

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE121418\  
 Data File : BE098437.D  
 Acq On : 14 Dec 2018 15:56  
 Operator : SJ/JU  
 Sample : PB115586BSD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115586BSD

Quant Time: Dec 14 23:31:42 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 973      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.65 | 136  | 4007     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.53 | 164  | 2366     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 6228     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.46 | 240  | 8235     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.00 | 264  | 7708     | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.46  | 112  | 591      | 0.26 | ng    | 0.01     |
| 5) Phenol-d6                | 7.06  | 99   | 755      | 0.23 | ng    | 0.01     |
| 8) Nitrobenzene-d5          | 9.03  | 82   | 760      | 0.21 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152  | 1631     | 0.25 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330  | 165      | 0.19 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.15 | 172  | 2311     | 0.23 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.30 | 212  | 19905    | 0.25 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.90 | 244  | 3625     | 0.18 | ng    | 0.00     |

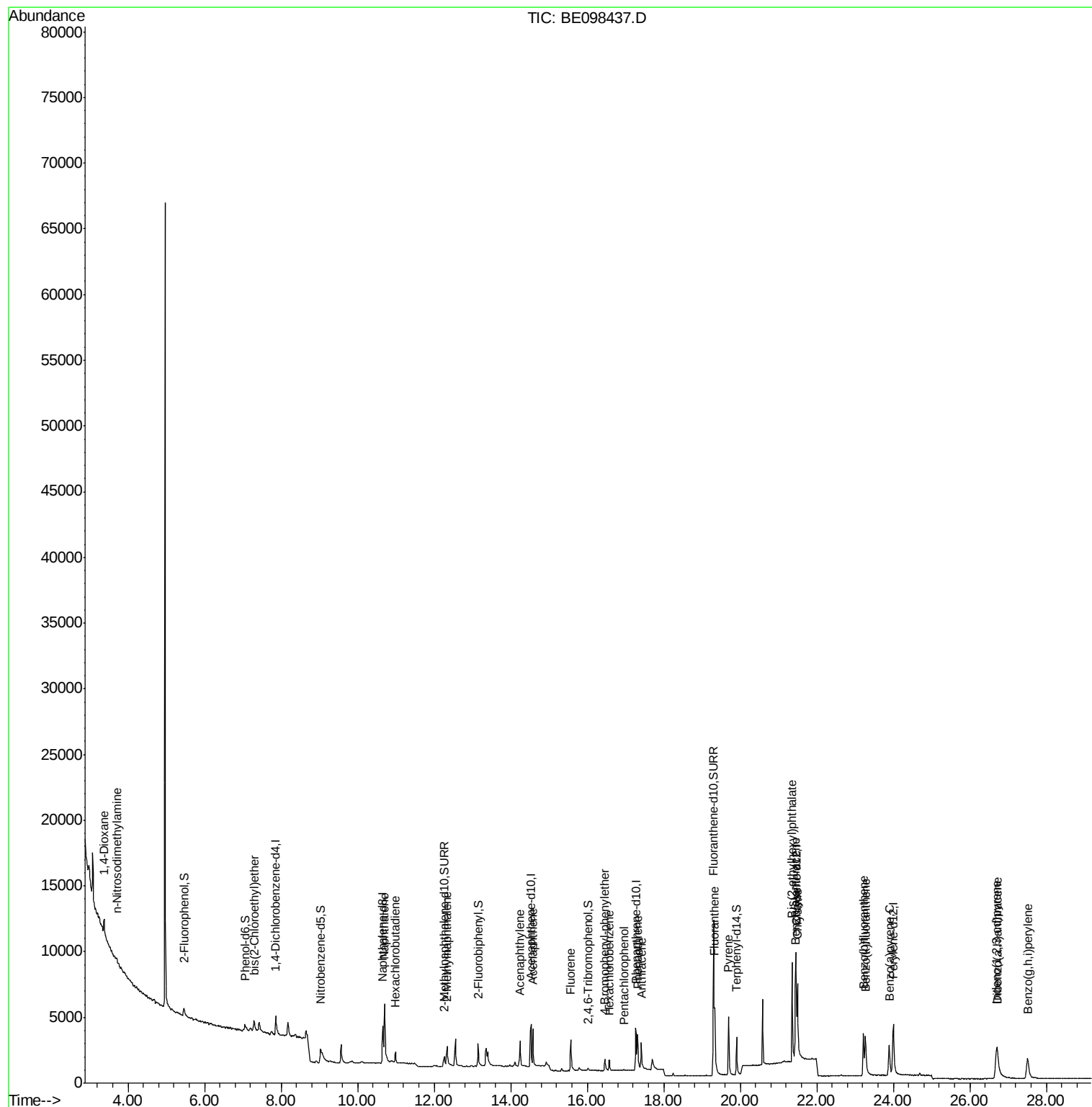
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.37  | 88   | 578      | 0.343 | ng    | # 42   |
| 3) n-Nitrosodimethylamine      | 3.71  | 42   | 306      | 0.202 | ng    | # 100  |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93   | 585      | 0.191 | ng    | 96     |
| 9) Naphthalene                 | 10.71 | 128  | 9603     | 0.238 | ng    | # 97   |
| 10) Hexachlorobutadiene        | 10.99 | 225  | 589      | 0.229 | ng    | 97     |
| 12) 2-Methylnaphthalene        | 12.34 | 142  | 1457     | 0.222 | ng    | 96     |
| 16) Acenaphthylene             | 14.24 | 152  | 2562     | 0.231 | ng    | 100    |
| 17) Acenaphthene               | 14.59 | 154  | 1408     | 0.211 | ng    | 95     |
| 18) Fluorene                   | 15.57 | 166  | 2003     | 0.225 | ng    | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.46 | 248  | 610      | 0.182 | ng    | 95     |
| 21) Hexachlorobenzene          | 16.58 | 284  | 761      | 0.211 | ng    | 96     |
| 22) Pentachlorophenol          | 16.95 | 266  | 91       | 0.177 | ng    | # 87   |
| 23) Phenanthrene               | 17.31 | 178  | 3387     | 0.224 | ng    | 99     |
| 24) Anthracene                 | 17.41 | 178  | 2715     | 0.201 | ng    | 98     |
| 26) Fluoranthene               | 19.33 | 202  | 4937     | 0.247 | ng    | 99     |
| 28) Pyrene                     | 19.69 | 202  | 5005     | 0.194 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.44 | 228  | 5406     | 0.231 | ng    | 99     |
| 31) Chrysene                   | 21.50 | 228  | 5608     | 0.228 | ng    | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149  | 9098     | 0.191 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 26.69 | 276  | 5549     | 0.227 | ng    | # 83   |
| 35) Benzo(b)fluoranthene       | 23.22 | 252  | 4926     | 0.234 | ng    | 97     |
| 36) Benzo(k)fluoranthene       | 23.27 | 252  | 6248     | 0.254 | ng    | 97     |
| 37) Benzo(a)pyrene             | 23.89 | 252  | 5346     | 0.246 | ng    | 95     |
| 38) Dibenzo(a,h)anthracene     | 26.72 | 278  | 4135     | 0.202 | ng    | 95     |
| 39) Benzo(g,h,i)perylene       | 27.51 | 276  | 4911     | 0.238 | ng    | 98     |

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

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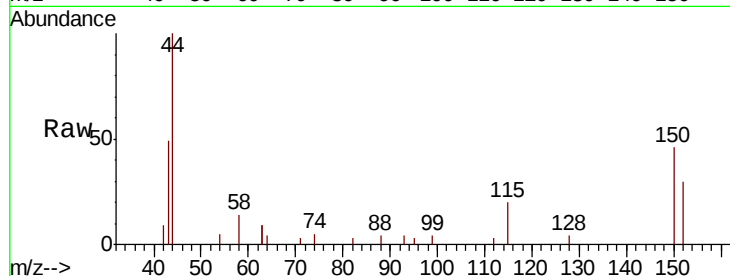


#1

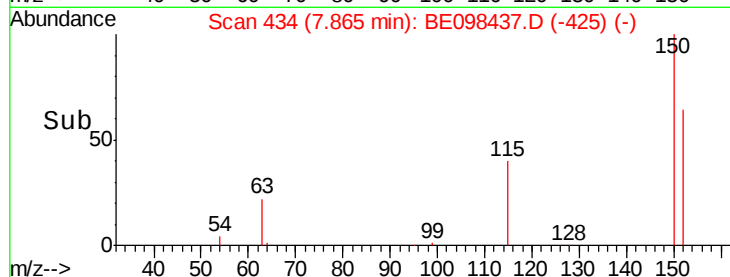
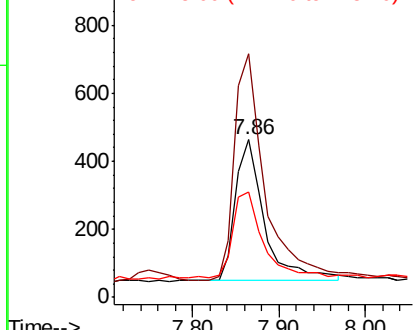
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: BE098437.D  
Acq: 14 Dec 2018 15:56

Instrument :  
BNA\_G  
ClientSampleId :  
PB115586BSD

Tgt Ion:152 Resp: 973  
Ion Ratio Lower Upper  
152 100  
150 154.3 124.2 186.4  
115 66.8 53.9 80.9



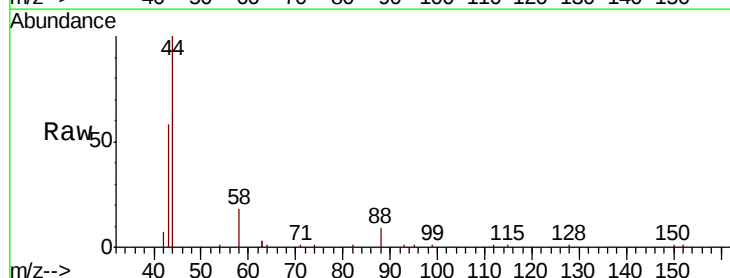
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



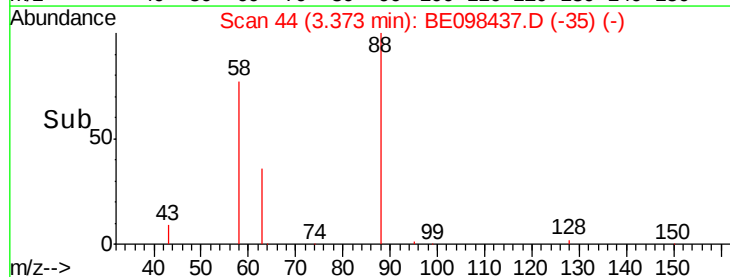
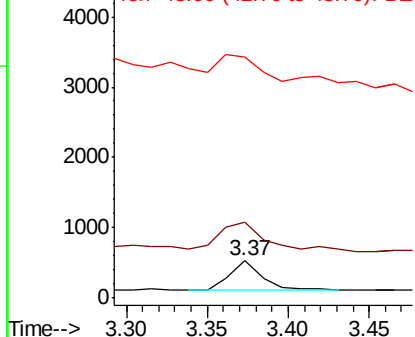
#2

1,4-Dioxane  
Concen: 0.343 ng  
RT: 3.37 min Scan# 44  
Delta R.T. 0.00 min  
Lab File: BE098437.D  
Acq: 14 Dec 2018 15:56

Tgt Ion: 88 Resp: 578  
Ion Ratio Lower Upper  
88 100  
58 119.7 75.0 112.6#  
43 127.3 38.3 57.5#



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: 0.202 ng

RT: 3.71 min Scan# 73

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

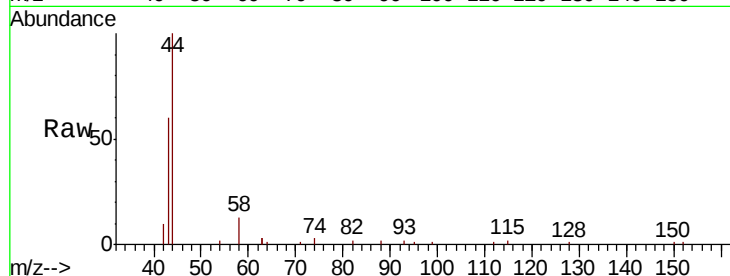
Tgt Ion: 42 Resp: 306

Ion Ratio Lower Upper

42 100

74 77.8 0.0 0.0#

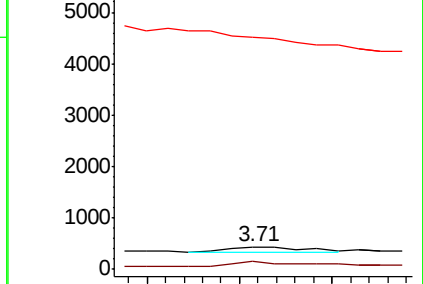
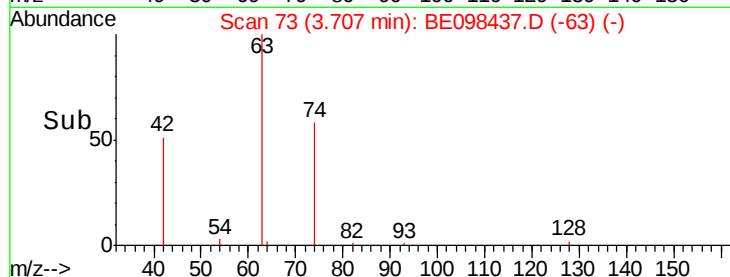
44 0.0 0.0 0.0



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: 0.260 ng

RT: 5.46 min Scan# 225

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

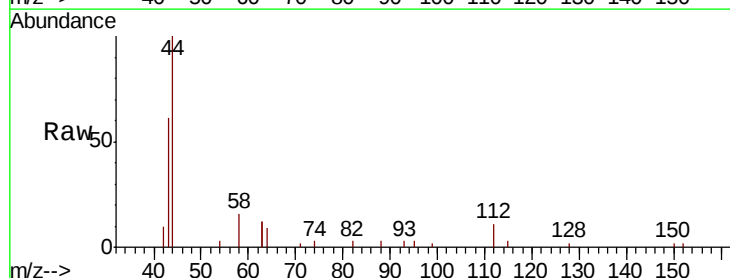
Tgt Ion: 112 Resp: 591

Ion Ratio Lower Upper

112 100

64 79.5 59.8 89.8

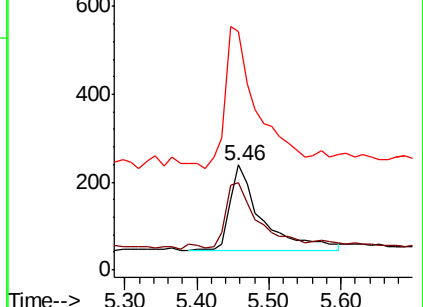
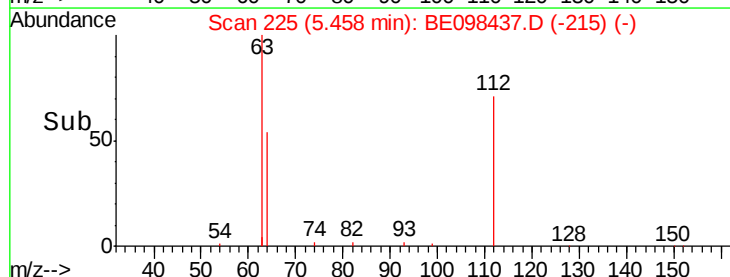
63 172.8 133.7 200.5



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: 0.234 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

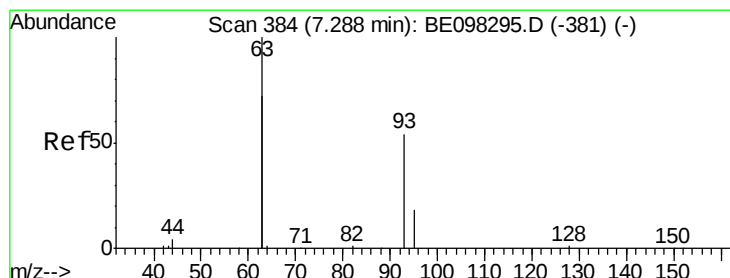
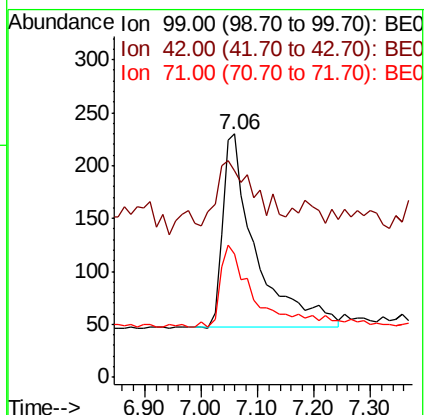
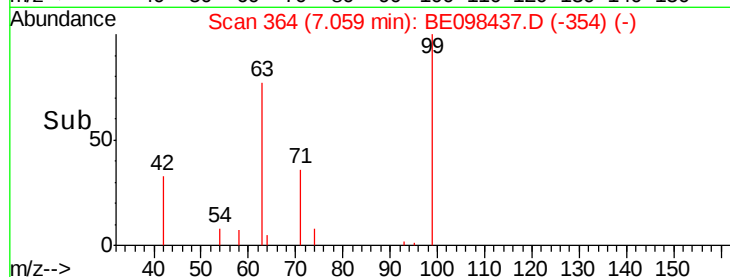
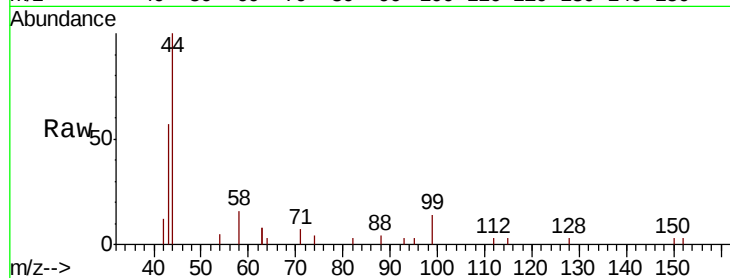
Tgt Ion: 99 Resp: 755

Ion Ratio Lower Upper

99 100

42 38.0 26.3 39.5

71 45.2 33.6 50.4



#6

bis(2-Chloroethyl)ether

Concen: 0.191 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

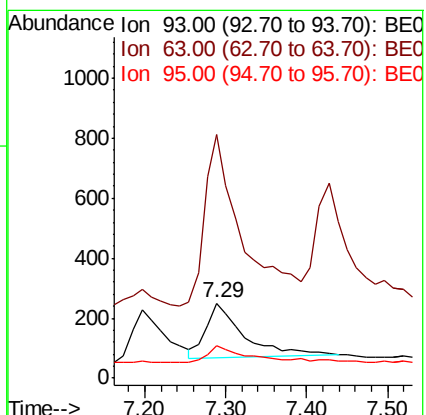
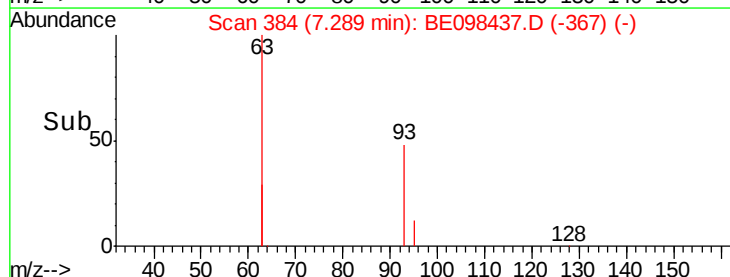
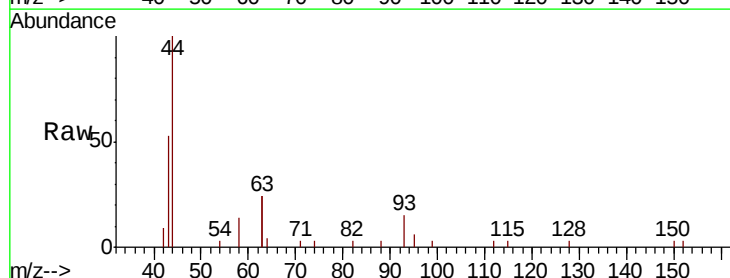
Tgt Ion: 93 Resp: 585

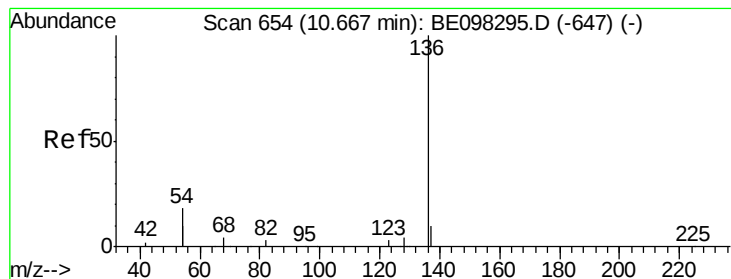
Ion Ratio Lower Upper

93 100

63 321.0 264.4 396.6

95 33.5 26.6 40.0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

Tgt Ion: 136 Resp: 4007

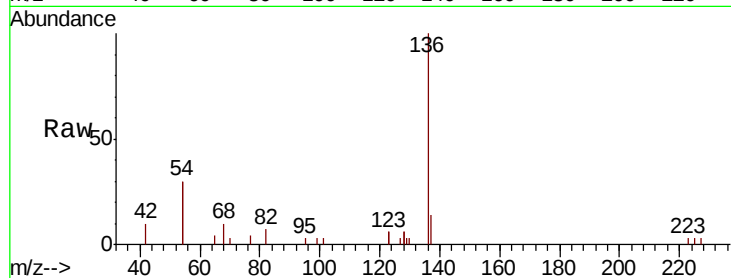
Ion Ratio Lower Upper

136 100

137 13.7 9.2 13.8

54 59.9 28.4 42.6#

68 9.5 5.4 8.0#

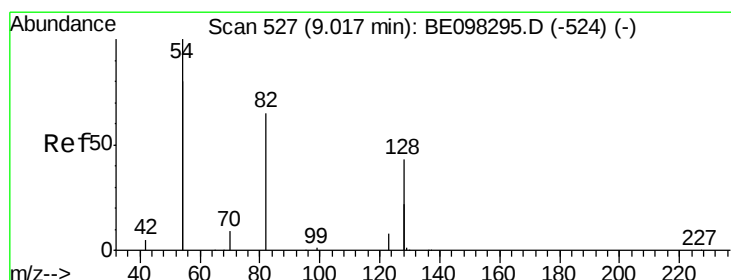
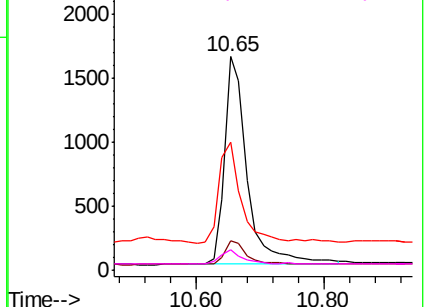
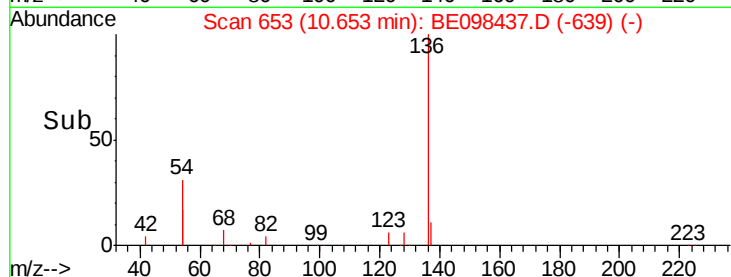


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 0.208 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

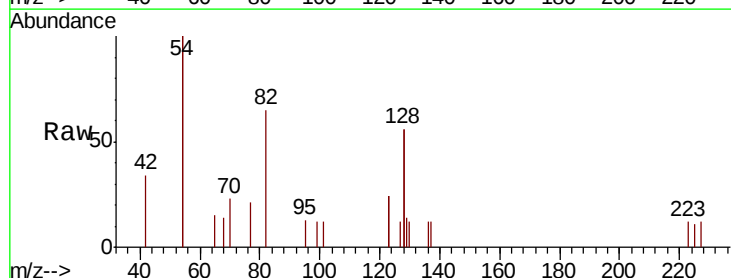
Tgt Ion: 82 Resp: 760

Ion Ratio Lower Upper

82 100

128 174.1 102.4 153.6#

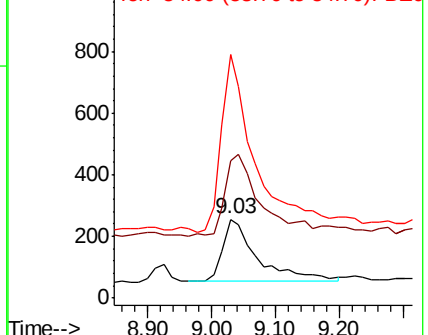
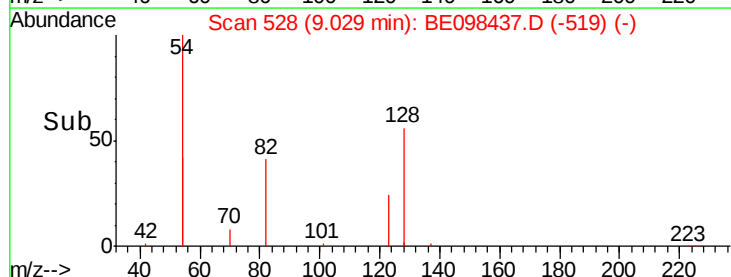
54 309.8 221.8 332.8

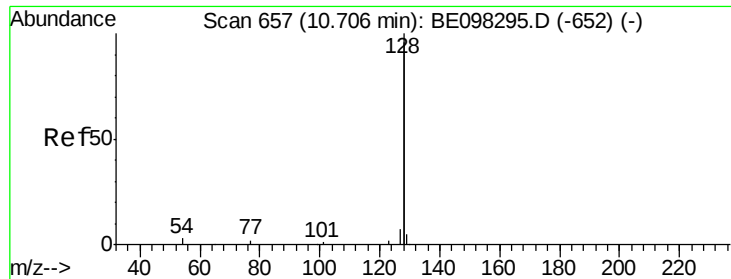


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.238 ng

RT: 10.71 min Scan# 657

Delta R.T. -0.00 min

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ClientSampleId :

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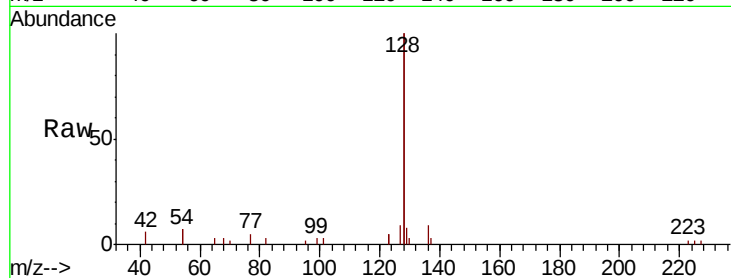
Tgt Ion:128 Resp: 9603

Ion Ratio Lower Upper

128 100

129 3.8 2.5 3.7#

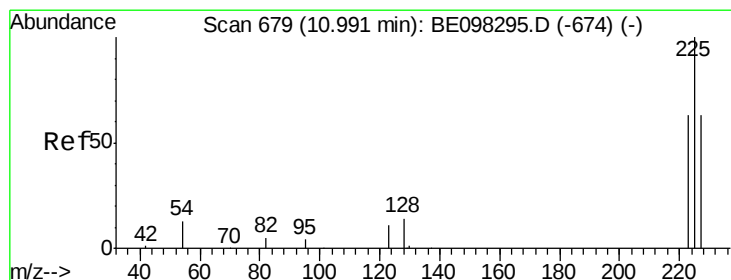
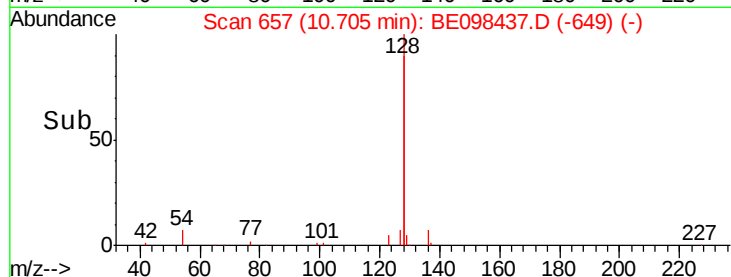
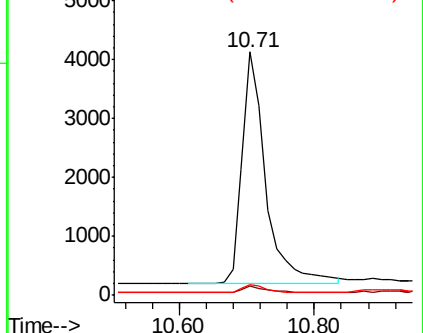
127 4.5 2.7 4.1#



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: 0.229 ng

RT: 10.99 min Scan# 679

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

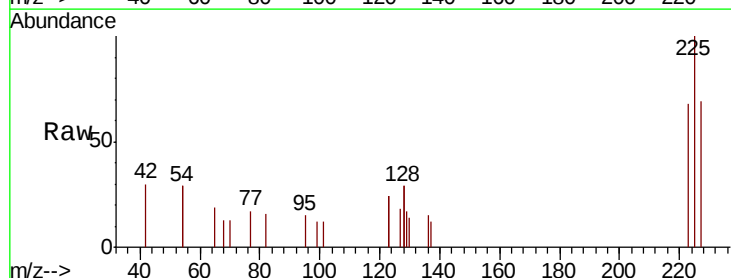
Tgt Ion:225 Resp: 589

Ion Ratio Lower Upper

225 100

223 65.0 49.4 74.0

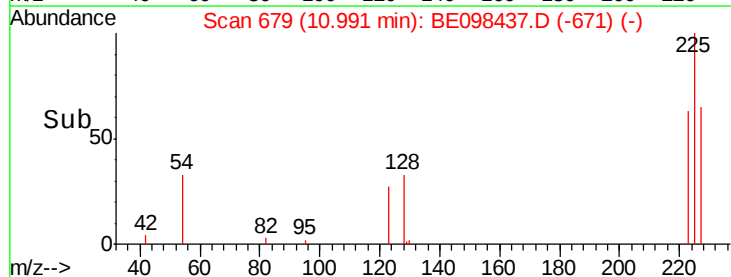
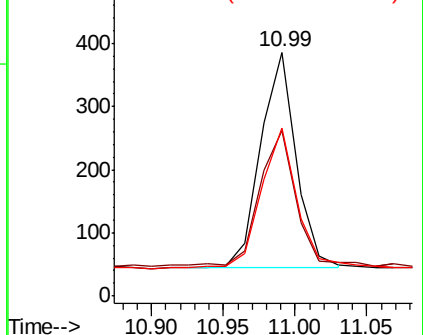
227 66.4 52.0 78.0

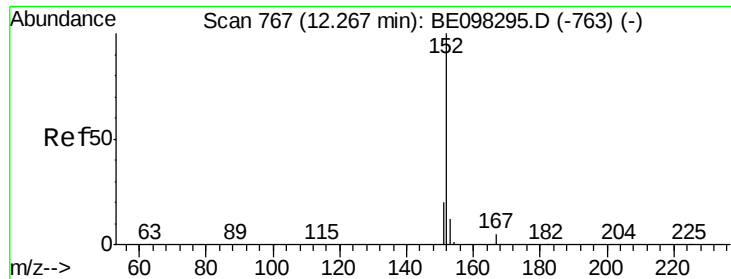


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

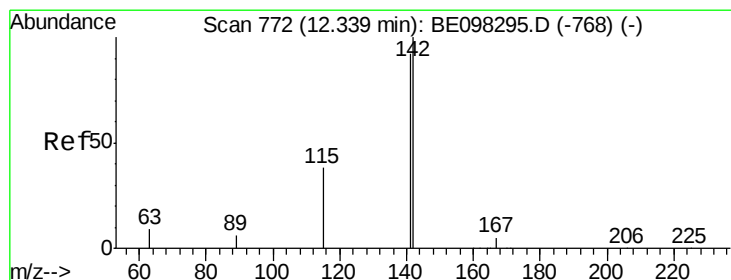
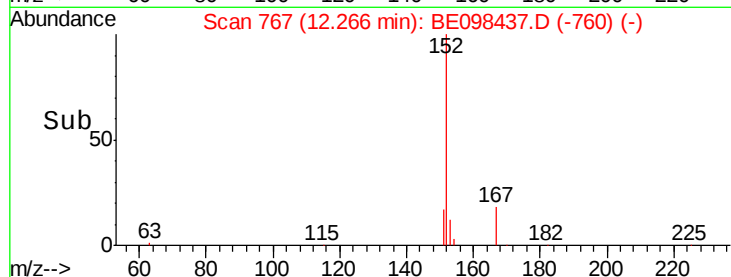
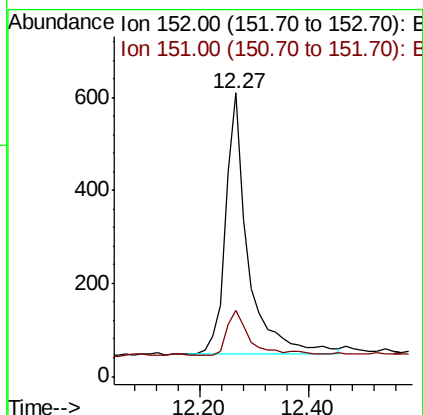
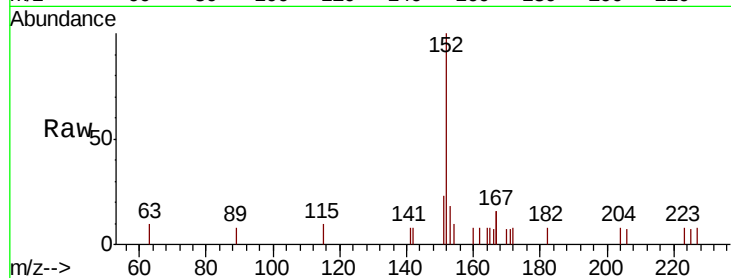




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.250 ng  
 RT: 12.27 min Scan# 767  
 Delta R.T. -0.00 min  
 Lab File: BE098437.D  
 Acq: 14 Dec 2018 15:56

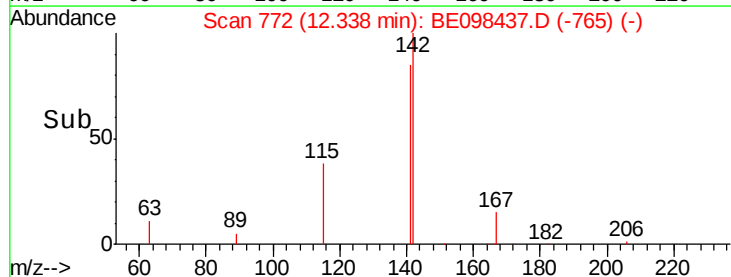
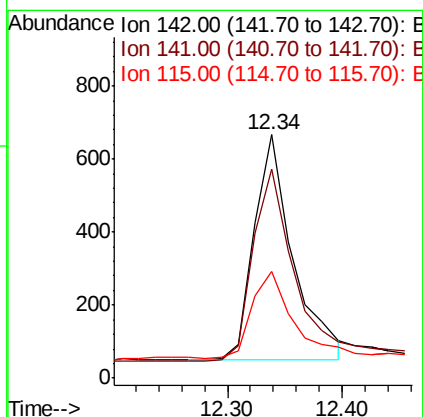
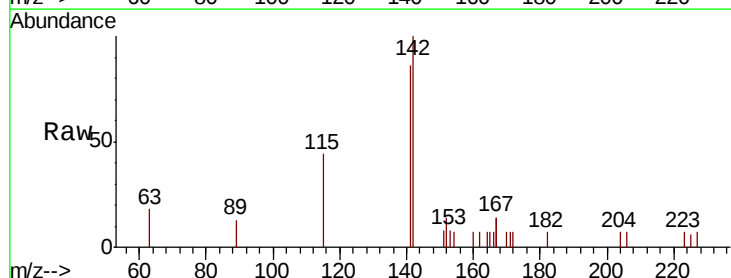
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115586BSD

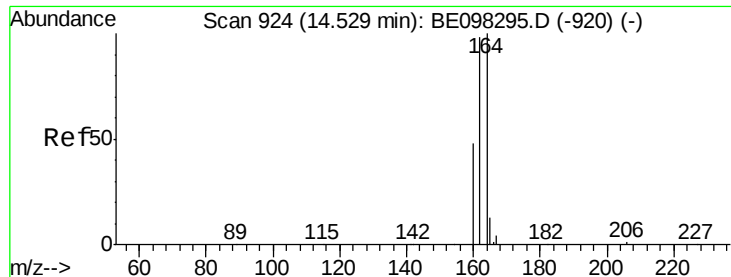
Tgt Ion:152 Resp: 1631  
 Ion Ratio Lower Upper  
 152 100  
 151 17.3 16.2 24.4



#12  
 2-Methylnaphthalene  
 Concen: 0.222 ng  
 RT: 12.34 min Scan# 772  
 Delta R.T. -0.00 min  
 Lab File: BE098437.D  
 Acq: 14 Dec 2018 15:56

Tgt Ion:142 Resp: 1457  
 Ion Ratio Lower Upper  
 142 100  
 141 86.1 71.0 106.6  
 115 43.6 32.2 48.2

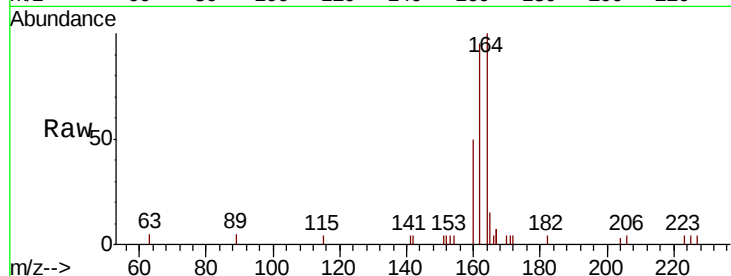




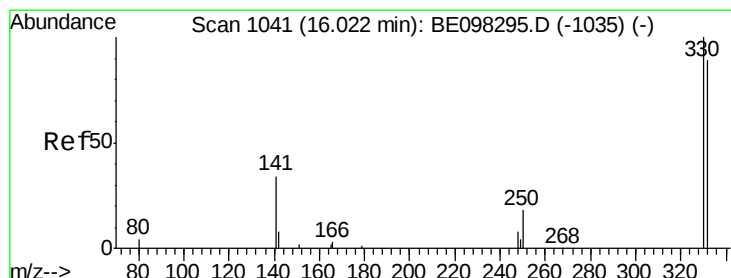
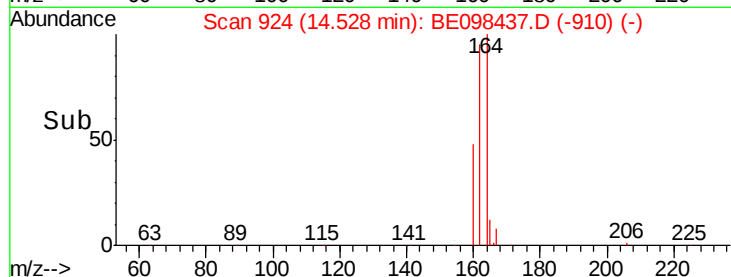
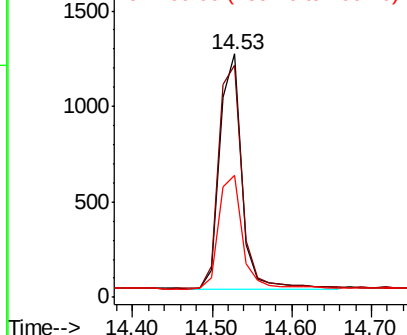
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: BE098437.D  
Acq: 14 Dec 2018 15:56

Instrument :  
BNA\_G  
ClientSampleId :  
PB115586BSD

Tgt Ion:164 Resp: 2366  
Ion Ratio Lower Upper  
164 100  
162 95.5 77.6 116.4  
160 50.1 36.0 54.0

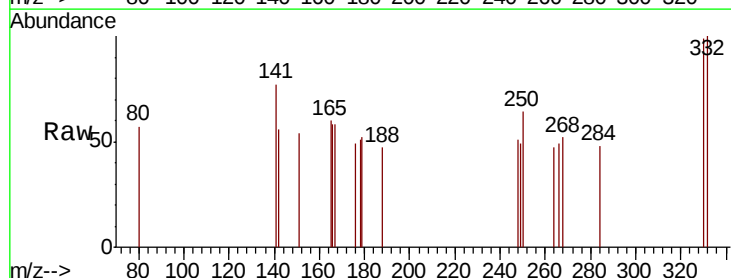


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

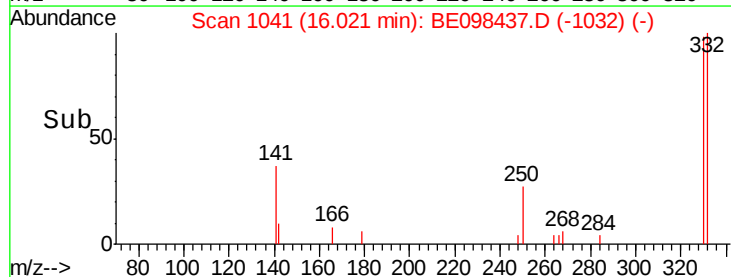
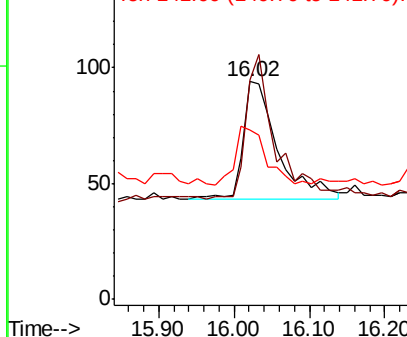


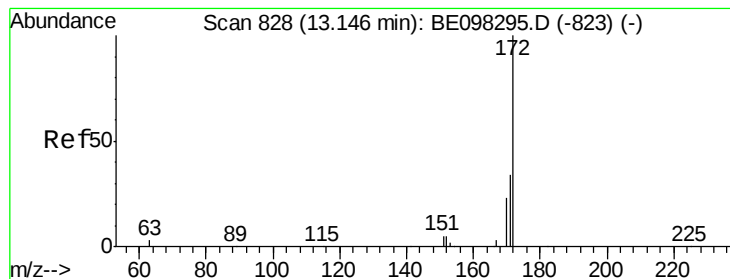
#14  
2,4,6-Tribromophenol  
Concen: 0.190 ng  
RT: 16.02 min Scan# 1041  
Delta R.T. -0.00 min  
Lab File: BE098437.D  
Acq: 14 Dec 2018 15:56

Tgt Ion:330 Resp: 165  
Ion Ratio Lower Upper  
330 100  
332 101.8 76.2 114.4  
141 0.0 39.0 58.4#



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: 0.232 ng

RT: 13.15 min Scan# 828

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

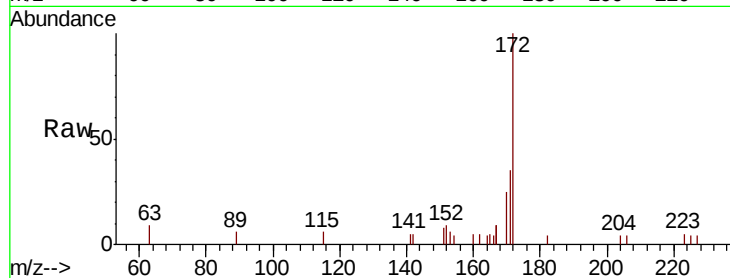
Tgt Ion:172 Resp: 2311

Ion Ratio Lower Upper

172 100

171 35.3 27.5 41.3

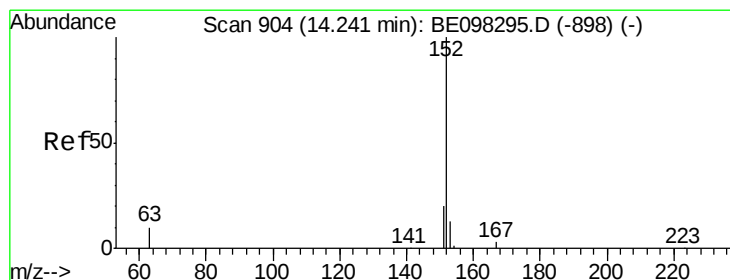
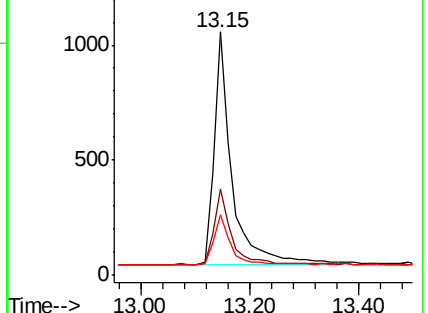
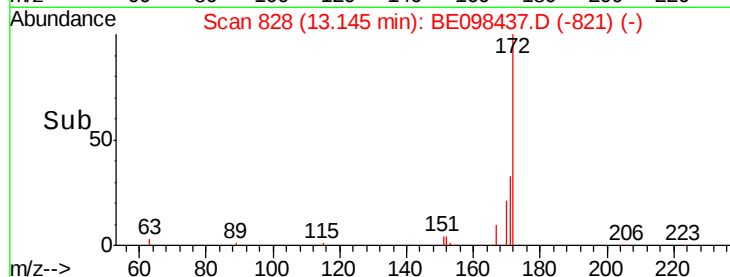
170 24.8 19.6 29.4



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: 0.231 ng

RT: 14.24 min Scan# 904

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

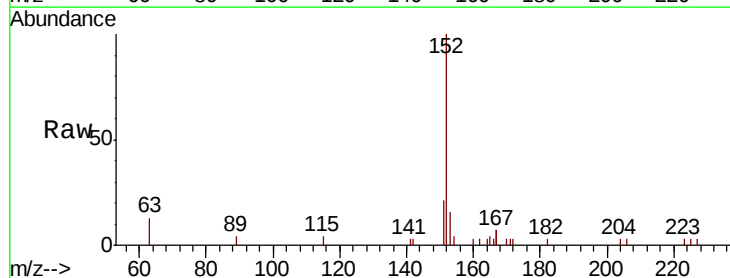
Tgt Ion:152 Resp: 2562

Ion Ratio Lower Upper

152 100

151 19.3 15.5 23.3

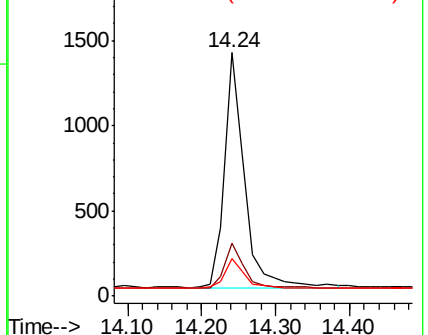
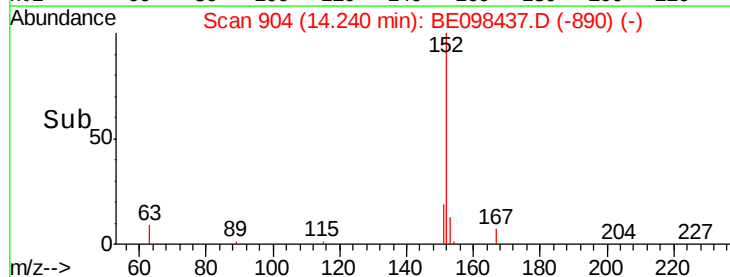
153 13.0 10.6 16.0



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: 0.211 ng

RT: 14.59 min Scan# 928

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

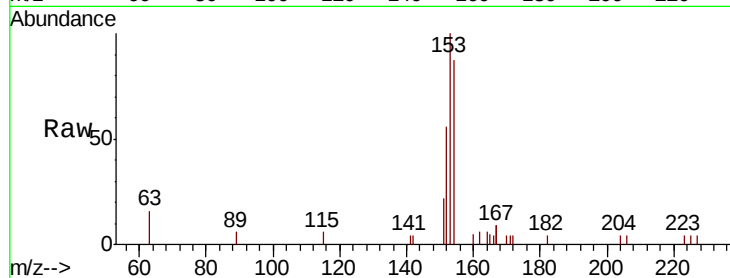
Tgt Ion:154 Resp: 1408

Ion Ratio Lower Upper

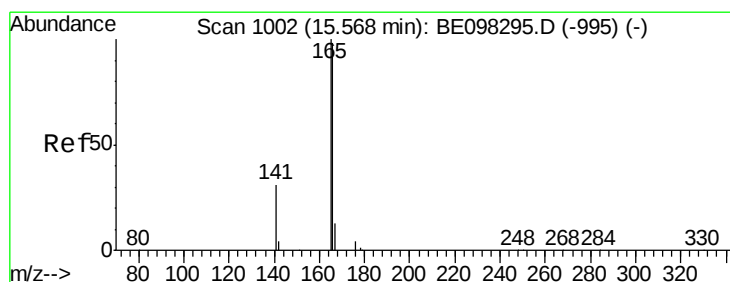
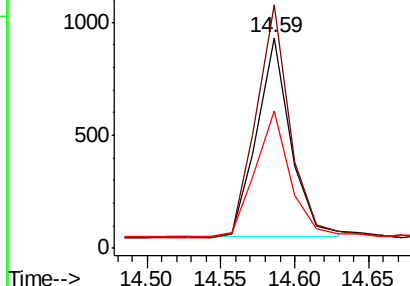
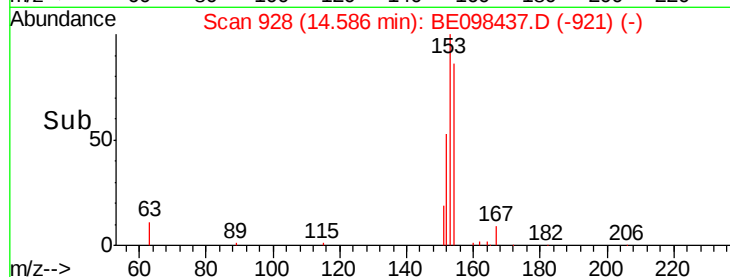
154 100

153 117.5 91.8 137.6

152 65.1 45.5 68.3



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: 0.225 ng

RT: 15.57 min Scan# 1002

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

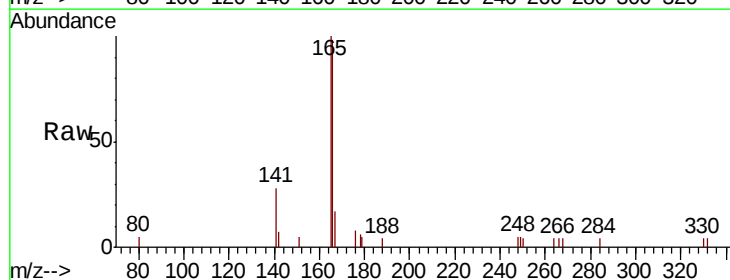
Tgt Ion:166 Resp: 2003

Ion Ratio Lower Upper

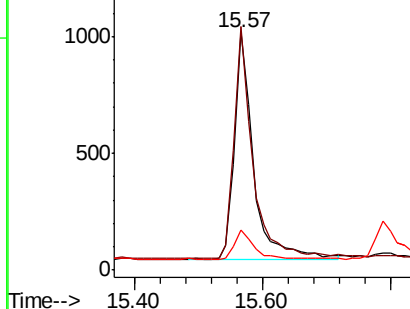
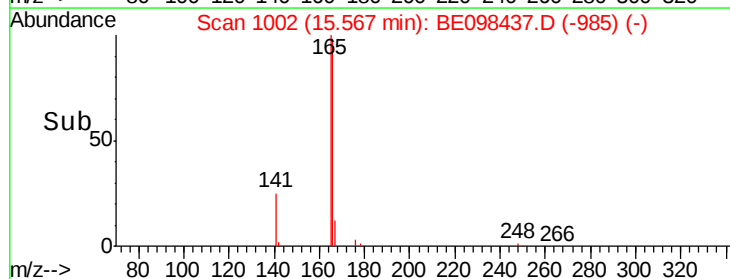
166 100

165 97.1 79.3 118.9

167 13.5 11.3 16.9



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: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

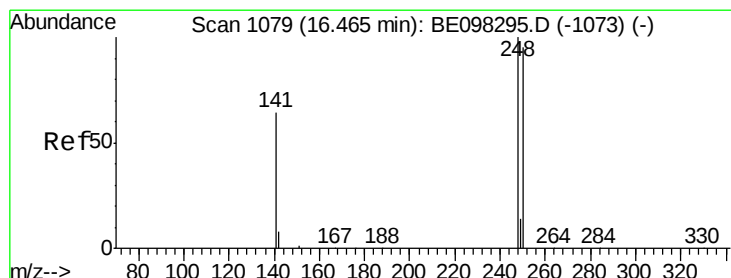
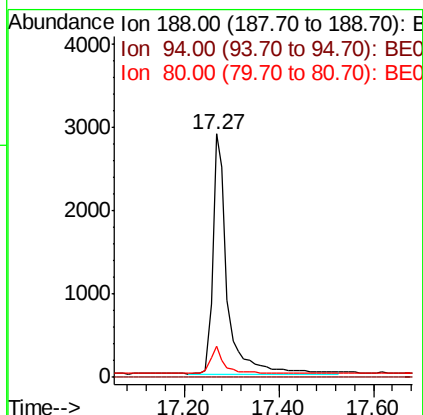
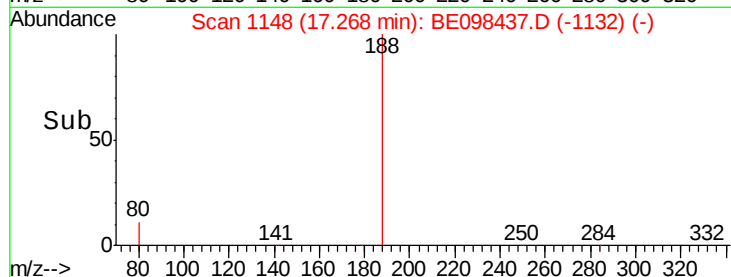
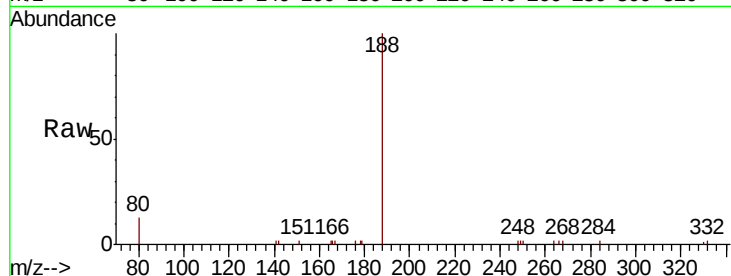
Tgt Ion:188 Resp: 6228

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.7 7.2 10.8#



#20

4-Bromophenyl-phenylether

Concen: 0.182 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

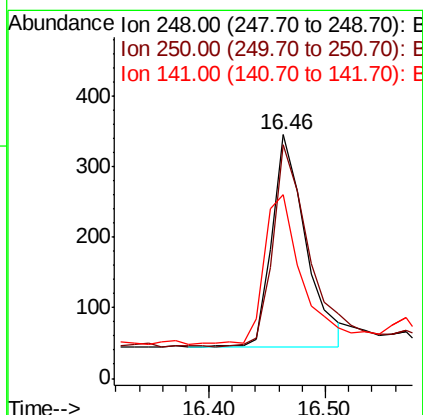
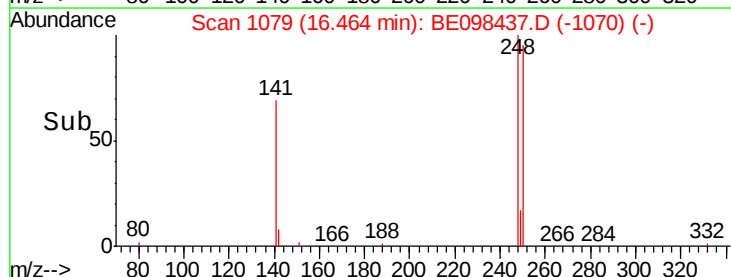
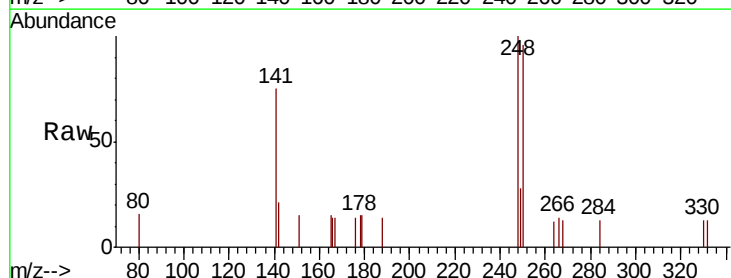
Tgt Ion:248 Resp: 610

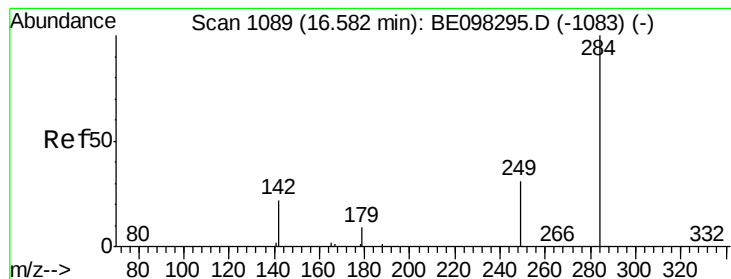
Ion Ratio Lower Upper

248 100

250 95.7 71.0 106.6

141 75.4 62.1 93.1





#21

Hexachlorobenzene

Concen: 0.211 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

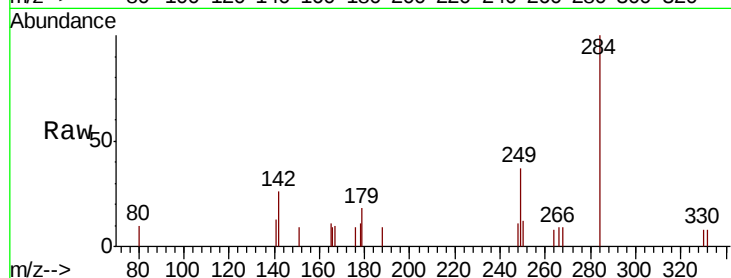
Tgt Ion:284 Resp: 761

Ion Ratio Lower Upper

284 100

142 36.8 26.3 39.5

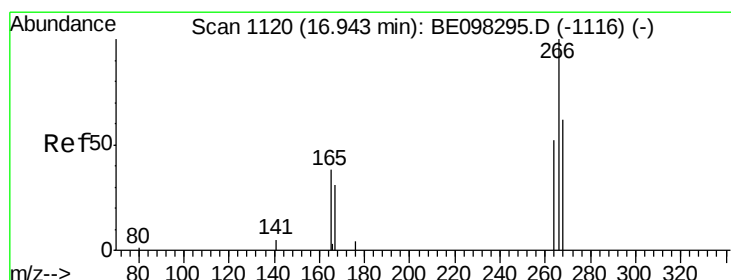
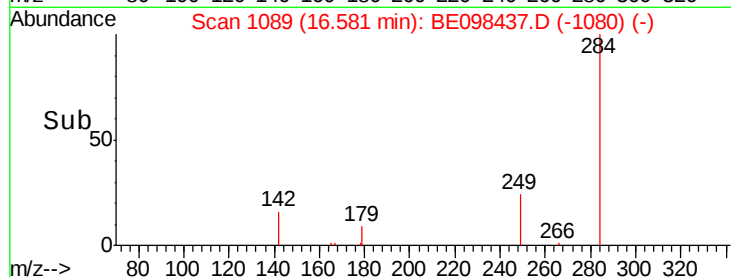
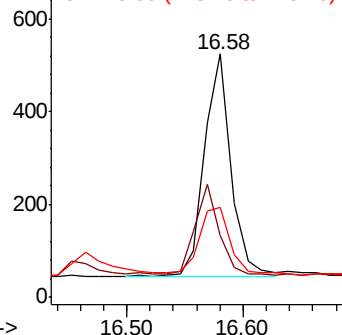
249 32.9 26.0 39.0



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: 0.177 ng

RT: 16.95 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

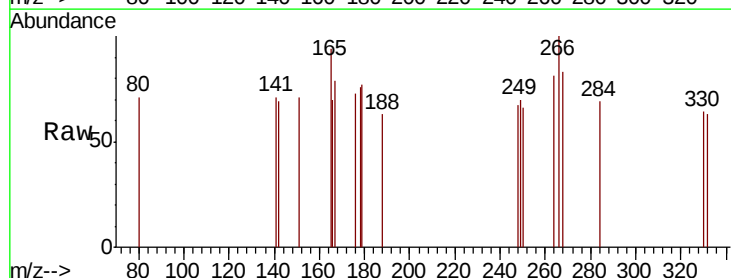
Tgt Ion:266 Resp: 91

Ion Ratio Lower Upper

266 100

264 81.4 59.0 88.4

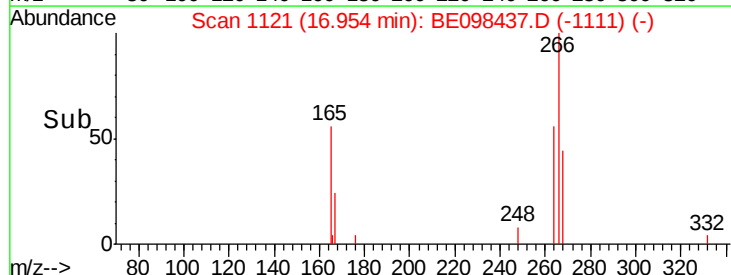
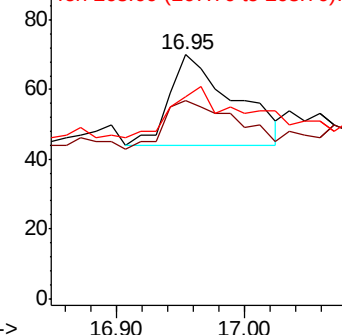
268 82.9 55.1 82.7#



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: 0.224 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

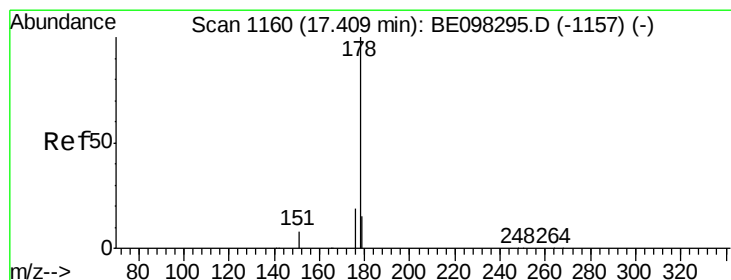
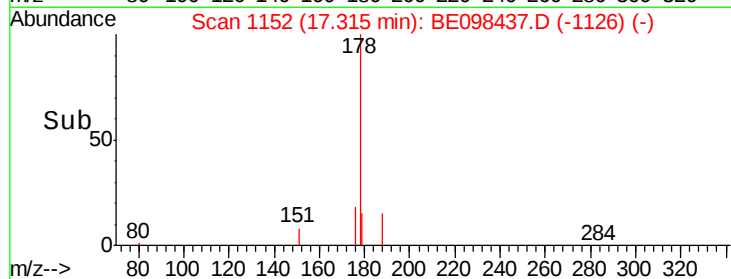
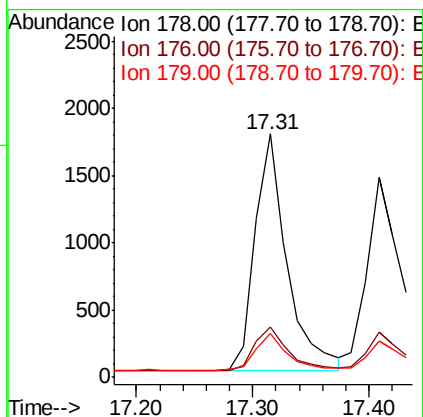
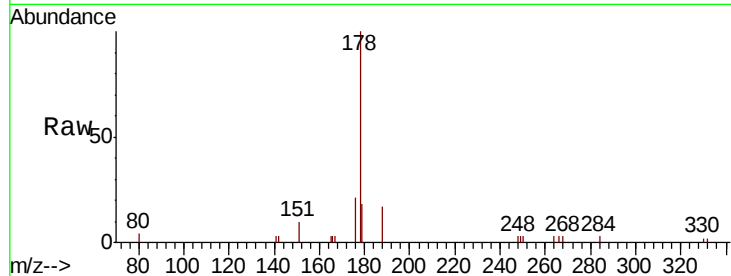
Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 3387  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 19.6  | 15.9  | 23.9  |
| 179      | 15.7  | 12.3  | 18.5  |



#24

Anthracene

Concen: 0.201 ng

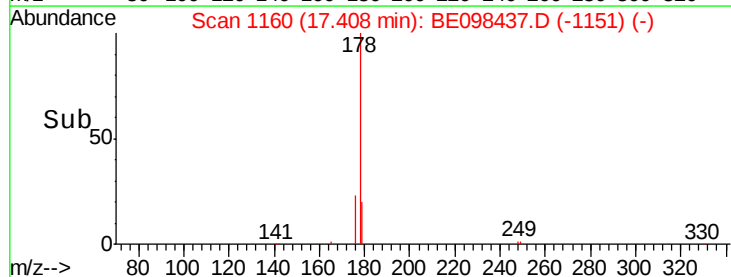
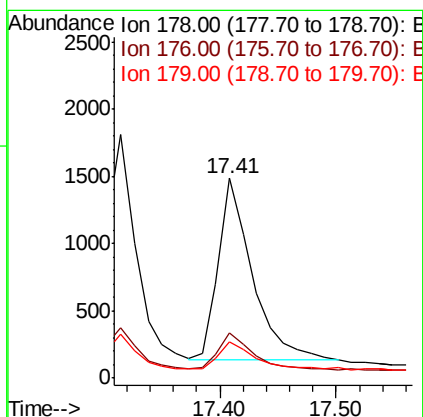
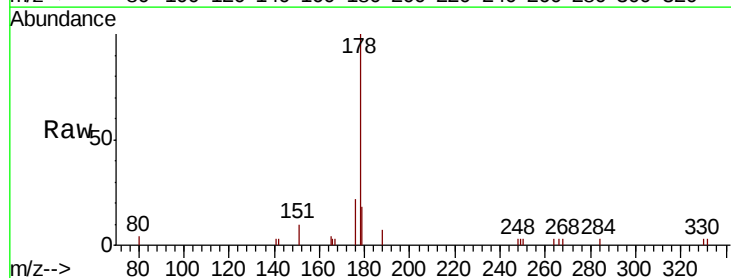
RT: 17.41 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 2715  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 20.3  | 15.0  | 22.4  |
| 179      | 15.4  | 12.3  | 18.5  |





#25

Fluoranthene-d10

Concen: 0.249 ng

RT: 19.30 min Scan# 1432

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

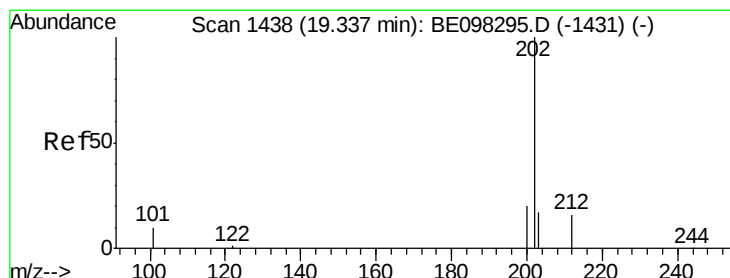
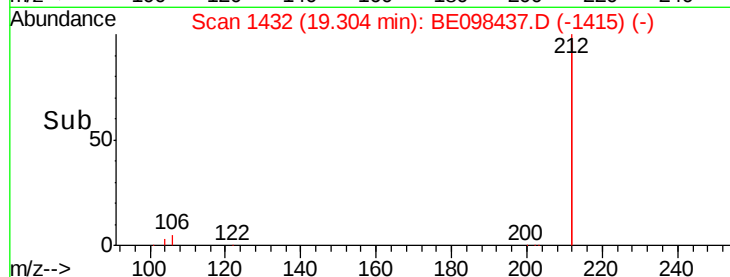
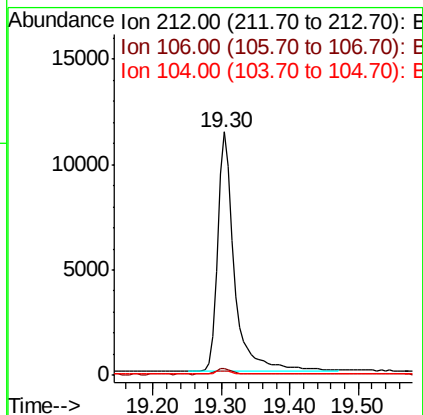
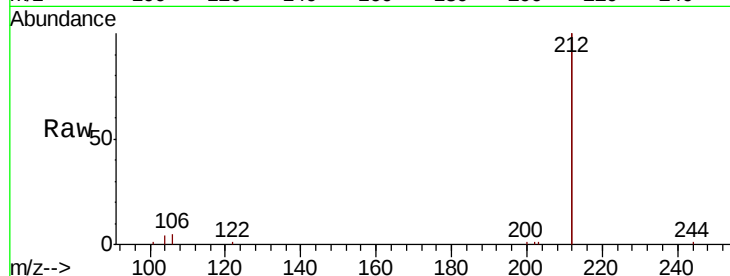
Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 19905 |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 2.5   | 2.2   | 3.2   |
| 104      | 1.4   | 1.3   | 1.9   |



#26

Fluoranthene

Concen: 0.247 ng

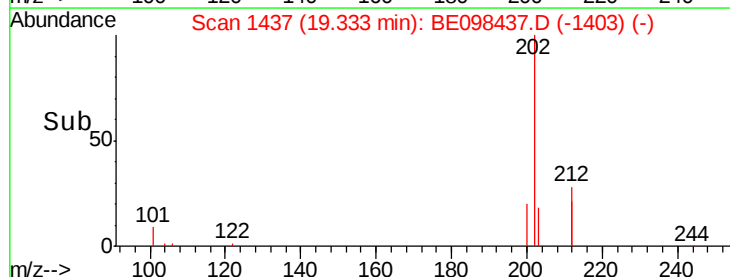
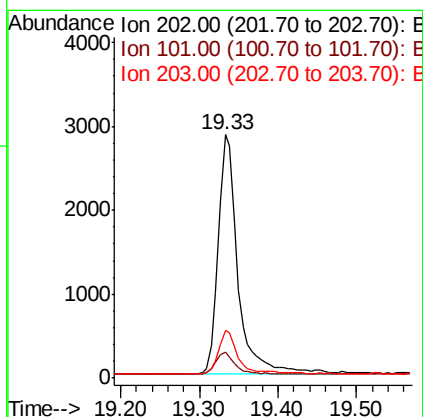
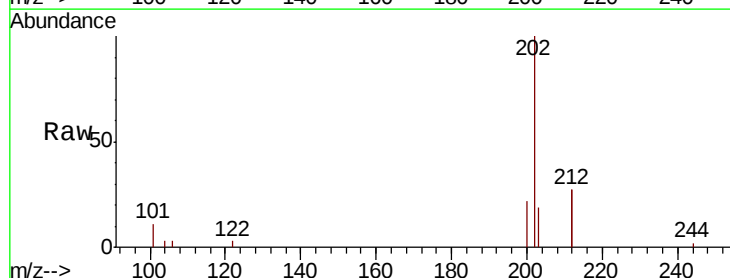
RT: 19.33 min Scan# 1437

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 4937  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 9.3   | 8.0   | 12.0  |
| 203      | 17.3  | 13.8  | 20.6  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

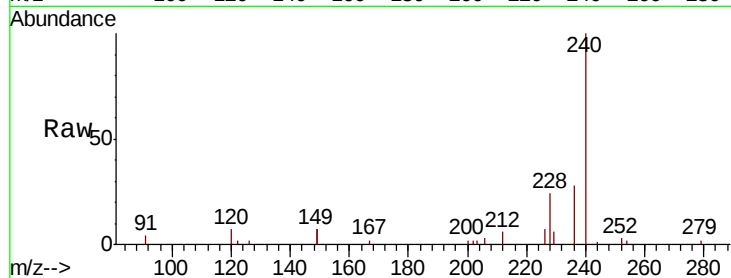
Tgt Ion:240 Resp: 8235

Ion Ratio Lower Upper

240 100

120 7.3 9.5 14.3#

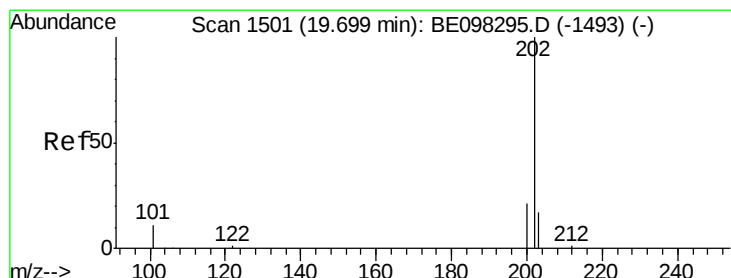
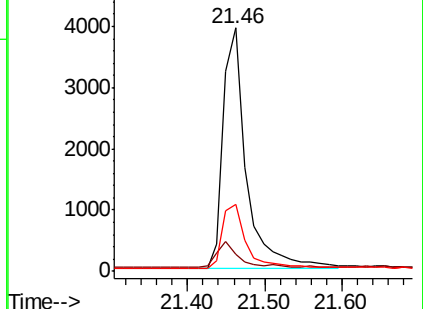
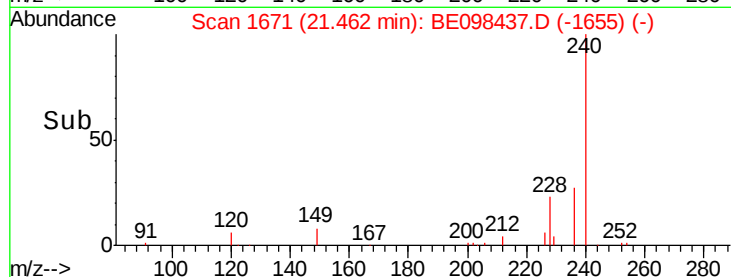
236 27.7 22.7 34.1



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: 0.194 ng

RT: 19.69 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

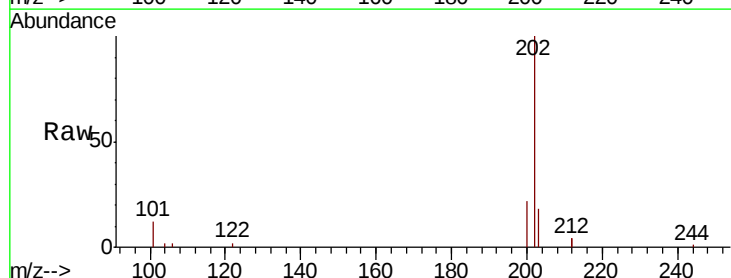
Tgt Ion:202 Resp: 5005

Ion Ratio Lower Upper

202 100

200 21.5 16.7 25.1

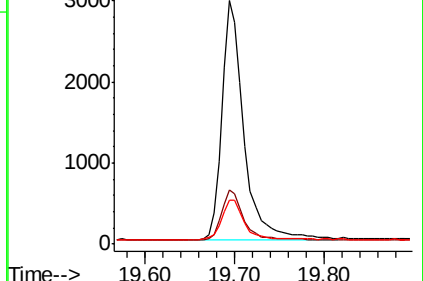
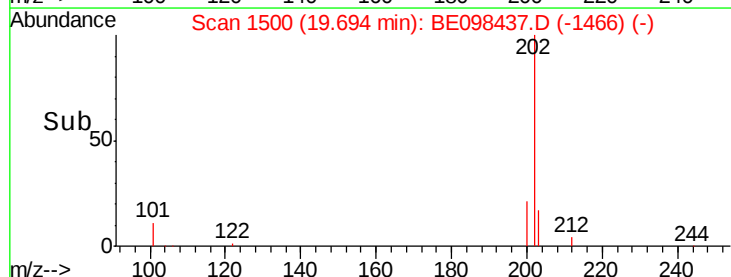
203 17.6 14.1 21.1



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: 0.181 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

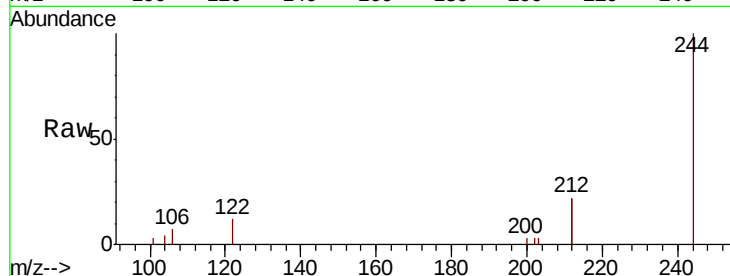
Tgt Ion:244 Resp: 3625

Ion Ratio Lower Upper

244 100

212 43.2 27.4 41.0#

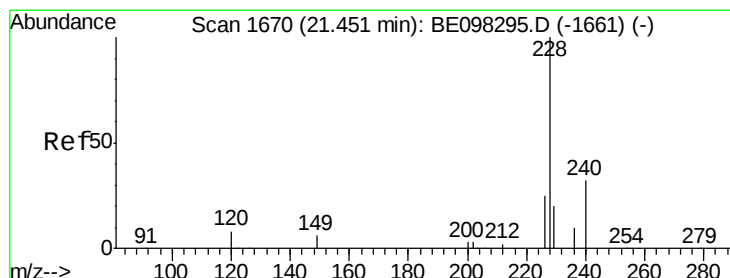
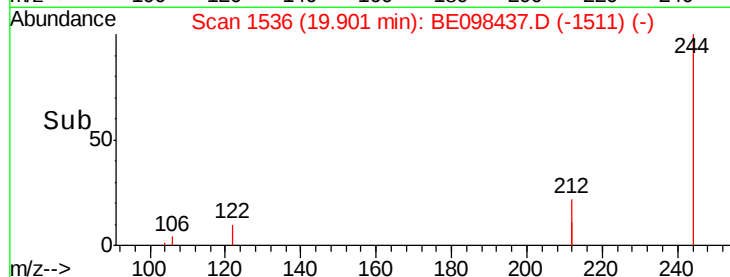
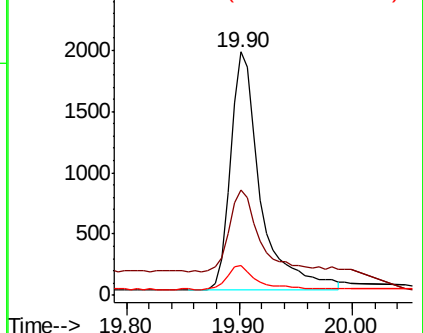
122 12.5 8.3 12.5



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: 0.231 ng

RT: 21.44 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

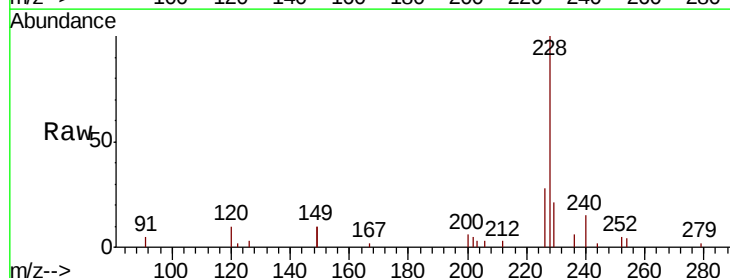
Tgt Ion:228 Resp: 5406

Ion Ratio Lower Upper

228 100

226 27.7 21.8 32.8

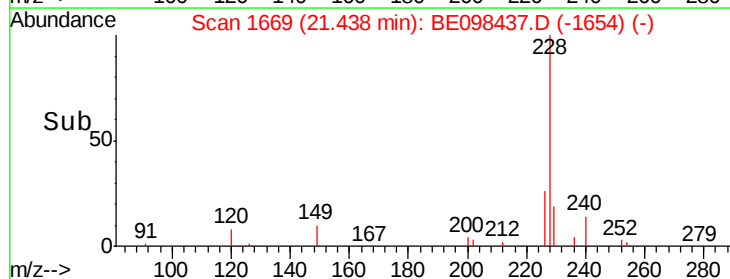
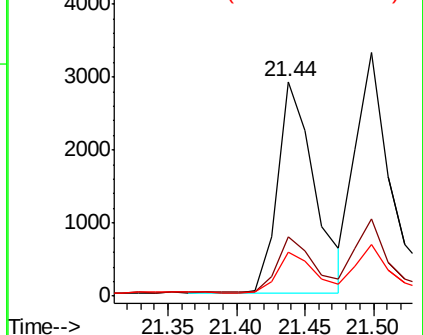
229 20.6 16.3 24.5

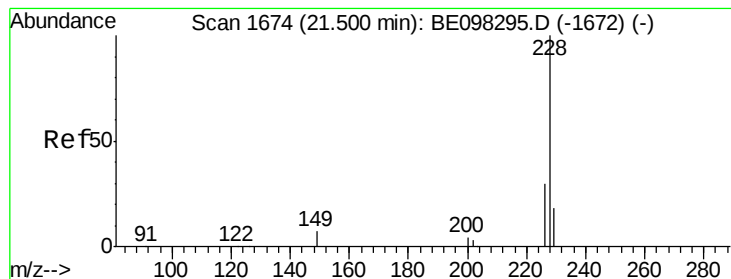


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.228 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

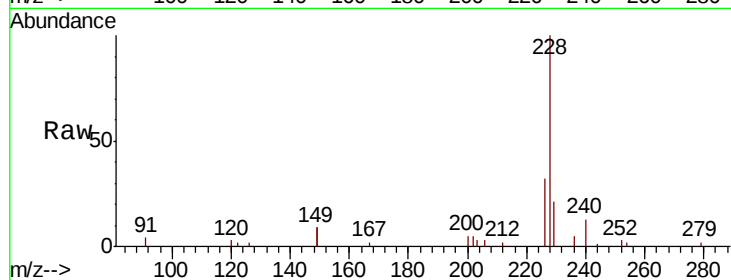
Tgt Ion:228 Resp: 5608

Ion Ratio Lower Upper

228 100

226 31.8 23.4 35.0

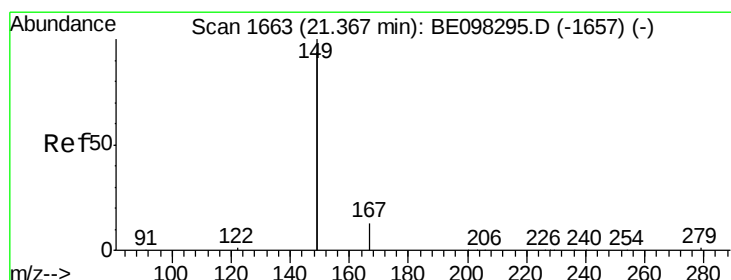
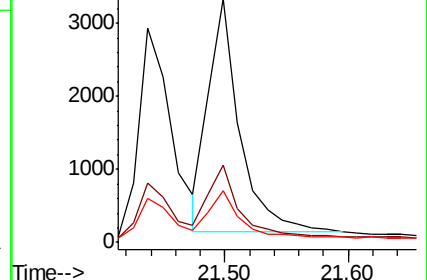
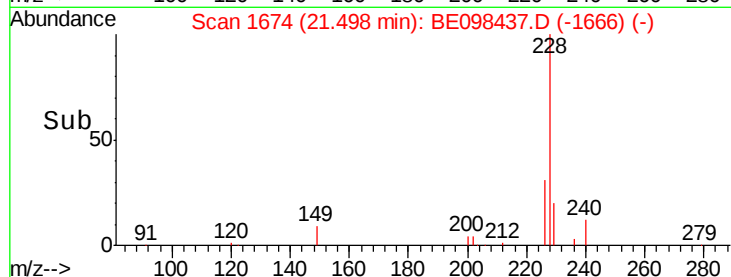
229 21.3 16.2 24.4



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: 0.191 ng

RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

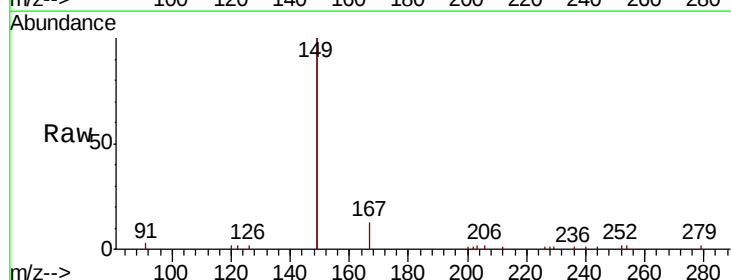
Tgt Ion:149 Resp: 9098

Ion Ratio Lower Upper

149 100

167 6.8 5.7 8.5

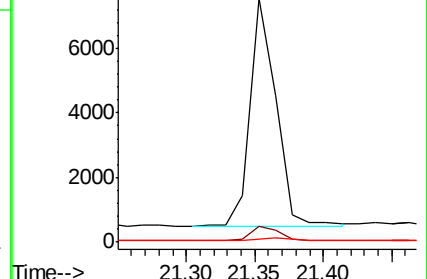
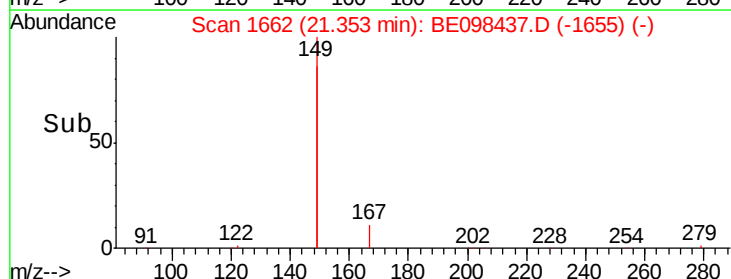
279 1.2 1.0 1.4



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: 0.227 ng

RT: 26.69 min Scan# 3020

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

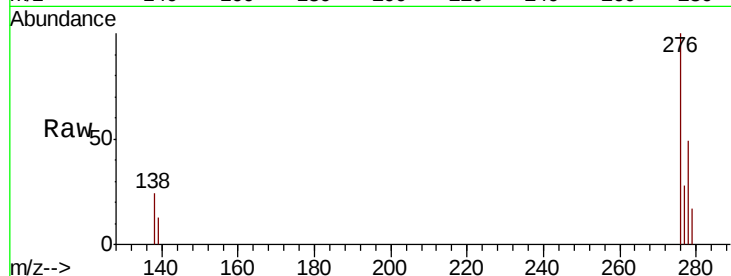
Tgt Ion:276 Resp: 5549

Ion Ratio Lower Upper

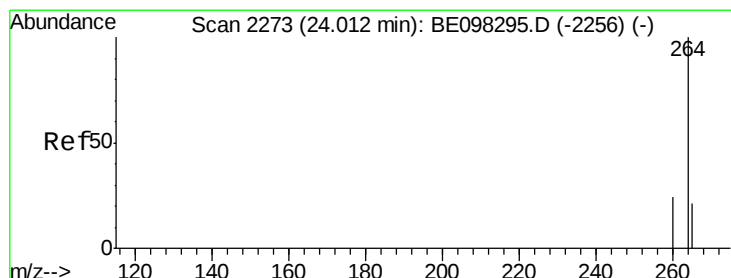
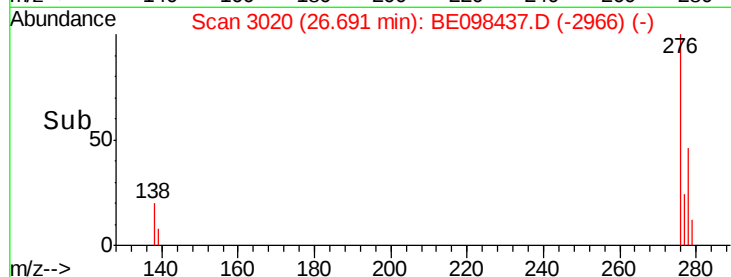
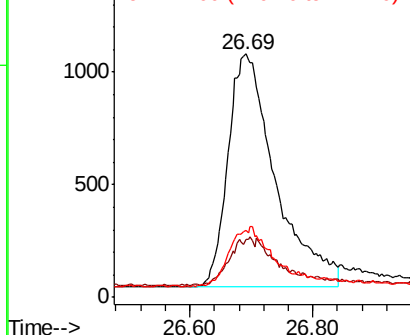
276 100

138 6.7 16.3 24.5#

277 22.1 20.2 30.4



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: 24.00 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

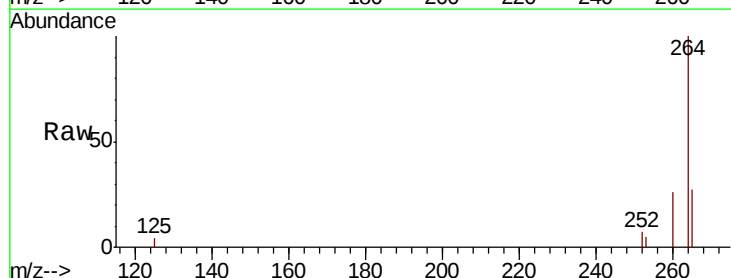
Tgt Ion:264 Resp: 7708

Ion Ratio Lower Upper

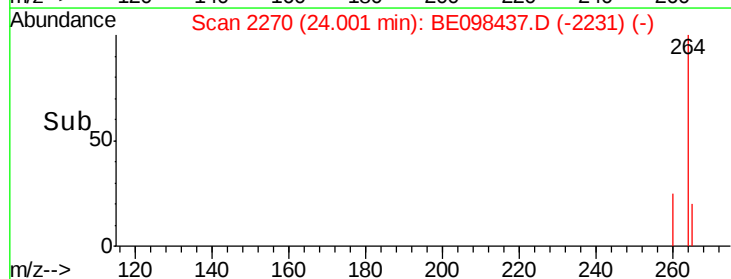
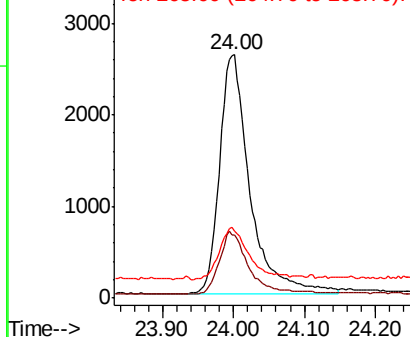
264 100

260 25.9 20.2 30.2

265 27.5 25.2 37.8



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: 0.234 ng

RT: 23.22 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

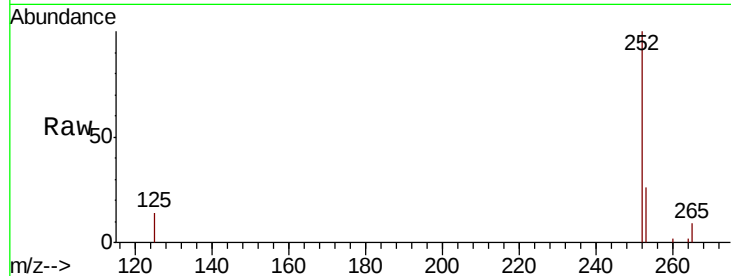
Tgt Ion:252 Resp: 4926

Ion Ratio Lower Upper

252 100

253 25.6 20.0 30.0

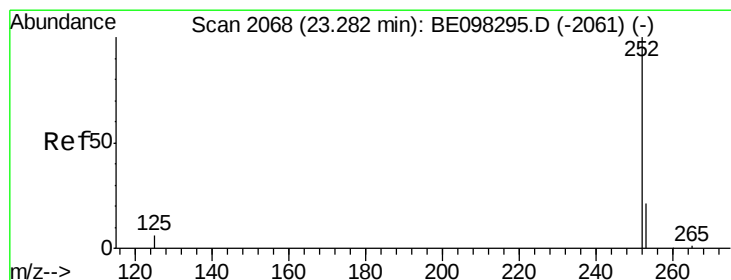
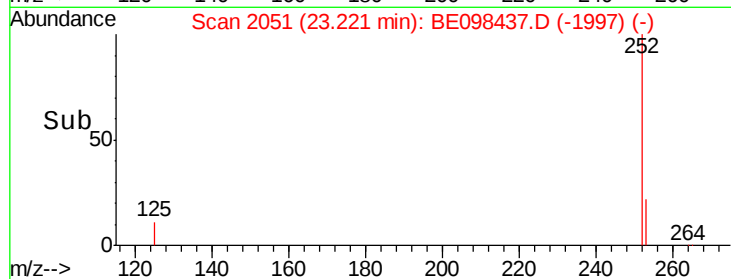
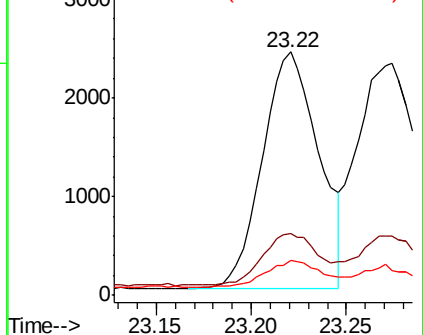
125 14.1 9.6 14.4



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: 0.254 ng

RT: 23.27 min Scan# 2066

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

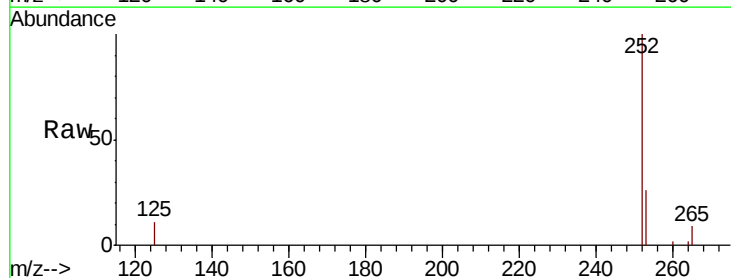
Tgt Ion:252 Resp: 6248

Ion Ratio Lower Upper

252 100

253 25.7 19.0 28.6

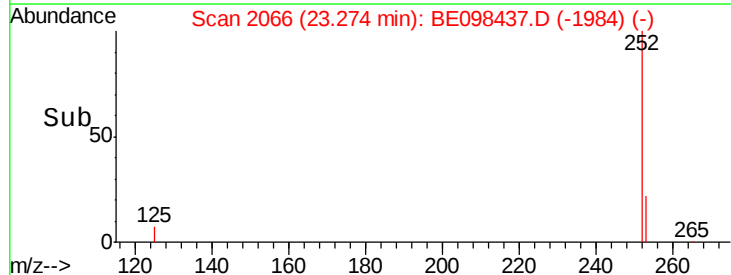
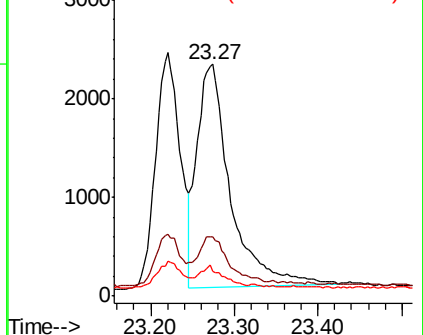
125 10.9 9.1 13.7

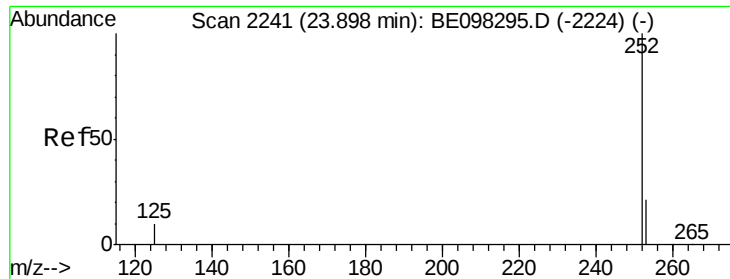


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.246 ng

RT: 23.89 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD

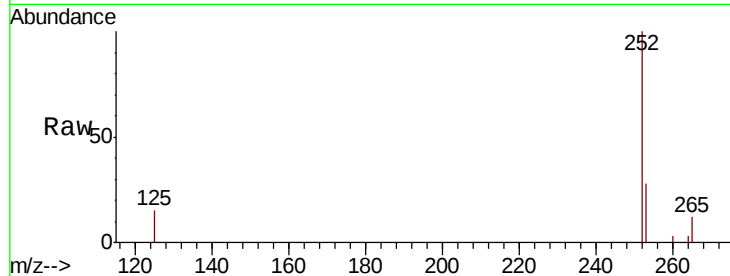
Tgt Ion: 252 Resp: 5346

Ion Ratio Lower Upper

252 100

253 28.4 20.6 30.8

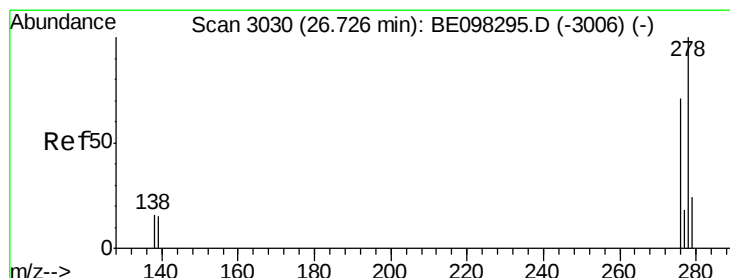
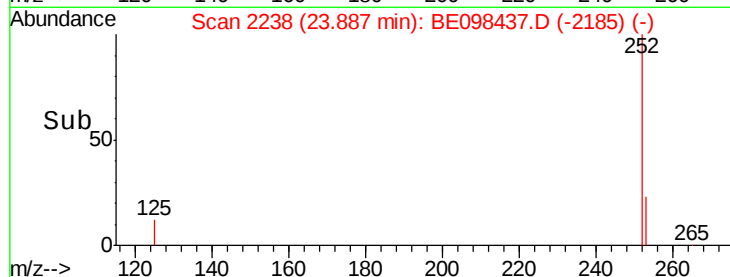
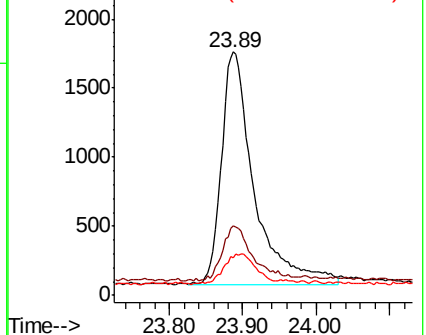
125 15.3 10.5 15.7



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: 0.202 ng

RT: 26.72 min Scan# 3028

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

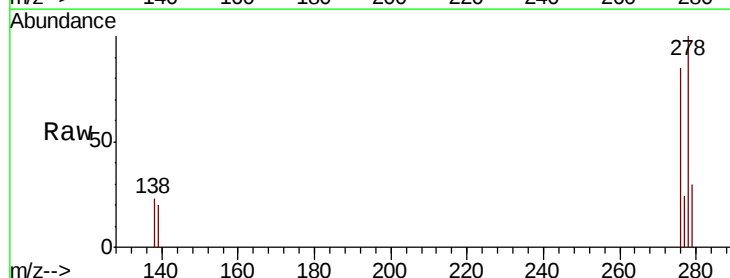
Tgt Ion: 278 Resp: 4135

Ion Ratio Lower Upper

278 100

139 19.8 14.5 21.7

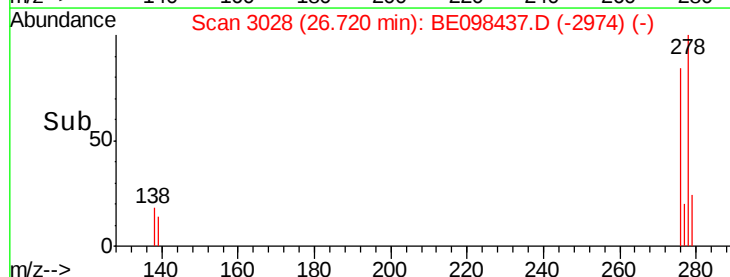
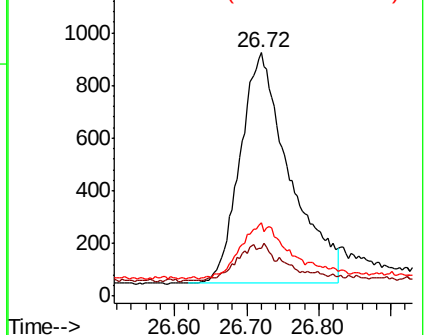
279 29.9 21.8 32.8



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(g,h,i)perylene

Concen: 0.238 ng

RT: 27.51 min Scan# 3249

Delta R.T. -0.01 min

Lab File: BE098437.D

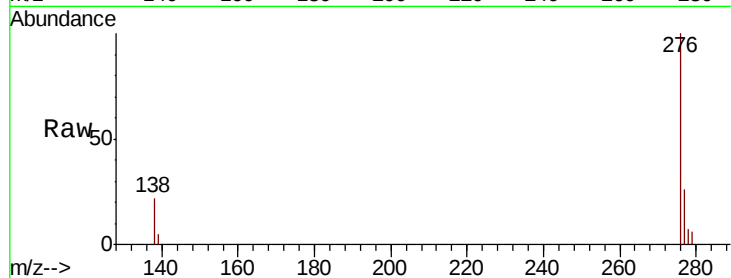
Acq: 14 Dec 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

PB115586BSD



Tgt Ion: 276 Resp: 4911

Ion Ratio Lower Upper

276 100

277 26.2 20.8 31.2

138 22.0 15.8 23.6

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

