

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE043018\  
 Data File : BE096235.D  
 Acq On : 30 Apr 2018 23:10  
 Operator : SJ/JU  
 Sample : J2600-05  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 BP-TT-AOC22-MW07-20180424

Quant Time: May 01 02:32:01 2018  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE041118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 30 14:27:29 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.36  | 152  | 773      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 11.19 | 136  | 2858     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.95 | 164  | 1561     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.65 | 188  | 3775     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.75 | 240  | 3795     | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 24.35 | 264  | 3750     | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.88  | 112  | 464      | 0.19 | ng    | 0.01     |
| 5) Phenol-d6                | 7.52  | 99   | 402      | 0.12 | ng    | 0.01     |
| 8) Nitrobenzene-d5          | 9.54  | 82   | 1356     | 0.40 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.74 | 152  | 1753     | 0.39 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.41 | 330  | 323      | 0.43 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.57 | 172  | 3246     | 0.49 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.64 | 212  | 20743    | 0.40 | ng    | 0.00     |
| 29) Terphenyl-d14           | 20.19 | 244  | 4641     | 0.55 | ng    | 0.00     |

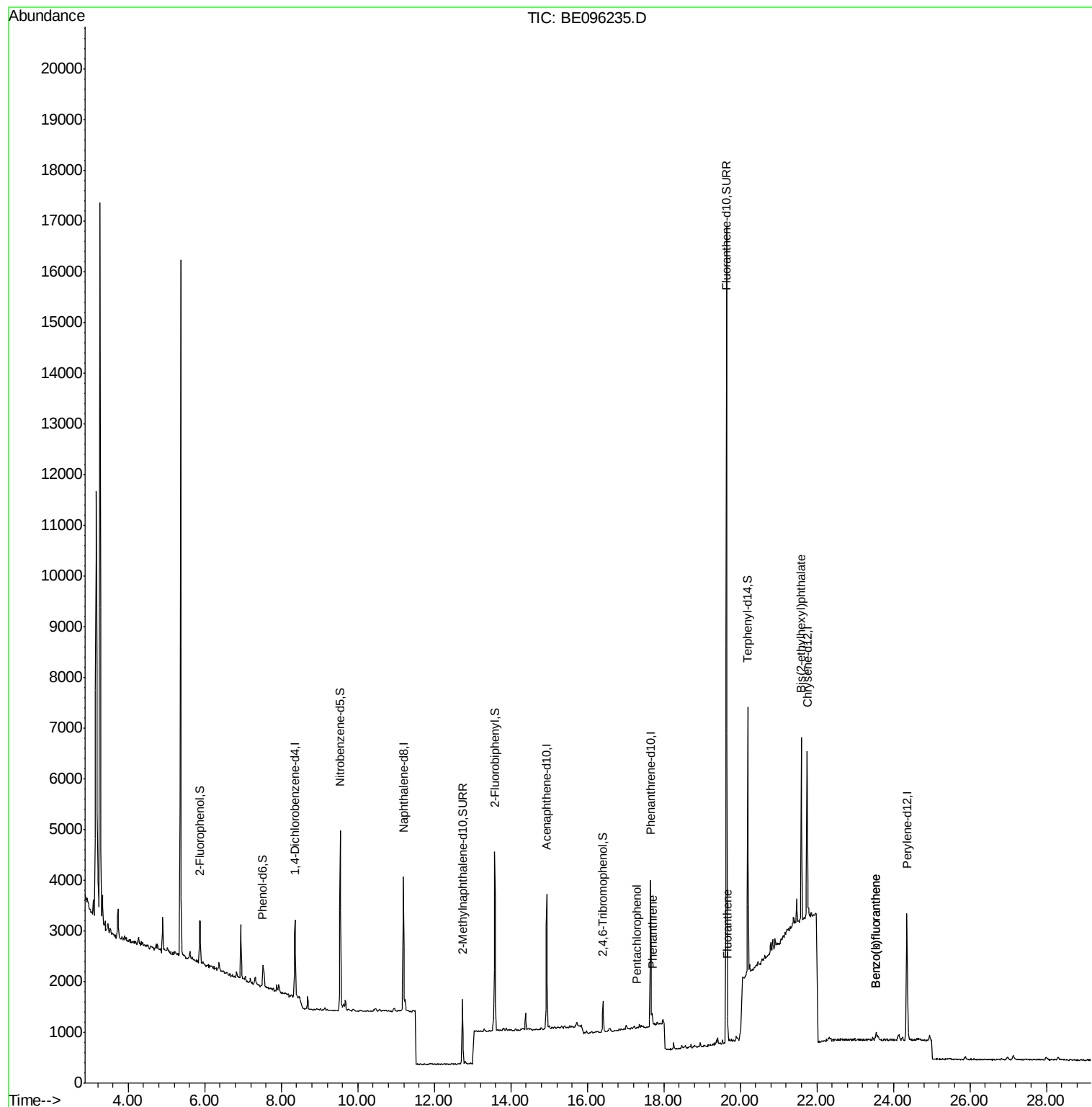
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 22) Pentachlorophenol          | 17.29 | 266  | 1        | 0.136 | ng    | 92     |
| 23) Phenanthrene               | 17.70 | 178  | 266      | 0.025 | ng    | # 90   |
| 26) Fluoranthene               | 19.67 | 202  | 345      | 0.025 | ng    | 94     |
| 32) Bis(2-ethylhexyl)phthalate | 21.60 | 149  | 4388     | 0.140 | ng    | 99     |
| 35) Benzo(b)fluoranthene       | 23.55 | 252  | 248      | 0.022 | ng    | # 1    |
| 36) Benzo(k)fluoranthene       | 23.55 | 252  | 248      | 0.021 | ng    | # 1    |

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

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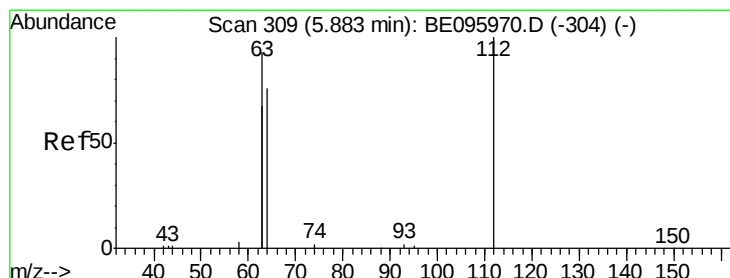
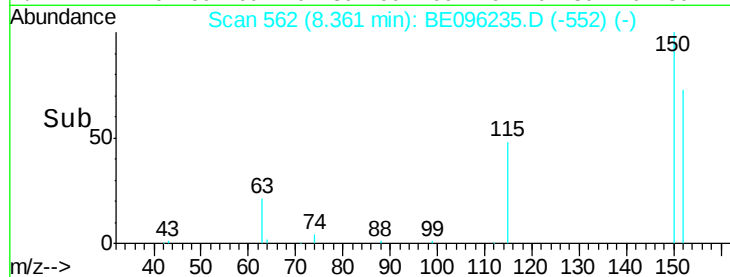
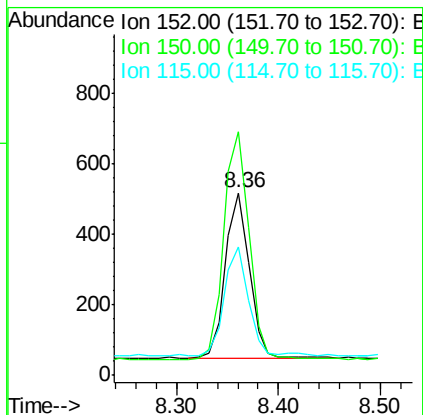
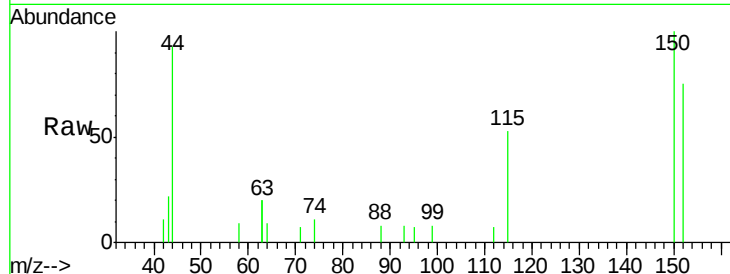


#1

1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 8.36 min Scan# 562  
 Delta R.T. 0.00 min  
 Lab File: BE096235.D  
 Acq: 30 Apr 2018 23:10

Instrument :  
 BNA\_E  
 ClientSampleId :  
 BP-TT-AOC22-MW07-20180424

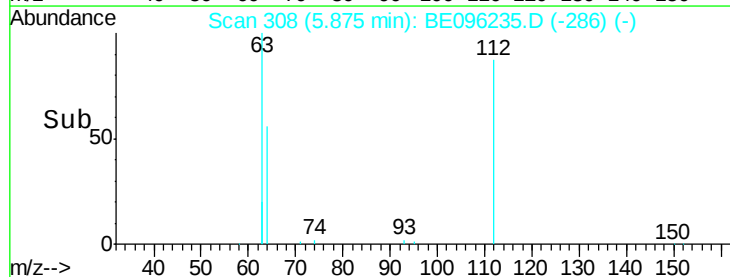
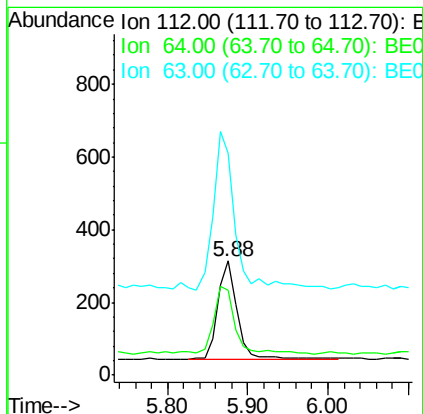
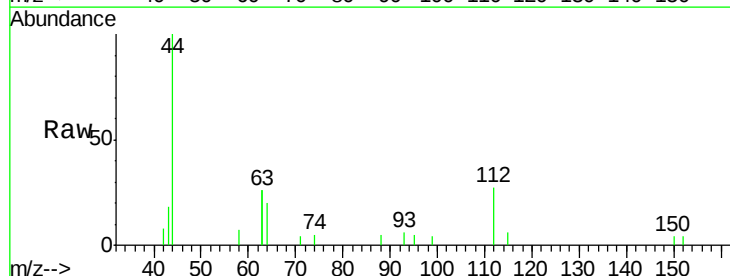
Tgt Ion:152 Resp: 773  
 Ion Ratio Lower Upper  
 152 100  
 150 133.7 117.2 175.8  
 115 70.6 57.0 85.6



#4

2-Fluorophenol  
 Concen: 0.194 ng  
 RT: 5.88 min Scan# 308  
 Delta R.T. 0.01 min  
 Lab File: BE096235.D  
 Acq: 30 Apr 2018 23:10

Tgt Ion:112 Resp: 464  
 Ion Ratio Lower Upper  
 112 100  
 64 73.7 60.1 90.1  
 63 181.3 116.8 175.2#





#5

Phenol-d6

Concen: 0.122 ng

RT: 7.52 min Scan# 476

Delta R.T. 0.01 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

Instrument :

BNA\_E

ClientSampleId :

BP-TT-AOC22-MW07-20180424

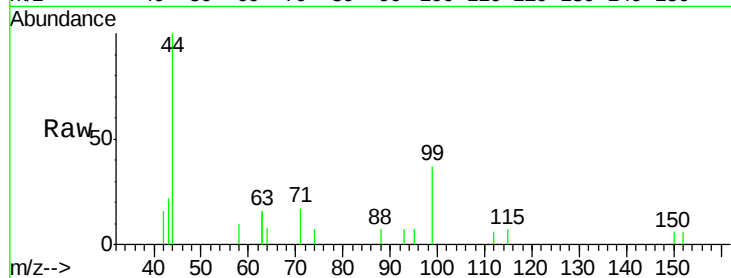
Tgt Ion: 99 Resp: 402

Ion Ratio Lower Upper

99 100

42 30.1 20.2 30.2

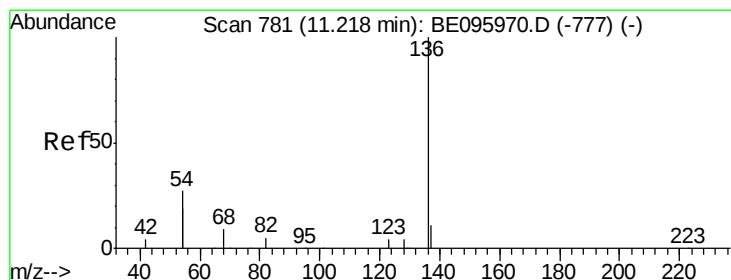
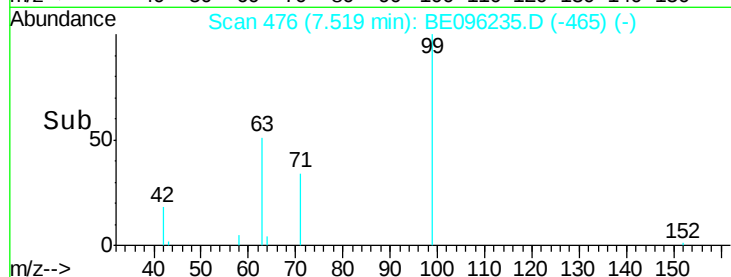
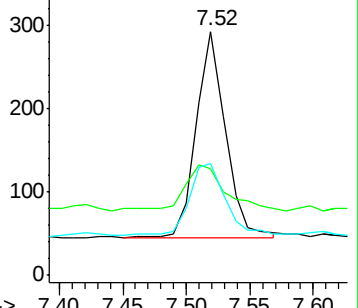
71 42.3 28.4 42.6



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.19 min Scan# 779

Delta R.T. -0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

Tgt Ion: 136 Resp: 2858

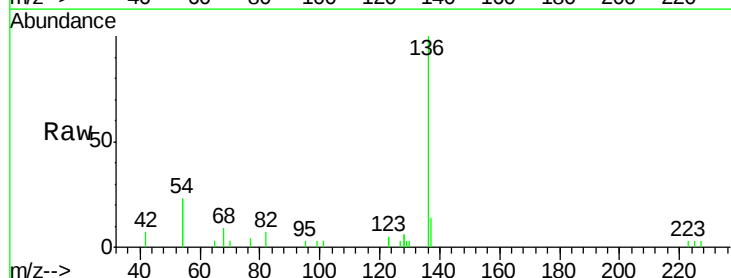
Ion Ratio Lower Upper

136 100

137 14.0 9.5 14.3

54 45.5 29.1 43.7#

68 8.6 6.2 9.2

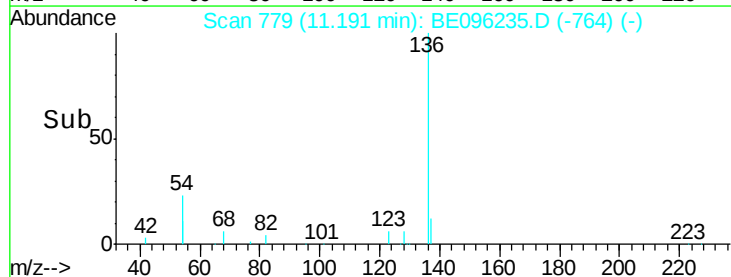
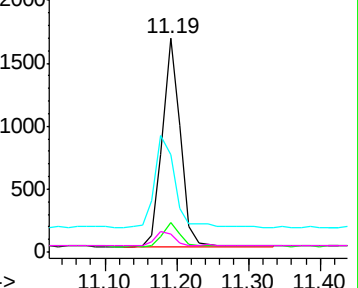


Abundance Ion 136.00 (135.70 to 136.70): E

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





#8

Nitrobenzene-d5

Concen: 0.405 ng

RT: 9.54 min Scan# 652

Delta R.T. -0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

Instrument :

BNA\_E

ClientSampleId :

BP-TT-AOC22-MW07-20180424

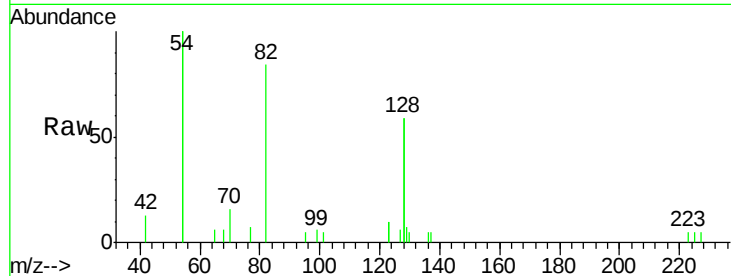
Tgt Ion: 82 Resp: 1356

Ion Ratio Lower Upper

82 100

128 141.7 150.0 225.0#

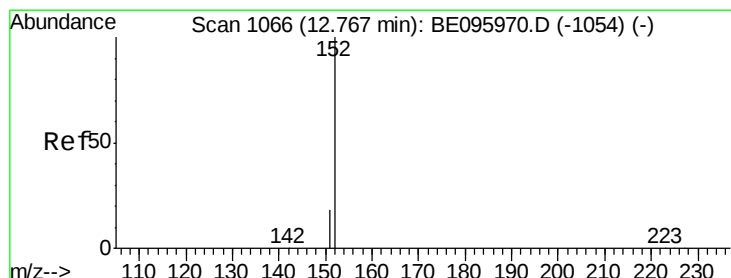
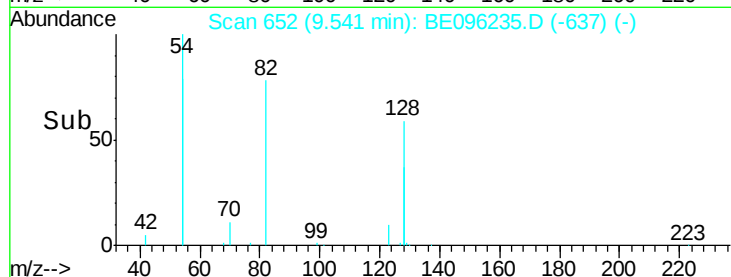
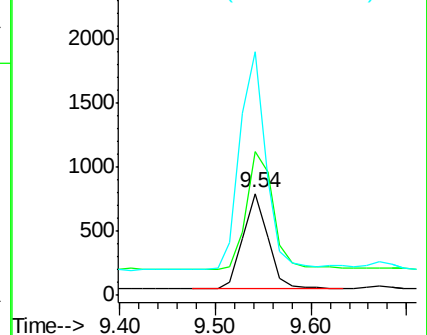
54 239.4 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.387 ng

RT: 12.74 min Scan# 1059

Delta R.T. 0.00 min

Lab File: BE096235.D

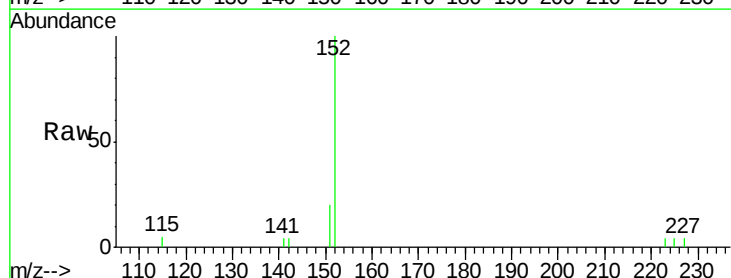
Acq: 30 Apr 2018 23:10

Tgt Ion: 152 Resp: 1753

Ion Ratio Lower Upper

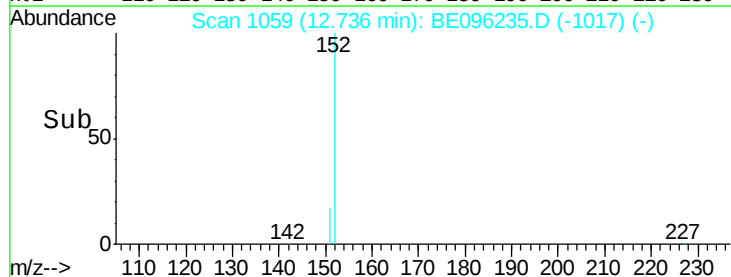
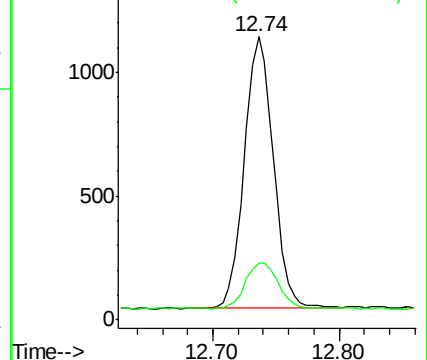
152 100

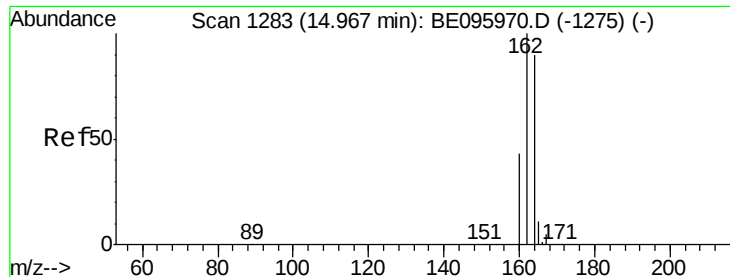
151 19.2 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.95 min Scan# 1281

Delta R.T. 0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

Instrument :

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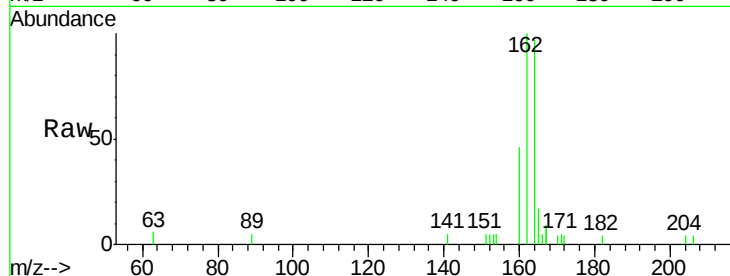
Tgt Ion:164 Resp: 1561

Ion Ratio Lower Upper

164 100

162 102.6 83.1 124.7

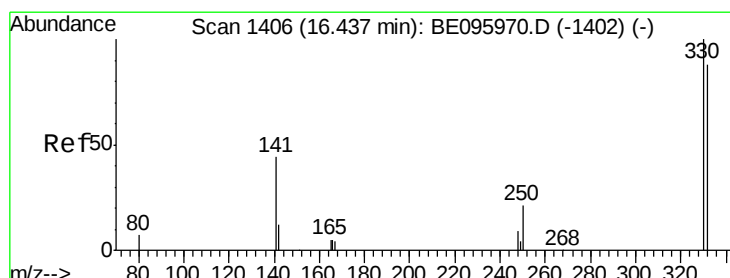
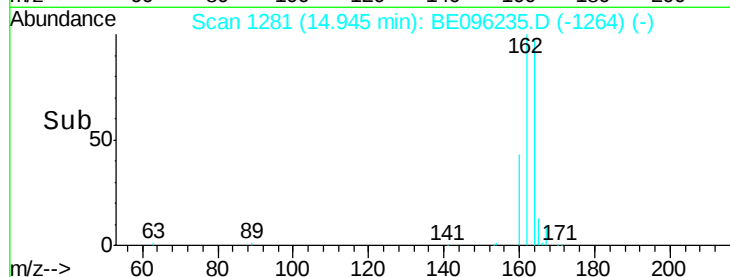
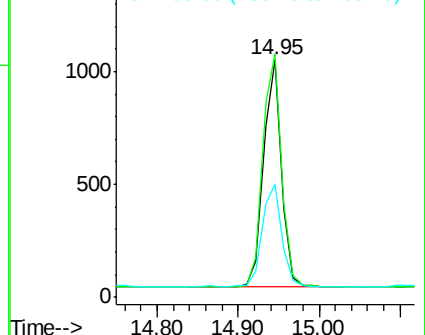
160 47.5 37.1 55.7



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: 0.428 ng

RT: 16.41 min Scan# 1404

Delta R.T. 0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

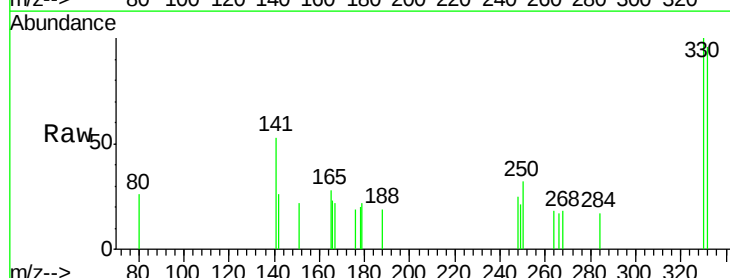
Tgt Ion:330 Resp: 323

Ion Ratio Lower Upper

330 100

332 97.8 152.7 229.1#

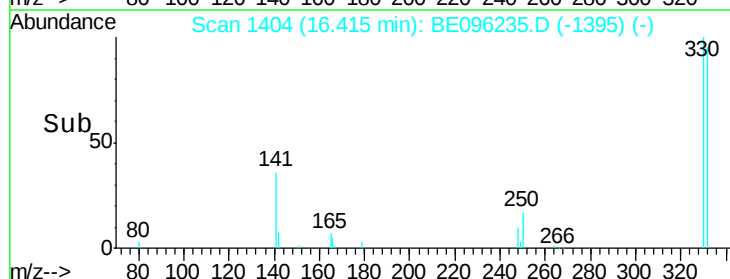
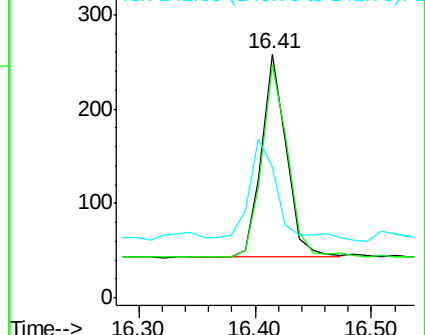
141 50.2 33.7 50.5

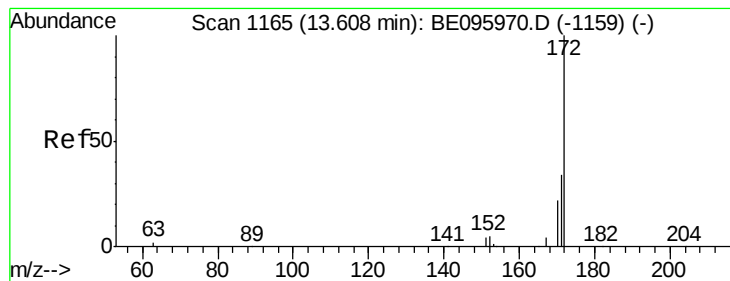


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.486 ng

RT: 13.57 min Scan# 1162

Delta R.T. 0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

Instrument :

BNA\_E

ClientSampleId :

BP-TT-AOC22-MW07-20180424

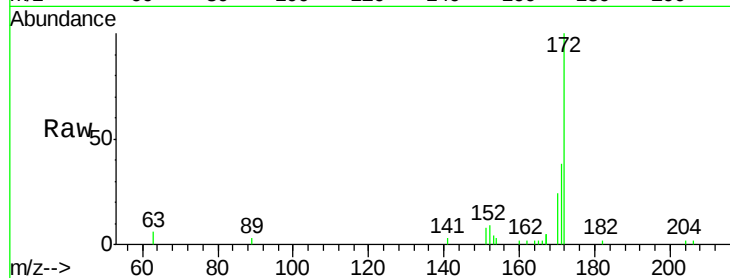
Tgt Ion:172 Resp: 3246

Ion Ratio Lower Upper

172 100

171 37.8 29.9 44.9

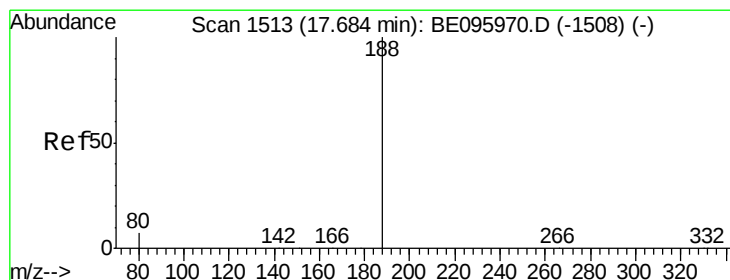
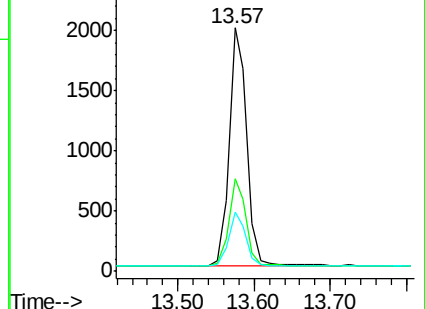
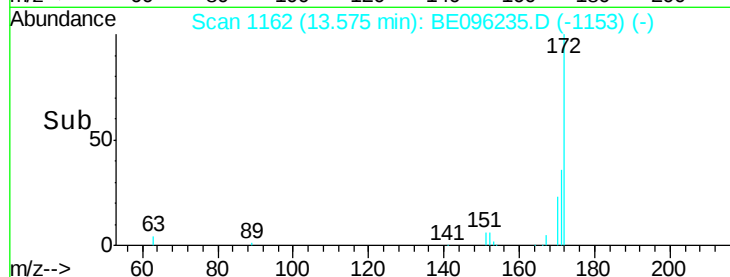
170 24.4 21.8 32.8



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.65 min Scan# 1510

Delta R.T. 0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

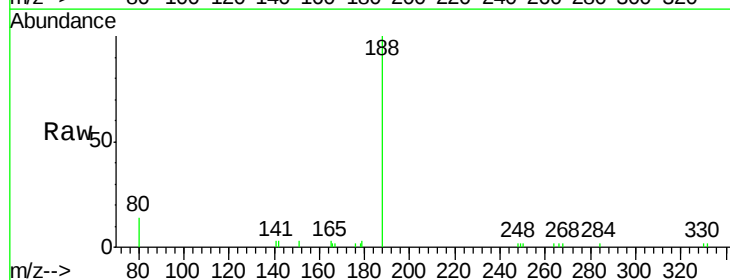
Tgt Ion:188 Resp: 3775

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

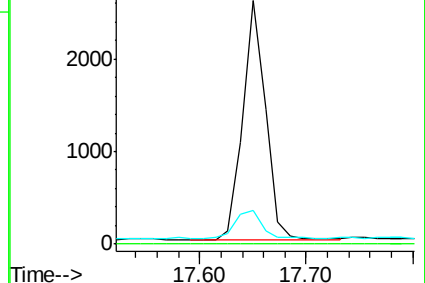
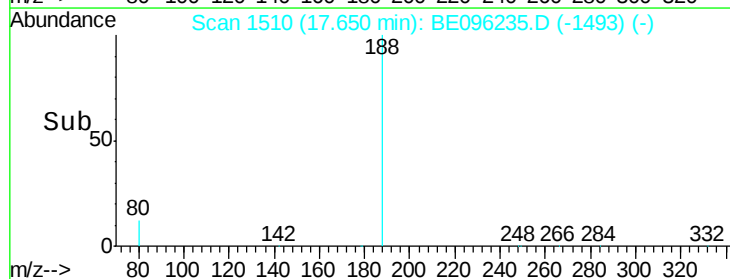
80 13.8 3.6 5.4#

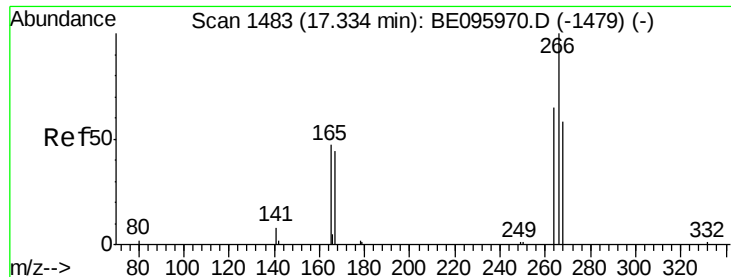


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

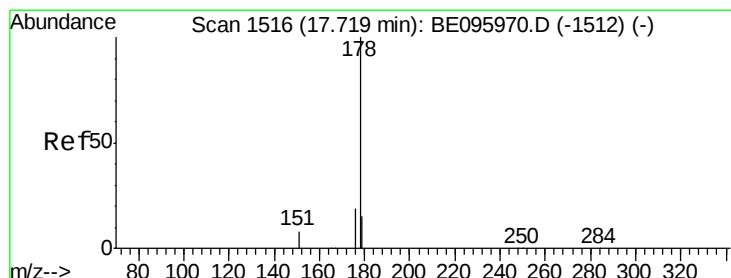
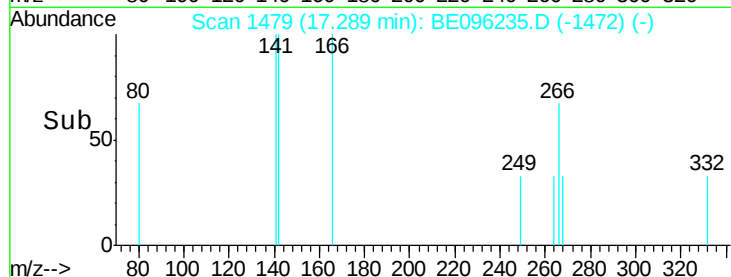
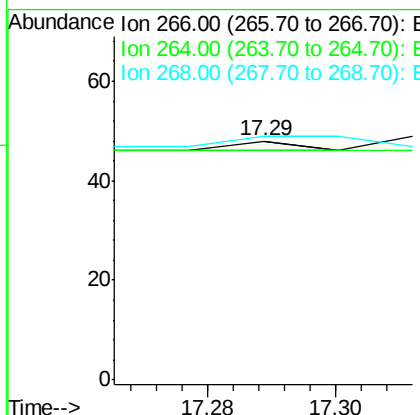
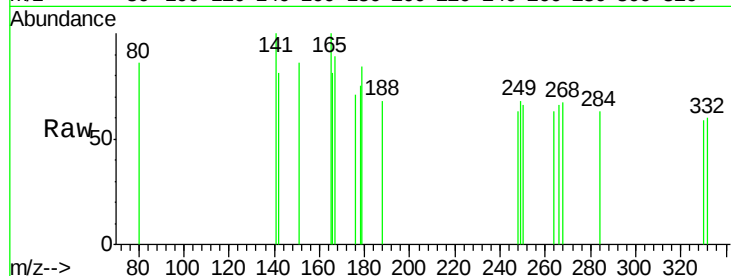




#22  
 Pentachlorophenol  
 Concen: 0.136 ng  
 RT: 17.29 min Scan# 1479  
 Delta R.T. -0.02 min  
 Lab File: BE096235.D  
 Acq: 30 Apr 2018 23:10

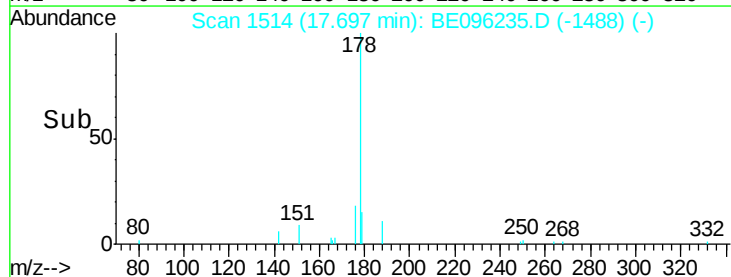
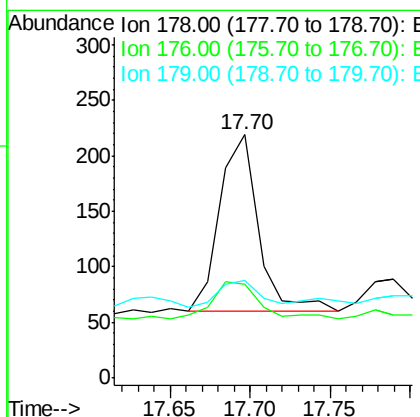
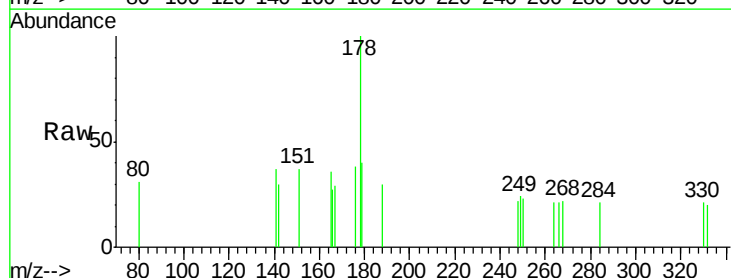
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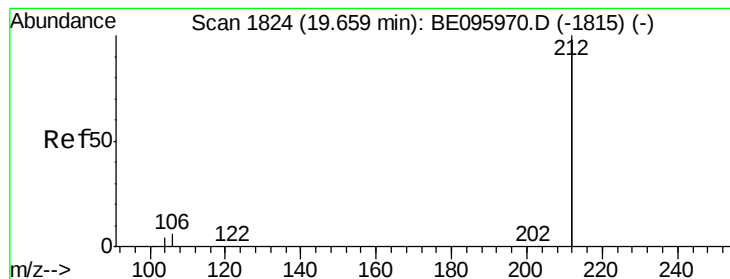
Tgt Ion: 266 Resp: 1  
 Ion Ratio Lower Upper  
 266 100  
 264 95.8 72.5 108.7  
 268 102.1 73.8 110.6



#23  
 Phenanthrene  
 Concen: 0.025 ng  
 RT: 17.70 min Scan# 1514  
 Delta R.T. 0.00 min  
 Lab File: BE096235.D  
 Acq: 30 Apr 2018 23:10

Tgt Ion: 178 Resp: 266  
 Ion Ratio Lower Upper  
 178 100  
 176 25.2 15.1 22.7#  
 179 16.9 11.8 17.6





#25

Fluoranthene-d10

Concen: 0.405 ng

RT: 19.64 min Scan# 1820

Delta R.T. 0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

Instrument :

BNA\_E

ClientSampleId :

BP-TT-AOC22-MW07-20180424

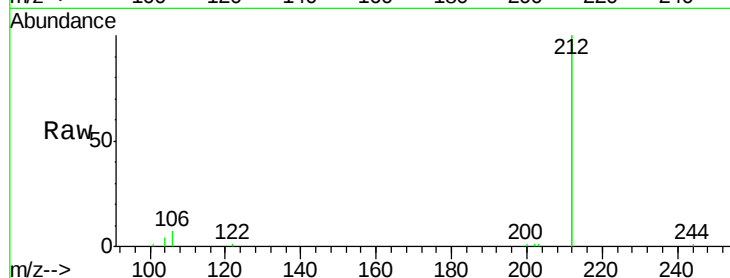
Tgt Ion:212 Resp: 20743

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

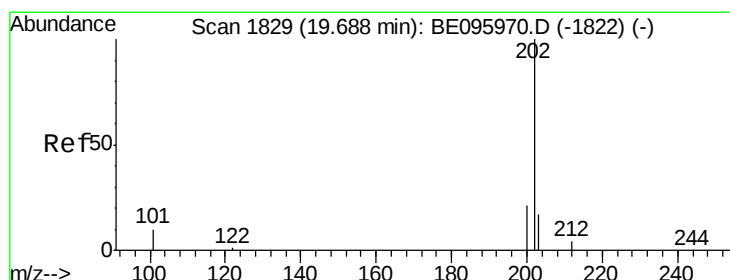
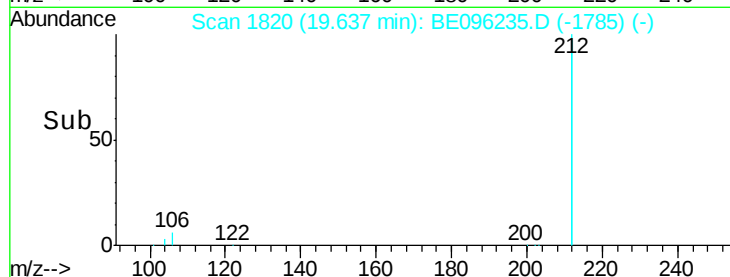
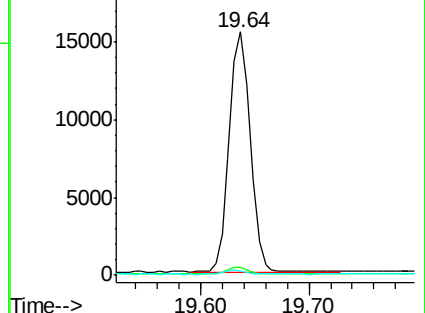
104 1.8 1.6 2.4



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: 0.025 ng

RT: 19.67 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

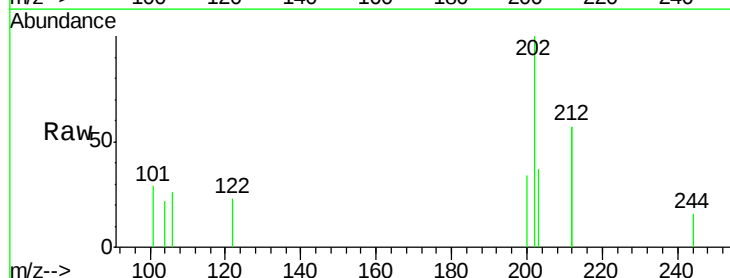
Tgt Ion:202 Resp: 345

Ion Ratio Lower Upper

202 100

101 13.9 9.8 14.8

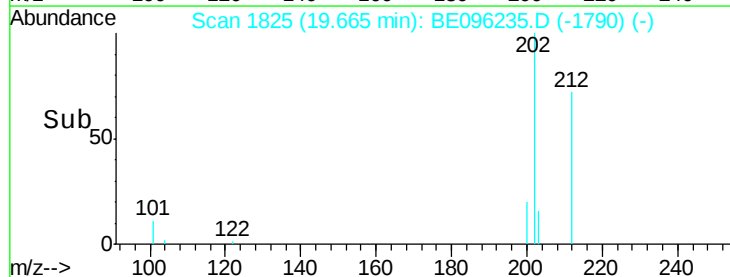
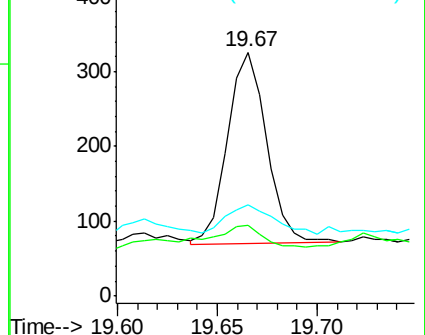
203 20.0 13.7 20.5

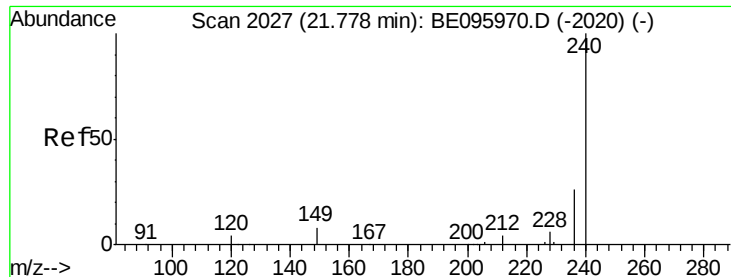


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.75 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

Instrument :

BNA\_E

ClientSampleId :

BP-TT-AOC22-MW07-20180424

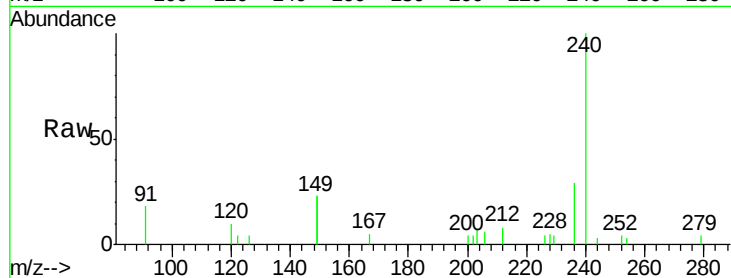
Tgt Ion:240 Resp: 3795

Ion Ratio Lower Upper

240 100

120 9.5 5.5 8.3#

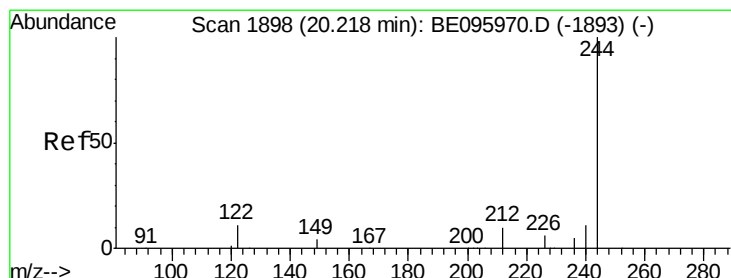
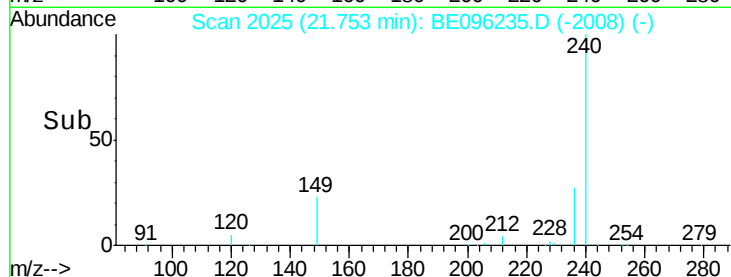
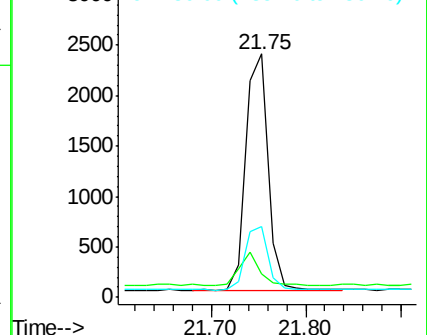
236 29.0 20.7 31.1



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



#29

Terphenyl-d14

Concen: 0.554 ng

RT: 20.19 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

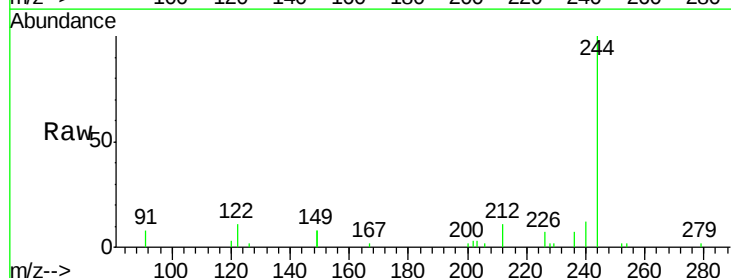
Tgt Ion:244 Resp: 4641

Ion Ratio Lower Upper

244 100

212 11.1 25.4 38.0#

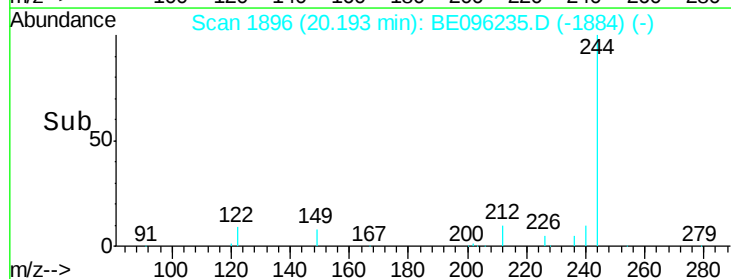
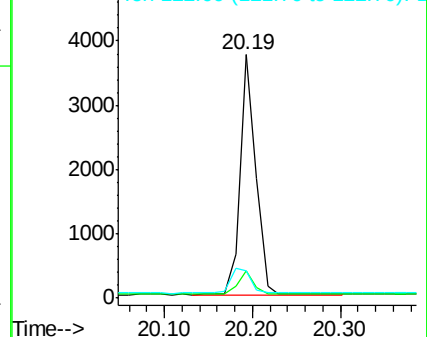
122 11.0 8.1 12.1

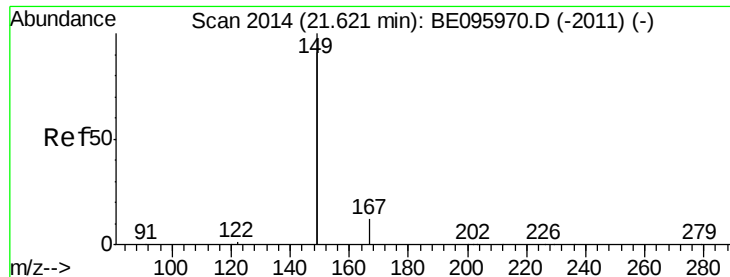


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

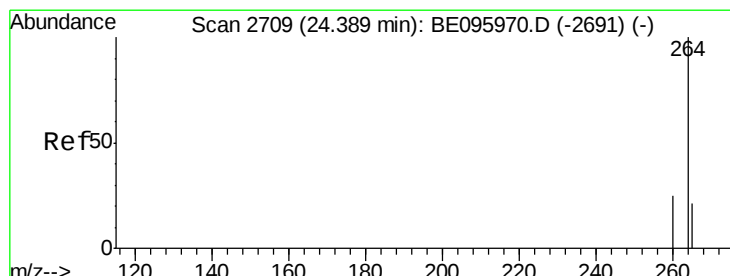
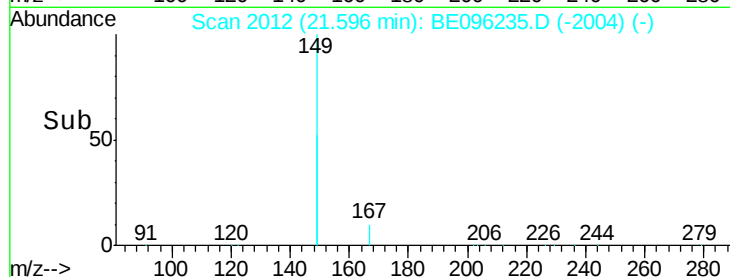
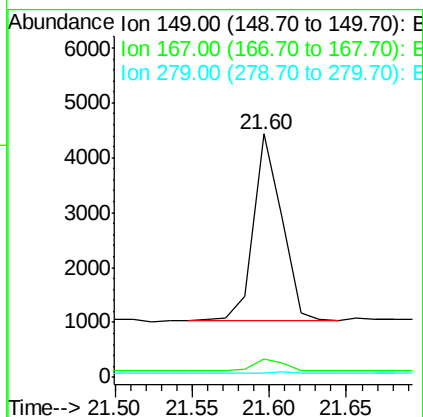
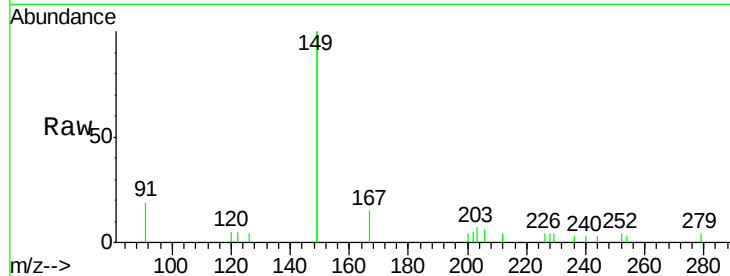




#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.140 ng  
 RT: 21.60 min Scan# 2012  
 Delta R.T. -0.00 min  
 Lab File: BE096235.D  
 Acq: 30 Apr 2018 23:10

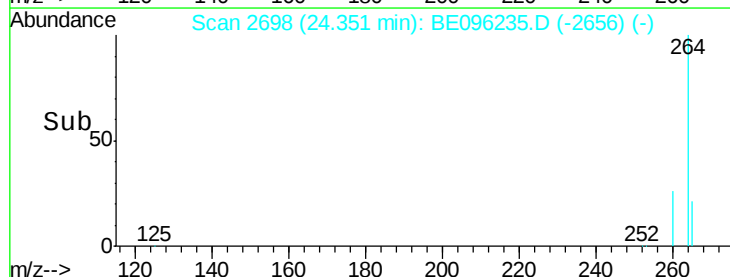
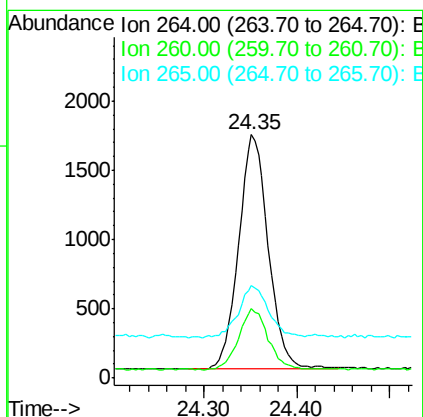
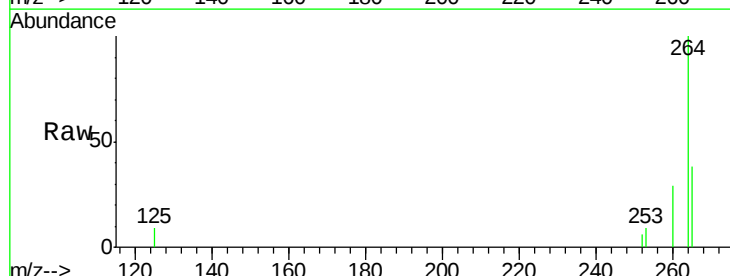
Instrument :  
 BNA\_E  
 ClientSampleId :  
 BP-TT-AOC22-MW07-20180424

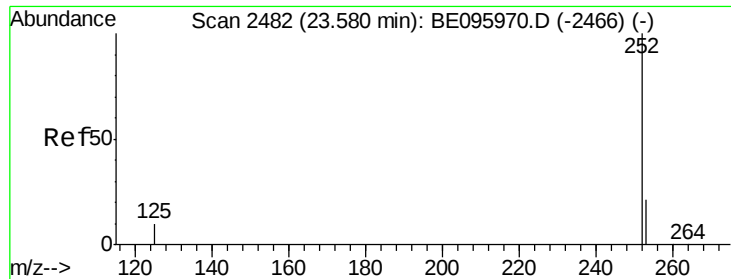
Tgt Ion:149 Resp: 4388  
 Ion Ratio Lower Upper  
 149 100  
 167 6.9 5.4 8.0  
 279 1.0 0.7 1.1



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.35 min Scan# 2698  
 Delta R.T. -0.00 min  
 Lab File: BE096235.D  
 Acq: 30 Apr 2018 23:10

Tgt Ion:264 Resp: 3750  
 Ion Ratio Lower Upper  
 264 100  
 260 28.6 20.5 30.7  
 265 37.9 22.8 34.2#





#35

Benzo(b)fluoranthene

Concen: 0.022 ng

RT: 23.55 min Scan# 2474

Delta R.T. 0.01 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

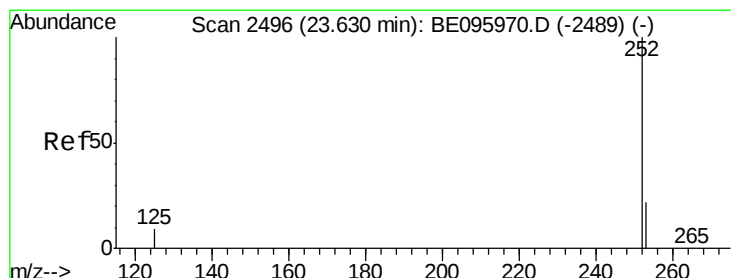
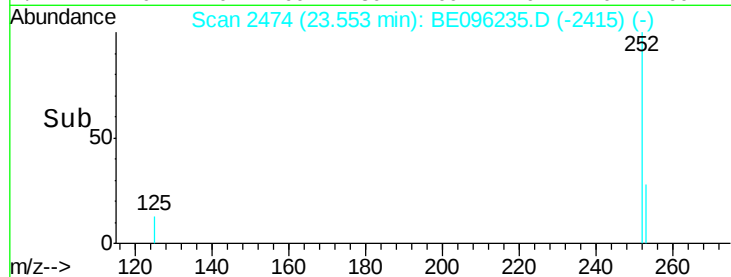
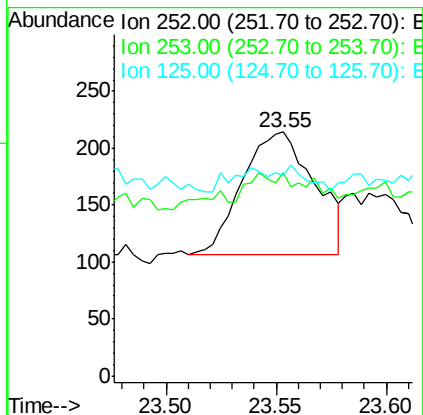
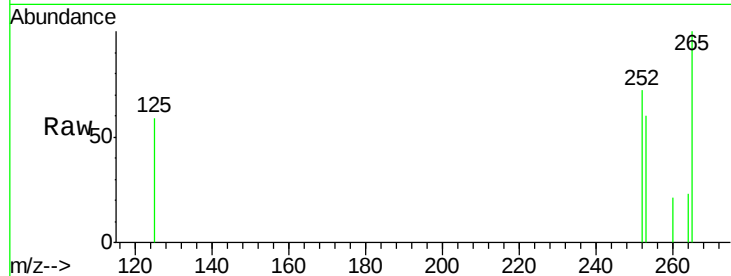
Instrument :

BNA\_E

ClientSampleId :

BP-TT-AOC22-MW07-20180424

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 248   |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 83.2  | 20.0  | 30.0# |
| 125      | 82.2  | 16.0  | 24.0# |



#36

Benzo(k)fluoranthene

Concen: 0.021 ng

RT: 23.55 min Scan# 2474

Delta R.T. -0.04 min

Lab File: BE096235.D

Acq: 30 Apr 2018 23:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 248   |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 83.2  | 16.0  | 24.0# |
| 125      | 82.2  | 8.0   | 12.0# |

