

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE100418\  
 Data File : BE097738.D  
 Acq On : 4 Oct 2018 22:56  
 Operator : SJ/JU  
 Sample : J5189-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 TT-101D-20180928

Quant Time: Oct 05 06:52:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE100318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 03 12:17:19 2018  
 Response via : Initial Calibration

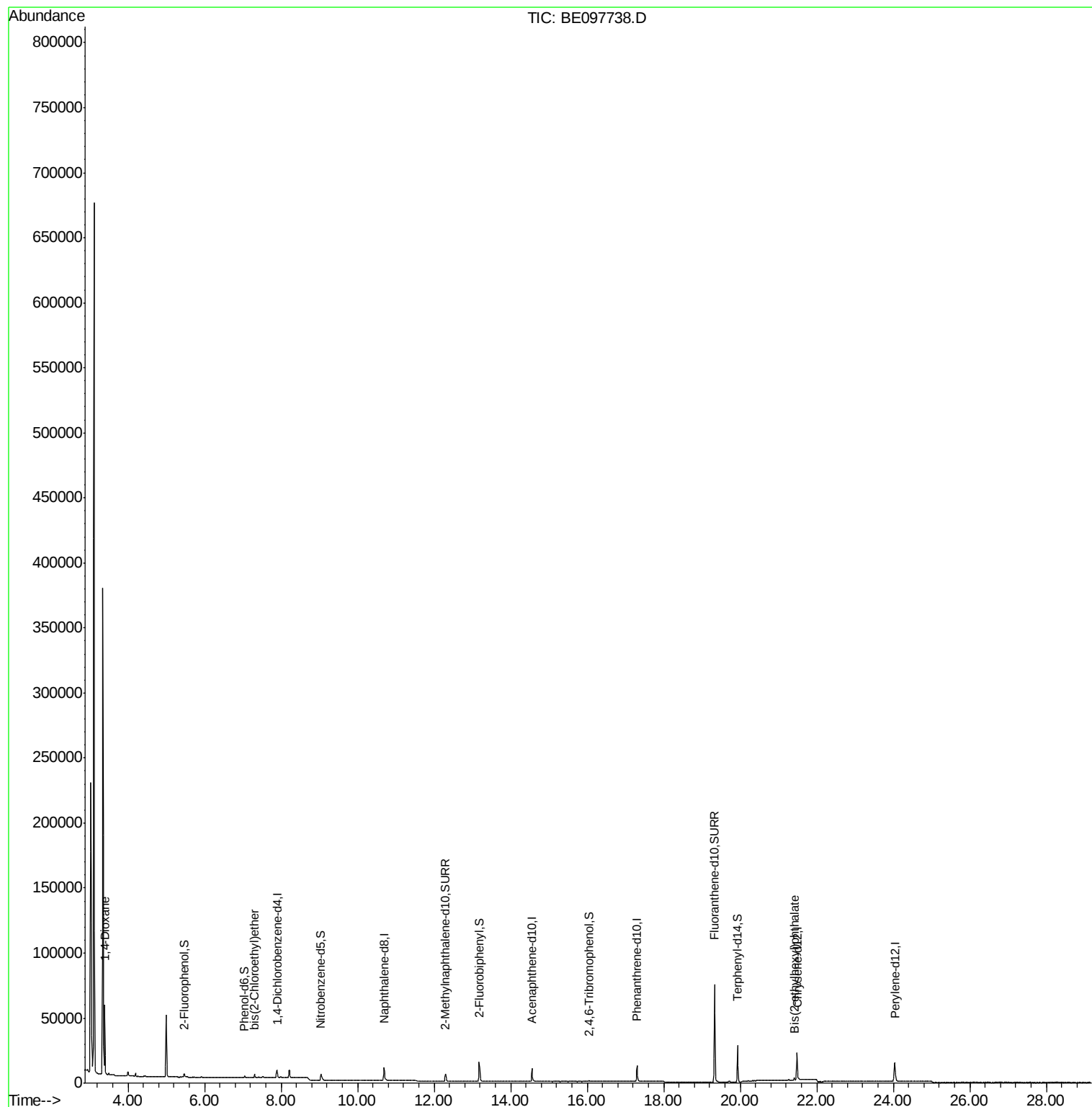
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.90  | 152  | 3165     | 0.40  | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.69 | 136  | 12210    | 0.40  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.56 | 164  | 6545     | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.30 | 188  | 18733    | 0.40  | ng    | 0.00     |
| 27) Chrysene-d12               | 21.49 | 240  | 24466    | 0.40  | ng    | 0.00     |
| 34) Perylene-d12               | 24.04 | 264  | 22715    | 0.40  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.47  | 112  | 1515     | 0.20  | ng    | 0.00     |
| 5) Phenol-d6                   | 7.04  | 99   | 1124     | 0.10  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 9.04  | 82   | 2754     | 0.69  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.30 | 152  | 7697     | 0.40  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 16.04 | 330  | 567      | 0.48  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.18 | 172  | 16907    | 0.59  | ng    | -0.01    |
| 25) Fluoranthene-d10           | 19.33 | 212  | 107092   | 0.45  | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.93 | 244  | 24156    | 0.48  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 3.39  | 88   | 28553    | 4.528 | ng    | 96       |
| 6) bis(2-Chloroethyl)ether     | 7.31  | 93   | 959      | 0.081 | ng    | 92       |
| 32) Bis(2-ethylhexyl)phthalate | 21.41 | 149  | 2403     | 0.050 | ng    | # 97     |

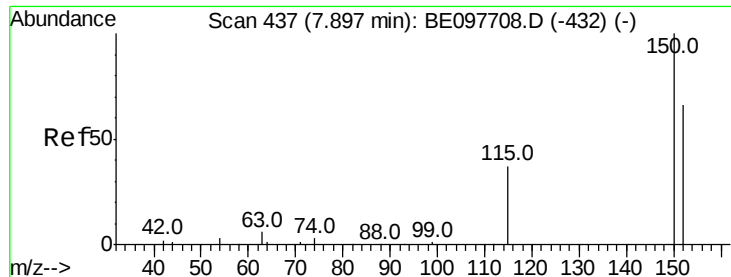
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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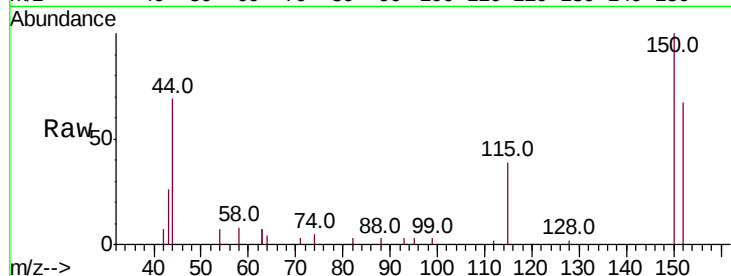


#1

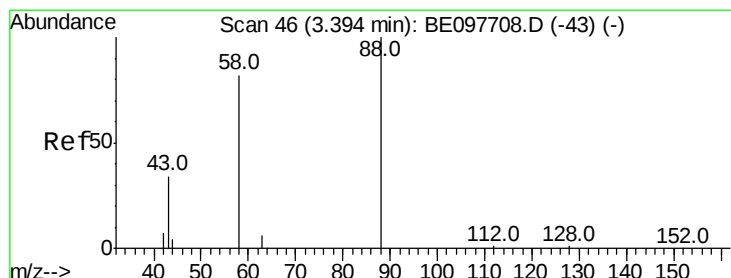
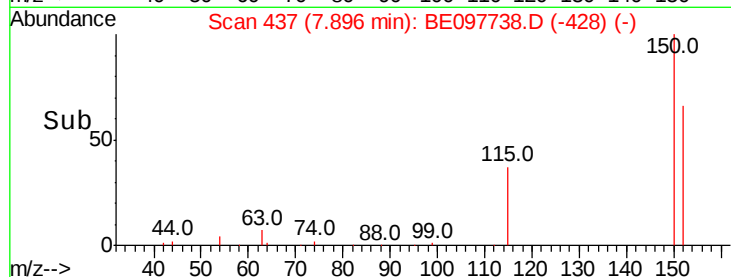
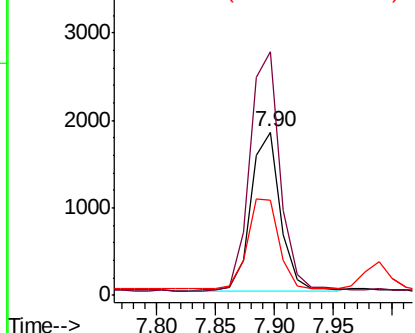
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.90 min Scan# 437  
Delta R.T. -0.00 min  
Lab File: BE097738.D  
Acq: 4 Oct 2018 22:56

Instrument :  
BNA\_E  
ClientSampleId :  
TT-101D-20180928

Tot Ion:152 Resp: 3165  
Ion Ratio Lower Upper  
152 100  
150 149.3 120.9 181.3  
115 58.7 46.6 69.8



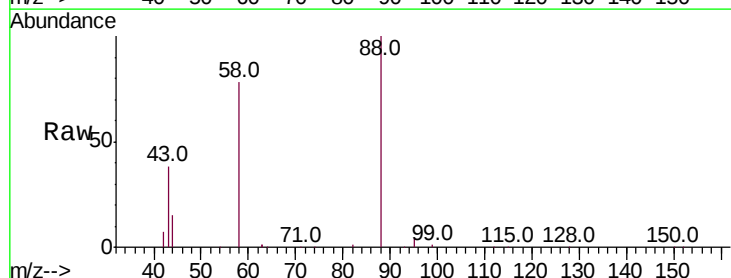
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



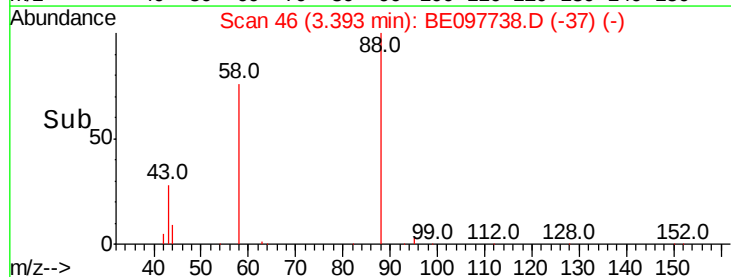
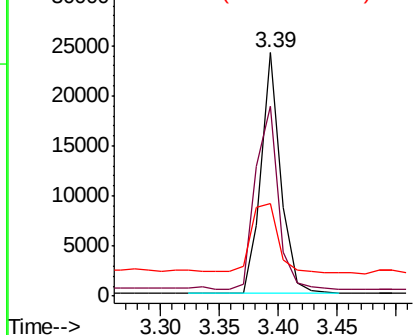
#2

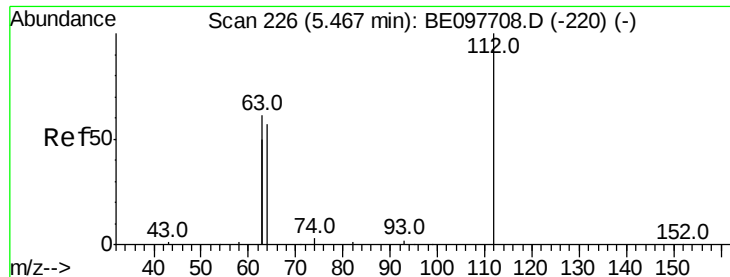
1,4-Dioxane  
Concen: 4.528 ng  
RT: 3.39 min Scan# 46  
Delta R.T. -0.00 min  
Lab File: BE097738.D  
Acq: 4 Oct 2018 22:56

Tgt Ion: 88 Resp: 28553  
Ion Ratio Lower Upper  
88 100  
58 85.8 70.8 106.2  
43 38.1 33.3 49.9



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: 0.202 ng

RT: 5.47 min Scan# 226

Delta R.T. -0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Instrument :

BNA\_E

ClientSampleId :

TT-101D-20180928

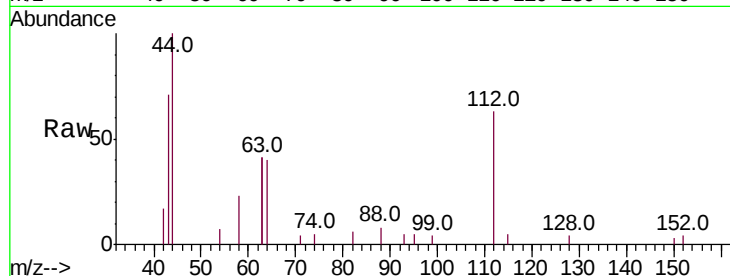
Tot Ion:112 Resp: 1515

Ion Ratio Lower Upper

112 100

64 66.2 56.6 84.8

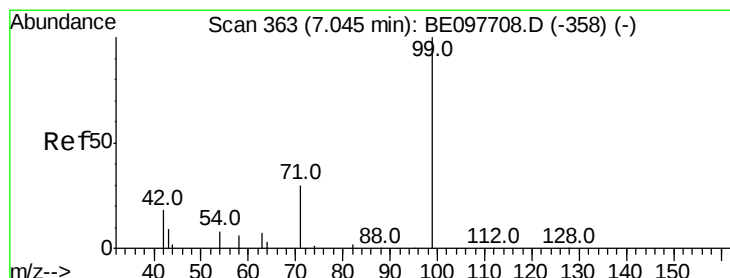
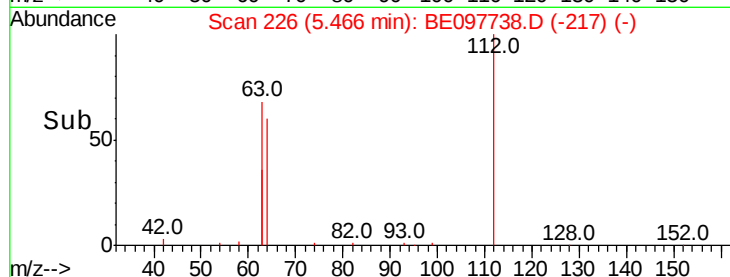
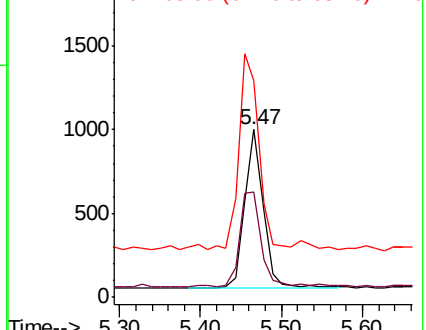
63 128.9 119.4 179.0



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



#5

Phenol-d6

Concen: 0.098 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

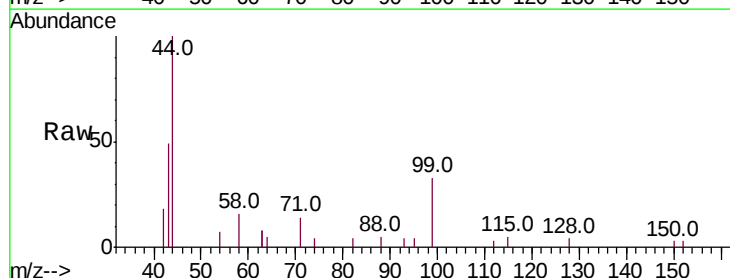
Tgt Ion: 99 Resp: 1124

Ion Ratio Lower Upper

99 100

42 26.1 19.9 29.9

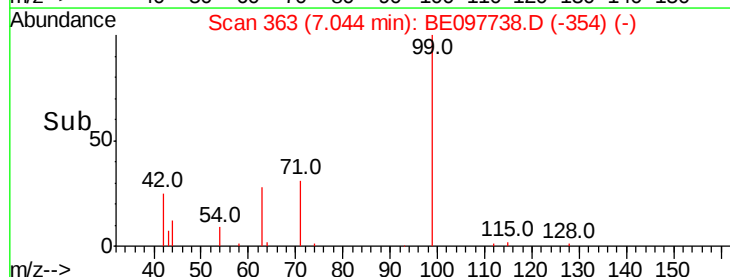
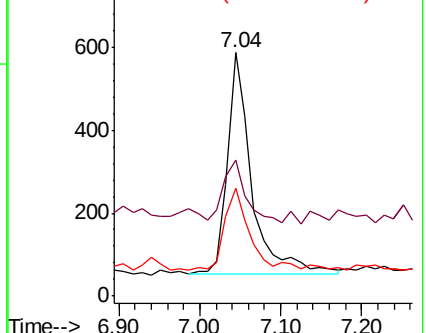
71 37.3 25.4 38.2

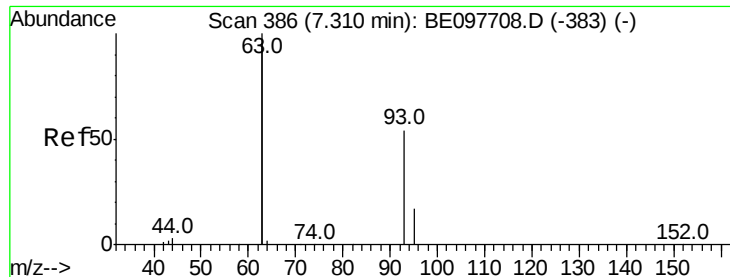


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.081 ng

RT: 7.31 min Scan# 386

Delta R.T. -0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Instrument :

BNA\_E

ClientSampleId :

TT-101D-20180928

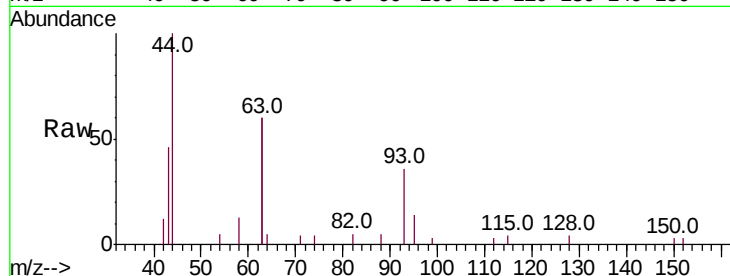
Tot Ion: 93 Resp: 959

Ion Ratio Lower Upper

93 100

63 316.5 266.9 400.3

95 34.4 26.2 39.2

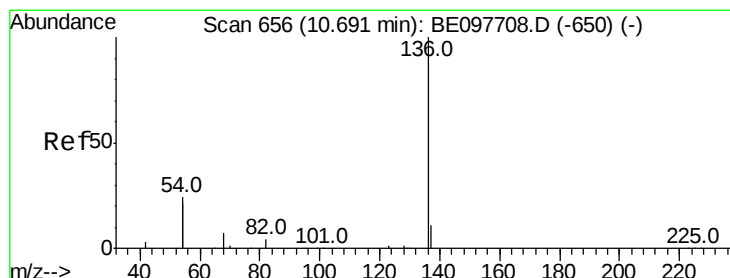
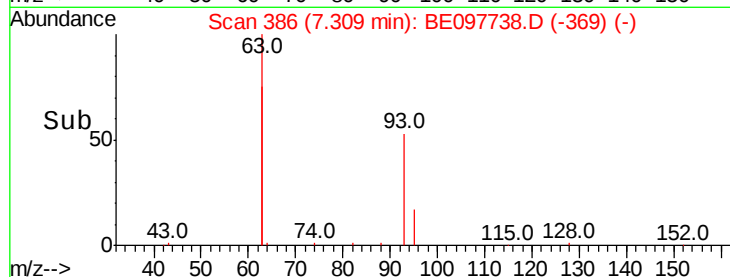
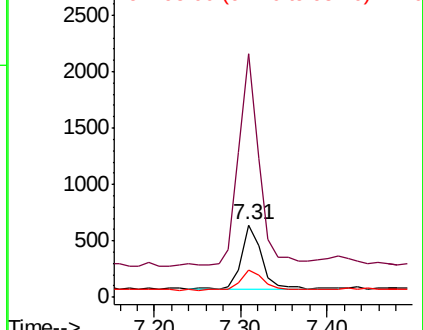


Abundance

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: 10.69 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Tgt Ion: 136 Resp: 12210

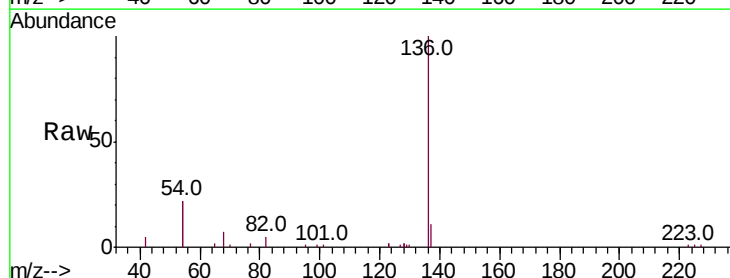
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 44.1 37.8 56.6

68 7.3 6.4 9.6



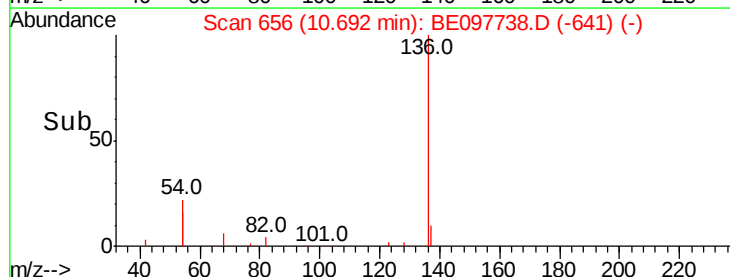
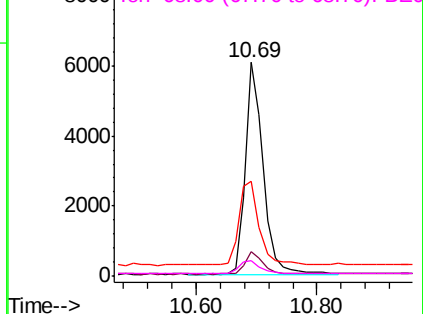
Abundance

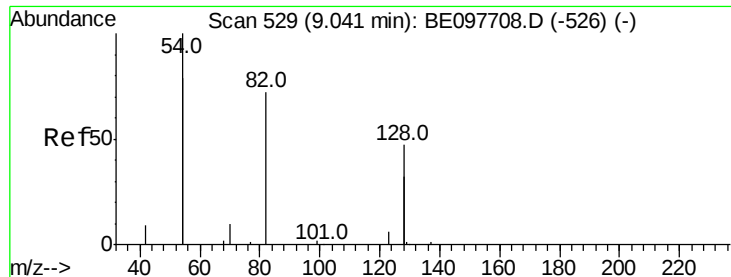
Ion 136.00 (135.70 to 136.70): E

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: 0.695 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Instrument :

BNA\_E

ClientSampleId :

TT-101D-20180928

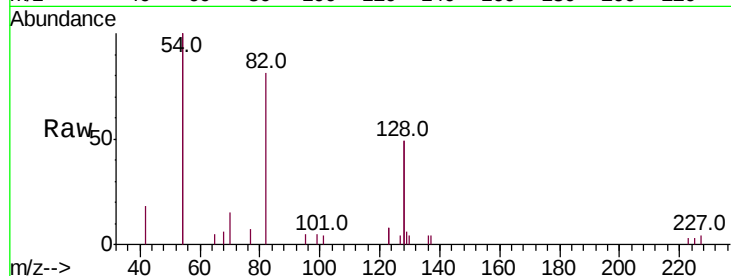
Tot Ion: 82 Resp: 2754

Ion Ratio Lower Upper

82 100

128 122.9 97.0 145.4

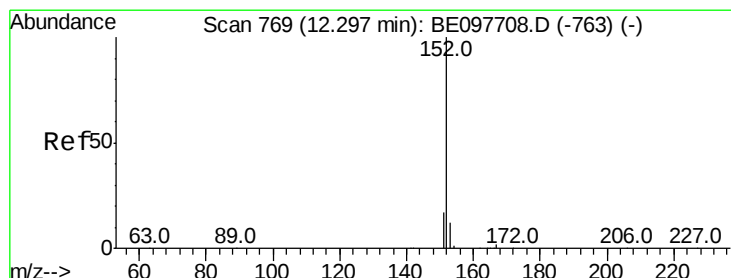
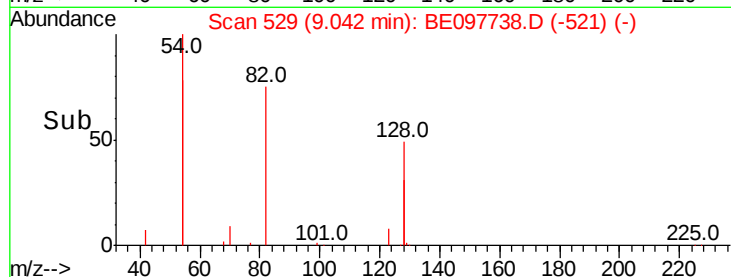
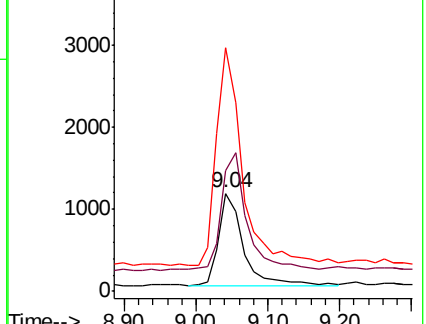
54 248.3 206.9 310.3



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: 0.396 ng

RT: 12.30 min Scan# 769

Delta R.T. -0.00 min

Lab File: BE097738.D

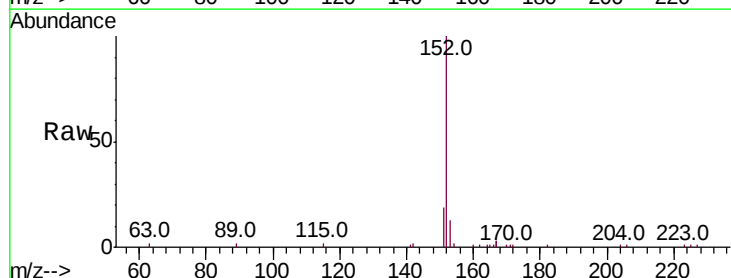
Acq: 4 Oct 2018 22:56

Tgt Ion: 152 Resp: 7697

Ion Ratio Lower Upper

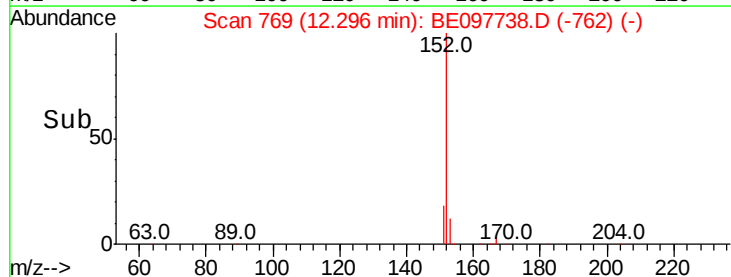
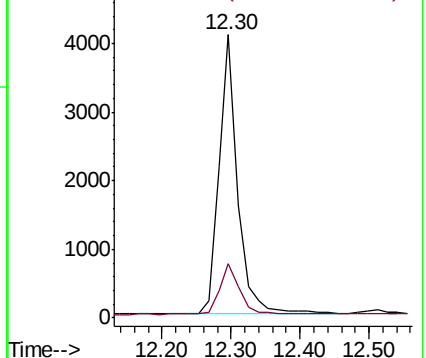
152 100

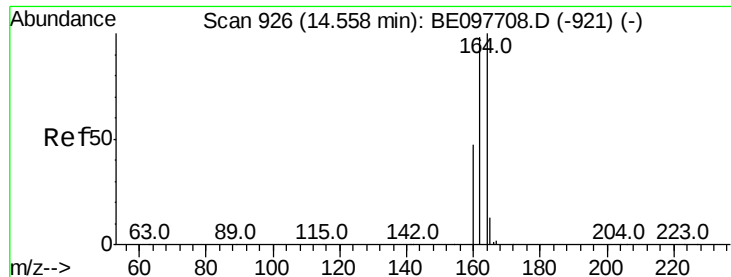
151 19.6 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

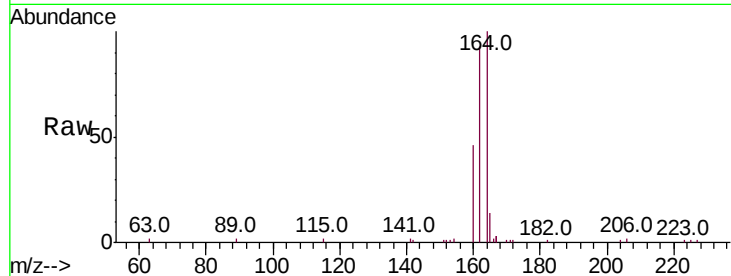




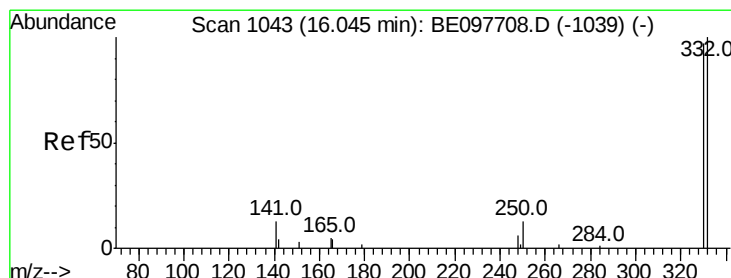
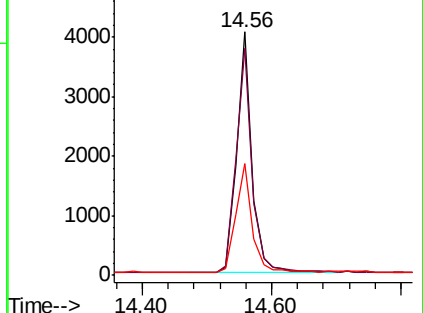
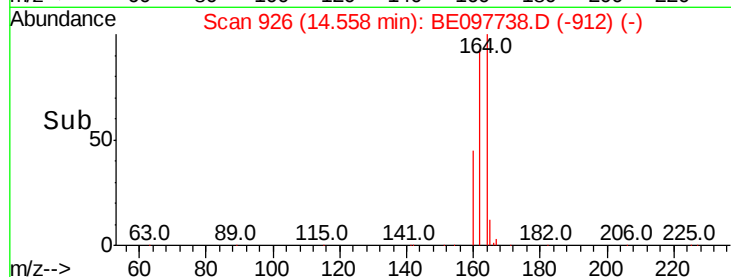
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.56 min Scan# 926  
 Delta R.T. -0.00 min  
 Lab File: BE097738.D  
 Acq: 4 Oct 2018 22:56

Instrument :  
 BNA\_E  
 ClientSampleId :  
 TT-101D-20180928

Tot Ion:164 Resp: 6545  
 Ion Ratio Lower Upper  
 164 100  
 162 93.4 78.6 117.8  
 160 45.9 37.8 56.6

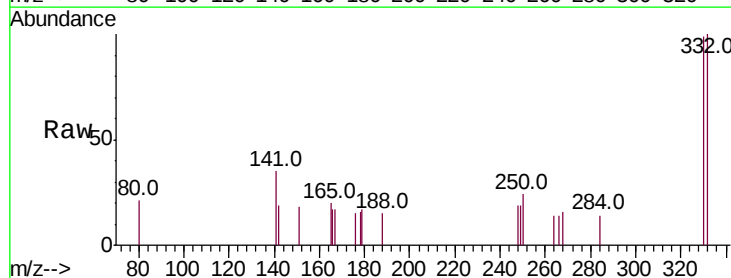


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

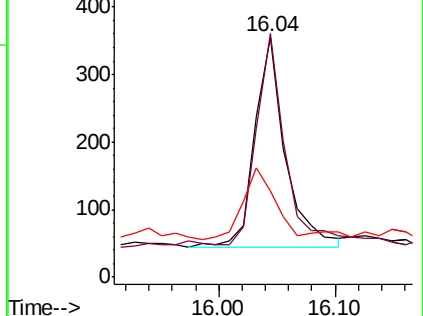
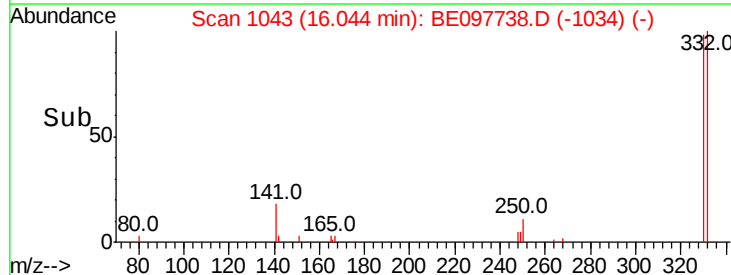


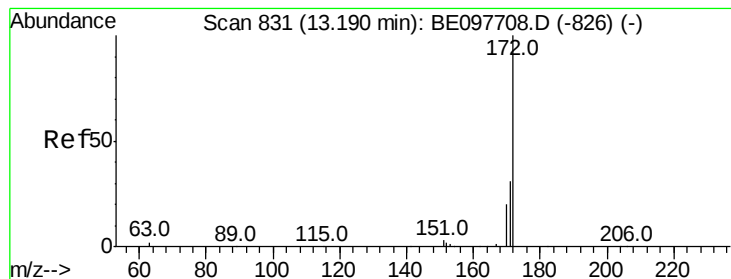
#14  
 2,4,6-Tribromophenol  
 Concen: 0.478 ng  
 RT: 16.04 min Scan# 1043  
 Delta R.T. 0.00 min  
 Lab File: BE097738.D  
 Acq: 4 Oct 2018 22:56

Tgt Ion:330 Resp: 567  
 Ion Ratio Lower Upper  
 330 100  
 332 99.8 83.5 125.3  
 141 36.3 34.9 52.3



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: 0.587 ng

RT: 13.18 min Scan# 830

Delta R.T. -0.01 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Instrument :

BNA\_E

ClientSampleId :

TT-101D-20180928

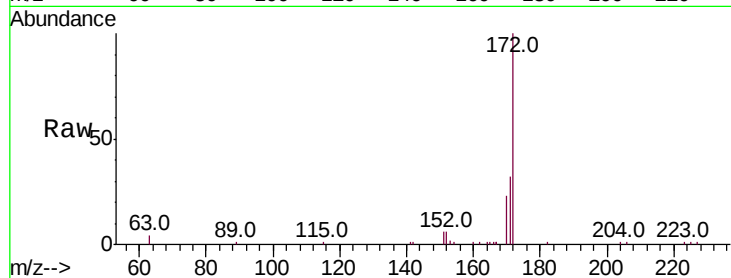
Tot Ion:172 Resp: 16907

Ion Ratio Lower Upper

172 100

171 32.0 25.2 37.8

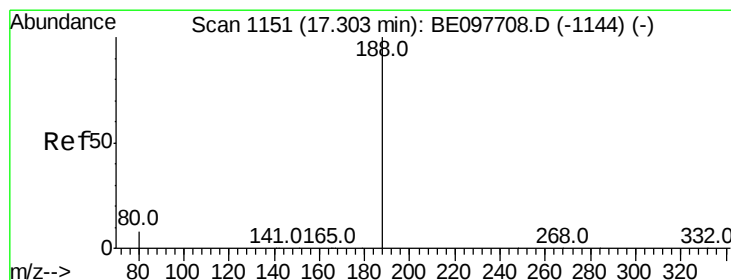
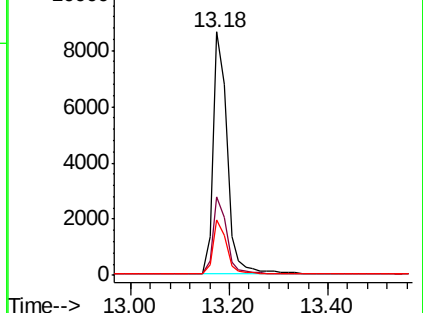
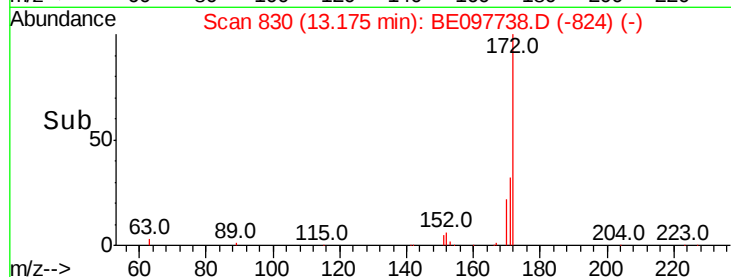
170 22.8 16.2 24.2



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: 17.30 min Scan# 1151

Delta R.T. -0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

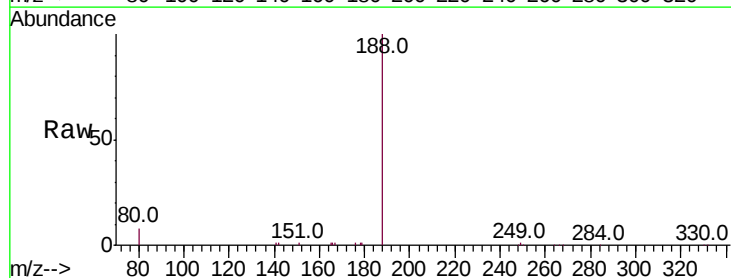
Tgt Ion:188 Resp: 18733

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

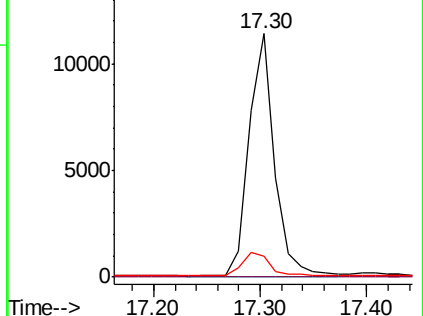
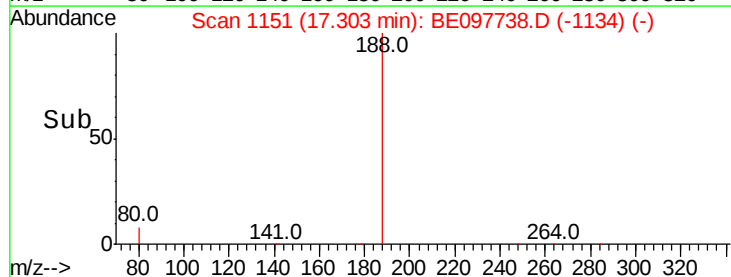
80 8.5 6.6 9.8

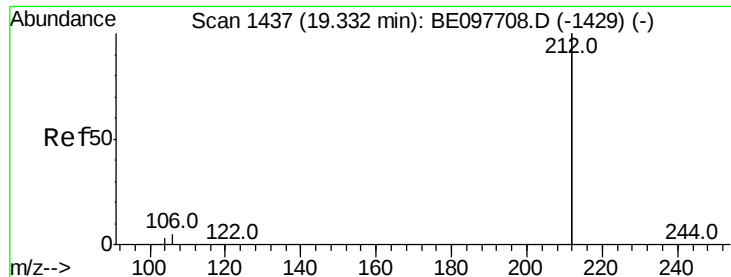


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#25

Fluoranthene-d10

Concen: 0.452 ng

RT: 19.33 min Scan# 1437

Delta R.T. 0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Instrument :

BNA\_E

ClientSampleId :

TT-101D-20180928

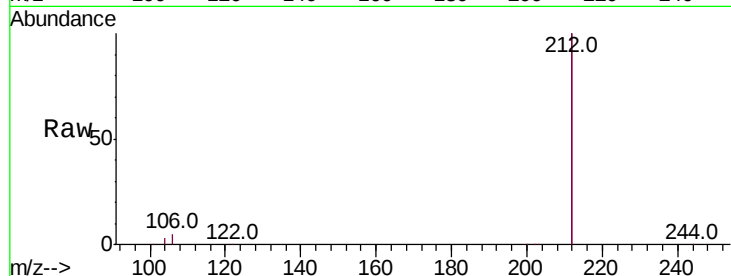
Tot Ion:212 Resp: 107092

Ion Ratio Lower Upper

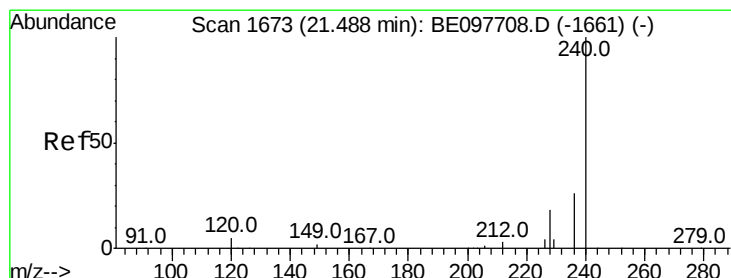
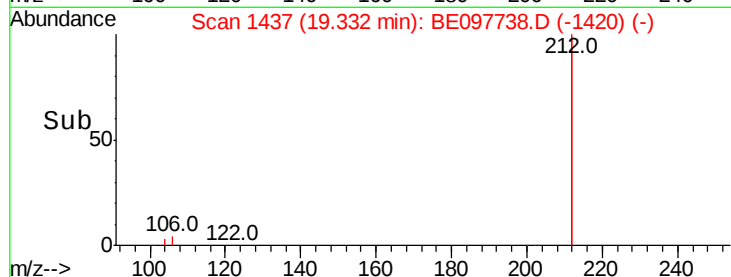
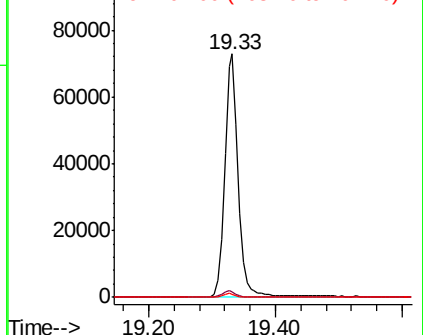
212 100

106 2.5 2.2 3.2

104 1.5 1.2 1.8



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: 21.49 min Scan# 1673

Delta R.T. -0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

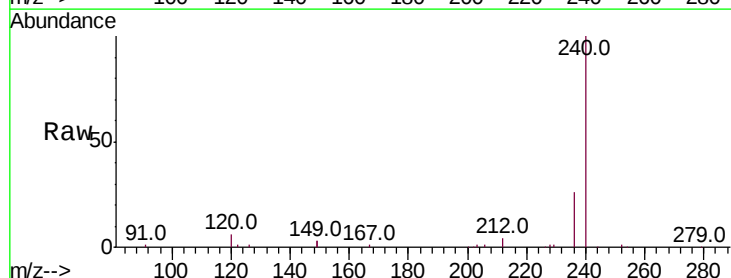
Tgt Ion:240 Resp: 24466

Ion Ratio Lower Upper

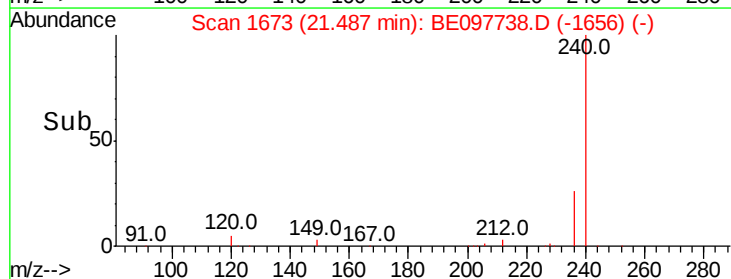
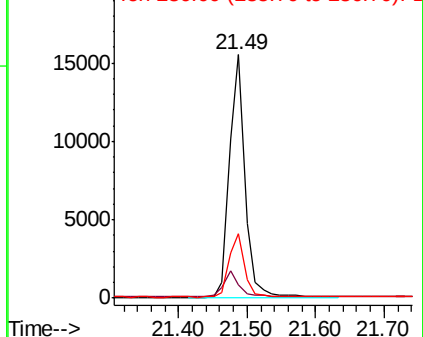
240 100

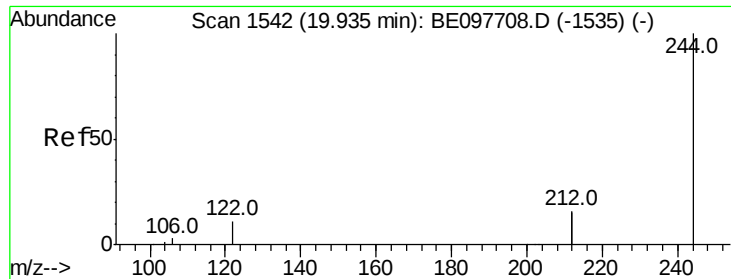
120 5.5 4.7 7.1

236 26.4 20.8 31.2



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: 0.484 ng

RT: 19.93 min Scan# 1541

Delta R.T. -0.01 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Instrument :

BNA\_E

ClientSampleId :

TT-101D-20180928

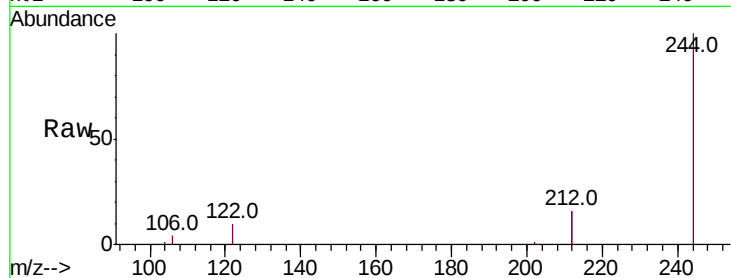
Tot Ion:244 Resp: 24156

Ion Ratio Lower Upper

244 100

212 32.1 25.8 38.8

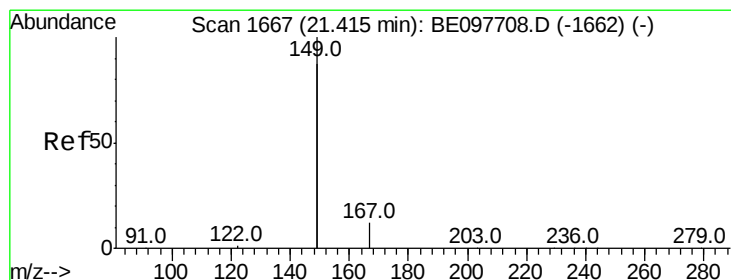
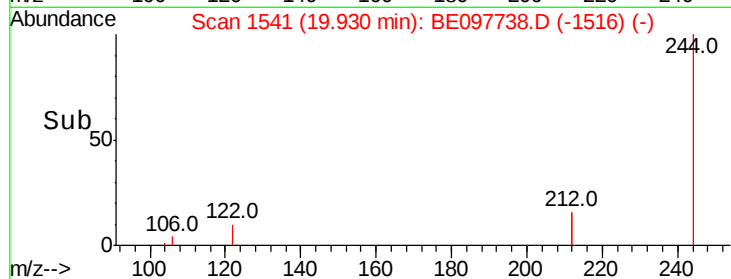
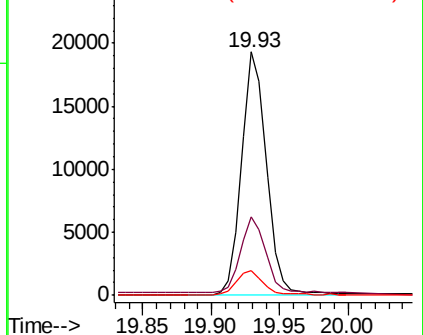
122 10.3 8.7 13.1



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: 0.050 ng

RT: 21.41 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

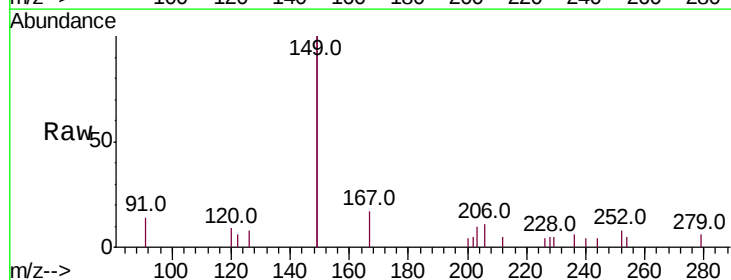
Tgt Ion:149 Resp: 2403

Ion Ratio Lower Upper

149 100

167 8.0 5.5 8.3

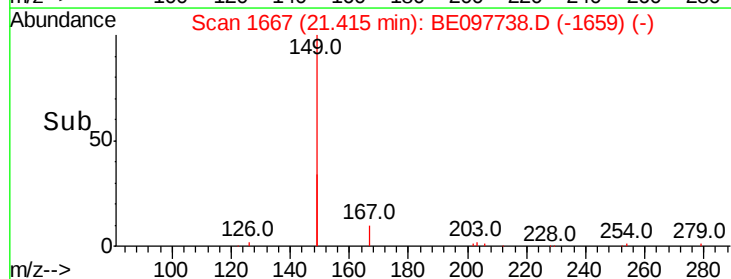
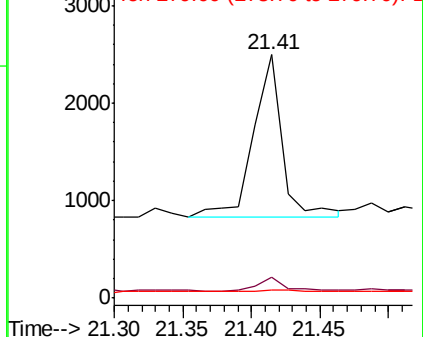
279 1.9 0.9 1.3#

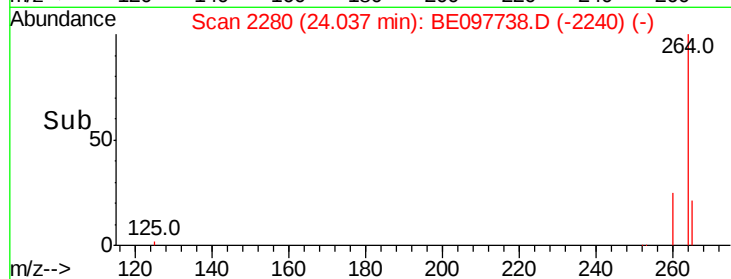
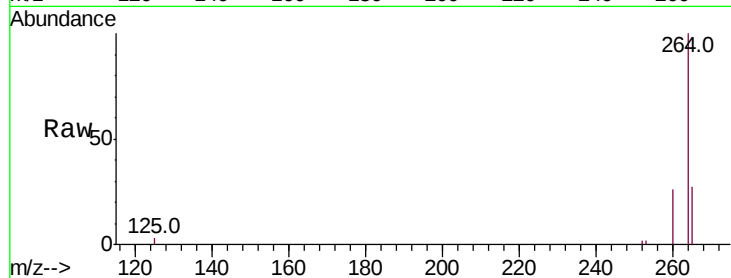
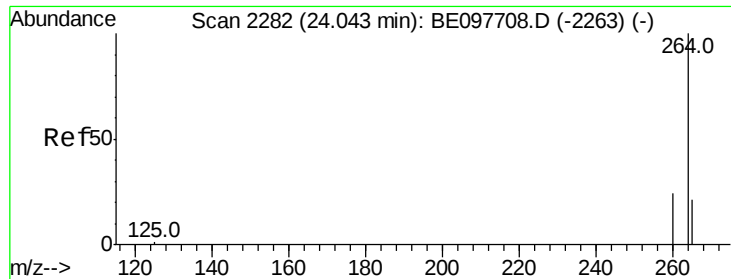


Abundance Ion 149.00 (148.70 to 149.70): E

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: 24.04 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BE097738.D

Acq: 4 Oct 2018 22:56

Instrument :

BNA\_E

ClientSampleId :

TT-101D-20180928

Tot Ion:264 Resp: 22715

Ion Ratio Lower Upper

264 100

260 25.8 19.1 28.7

265 27.4 21.9 32.9

