

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091918\  
 Data File : BE097551.D  
 Acq On : 19 Sep 2018 21:53  
 Operator : SJ/JU  
 Sample : J4958-07  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 BPSI-TT-MW306I-20180914

Quant Time: Sep 20 05:10:20 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 19 16:26:00 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 713      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.13 | 136  | 3058     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.01 | 164  | 1493     | 0.40 | ng    | 0.01     |
| 19) Phenanthrene-d10      | 16.76 | 188  | 4460     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 20.97 | 240  | 7483     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 2149     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.05  | 112 | 288   | 0.13 | ng | 0.01  |
| 5) Phenol-d6                | 6.55  | 99  | 4     | 0.00 | ng | -0.04 |
| 8) Nitrobenzene-d5          | 8.54  | 82  | 798   | 0.34 | ng | 0.02  |
| 11) 2-Methylnaphthalene-d10 | 11.74 | 152 | 1503  | 0.36 | ng | 0.02  |
| 14) 2,4,6-Tribromophenol    | 15.53 | 330 | 201   | 0.37 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.63 | 172 | 2594  | 0.49 | ng | 0.00  |
| 25) Fluoranthene-d10        | 18.80 | 212 | 23530 | 0.41 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.41 | 244 | 5812  | 0.42 | ng | 0.00  |

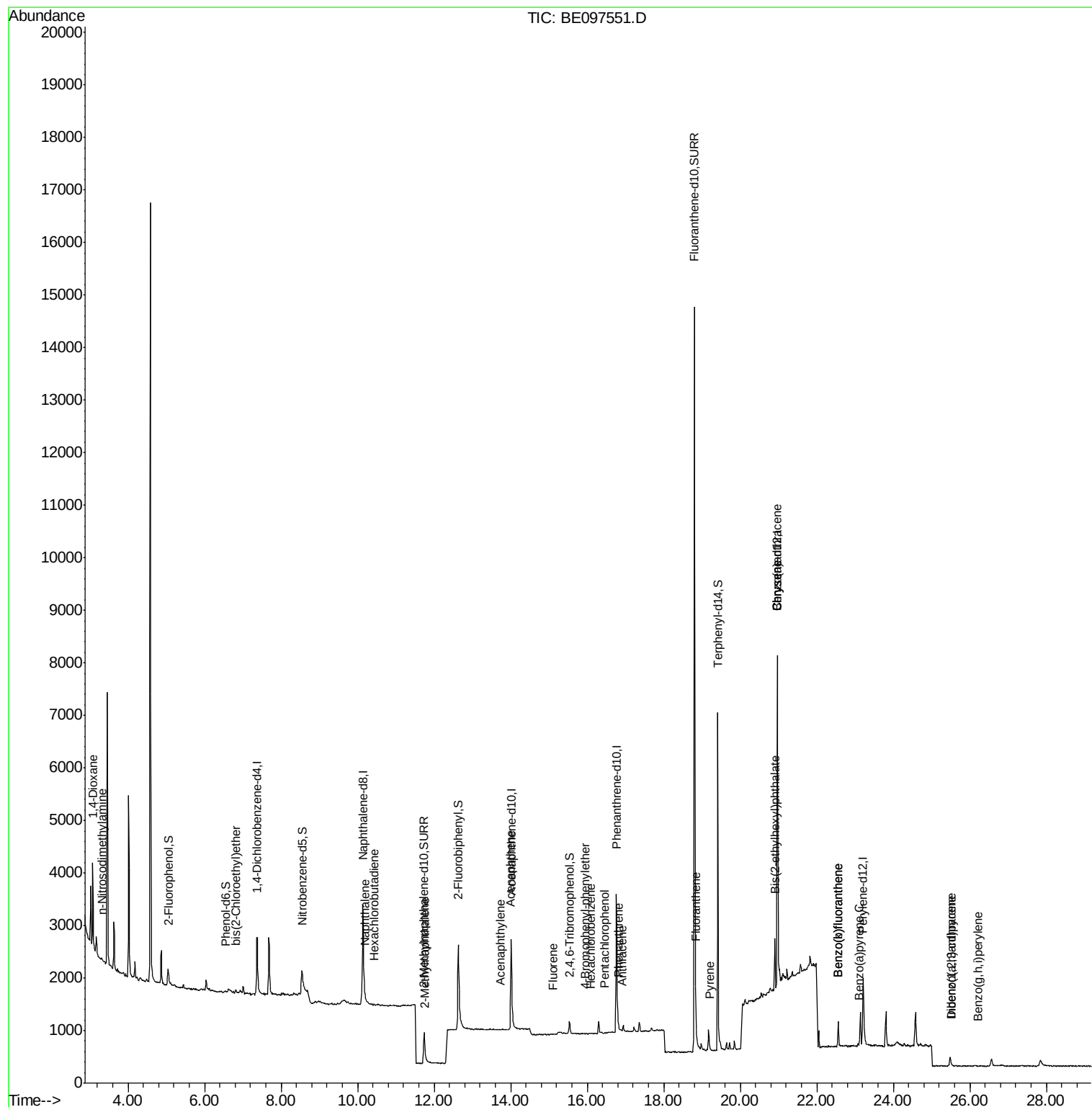
|                                |       |     |      |       |    |        |
|--------------------------------|-------|-----|------|-------|----|--------|
| Target Compounds               |       |     |      |       |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.07  | 88  | 884  | 0.764 | ng | # 89   |
| 3) n-Nitrosodimethylamine      | 3.33  | 42  | 52   | 0.065 | ng | # 1    |
| 6) bis(2-Chloroethyl)ether     | 6.83  | 93  | 12   | 0.005 | ng | # 52   |
| 9) Naphthalene                 | 10.18 | 128 | 171  | 0.006 | ng | # 52   |
| 10) Hexachlorobutadiene        | 10.44 | 225 | 5    | 0.004 | ng | # 17   |
| 12) 2-Methylnaphthalene        | 11.78 | 142 | 2    | 0.000 | ng | # 51   |
| 16) Acenaphthylene             | 13.74 | 152 | 6    | 0.001 | ng | # 1    |
| 17) Acenaphthene               | 14.00 | 154 | 6    | 0.002 | ng | # 16   |
| 18) Fluorene                   | 15.10 | 166 | 8    | 0.002 | ng | # 58   |
| 20) 4-Bromophenyl-phenylether  | 15.96 | 248 | 3    | 0.001 | ng | # 57   |
| 21) Hexachlorobenzene          | 16.09 | 284 | 1    | 0.000 | ng | # 1    |
| 22) Pentachlorophenol          | 16.46 | 266 | 6    | 0.136 | ng | 95     |
| 23) Phenanthrene               | 16.81 | 178 | 34   | 0.003 | ng | # 79   |
| 24) Anthracene                 | 16.92 | 178 | 11   | 0.001 | ng | # 42   |
| 26) Fluoranthene               | 18.84 | 202 | 24   | 0.002 | ng | # 65   |
| 28) Pyrene                     | 19.20 | 202 | 26   | 0.002 | ng | # 88   |
| 30) Benzo(a)anthracene         | 20.97 | 228 | 52   | 0.003 | ng | # 1    |
| 31) Chrysene                   | 20.97 | 228 | 36   | 0.002 | ng | # 1    |
| 32) Bis(2-ethylhexyl)phthalate | 20.91 | 149 | 1299 | 0.052 | ng | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.52 | 276 | 3    | 0.000 | ng | # 33   |
| 35) Benzo(b)fluoranthene       | 22.56 | 252 | 60   | 0.011 | ng | # 1    |
| 36) Benzo(k)fluoranthene       | 22.56 | 252 | 60   | 0.010 | ng | # 1    |
| 37) Benzo(a)pyrene             | 23.10 | 252 | 4    | 0.021 | ng | # 1    |
| 38) Dibenzo(a,h)anthracene     | 25.53 | 278 | 3    | 0.001 | ng | # 1    |
| 39) Benzo(g,h,i)perylene       | 26.21 | 276 | 1    | 0.000 | ng | # 1    |

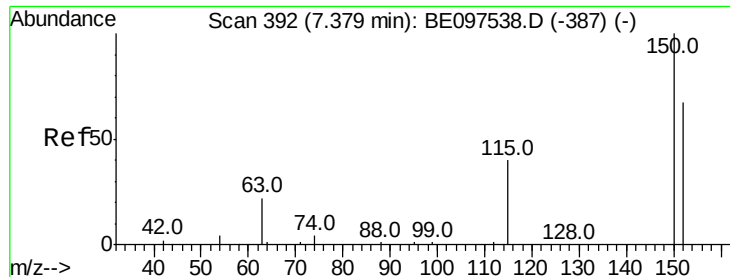
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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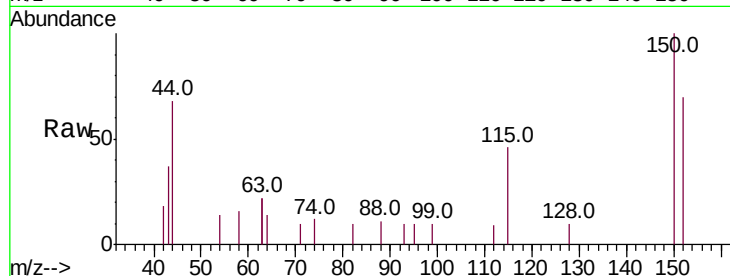


#1

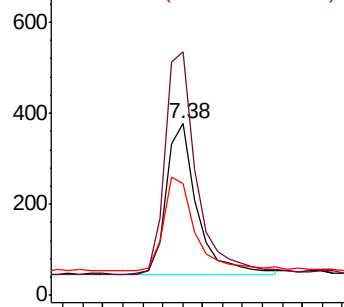
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.38 min Scan# 392  
Delta R.T. 0.00 min  
Lab File: BE097551.D  
Acq: 19 Sep 2018 21:53

Instrument :  
BNA\_E  
ClientSampleId :  
BPSI-TT-MW306I-20180914

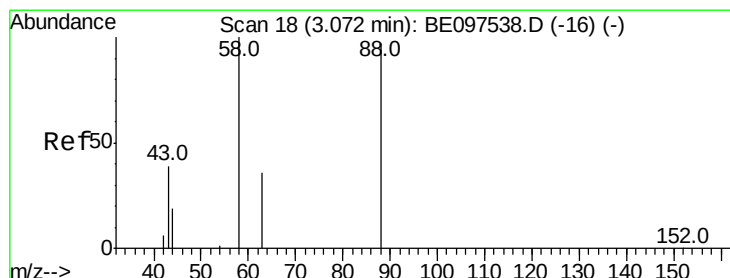
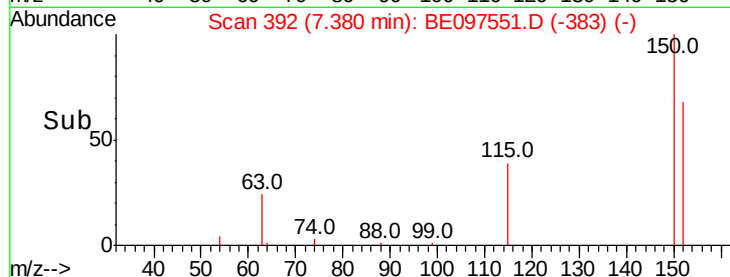
Tot Ion:152 Resp: 713  
Ion Ratio Lower Upper  
152 100  
150 141.9 117.2 175.8  
115 65.3 57.0 85.6



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



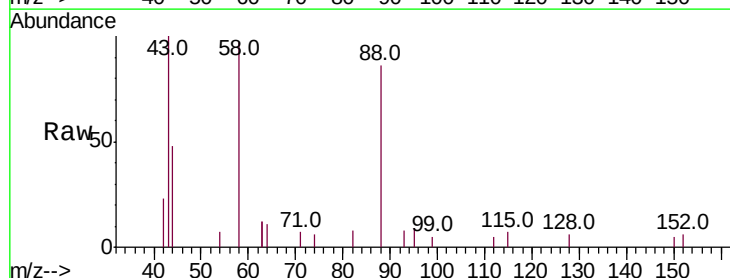
Time-->



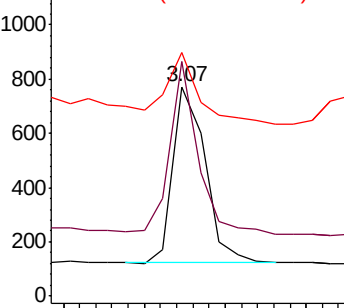
#2

1,4-Dioxane  
Concen: 0.764 ng  
RT: 3.07 min Scan# 18  
Delta R.T. 0.00 min  
Lab File: BE097551.D  
Acq: 19 Sep 2018 21:53

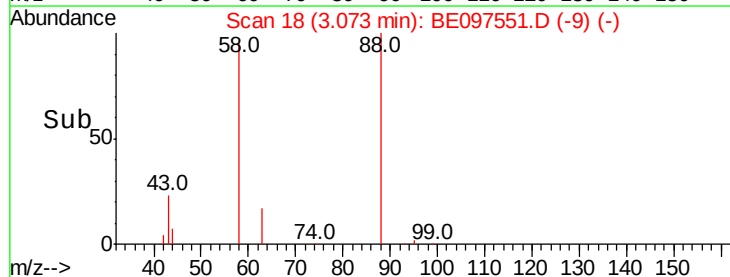
Tgt Ion: 88 Resp: 884  
Ion Ratio Lower Upper  
88 100  
58 86.4 63.2 94.8  
43 40.4 41.2 61.8#

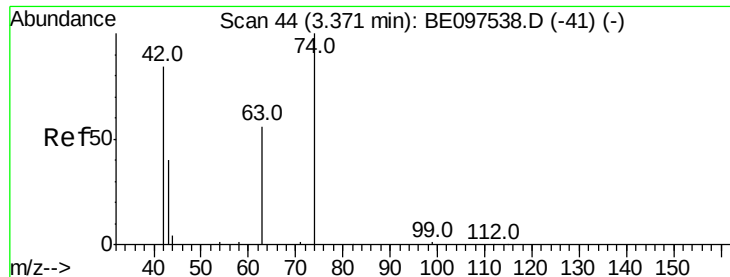


Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0



Time-->





#3

n-Nitrosodimethylamine

Concen: 0.065 ng

RT: 3.33 min Scan# 40

Delta R.T. -0.04 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

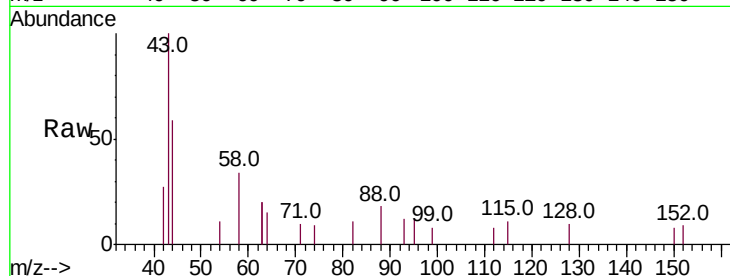
Tot Ion: 42 Resp: 52

Ion Ratio Lower Upper

42 100

74 0.0 96.0 144.0#

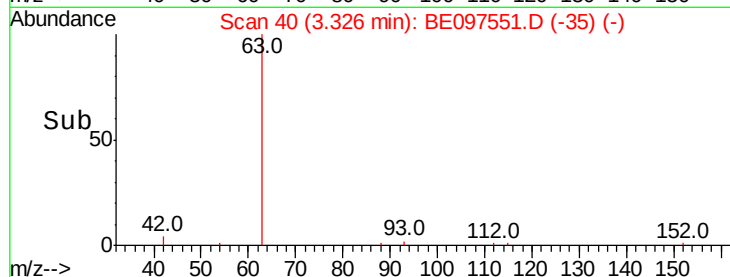
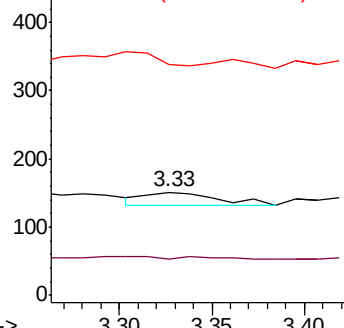
44 0.0 12.0 18.0#



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: 0.135 ng

RT: 5.05 min Scan# 190

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

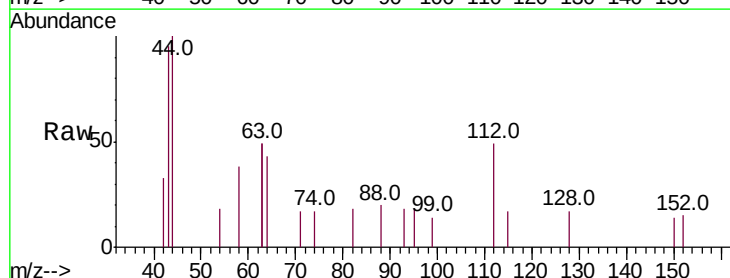
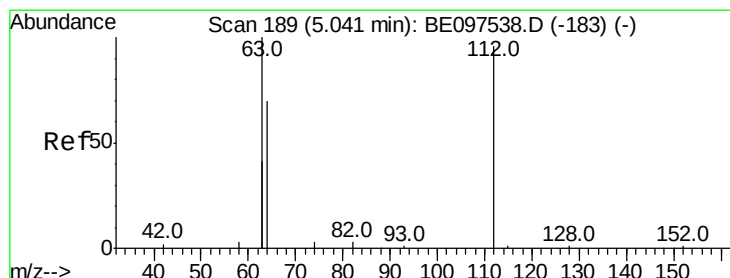
Tgt Ion: 112 Resp: 288

Ion Ratio Lower Upper

112 100

64 78.1 60.1 90.1

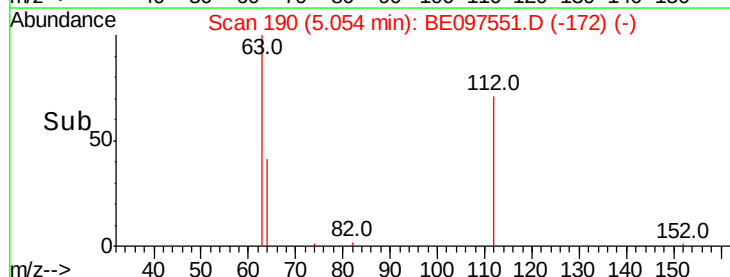
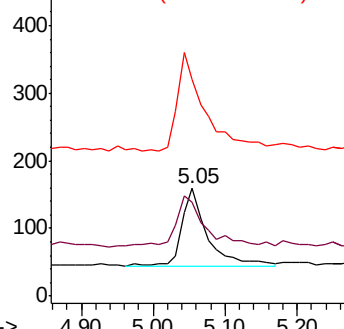
63 135.8 116.8 175.2

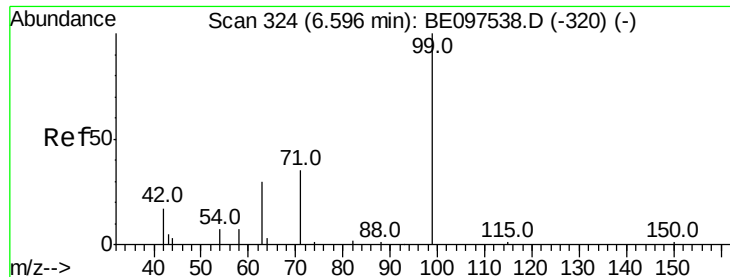


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.001 ng

RT: 6.55 min Scan# 320

Delta R.T. -0.04 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

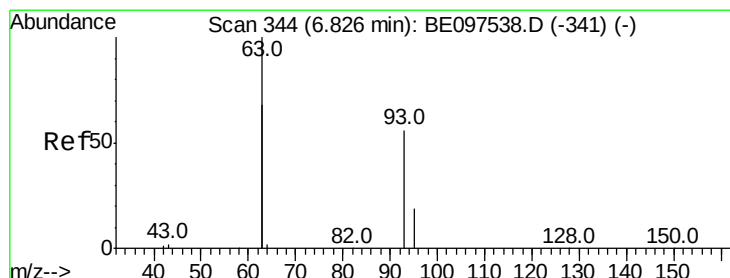
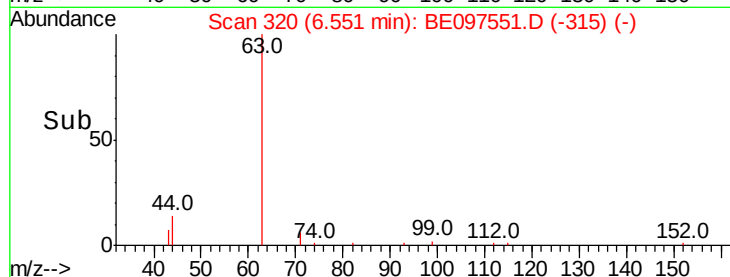
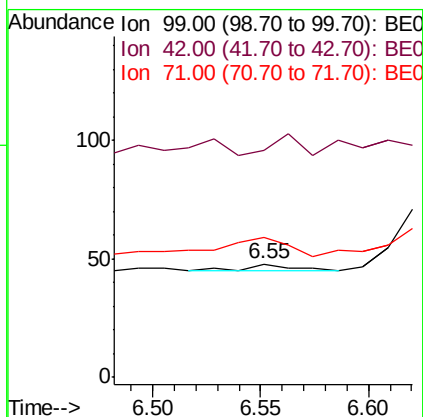
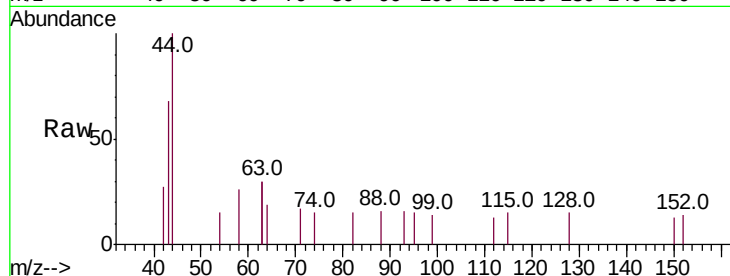
Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

| Tot Ion: | 99    | Resp: | 4     |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 200.0 | 20.2  | 30.2# |
| 71       | 325.0 | 28.4  | 42.6# |



#6

bis(2-Chloroethyl)ether

Concen: 0.005 ng

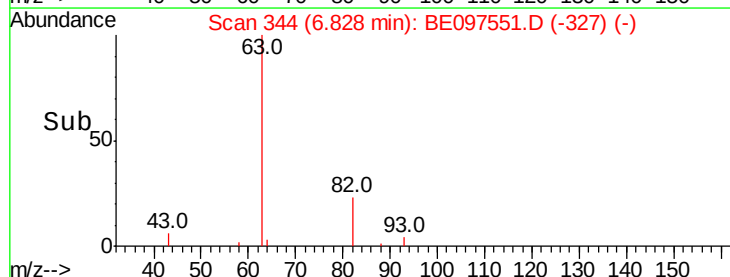
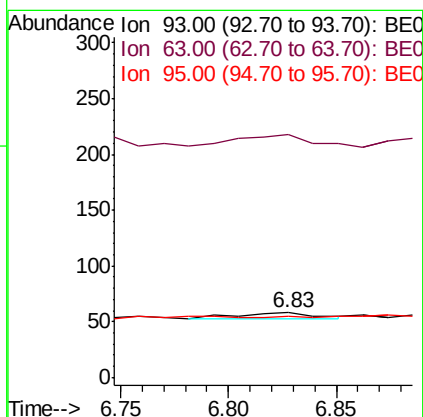
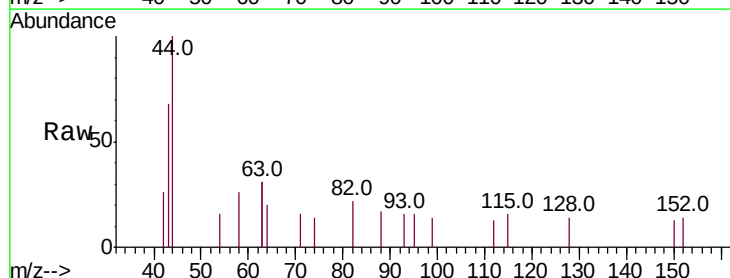
RT: 6.83 min Scan# 344

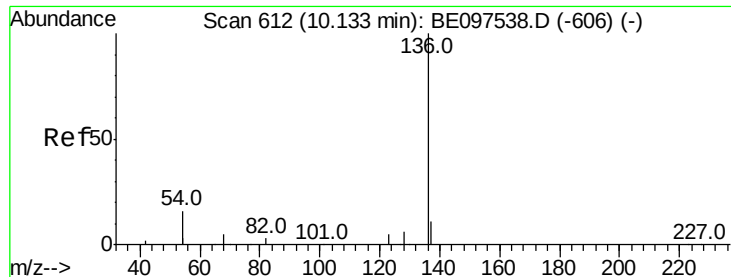
Delta R.T. 0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

| Tgt Ion: | 93    | Resp: | 12     |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 63       | 241.7 | 275.3 | 412.9# |
| 95       | 0.0   | 25.2  | 37.8#  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.13 min Scan# 612

Delta R.T. -0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

Tot Ion:136 Resp: 3058

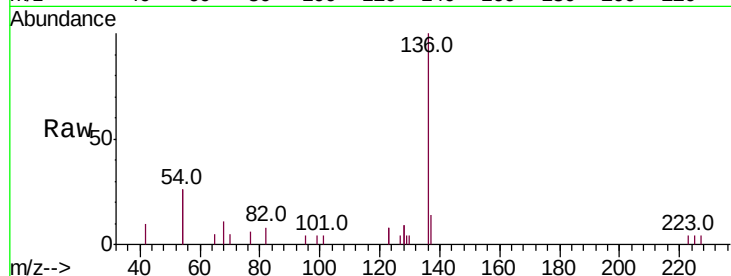
Ion Ratio Lower Upper

136 100

137 14.1 9.5 14.3

54 52.5 29.1 43.7#

68 10.7 6.2 9.2#



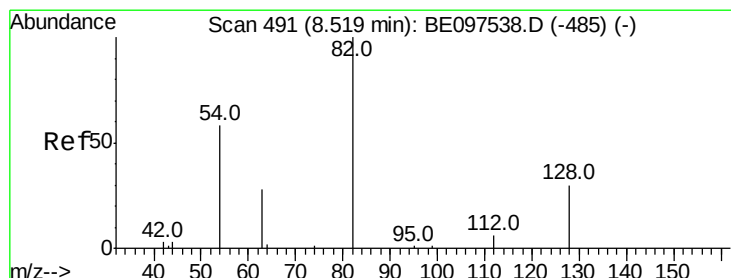
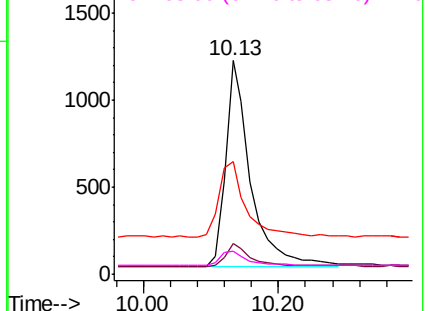
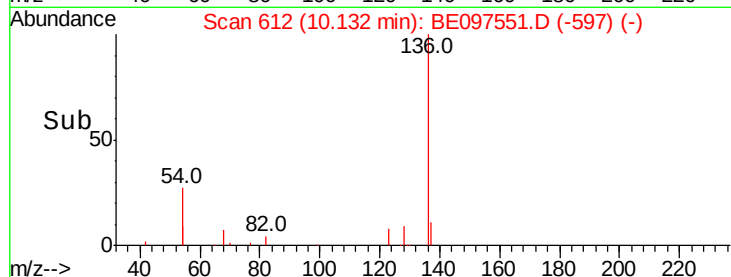
Abundance

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: 0.338 ng

RT: 8.54 min Scan# 493

Delta R.T. 0.02 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

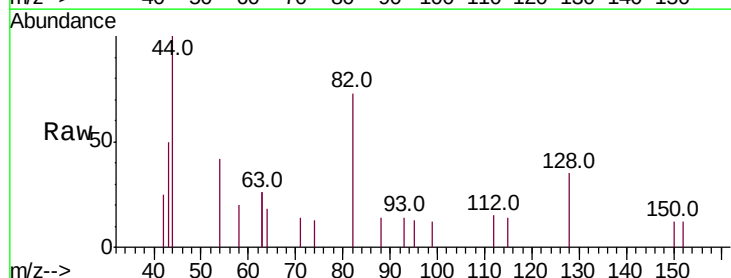
Tgt Ion: 82 Resp: 798

Ion Ratio Lower Upper

82 100

128 47.6 24.0 36.0#

54 57.3 40.0 60.0

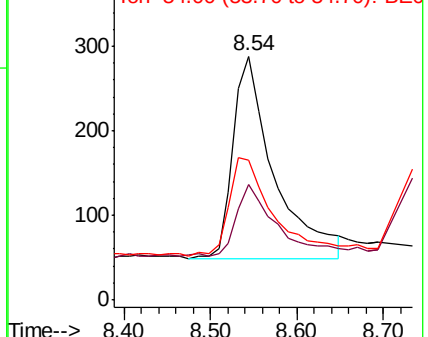
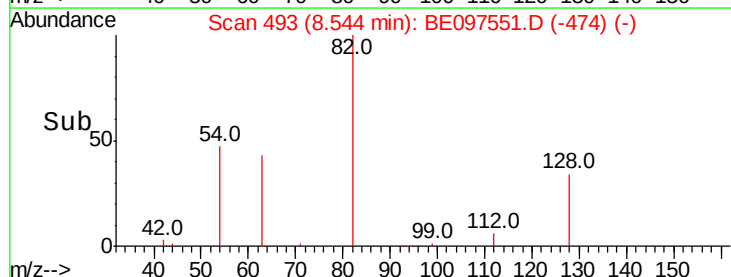


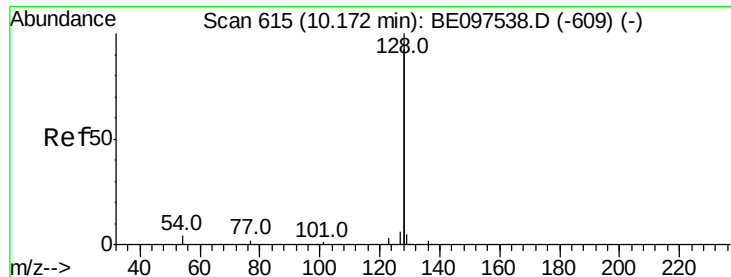
Abundance

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: 0.006 ng

RT: 10.18 min Scan# 616

Delta R.T. 0.01 min

Lab File: BE097551.D

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BNA\_E

ClientSampleId :

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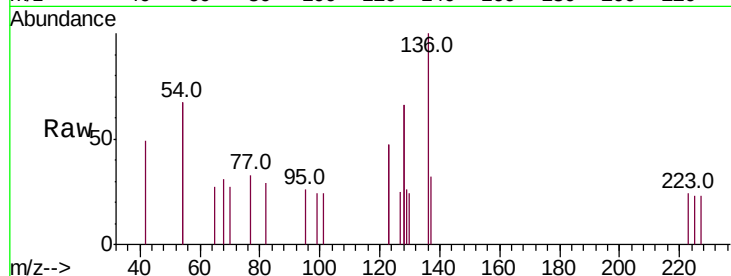
Tot Ion:128 Resp: 171

Ion Ratio Lower Upper

128 100

129 19.5 2.6 3.8#

127 18.8 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

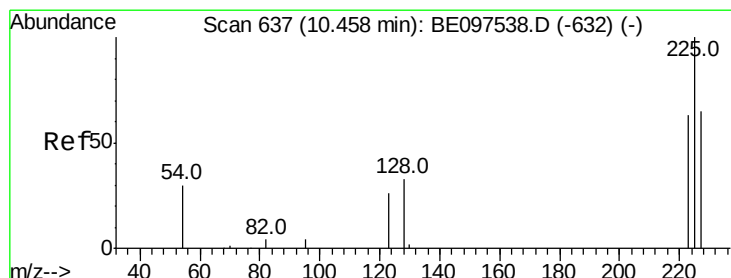
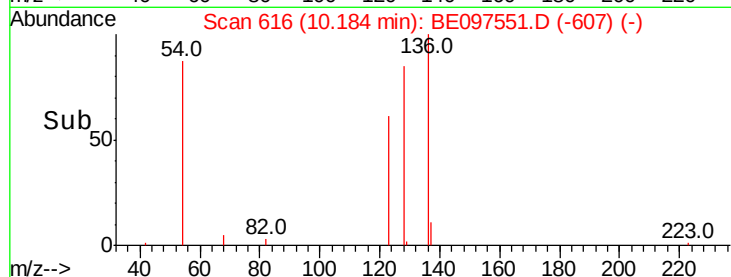
10.18

200

100

0

Time-->



#10

Hexachlorobutadiene

Concen: 0.004 ng

RT: 10.44 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

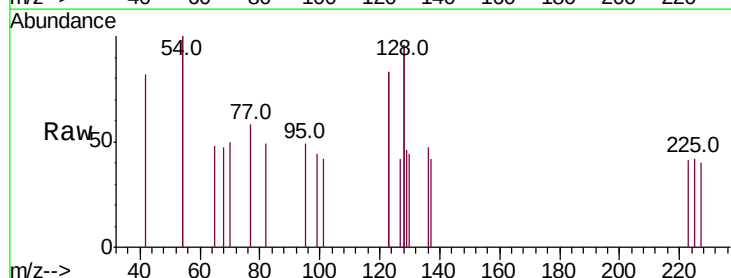
Tgt Ion:225 Resp: 5

Ion Ratio Lower Upper

225 100

223 0.0 53.0 79.6#

227 0.0 51.4 77.2#



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

10.44

60

50

40

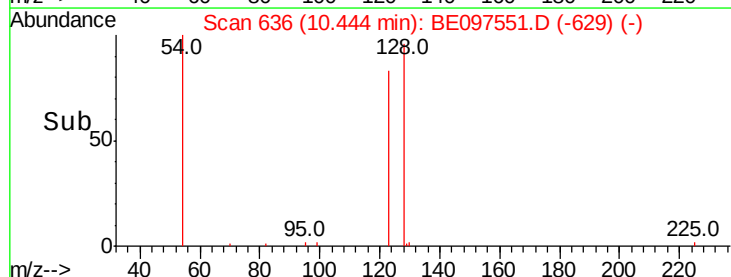
30

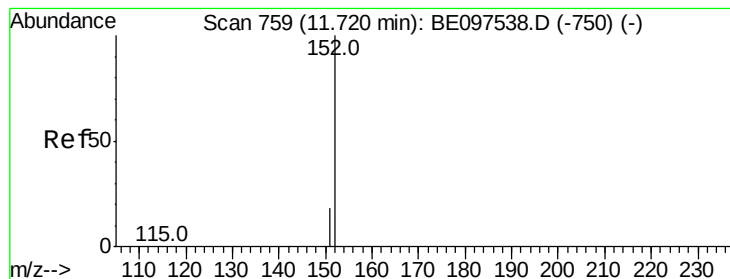
20

10

0

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.357 ng

RT: 11.74 min Scan# 762

Delta R.T. 0.02 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

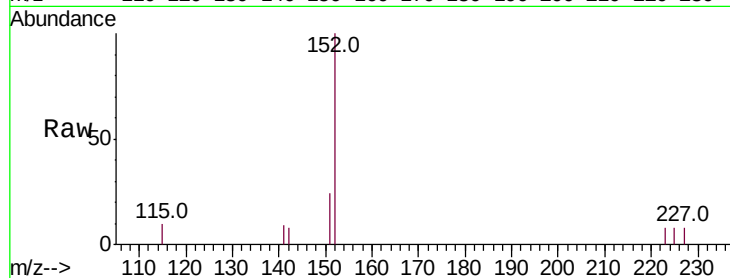
BPSI-TT-MW306I-20180914

Tot Ion:152 Resp: 1503

Ion Ratio Lower Upper

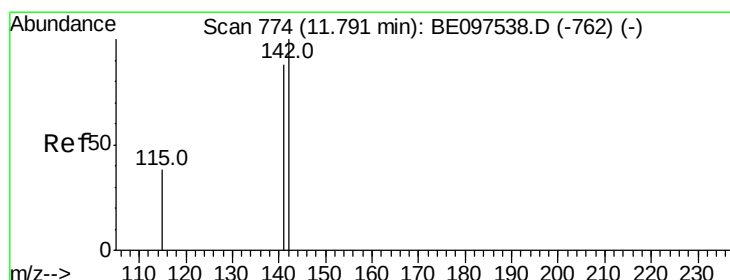
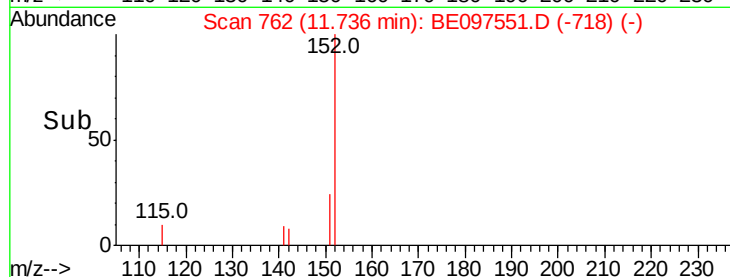
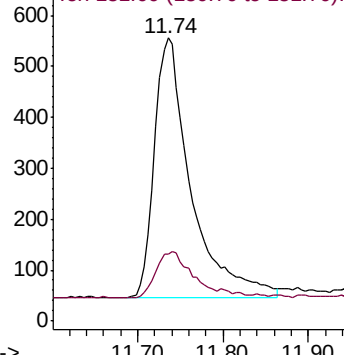
152 100

151 18.0 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: 0.000 ng

RT: 11.78 min Scan# 771

Delta R.T. -0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

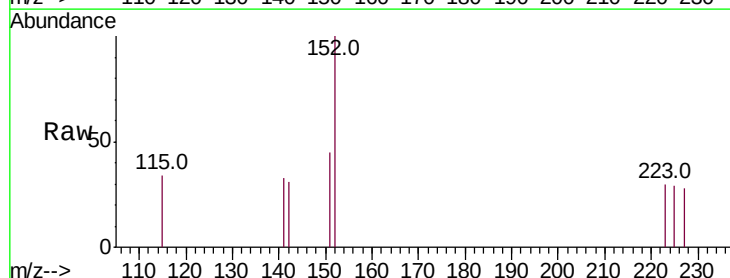
Tgt Ion:142 Resp: 2

Ion Ratio Lower Upper

142 100

141 106.3 70.4 105.6#

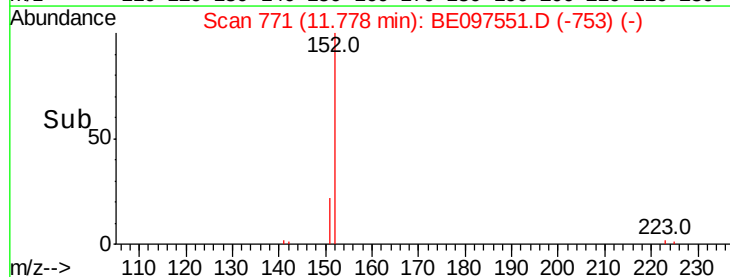
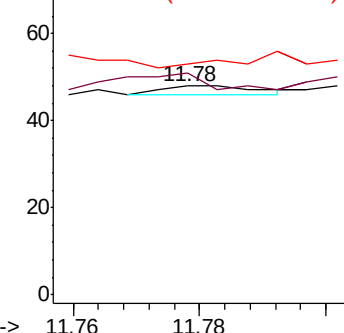
115 110.4 31.7 47.5#



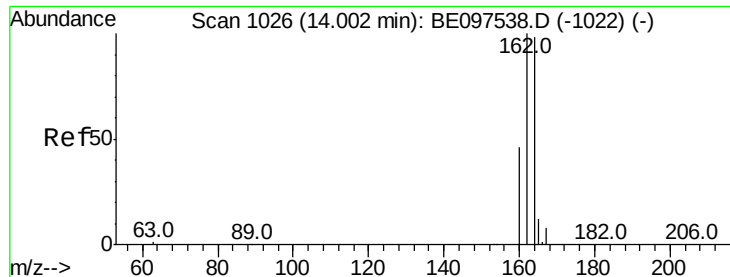
Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.01 min Scan# 1027

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

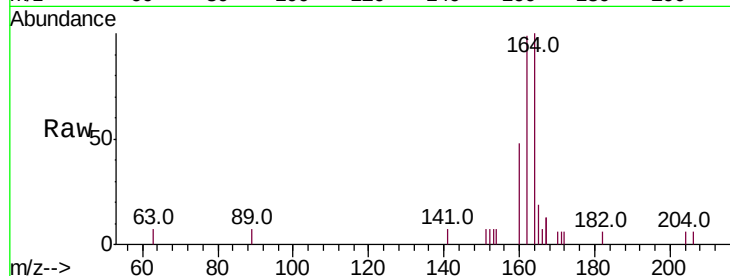
Tot Ion:164 Resp: 1493

Ion Ratio Lower Upper

164 100

162 98.9 83.1 124.7

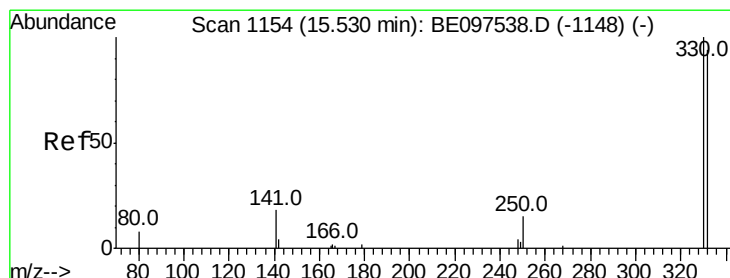
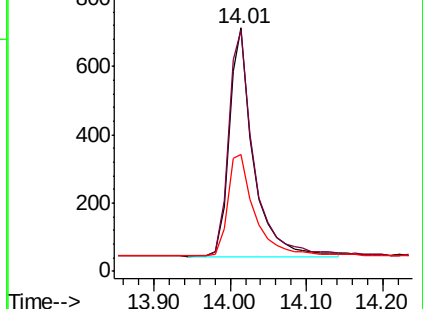
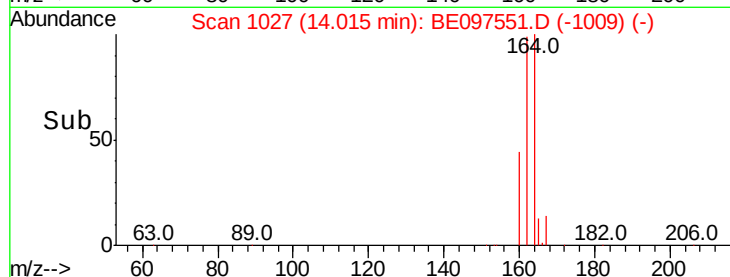
160 48.1 37.1 55.7



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: 0.371 ng

RT: 15.53 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

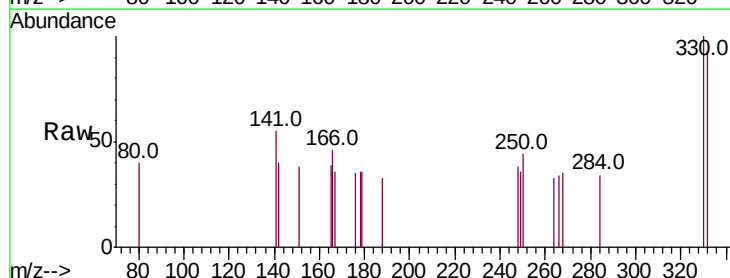
Tgt Ion:330 Resp: 201

Ion Ratio Lower Upper

330 100

332 96.5 152.7 229.1#

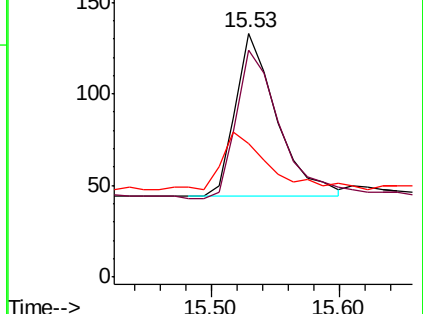
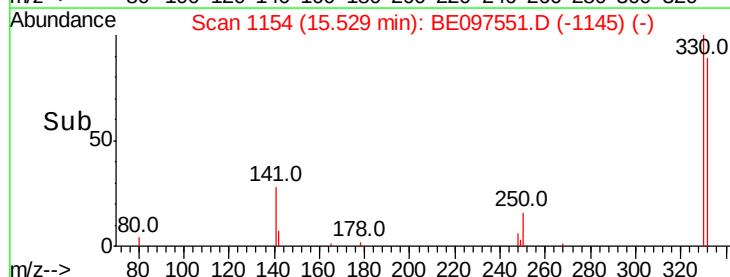
141 32.8 33.7 50.5#

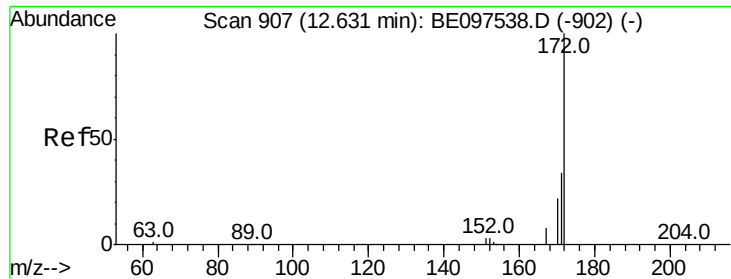


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

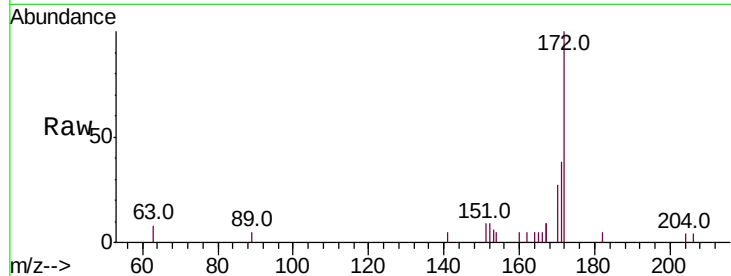




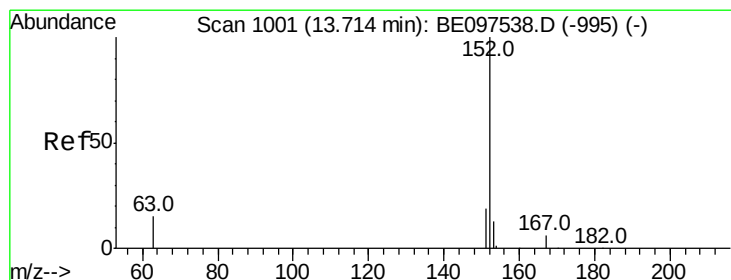
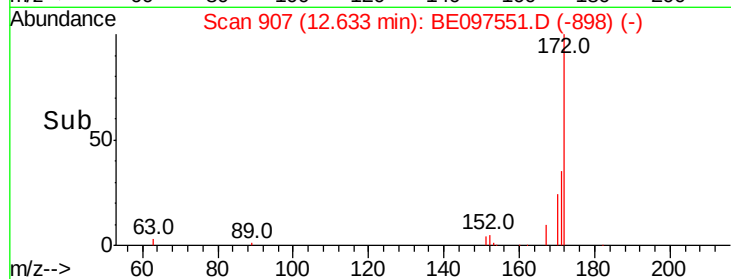
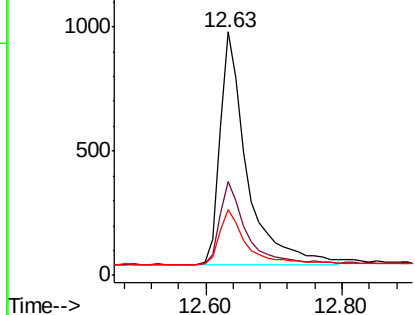
#15  
2-Fluorobiphenyl  
Concen: 0.492 ng  
RT: 12.63 min Scan# 907  
Delta R.T. 0.00 min  
Lab File: BE097551.D  
Acq: 19 Sep 2018 21:53

Instrument :  
BNA\_E  
ClientSampleId :  
BPSI-TT-MW306I-20180914

Tot Ion:172 Resp: 2594  
Ion Ratio Lower Upper  
172 100  
171 38.4 29.9 44.9  
170 27.1 21.8 32.8

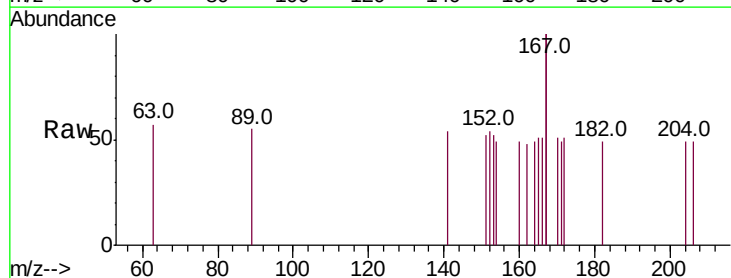


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

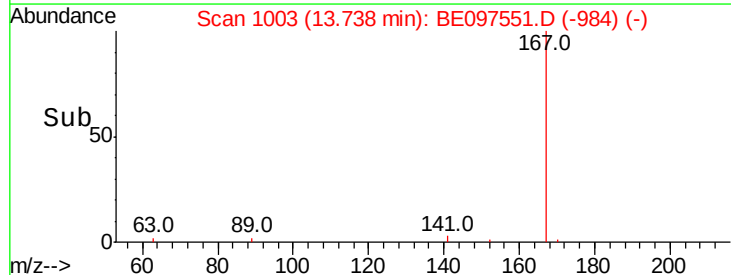
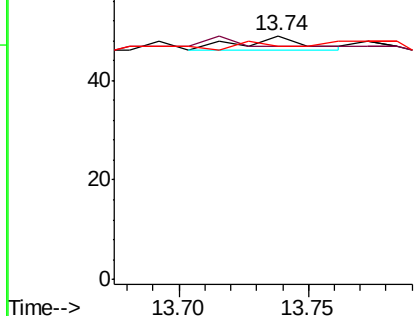


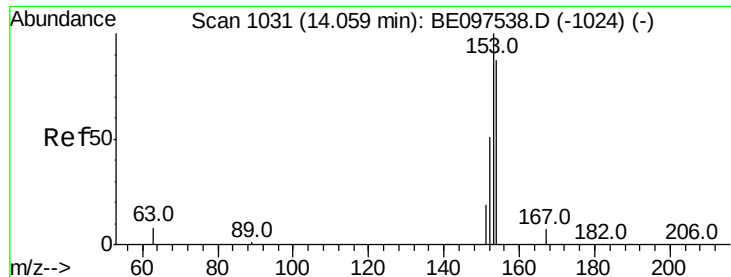
#16  
Acenaphthylene  
Concen: 0.001 ng  
RT: 13.74 min Scan# 1003  
Delta R.T. 0.02 min  
Lab File: BE097551.D  
Acq: 19 Sep 2018 21:53

Tgt Ion:152 Resp: 6  
Ion Ratio Lower Upper  
152 100  
151 0.0 15.7 23.5#  
153 116.7 10.5 15.7#



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: 0.002 ng

RT: 14.00 min Scan# 1026

Delta R.T. -0.06 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

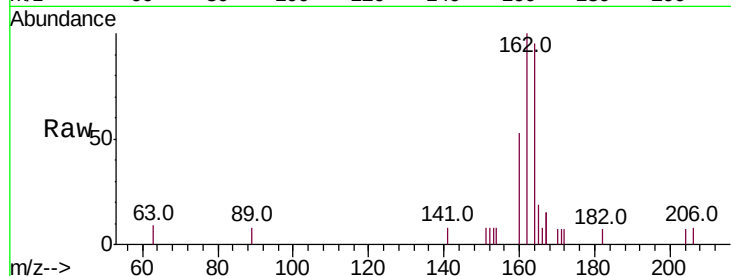
Tot Ion:154 Resp: 6

Ion Ratio Lower Upper

154 100

153 16.7 89.2 133.8#

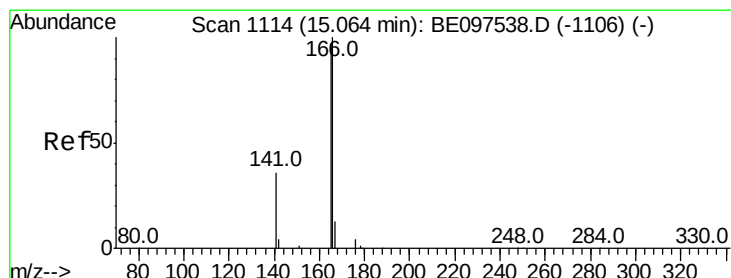
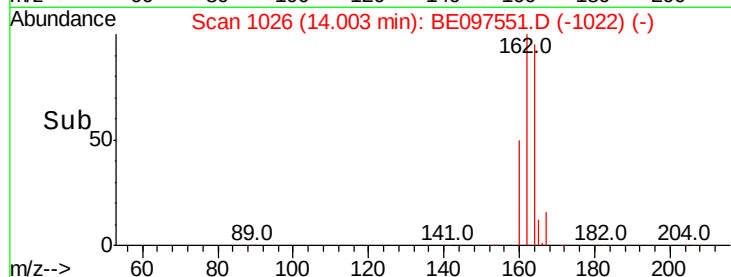
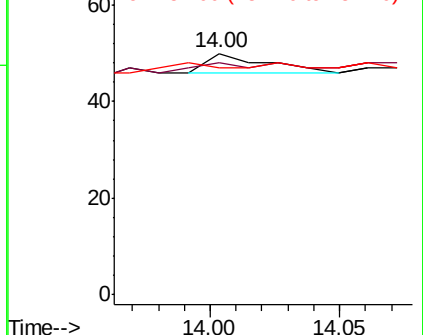
152 0.0 42.0 63.0#



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: 0.002 ng

RT: 15.10 min Scan# 1117

Delta R.T. 0.03 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

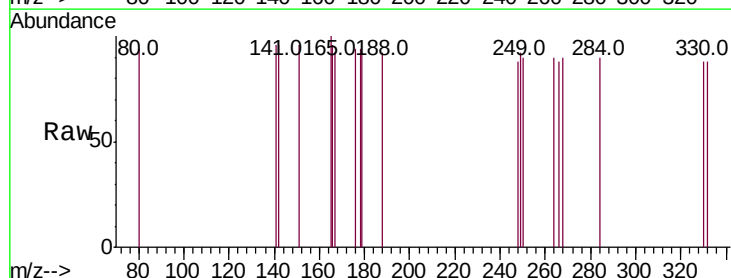
Tgt Ion:166 Resp: 8

Ion Ratio Lower Upper

166 100

165 50.0 77.8 116.6#

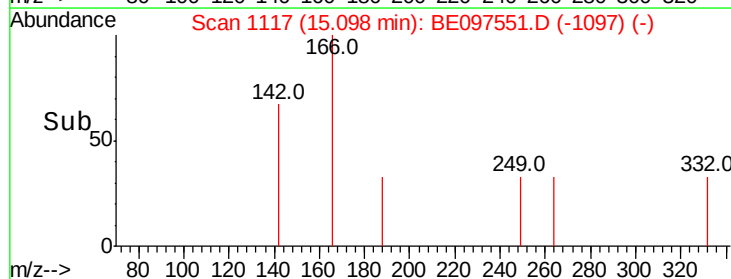
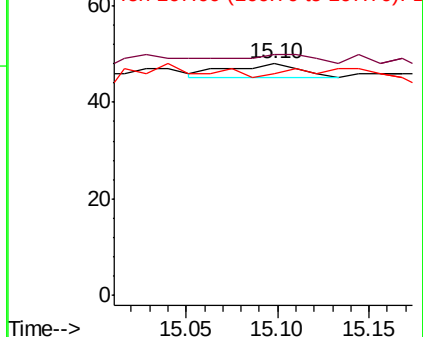
167 75.0 42.4 63.6#

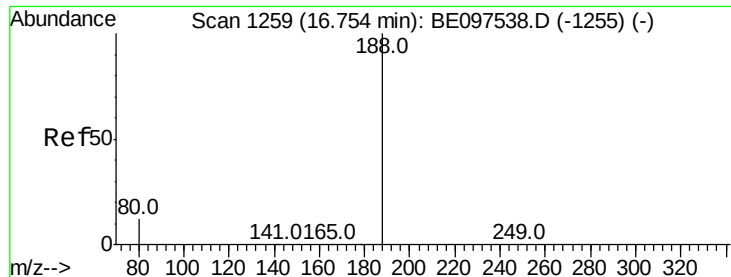


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.76 min Scan# 1260

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

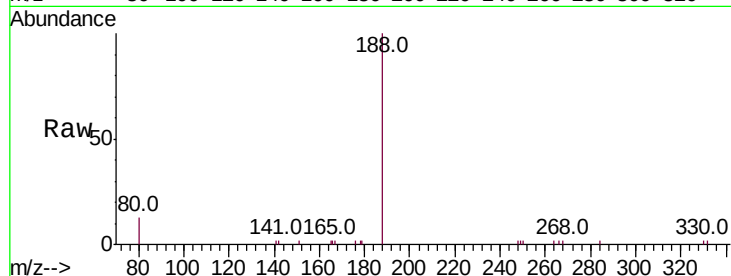
Tot Ion:188 Resp: 4460

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

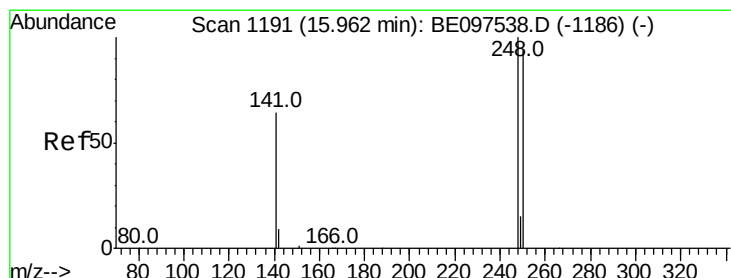
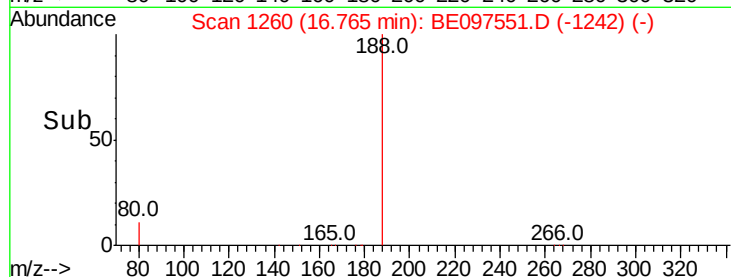
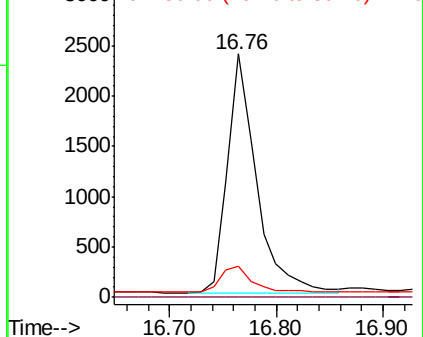
80 12.6 3.6 5.4#



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



#20

4-Bromophenyl-phenylether

Concen: 0.001 ng

RT: 15.96 min Scan# 1191

Delta R.T. -0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

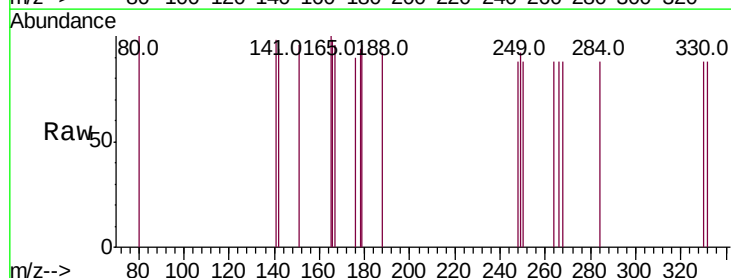
Tgt Ion:248 Resp: 3

Ion Ratio Lower Upper

248 100

250 100.0 62.7 94.1#

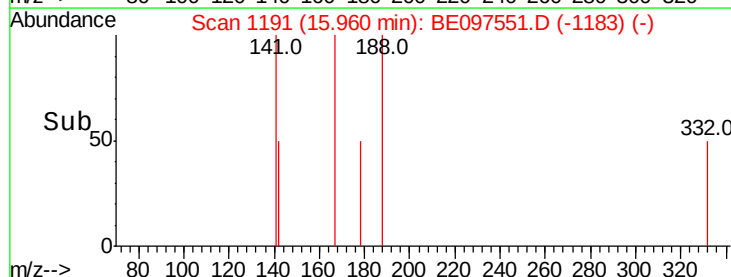
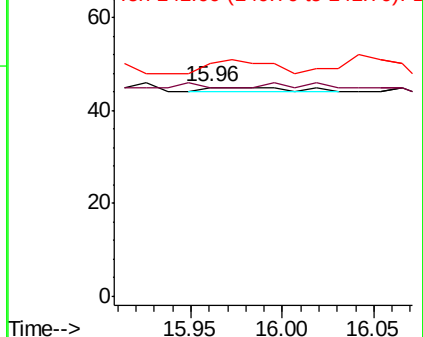
141 111.1 48.2 72.2#

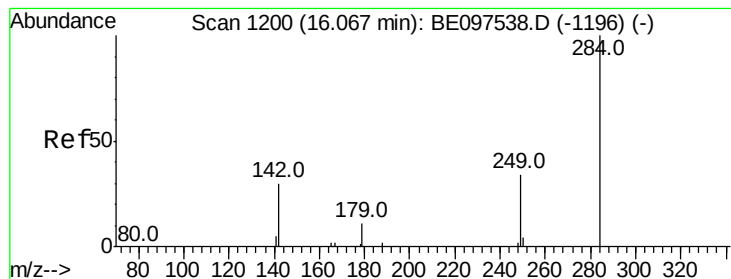


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.000 ng

RT: 16.09 min Scan# 1202

Delta R.T. 0.02 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

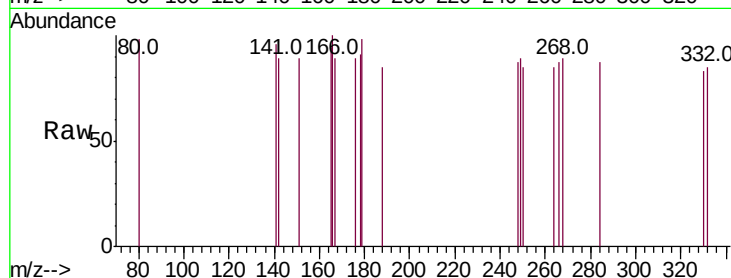
Tot Ion:284 Resp: 1

Ion Ratio Lower Upper

284 100

142 0.0 22.1 33.1#

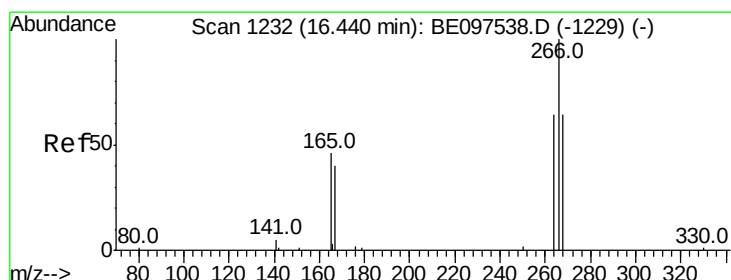
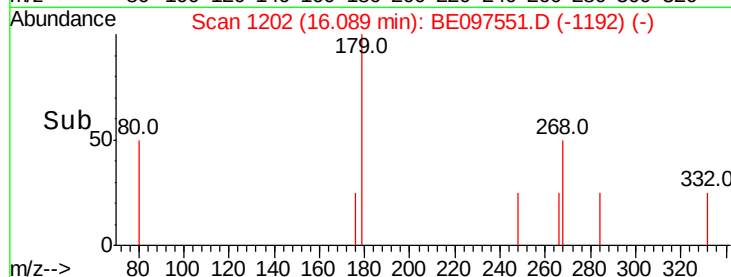
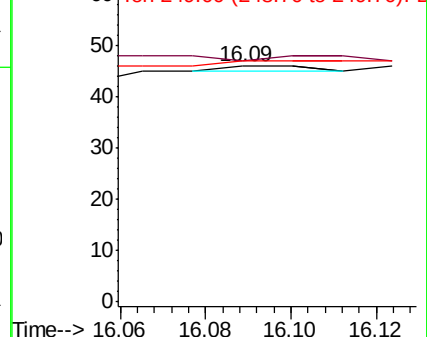
249 300.0 34.8 52.2#



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: 0.136 ng

RT: 16.46 min Scan# 1234

Delta R.T. 0.02 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

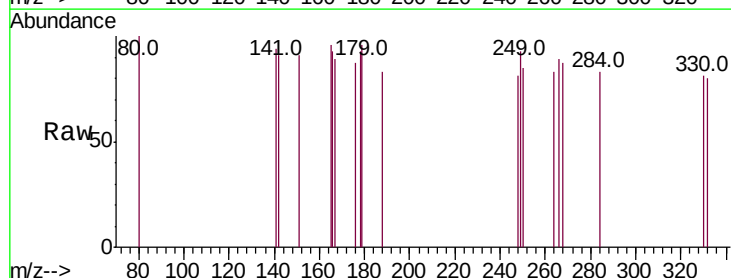
Tgt Ion:266 Resp: 6

Ion Ratio Lower Upper

266 100

264 93.8 72.5 108.7

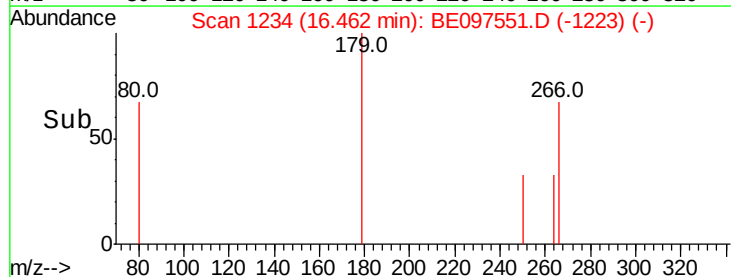
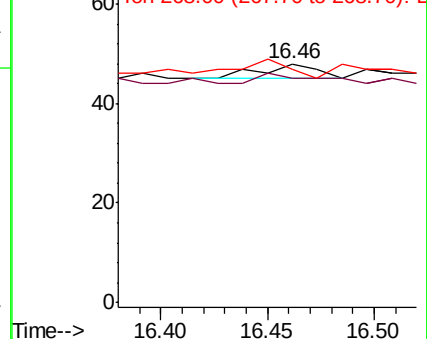
268 97.9 73.8 110.6

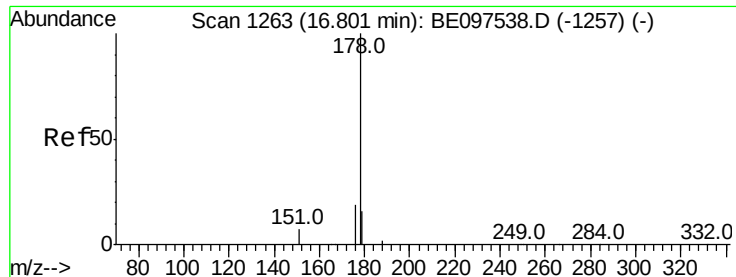


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.003 ng

RT: 16.81 min Scan# 1264

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

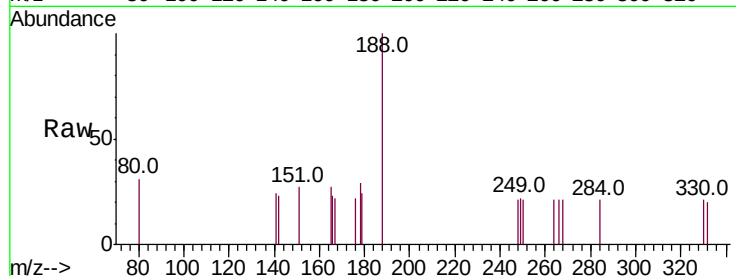
Tot Ion:178 Resp: 34

Ion Ratio Lower Upper

178 100

176 23.5 15.1 22.7#

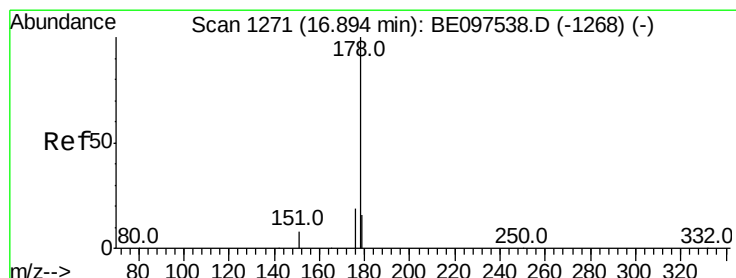
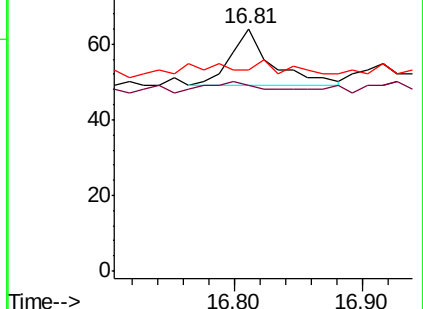
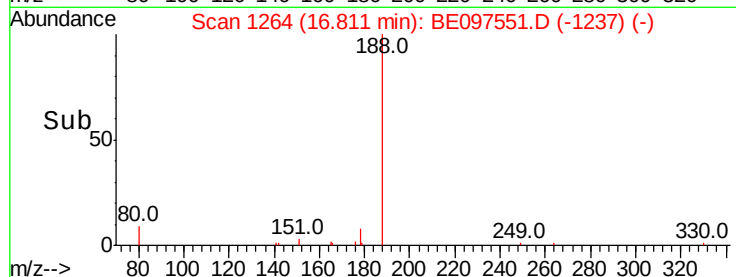
179 0.0 11.8 17.6#



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



#24

Anthracene

Concen: 0.001 ng

RT: 16.92 min Scan# 1273

Delta R.T. 0.02 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

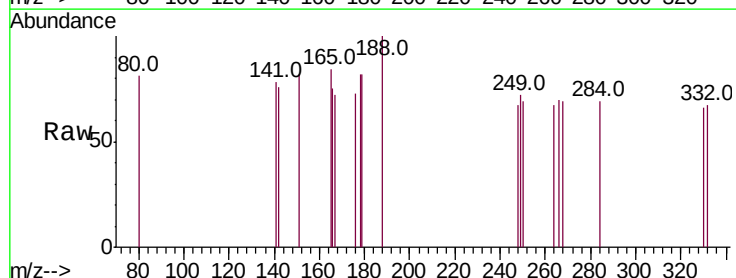
Tgt Ion:178 Resp: 11

Ion Ratio Lower Upper

178 100

176 54.5 12.8 19.2#

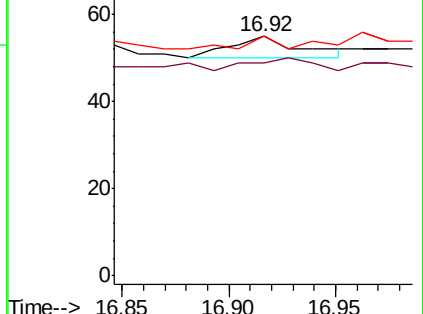
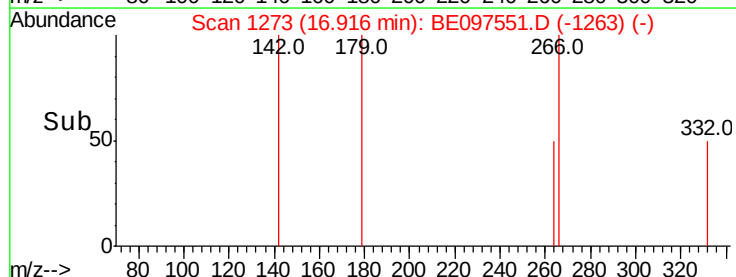
179 27.3 13.0 19.6#

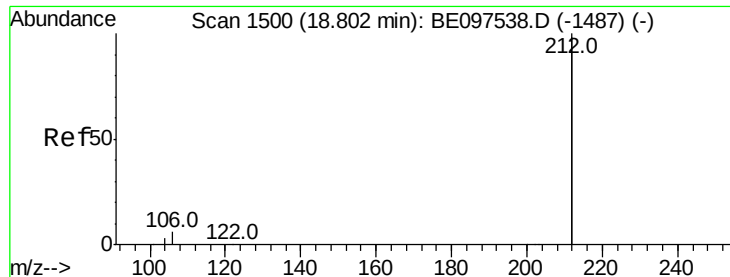


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.412 ng

RT: 18.80 min Scan# 1501

Delta R.T. 0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

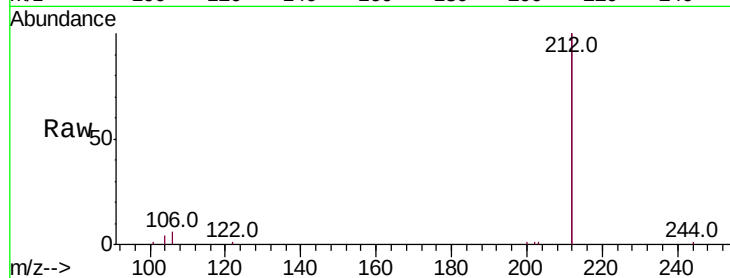
Tot Ion:212 Resp: 23530

Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

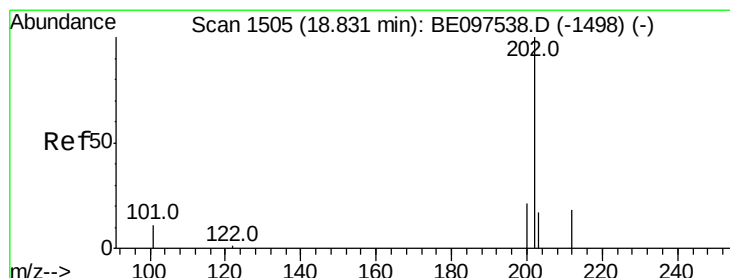
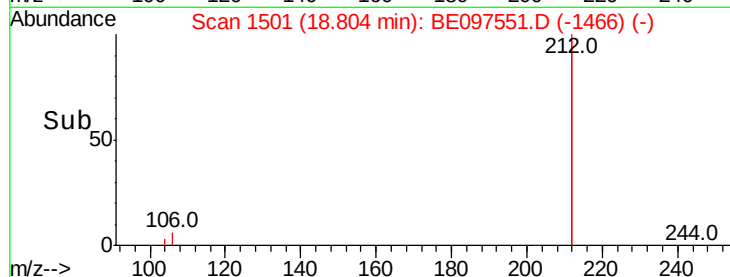
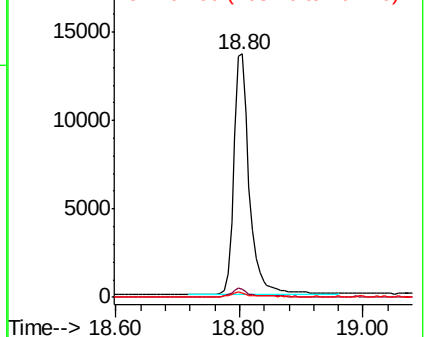
104 1.7 1.6 2.4



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: 0.002 ng

RT: 18.84 min Scan# 1507

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

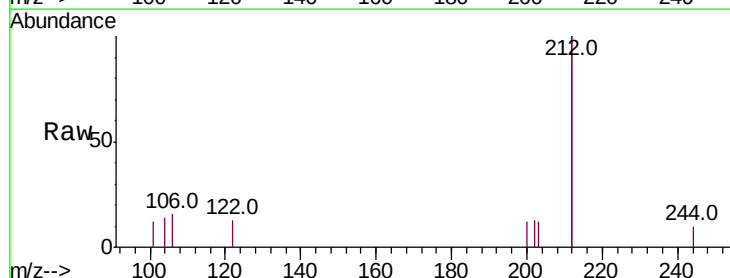
Tgt Ion:202 Resp: 24

Ion Ratio Lower Upper

202 100

101 0.0 9.8 14.8#

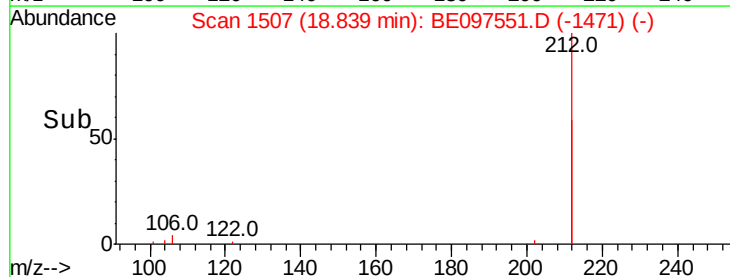
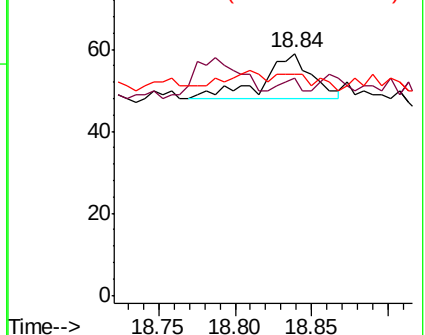
203 33.3 13.7 20.5#

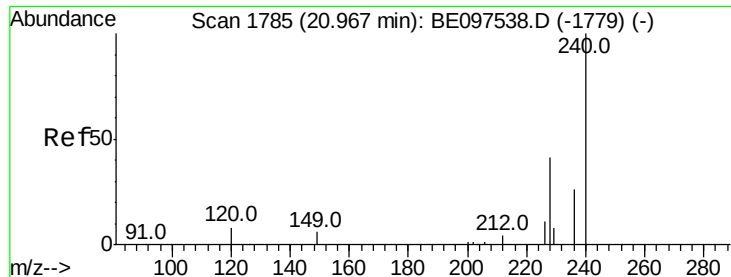


Abundance Ion 202.00 (201.70 to 202.70): E

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: 20.97 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

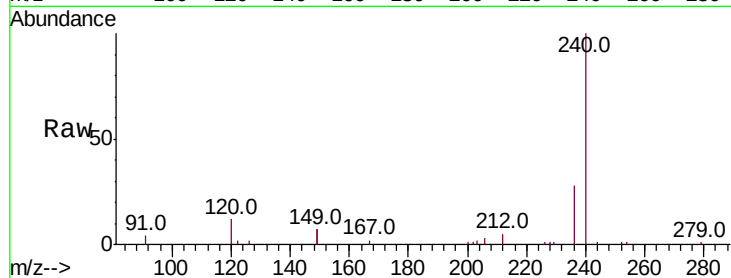
Tot Ion:240 Resp: 7483

Ion Ratio Lower Upper

240 100

120 11.5 5.5 8.3#

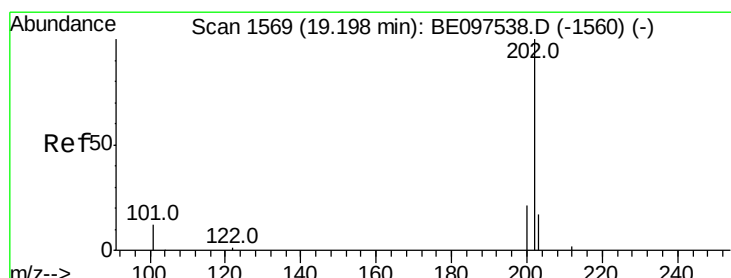
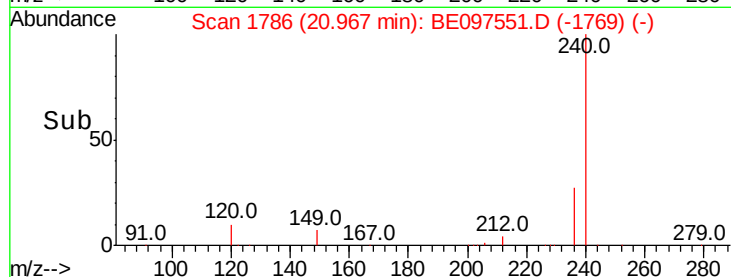
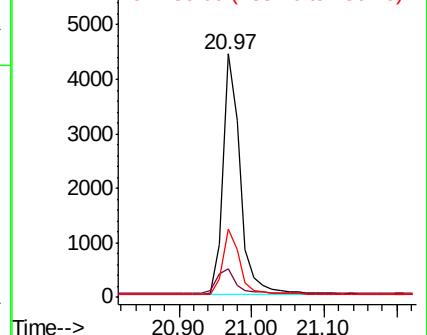
236 27.9 20.7 31.1



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



#28

Pyrene

Concen: 0.002 ng

RT: 19.20 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

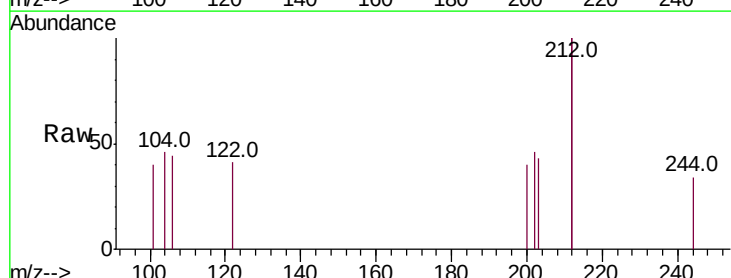
Tgt Ion:202 Resp: 26

Ion Ratio Lower Upper

202 100

200 15.4 16.6 25.0#

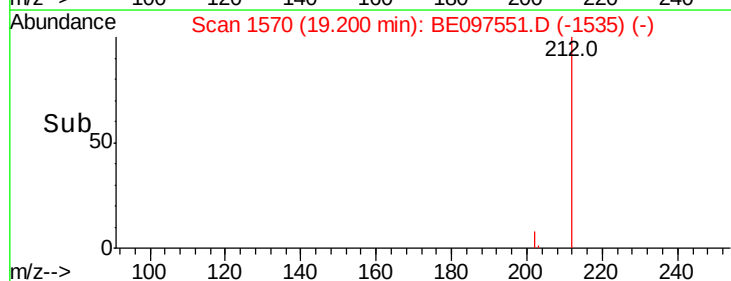
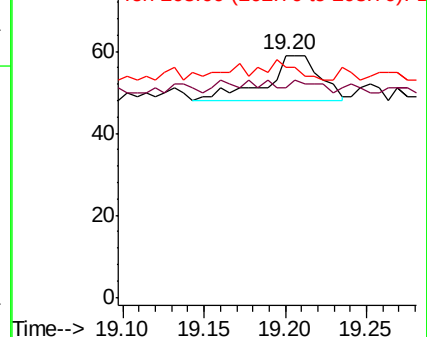
203 23.1 13.8 20.8#



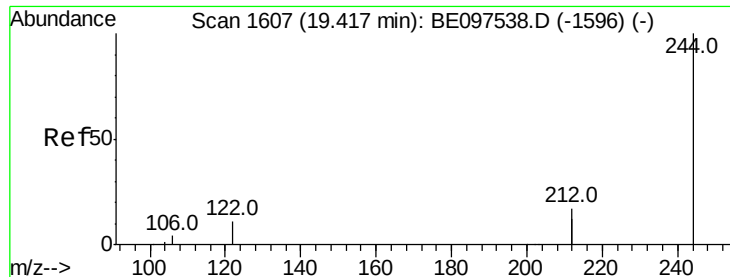
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.424 ng

RT: 19.41 min Scan# 1607

Delta R.T. -0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

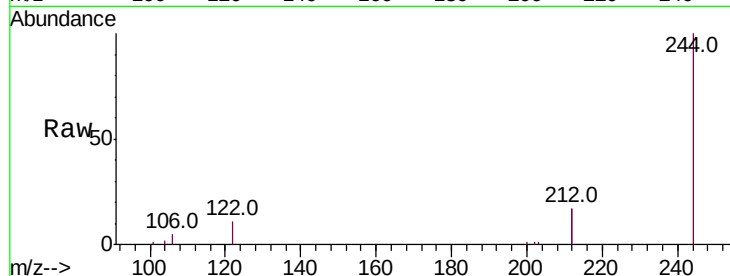
Tot Ion:244 Resp: 5812

Ion Ratio Lower Upper

244 100

212 34.1 25.4 38.0

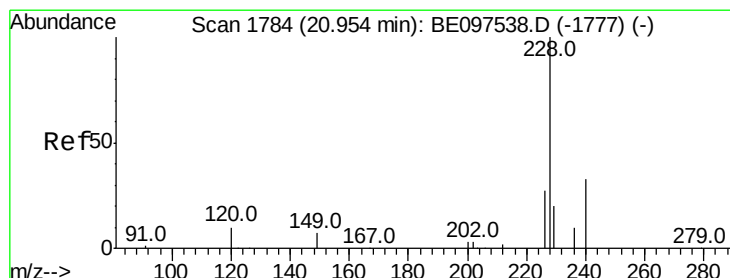
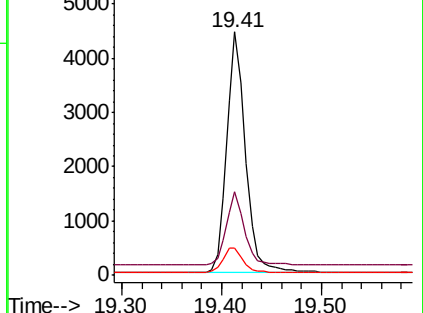
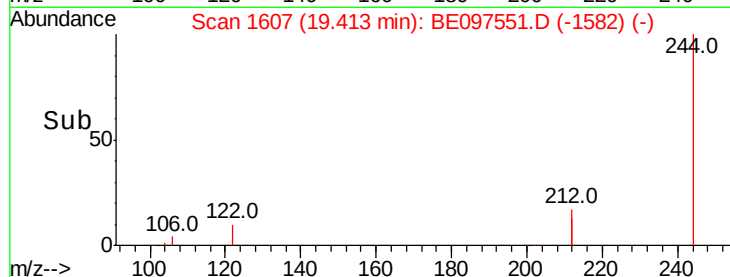
122 11.3 8.1 12.1



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



#30

Benzo(a)anthracene

Concen: 0.003 ng

RT: 20.97 min Scan# 1786

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

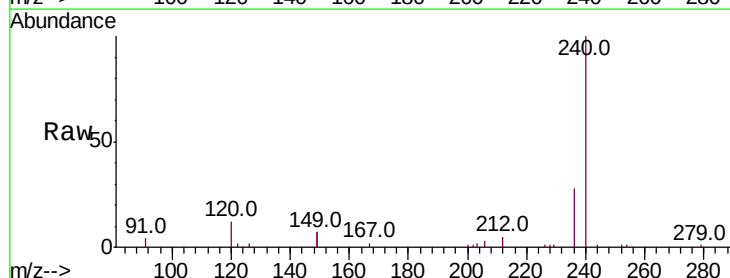
Tgt Ion:228 Resp: 52

Ion Ratio Lower Upper

228 100

226 82.8 24.0 36.0#

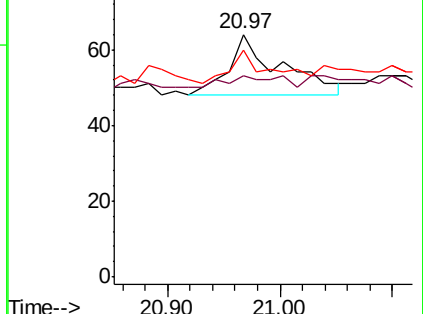
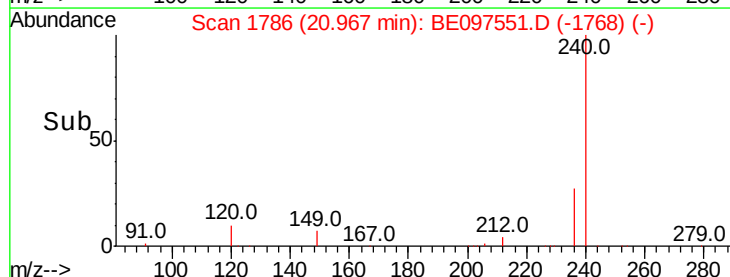
229 93.8 16.0 24.0#

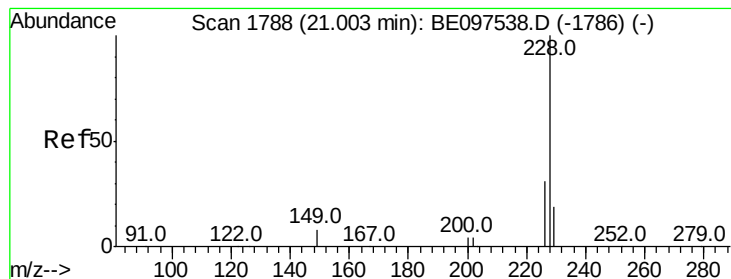


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.002 ng

RT: 20.97 min Scan# 1786

Delta R.T. -0.04 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

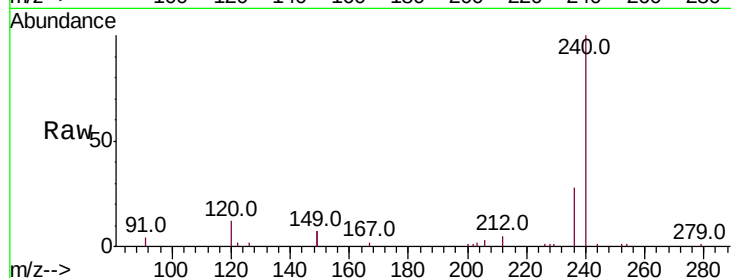
BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

Tot Ion:228 Resp: 36

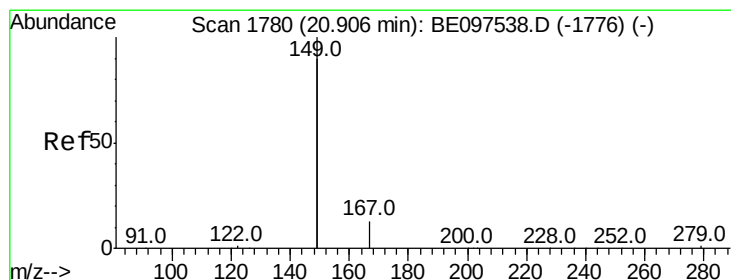
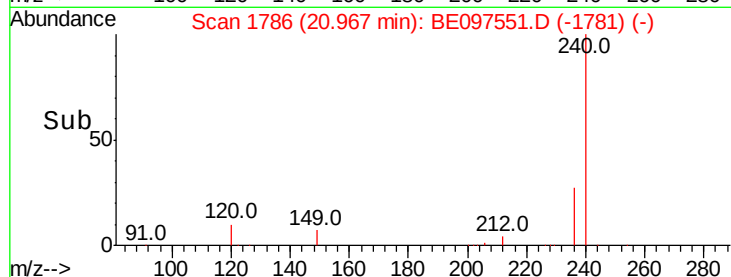
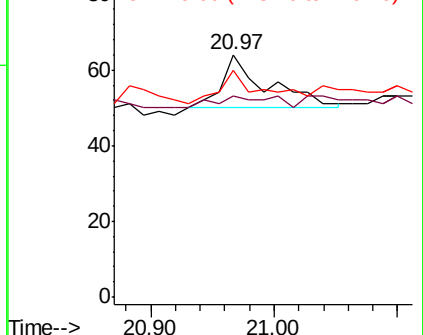
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 82.8  | 24.0  | 36.0# |
| 229 | 93.8  | 16.0  | 24.0# |



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: 0.052 ng

RT: 20.91 min Scan# 1781

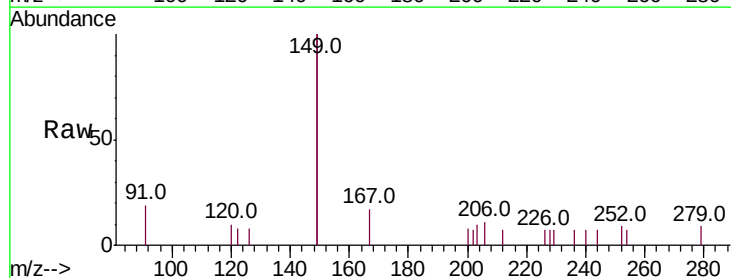
Delta R.T. 0.00 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Tgt Ion:149 Resp: 1299

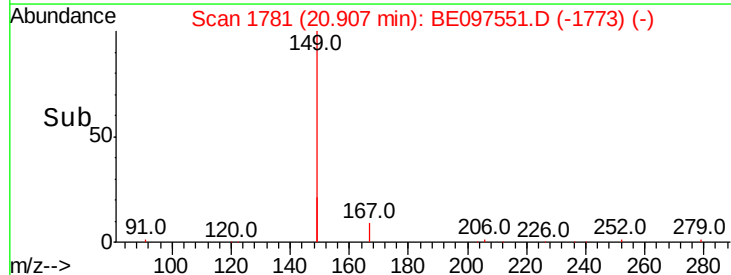
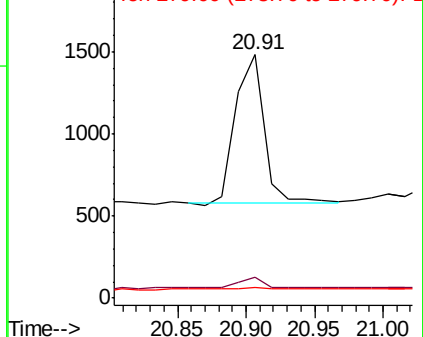
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.5   | 5.4   | 8.0   |
| 279 | 1.7   | 0.7   | 1.1#  |

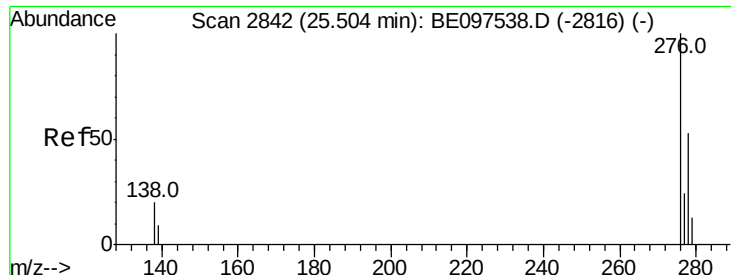


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.000 ng

RT: 25.52 min Scan# 2847

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

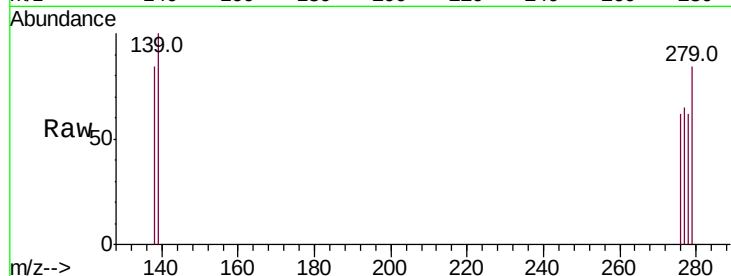
Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

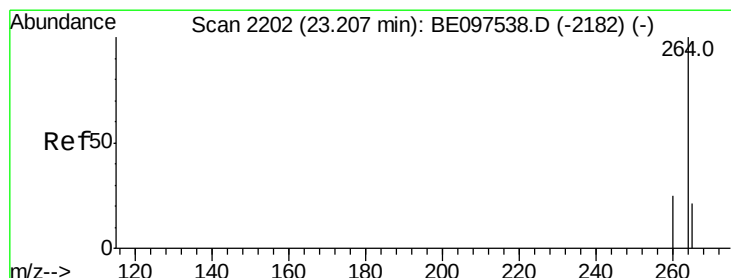
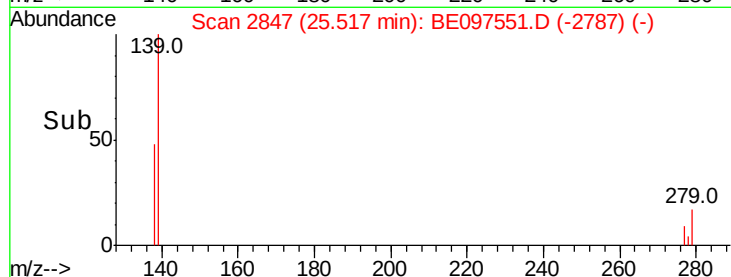
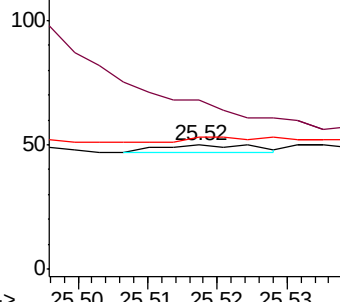
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:276 | Resp: | 3           |
| Ion         | Ratio | Lower Upper |
| 276         | 100   |             |
| 138         | 0.0   | 22.5 33.7#  |
| 277         | 66.7  | 19.9 29.9#  |



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

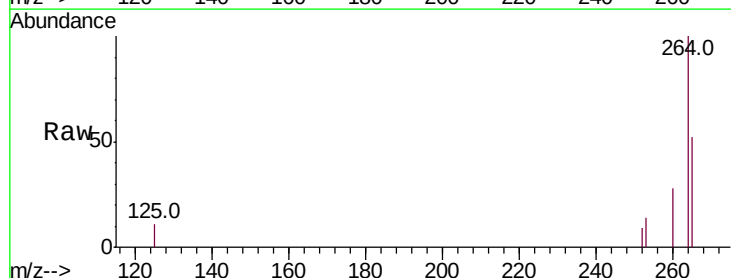
RT: 23.21 min Scan# 2205

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

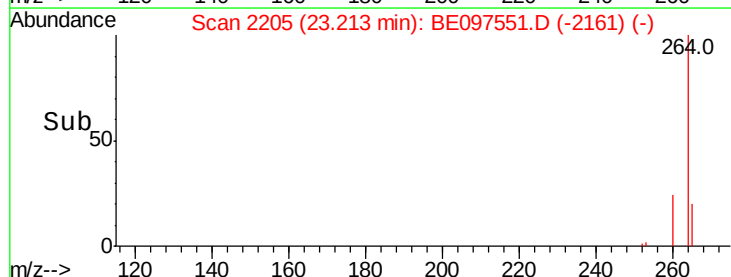
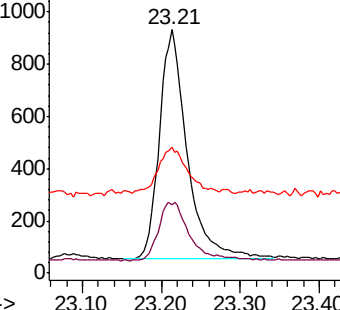
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:264 | Resp: | 2149        |
| Ion         | Ratio | Lower Upper |
| 264         | 100   |             |
| 260         | 28.2  | 20.5 30.7   |
| 265         | 51.8  | 22.8 34.2#  |

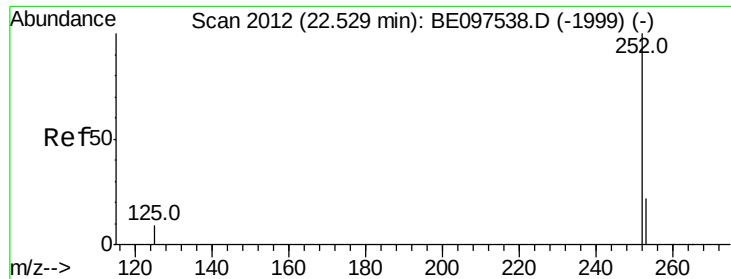


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

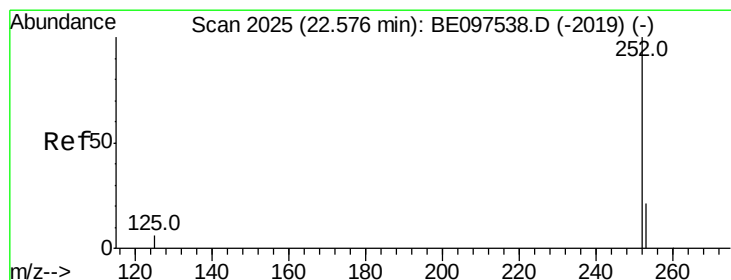
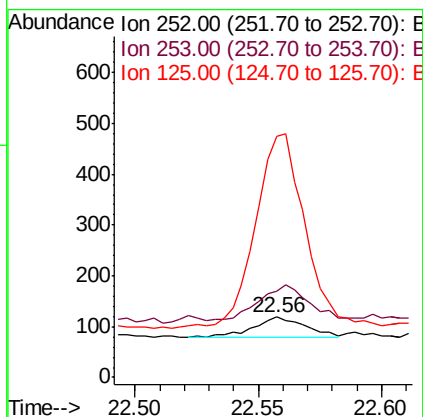
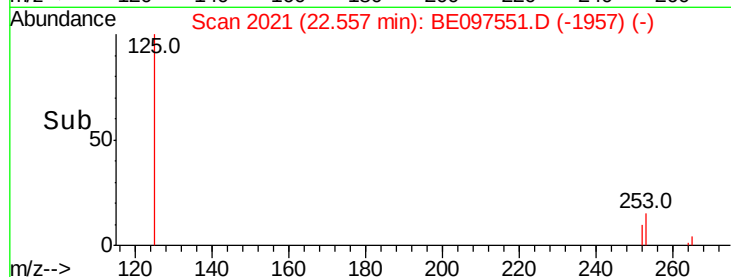
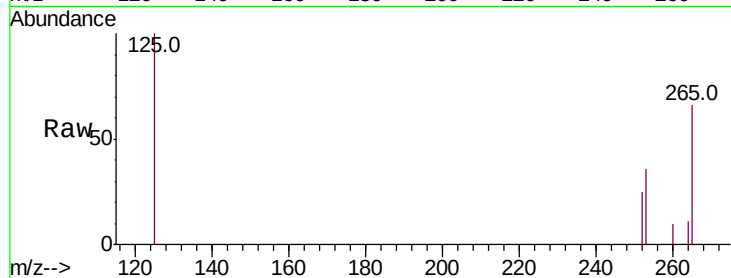




#35  
Benzo(b)fluoranthene  
Concen: 0.011 ng  
RT: 22.56 min Scan# 2021  
Delta R.T. 0.03 min  
Lab File: BE097551.D  
Acq: 19 Sep 2018 21:53

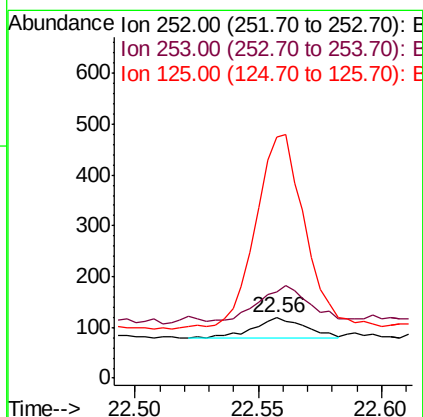
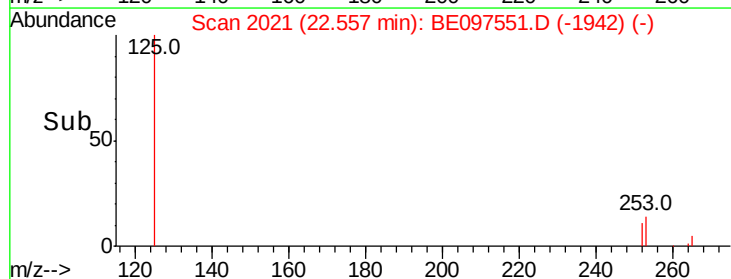
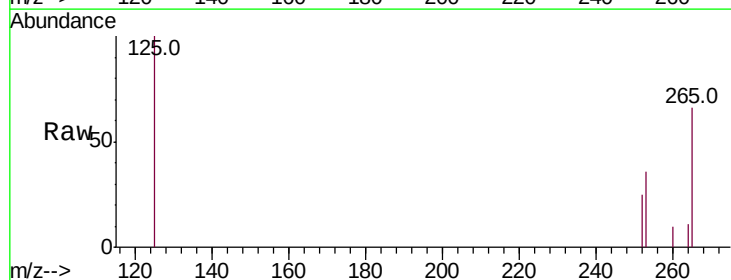
Instrument :  
BNA\_E  
ClientSampleId :  
BPSI-TT-MW306I-20180914

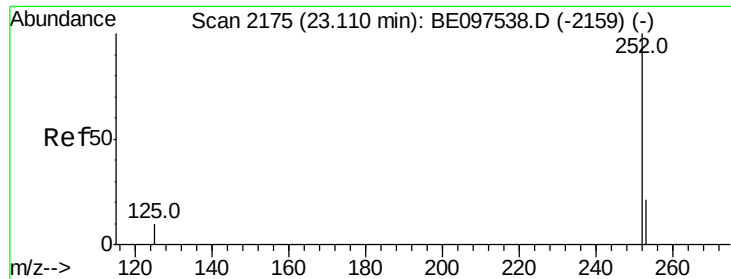
Tot Ion:252 Resp: 60  
Ion Ratio Lower Upper  
252 100  
253 142.9 20.0 30.0#  
125 398.3 16.0 24.0#



#36  
Benzo(k)fluoranthene  
Concen: 0.010 ng  
RT: 22.56 min Scan# 2021  
Delta R.T. -0.02 min  
Lab File: BE097551.D  
Acq: 19 Sep 2018 21:53

Tgt Ion:252 Resp: 60  
Ion Ratio Lower Upper  
252 100  
253 142.9 16.0 24.0#  
125 398.3 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.021 ng

RT: 23.10 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914

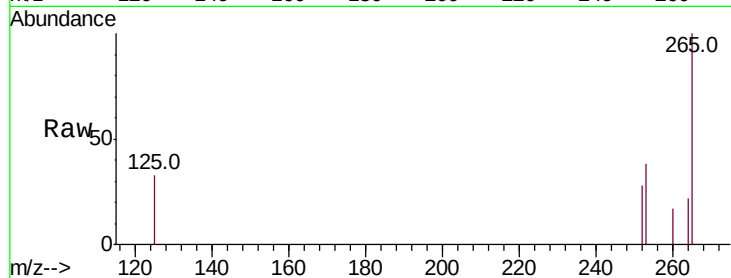
Tot Ion:252 Resp: 4

Ion Ratio Lower Upper

252 100

253 138.1 16.0 24.0#

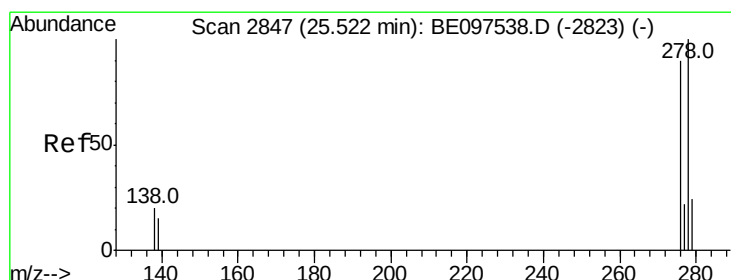
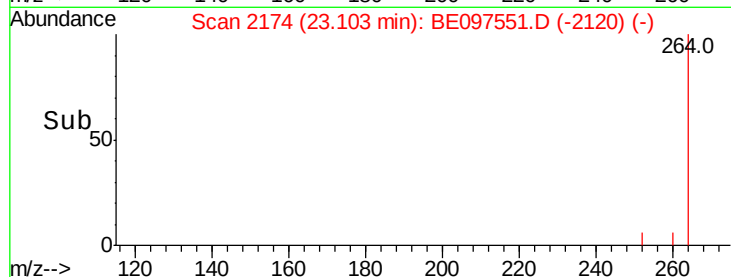
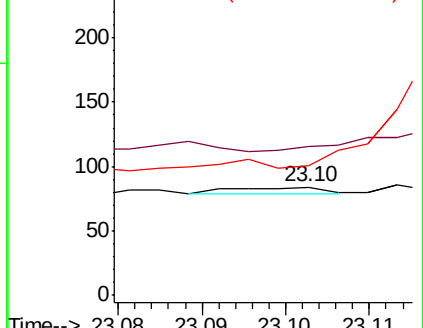
125 120.2 12.0 18.0#



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: 0.001 ng

RT: 25.53 min Scan# 2850

Delta R.T. 0.01 min

Lab File: BE097551.D

Acq: 19 Sep 2018 21:53

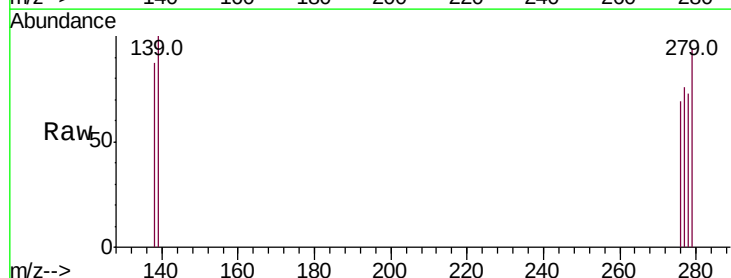
Tgt Ion:278 Resp: 3

Ion Ratio Lower Upper

278 100

139 137.3 16.0 24.0#

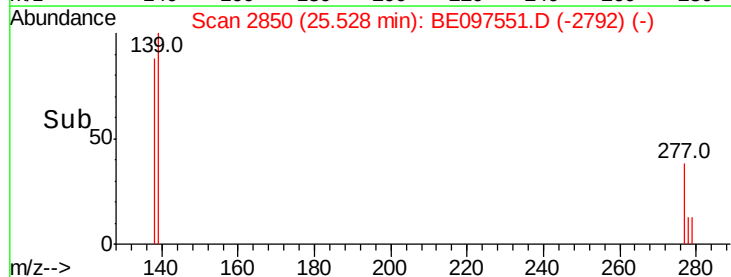
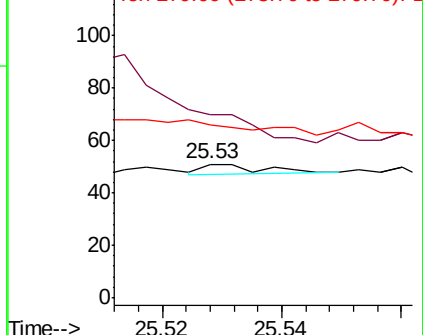
279 129.4 20.0 30.0#

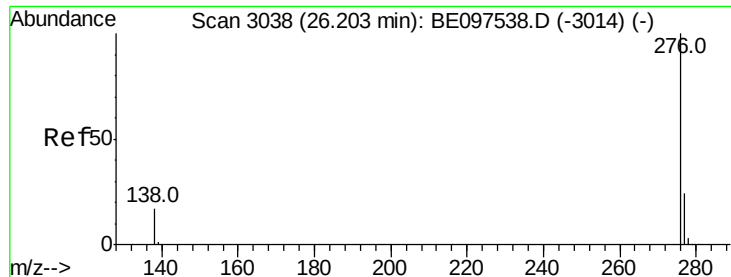


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.000 ng

RT: 26.21 min Scan# 3040

Delta R.T. 0.00 min

Lab File: BE097551.D

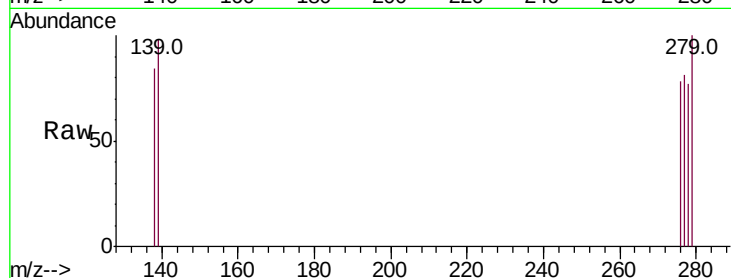
Acq: 19 Sep 2018 21:53

Instrument :

BNA\_E

ClientSampleId :

BPSI-TT-MW306I-20180914



Tot Ion:276 Resp: 1

Ion Ratio Lower Upper

276 100

277 104.0 16.0 24.0#

138 108.0 20.0 30.0#

