

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE082318\  
 Data File : BE097355.D  
 Acq On : 23 Aug 2018 11:29  
 Operator : SJ/JU  
 Sample : PB112113BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Aug 23 12:29:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE082218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 22 18:07:26 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 1274     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.13 | 136  | 5473     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.01 | 164  | 2372     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.76 | 188  | 5295     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.97 | 240  | 5047     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 4860     | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.05  | 112  | 1070     | 0.28 | ng    | 0.00     |
| 5) Phenol-d6                | 6.59  | 99   | 1293     | 0.26 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.52  | 82   | 1298     | 0.33 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.72 | 152  | 2798     | 0.37 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330  | 112      | 0.14 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.62 | 172  | 3565     | 0.41 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.80 | 212  | 14814    | 0.24 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.42 | 244  | 3572     | 0.38 | ng    | 0.00     |

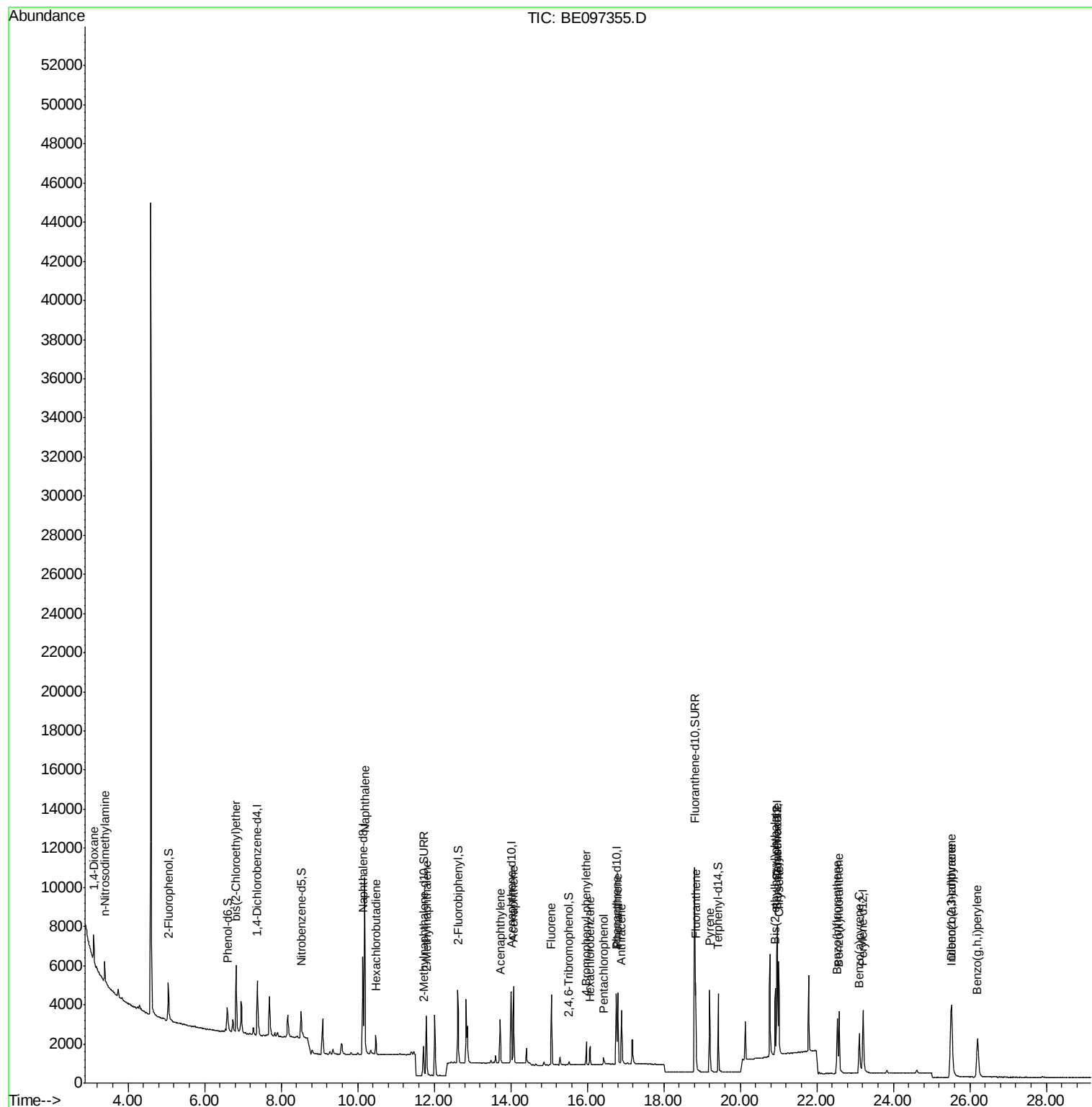
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.09  | 88   | 549      | 0.243 | ng    | # 28   |
| 3) n-Nitrosodimethylamine      | 3.38  | 42   | 655      | 0.310 | ng    | # 94   |
| 6) bis(2-Chloroethyl)ether     | 6.83  | 93   | 1253     | 0.270 | ng    | 93     |
| 9) Naphthalene                 | 10.18 | 128  | 15265    | 0.306 | ng    | 99     |
| 10) Hexachlorobutadiene        | 10.47 | 225  | 638      | 0.286 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 11.79 | 142  | 2308     | 0.294 | ng    | 99     |
| 16) Acenaphthylene             | 13.73 | 152  | 2662     | 0.282 | ng    | 99     |
| 17) Acenaphthene               | 14.07 | 154  | 1855     | 0.295 | ng    | 95     |
| 18) Fluorene                   | 15.06 | 166  | 2197     | 0.276 | ng    | # 80   |
| 20) 4-Bromophenyl-phenylether  | 15.97 | 248  | 713      | 0.296 | ng    | # 79   |
| 21) Hexachlorobenzene          | 16.08 | 284  | 806      | 0.303 | ng    | # 84   |
| 22) Pentachlorophenol          | 16.44 | 266  | 305      | 0.497 | ng    | 85     |
| 23) Phenanthrene               | 16.80 | 178  | 3805     | 0.302 | ng    | 98     |
| 24) Anthracene                 | 16.89 | 178  | 3160     | 0.295 | ng    | # 95   |
| 26) Fluoranthene               | 18.83 | 202  | 4062     | 0.257 | ng    | 99     |
| 28) Pyrene                     | 19.20 | 202  | 4055     | 0.338 | ng    | 99     |
| 30) Benzo(a)anthracene         | 20.95 | 228  | 3629     | 0.284 | ng    | 98     |
| 31) Chrysene                   | 21.00 | 228  | 4178     | 0.304 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149  | 3952     | 0.303 | ng    | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.50 | 276  | 5561     | 0.305 | ng    | # 93   |
| 35) Benzo(b)fluoranthene       | 22.53 | 252  | 3771     | 0.294 | ng    | # 92   |
| 36) Benzo(k)fluoranthene       | 22.58 | 252  | 4294     | 0.303 | ng    | # 89   |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 3478     | 0.277 | ng    | # 92   |
| 38) Dibenzo(a,h)anthracene     | 25.52 | 278  | 4762     | 0.315 | ng    | 98     |
| 39) Benzo(g,h,i)perylene       | 26.20 | 276  | 4924     | 0.314 | ng    | # 91   |

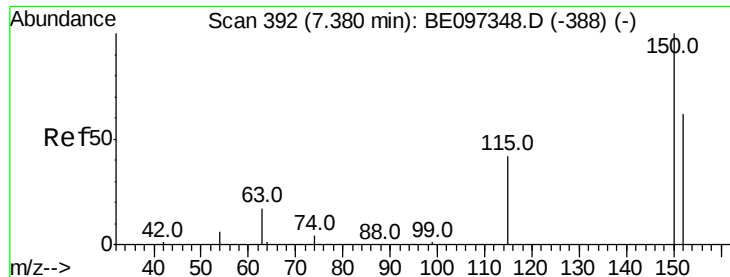
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 22 18:07:26 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.38 min Scan# 392

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

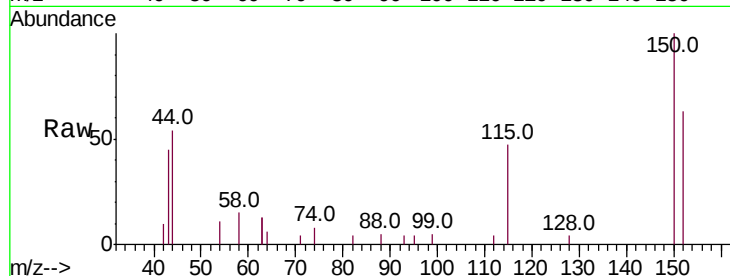
Tot Ion:152 Resp: 1274

Ion Ratio Lower Upper

152 100

150 159.4 117.2 175.8

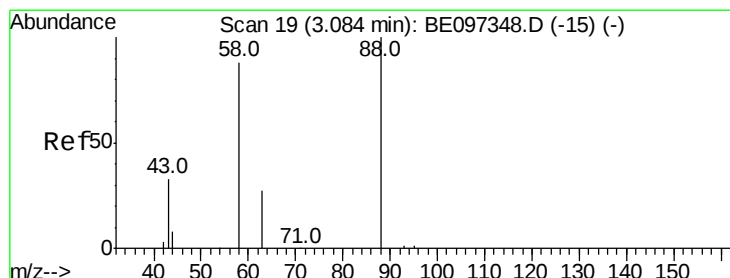
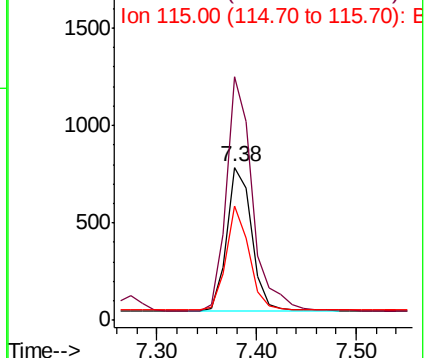
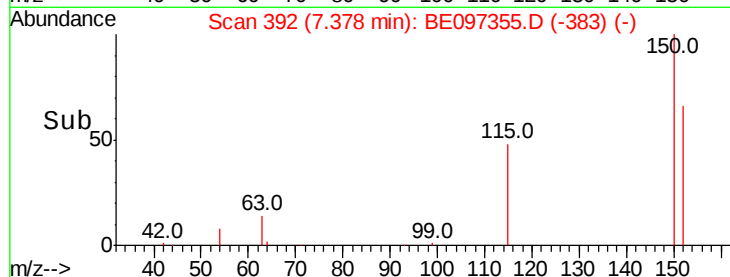
115 75.0 57.0 85.6



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: 0.243 ng

RT: 3.09 min Scan# 20

Delta R.T. 0.01 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

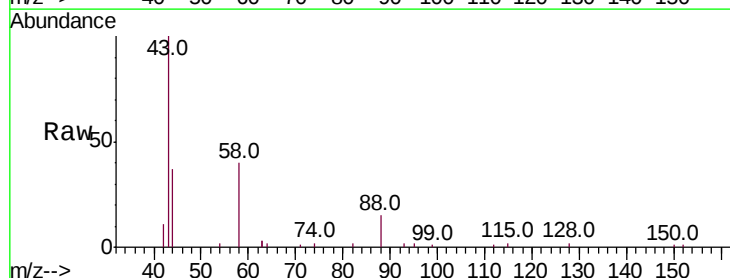
Tgt Ion: 88 Resp: 549

Ion Ratio Lower Upper

88 100

58 98.4 63.2 94.8#

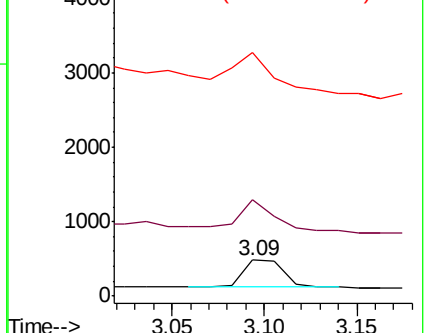
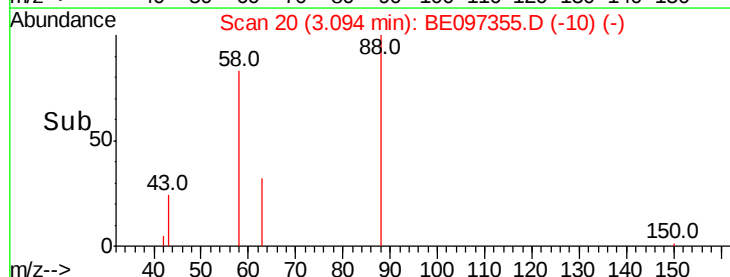
43 155.0 41.2 61.8#

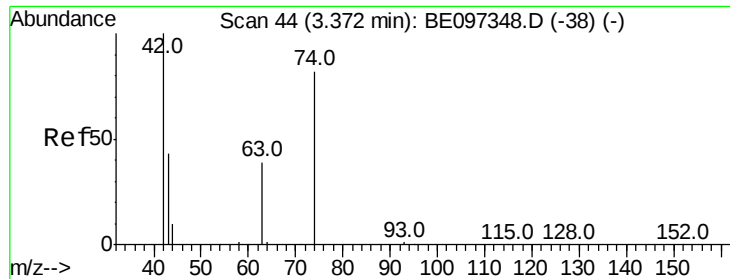


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



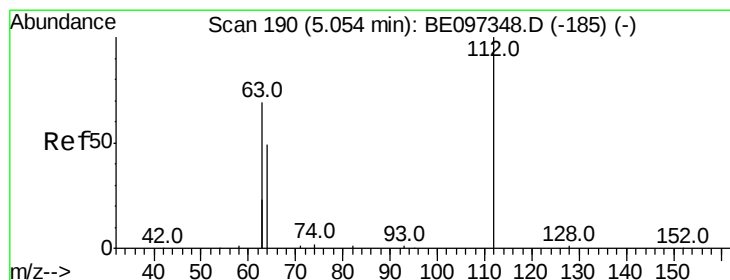
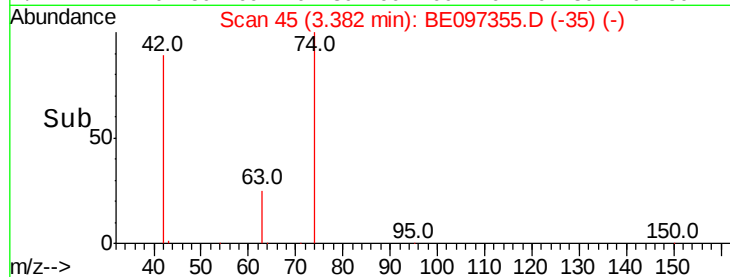
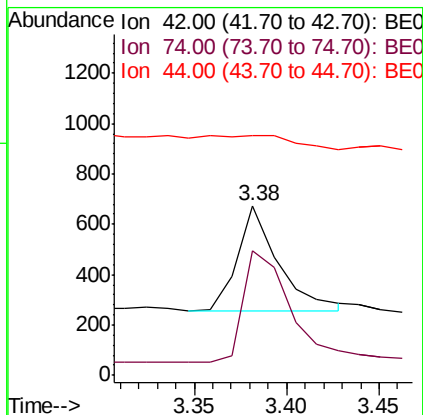
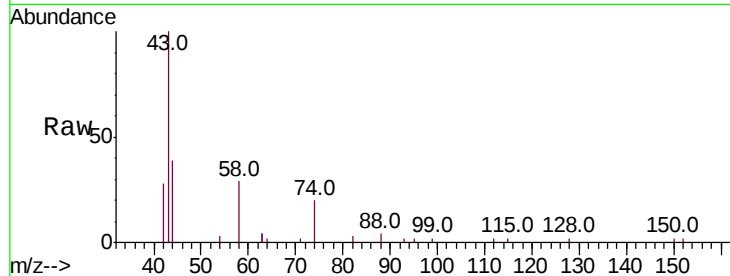


#3

n-Nitrosodimethylamine  
 Concen: 0.310 ng  
 RT: 3.38 min Scan# 45  
 Delta R.T. 0.01 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

Instrument :  
 BNA\_E  
 ClientSampled :

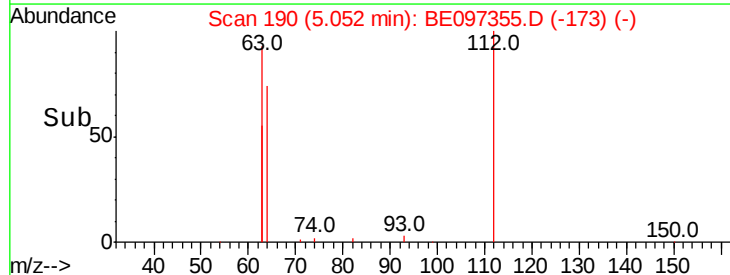
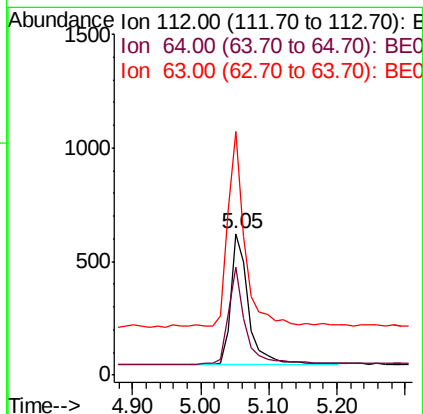
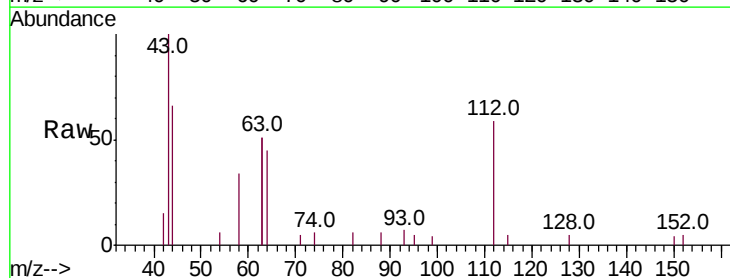
Tot Ion: 42 Resp: 655  
 Ion Ratio Lower Upper  
 42 100  
 74 117.6 96.0 144.0  
 44 0.0 12.0 18.0#

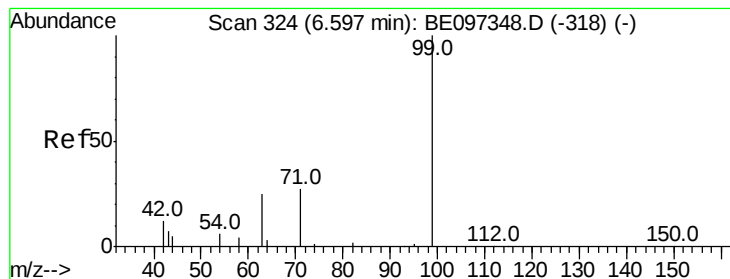


#4

2-Fluorophenol  
 Concen: 0.284 ng  
 RT: 5.05 min Scan# 190  
 Delta R.T. -0.00 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

Tgt Ion: 112 Resp: 1070  
 Ion Ratio Lower Upper  
 112 100  
 64 70.8 60.1 90.1  
 63 140.3 116.8 175.2





#5

Phenol-d6

Concen: 0.257 ng

RT: 6.59 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

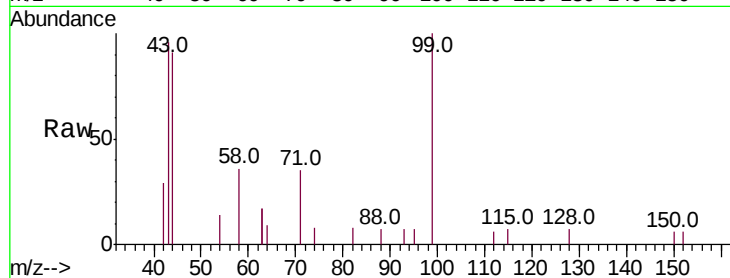
Tot Ion: 99 Resp: 1293

Ion Ratio Lower Upper

99 100

42 23.7 20.2 30.2

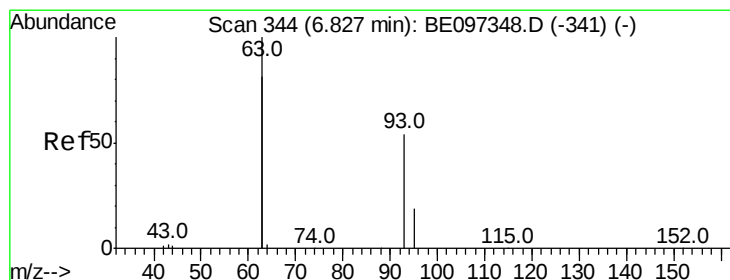
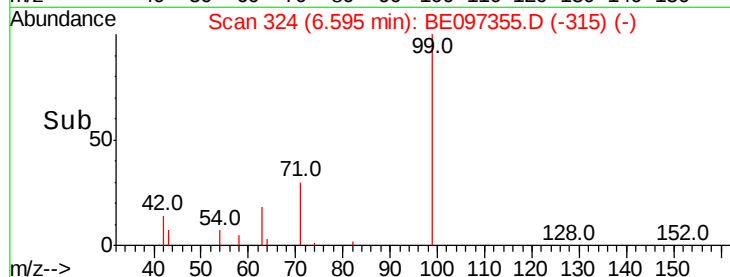
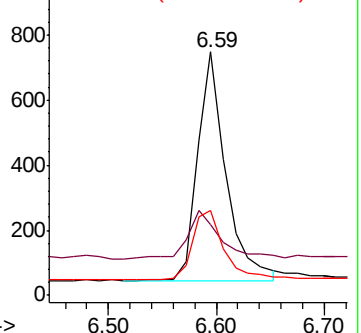
71 33.5 28.4 42.6



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



#6

bis(2-Chloroethyl)ether

Concen: 0.270 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

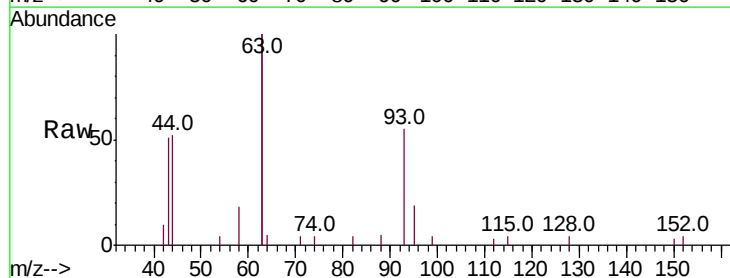
Tgt Ion: 93 Resp: 1253

Ion Ratio Lower Upper

93 100

63 326.9 275.3 412.9

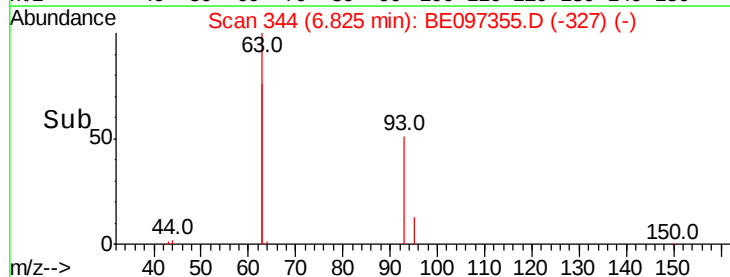
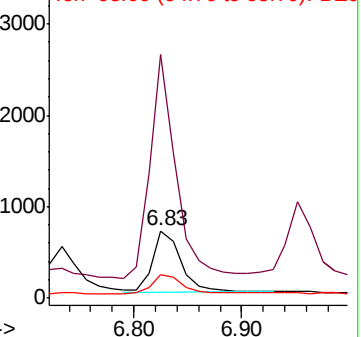
95 32.2 25.2 37.8

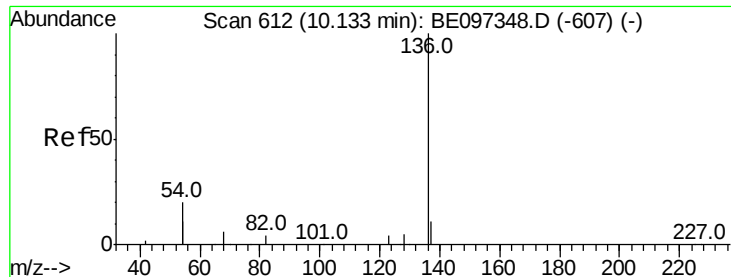


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.13 min Scan# 612

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 5473

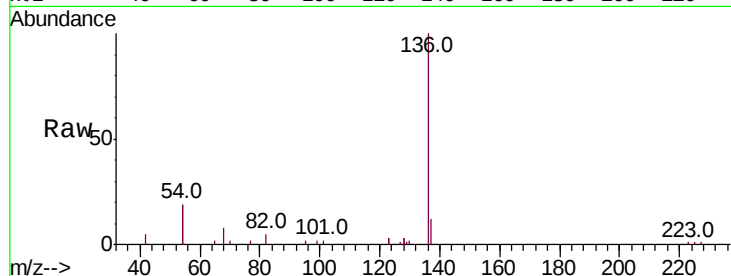
Ion Ratio Lower Upper

136 100

137 11.6 9.5 14.3

54 37.3 29.1 43.7

68 7.5 6.2 9.2

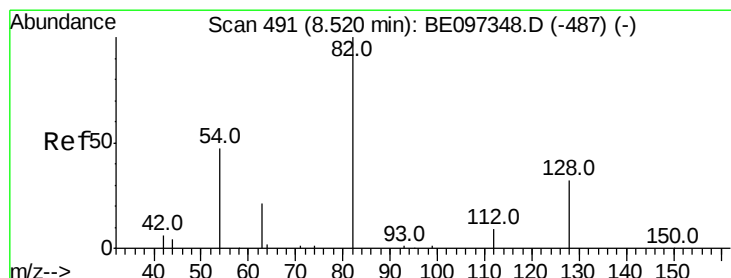
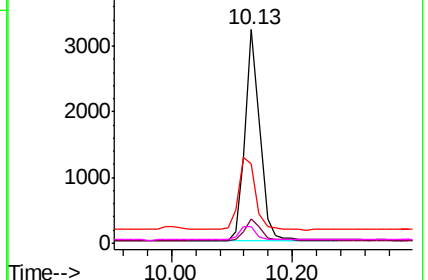
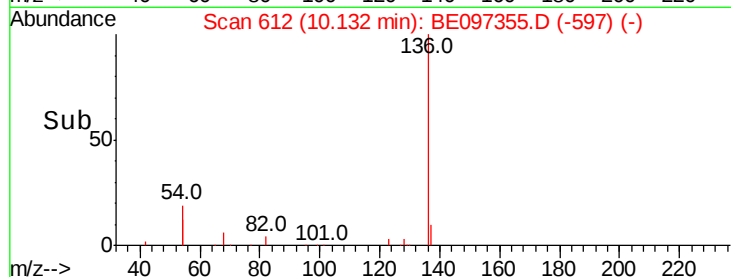


Abundance Ion 136.00 (135.70 to 136.70): E

5000 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: 0.331 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

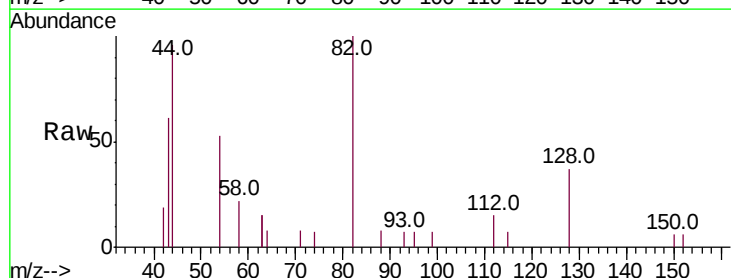
Tgt Ion: 82 Resp: 1298

Ion Ratio Lower Upper

82 100

128 36.9 24.0 36.0#

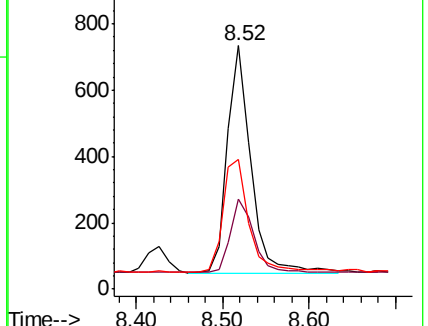
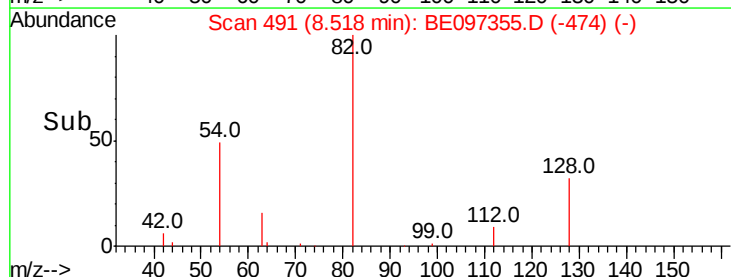
54 53.4 40.0 60.0

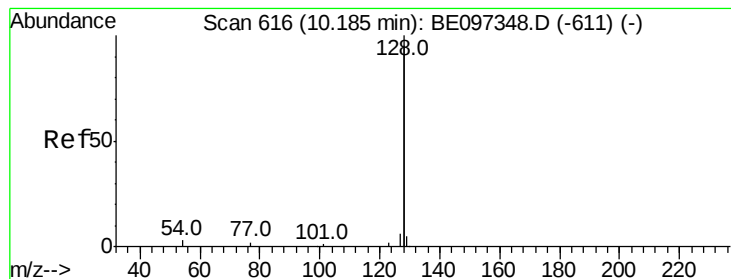


Abundance Ion 82.00 (81.70 to 82.70): BE0

1000 Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.306 ng

RT: 10.18 min Scan# 616

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampled :

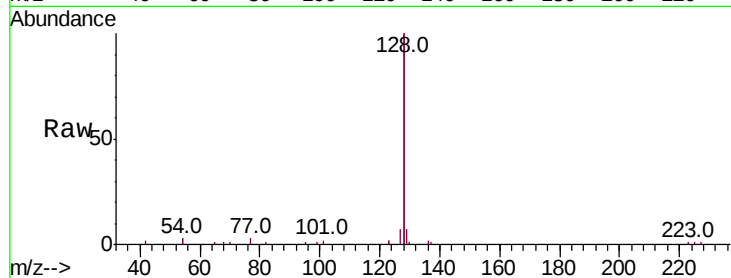
Tot Ion:128 Resp: 15265

Ion Ratio Lower Upper

128 100

129 3.3 2.6 3.8

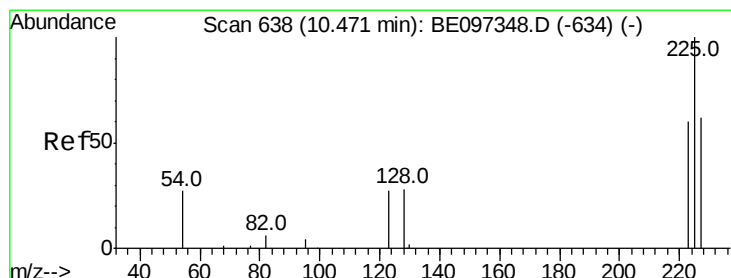
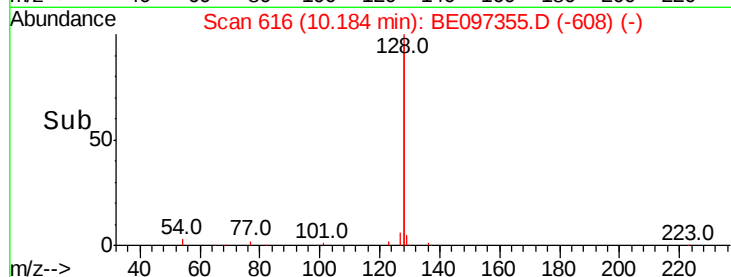
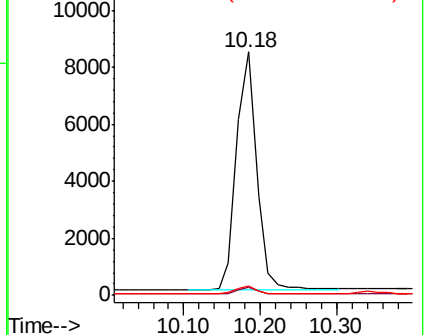
127 3.7 2.8 4.2



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

Hexachlorobutadiene

Concen: 0.286 ng

RT: 10.47 min Scan# 638

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

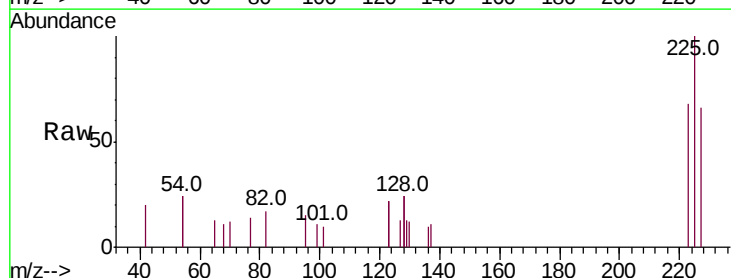
Tgt Ion:225 Resp: 638

Ion Ratio Lower Upper

225 100

223 64.6 53.0 79.6

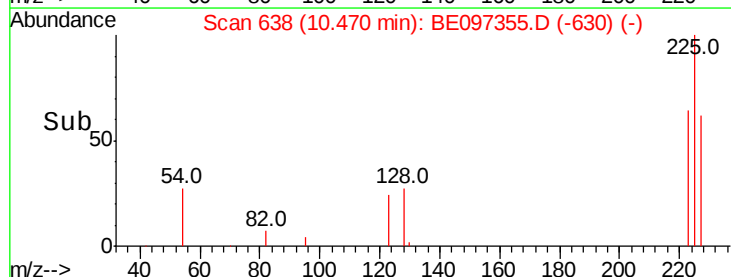
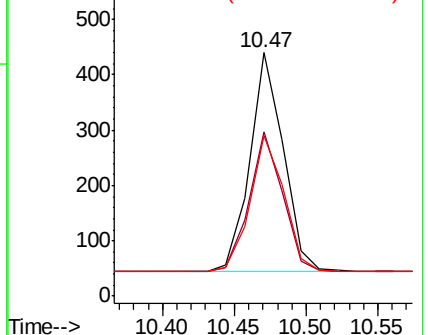
227 63.3 51.4 77.2

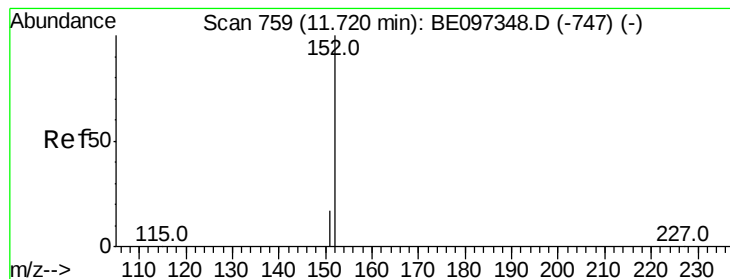


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.367 ng

RT: 11.72 min Scan# 759

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

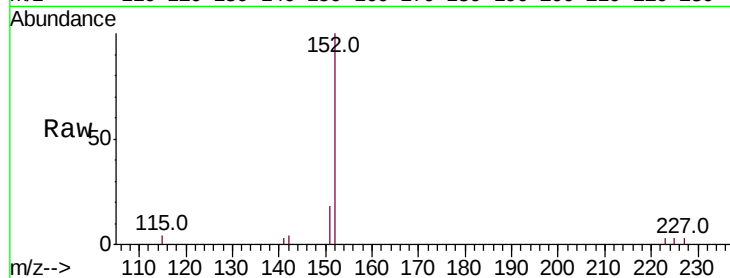
ClientSampleId :

Tot Ion:152 Resp: 2798

Ion Ratio Lower Upper

152 100

151 13.3 15.4 23.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.72

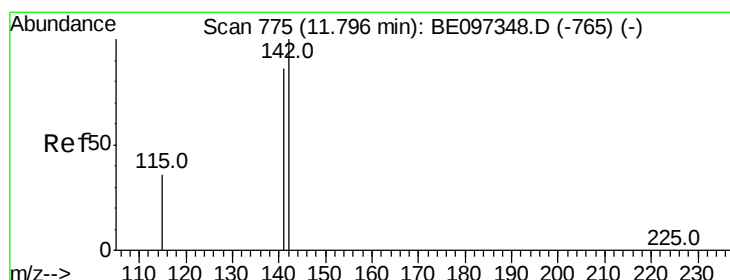
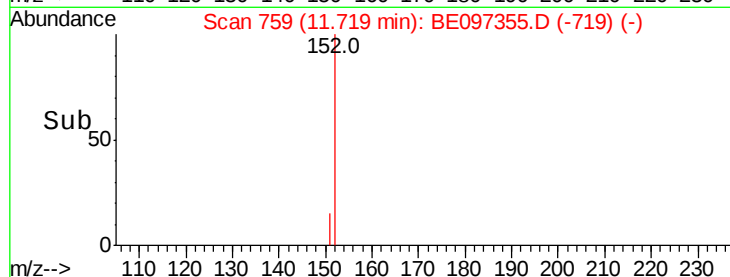
1500

1000

500

0

Time--> 11.60 11.70 11.80



#12

2-Methylnaphthalene

Concen: 0.294 ng

RT: 11.79 min Scan# 775

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

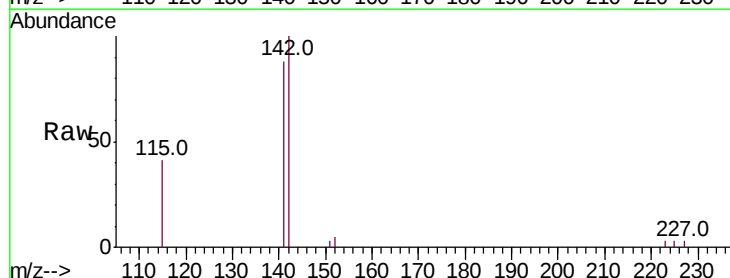
Tgt Ion:142 Resp: 2308

Ion Ratio Lower Upper

142 100

141 87.7 70.4 105.6

115 40.7 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

11.79

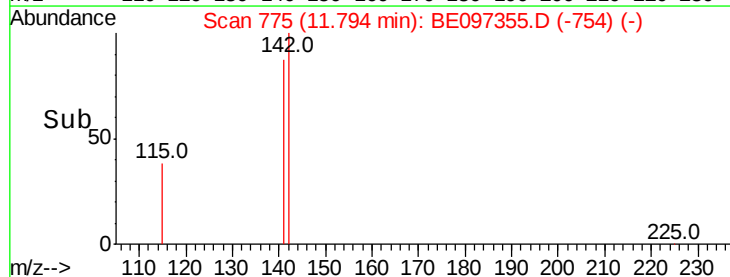
1500

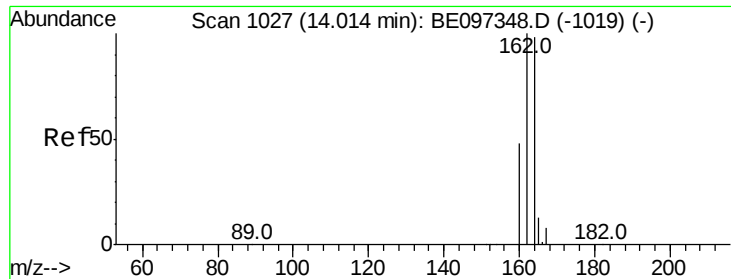
1000

500

0

Time--> 11.70 11.80 11.90

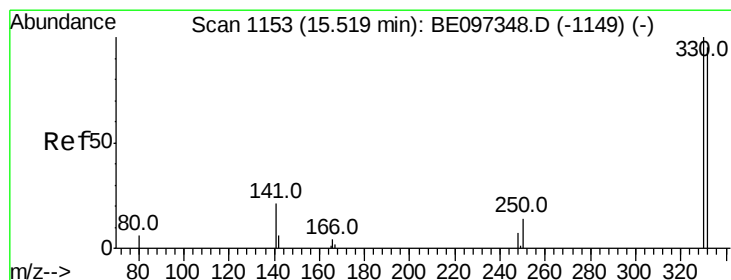
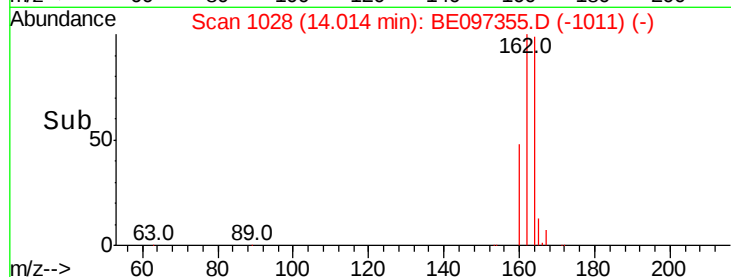
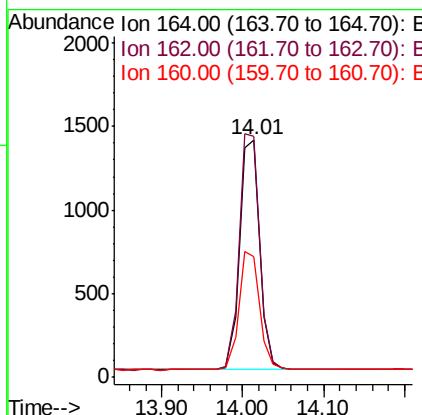
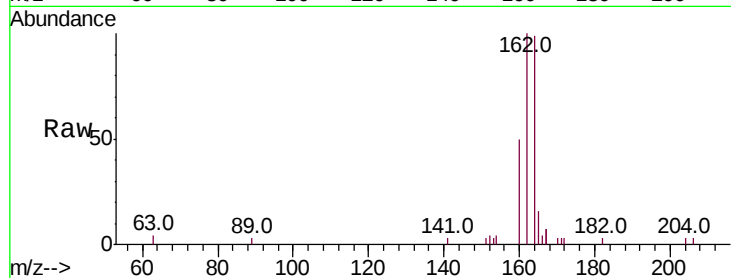




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.01 min Scan# 1028  
 Delta R.T. 0.00 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

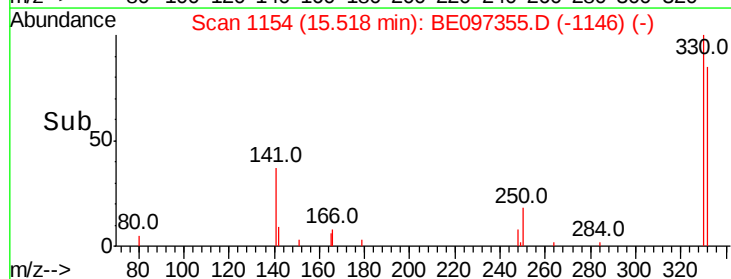
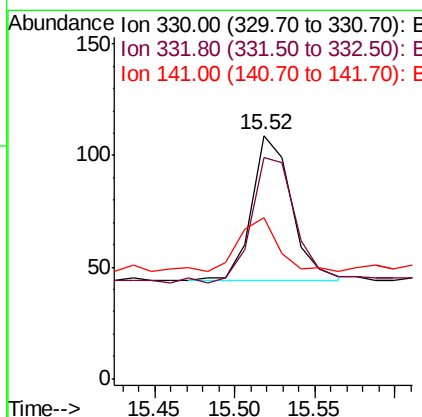
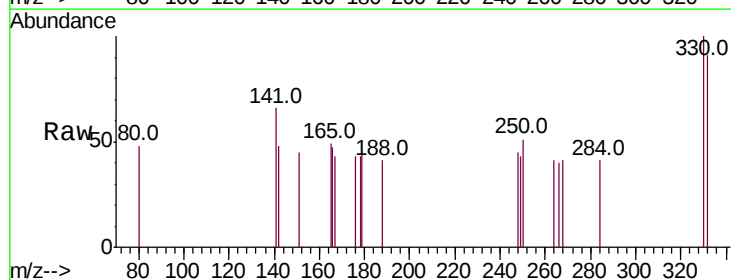
Instrument :  
 BNA\_E  
 ClientSampleId :

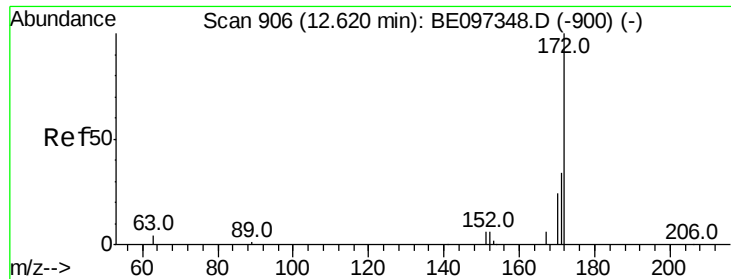
Tot Ion:164 Resp: 2372  
 Ion Ratio Lower Upper  
 164 100  
 162 101.2 83.1 124.7  
 160 50.7 37.1 55.7



#14  
 2,4,6-Tribromophenol  
 Concen: 0.140 ng  
 RT: 15.52 min Scan# 1154  
 Delta R.T. -0.00 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

Tgt Ion:330 Resp: 112  
 Ion Ratio Lower Upper  
 330 100  
 332 98.2 152.7 229.1#  
 141 37.5 33.7 50.5

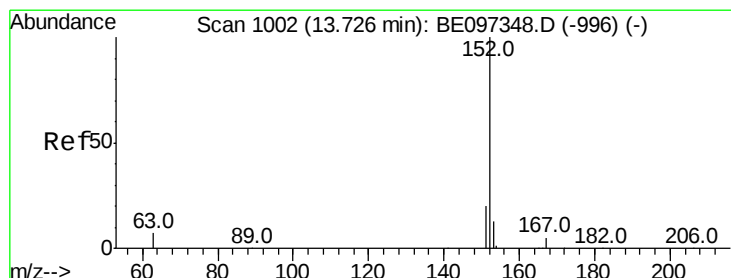
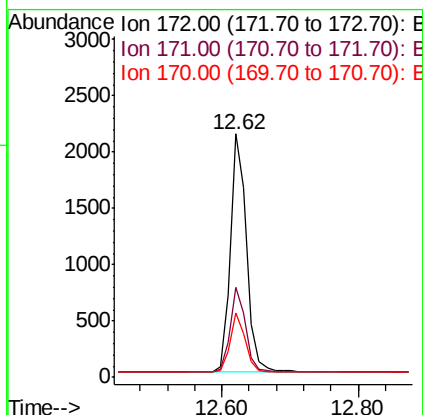
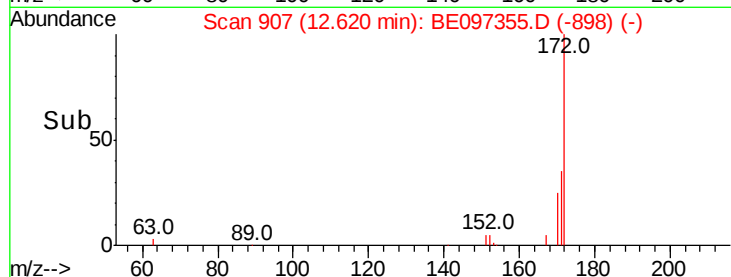
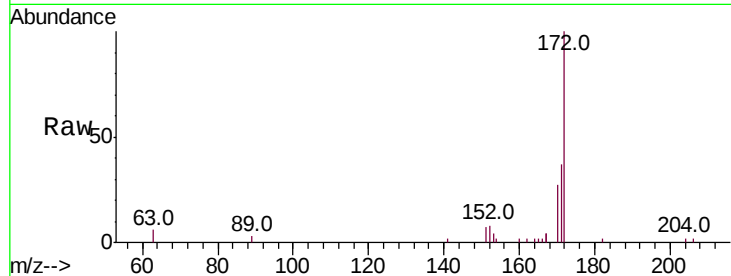




#15  
2-Fluorobiphenyl  
Concen: 0.409 ng  
RT: 12.62 min Scan# 907  
Delta R.T. 0.00 min  
Lab File: BE097355.D  
Acq: 23 Aug 2018 11:29

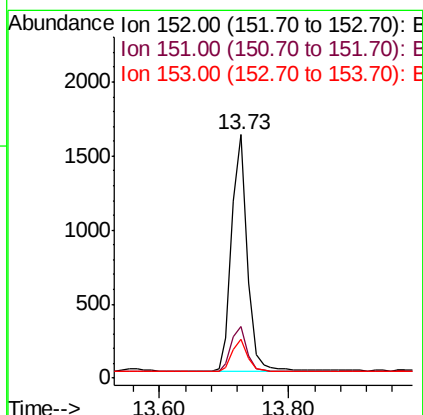
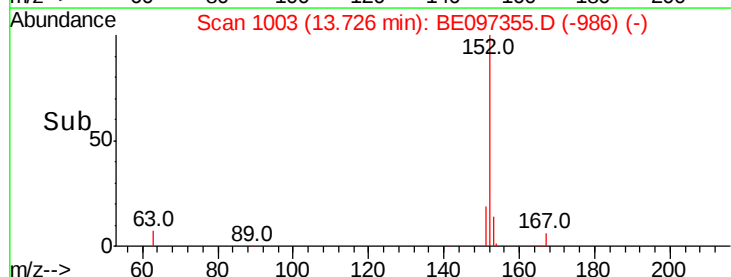
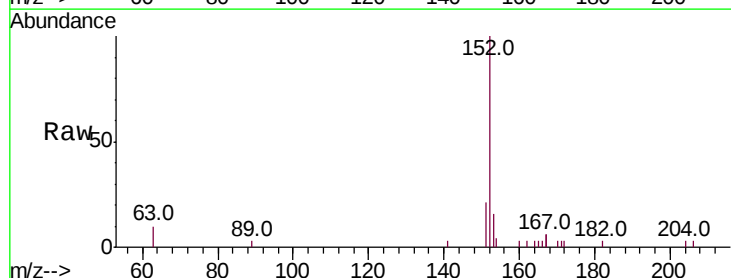
Instrument :  
BNA\_E  
ClientSampleId :

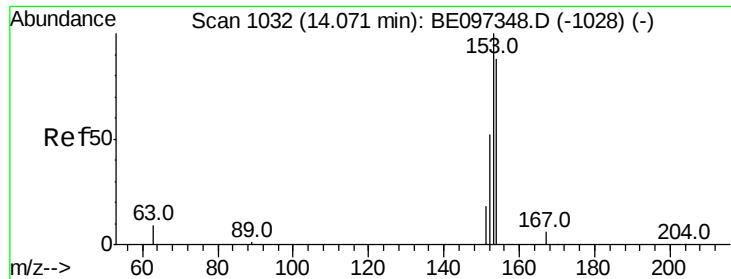
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.9  | 44.9  |
| 170     | 26.5  | 21.8  | 32.8  |



#16  
Acenaphthylene  
Concen: 0.282 ng  
RT: 13.73 min Scan# 1003  
Delta R.T. 0.00 min  
Lab File: BE097355.D  
Acq: 23 Aug 2018 11:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.0  | 15.7  | 23.5  |
| 153     | 13.7  | 10.5  | 15.7  |





#17

Acenaphthene

Concen: 0.295 ng

RT: 14.07 min Scan# 1033

Delta R.T. 0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

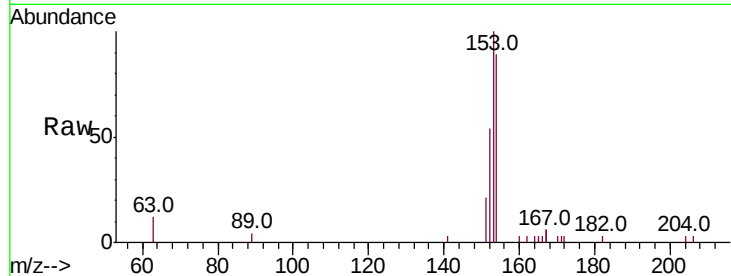
Tot Ion:154 Resp: 1855

Ion Ratio Lower Upper

154 100

153 114.2 89.2 133.8

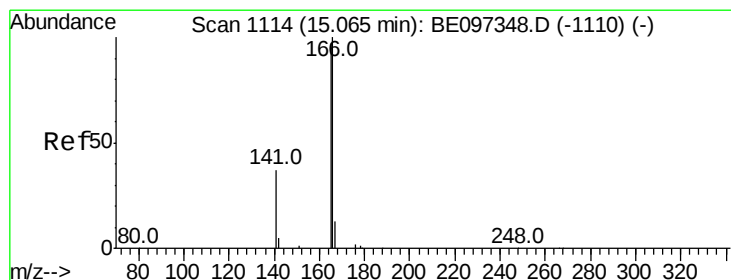
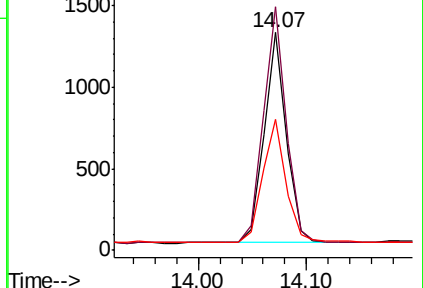
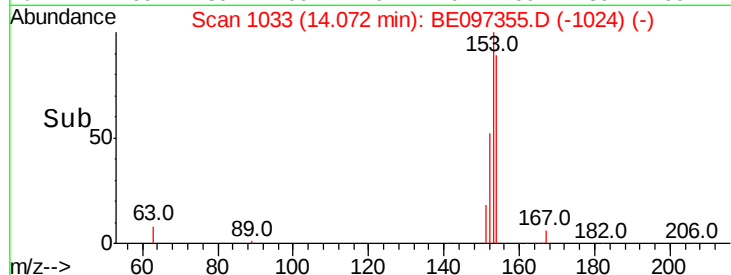
152 60.2 42.0 63.0



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: 0.276 ng

RT: 15.06 min Scan# 1115

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

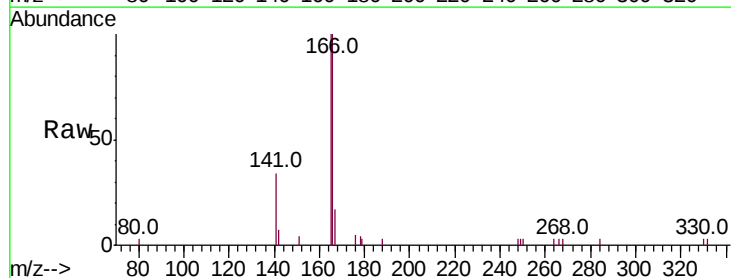
Tgt Ion:166 Resp: 2197

Ion Ratio Lower Upper

166 100

165 97.9 77.8 116.6

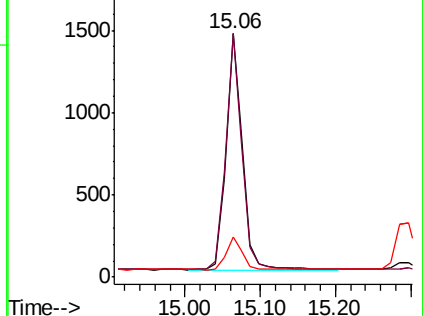
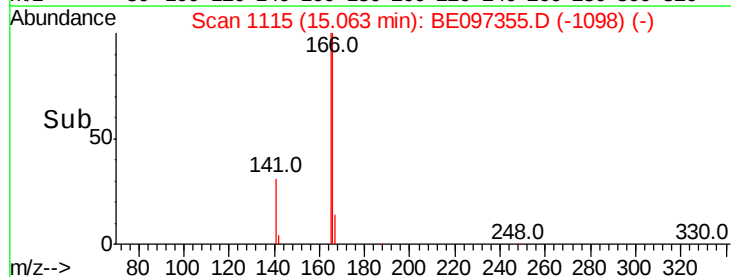
167 13.8 42.4 63.6#

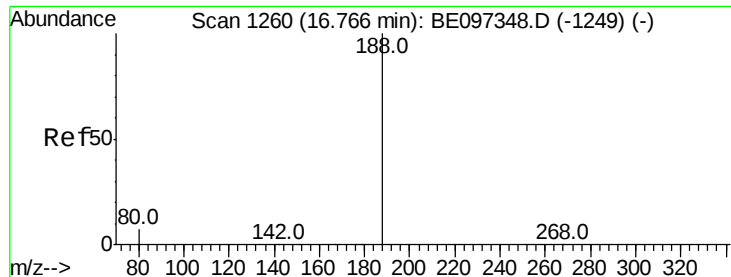


Abundance Ion 166.00 (165.70 to 166.70): E

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# 1261

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

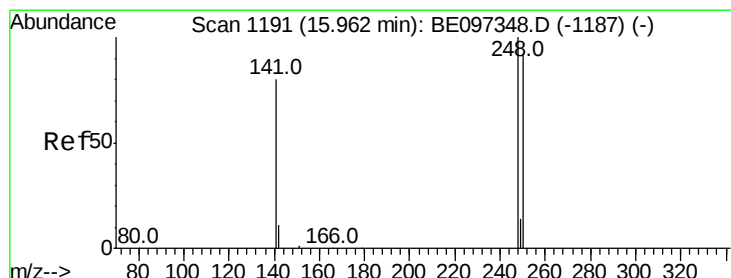
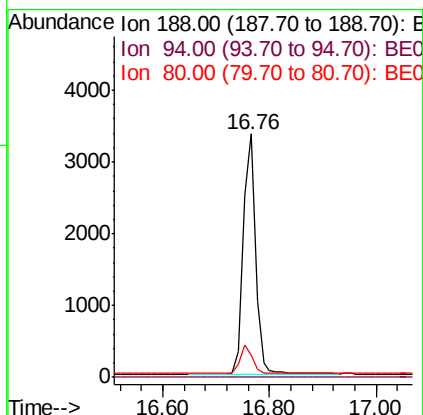
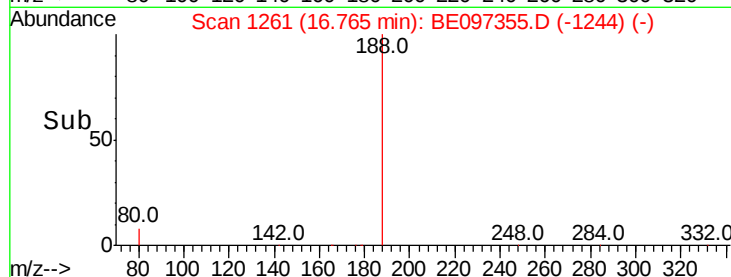
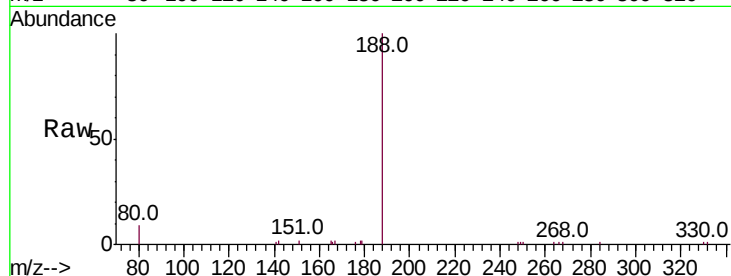
Tot Ion:188 Resp: 5295

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 9.0 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.296 ng

RT: 15.97 min Scan# 1193

Delta R.T. 0.01 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

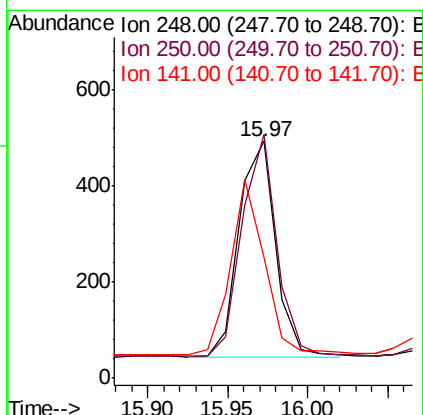
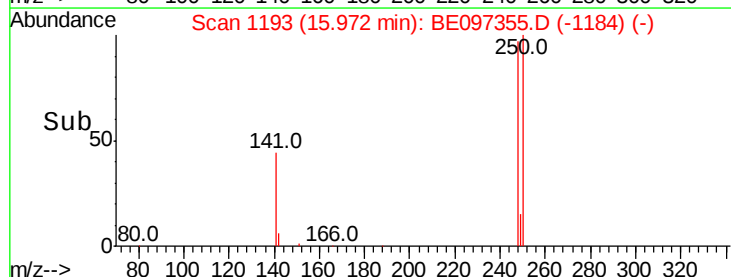
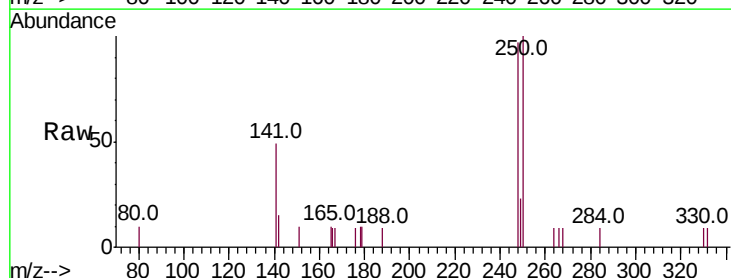
Tgt Ion:248 Resp: 713

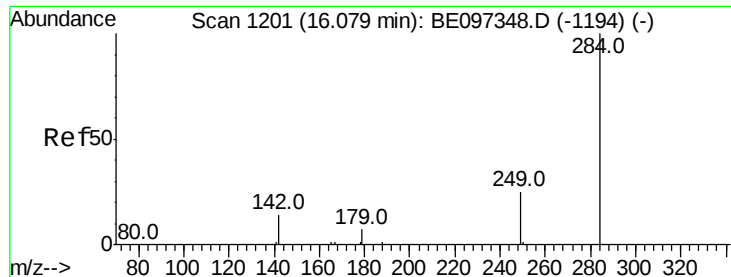
Ion Ratio Lower Upper

248 100

250 102.8 62.7 94.1#

141 50.8 48.2 72.2





#21

Hexachlorobenzene

Concen: 0.303 ng

RT: 16.08 min Scan# 1202

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

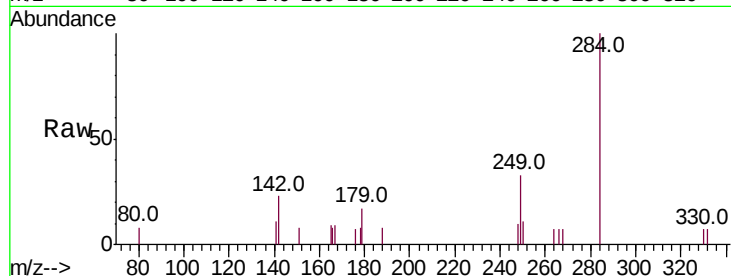
Tot Ion:284 Resp: 806

Ion Ratio Lower Upper

284 100

142 32.3 22.1 33.1

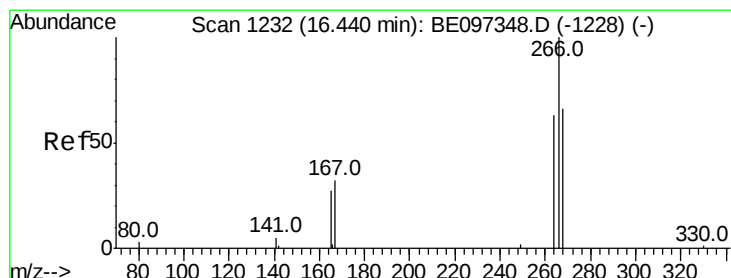
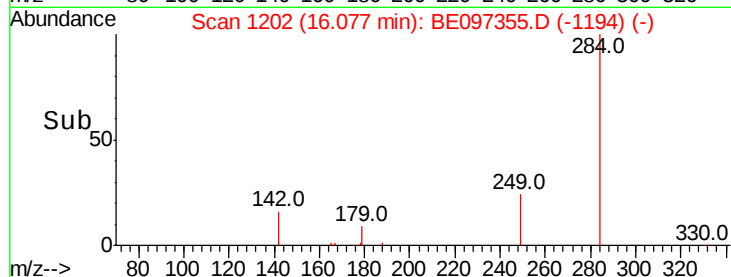
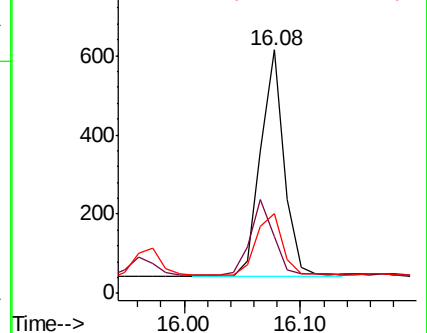
249 30.8 34.8 52.2#



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: 0.497 ng

RT: 16.44 min Scan# 1233

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

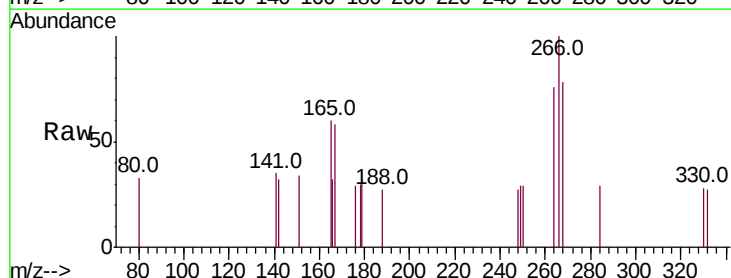
Tgt Ion:266 Resp: 305

Ion Ratio Lower Upper

266 100

264 75.8 72.5 108.7

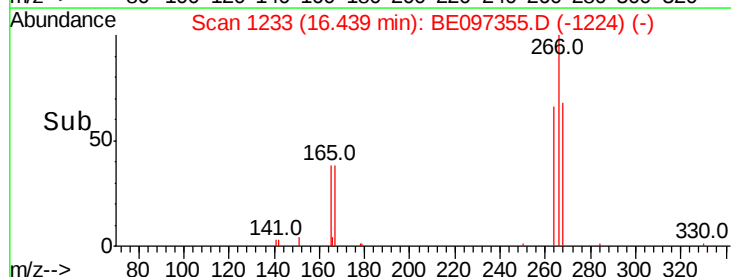
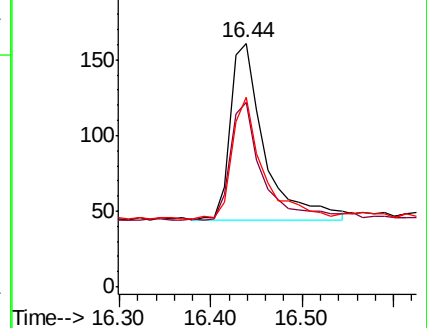
268 77.6 73.8 110.6

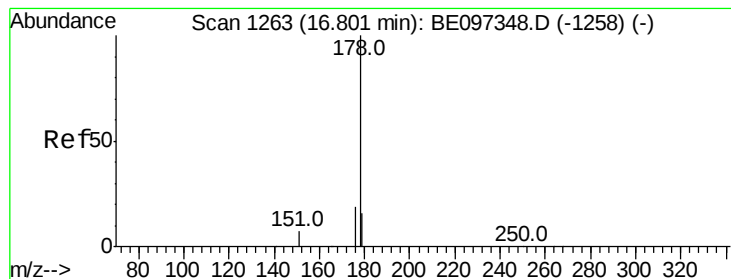


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.302 ng

RT: 16.80 min Scan# 1264

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

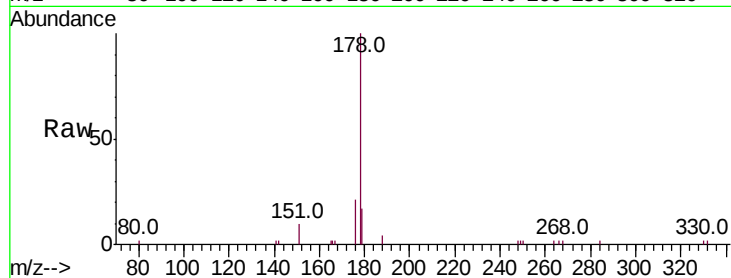
Tot Ion:178 Resp: 3805

Ion Ratio Lower Upper

178 100

176 19.6 15.1 22.7

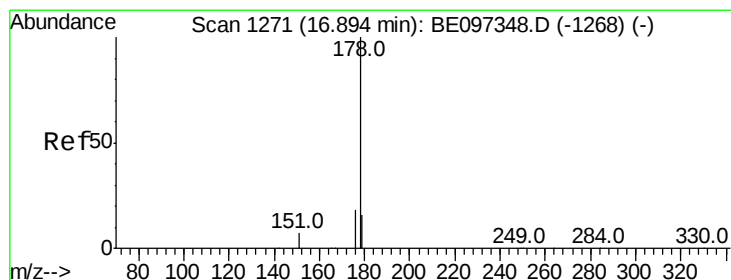
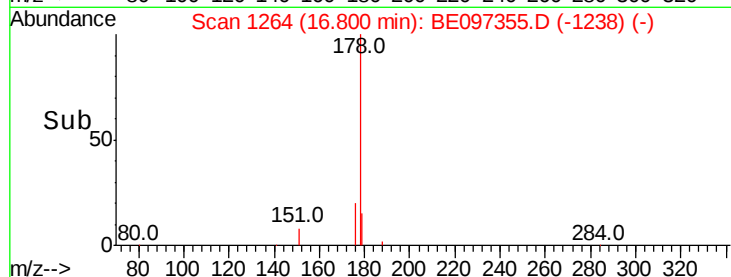
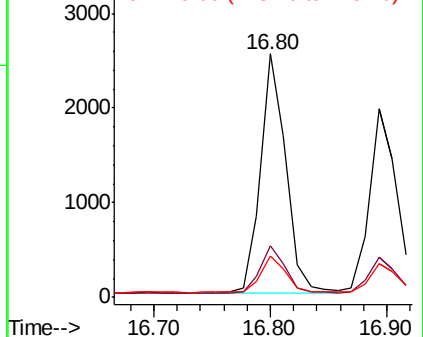
179 15.4 11.8 17.6



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: 0.295 ng

RT: 16.89 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

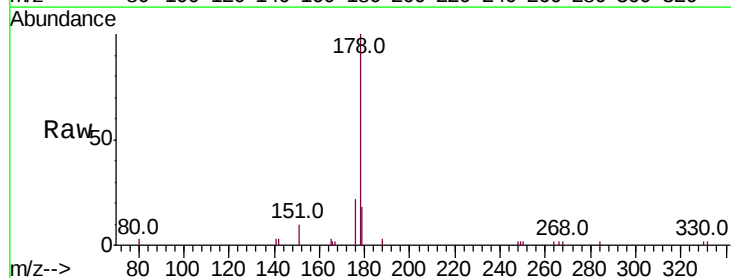
Tgt Ion:178 Resp: 3160

Ion Ratio Lower Upper

178 100

176 19.6 12.8 19.2#

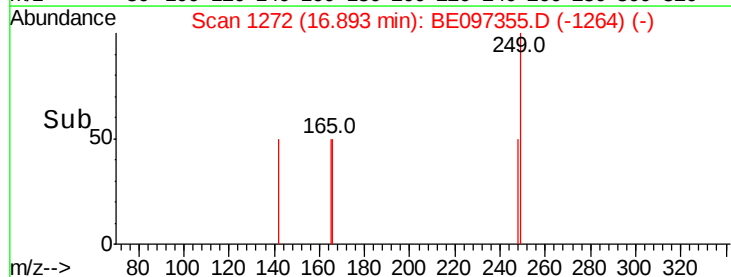
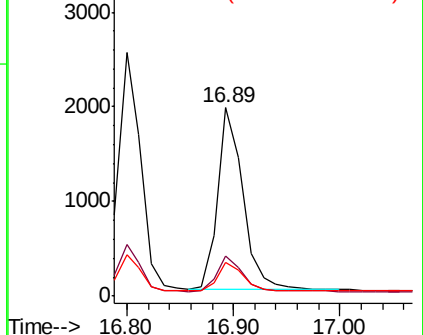
179 15.6 13.0 19.6

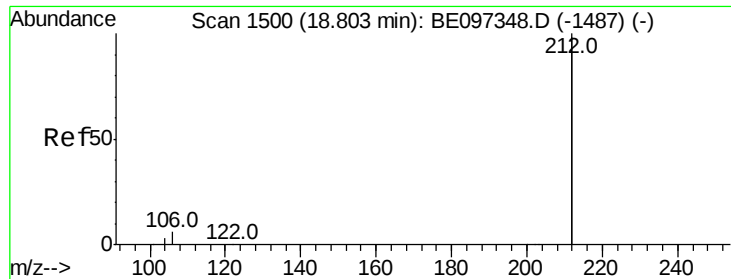


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.244 ng

RT: 18.80 min Scan# 1502

Delta R.T. 0.00 min

Lab File: BE097355.D

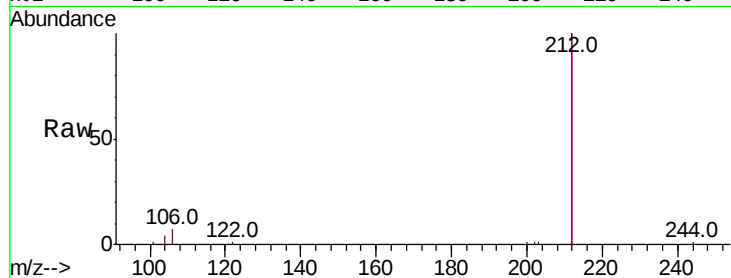
Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

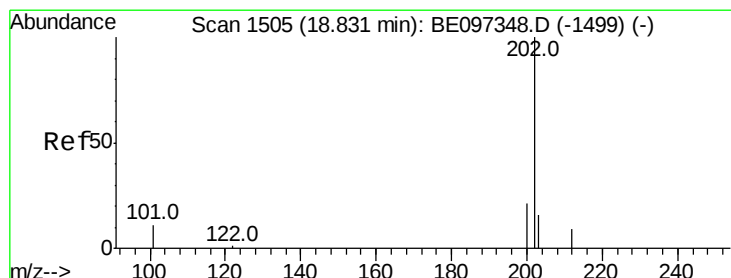
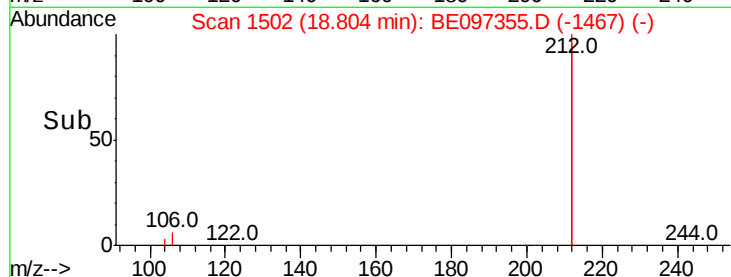
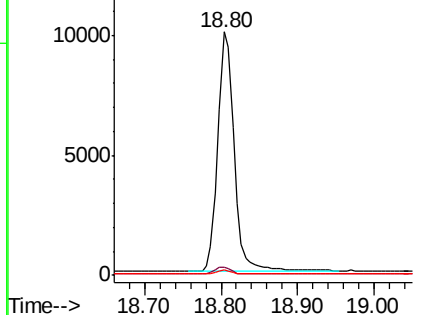
|             |       |         |
|-------------|-------|---------|
| Tot Ion:212 | Resp: | 14814   |
| Ion Ratio   | Lower | Upper   |
| 212         | 100   |         |
| 106         | 3.1   | 2.8 4.2 |
| 104         | 1.7   | 1.6 2.4 |



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: 0.257 ng

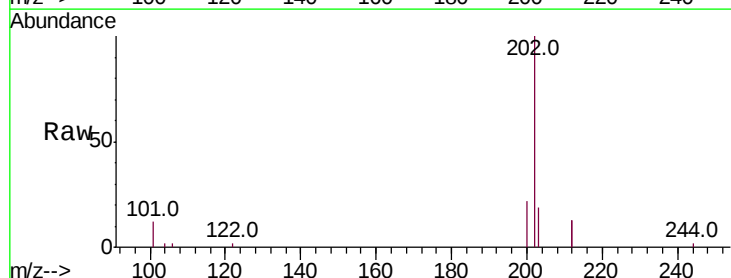
RT: 18.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

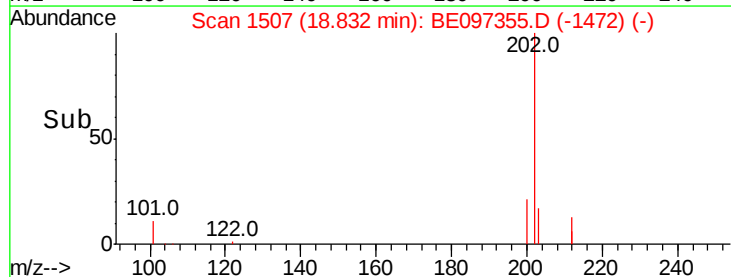
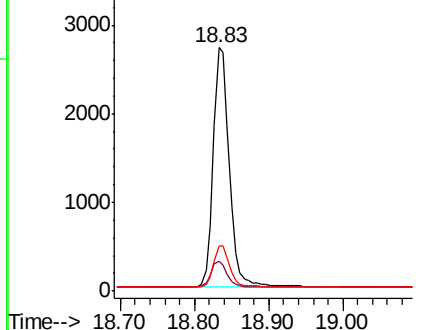
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 4062      |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 101         | 11.2  | 9.8 14.8  |
| 203         | 17.0  | 13.7 20.5 |

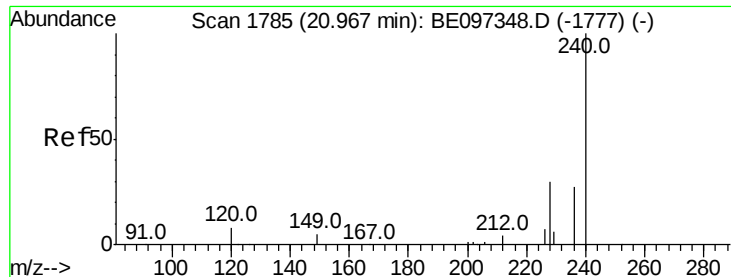


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.97 min Scan# 1787

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

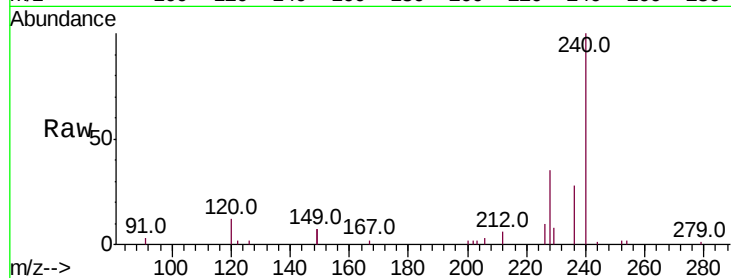
Tot Ion:240 Resp: 5047

Ion Ratio Lower Upper

240 100

120 11.7 5.5 8.3#

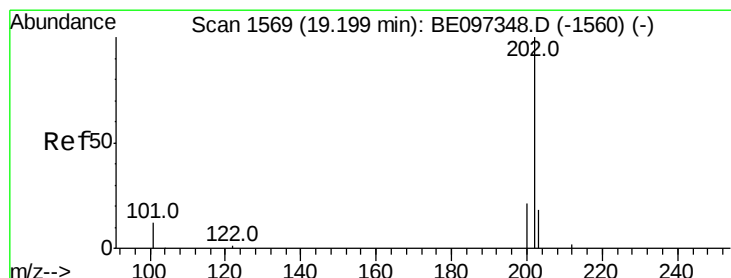
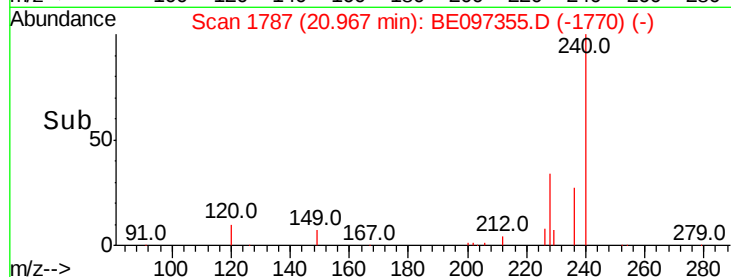
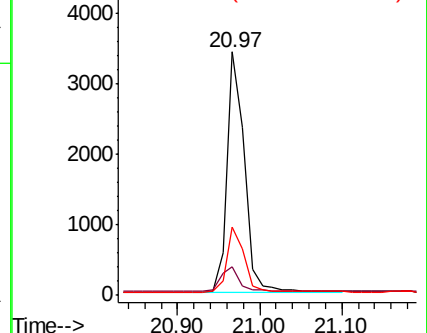
236 28.2 20.7 31.1



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



#28

Pyrene

Concen: 0.338 ng

RT: 19.20 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

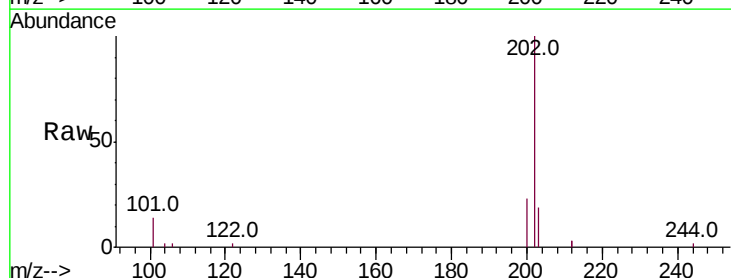
Tgt Ion:202 Resp: 4055

Ion Ratio Lower Upper

202 100

200 21.1 16.6 25.0

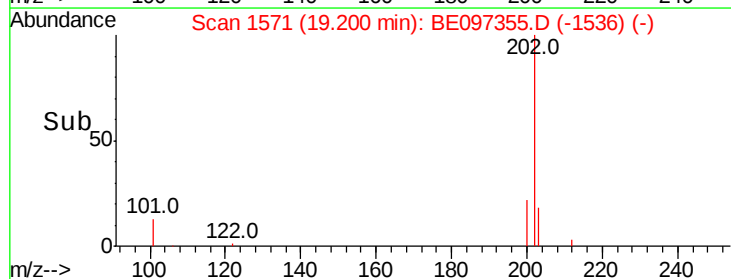
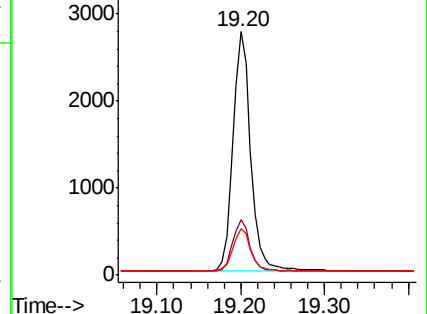
203 17.6 13.8 20.8

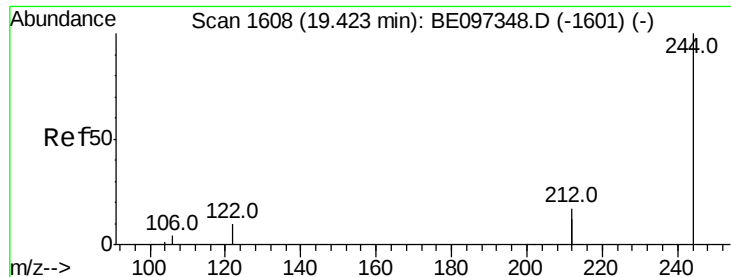


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

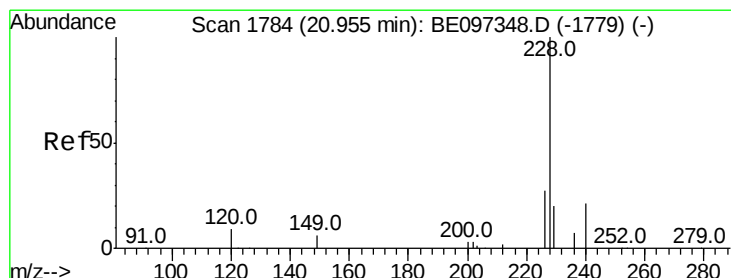
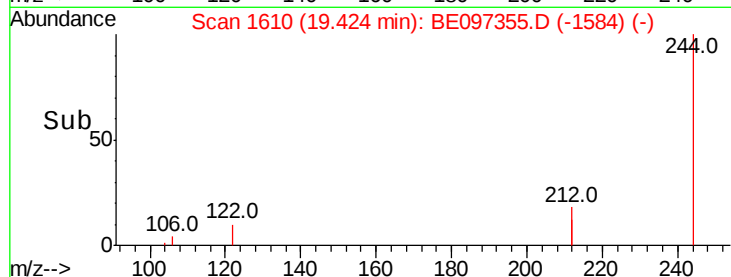
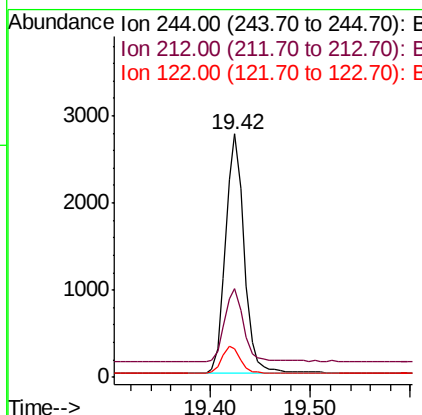
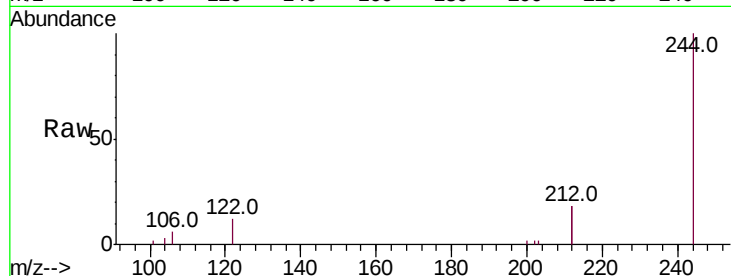




#29  
 Terphenyl-d14  
 Concen: 0.384 ng  
 RT: 19.42 min Scan# 1610  
 Delta R.T. 0.00 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

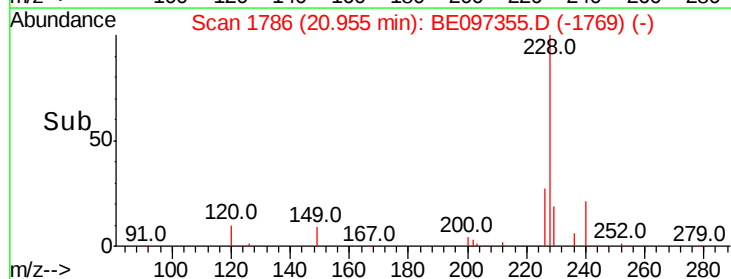
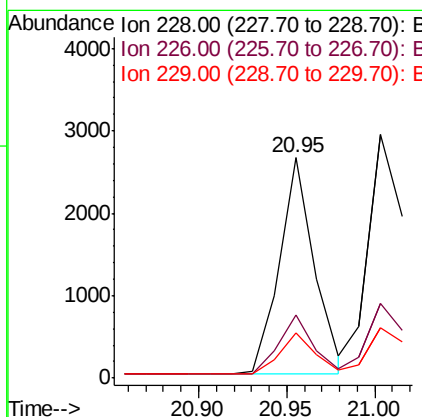
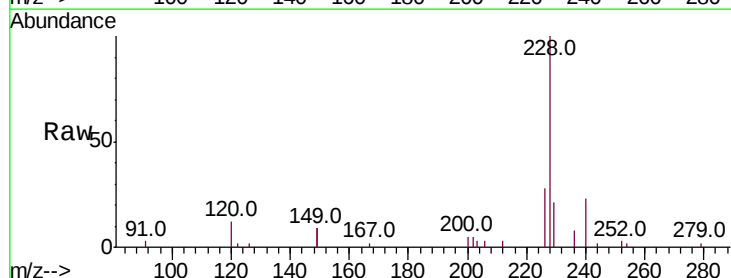
Instrument :  
 BNA\_E  
 ClientSampleId :

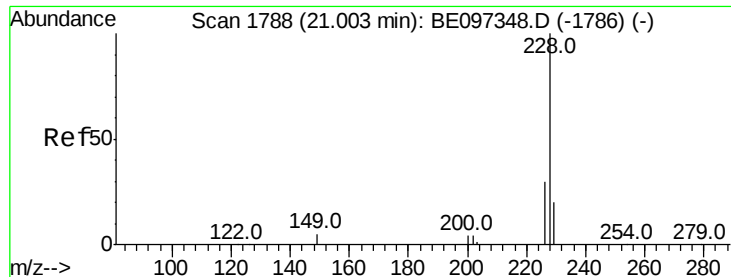
Tot Ion:244 Resp: 3572  
 Ion Ratio Lower Upper  
 244 100  
 212 36.2 25.4 38.0  
 122 11.6 8.1 12.1



#30  
 Benzo(a)anthracene  
 Concen: 0.284 ng  
 RT: 20.95 min Scan# 1786  
 Delta R.T. -0.00 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

Tgt Ion:228 Resp: 3629  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 24.0 36.0  
 229 20.8 16.0 24.0





#31

Chrysene

Concen: 0.304 ng

RT: 21.00 min Scan# 1790

Delta R.T. -0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

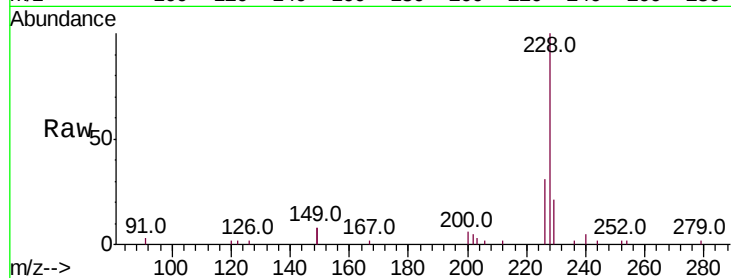
Tot Ion:228 Resp: 4178

Ion Ratio Lower Upper

228 100

226 30.6 24.0 36.0

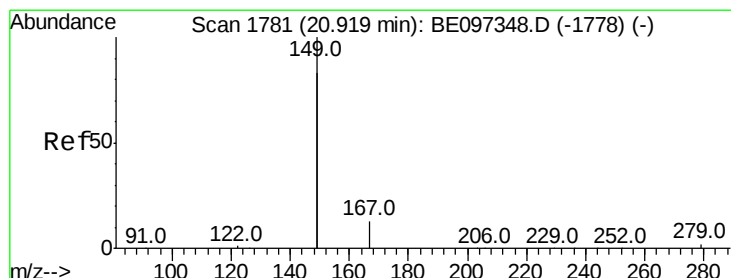
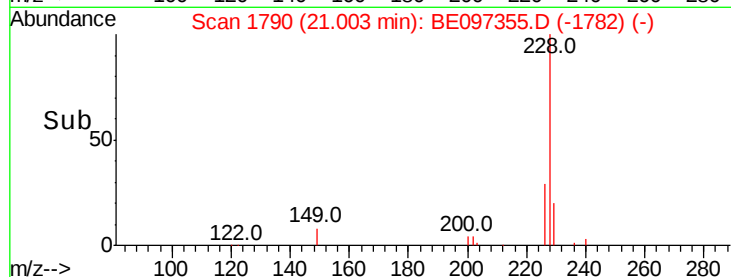
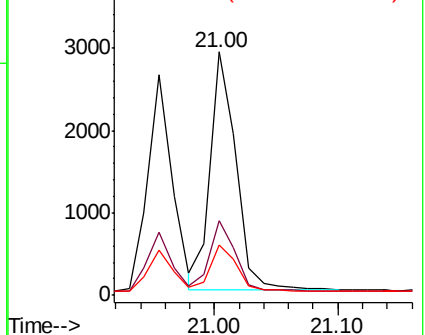
229 20.8 16.0 24.0



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: 0.303 ng

RT: 20.92 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

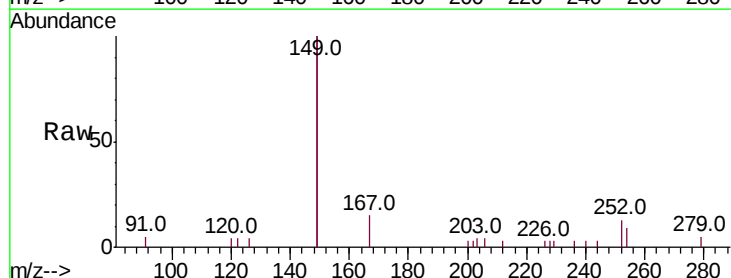
Tgt Ion:149 Resp: 3952

Ion Ratio Lower Upper

149 100

167 6.5 5.4 8.0

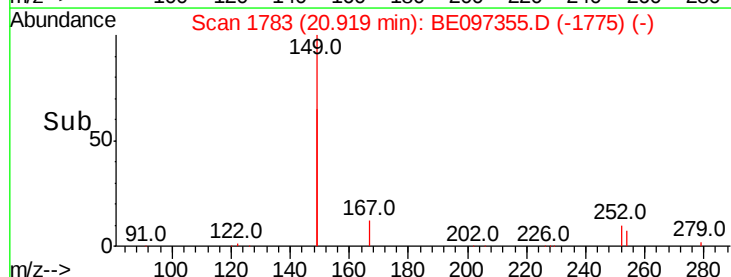
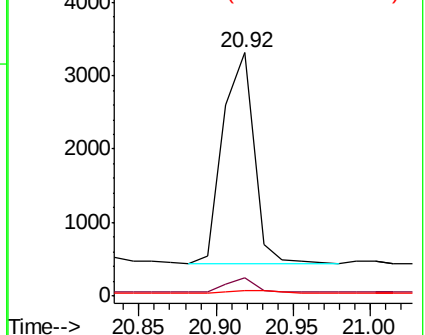
279 1.2 0.7 1.1#

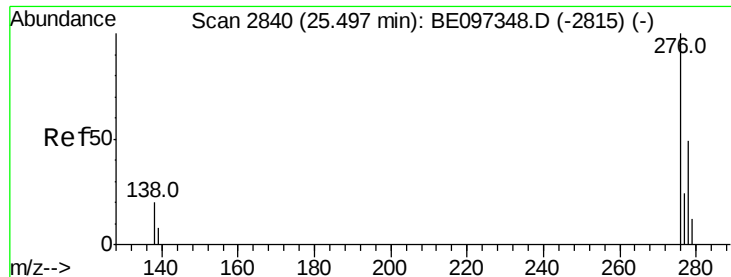


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

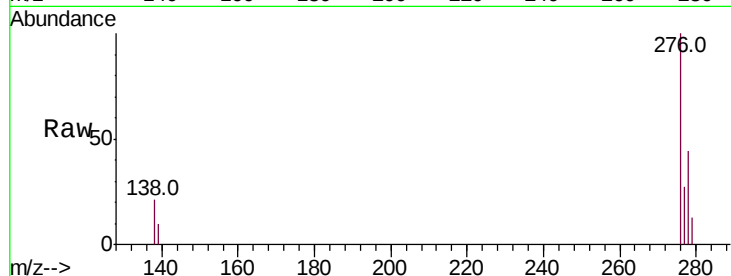




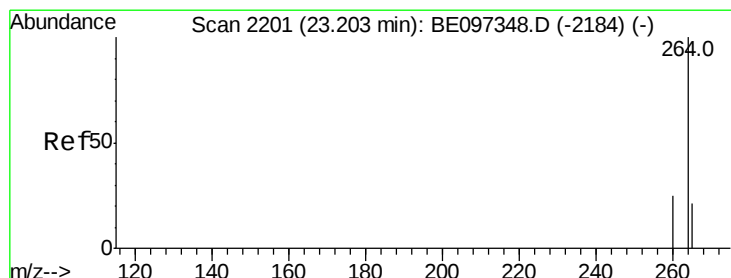
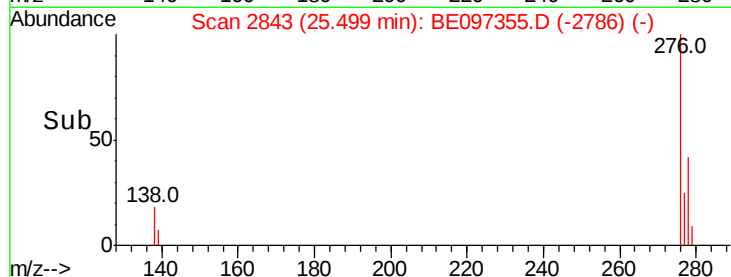
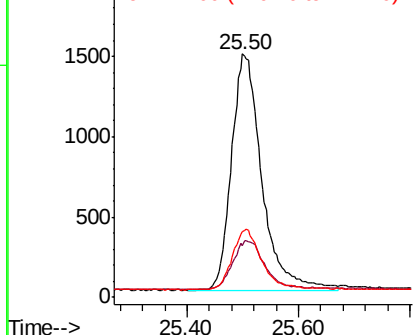
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.305 ng  
 RT: 25.50 min Scan# 2843  
 Delta R.T. 0.00 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 5561  
 Ion Ratio Lower Upper  
 276 100  
 138 21.2 22.5 33.7#  
 277 24.8 19.9 29.9

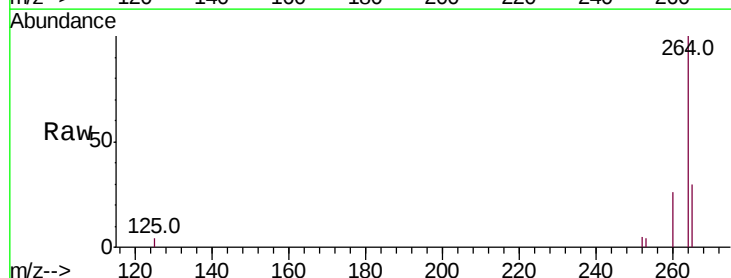


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

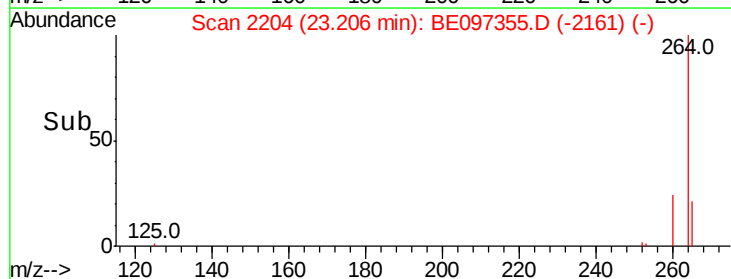
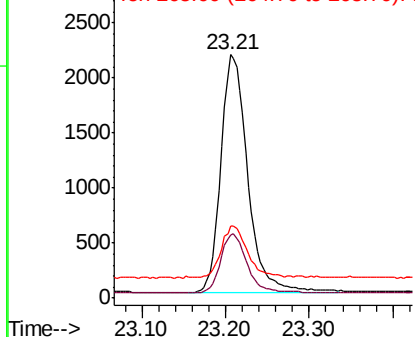


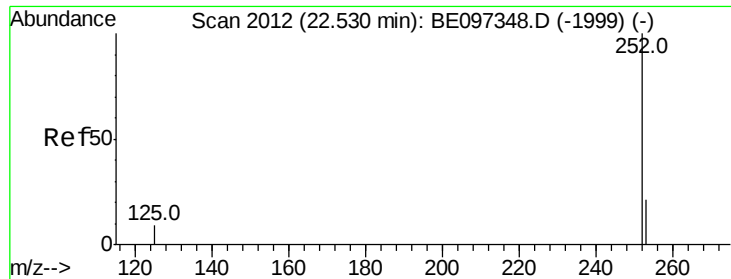
#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.21 min Scan# 2204  
 Delta R.T. 0.00 min  
 Lab File: BE097355.D  
 Acq: 23 Aug 2018 11:29

Tgt Ion:264 Resp: 4860  
 Ion Ratio Lower Upper  
 264 100  
 260 25.9 20.5 30.7  
 265 29.7 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: 0.294 ng

RT: 22.53 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

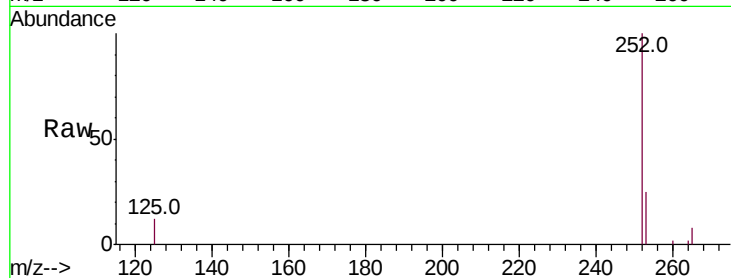
Tot Ion:252 Resp: 3771

Ion Ratio Lower Upper

252 100

253 25.1 20.0 30.0

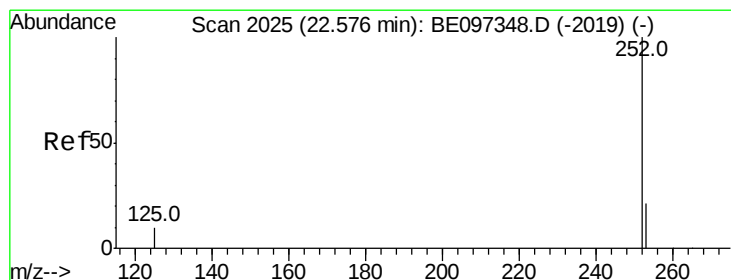
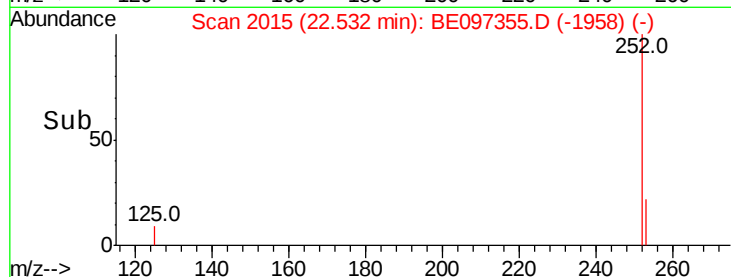
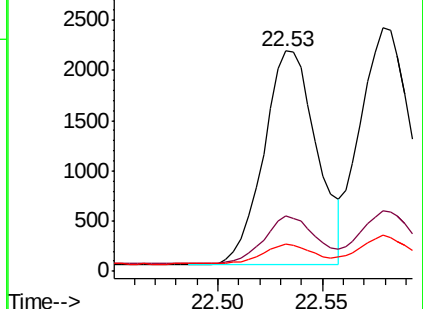
125 12.2 16.0 24.0#



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



#36

Benzo(k)fluoranthene

Concen: 0.303 ng

RT: 22.58 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

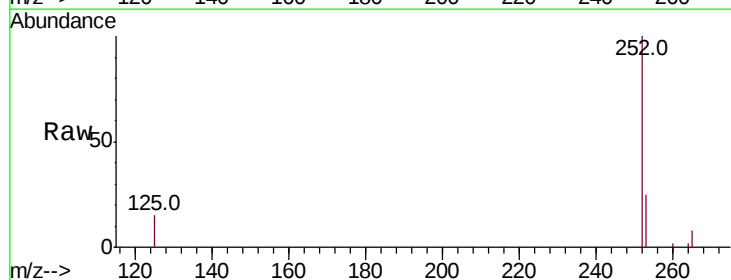
Tgt Ion:252 Resp: 4294

Ion Ratio Lower Upper

252 100

253 25.0 16.0 24.0#

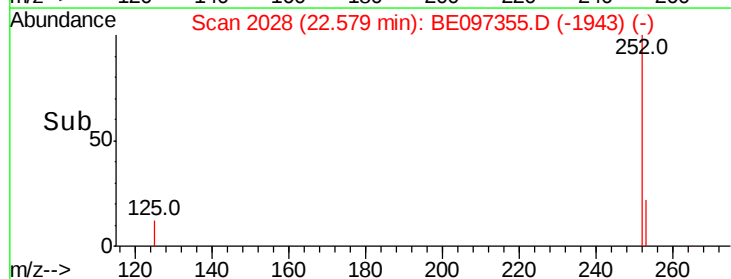
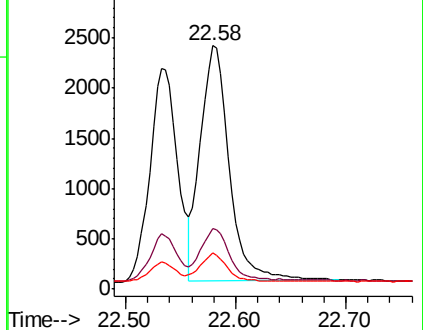
125 14.7 8.0 12.0#

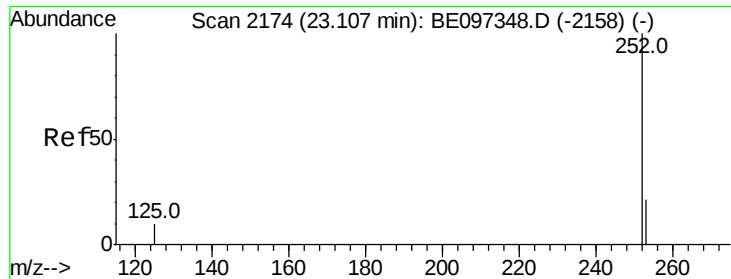


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.277 ng

RT: 23.11 min Scan# 2177

Delta R.T. 0.00 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :

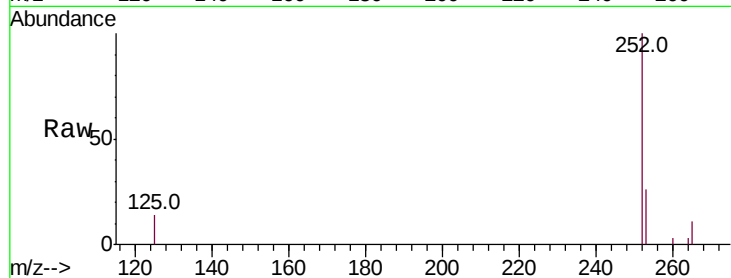
Tot Ion:252 Resp: 3478

Ion Ratio Lower Upper

252 100

253 25.6 16.0 24.0#

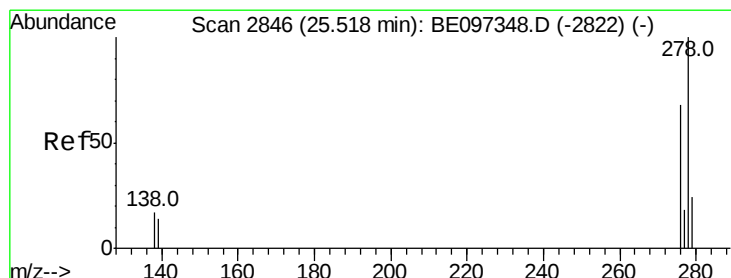
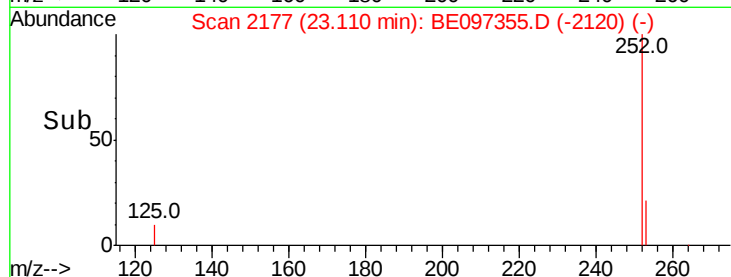
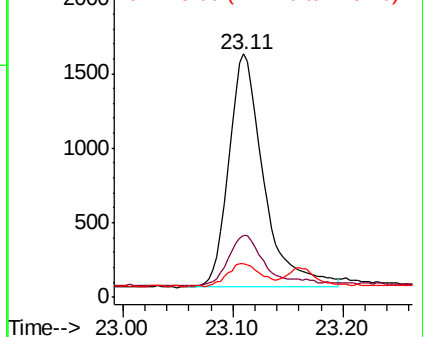
125 14.1 12.0 18.0



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: 0.315 ng

RT: 25.52 min Scan# 2850

Delta R.T. 0.01 min

Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

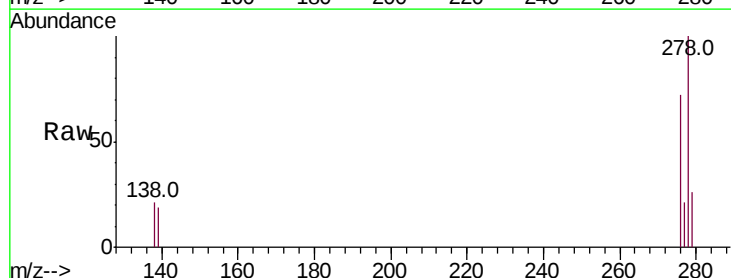
Tgt Ion:278 Resp: 4762

Ion Ratio Lower Upper

278 100

139 19.2 16.0 24.0

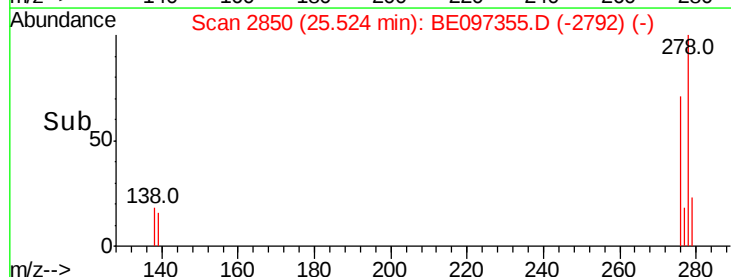
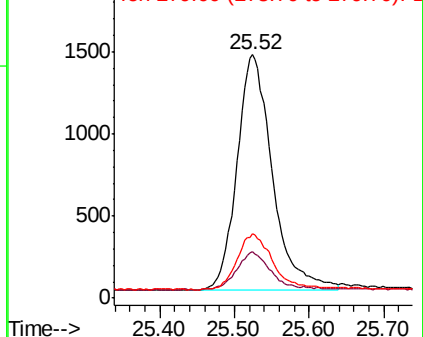
279 26.4 20.0 30.0

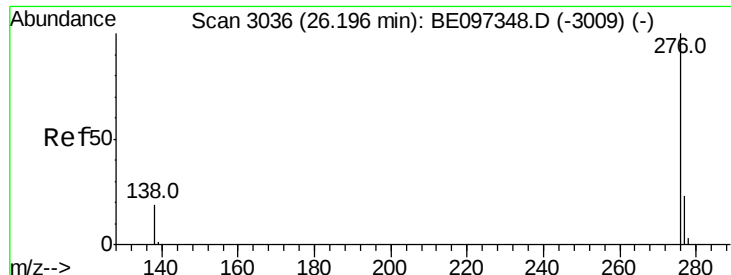


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.314 ng

RT: 26.20 min Scan# 3039

Delta R.T. 0.00 min

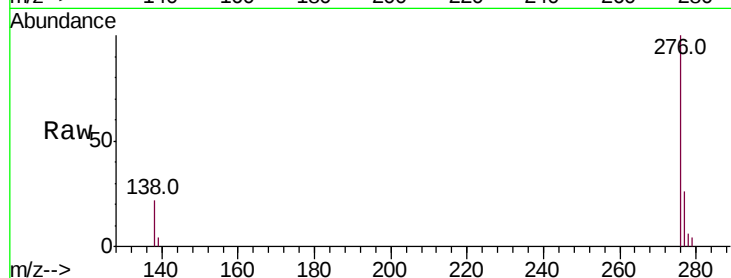
Lab File: BE097355.D

Acq: 23 Aug 2018 11:29

Instrument :

BNA\_E

ClientSampleId :



Tot Ion:276 Resp: 4924

Ion Ratio Lower Upper

276 100

277 25.7 16.0 24.0#

138 21.9 20.0 30.0

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

