

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072418\  
 Data File : BE097090.D  
 Acq On : 25 Jul 2018 3:12  
 Operator : SJ/JU  
 Sample : J4073-11DL 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 25 07:39:46 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE072418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 24 13:24:10 2018  
 Response via : Initial Calibration

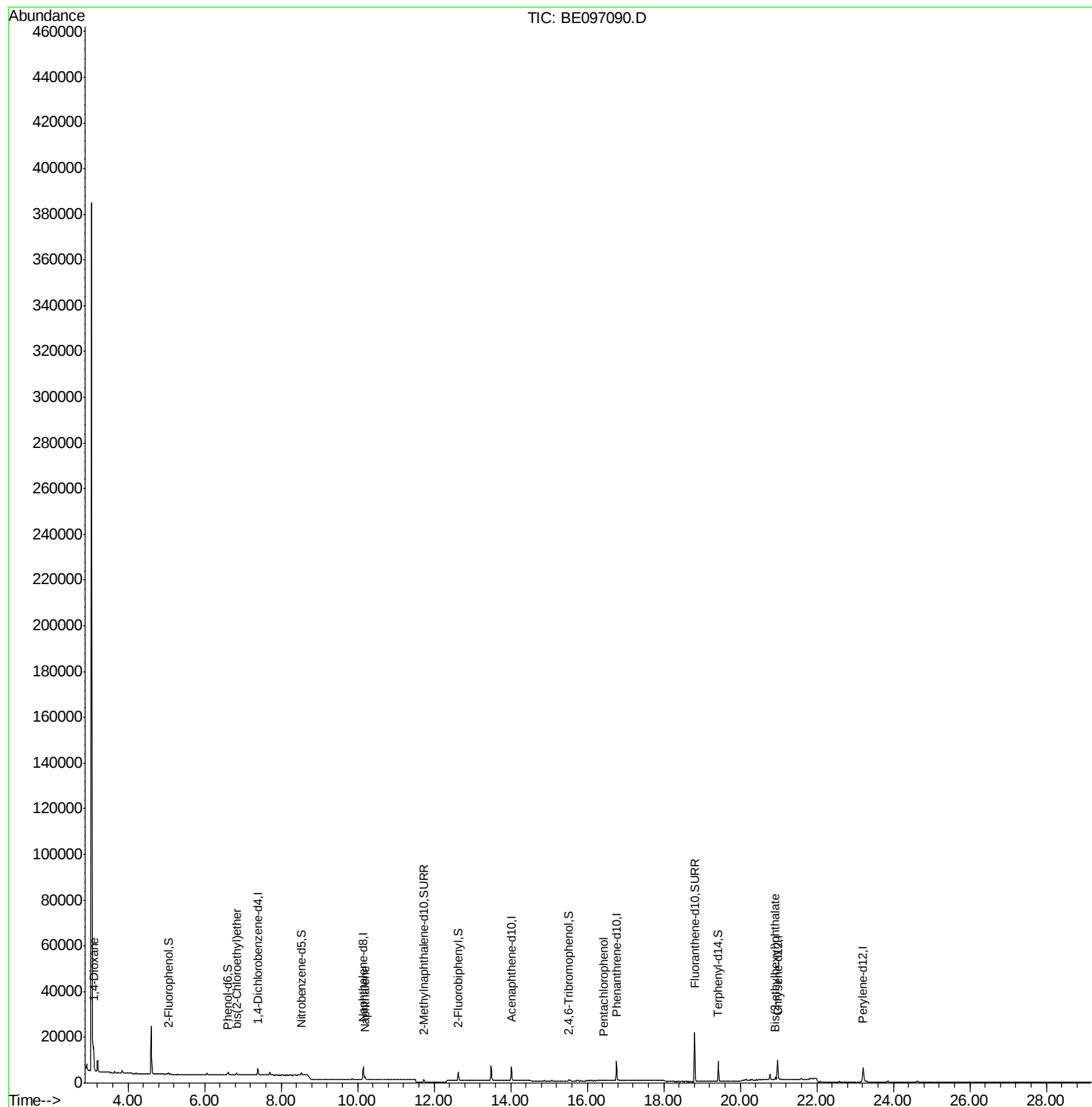
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.39  | 152  | 1231     | 0.40  | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.15 | 136  | 5949     | 0.40  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.02 | 164  | 3583     | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 16.77 | 188  | 11094    | 0.40  | ng    | 0.00     |
| 27) Chrysene-d12               | 20.98 | 240  | 10024    | 0.40  | ng    | 0.00     |
| 34) Perylene-d12               | 23.21 | 264  | 9761     | 0.40  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.05  | 112  | 379      | 0.11  | ng    | 0.00     |
| 5) Phenol-d6                   | 6.60  | 99   | 354      | 0.07  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.53  | 82   | 1222     | 0.24  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 11.73 | 152  | 2039     | 0.23  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.52 | 330  | 313      | 0.27  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 12.63 | 172  | 3430     | 0.28  | ng    | 0.00     |
| 25) Fluoranthene-d10           | 18.81 | 212  | 29300    | 0.26  | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.42 | 244  | 8090     | 0.42  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.09  | 88   | 4199     | 2.147 | ng    | 91       |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 408      | 0.088 | ng    | # 62     |
| 9) Naphthalene                 | 10.20 | 128  | 2059     | 0.039 | ng    | # 89     |
| 22) Pentachlorophenol          | 16.44 | 266  | 23       | 0.051 | ng    | 96       |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149  | 1309     | 0.040 | ng    | # 96     |

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

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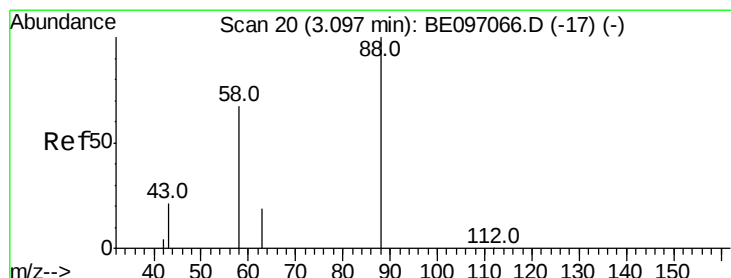
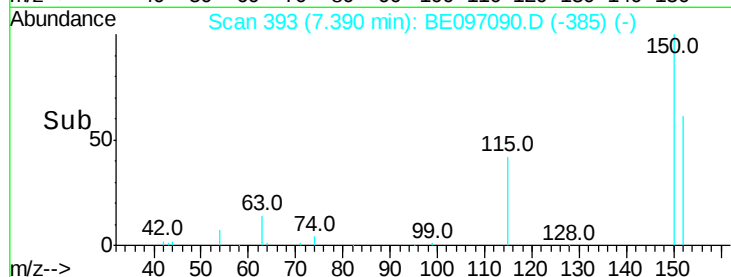
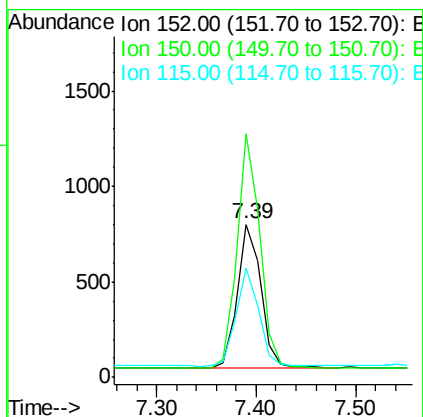
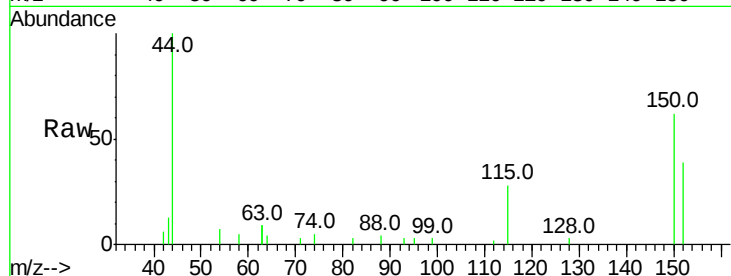


#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.39 min Scan# 393  
Delta R.T. -0.00 min  
Lab File: BE097090.D  
Acq: 25 Jul 2018 3:12

Instrument :  
BNA\_E  
ClientSampleId :

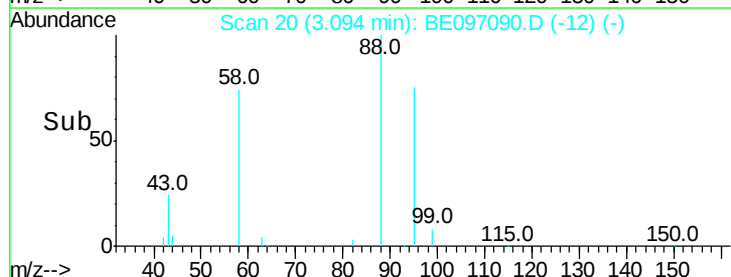
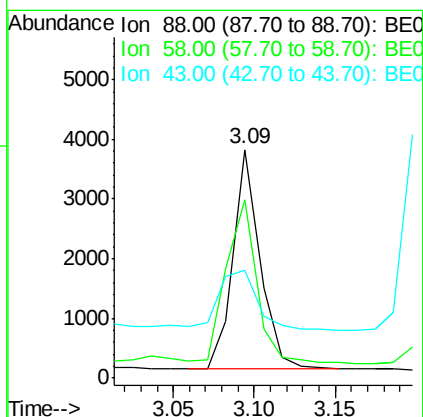
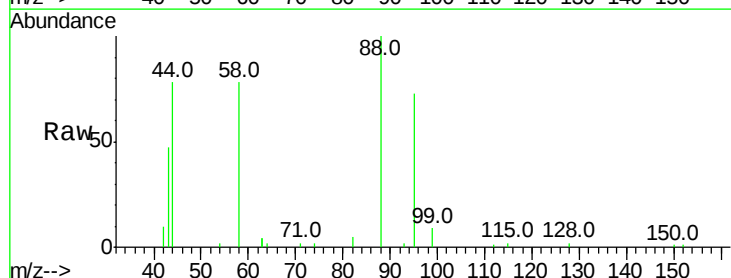
Tot Ion:152 Resp: 1231  
Ion Ratio Lower Upper  
152 100  
150 159.4 117.2 175.8  
115 71.8 57.0 85.6

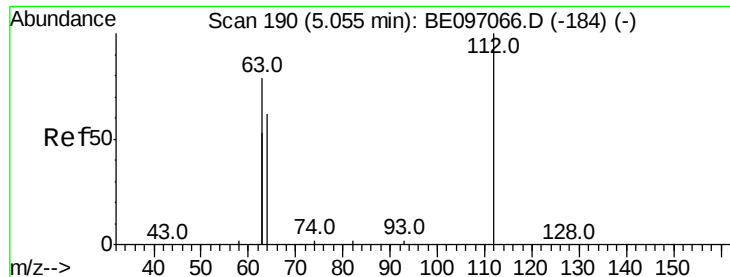


#2

1,4-Dioxane  
Concen: 2.147 ng  
RT: 3.09 min Scan# 20  
Delta R.T. -0.00 min  
Lab File: BE097090.D  
Acq: 25 Jul 2018 3:12

Tgt Ion: 88 Resp: 4199  
Ion Ratio Lower Upper  
88 100  
58 83.6 63.2 94.8  
43 41.4 41.2 61.8





#4

2-Fluorophenol

Concen: 0.110 ng

RT: 5.05 min Scan# 190

Delta R.T. -0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Instrument :

BNA\_E

ClientSampleId :

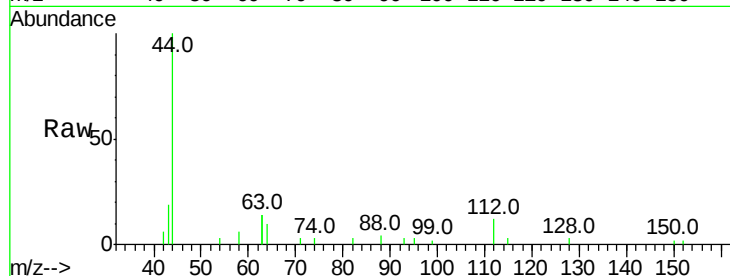
Tot Ion:112 Resp: 379

Ion Ratio Lower Upper

112 100

64 70.2 60.1 90.1

63 148.0 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

800

600

400

200

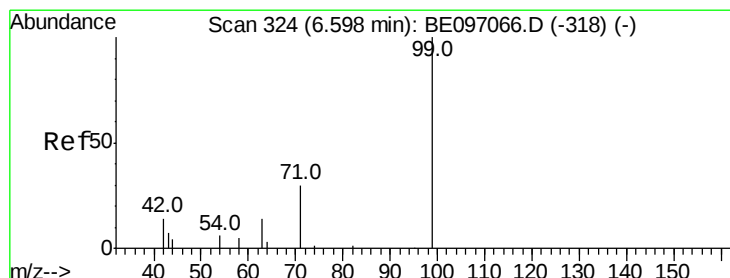
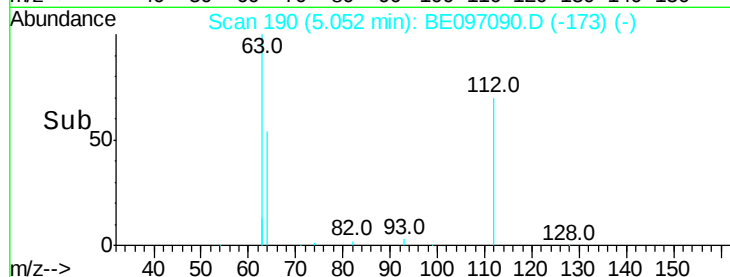
0

5.05

5.10

5.20

Time-->



#5

Phenol-d6

Concen: 0.070 ng

RT: 6.60 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

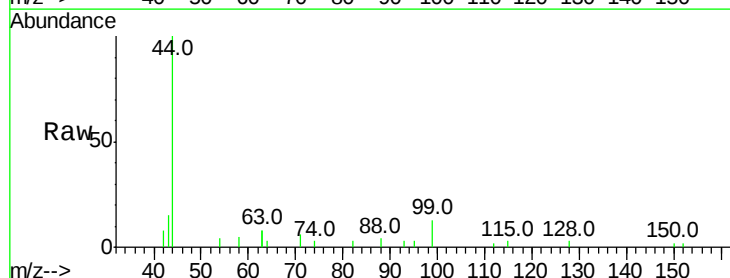
Tgt Ion: 99 Resp: 354

Ion Ratio Lower Upper

99 100

42 39.5 20.2 30.2#

71 39.0 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

300

200

100

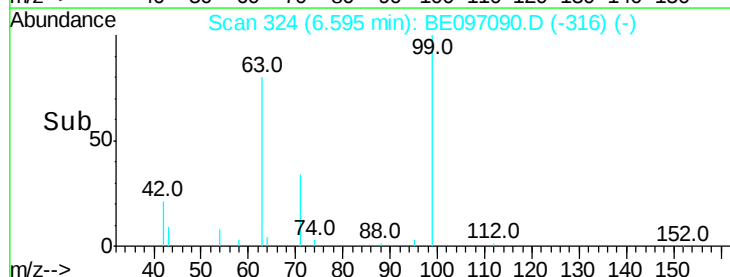
0

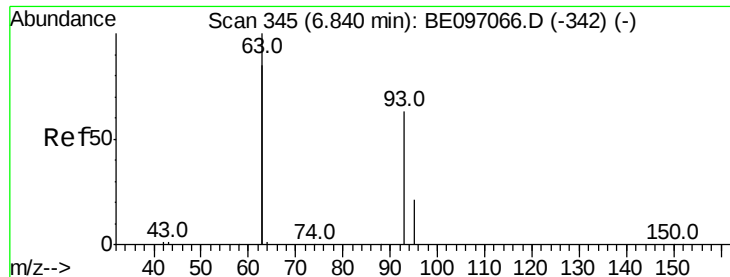
6.60

6.55

6.65

Time-->





#6

bis(2-Chloroethyl)ether

Concen: 0.088 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Instrument :

BNA\_E

ClientSampleId :

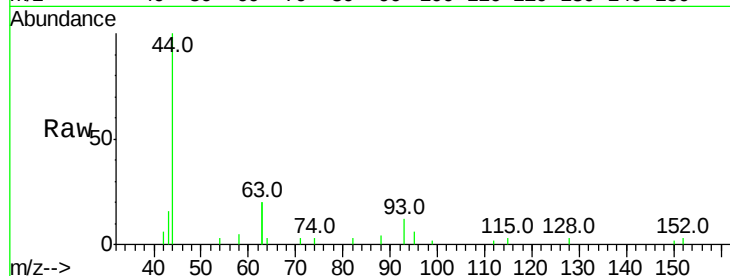
Tot Ion: 93 Resp: 408

Ion Ratio Lower Upper

93 100

63 257.8 275.3 412.9#

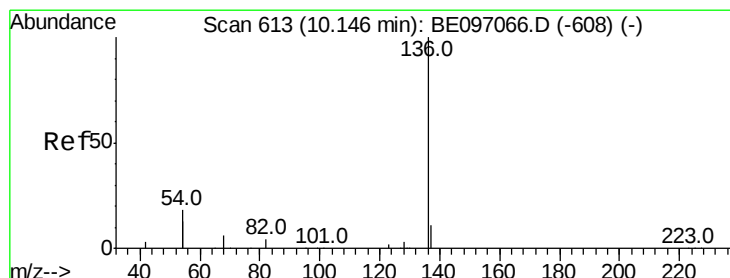
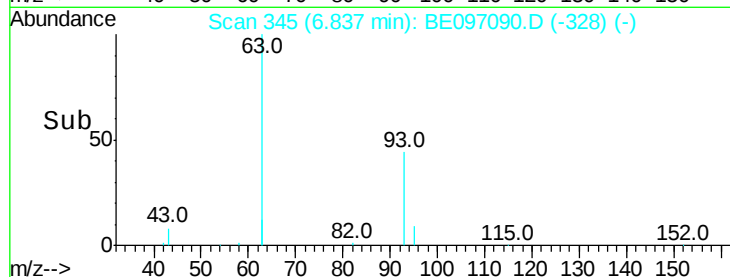
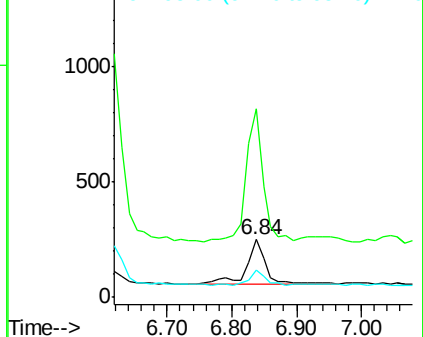
95 25.0 25.2 37.8#



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. -0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Tgt Ion: 136 Resp: 5949

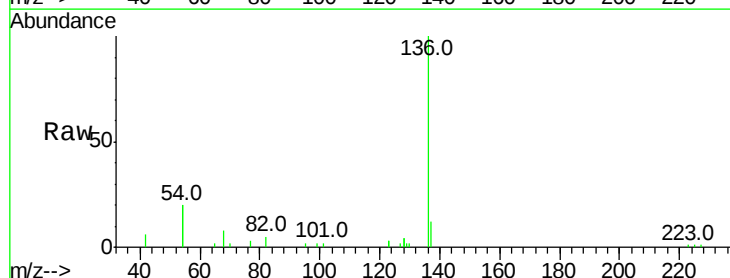
Ion Ratio Lower Upper

136 100

137 12.3 9.5 14.3

54 39.7 29.1 43.7

68 7.8 6.2 9.2

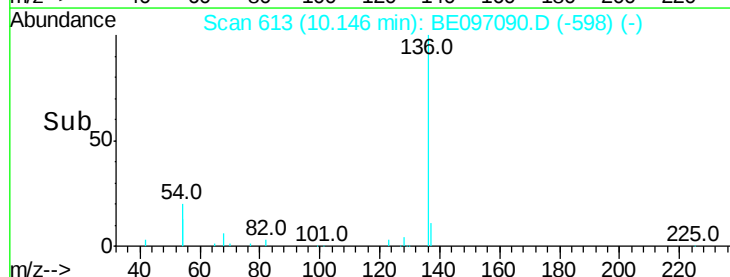
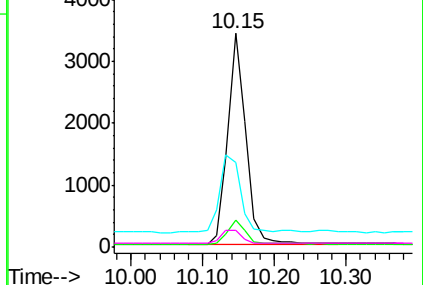


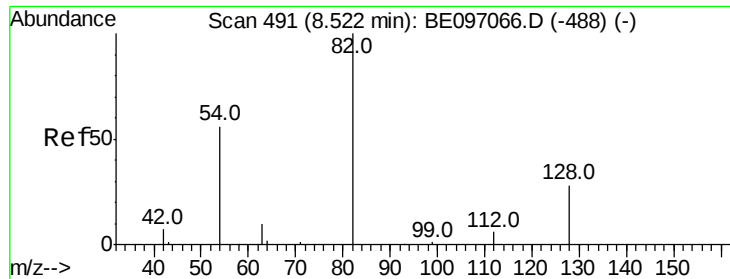
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.236 ng

RT: 8.53 min Scan# 492

Delta R.T. 0.01 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Instrument :

BNA\_E

ClientSampleId :

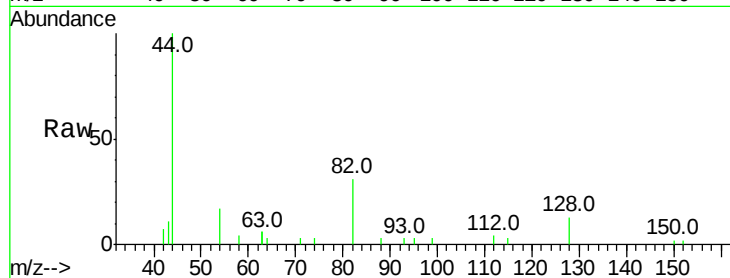
Tot Ion: 82 Resp: 1222

Ion Ratio Lower Upper

82 100

128 40.2 24.0 36.0#

54 53.2 40.0 60.0



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

8.53

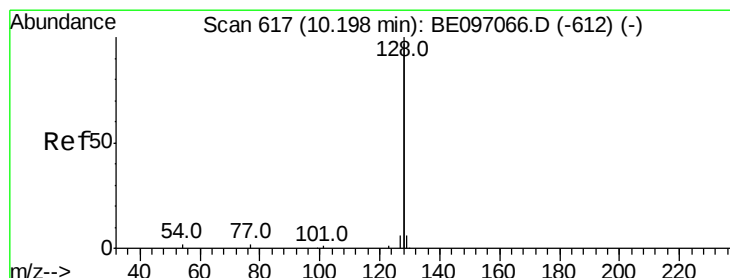
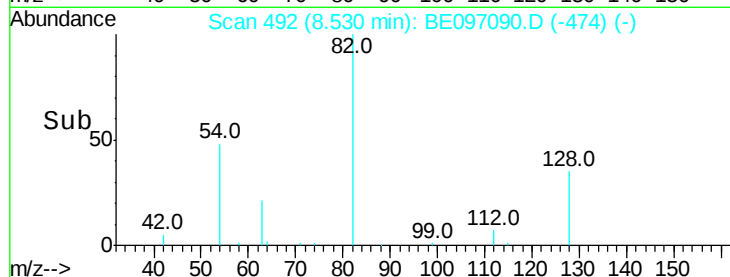
600

400

200

0

Time-->



#9

Naphthalene

Concen: 0.039 ng

RT: 10.20 min Scan# 617

Delta R.T. -0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

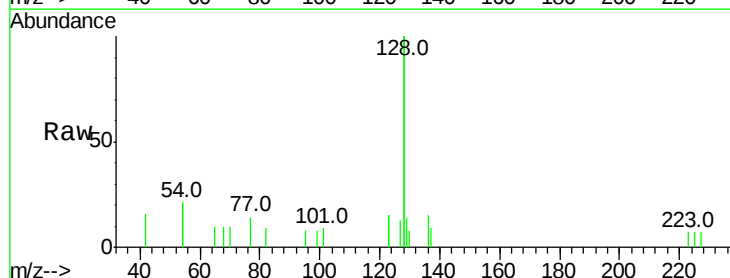
Tgt Ion: 128 Resp: 2059

Ion Ratio Lower Upper

128 100

129 7.1 2.6 3.8#

127 6.6 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.20

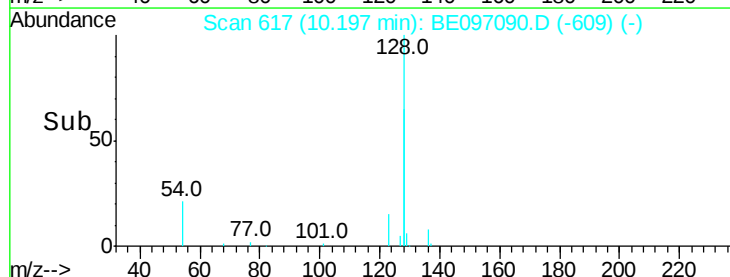
1500

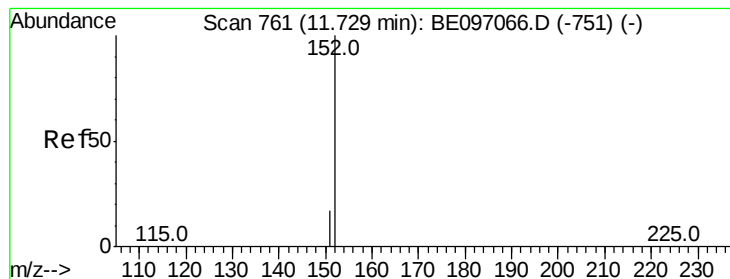
1000

500

0

Time-->

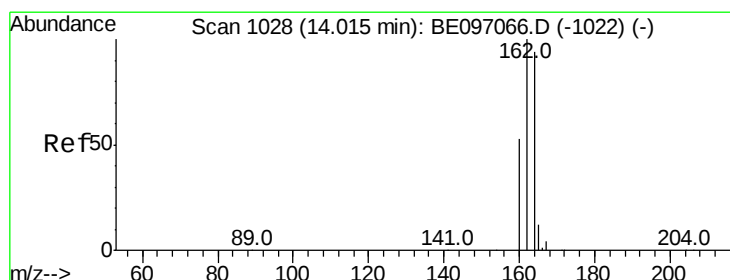
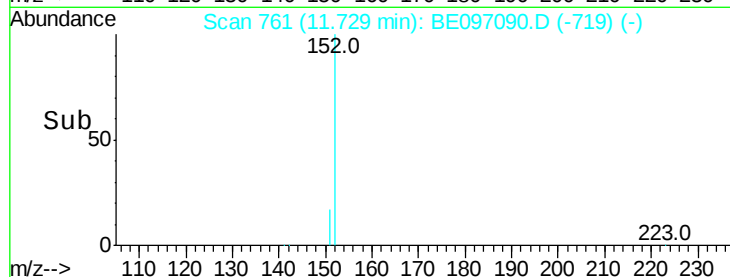
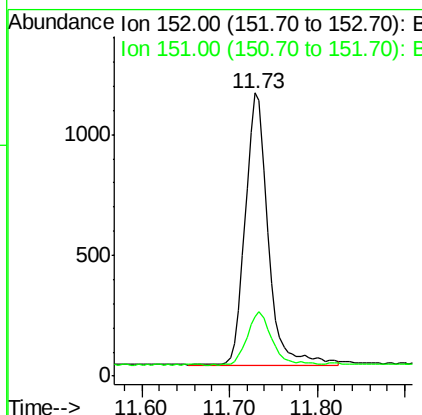
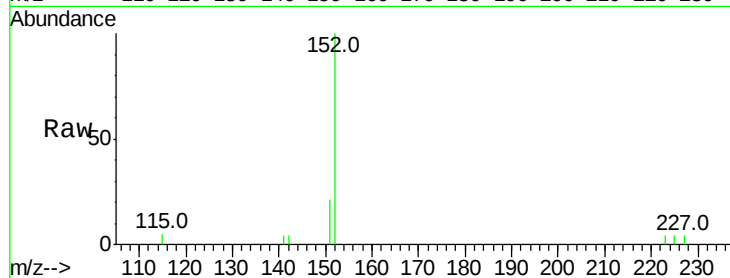




#11  
2-Methylnaphthalene-d10  
Concen: 0.229 ng  
RT: 11.73 min Scan# 761  
Delta R.T. 0.00 min  
Lab File: BE097090.D  
Acq: 25 Jul 2018 3:12

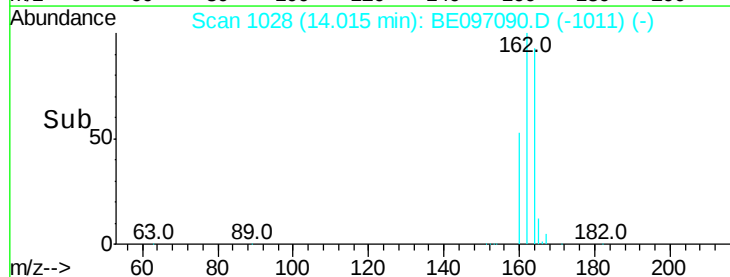
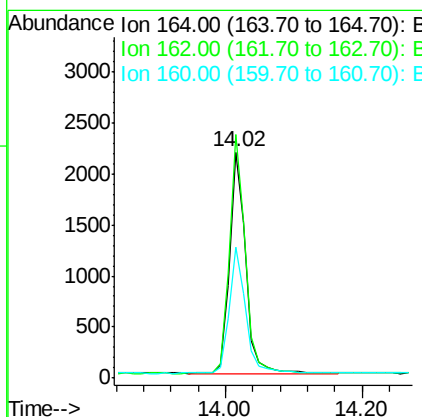
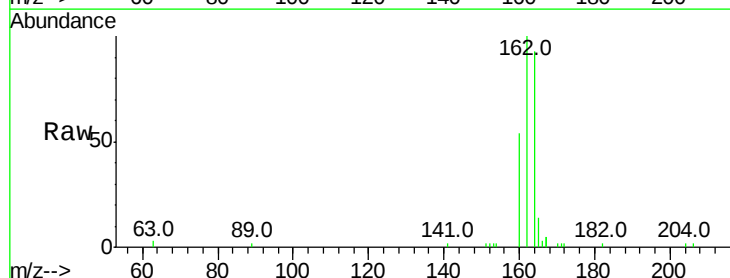
Instrument :  
BNA\_E  
ClientSampled :

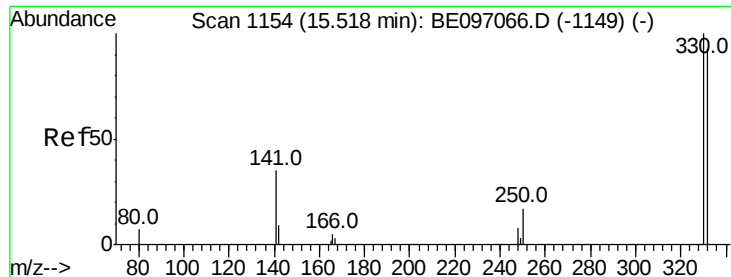
Tot Ion:152 Resp: 2039  
Ion Ratio Lower Upper  
152 100  
151 21.0 15.4 23.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.02 min Scan# 1028  
Delta R.T. 0.00 min  
Lab File: BE097090.D  
Acq: 25 Jul 2018 3:12

Tgt Ion:164 Resp: 3583  
Ion Ratio Lower Upper  
164 100  
162 107.7 83.1 124.7  
160 57.7 37.1 55.7#

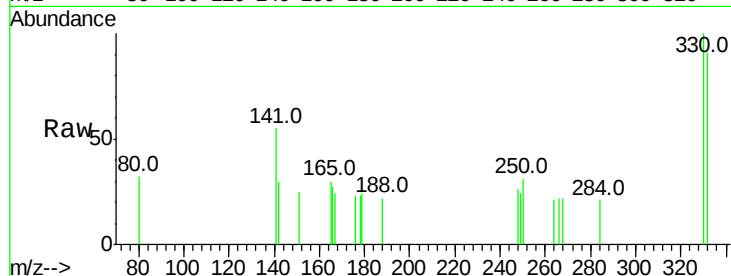




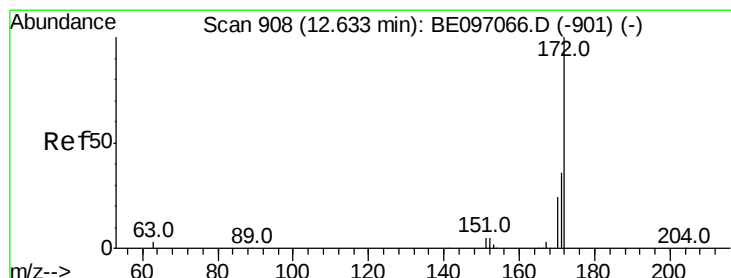
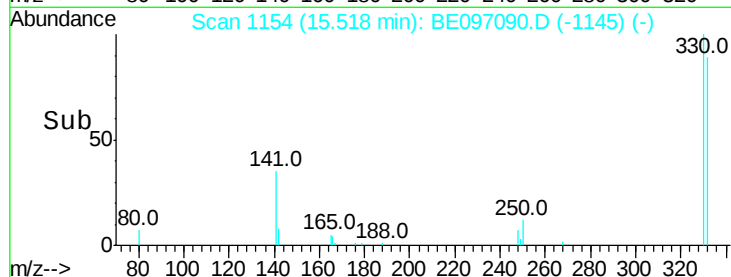
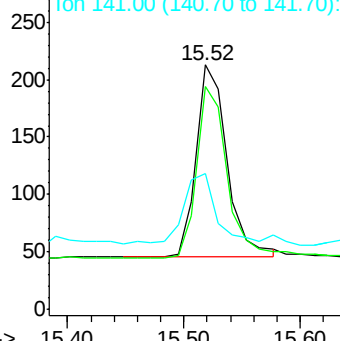
#14  
 2,4,6-Tribromophenol  
 Concen: 0.265 ng  
 RT: 15.52 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: BE097090.D  
 Acq: 25 Jul 2018 3:12

Instrument :  
 BNA\_E  
 ClientSampled :

Tot Ion:330 Resp: 313  
 Ion Ratio Lower Upper  
 330 100  
 332 87.9 152.7 229.1#  
 141 37.7 33.7 50.5

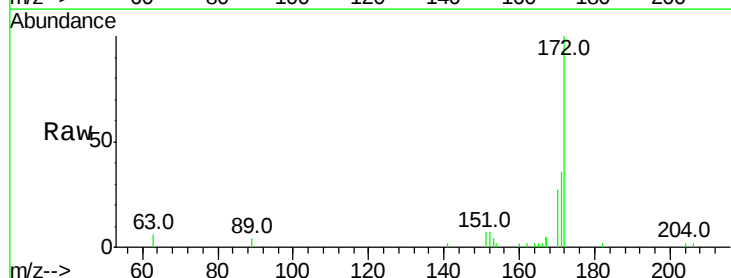


Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

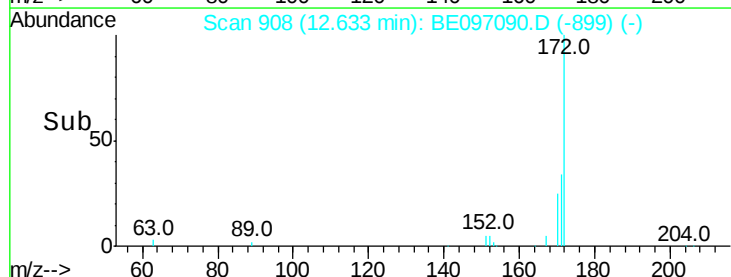
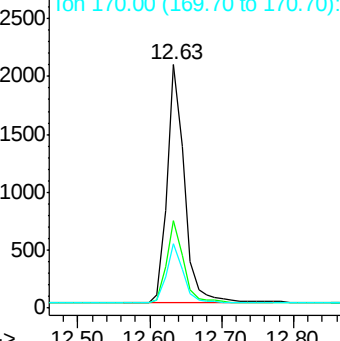


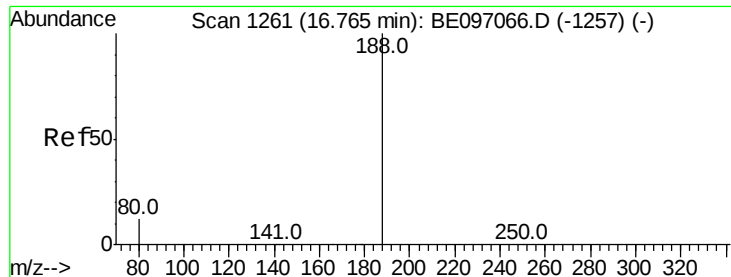
#15  
 2-Fluorobiphenyl  
 Concen: 0.277 ng  
 RT: 12.63 min Scan# 908  
 Delta R.T. 0.00 min  
 Lab File: BE097090.D  
 Acq: 25 Jul 2018 3:12

Tgt Ion:172 Resp: 3430  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.9 44.9  
 170 26.5 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: 16.77 min Scan# 1261

Delta R.T. 0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Instrument :

BNA\_E

ClientSampled :

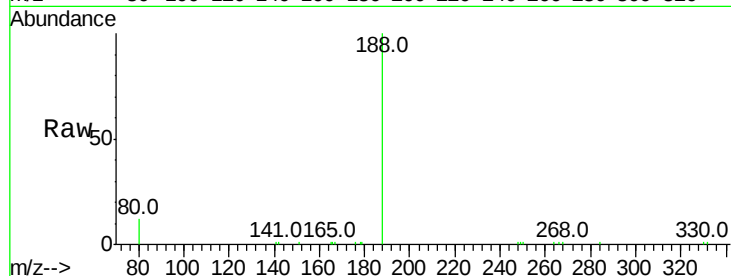
Tot Ion:188 Resp: 11094

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

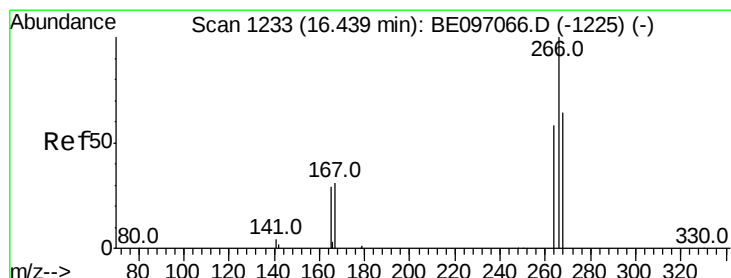
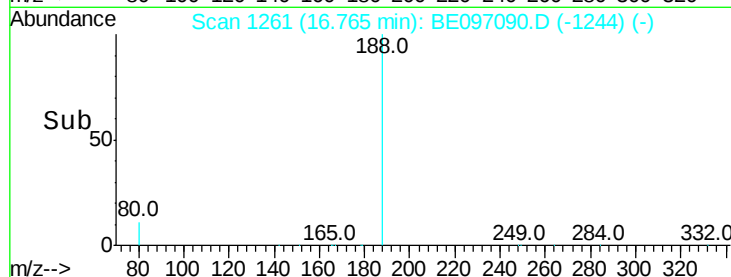
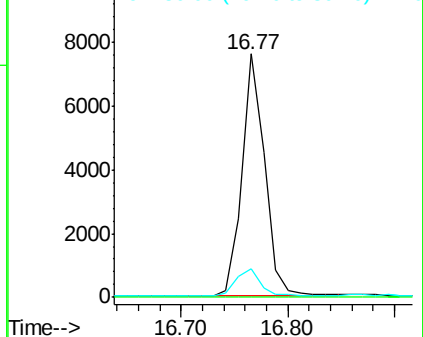
80 11.6 3.6 5.4#



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: 0.051 ng

RT: 16.44 min Scan# 1233

Delta R.T. 0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

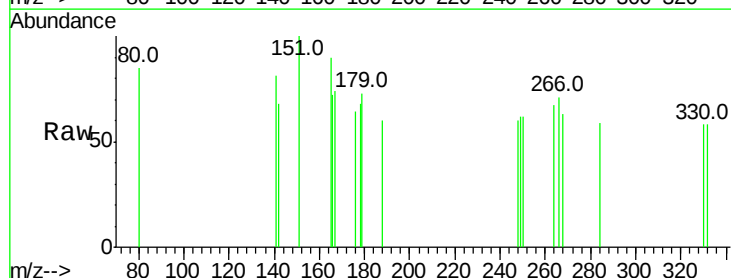
Tgt Ion:266 Resp: 23

Ion Ratio Lower Upper

266 100

264 94.5 72.5 108.7

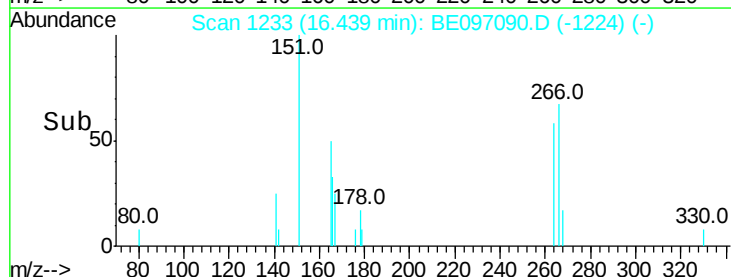
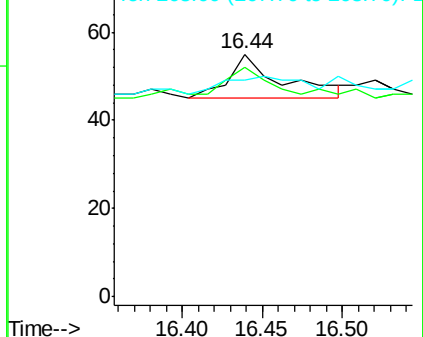
268 89.1 73.8 110.6

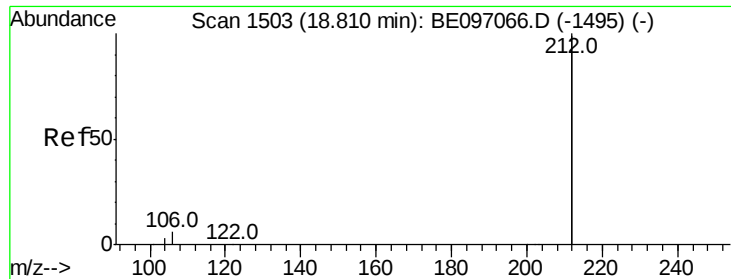


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Fluoranthene-d10

Concen: 0.264 ng

RT: 18.81 min Scan# 1503

Delta R.T. -0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Instrument :

BNA\_E

ClientSampled :

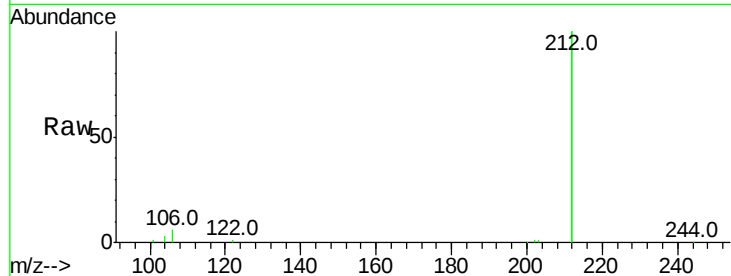
Tot Ion:212 Resp: 29300

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

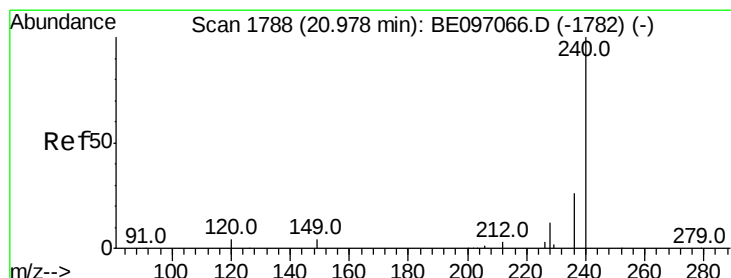
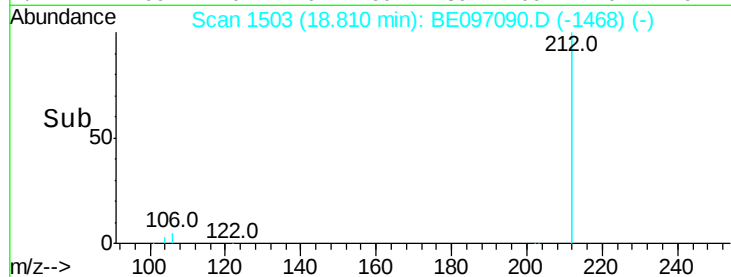
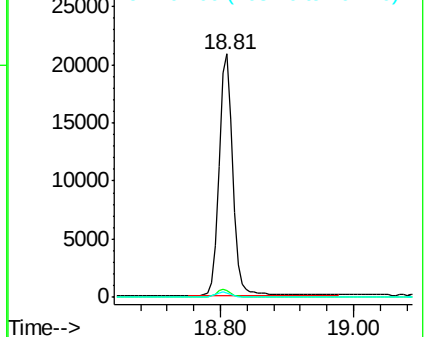
104 1.8 1.6 2.4



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.98 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

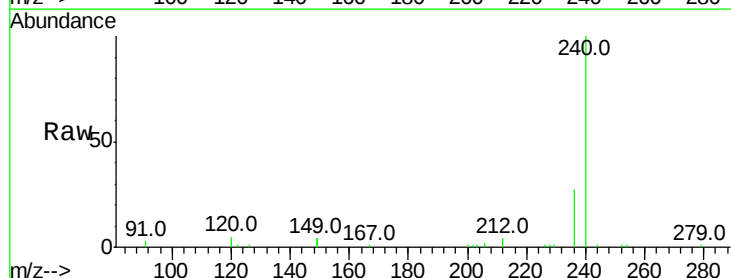
Tgt Ion:240 Resp: 10024

Ion Ratio Lower Upper

240 100

120 4.9 5.5 8.3#

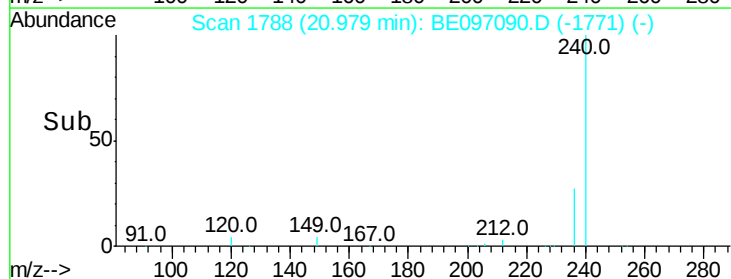
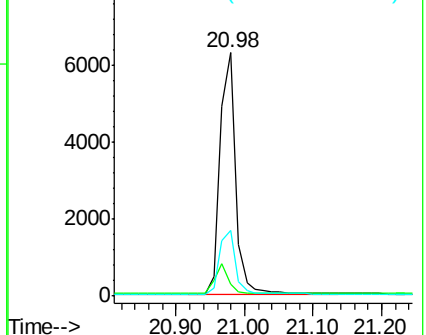
236 27.2 20.7 31.1

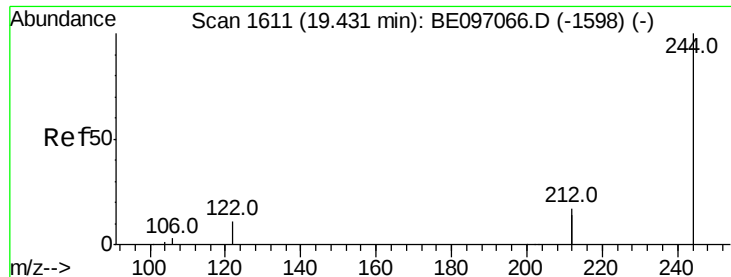


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.420 ng

RT: 19.42 min Scan# 1610

Delta R.T. -0.01 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Instrument :

BNA\_E

ClientSampleId :

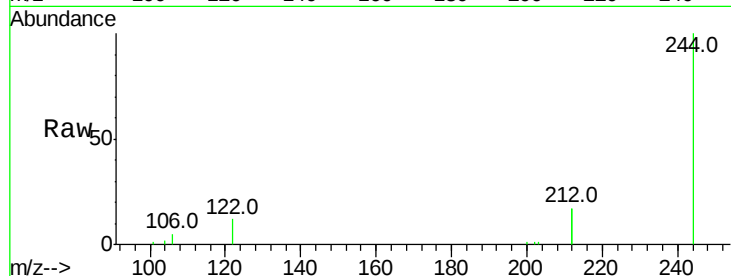
Tot Ion:244 Resp: 8090

Ion Ratio Lower Upper

244 100

212 33.8 25.4 38.0

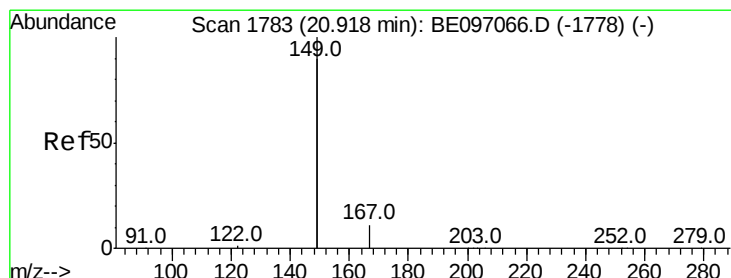
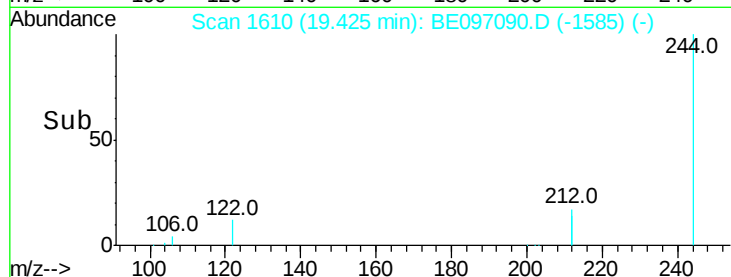
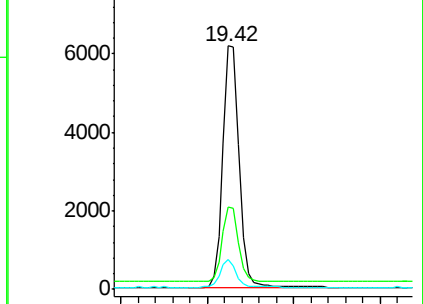
122 12.4 8.1 12.1#



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: 0.040 ng

RT: 20.92 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

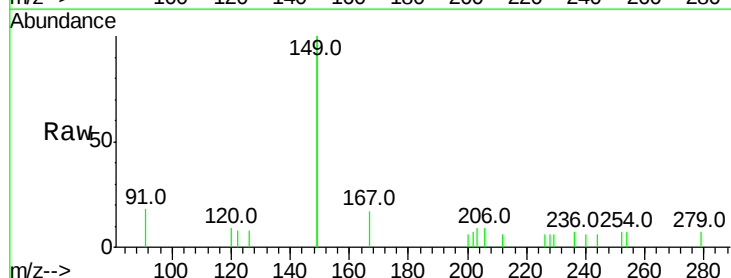
Tgt Ion:149 Resp: 1309

Ion Ratio Lower Upper

149 100

167 8.2 5.4 8.0#

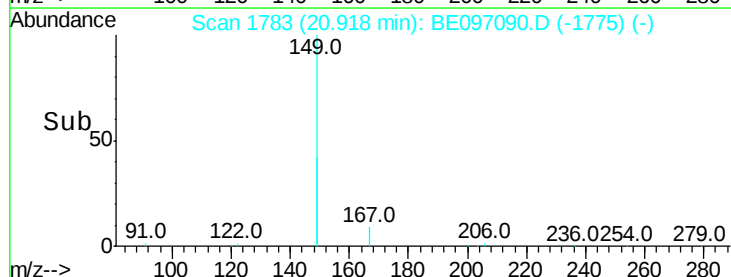
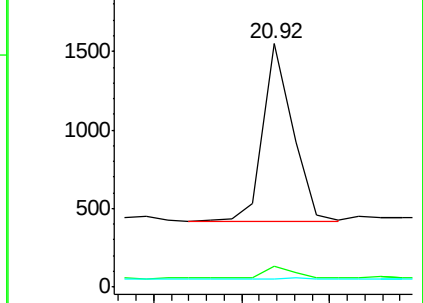
279 1.3 0.7 1.1#

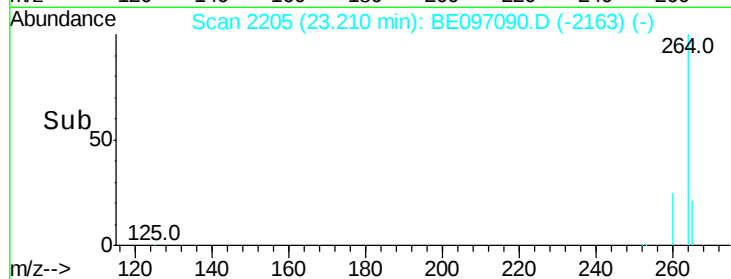
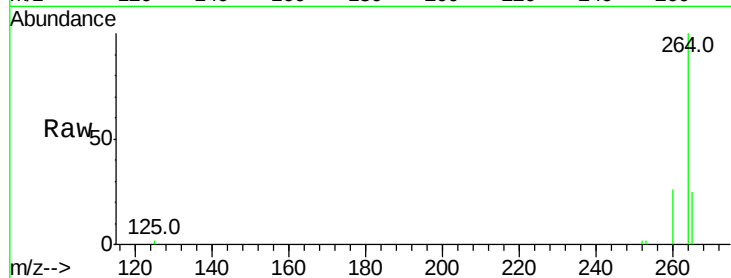
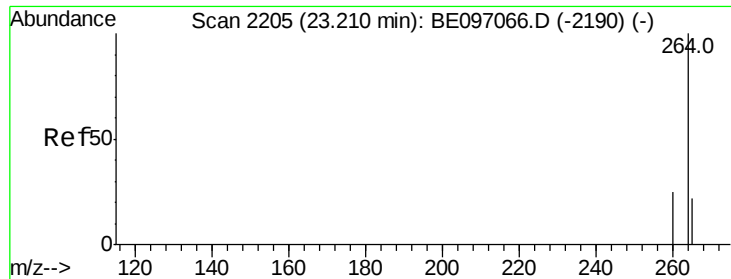


Abundance Ion 149.00 (148.70 to 149.70): E

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: 23.21 min Scan# 2205

Delta R.T. 0.00 min

Lab File: BE097090.D

Acq: 25 Jul 2018 3:12

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:264 Resp: 9761

Ion Ratio Lower Upper

264 100

260 26.3 20.5 30.7

265 25.4 22.8 34.2

