

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092418\  
 Data File : BE097646.D  
 Acq On : 24 Sep 2018 15:44  
 Operator : SJ/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 24 16:29:34 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE092418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 24 16:28:05 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 743      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.13 | 136  | 3765     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2576     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.75 | 188  | 8008     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.97 | 240  | 8539     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.20 | 264  | 7901     | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.05  | 112  | 690      | 0.31 | ng    | 0.00     |
| 5) Phenol-d6                | 6.62  | 99   | 824      | 0.29 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.54  | 82   | 820      | 0.28 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.72 | 152  | 2091     | 0.40 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.53 | 330  | 347      | 0.32 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.63 | 172  | 3152     | 0.35 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.80 | 212  | 31298    | 0.31 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.42 | 244  | 6153     | 0.39 | ng    | 0.00     |

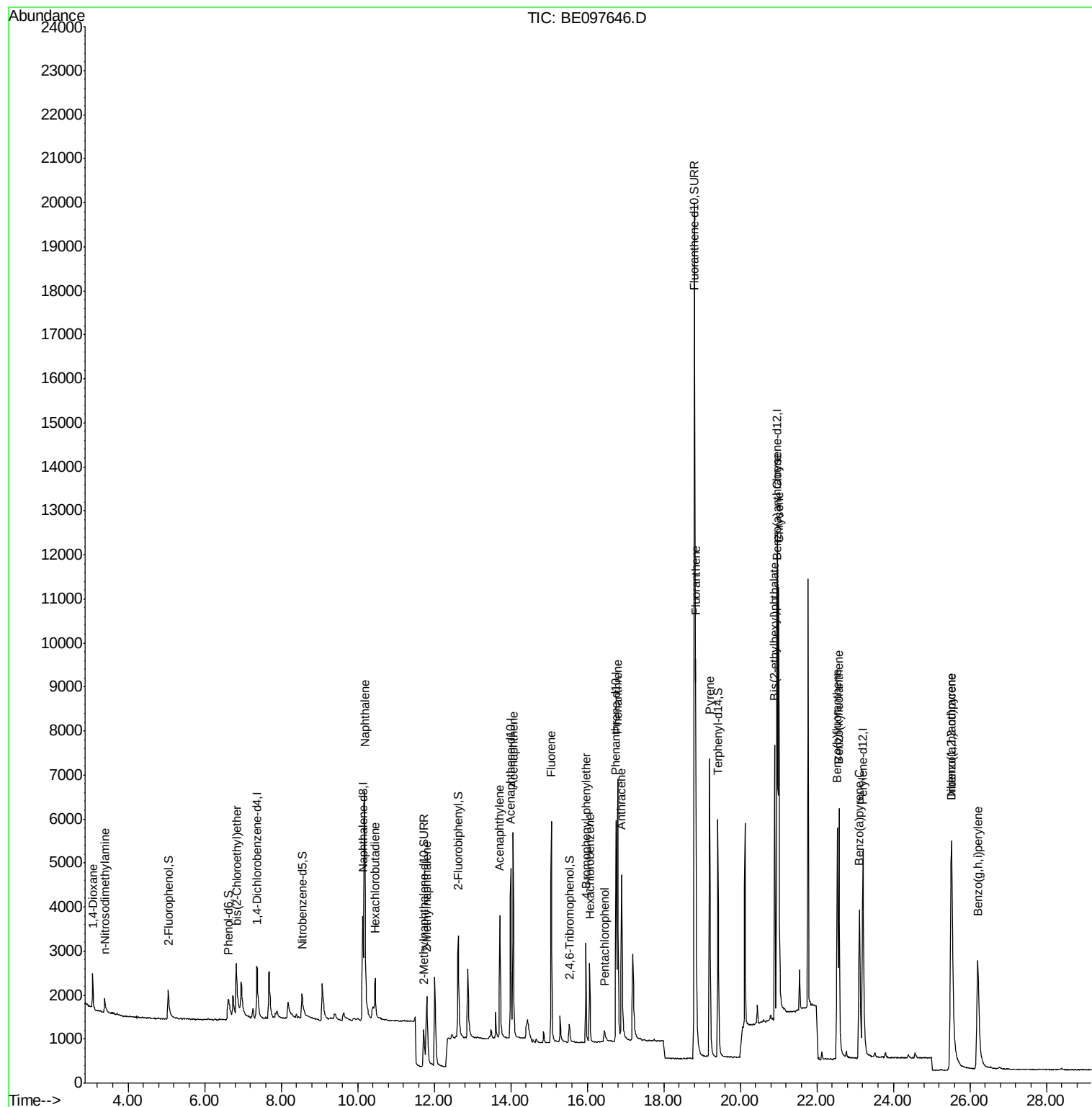
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.07  | 88   | 475      | 0.361 | ng    | # 86   |
| 3) n-Nitrosodimethylamine      | 3.38  | 42   | 294      | 0.253 | ng    | # 82   |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 927      | 0.351 | ng    | # 67   |
| 9) Naphthalene                 | 10.19 | 128  | 12748    | 0.376 | ng    | 99     |
| 10) Hexachlorobutadiene        | 10.46 | 225  | 572      | 0.366 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 11.80 | 142  | 2022     | 0.382 | ng    | 97     |
| 16) Acenaphthylene             | 13.72 | 152  | 3710     | 0.364 | ng    | 99     |
| 17) Acenaphthene               | 14.06 | 154  | 2506     | 0.367 | ng    | 96     |
| 18) Fluorene                   | 15.06 | 166  | 3487     | 0.392 | ng    | # 79   |
| 20) 4-Bromophenyl-phenylether  | 15.96 | 248  | 1315     | 0.364 | ng    | 86     |
| 21) Hexachlorobenzene          | 16.07 | 284  | 1525     | 0.384 | ng    | # 85   |
| 22) Pentachlorophenol          | 16.45 | 266  | 272      | 0.196 | ng    | 82     |
| 23) Phenanthrene               | 16.80 | 178  | 7031     | 0.370 | ng    | 99     |
| 24) Anthracene                 | 16.89 | 178  | 5605     | 0.334 | ng    | 97     |
| 26) Fluoranthene               | 18.83 | 202  | 8150     | 0.309 | ng    | 99     |
| 28) Pyrene                     | 19.20 | 202  | 8308     | 0.427 | ng    | 99     |
| 30) Benzo(a)anthracene         | 20.95 | 228  | 7010     | 0.326 | ng    | 97     |
| 31) Chrysene                   | 21.00 | 228  | 9177     | 0.398 | ng    | 100    |
| 32) Bis(2-ethylhexyl)phthalate | 20.89 | 149  | 8078     | 0.189 | ng    | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.51 | 276  | 9365     | 0.337 | ng    | # 92   |
| 35) Benzo(b)fluoranthene       | 22.53 | 252  | 7497     | 0.370 | ng    | # 89   |
| 36) Benzo(k)fluoranthene       | 22.58 | 252  | 8903     | 0.385 | ng    | 96     |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 7201     | 0.346 | ng    | # 92   |
| 38) Dibenzo(a,h)anthracene     | 25.53 | 278  | 7476     | 0.352 | ng    | # 95   |
| 39) Benzo(g,h,i)perylene       | 26.20 | 276  | 7679     | 0.372 | ng    | # 90   |

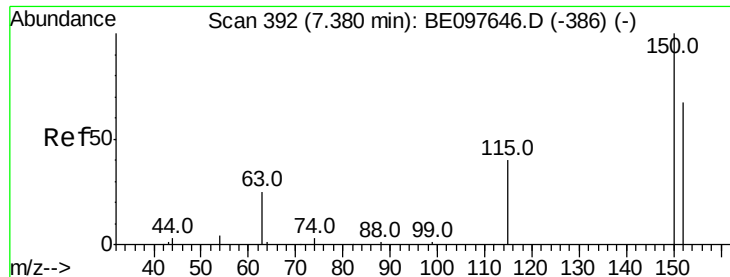
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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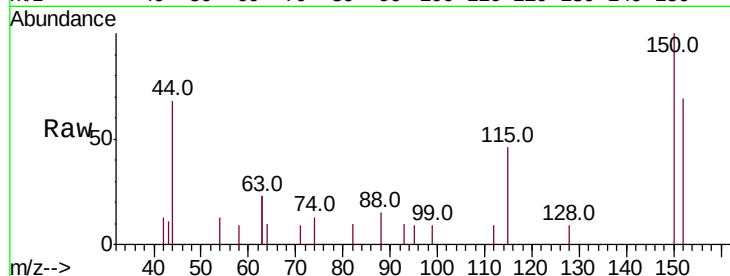


#1

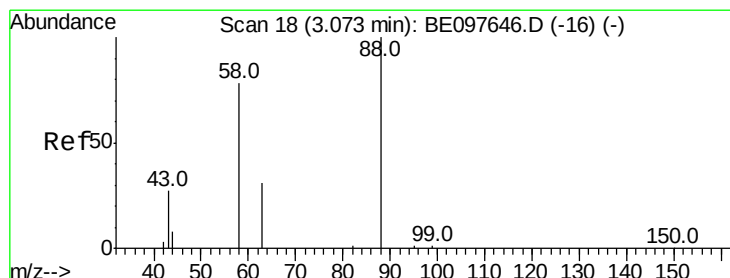
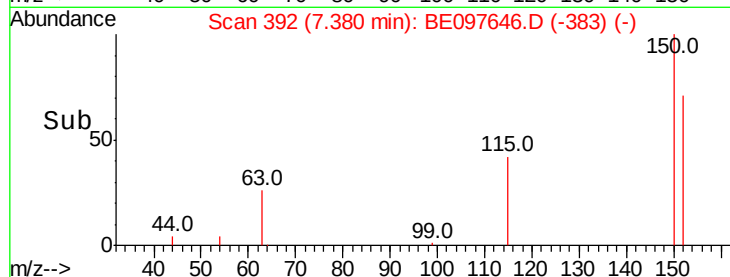
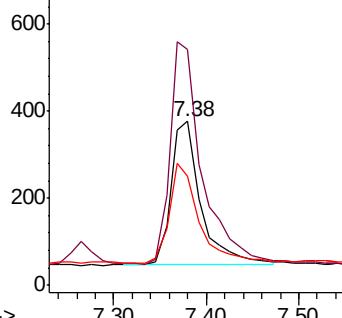
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.38 min Scan# 392  
Delta R.T. 0.00 min  
Lab File: BE097646.D  
Acq: 24 Sep 2018 15:44

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 743  
Ion Ratio Lower Upper  
152 100  
150 144.1 117.2 175.8  
115 66.5 57.0 85.6



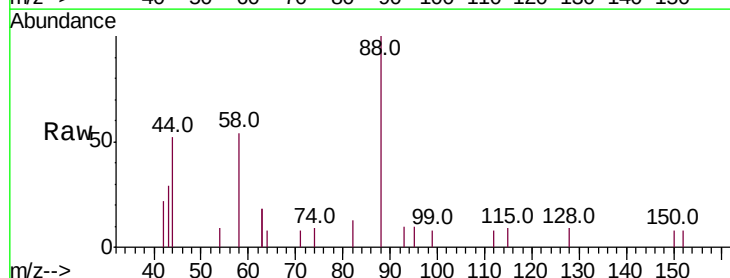
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



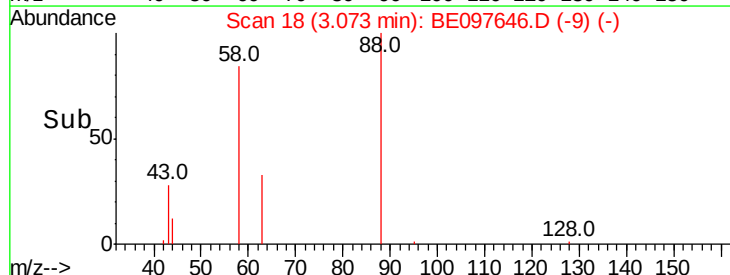
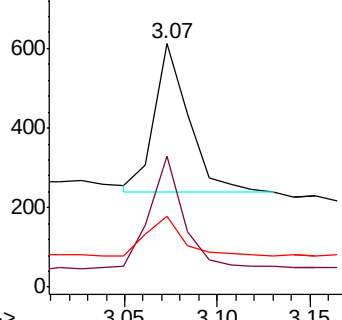
#2

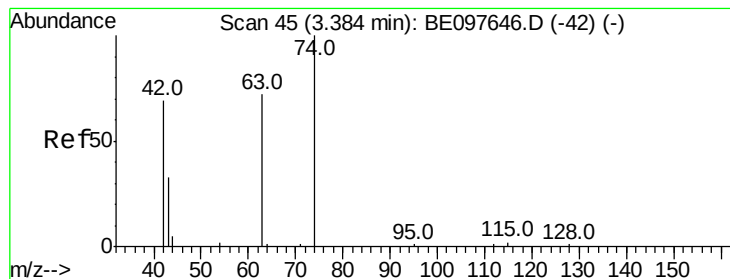
1,4-Dioxane  
Concen: 0.361 ng  
RT: 3.07 min Scan# 18  
Delta R.T. 0.00 min  
Lab File: BE097646.D  
Acq: 24 Sep 2018 15:44

Tgt Ion: 88 Resp: 475  
Ion Ratio Lower Upper  
88 100  
58 76.6 63.2 94.8  
43 29.7 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: 0.253 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

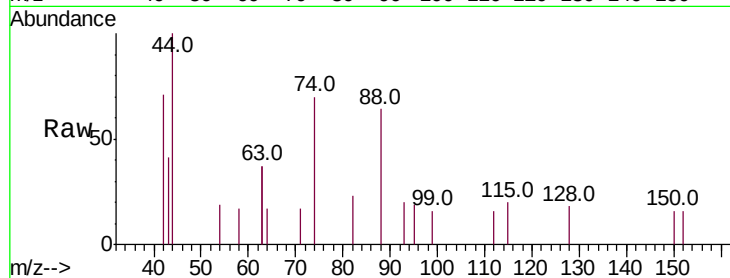
Tot Ion: 42 Resp: 294

Ion Ratio Lower Upper

42 100

74 138.1 96.0 144.0

44 0.0 12.0 18.0#

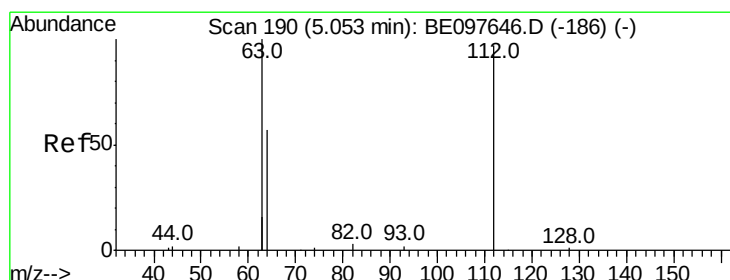
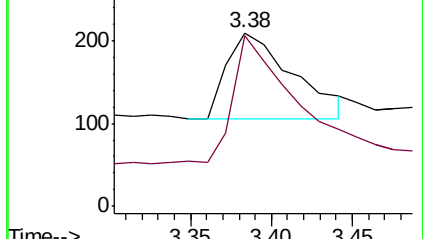
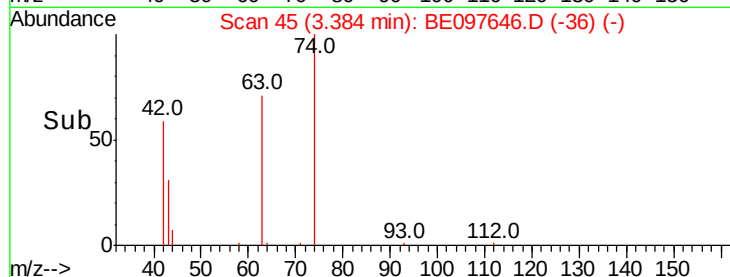


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

Time-->



#4

2-Fluorophenol

Concen: 0.310 ng

RT: 5.05 min Scan# 190

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

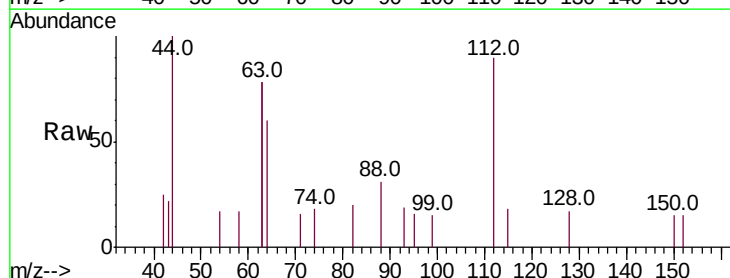
Tgt Ion: 112 Resp: 690

Ion Ratio Lower Upper

112 100

64 65.4 60.1 90.1

63 138.8 116.8 175.2

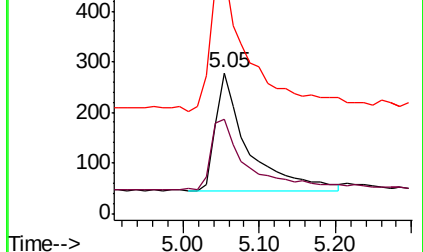
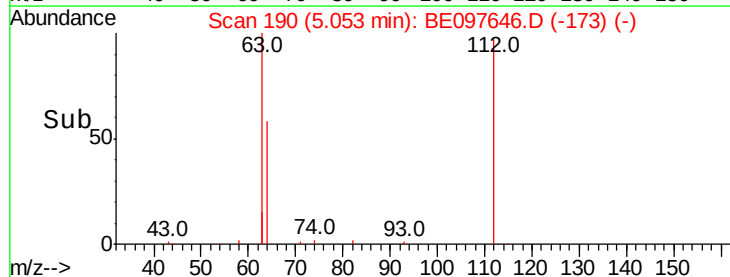


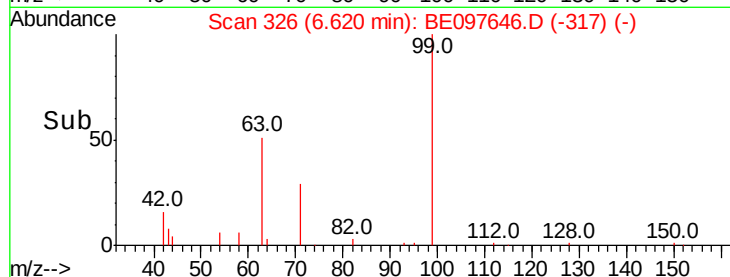
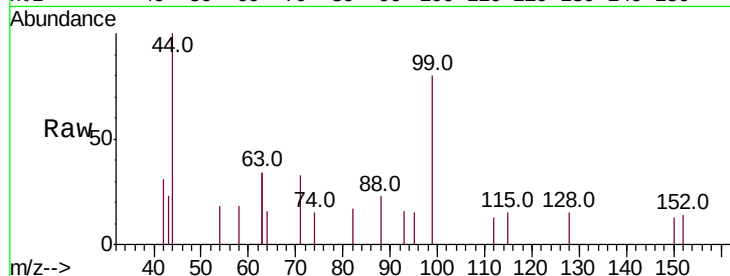
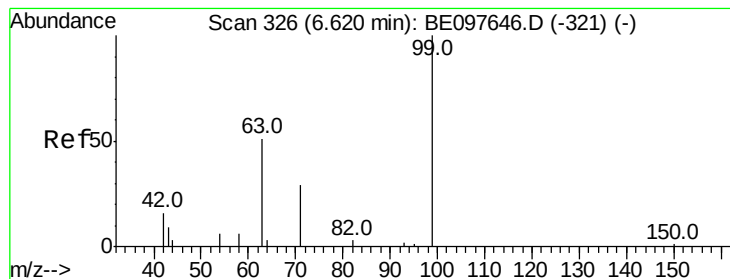
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Time-->





#5

Phenol-d6

Concen: 0.289 ng

RT: 6.62 min Scan# 326

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

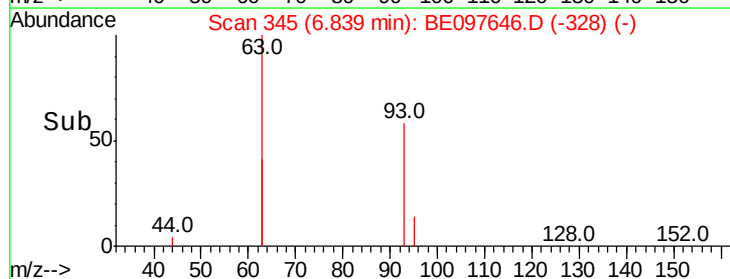
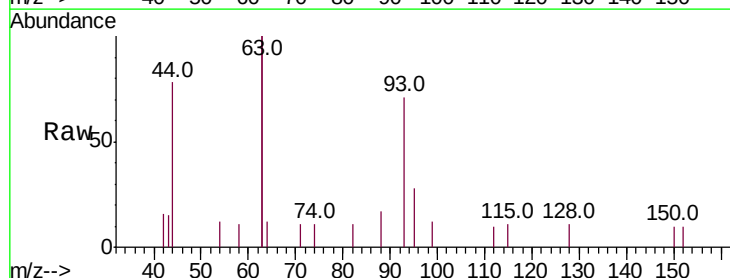
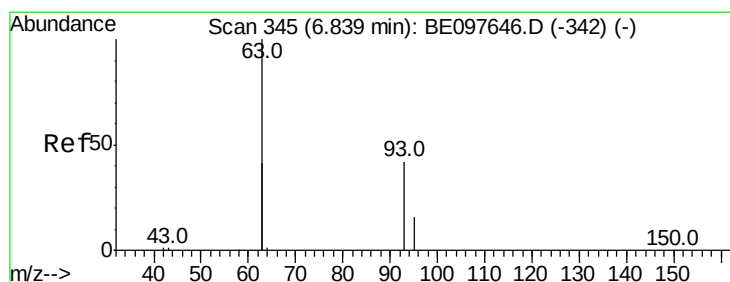
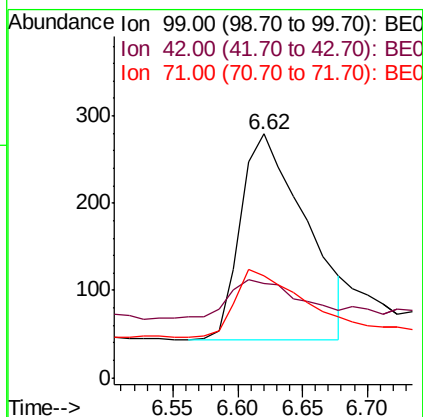
Tot Ion: 99 Resp: 824

Ion Ratio Lower Upper

99 100

42 18.9 20.2 30.2#

71 33.0 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.351 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

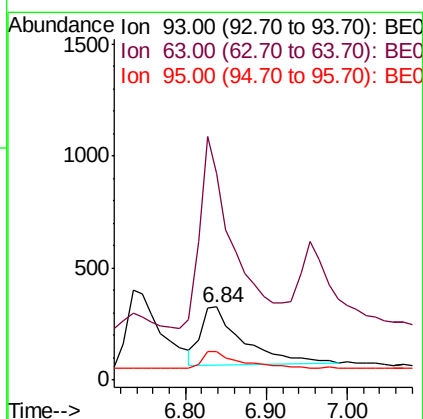
Tgt Ion: 93 Resp: 927

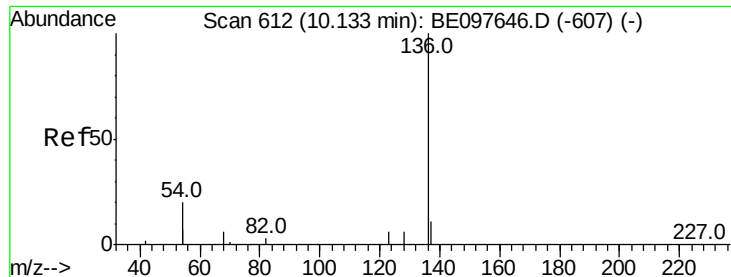
Ion Ratio Lower Upper

93 100

63 267.7 275.3 412.9#

95 27.3 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: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampled :

Tot Ion:136 Resp: 3765

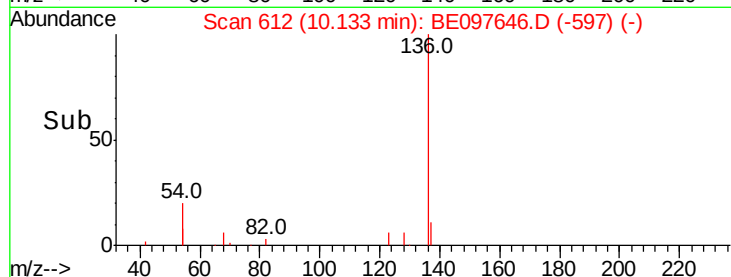
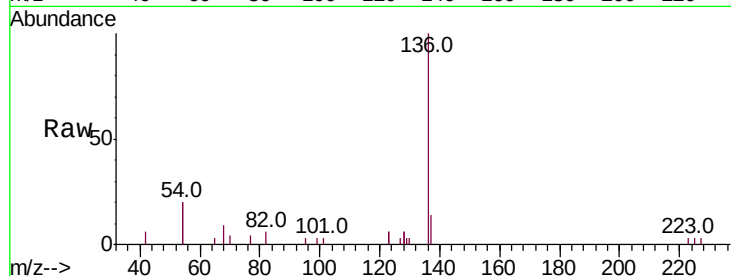
Ion Ratio Lower Upper

136 100

137 13.6 9.5 14.3

54 39.1 29.1 43.7

68 8.7 6.2 9.2

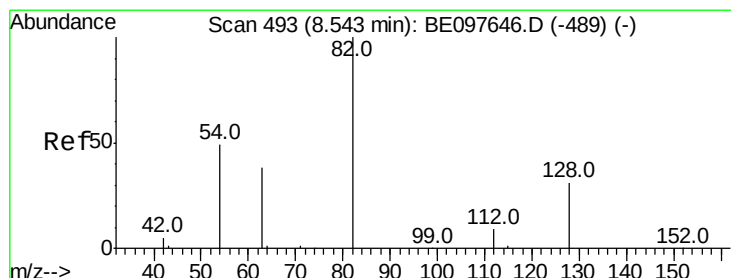
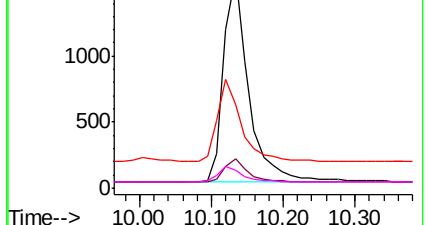


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.282 ng

RT: 8.54 min Scan# 493

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

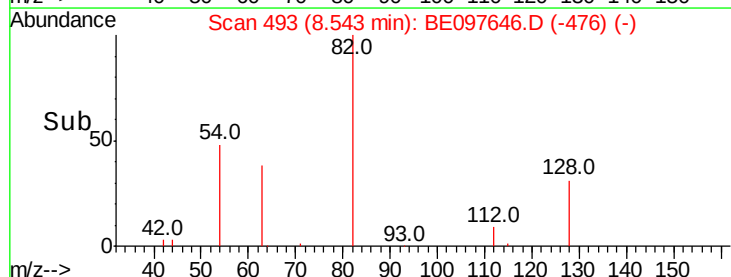
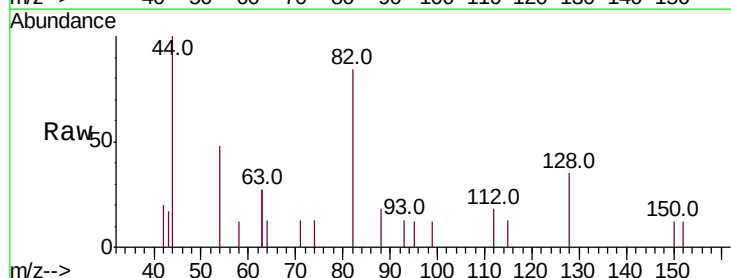
Tgt Ion: 82 Resp: 820

Ion Ratio Lower Upper

82 100

128 41.2 24.0 36.0#

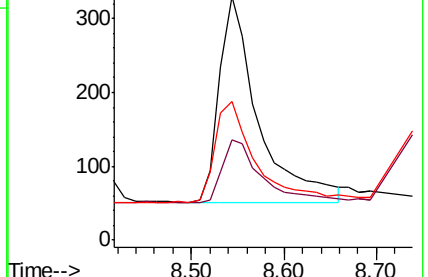
54 57.0 40.0 60.0

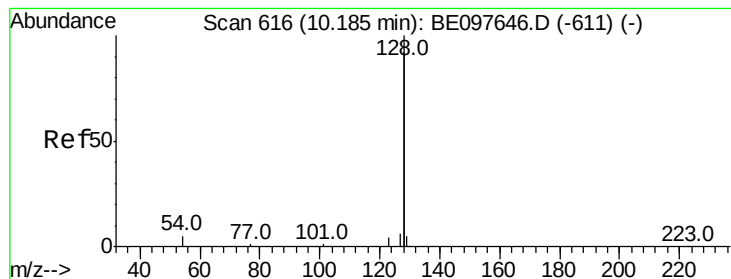


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.376 ng

RT: 10.19 min Scan# 616

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

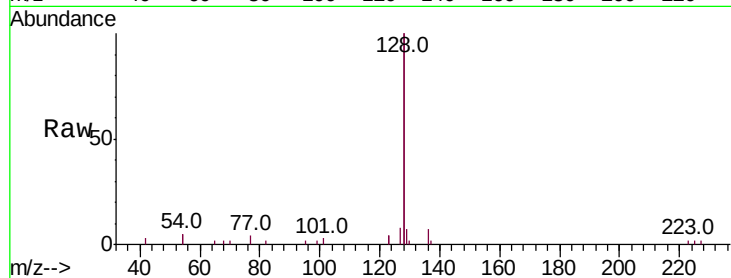
Tot Ion:128 Resp: 12748

Ion Ratio Lower Upper

128 100

129 3.6 2.6 3.8

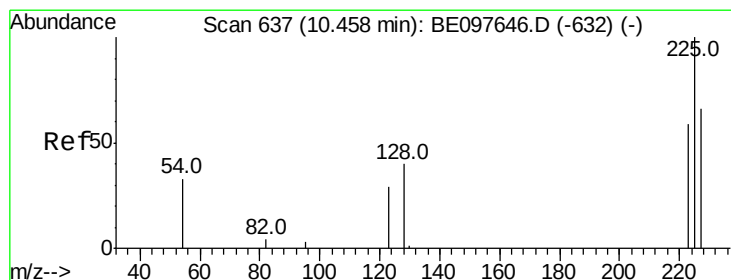
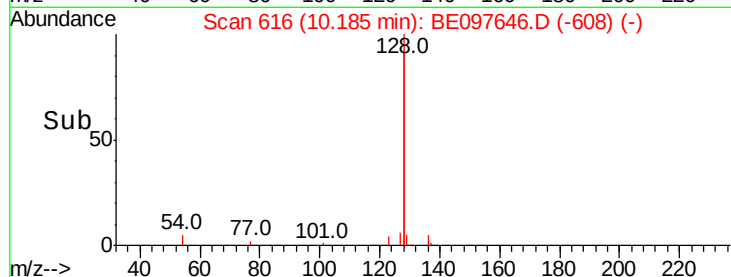
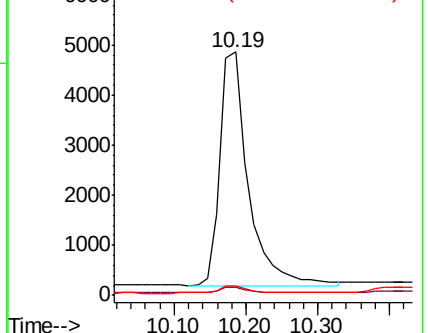
127 3.9 2.8 4.2



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: 0.366 ng

RT: 10.46 min Scan# 637

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

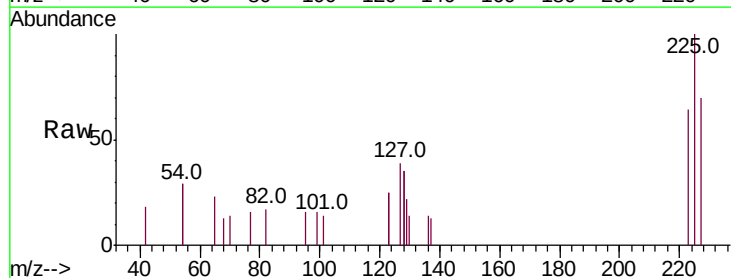
Tgt Ion:225 Resp: 572

Ion Ratio Lower Upper

225 100

223 62.9 53.0 79.6

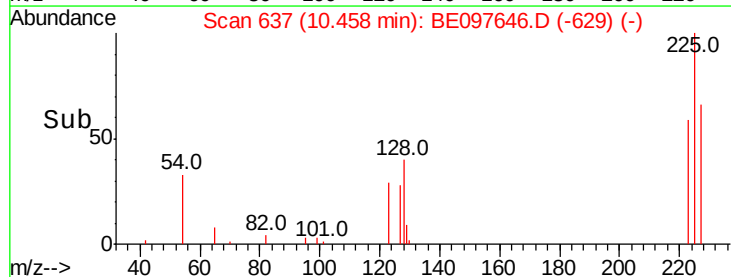
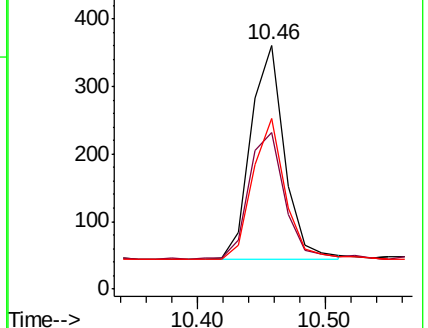
227 64.5 51.4 77.2

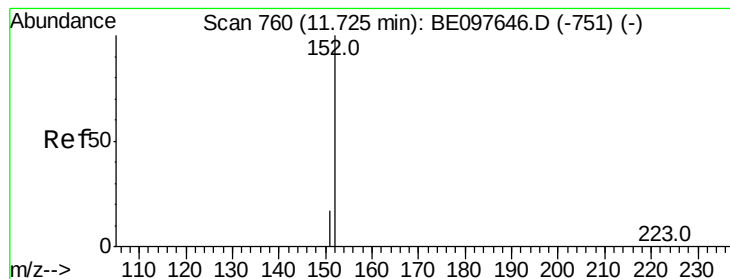


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.403 ng

RT: 11.72 min Scan# 760

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

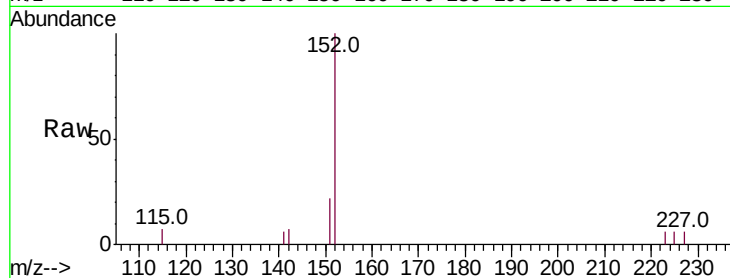
ClientSampled :

Tot Ion:152 Resp: 2091

Ion Ratio Lower Upper

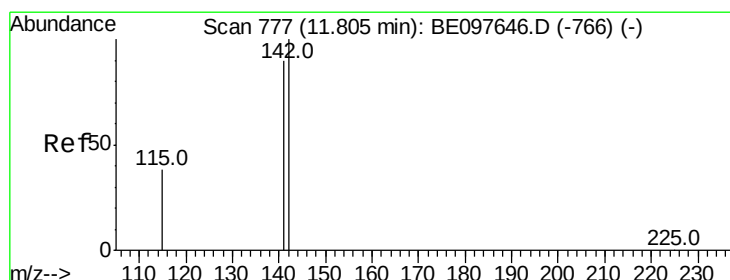
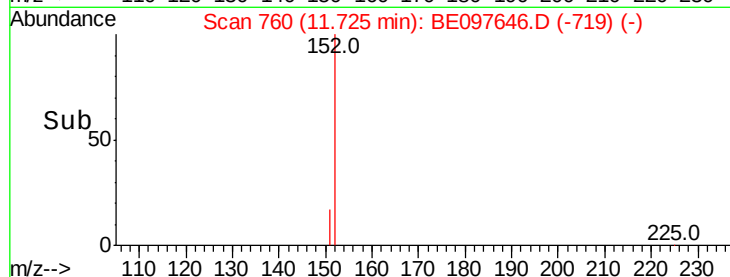
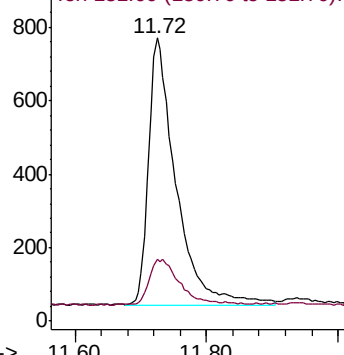
152 100

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: 0.382 ng

RT: 11.80 min Scan# 777

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

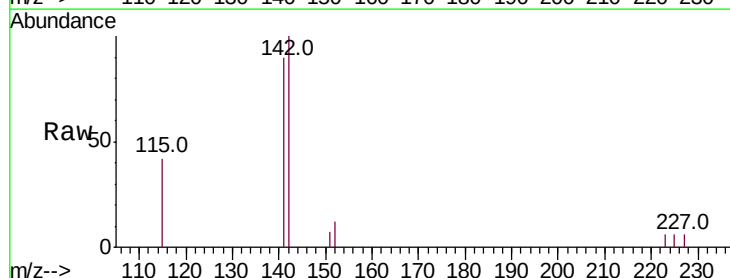
Tgt Ion:142 Resp: 2022

Ion Ratio Lower Upper

142 100

141 90.2 70.4 105.6

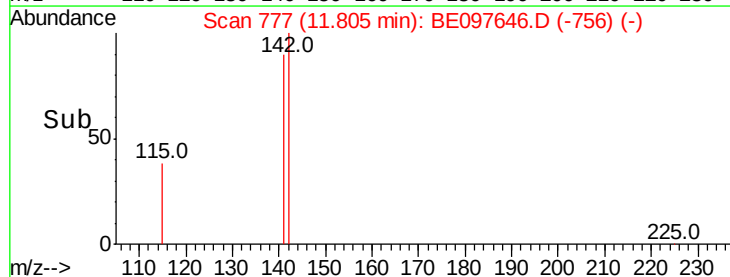
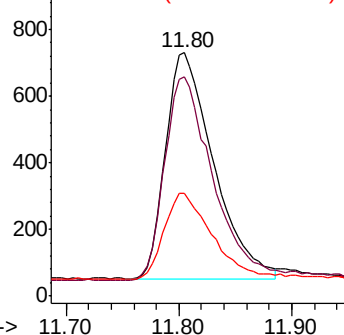
115 42.3 31.7 47.5



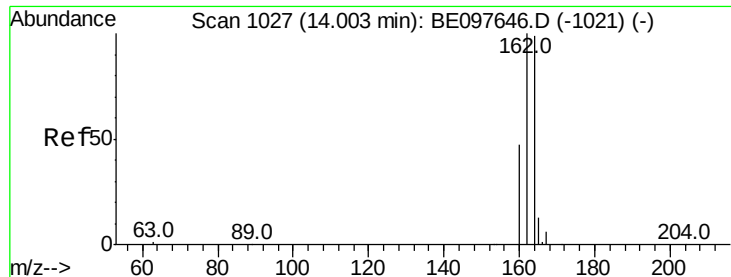
Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.00 min Scan# 1027

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

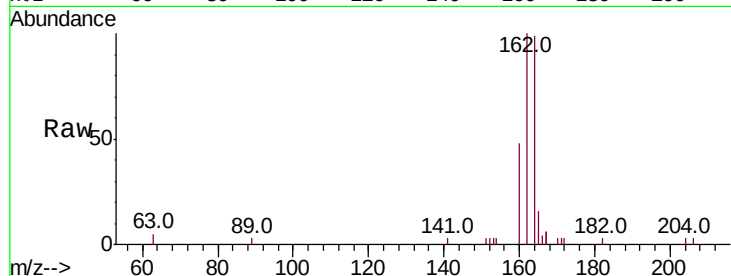
Tot Ion:164 Resp: 2576

Ion Ratio Lower Upper

164 100

162 101.1 83.1 124.7

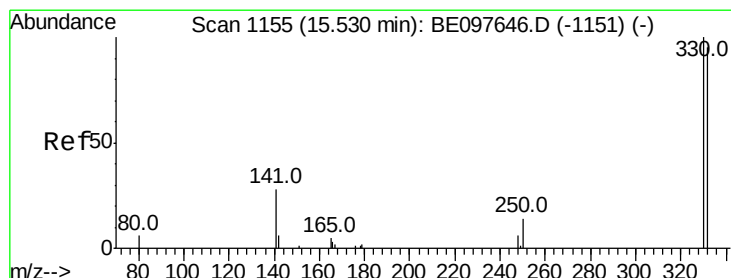
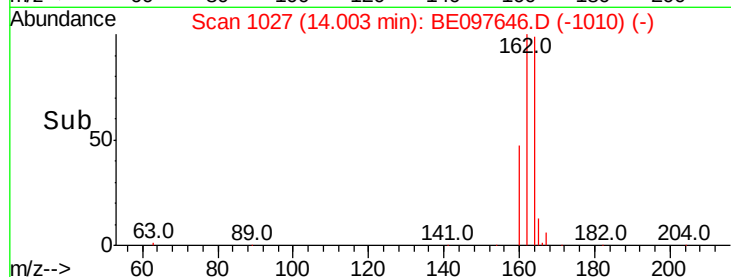
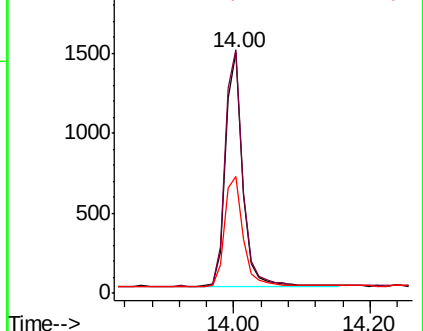
160 48.7 37.1 55.7



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: 0.324 ng

RT: 15.53 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

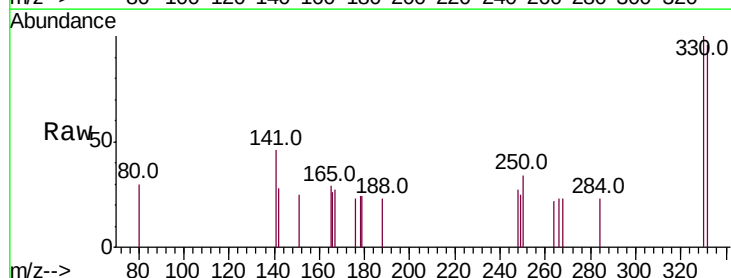
Tgt Ion:330 Resp: 347

Ion Ratio Lower Upper

330 100

332 95.1 152.7 229.1#

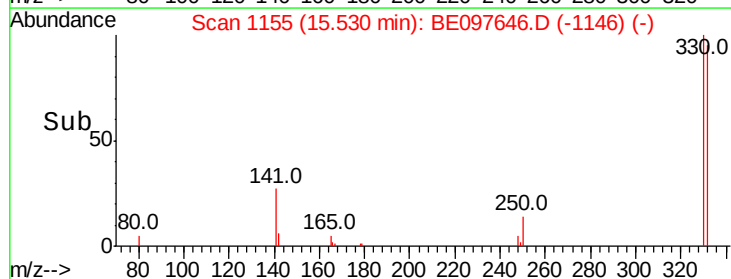
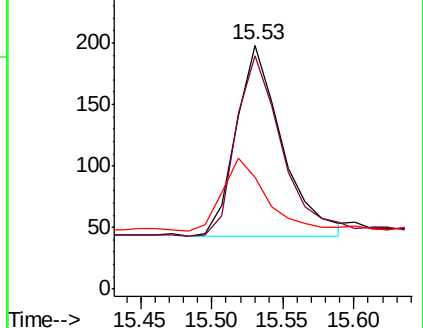
141 36.0 33.7 50.5

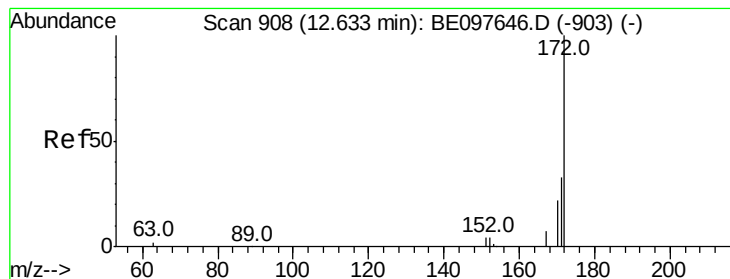


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.346 ng

RT: 12.63 min Scan# 908

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

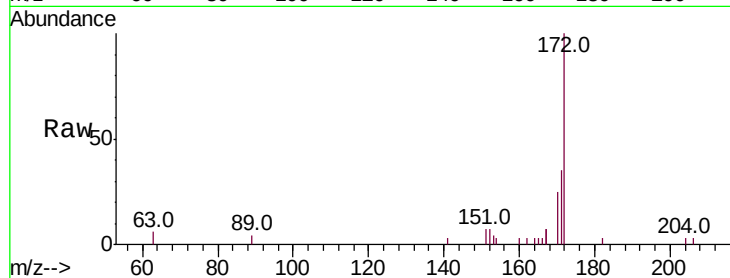
Tot Ion:172 Resp: 3152

Ion Ratio Lower Upper

172 100

171 35.5 29.9 44.9

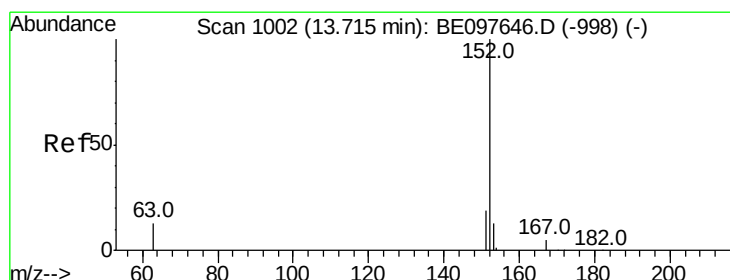
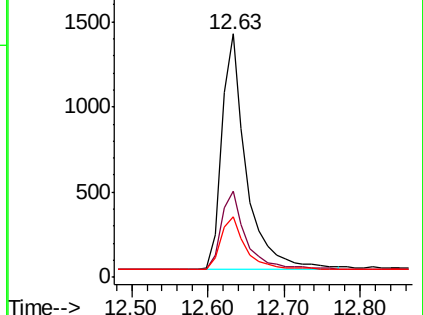
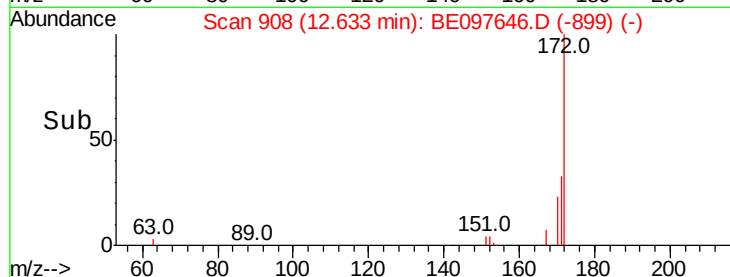
170 24.9 21.8 32.8



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: 0.364 ng

RT: 13.72 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

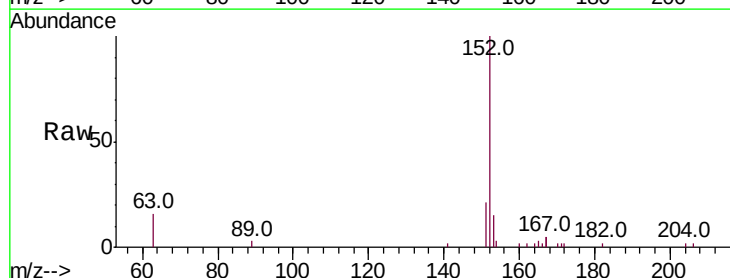
Tgt Ion:152 Resp: 3710

Ion Ratio Lower Upper

152 100

151 18.9 15.7 23.5

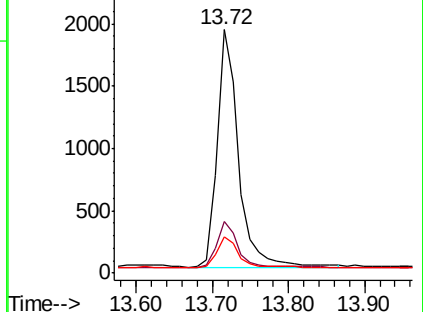
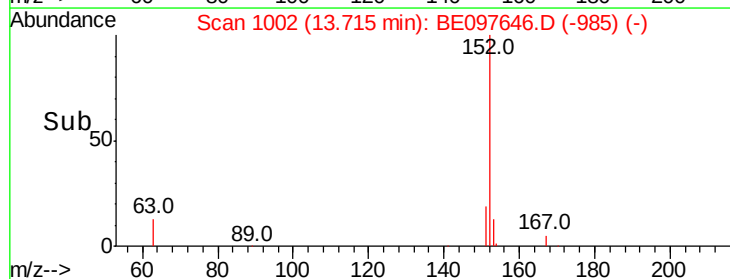
153 13.3 10.5 15.7

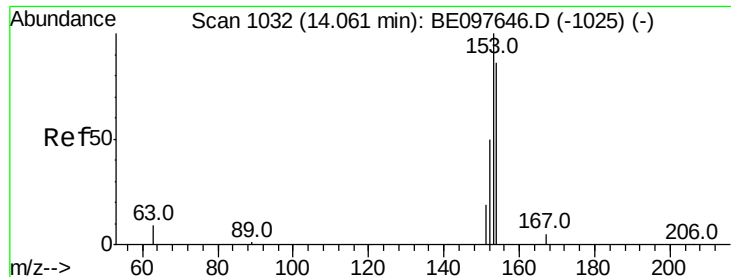


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

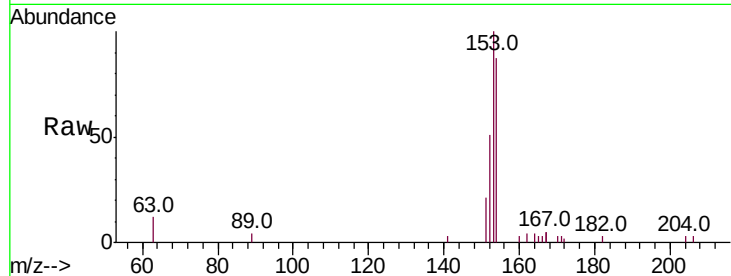




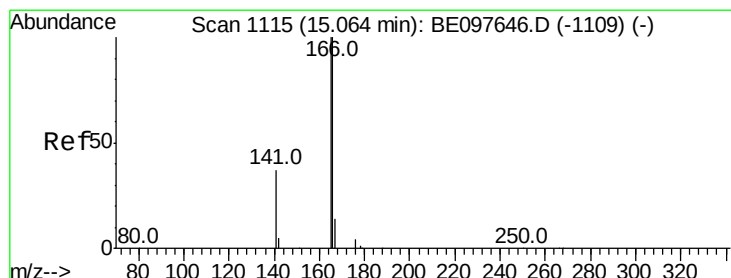
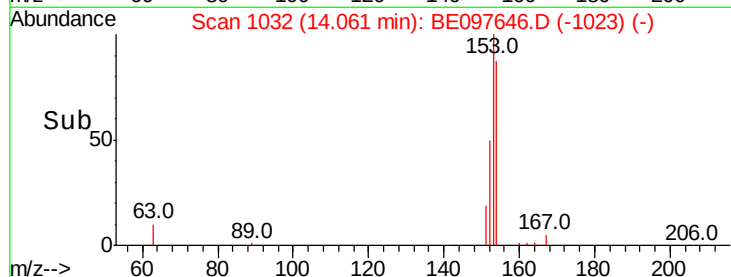
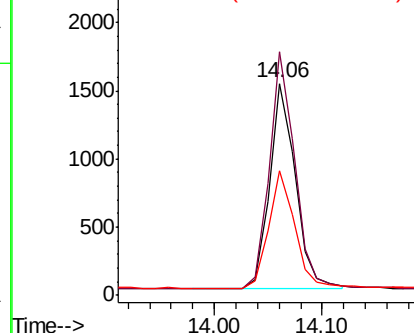
#17  
Acenaphthene  
Concen: 0.367 ng  
RT: 14.06 min Scan# 1032  
Delta R.T. 0.00 min  
Lab File: BE097646.D  
Acq: 24 Sep 2018 15:44

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 2506  
Ion Ratio Lower Upper  
154 100  
153 114.2 89.2 133.8  
152 58.3 42.0 63.0

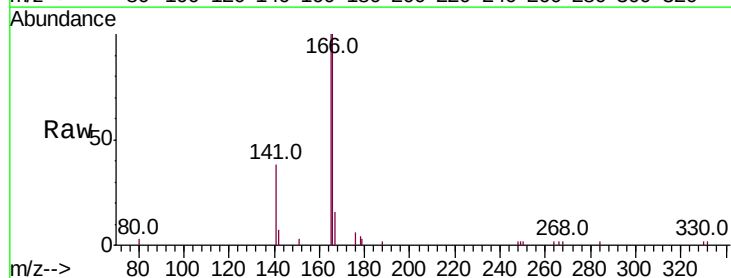


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

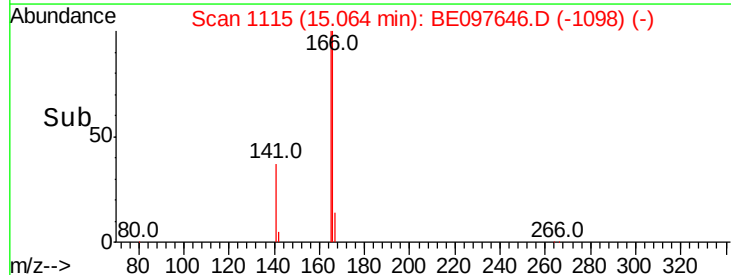
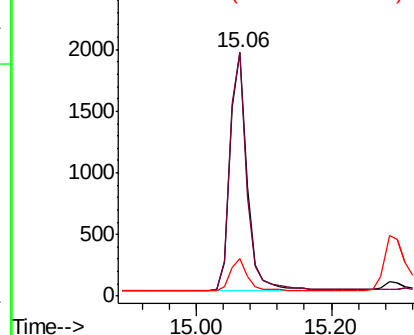


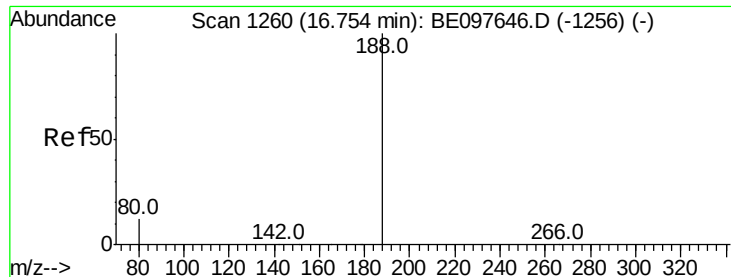
#18  
Fluorene  
Concen: 0.392 ng  
RT: 15.06 min Scan# 1115  
Delta R.T. 0.00 min  
Lab File: BE097646.D  
Acq: 24 Sep 2018 15:44

Tgt Ion:166 Resp: 3487  
Ion Ratio Lower Upper  
166 100  
165 98.5 77.8 116.6  
167 13.2 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: 16.75 min Scan# 1260

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

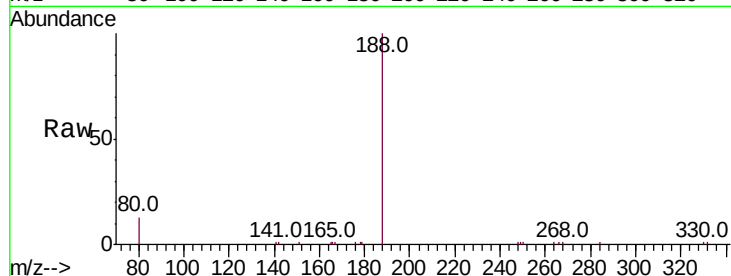
Tot Ion:188 Resp: 8008

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

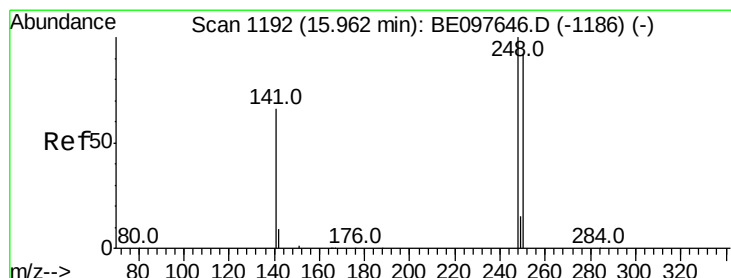
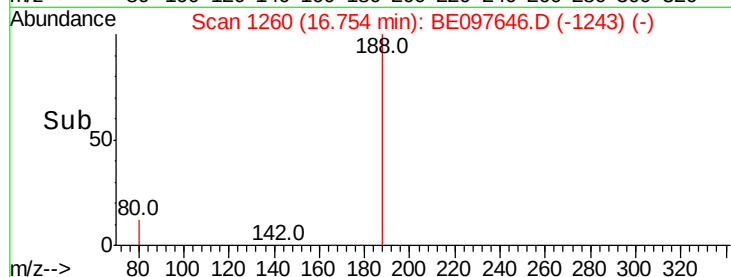
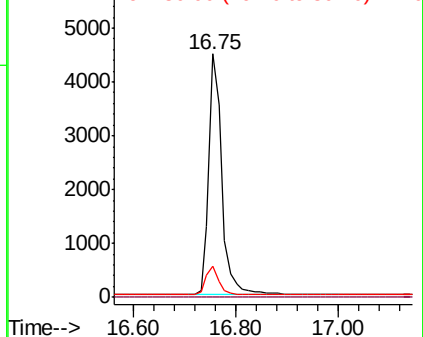
80 12.9 3.6 5.4#



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: 0.364 ng

RT: 15.96 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

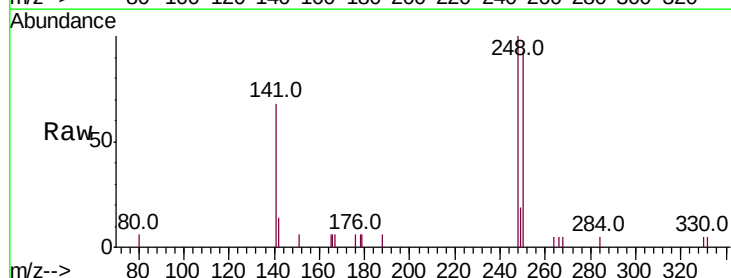
Tgt Ion:248 Resp: 1315

Ion Ratio Lower Upper

248 100

250 92.7 62.7 94.1

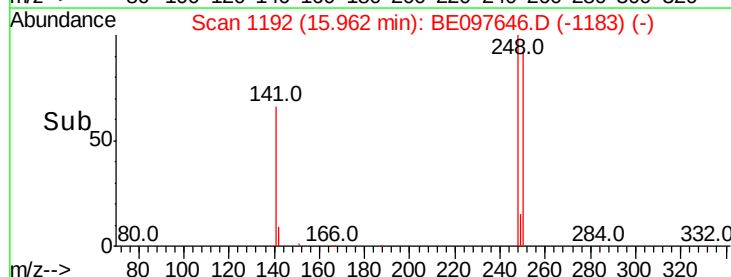
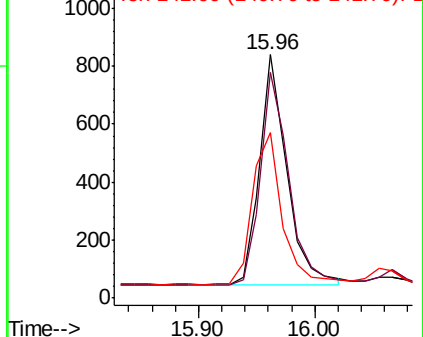
141 68.1 48.2 72.2

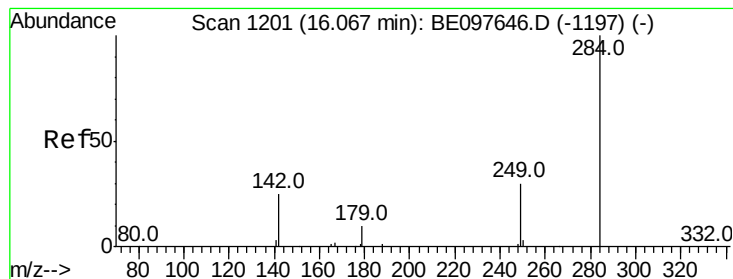


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.384 ng

RT: 16.07 min Scan# 1201

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampled :

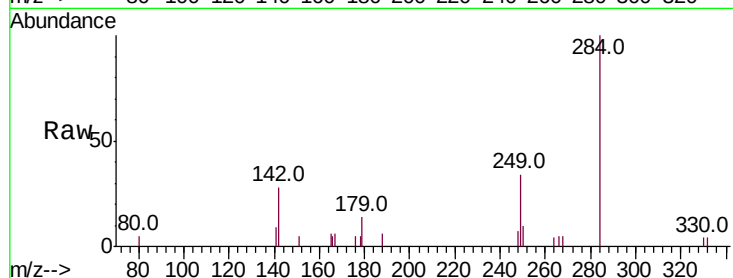
Tot Ion:284 Resp: 1525

Ion Ratio Lower Upper

284 100

142 30.9 22.1 33.1

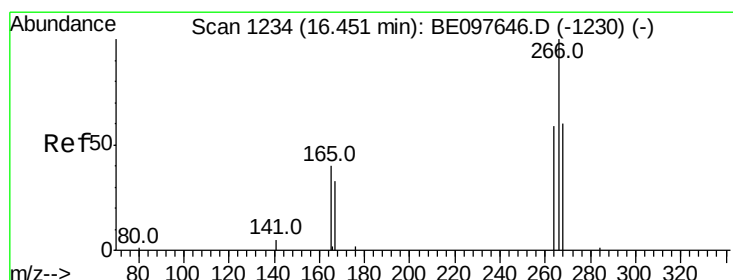
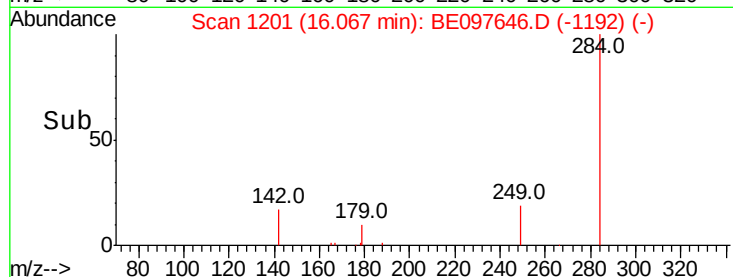
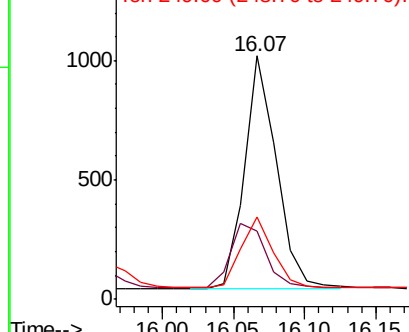
249 30.4 34.8 52.2#



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: 0.196 ng

RT: 16.45 min Scan# 1234

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

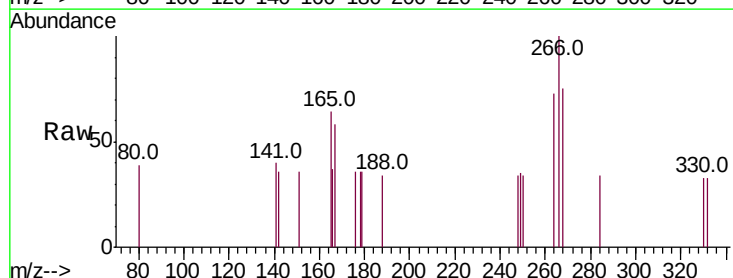
Tgt Ion:266 Resp: 272

Ion Ratio Lower Upper

266 100

264 72.7 72.5 108.7

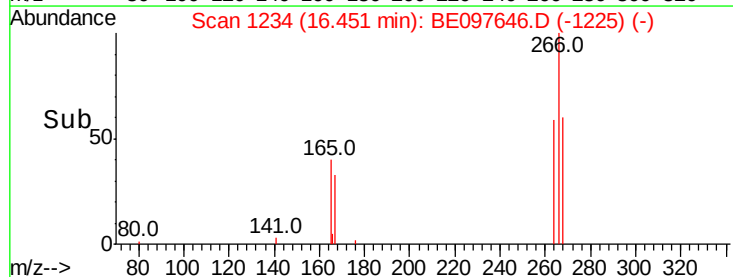
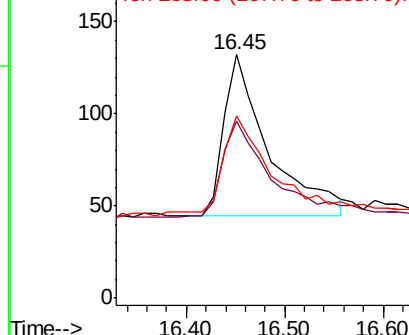
268 75.0 73.8 110.6

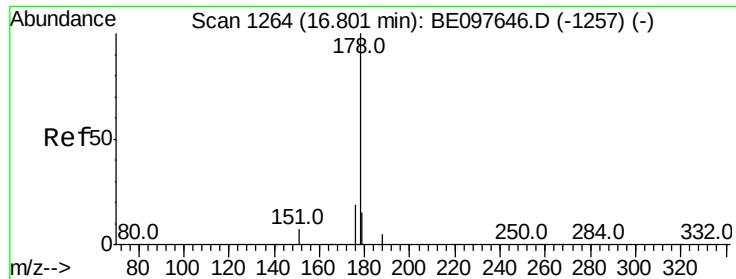


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.370 ng

RT: 16.80 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampled :

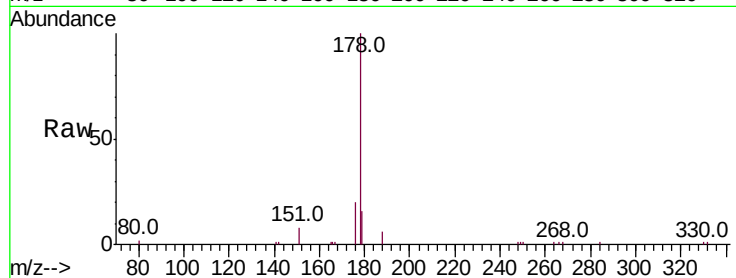
Tot Ion:178 Resp: 7031

Ion Ratio Lower Upper

178 100

176 19.3 15.1 22.7

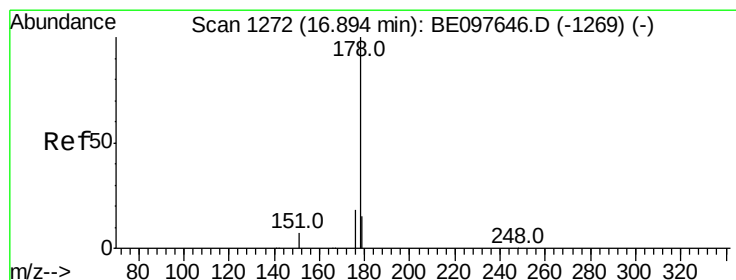
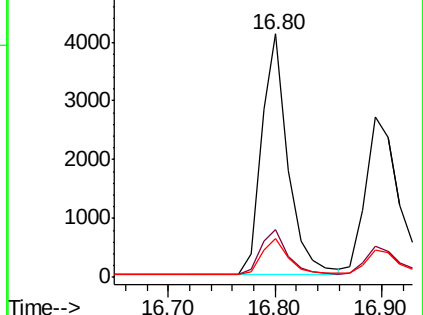
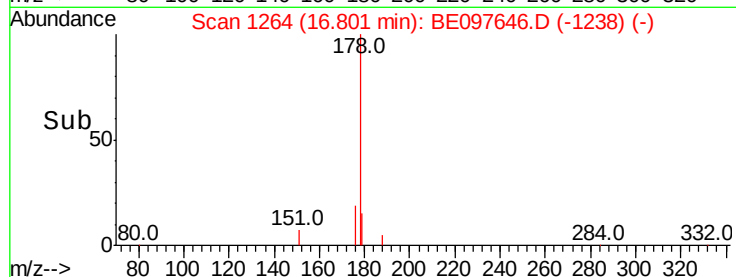
179 15.4 11.8 17.6



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: 0.334 ng

RT: 16.89 min Scan# 1272

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

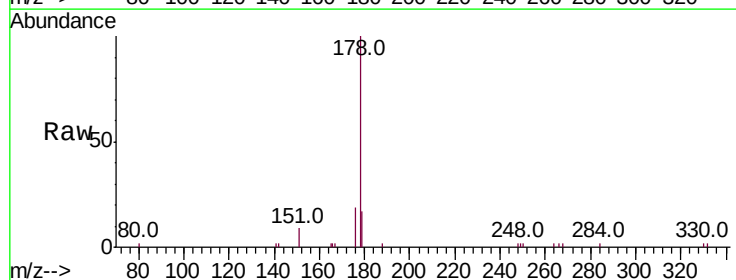
Tgt Ion:178 Resp: 5605

Ion Ratio Lower Upper

178 100

176 18.1 12.8 19.2

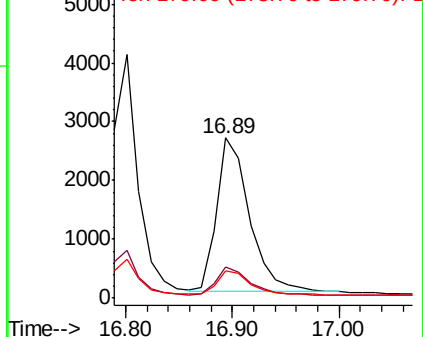
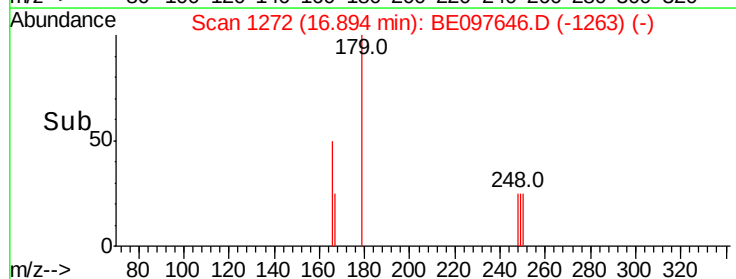
179 15.4 13.0 19.6

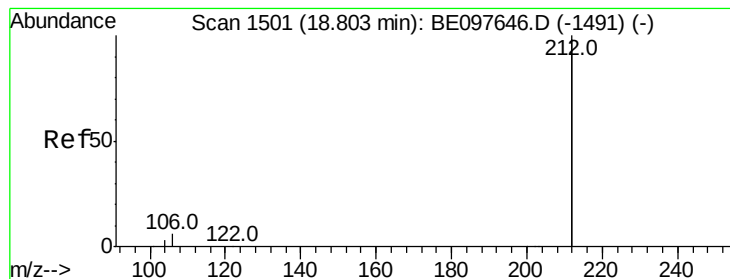


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.305 ng

RT: 18.80 min Scan# 1501

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

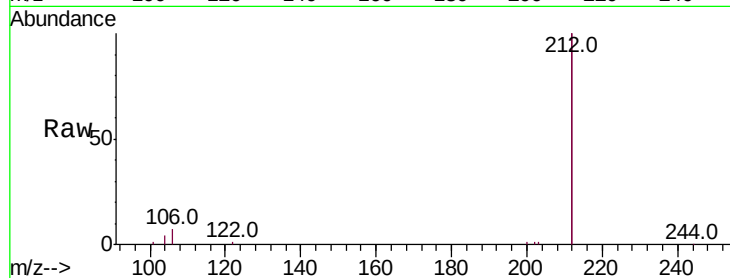
Tot Ion:212 Resp: 31298

Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

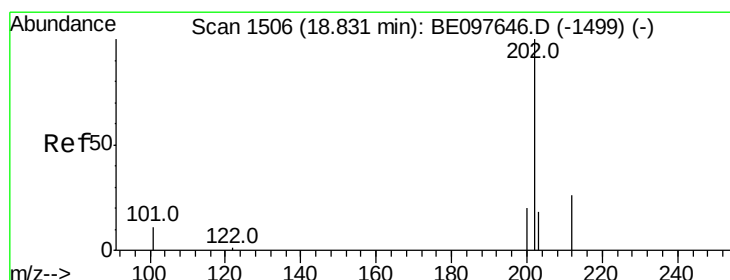
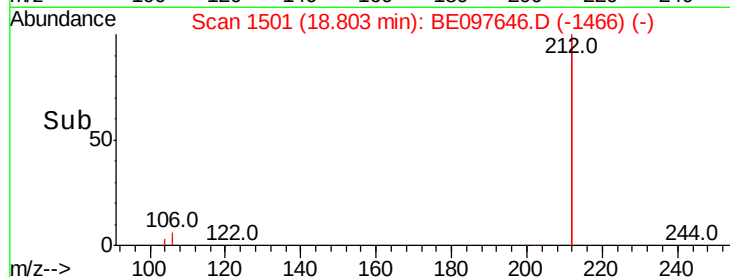
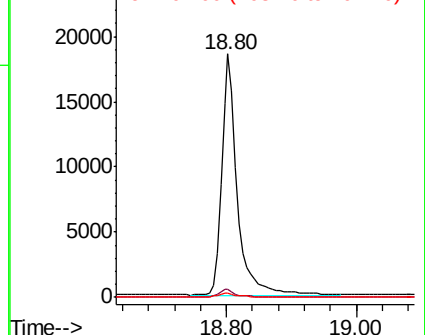
104 1.7 1.6 2.4



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: 0.309 ng

RT: 18.83 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

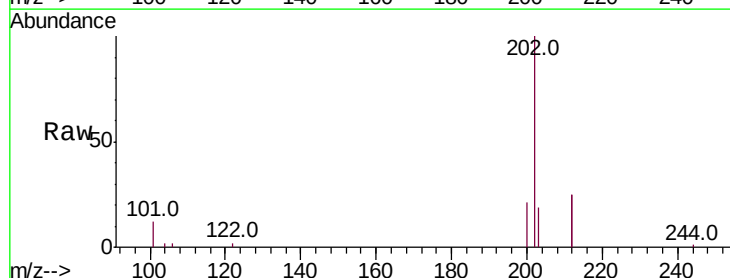
Tgt Ion:202 Resp: 8150

Ion Ratio Lower Upper

202 100

101 11.4 9.8 14.8

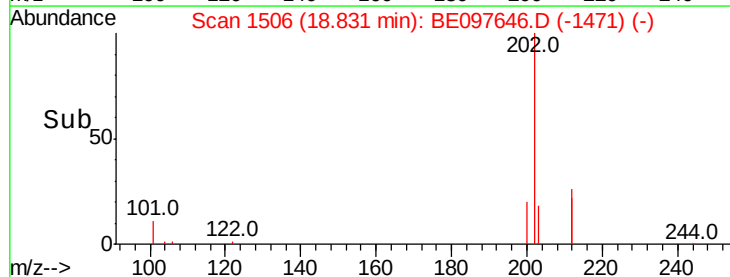
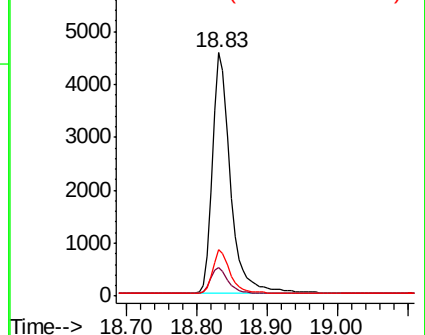
203 17.4 13.7 20.5

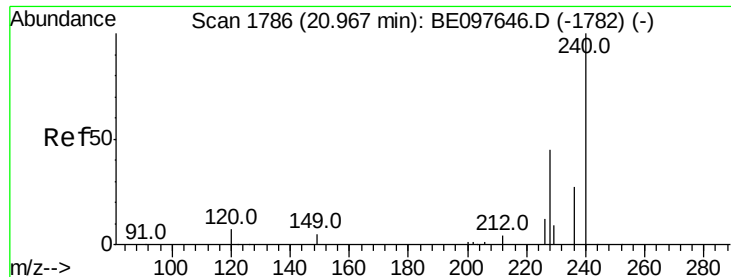


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

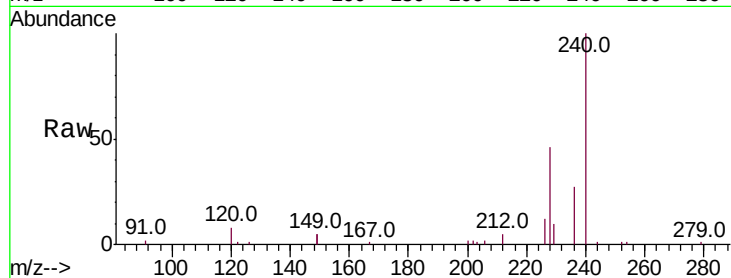
Tot Ion:240 Resp: 8539

Ion Ratio Lower Upper

240 100

120 8.0 5.5 8.3

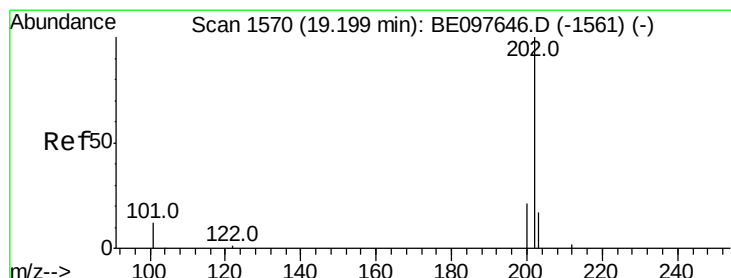
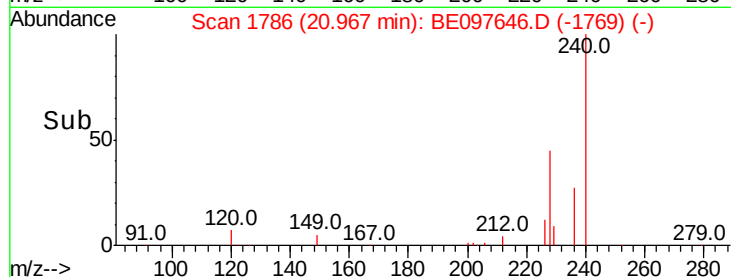
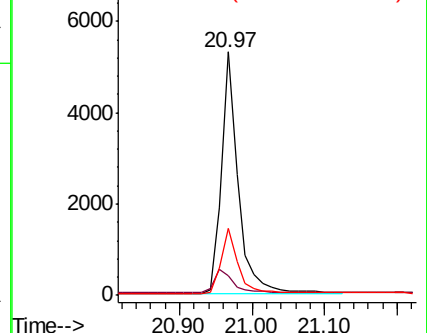
236 27.4 20.7 31.1



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: 0.427 ng

RT: 19.20 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

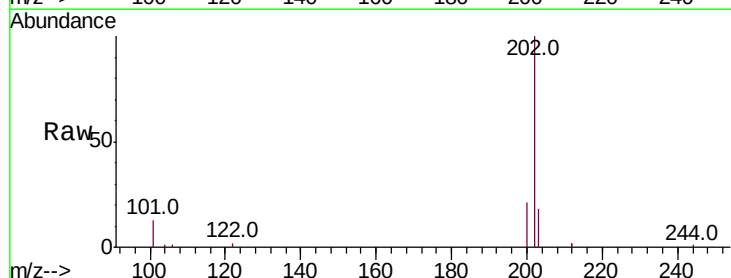
Tgt Ion:202 Resp: 8308

Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

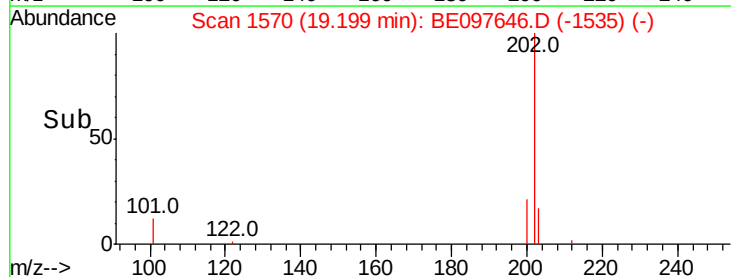
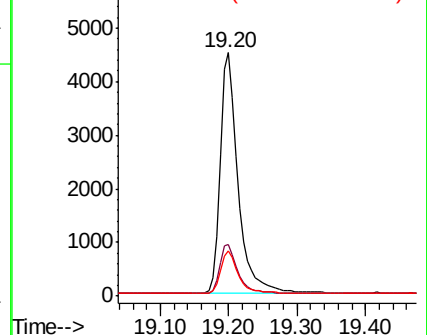
203 17.7 13.8 20.8



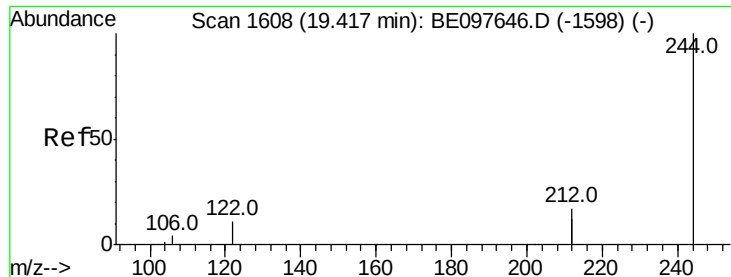
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.394 ng

RT: 19.42 min Scan# 1608

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampled :

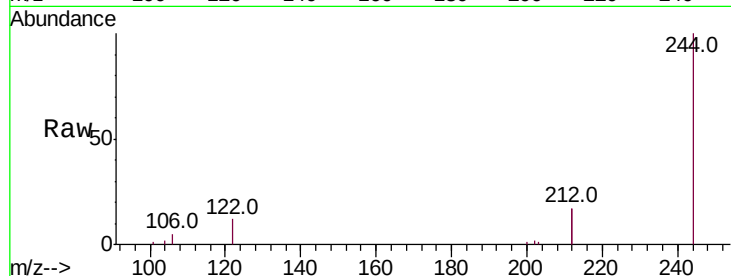
Tot Ion:244 Resp: 6153

Ion Ratio Lower Upper

244 100

212 34.4 25.4 38.0

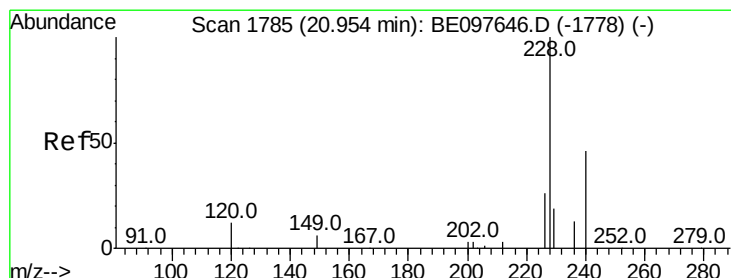
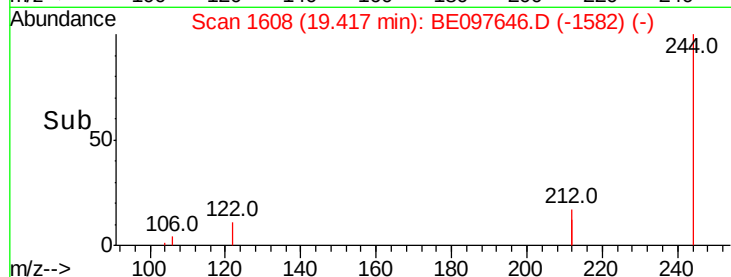
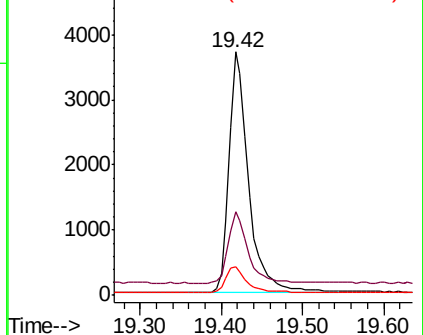
122 12.0 8.1 12.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.326 ng

RT: 20.95 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

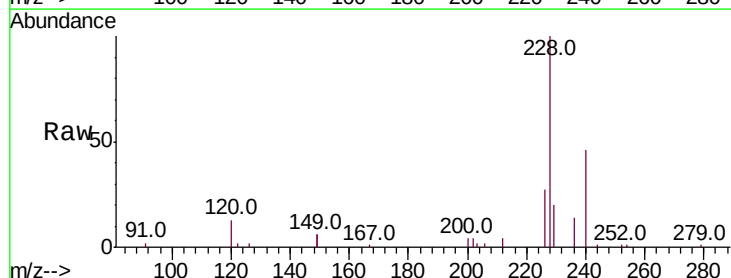
Tgt Ion:228 Resp: 7010

Ion Ratio Lower Upper

228 100

226 27.2 24.0 36.0

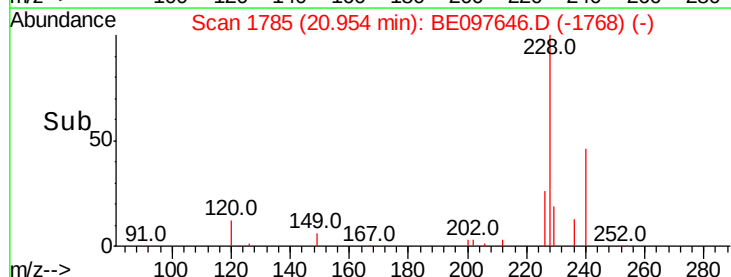
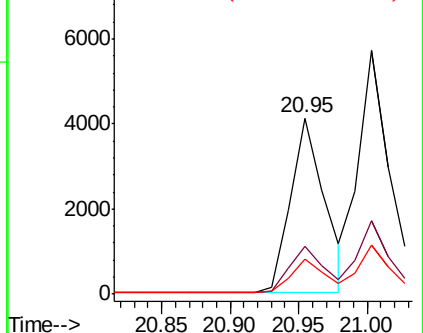
229 20.0 16.0 24.0

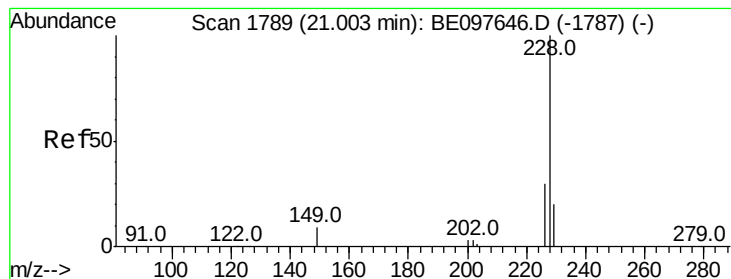


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.398 ng

RT: 21.00 min Scan# 1789

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

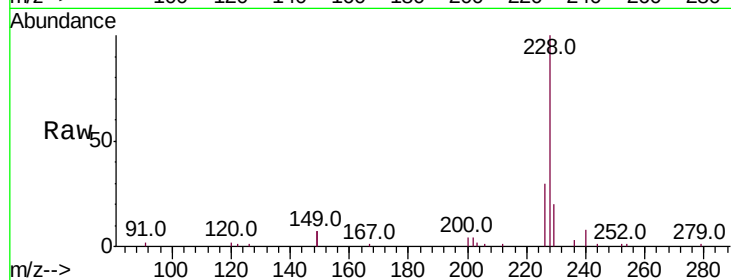
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 9177

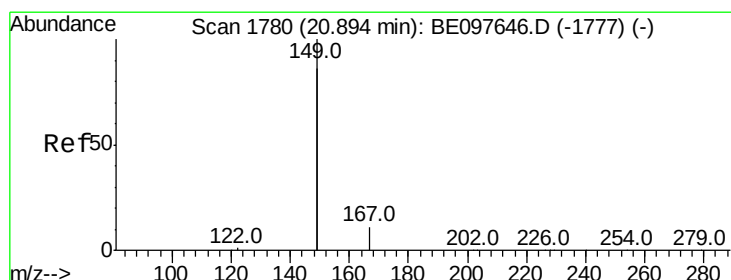
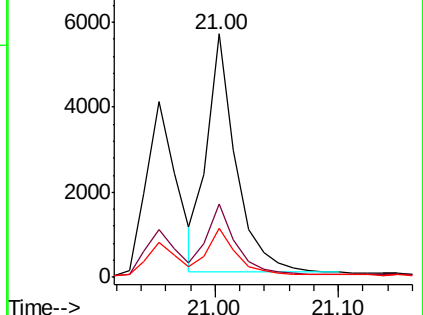
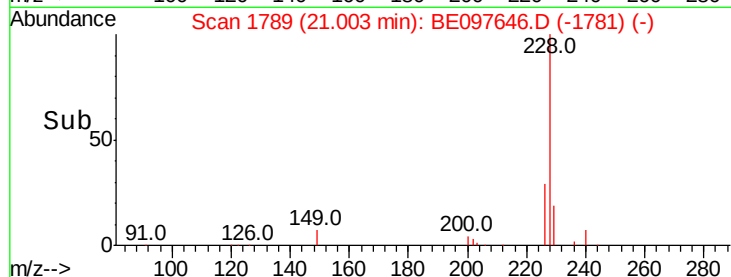
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.0  | 24.0  | 36.0  |
| 229 | 20.1  | 16.0  | 24.0  |



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: 0.189 ng

RT: 20.89 min Scan# 1780

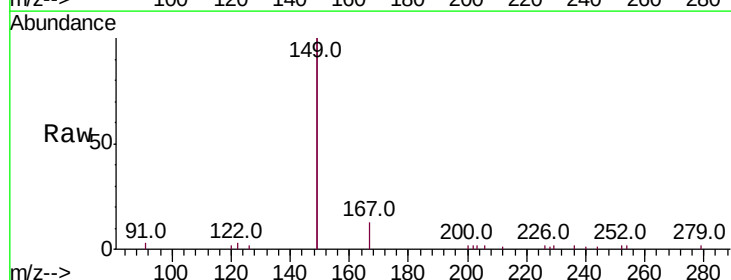
Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Tgt Ion:149 Resp: 8078

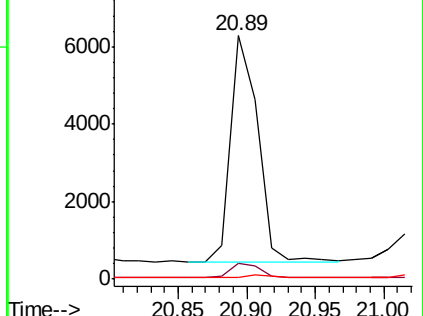
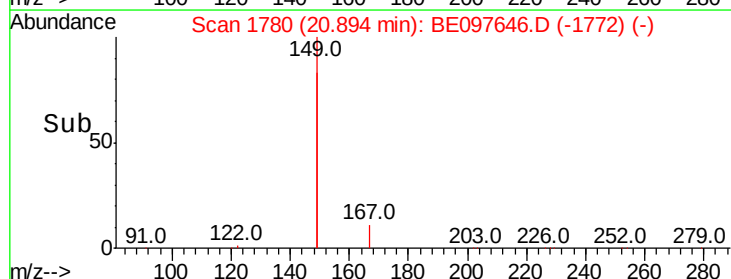
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.2   | 5.4   | 8.0   |
| 279 | 1.1   | 0.7   | 1.1#  |

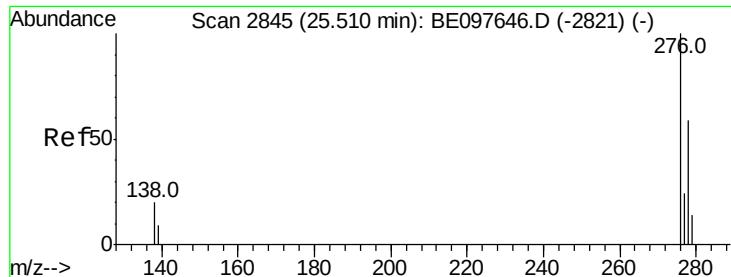


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.337 ng

RT: 25.51 min Scan# 2845

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

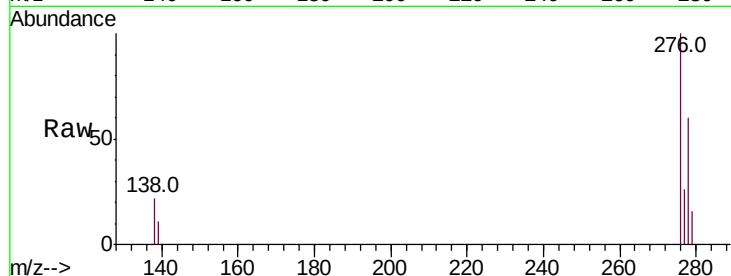
Tot Ion:276 Resp: 9365

Ion Ratio Lower Upper

276 100

138 20.8 22.5 33.7#

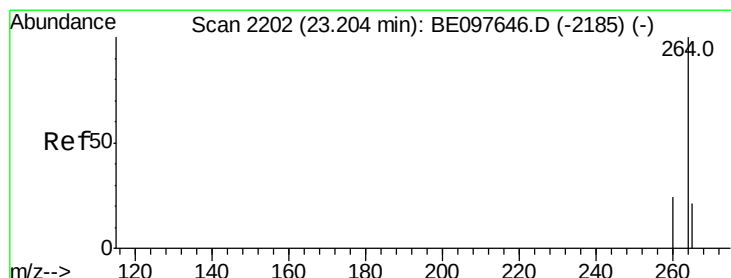
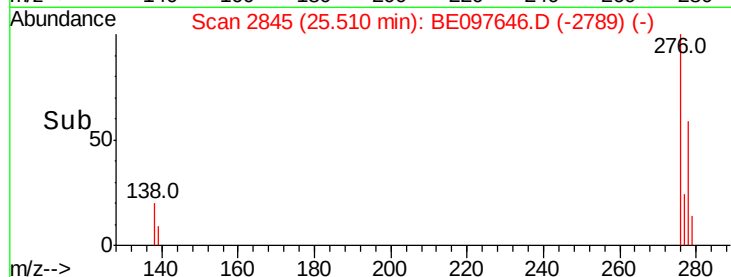
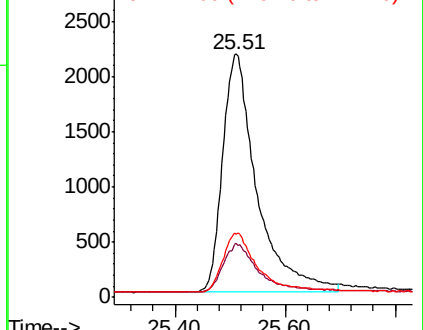
277 24.3 19.9 29.9



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: 23.20 min Scan# 2202

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

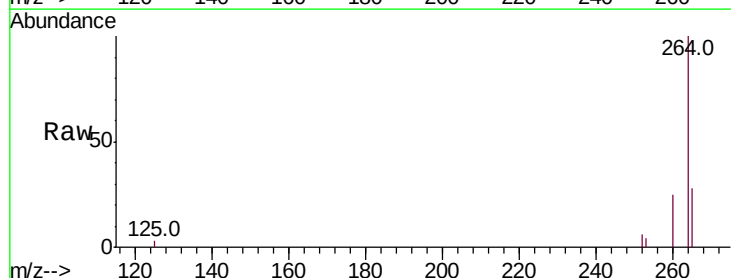
Tgt Ion:264 Resp: 7901

Ion Ratio Lower Upper

264 100

260 25.4 20.5 30.7

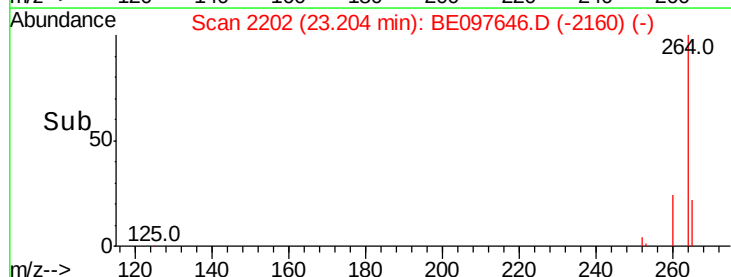
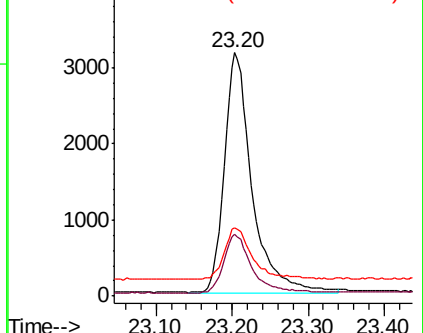
265 28.1 22.8 34.2

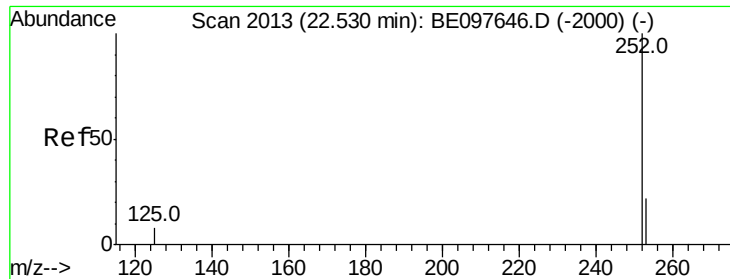


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.370 ng

RT: 22.53 min Scan# 2013

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

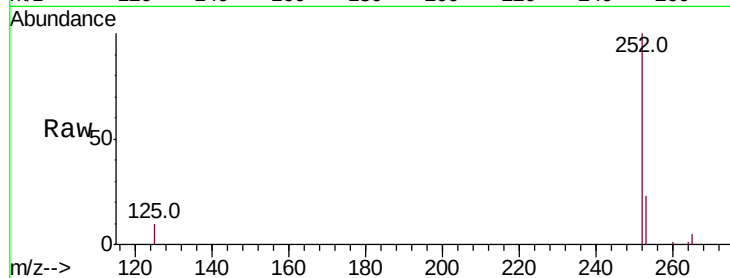
Tot Ion:252 Resp: 7497

Ion Ratio Lower Upper

252 100

253 23.4 20.0 30.0

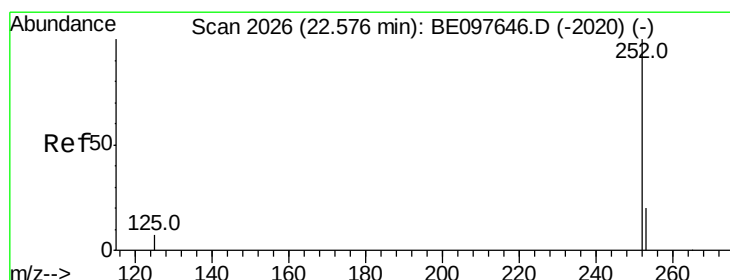
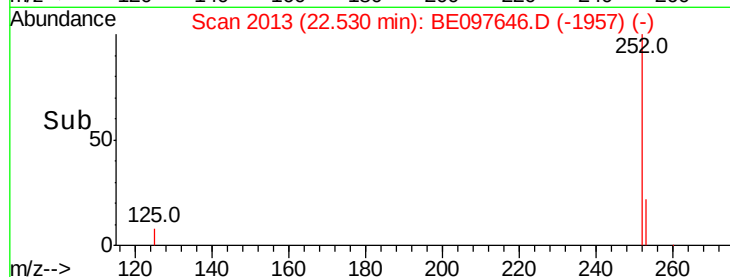
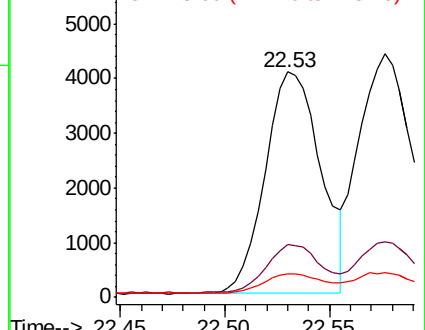
125 10.2 16.0 24.0#



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: 0.385 ng

RT: 22.58 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

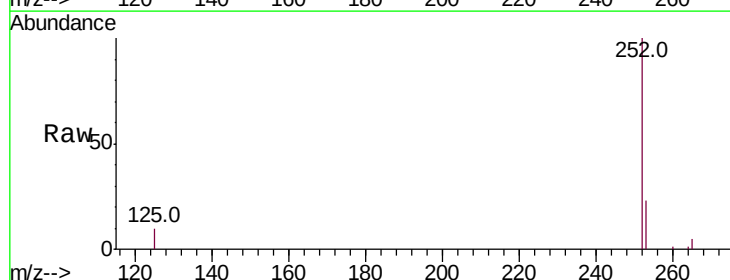
Tgt Ion:252 Resp: 8903

Ion Ratio Lower Upper

252 100

253 22.8 16.0 24.0

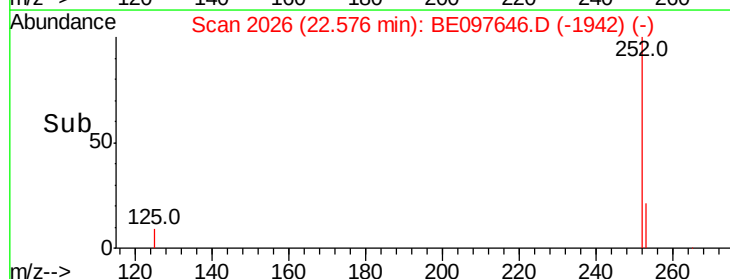
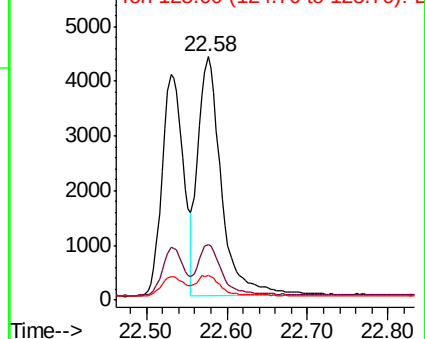
125 10.2 8.0 12.0

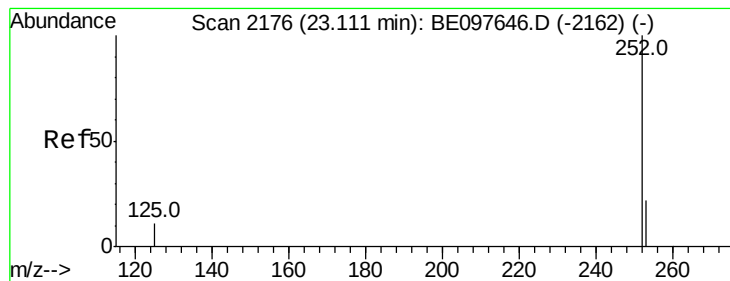


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.346 ng

RT: 23.11 min Scan# 2176

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

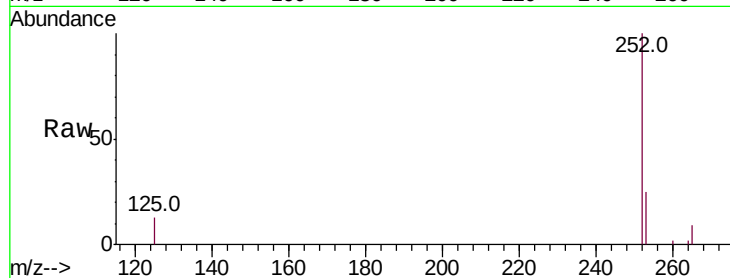
Tot Ion:252 Resp: 7201

Ion Ratio Lower Upper

252 100

253 25.1 16.0 24.0#

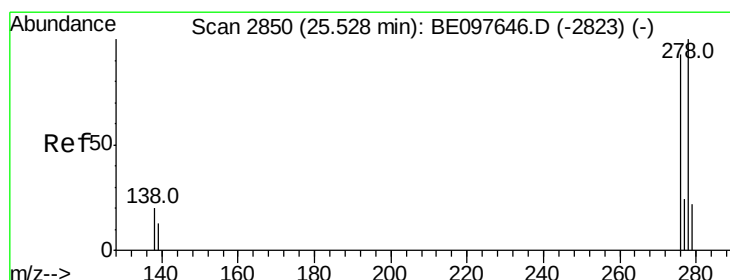
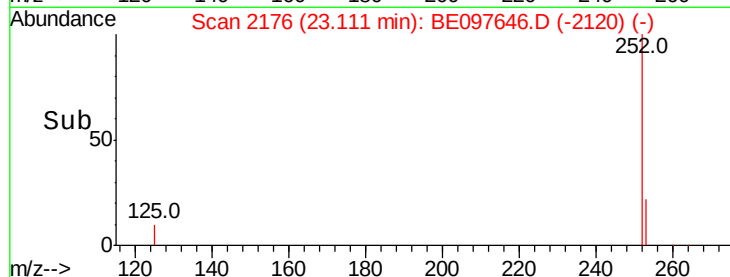
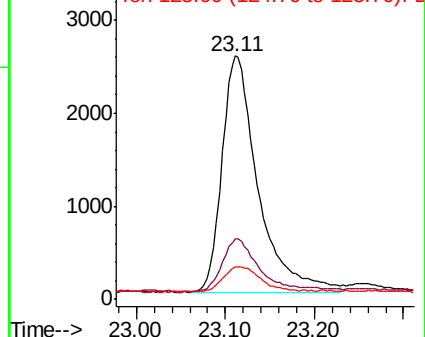
125 13.2 12.0 18.0



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: 0.352 ng

RT: 25.53 min Scan# 2850

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

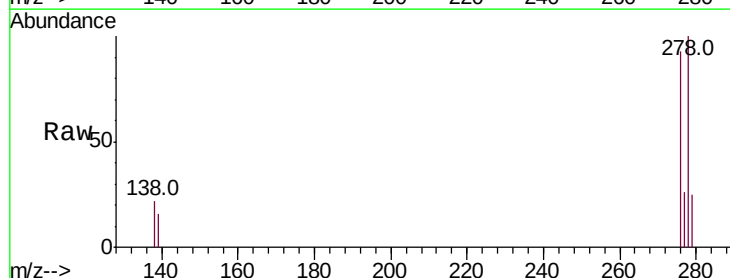
Tgt Ion:278 Resp: 7476

Ion Ratio Lower Upper

278 100

139 15.6 16.0 24.0#

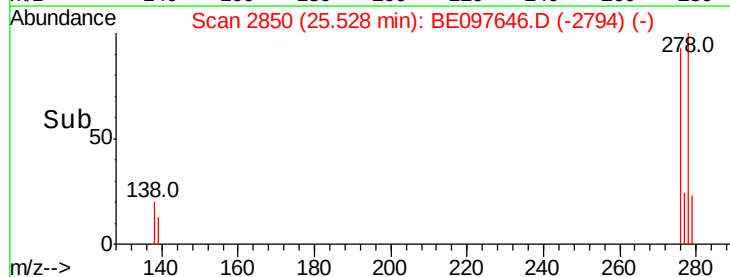
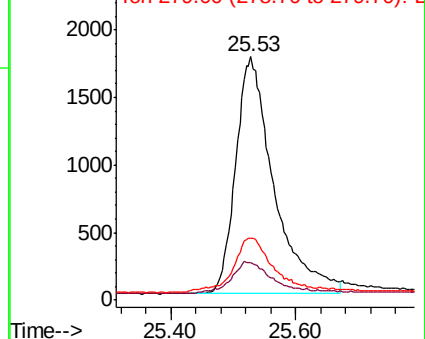
279 25.4 20.0 30.0

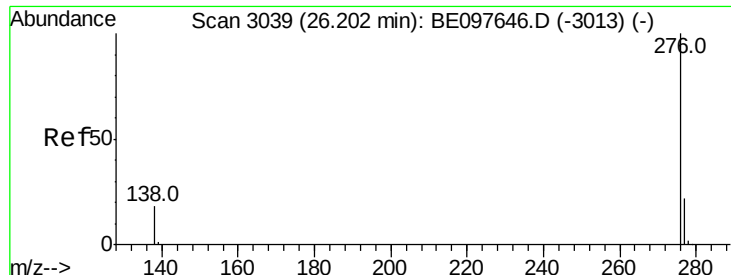


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.372 ng

RT: 26.20 min Scan# 3039

Delta R.T. 0.00 min

Lab File: BE097646.D

Acq: 24 Sep 2018 15:44

Instrument :

BNA\_E

ClientSampleId :

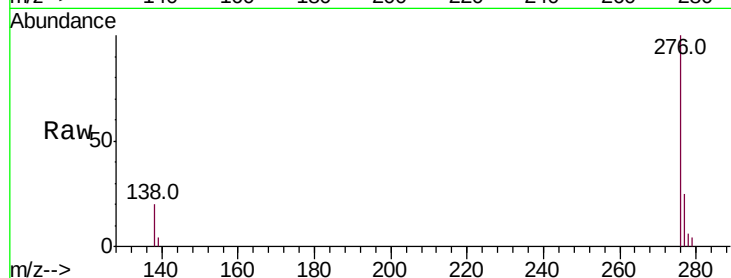
Tot Ion:276 Resp: 7679

Ion Ratio Lower Upper

276 100

277 24.6 16.0 24.0#

138 20.2 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

