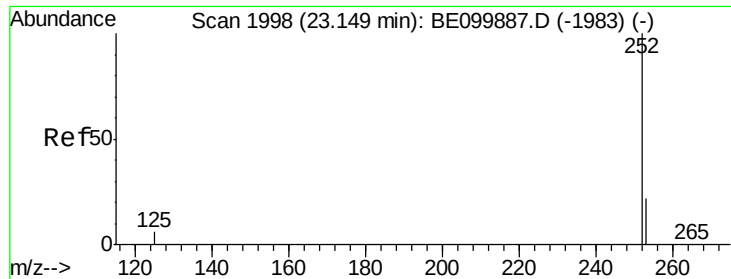


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

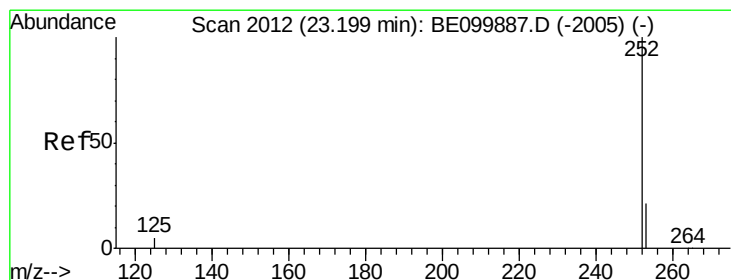
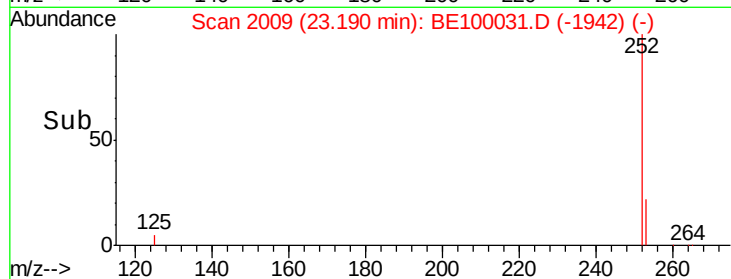
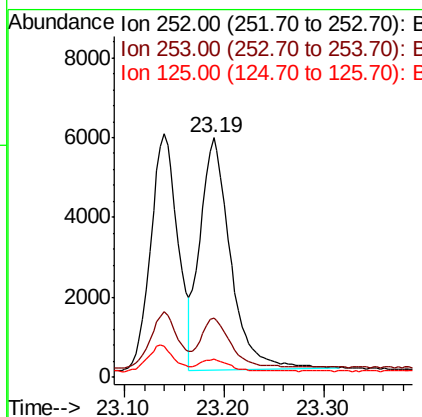
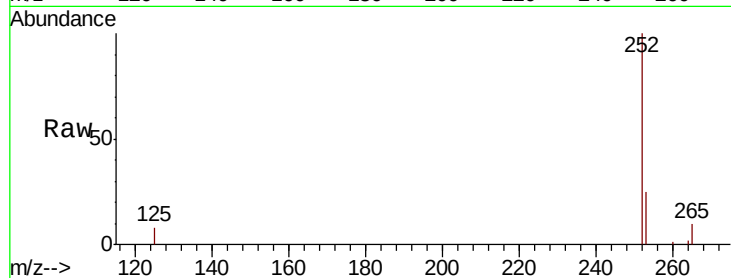




#35  
Benzo(b)fluoranthene  
Concen: 0.385 ng  
RT: 23.19 min Scan# 2009  
Delta R.T. 0.04 min  
Lab File: BE100031.D  
Acq: 14 Jun 2019 19:56

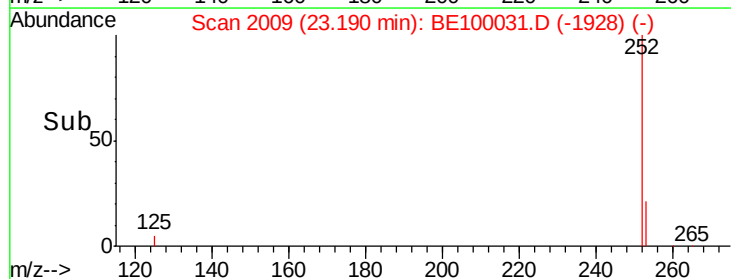
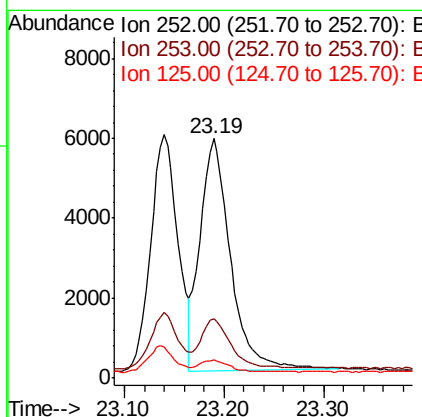
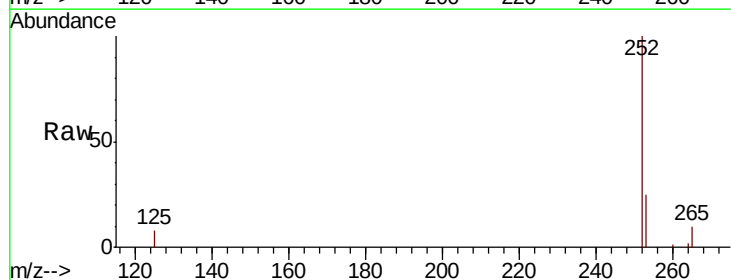
Instrument :  
BNA\_E  
ClientSampleId :  
GW-02MSD

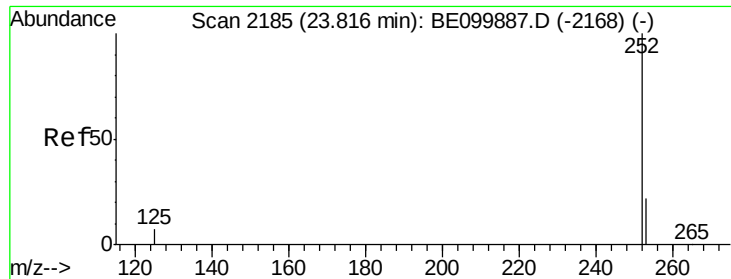
Tgt Ion: 252 Resp: 12287  
Ion Ratio Lower Upper  
252 100  
253 24.9 18.7 28.1  
125 7.6 5.7 8.5



#36  
Benzo(k)fluoranthene  
Concen: 0.368 ng  
RT: 23.19 min Scan# 2009  
Delta R.T. -0.01 min  
Lab File: BE100031.D  
Acq: 14 Jun 2019 19:56

Tgt Ion: 252 Resp: 12287  
Ion Ratio Lower Upper  
252 100  
253 24.9 18.6 28.0  
125 7.6 5.4 8.0

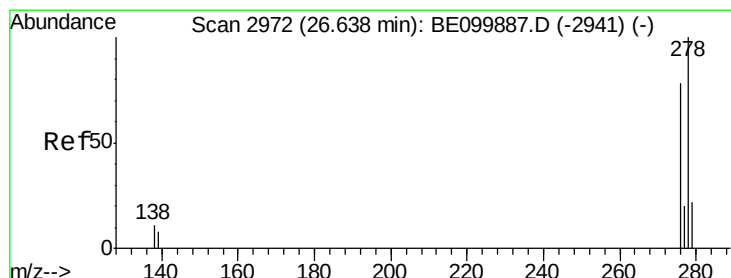
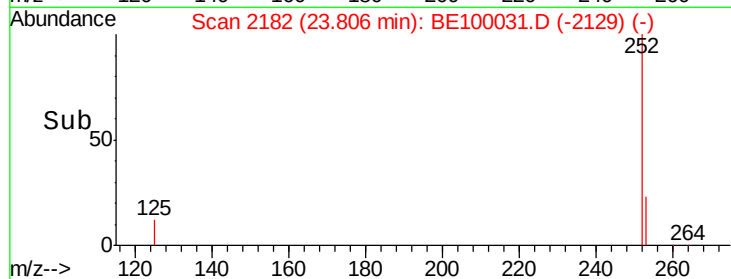
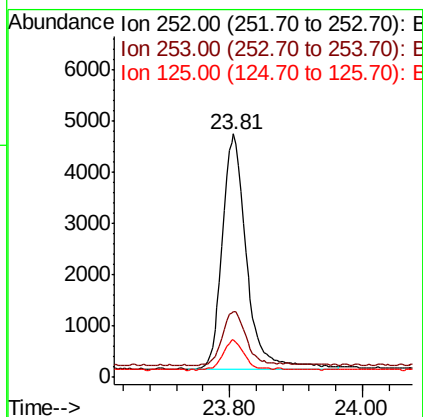
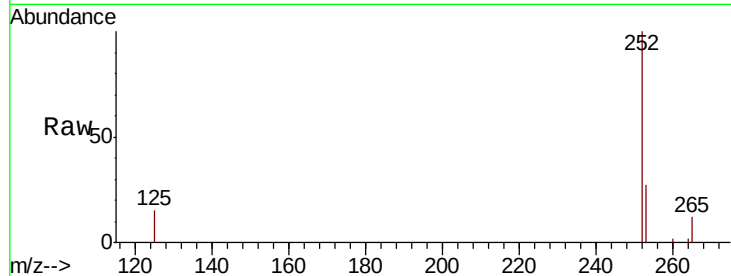




#37  
Benzo(a)pyrene  
Concen: 0.372 ng  
RT: 23.81 min Scan# 2182  
Delta R.T. -0.01 min  
Lab File: BE100031.D  
Acq: 14 Jun 2019 19:56

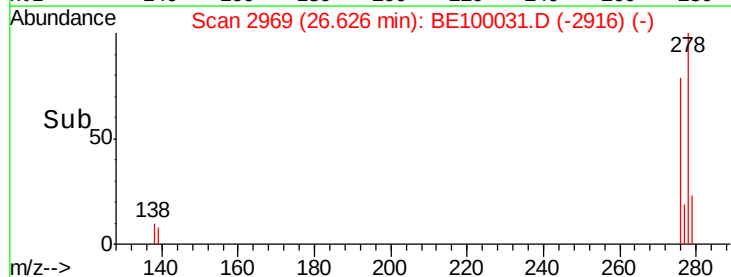
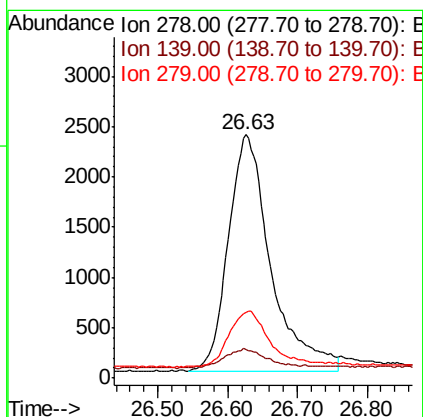
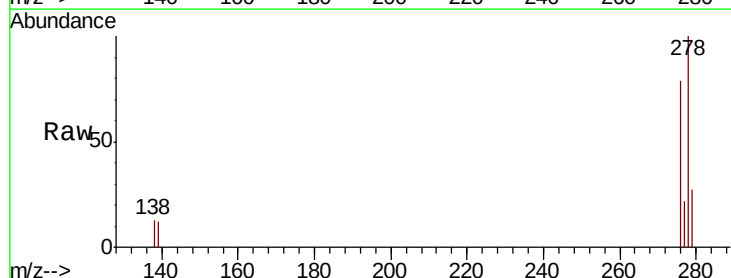
Instrument :  
BNA\_E  
ClientSampleId :  
GW-02MSD

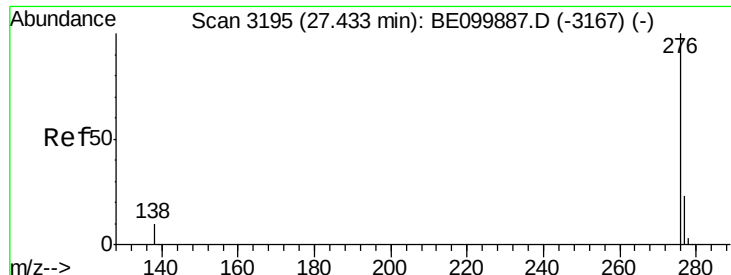
Tgt Ion: 252 Resp: 11682  
Ion Ratio Lower Upper  
252 100  
253 27.2 19.6 29.4  
125 15.5 6.6 10.0#



#38  
Dibenzo(a,h)anthracene  
Concen: 0.313 ng  
RT: 26.63 min Scan# 2969  
Delta R.T. -0.01 min  
Lab File: BE100031.D  
Acq: 14 Jun 2019 19:56

Tgt Ion: 278 Resp: 9904  
Ion Ratio Lower Upper  
278 100  
139 11.9 7.8 11.8#  
279 26.8 20.0 30.0





#39

Benzo(g,h,i)perylene

Concen: 0.342 ng

RT: 27.42 min Scan# 3192

Delta R.T. -0.01 min

Lab File: BE100031.D

Acq: 14 Jun 2019 19:56

Instrument :

BNA\_E

ClientSampleId :

GW-02MSD

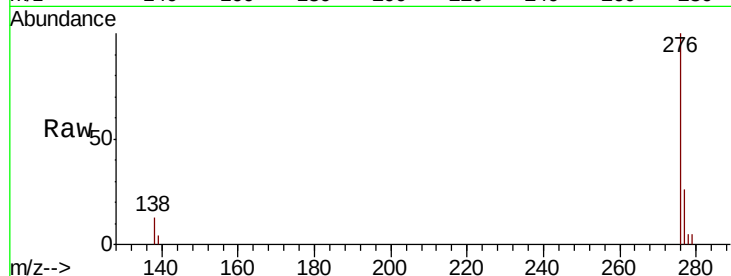
Tgt Ion: 276 Resp: 11197

Ion Ratio Lower Upper

276 100

277 26.2 19.5 29.3

138 13.0 9.5 14.3



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

