

Data Path : Z:\HPCHEM1\BNA E\DATA\BE122217\  
 Data File : BE095044.D  
 Acq On : 22 Dec 2017 14:05  
 Operator : SJ/JU  
 Sample : I7014-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-171219

Quant Time: Dec 22 17:40:13 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 14 18:42:53 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.46  | 152  | 5960     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 11.31 | 136  | 13915    | 0.40 | ng    | -0.02    |
| 13) Acenaphthene-d10      | 15.03 | 164  | 7674     | 0.40 | ng    | -0.03    |
| 19) Phenanthrene-d10      | 17.74 | 188  | 17698    | 0.40 | ng    | -0.03    |
| 27) Chrysene-d12          | 21.84 | 240  | 17130    | 0.40 | ng    | -0.03    |
| 34) Perylene-d12          | 24.49 | 264  | 14371    | 0.40 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.94  | 112  | 1424     | 0.15 | ng    | -0.01    |
| 5) Phenol-d6                | 7.58  | 99   | 1332     | 0.10 | ng    | -0.01    |
| 8) Nitrobenzene-d5          | 9.63  | 82   | 4151     | 0.36 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10 | 12.84 | 152  | 6413     | 0.28 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 16.50 | 330  | 806      | 0.45 | ng    | -0.03    |
| 15) 2-Fluorobiphenyl        | 13.68 | 172  | 85600    | 2.52 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.72 | 212  | 65040    | 0.28 | ng    | -0.03    |
| 29) Terphenyl-d14           | 20.28 | 244  | 186836   | 5.79 | ng    | -0.03    |

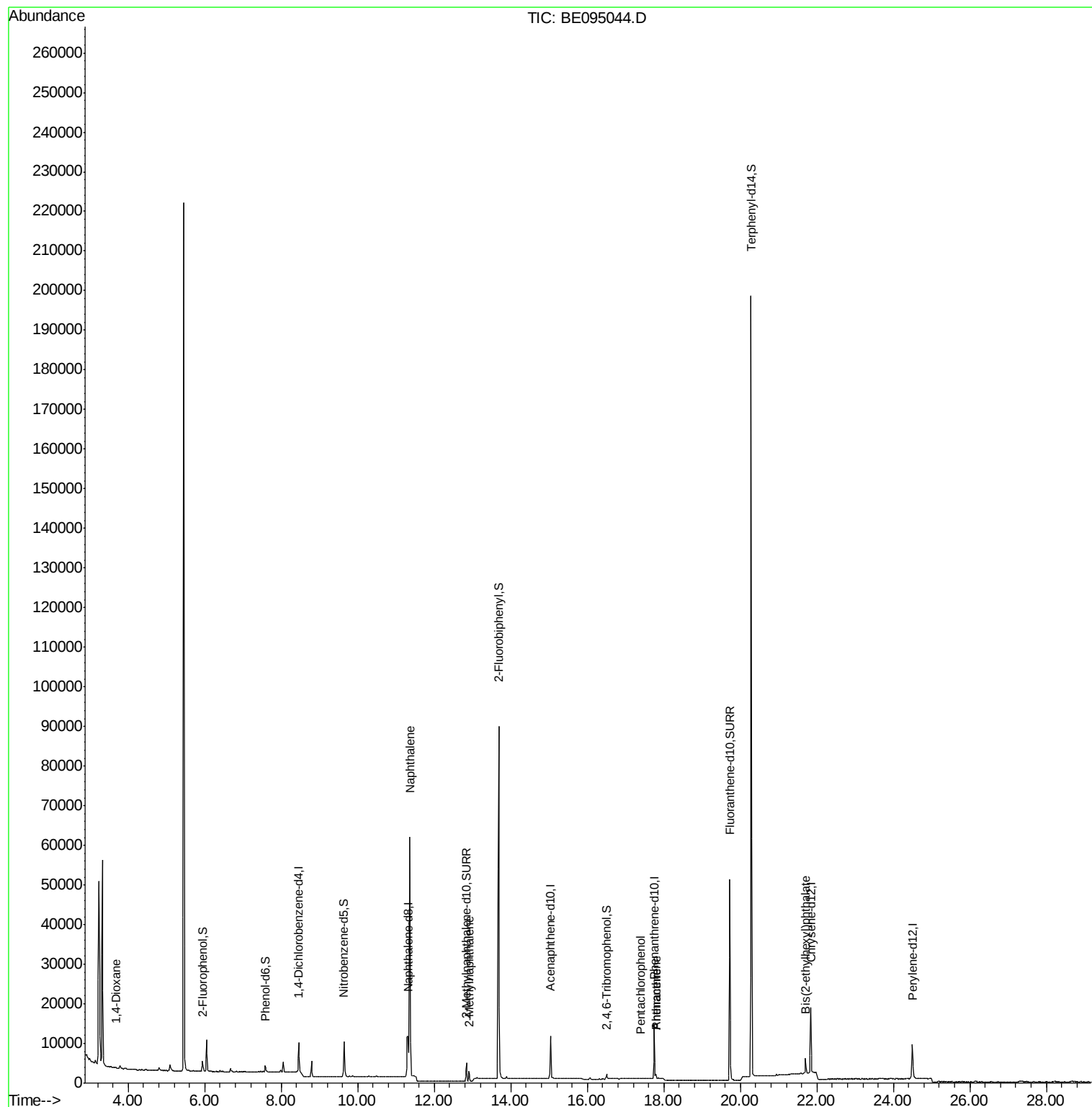
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.68  | 88   | 177      | 0.030 | ng    | # 1    |
| 9) Naphthalene                 | 11.36 | 128  | 122855   | 0.752 | ng    | 99     |
| 12) 2-Methylnaphthalene        | 12.91 | 142  | 1752     | 0.043 | ng    | 97     |
| 22) Pentachlorophenol          | 17.39 | 266  | 10       | 0.083 | ng    | 99     |
| 23) Phenanthrene               | 17.79 | 178  | 1236     | 0.022 | ng    | 98     |
| 24) Anthracene                 | 17.79 | 178  | 1236     | 0.022 | ng    | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.70 | 149  | 5037     | 0.079 | ng    | 100    |

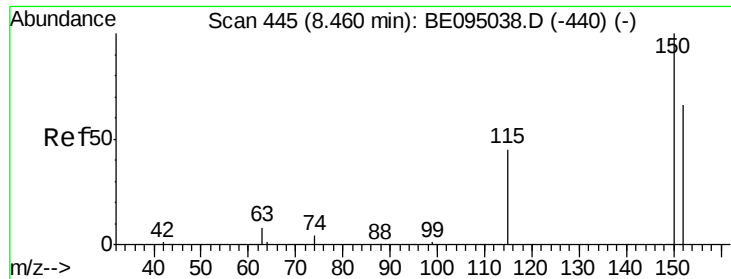
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.46 min Scan# 445

Delta R.T. -0.01 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

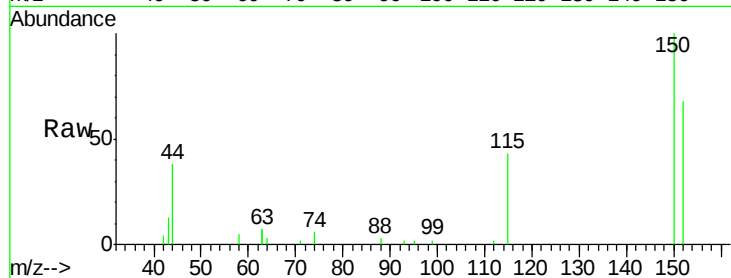
Tot Ion:152 Resp: 5960

Ion Ratio Lower Upper

152 100

150 146.1 117.2 175.8

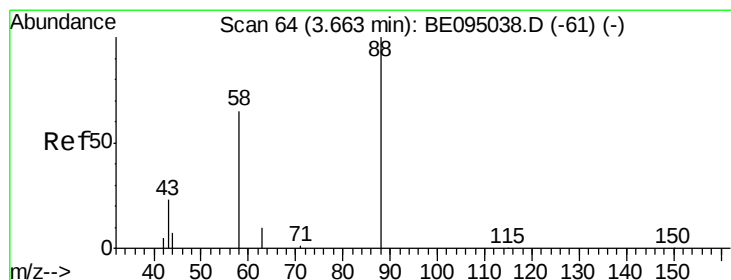
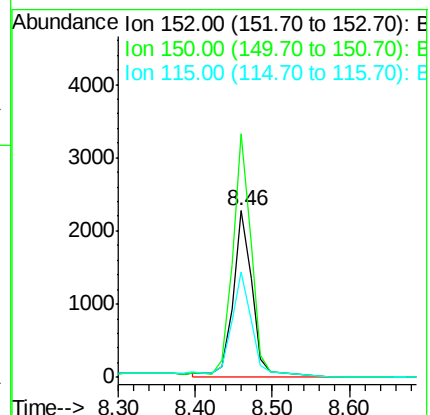
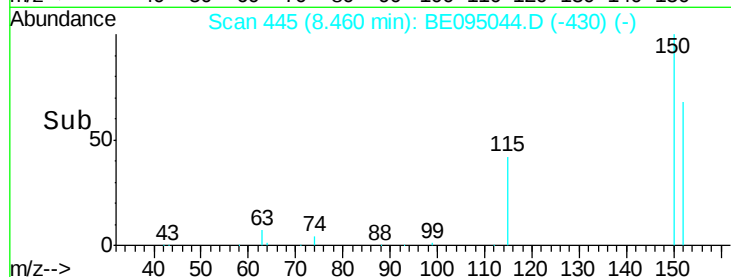
115 63.2 57.0 85.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.030 ng

RT: 3.68 min Scan# 65

Delta R.T. 0.01 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

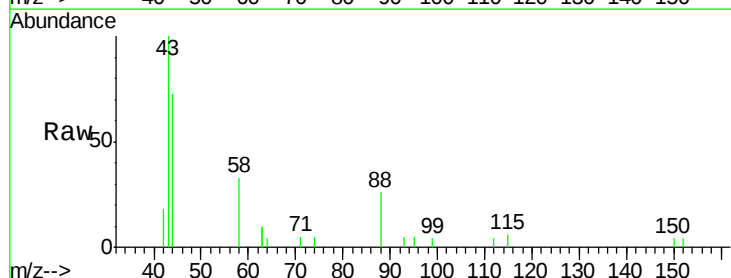
Tgt Ion: 88 Resp: 177

Ion Ratio Lower Upper

88 100

58 246.9 63.2 94.8#

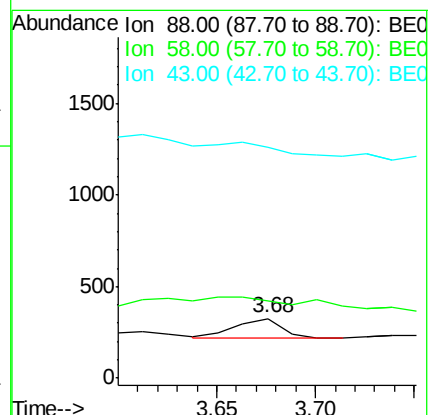
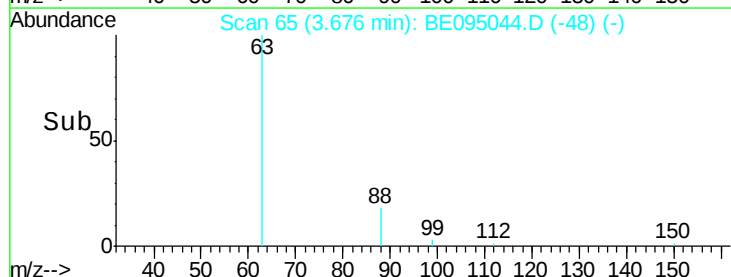
43 0.0 41.2 61.8#

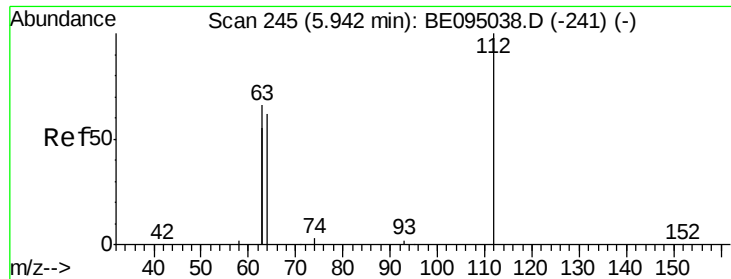


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.154 ng

RT: 5.94 min Scan# 245

Delta R.T. -0.01 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

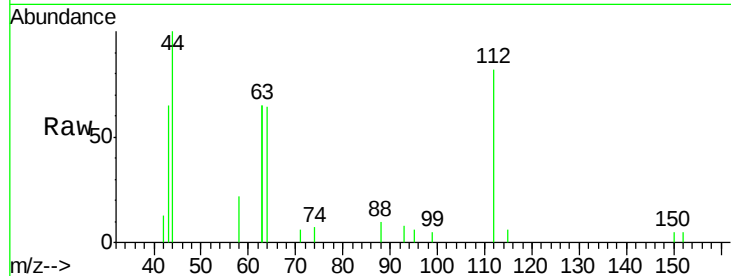
Tot Ion: 112 Resp: 1424

Ion Ratio Lower Upper

112 100

64 72.9 60.1 90.1

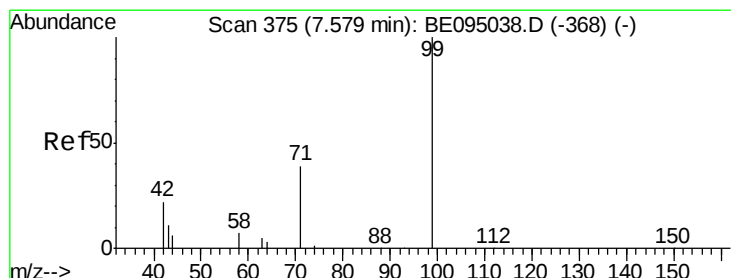
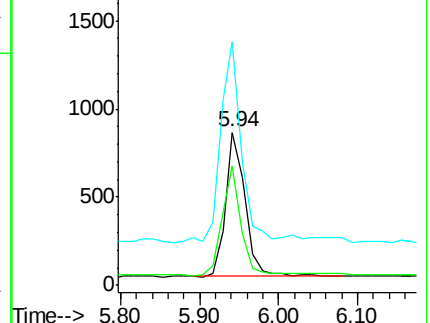
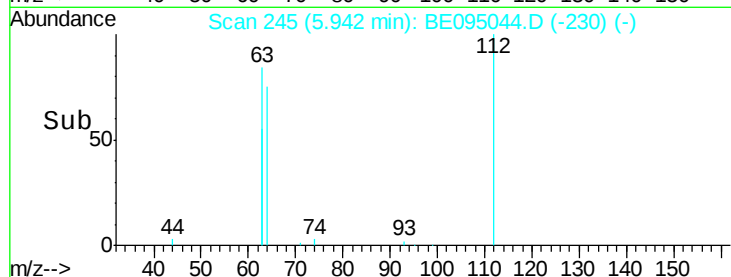
63 147.5 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE095044.D (-230) (-)

Ion 64.00 (63.70 to 64.70): BE095044.D (-230) (-)

Ion 63.00 (62.70 to 63.70): BE095044.D (-230) (-)



#5

Phenol-d6

Concen: 0.097 ng

RT: 7.58 min Scan# 375

Delta R.T. -0.01 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

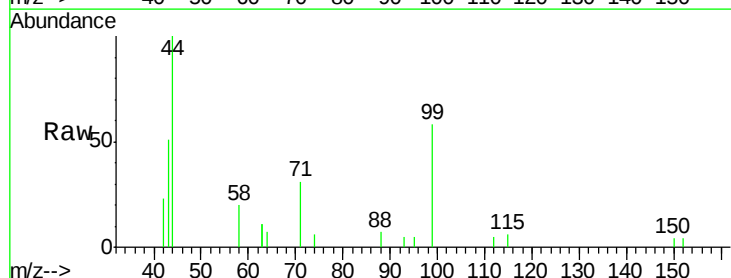
Tgt Ion: 99 Resp: 1332

Ion Ratio Lower Upper

99 100

42 31.2 20.2 30.2#

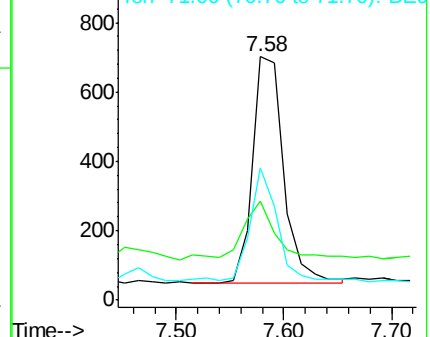
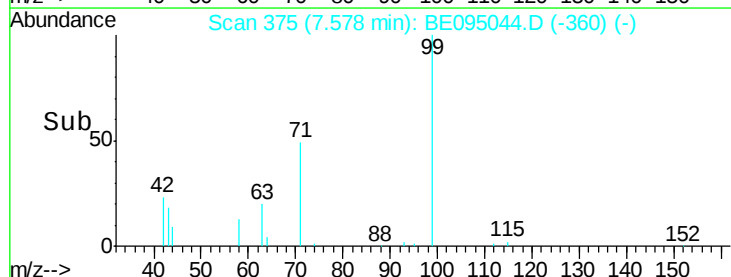
71 44.7 28.4 42.6#

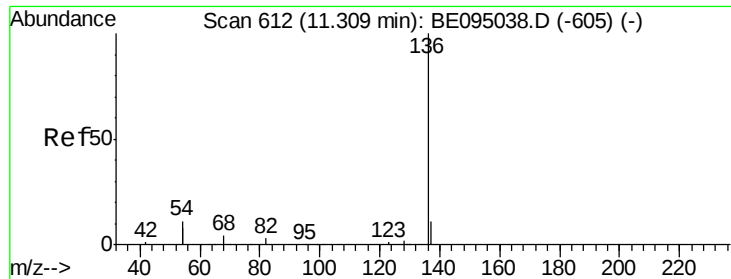


Abundance Ion 99.00 (98.70 to 99.70): BE095044.D (-360) (-)

Ion 42.00 (41.70 to 42.70): BE095044.D (-360) (-)

Ion 71.00 (70.70 to 71.70): BE095044.D (-360) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.31 min Scan# 612

Delta R.T. -0.02 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

Tot Ion:136 Resp: 13915

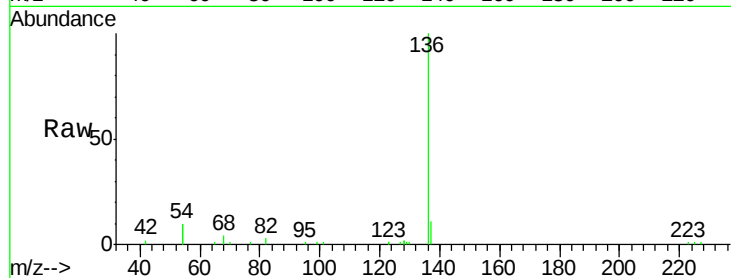
Ion Ratio Lower Upper

136 100

137 11.0 9.5 14.3

54 19.0 29.1 43.7#

68 4.2 6.2 9.2#

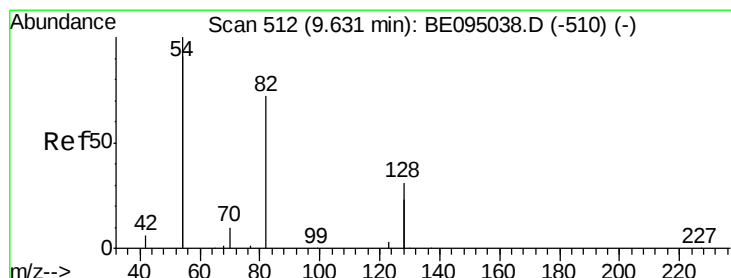
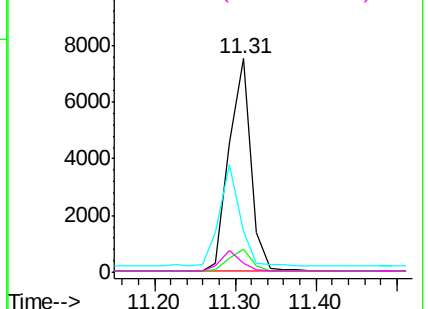
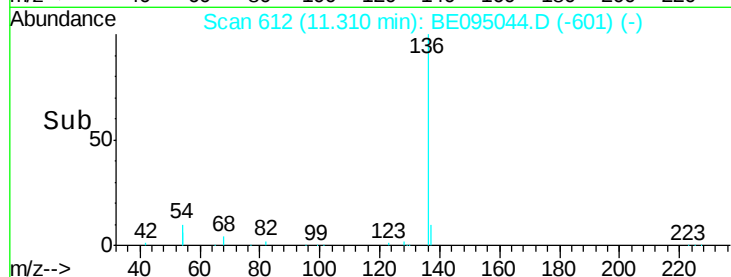


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.364 ng

RT: 9.63 min Scan# 512

Delta R.T. -0.02 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

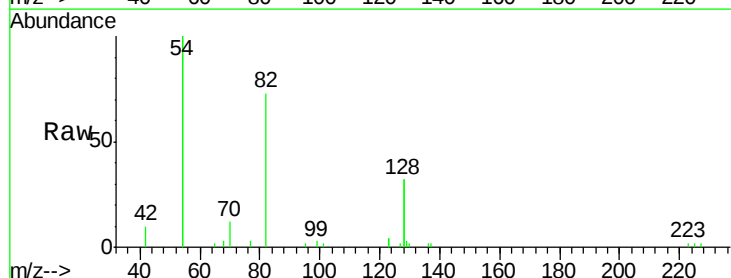
Tgt Ion: 82 Resp: 4151

Ion Ratio Lower Upper

82 100

128 88.7 150.0 225.0#

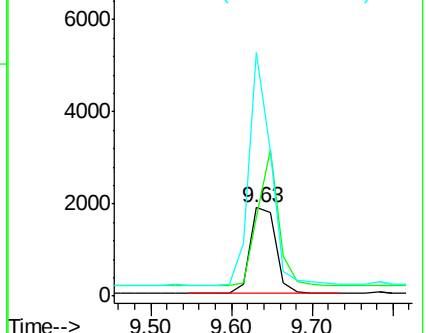
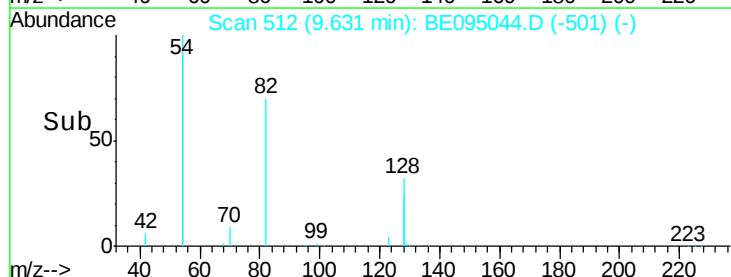
54 275.8 154.2 231.4#

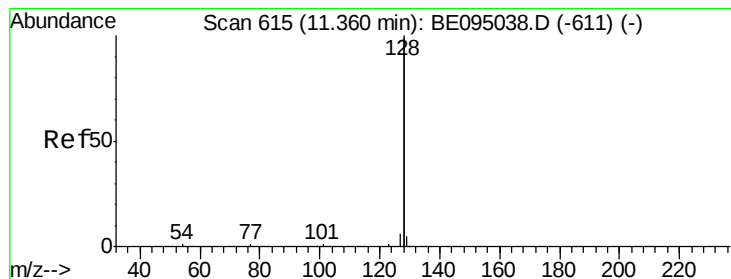


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.752 ng

RT: 11.36 min Scan# 615

Delta R.T. -0.02 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

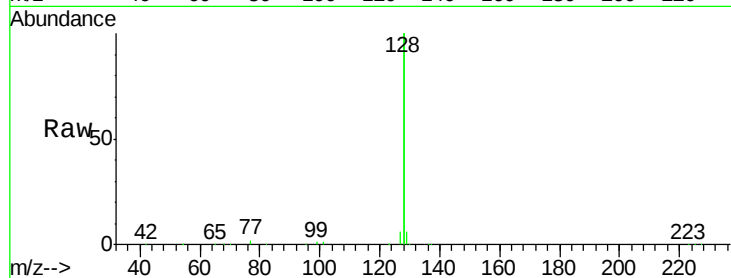
Tot Ion:128 Resp: 122855

Ion Ratio Lower Upper

128 100

129 2.9 2.6 3.8

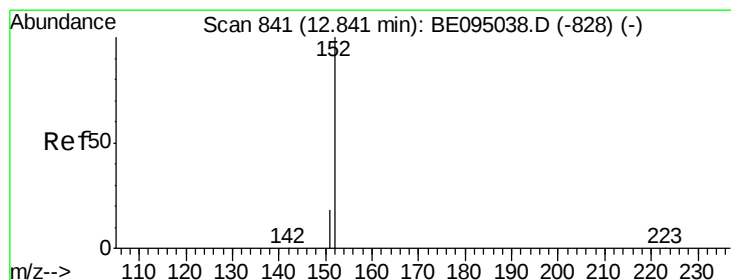
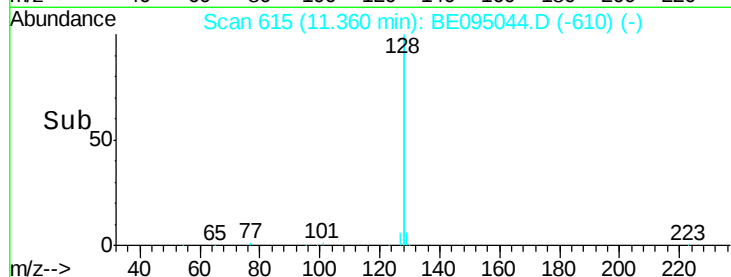
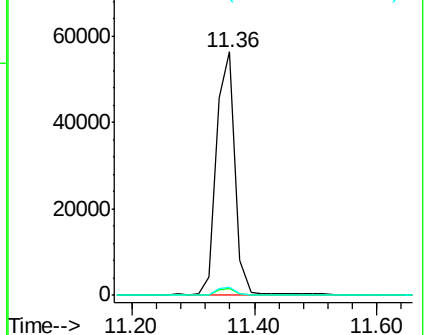
127 3.2 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.281 ng

RT: 12.84 min Scan# 841

Delta R.T. -0.02 min

Lab File: BE095044.D

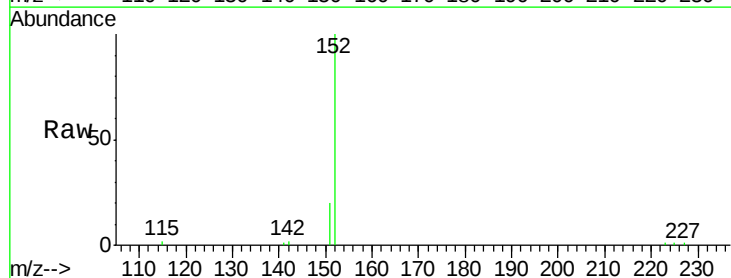
Acq: 22 Dec 2017 14:05

Tgt Ion:152 Resp: 6413

Ion Ratio Lower Upper

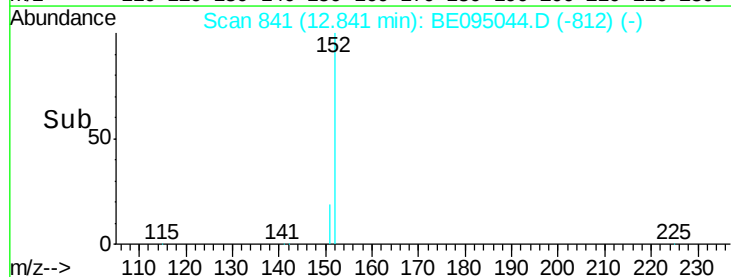
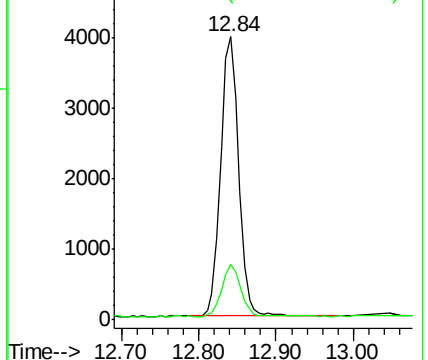
152 100

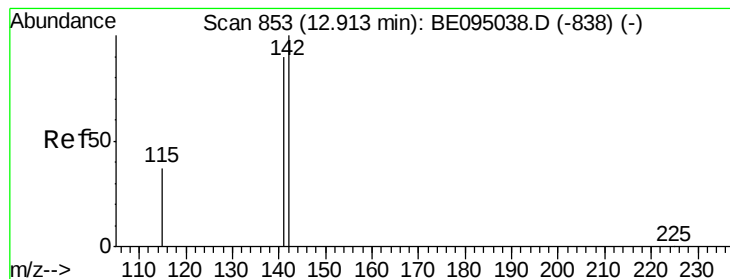
151 19.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.043 ng

RT: 12.91 min Scan# 853

Delta R.T. -0.02 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

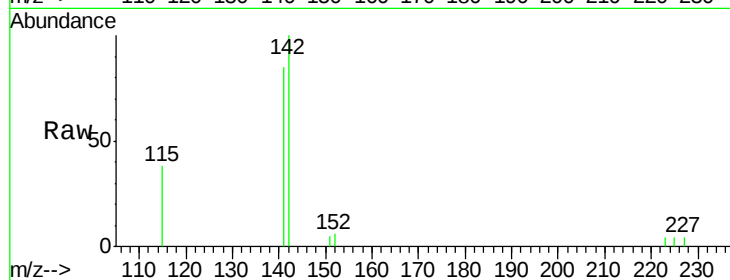
Tot Ion:142 Resp: 1752

Ion Ratio Lower Upper

142 100

141 85.1 70.4 105.6

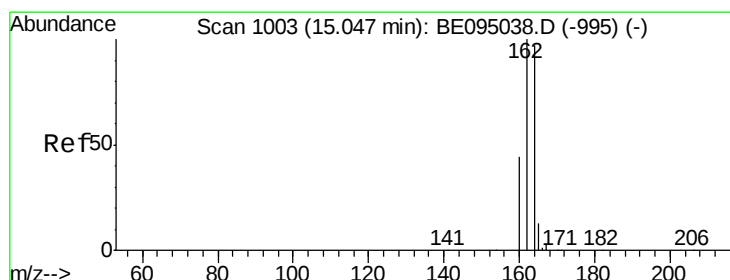
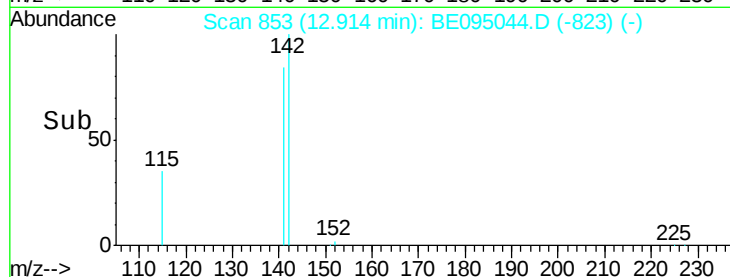
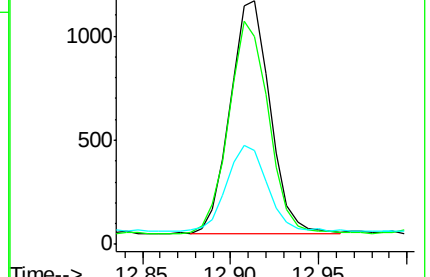
115 38.4 31.7 47.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.03 min Scan# 1002

Delta R.T. -0.03 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

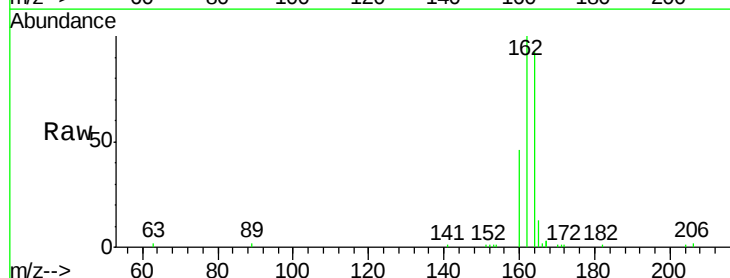
Tgt Ion:164 Resp: 7674

Ion Ratio Lower Upper

164 100

162 107.6 83.1 124.7

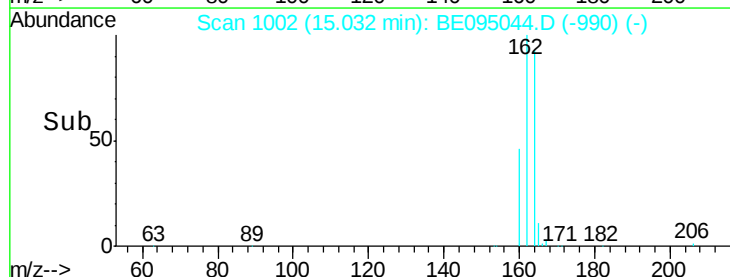
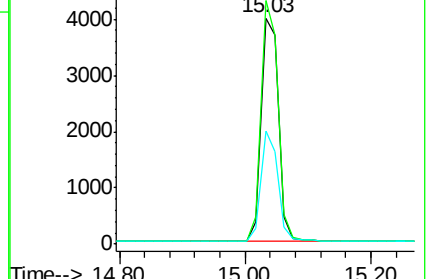
160 49.9 37.1 55.7

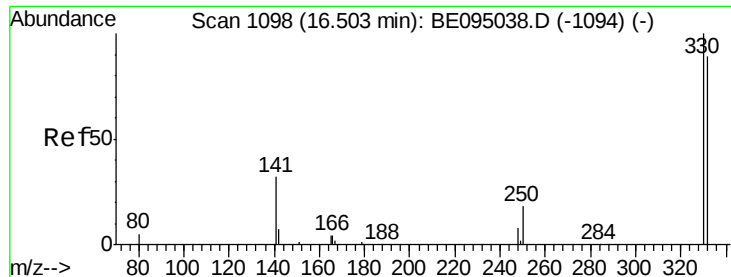


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#14

2,4,6-Tribromophenol

Concen: 0.452 ng

RT: 16.50 min Scan# 1098

Delta R.T. -0.03 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

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OUTFALL001-171219

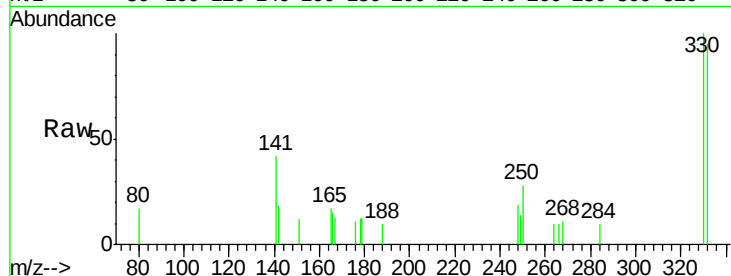
Tot Ion:330 Resp: 806

Ion Ratio Lower Upper

330 100

332 101.7 152.7 229.1#

141 45.8 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

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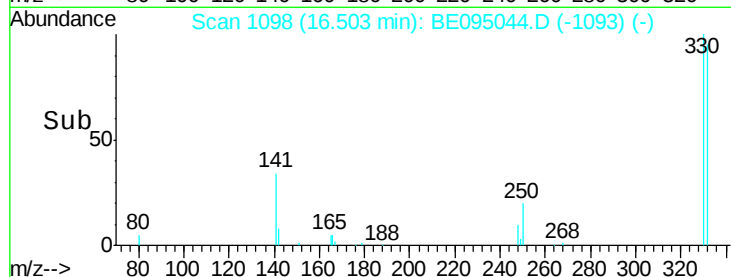
16.50

16.50

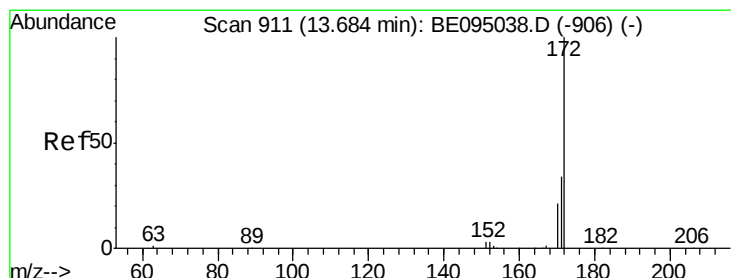
16.50

16.50

16.50



Time-->



#15

2-Fluorobiphenyl

Concen: 2.517 ng

RT: 13.68 min Scan# 911

Delta R.T. -0.01 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

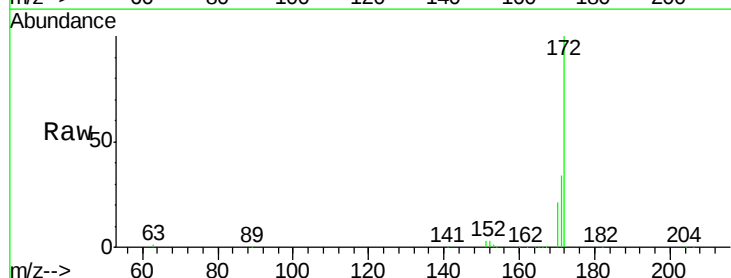
Tgt Ion:172 Resp: 85600

Ion Ratio Lower Upper

172 100

171 33.9 29.9 44.9

170 20.7 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

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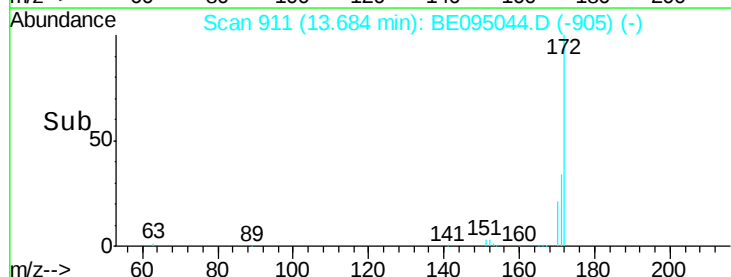
13.68

13.68

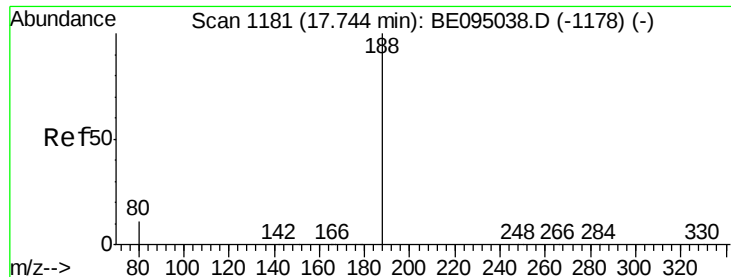
13.68

13.68

13.68



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.74 min Scan# 1181

Delta R.T. -0.03 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

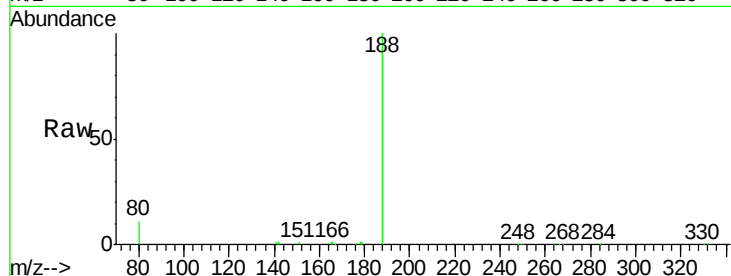
Tot Ion:188 Resp: 17698

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

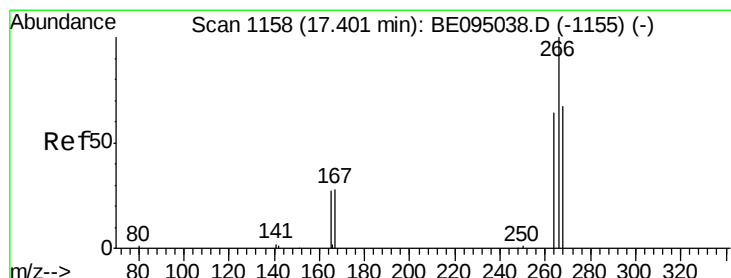
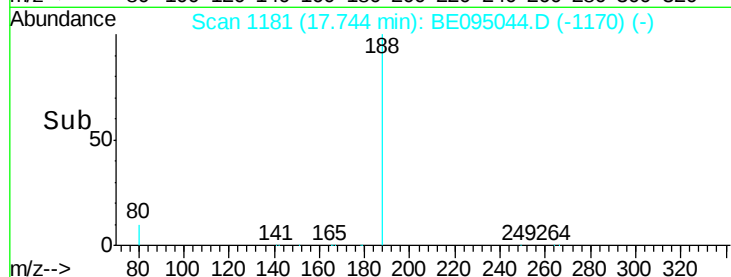
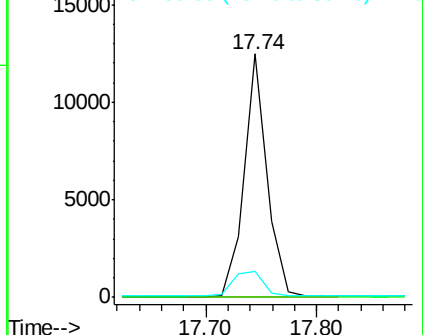
80 10.6 3.6 5.4#



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: 0.083 ng

RT: 17.39 min Scan# 1157

Delta R.T. -0.03 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

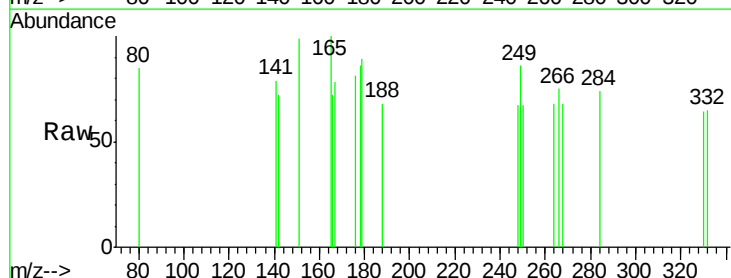
Tgt Ion:266 Resp: 10

Ion Ratio Lower Upper

266 100

264 90.7 72.5 108.7

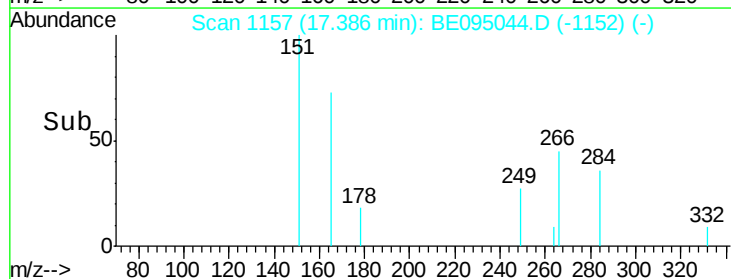
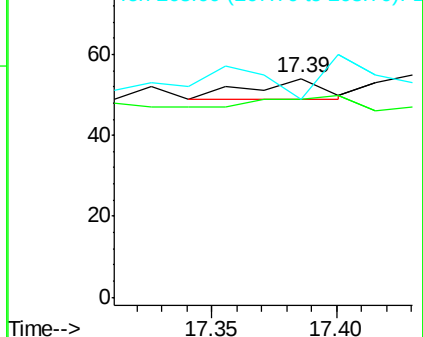
268 90.7 73.8 110.6

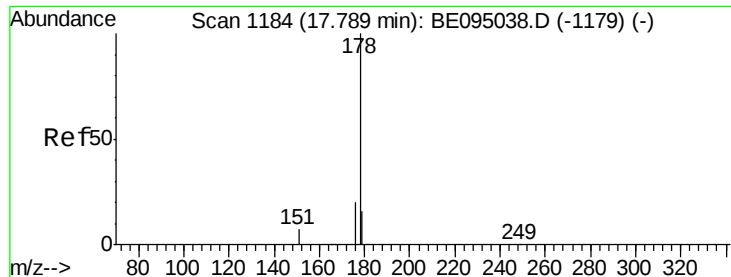


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.022 ng

RT: 17.79 min Scan# 1184

Delta R.T. -0.03 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

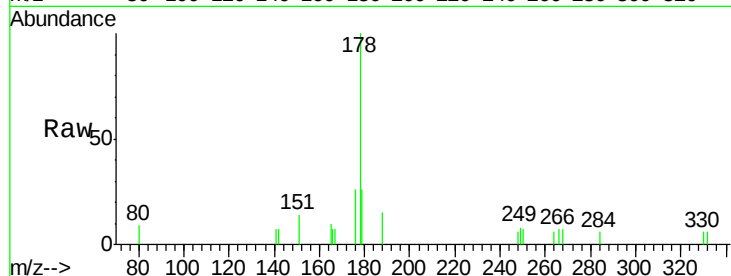
Tot Ion:178 Resp: 1236

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

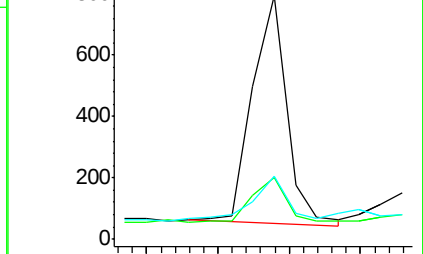
179 16.6 11.8 17.6



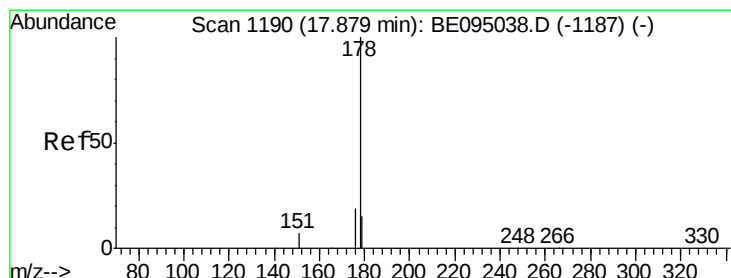
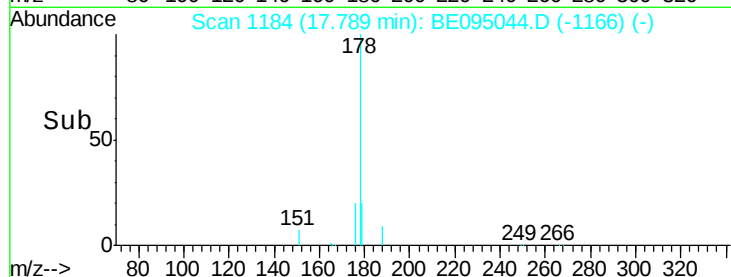
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#24

Anthracene

Concen: 0.022 ng

RT: 17.79 min Scan# 1184

Delta R.T. -0.12 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

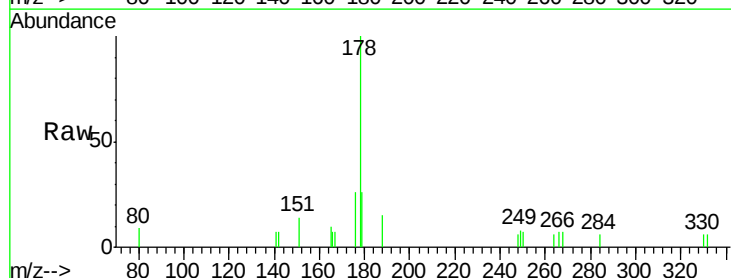
Tgt Ion:178 Resp: 1236

Ion Ratio Lower Upper

178 100

176 19.0 12.8 19.2

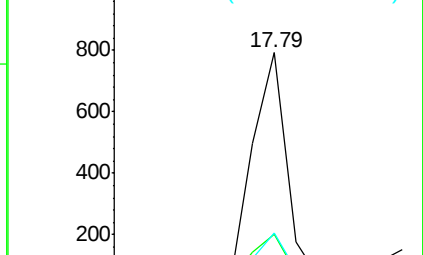
179 16.6 13.0 19.6



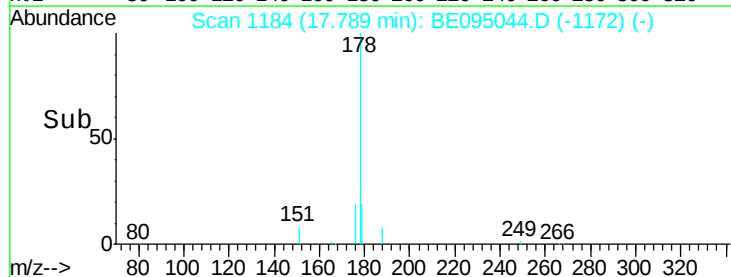
Abundance Ion 178.00 (177.70 to 178.70): E

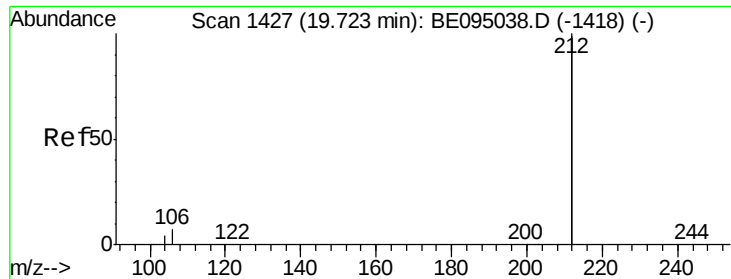
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->

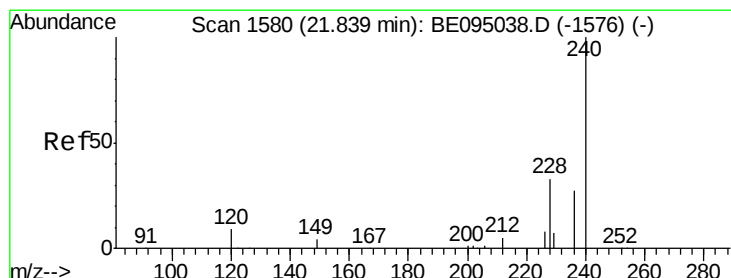
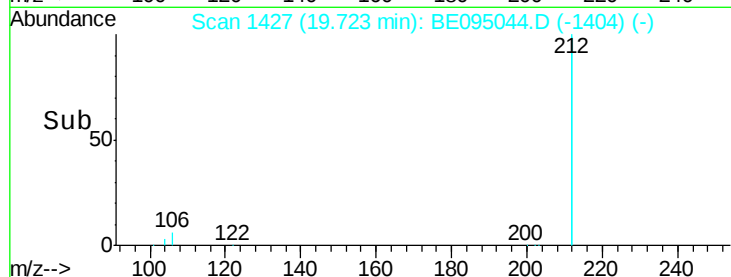
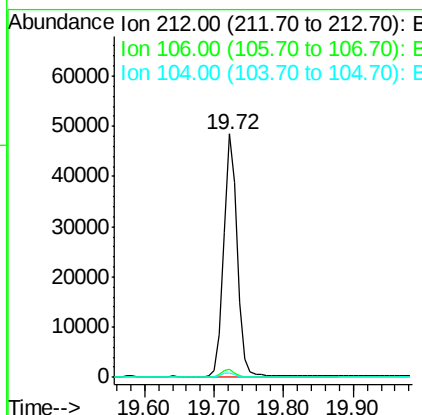
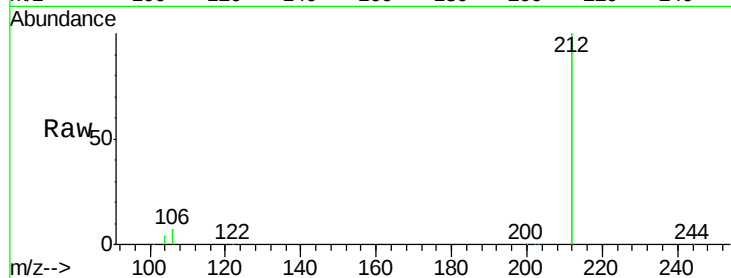




#25  
Fluoranthene-d10  
Concen: 0.283 ng  
RT: 19.72 min Scan# 1427  
Delta R.T. -0.03 min  
Lab File: BE095044.D  
Acq: 22 Dec 2017 14:05

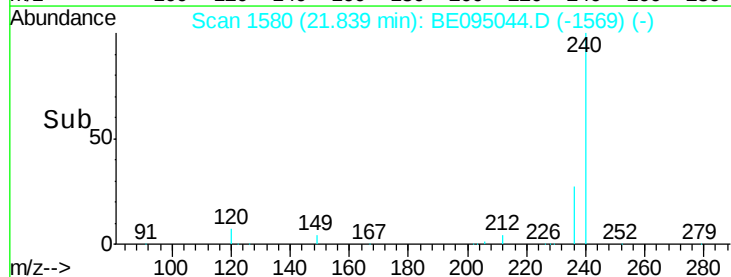
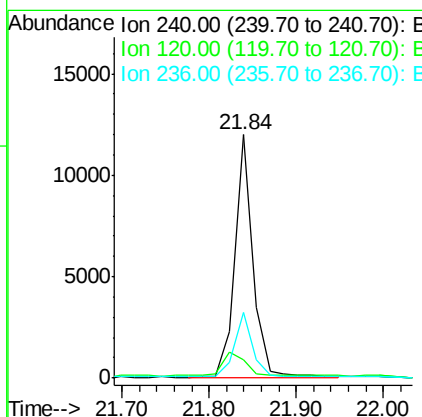
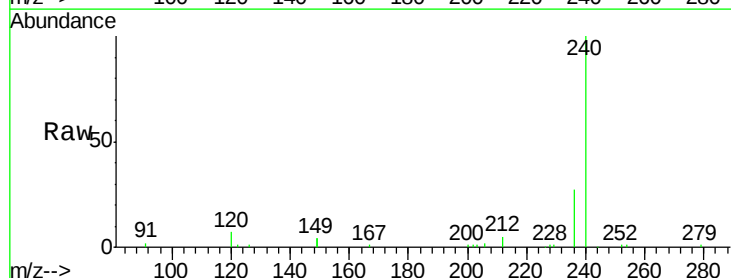
Instrument :  
BNA\_E  
ClientSampleId :  
OUTFALL001-171219

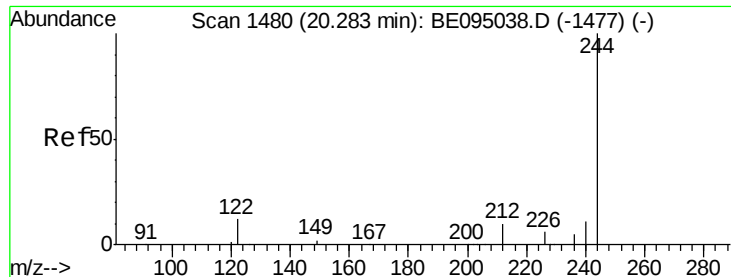
Tot Ion:212 Resp: 65040  
Ion Ratio Lower Upper  
212 100  
106 3.3 2.8 4.2  
104 1.8 1.6 2.4



#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.84 min Scan# 1580  
Delta R.T. -0.03 min  
Lab File: BE095044.D  
Acq: 22 Dec 2017 14:05

Tgt Ion:240 Resp: 17130  
Ion Ratio Lower Upper  
240 100  
120 7.4 5.5 8.3  
236 27.1 20.7 31.1





#29

Terphenyl-d14

Concen: 5.794 ng

RT: 20.28 min Scan# 1480

Delta R.T. -0.03 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

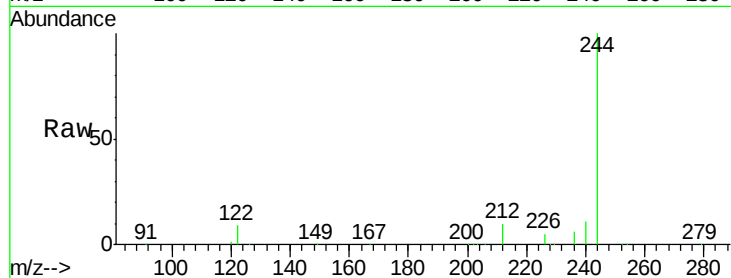
Tot Ion:244 Resp: 186836

Ion Ratio Lower Upper

244 100

212 9.6 25.4 38.0#

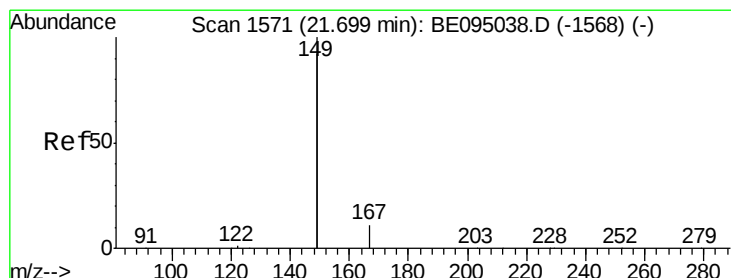
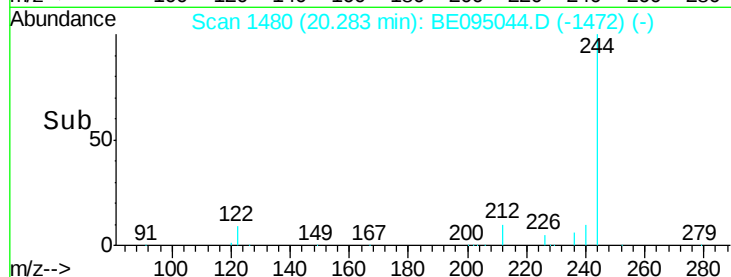
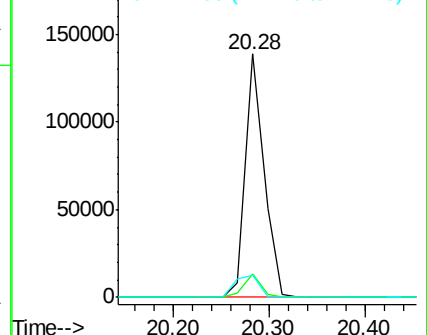
122 9.0 8.1 12.1



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: 0.079 ng

RT: 21.70 min Scan# 1571

Delta R.T. -0.05 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

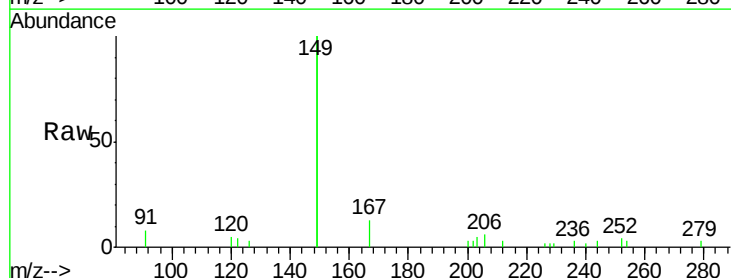
Tgt Ion:149 Resp: 5037

Ion Ratio Lower Upper

149 100

167 6.8 5.4 8.0

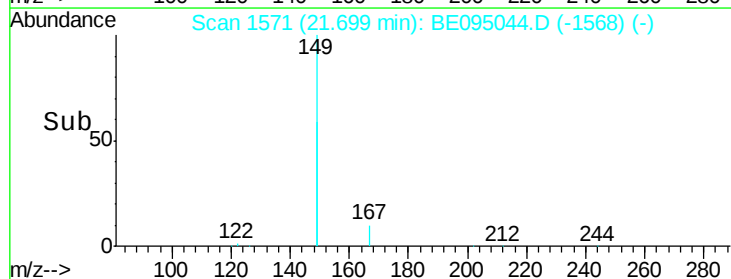
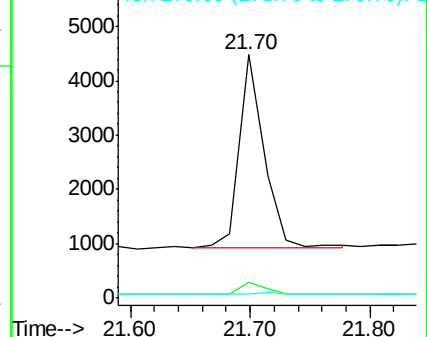
279 0.9 0.7 1.1

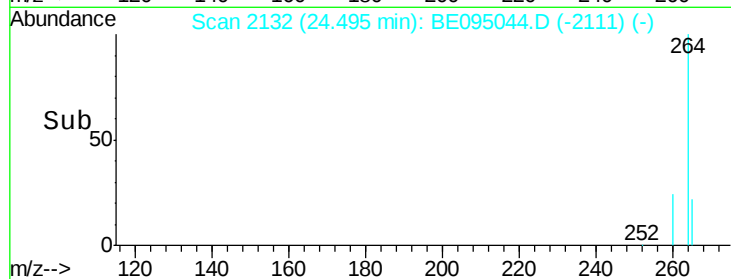
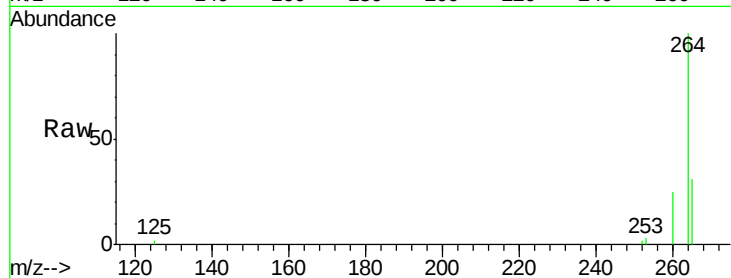
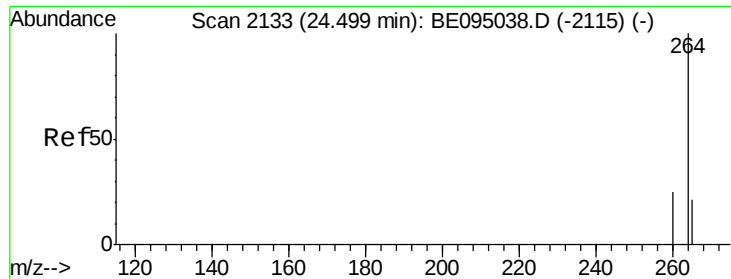


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34

Pervlene-d12

Concen: 0.400 ng

RT: 24.49 min Scan# 2132

Delta R.T. -0.05 min

Lab File: BE095044.D

Acq: 22 Dec 2017 14:05

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-171219

Tot Ion: 264 Resp: 14371

Ion Ratio Lower Upper

264 100

260 24.9 20.5 30.7

265 30.5 22.8 34.2

