

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092118\  
 Data File : BE097628.D  
 Acq On : 22 Sep 2018 1:56  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 22 04:10:29 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 20 10:54:43 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 681      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.13 | 136  | 3515     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2447     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.75 | 188  | 7696     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.97 | 240  | 8324     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 8186     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.05  | 112 | 728   | 0.36 | ng | 0.00 |
| 5) Phenol-d6                | 6.62  | 99  | 821   | 0.31 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.54  | 82  | 874   | 0.32 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.72 | 152 | 1973  | 0.41 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.53 | 330 | 390   | 0.42 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 12.63 | 172 | 3162  | 0.37 | ng | 0.01 |
| 25) Fluoranthene-d10        | 18.80 | 212 | 31890 | 0.32 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.42 | 244 | 6288  | 0.41 | ng | 0.00 |

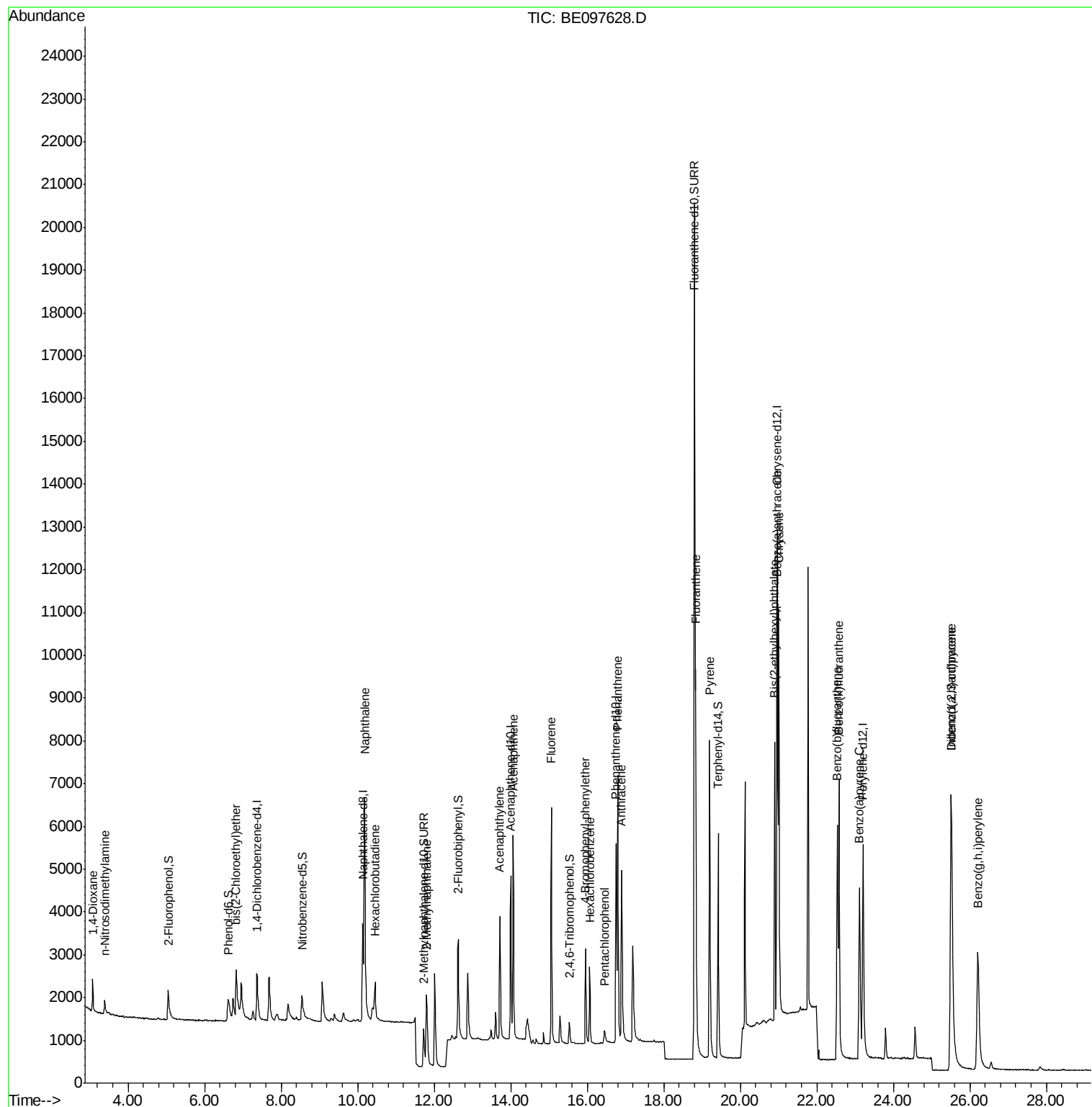
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.07  | 88  | 472   | 0.407  | ng | # 87 |
| 3) n-Nitrosodimethylamine      | 3.38  | 42  | 259   | 0.267  | ng | # 75 |
| 6) bis(2-Chloroethyl)ether     | 6.83  | 93  | 875   | 0.362  | ng | 72   |
| 9) Naphthalene                 | 10.18 | 128 | 12373 | 0.391  | ng | 98   |
| 10) Hexachlorobutadiene        | 10.46 | 225 | 578   | 0.396  | ng | 96   |
| 12) 2-Methylnaphthalene        | 11.80 | 142 | 2035  | 0.412  | ng | 99   |
| 16) Acenaphthylene             | 13.71 | 152 | 3808  | 0.394  | ng | 100  |
| 17) Acenaphthene               | 14.06 | 154 | 2599  | 0.401  | ng | 97   |
| 18) Fluorene                   | 15.06 | 166 | 3563  | 0.421  | ng | # 79 |
| 20) 4-Bromophenyl-phenylether  | 15.96 | 248 | 1348  | 0.389  | ng | # 84 |
| 21) Hexachlorobenzene          | 16.07 | 284 | 1545  | 0.405  | ng | # 85 |
| 22) Pentachlorophenol          | 16.45 | 266 | 283   | 0.295  | ng | # 81 |
| 23) Phenanthrene               | 16.80 | 178 | 7043  | 0.385  | ng | 98   |
| 24) Anthracene                 | 16.89 | 178 | 5807  | 0.360  | ng | 96   |
| 26) Fluoranthene               | 18.83 | 202 | 8385  | 0.331  | ng | 99   |
| 28) Pyrene                     | 19.20 | 202 | 8472  | 0.447  | ng | 100  |
| 30) Benzo(a)anthracene         | 20.96 | 228 | 7193  | 0.343  | ng | 97   |
| 31) Chrysene                   | 21.00 | 228 | 9292  | 0.413  | ng | 100  |
| 32) Bis(2-ethylhexyl)phthalate | 20.89 | 149 | 9476  | 0.280  | ng | # 99 |
| 33) Indeno(1,2,3-cd)pyrene     | 25.51 | 276 | 10567 | 0.390  | ng | # 93 |
| 35) Benzo(b)fluoranthene       | 22.53 | 252 | 7577  | 0.361  | ng | # 90 |
| 36) Benzo(k)fluoranthene       | 22.58 | 252 | 9871  | 0.412  | ng | 94   |
| 37) Benzo(a)pyrene             | 23.11 | 252 | 7948  | 0.391  | ng | # 93 |
| 38) Dibenzo(a,h)anthracene     | 25.52 | 278 | 8563  | 0.389  | ng | 96   |
| 39) Benzo(g,h,i)perylene       | 26.21 | 276 | 8350  | 0.390  | ng | # 89 |

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

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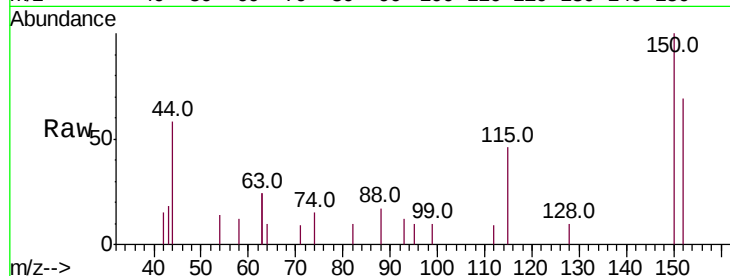


#1

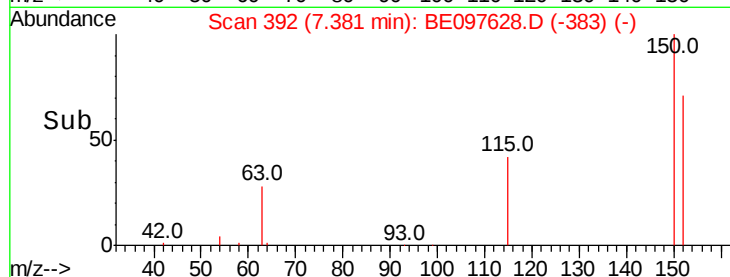
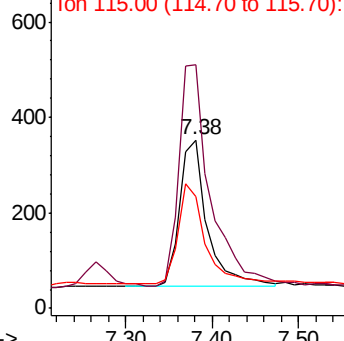
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.38 min Scan# 392  
Delta R.T. 0.00 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 681  
Ion Ratio Lower Upper  
152 100  
150 144.5 117.2 175.8  
115 66.0 57.0 85.6



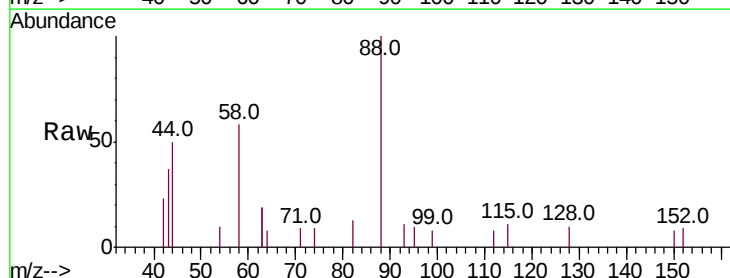
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



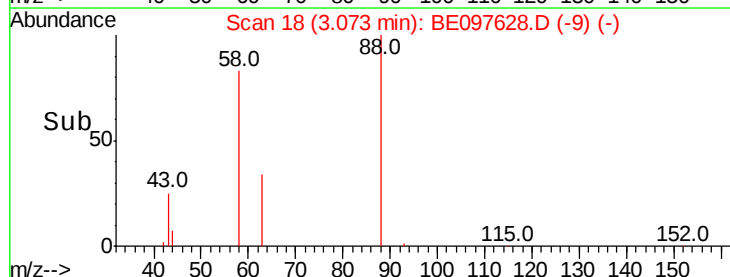
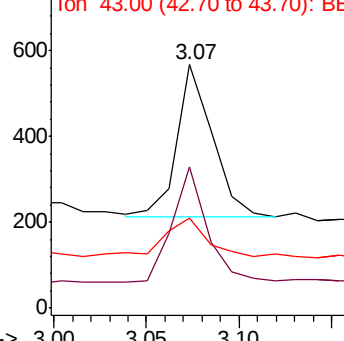
#2

1,4-Dioxane  
Concen: 0.407 ng  
RT: 3.07 min Scan# 18  
Delta R.T. 0.00 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

Tgt Ion: 88 Resp: 472  
Ion Ratio Lower Upper  
88 100  
58 75.0 63.2 94.8  
43 33.1 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: 0.267 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

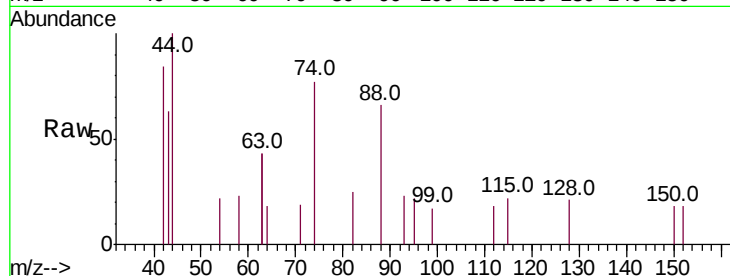
Tot Ion: 42 Resp: 259

Ion Ratio Lower Upper

42 100

74 142.5 96.0 144.0

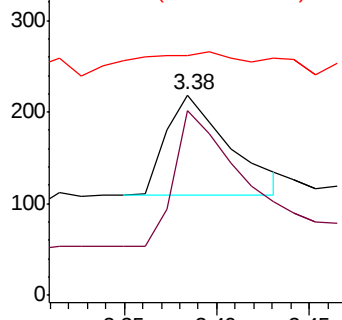
44 41.3 12.0 18.0#



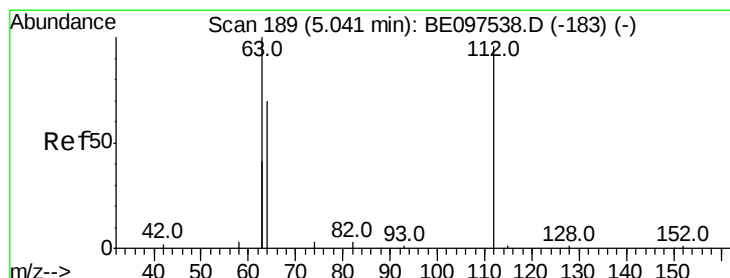
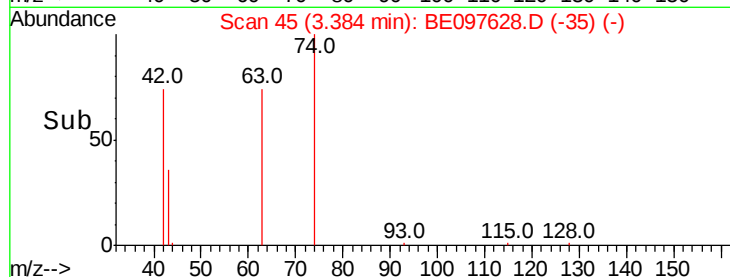
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time-->



#4

2-Fluorophenol

Concen: 0.357 ng

RT: 5.05 min Scan# 190

Delta R.T. 0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

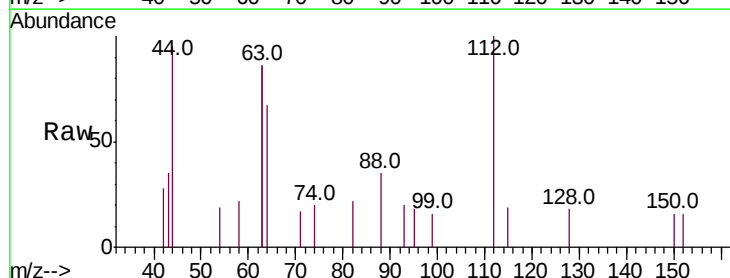
Tgt Ion: 112 Resp: 728

Ion Ratio Lower Upper

112 100

64 64.6 60.1 90.1

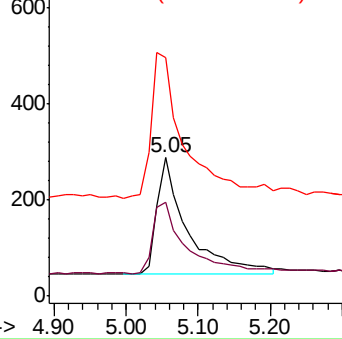
63 136.3 116.8 175.2



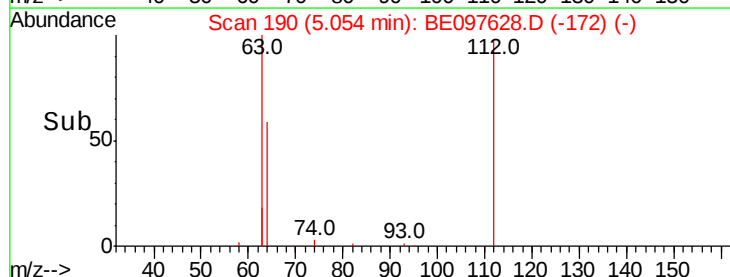
Abundance Ion 112.00 (111.70 to 112.70): E

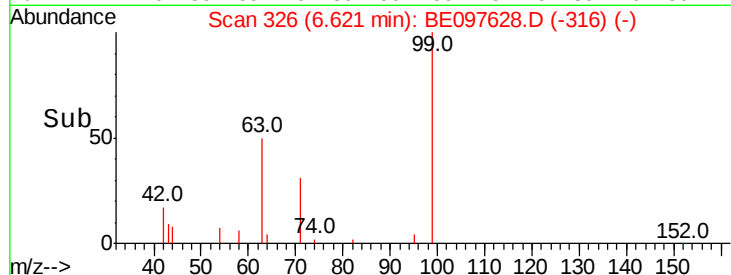
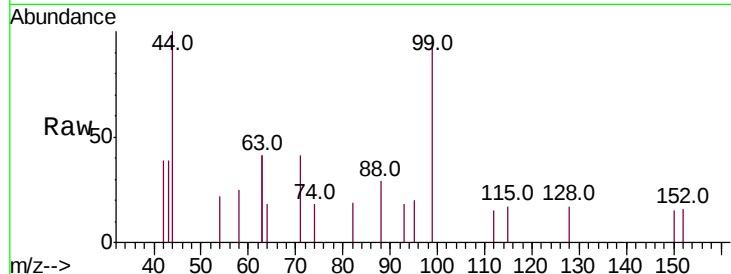
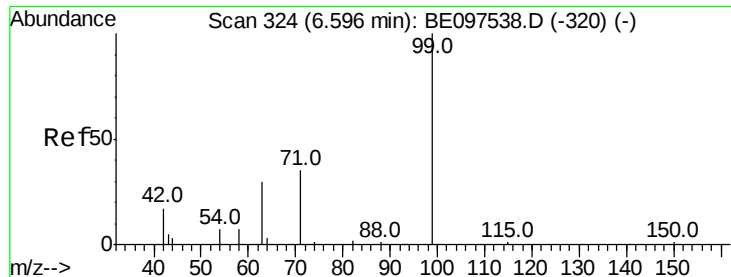
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 0.315 ng

RT: 6.62 min Scan# 326

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

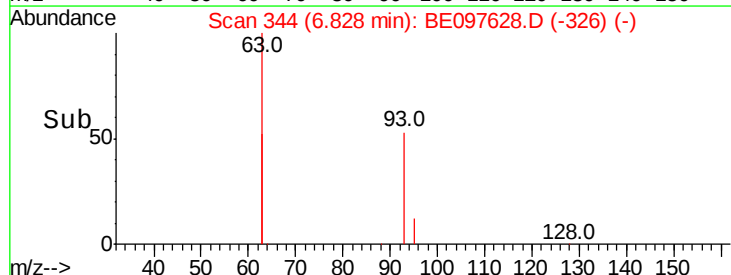
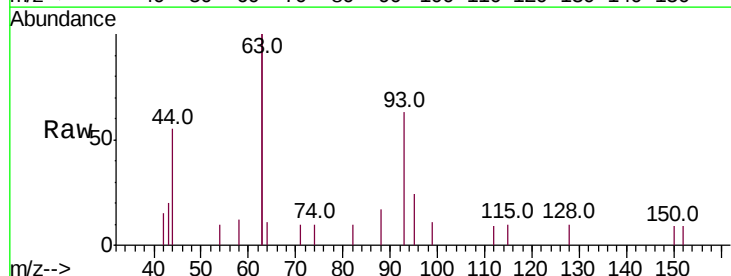
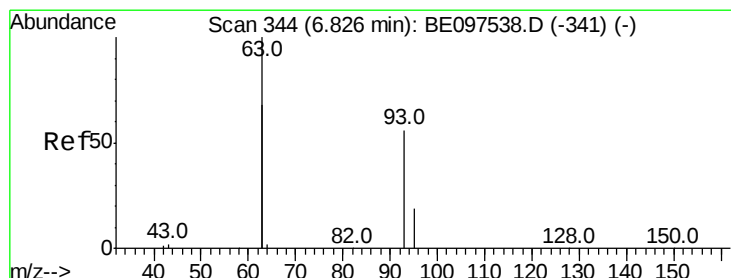
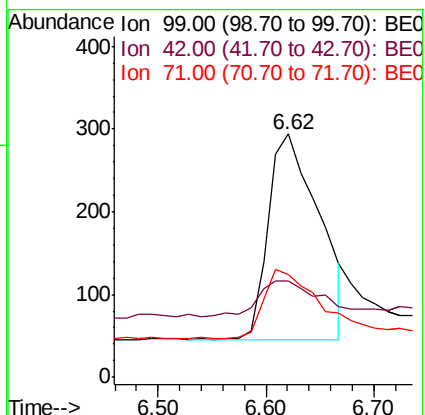
Tot Ion: 99 Resp: 821

Ion Ratio Lower Upper

99 100

42 20.1 20.2 30.2#

71 34.6 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.362 ng

RT: 6.83 min Scan# 344

Delta R.T. 0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

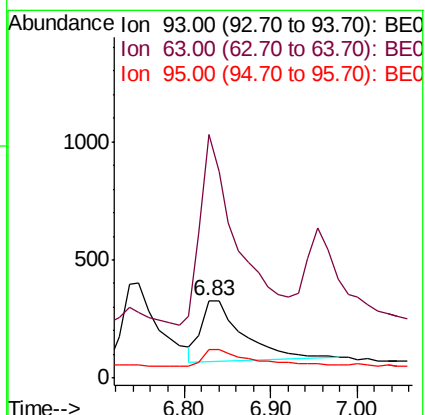
Tgt Ion: 93 Resp: 875

Ion Ratio Lower Upper

93 100

63 278.4 275.3 412.9

95 30.7 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: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 3515

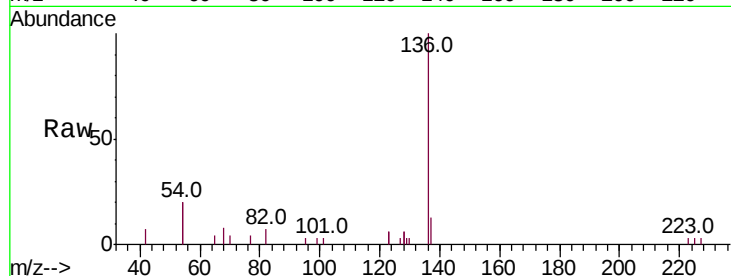
Ion Ratio Lower Upper

136 100

137 13.1 9.5 14.3

54 39.0 29.1 43.7

68 8.3 6.2 9.2

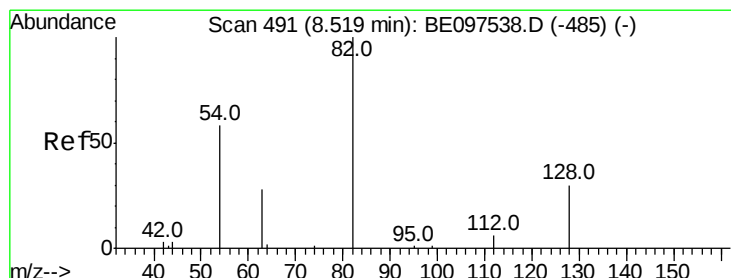
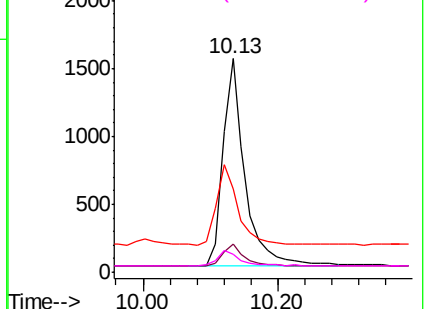
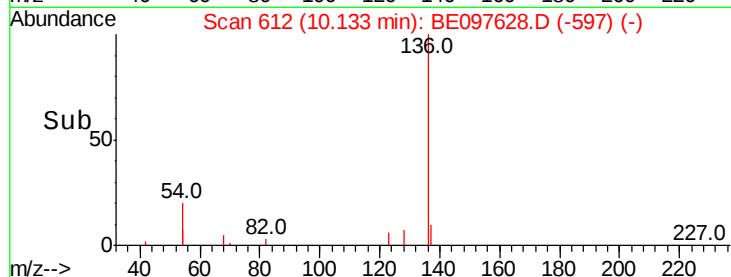


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.322 ng

RT: 8.54 min Scan# 493

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

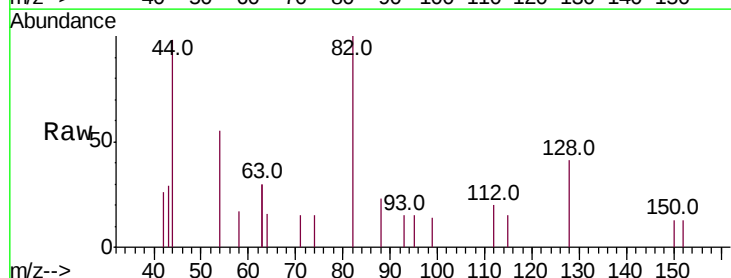
Tgt Ion: 82 Resp: 874

Ion Ratio Lower Upper

82 100

128 41.4 24.0 36.0#

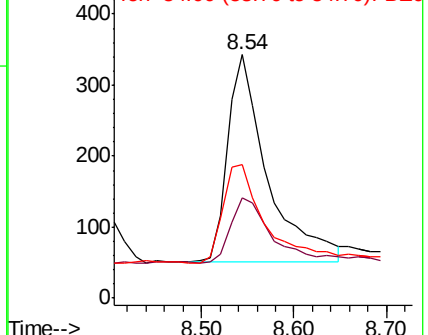
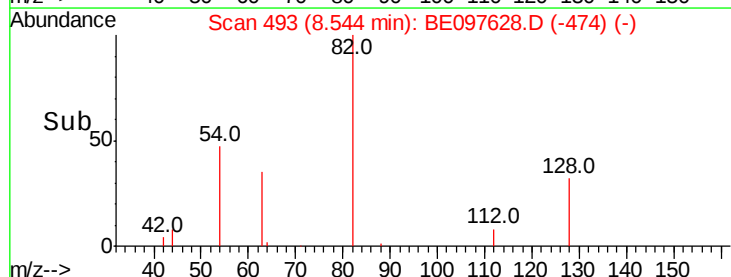
54 54.8 40.0 60.0

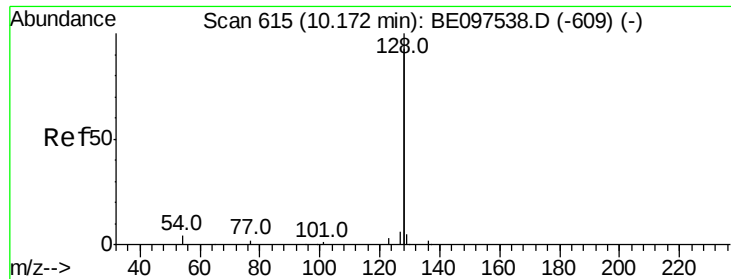


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.391 ng

RT: 10.18 min Scan# 616

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

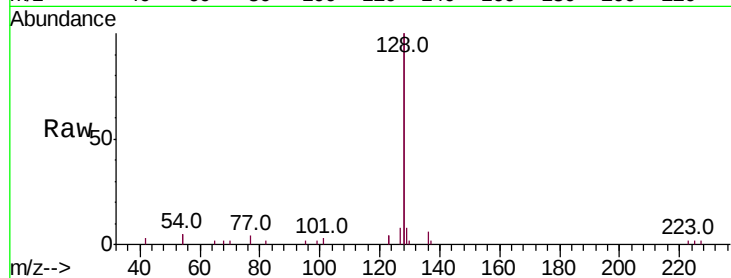
Tot Ion:128 Resp: 12373

Ion Ratio Lower Upper

128 100

129 3.8 2.6 3.8

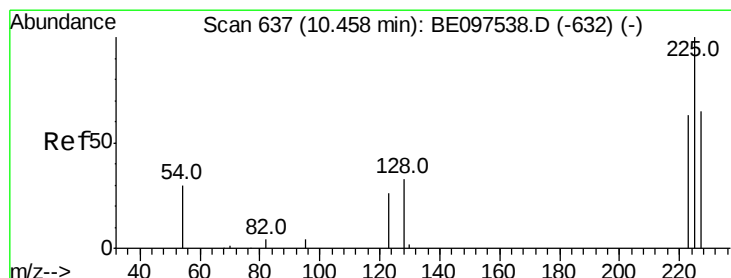
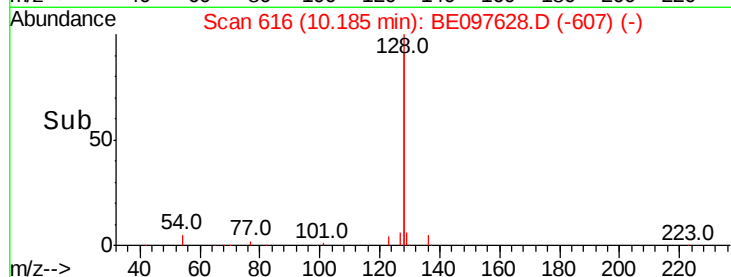
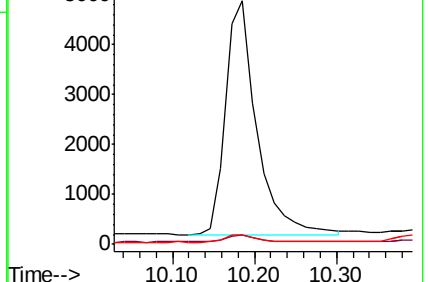
127 4.0 2.8 4.2



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: 0.396 ng

RT: 10.46 min Scan# 637

Delta R.T. -0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

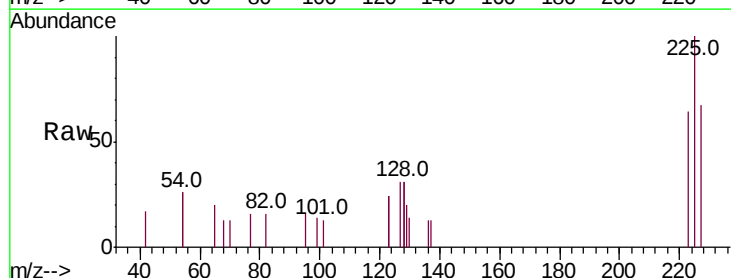
Tgt Ion:225 Resp: 578

Ion Ratio Lower Upper

225 100

223 60.0 53.0 79.6

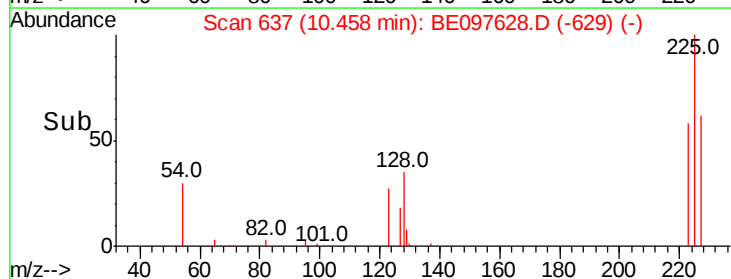
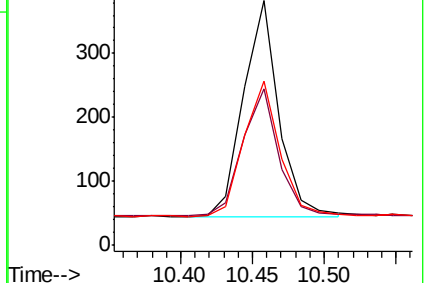
227 63.8 51.4 77.2



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: 0.407 ng

RT: 11.72 min Scan# 760

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

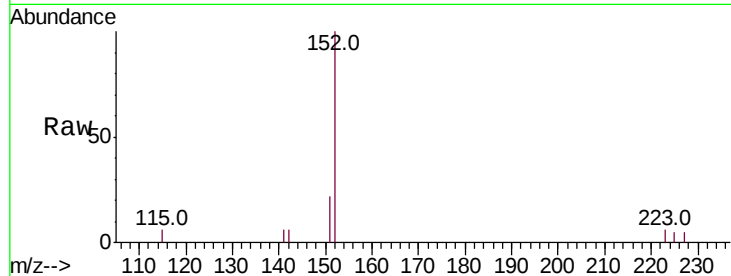
ClientSampleId :

Tot Ion:152 Resp: 1973

Ion Ratio Lower Upper

152 100

151 18.4 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

800

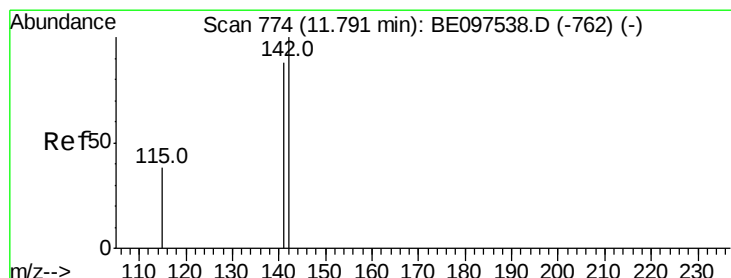
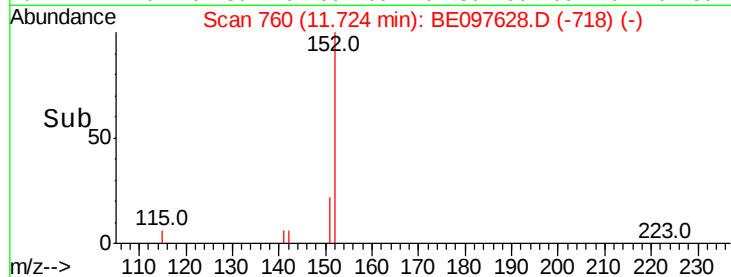
600

400

200

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.412 ng

RT: 11.80 min Scan# 776

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

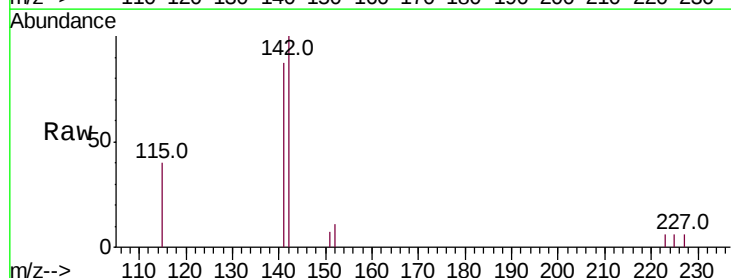
Tgt Ion:142 Resp: 2035

Ion Ratio Lower Upper

142 100

141 87.4 70.4 105.6

115 40.2 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

1000

800

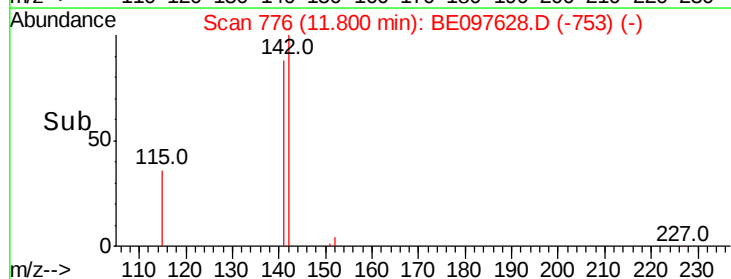
600

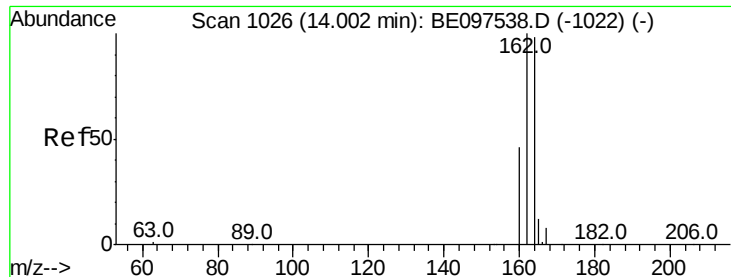
400

200

0

Time-->

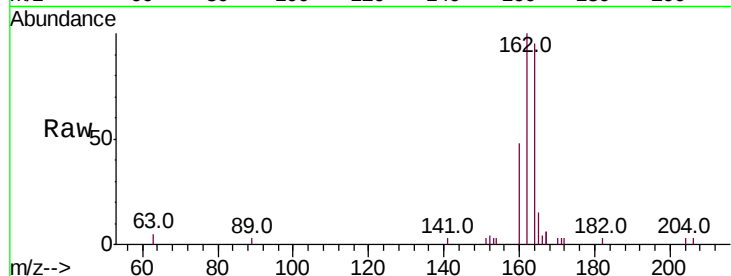




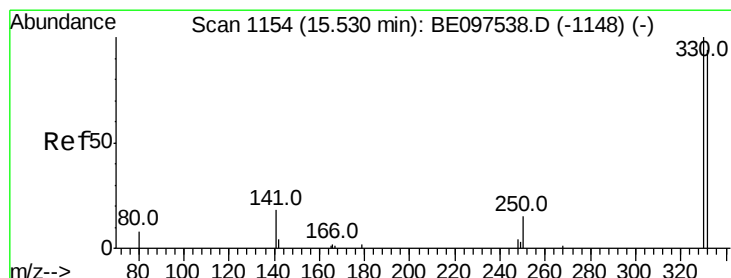
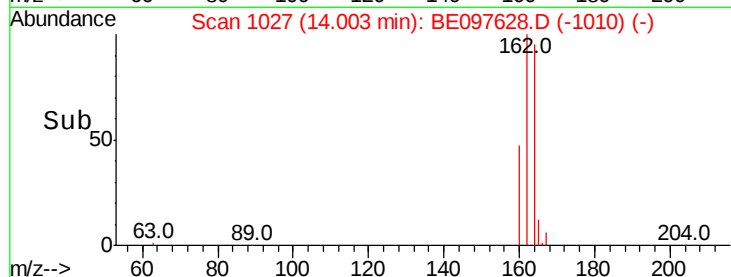
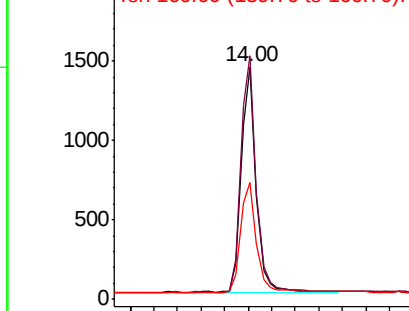
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.00 min Scan# 1027  
Delta R.T. 0.00 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 2447  
Ion Ratio Lower Upper  
164 100  
162 104.8 83.1 124.7  
160 50.5 37.1 55.7

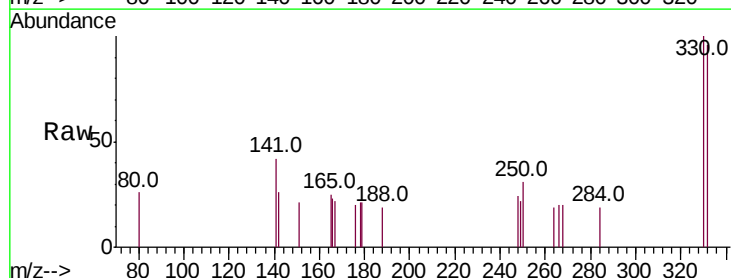


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

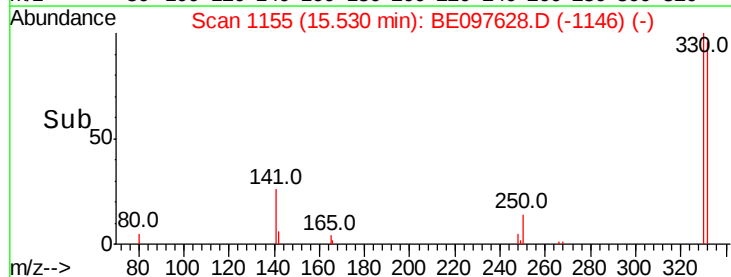
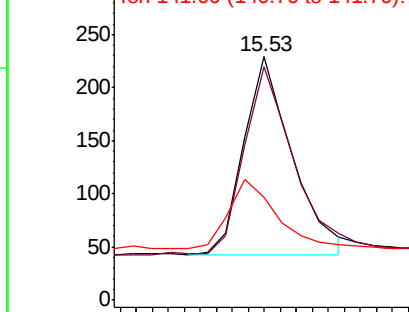


#14  
2,4,6-Tribromophenol  
Concen: 0.420 ng  
RT: 15.53 min Scan# 1155  
Delta R.T. 0.01 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

Tgt Ion:330 Resp: 390  
Ion Ratio Lower Upper  
330 100  
332 97.7 152.7 229.1#  
141 35.4 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

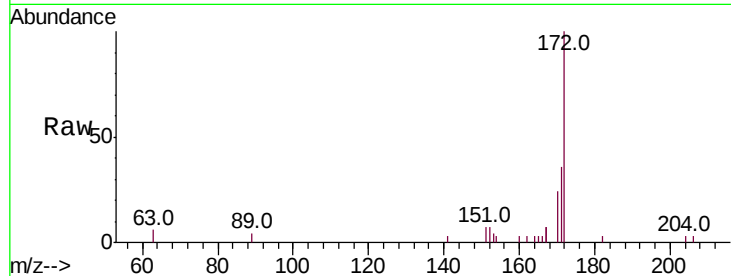




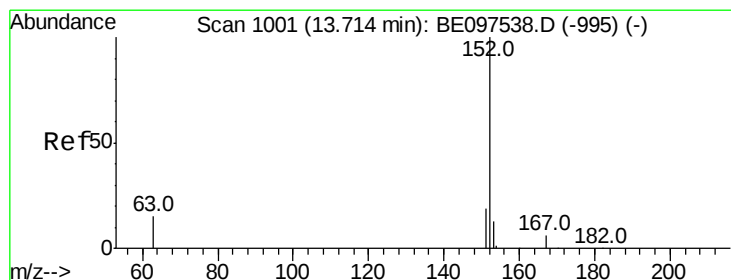
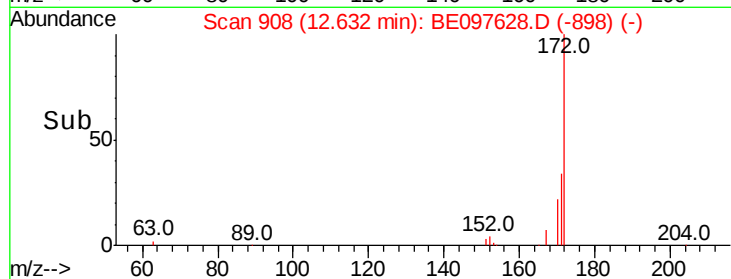
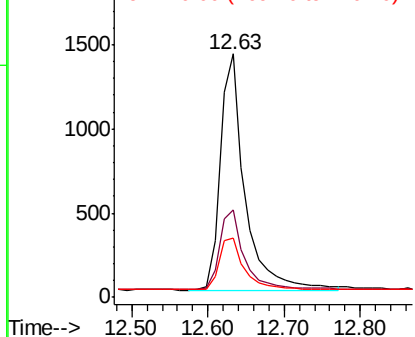
#15  
2-Fluorobiphenyl  
Concen: 0.366 ng  
RT: 12.63 min Scan# 908  
Delta R.T. 0.01 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 3162  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.9 44.9  
170 24.2 21.8 32.8

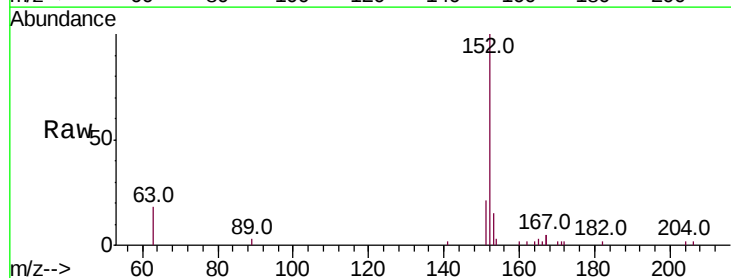


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

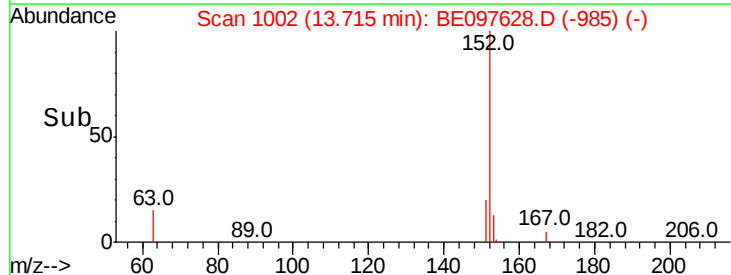
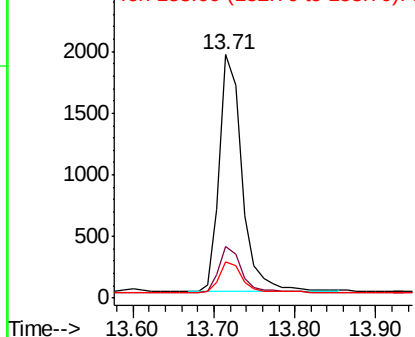


#16  
Acenaphthylene  
Concen: 0.394 ng  
RT: 13.71 min Scan# 1002  
Delta R.T. 0.00 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

Tgt Ion:152 Resp: 3808  
Ion Ratio Lower Upper  
152 100  
151 19.6 15.7 23.5  
153 13.4 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: 0.401 ng

RT: 14.06 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

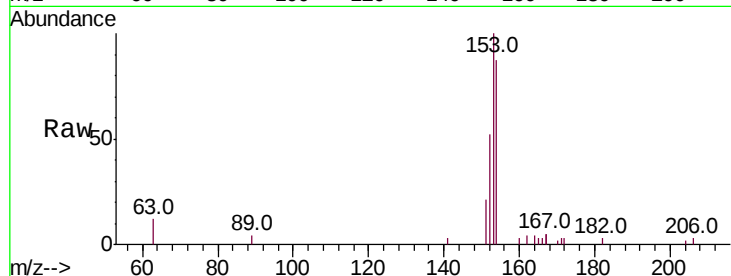
Tot Ion:154 Resp: 2599

Ion Ratio Lower Upper

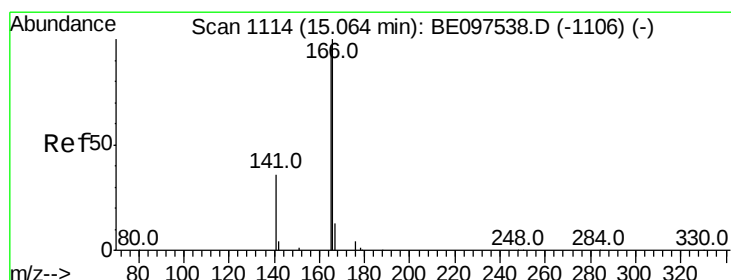
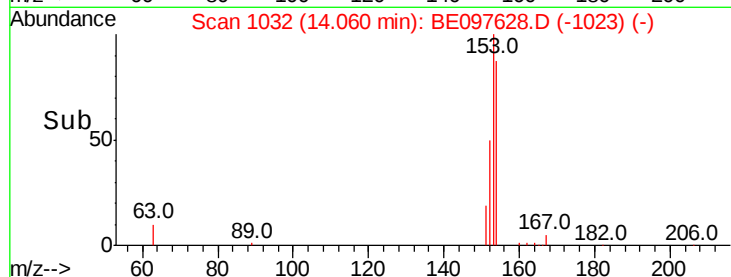
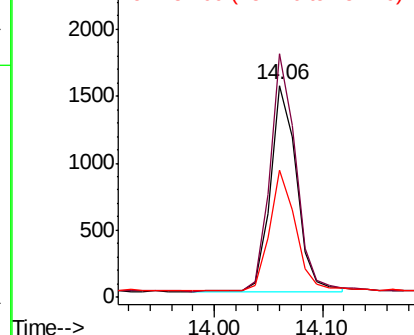
154 100

153 113.4 89.2 133.8

152 57.2 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: 0.421 ng

RT: 15.06 min Scan# 1115

Delta R.T. -0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

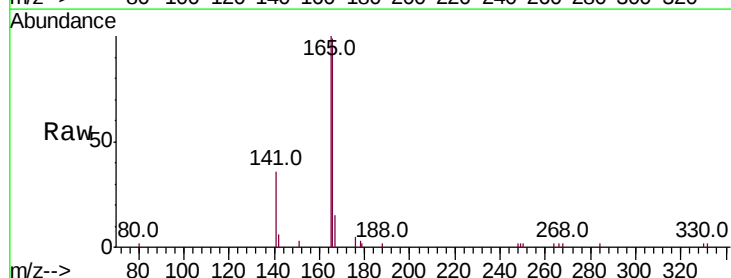
Tgt Ion:166 Resp: 3563

Ion Ratio Lower Upper

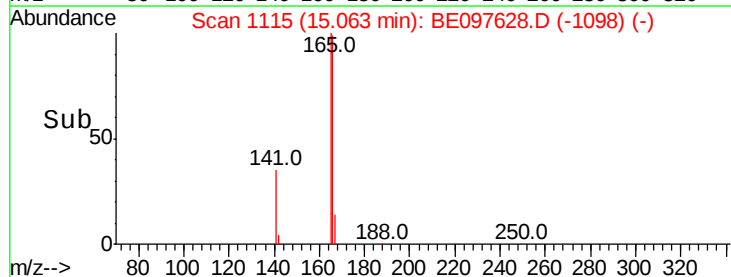
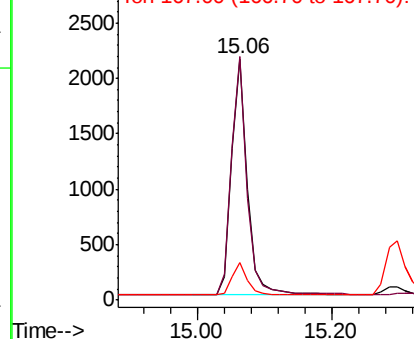
166 100

165 99.7 77.8 116.6

167 13.9 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: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampled :

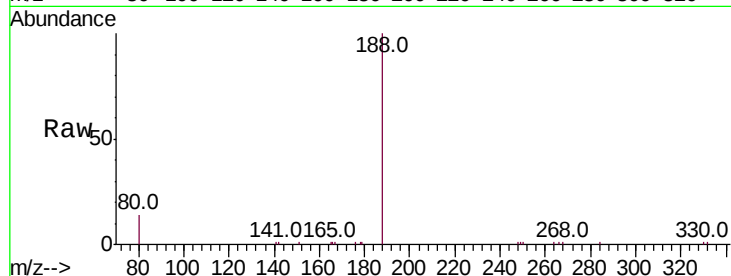
Tot Ion:188 Resp: 7696

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

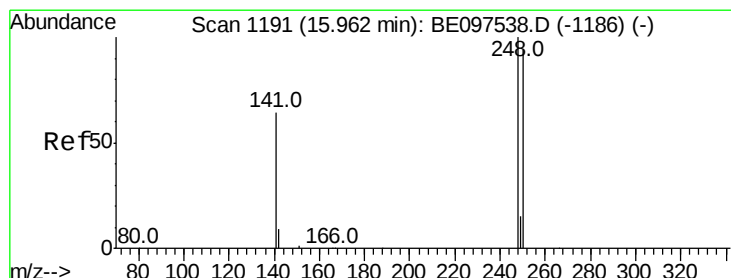
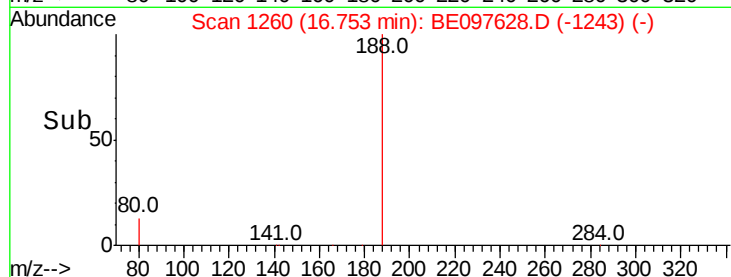
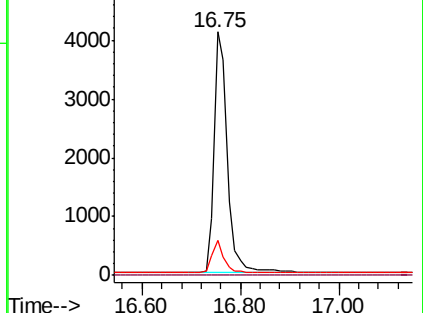
80 14.2 3.6 5.4#



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: 0.389 ng

RT: 15.96 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

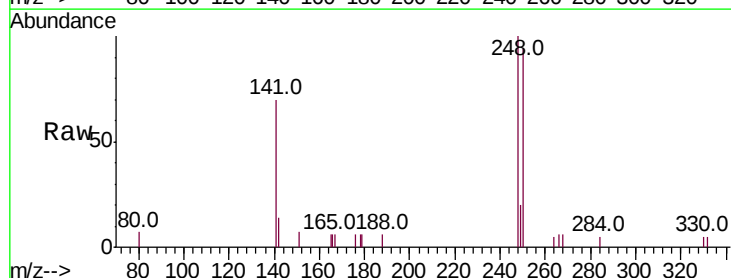
Tgt Ion:248 Resp: 1348

Ion Ratio Lower Upper

248 100

250 94.4 62.7 94.1#

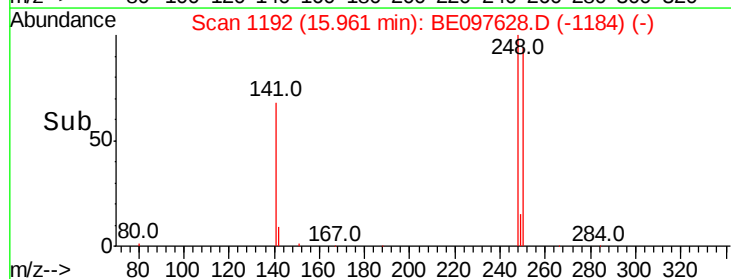
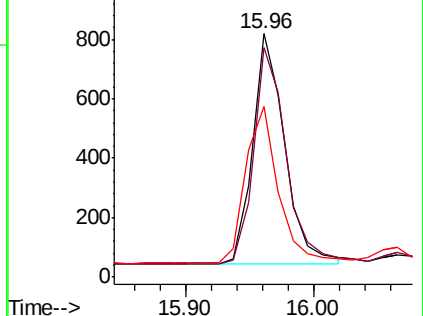
141 70.1 48.2 72.2



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: 0.405 ng

RT: 16.07 min Scan# 1201

Delta R.T. -0.00 min

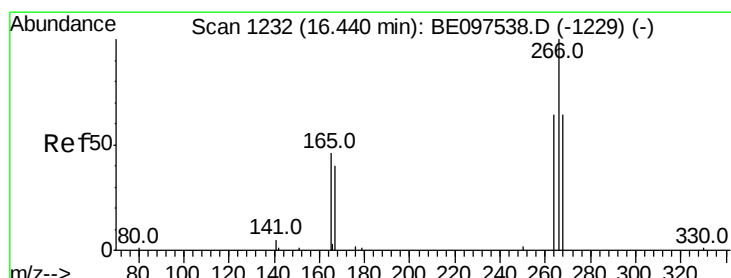
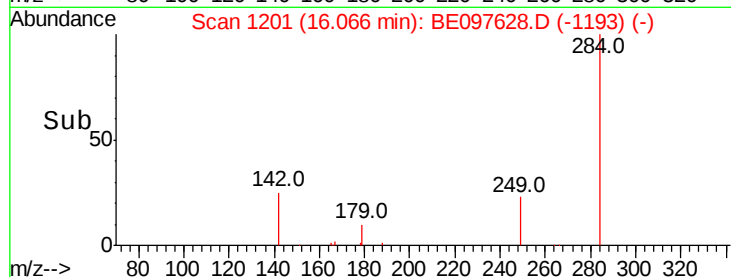
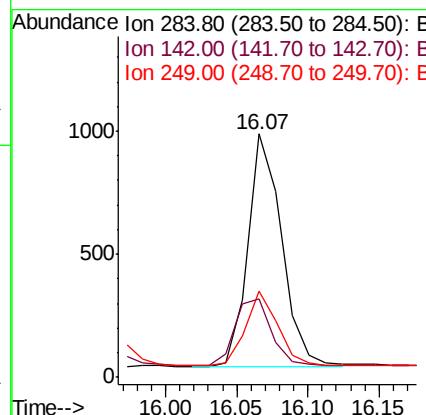
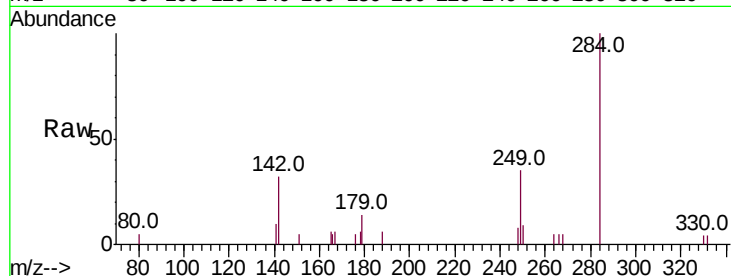
Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:284 Resp: 1545

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 284 | 100   |       |       |
| 142 | 31.1  | 22.1  | 33.1  |
| 249 | 30.4  | 34.8  | 52.2# |



#22

Pentachlorophenol

Concen: 0.295 ng

RT: 16.45 min Scan# 1234

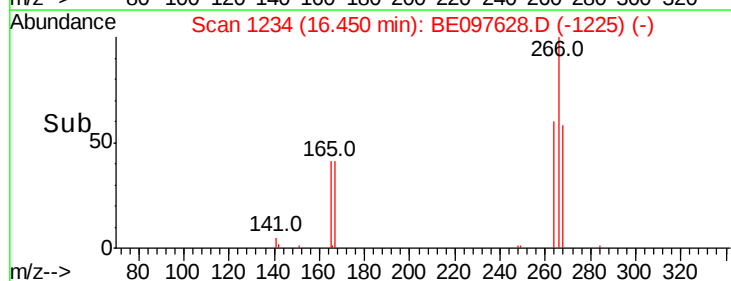
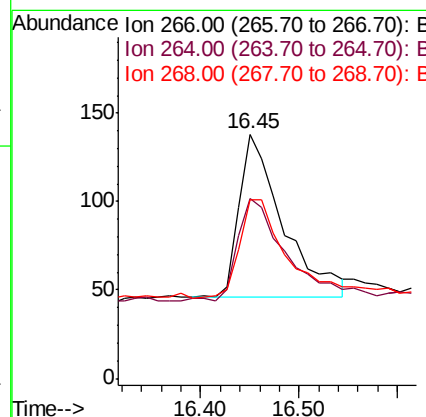
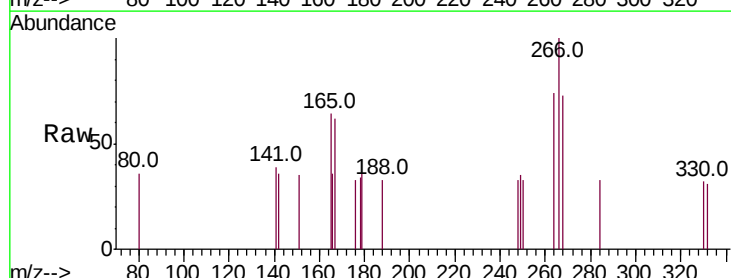
Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Tgt Ion:266 Resp: 283

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 266 | 100   |       |        |
| 264 | 73.9  | 72.5  | 108.7  |
| 268 | 73.2  | 73.8  | 110.6# |





#23

Phenanthrene

Concen: 0.385 ng

RT: 16.80 min Scan# 1264

Delta R.T. -0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampled :

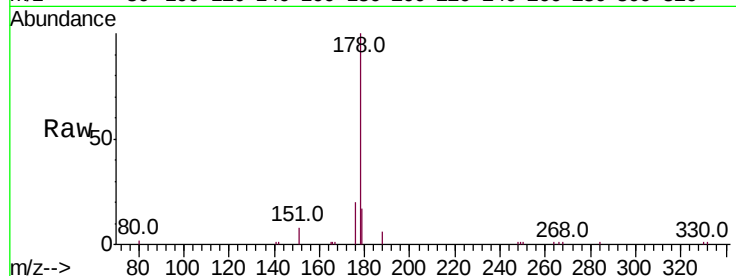
Tot Ion:178 Resp: 7043

Ion Ratio Lower Upper

178 100

176 19.3 15.1 22.7

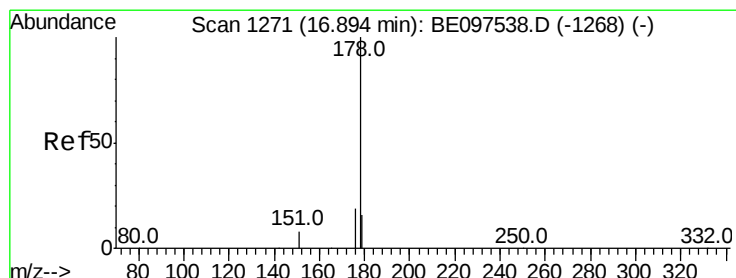
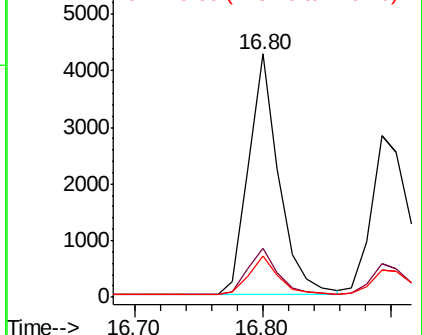
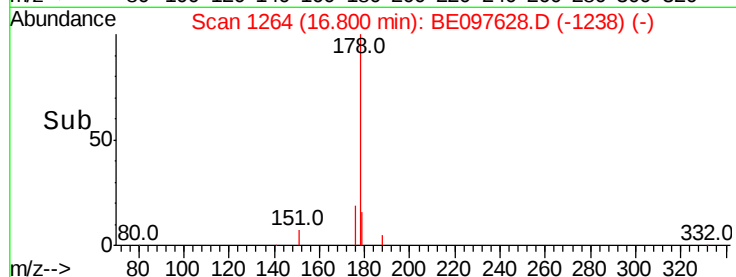
179 15.7 11.8 17.6



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: 0.360 ng

RT: 16.89 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

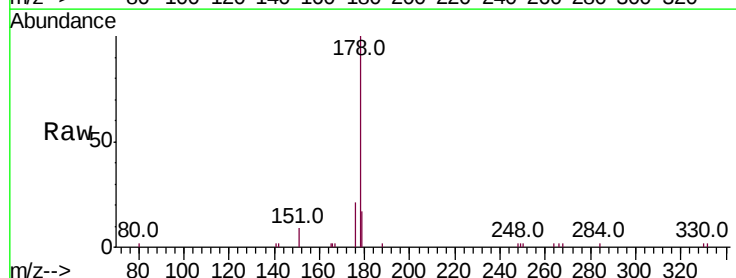
Tgt Ion:178 Resp: 5807

Ion Ratio Lower Upper

178 100

176 18.6 12.8 19.2

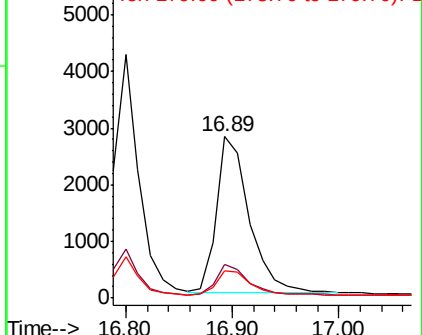
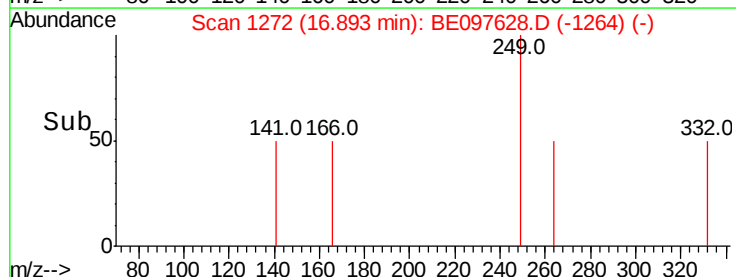
179 15.4 13.0 19.6



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

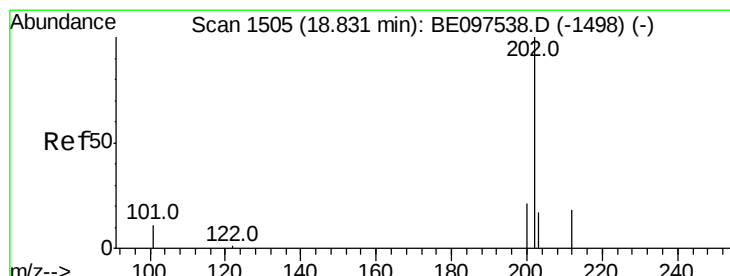
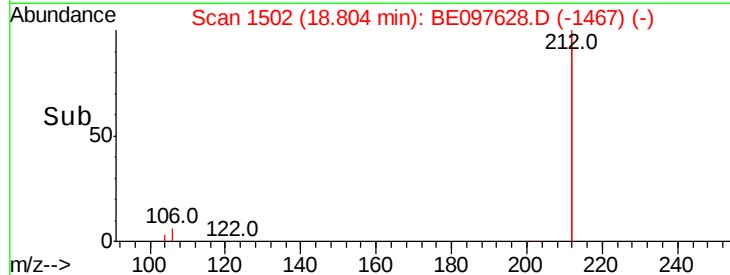
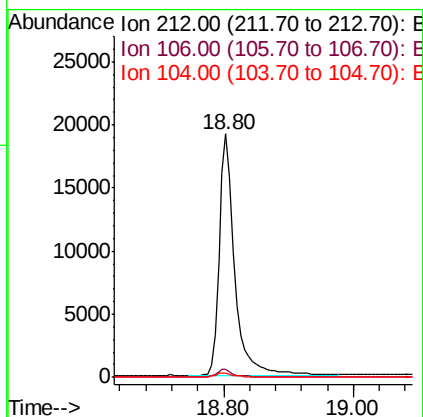
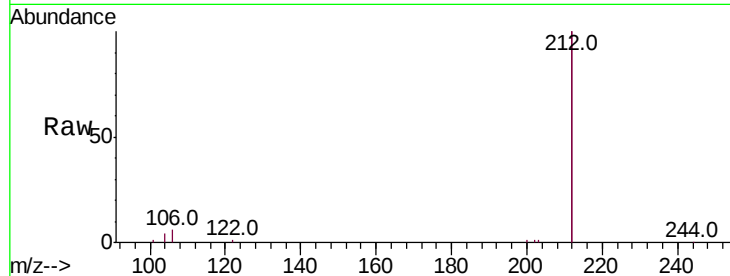




#25  
Fluoranthene-d10  
Concen: 0.324 ng  
RT: 18.80 min Scan# 1502  
Delta R.T. 0.00 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

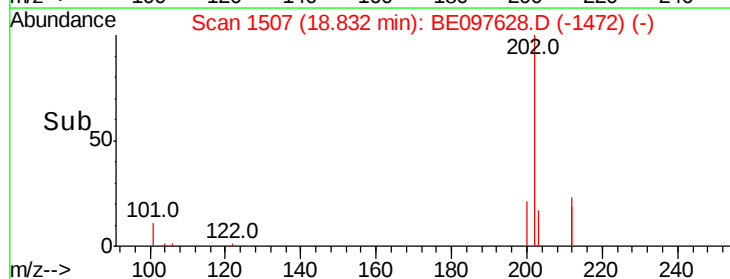
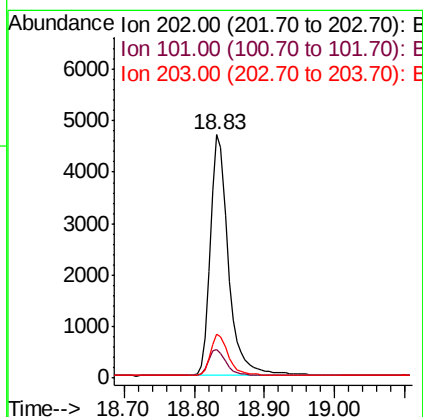
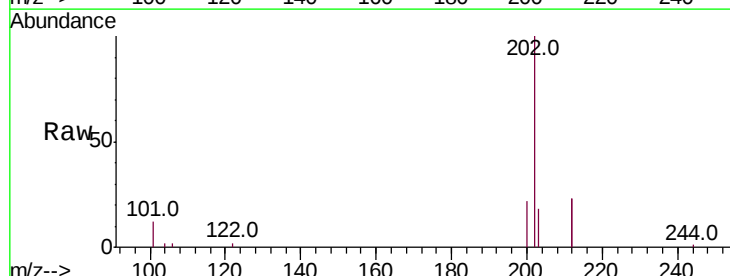
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:212 Resp: 31890  
Ion Ratio Lower Upper  
212 100  
106 3.2 2.8 4.2  
104 1.8 1.6 2.4



#26  
Fluoranthene  
Concen: 0.331 ng  
RT: 18.83 min Scan# 1507  
Delta R.T. 0.00 min  
Lab File: BE097628.D  
Acq: 22 Sep 2018 1:56

Tgt Ion:202 Resp: 8385  
Ion Ratio Lower Upper  
202 100  
101 11.6 9.8 14.8  
203 17.1 13.7 20.5

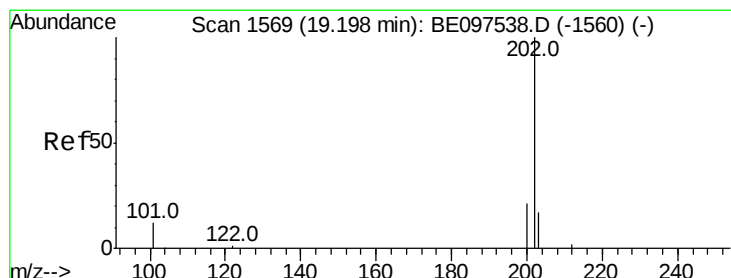
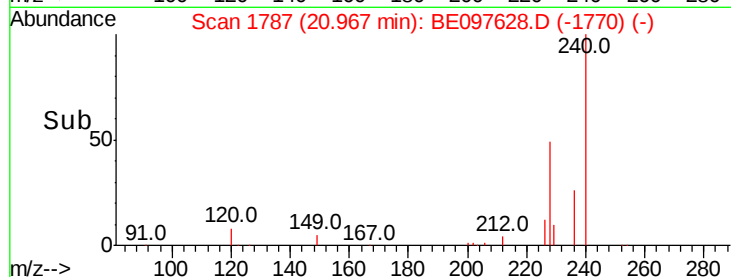
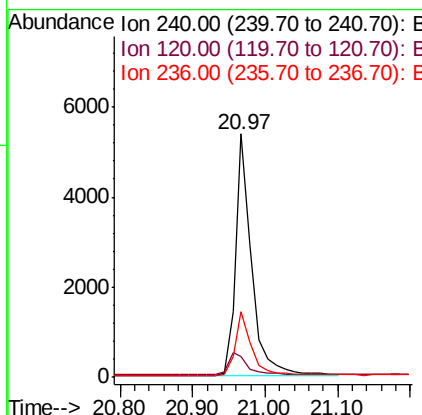
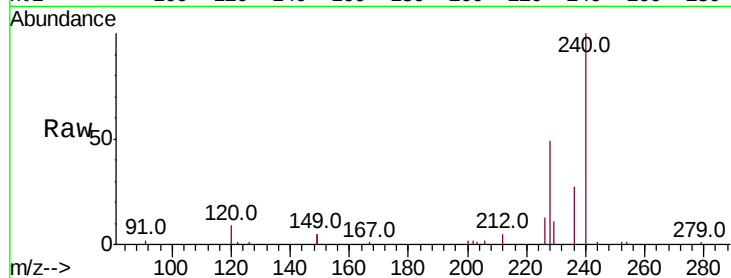




#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 20.97 min Scan# 1787  
 Delta R.T. 0.00 min  
 Lab File: BE097628.D  
 Acq: 22 Sep 2018 1:56

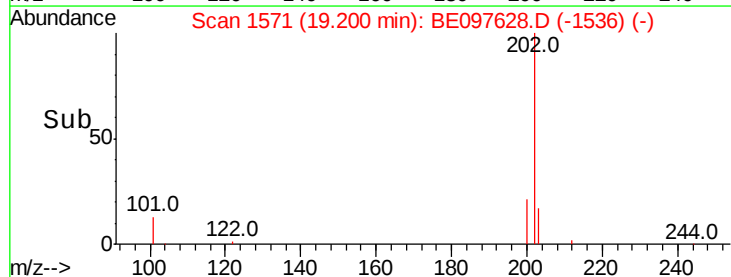
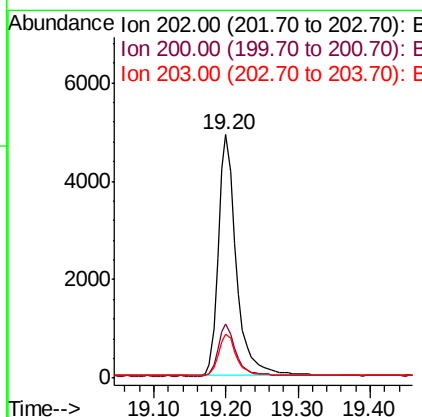
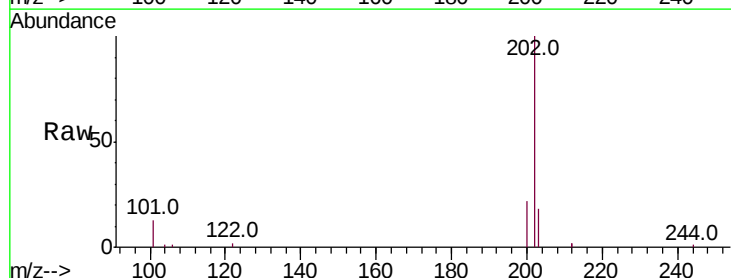
Instrument :  
 BNA\_E  
 ClientSampleId :

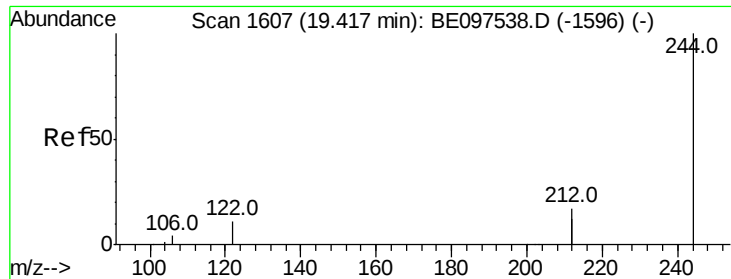
Tot Ion:240 Resp: 8324  
 Ion Ratio Lower Upper  
 240 100  
 120 8.7 5.5 8.3#  
 236 27.1 20.7 31.1



#28  
 Pyrene  
 Concen: 0.447 ng  
 RT: 19.20 min Scan# 1571  
 Delta R.T. 0.00 min  
 Lab File: BE097628.D  
 Acq: 22 Sep 2018 1:56

Tgt Ion:202 Resp: 8472  
 Ion Ratio Lower Upper  
 202 100  
 200 21.1 16.6 25.0  
 203 17.4 13.8 20.8





#29

Terphenyl-d14

Concen: 0.413 ng

RT: 19.42 min Scan# 1610

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampled :

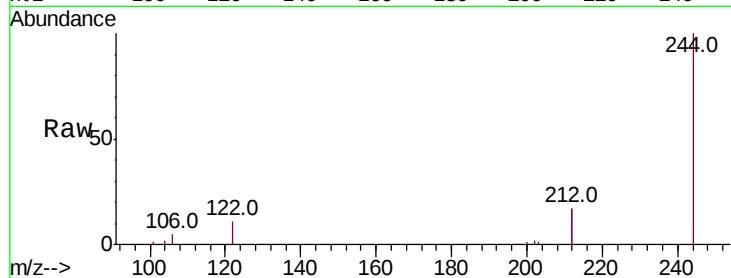
Tot Ion:244 Resp: 6288

Ion Ratio Lower Upper

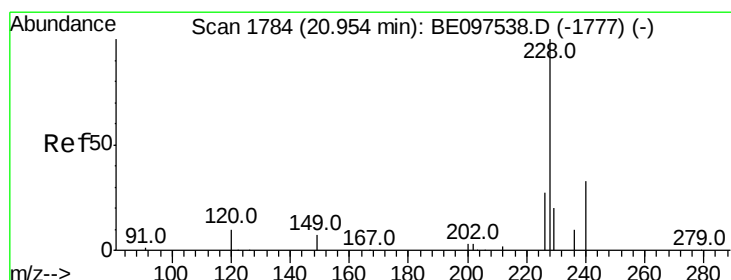
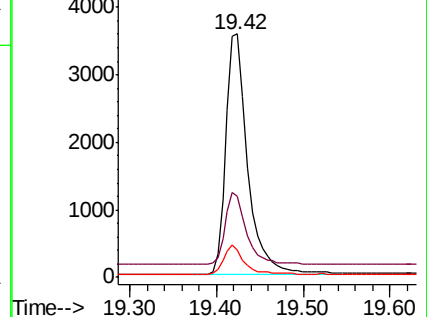
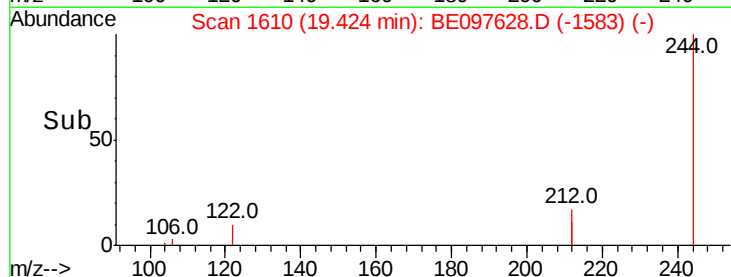
244 100

212 33.5 25.4 38.0

122 11.1 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: 0.343 ng

RT: 20.96 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

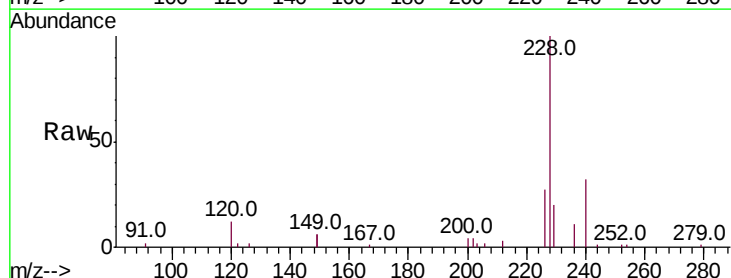
Tgt Ion:228 Resp: 7193

Ion Ratio Lower Upper

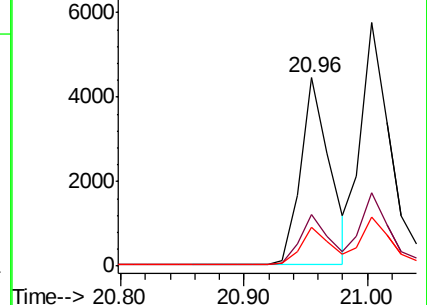
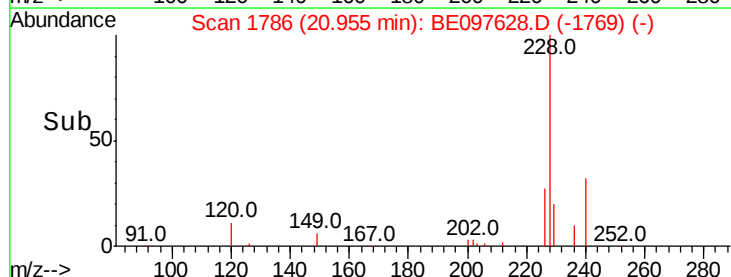
228 100

226 27.4 24.0 36.0

229 20.4 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



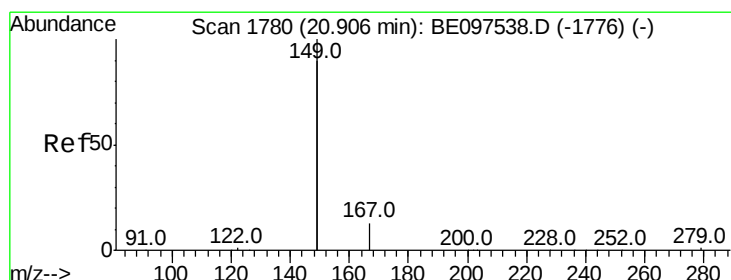
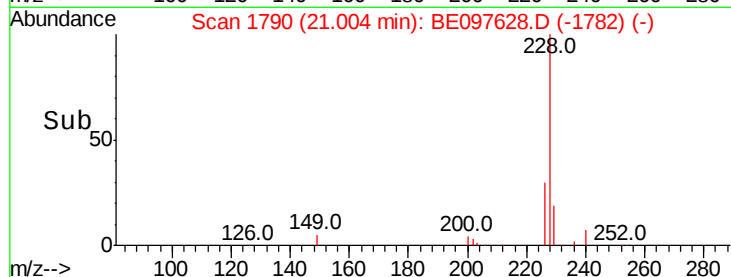
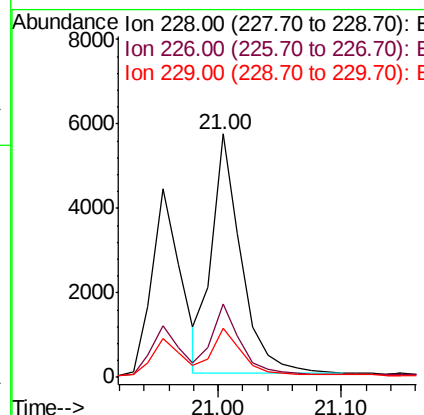
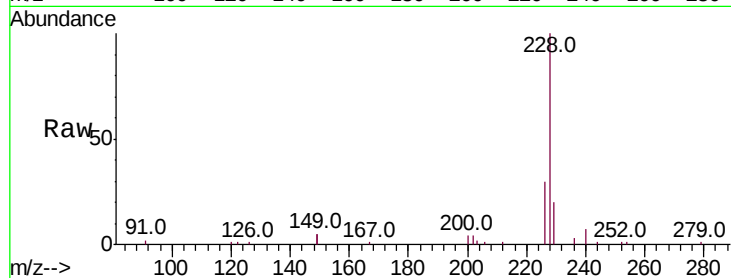


#31  
 Chrysene  
 Concen: 0.413 ng  
 RT: 21.00 min Scan# 1790  
 Delta R.T. 0.00 min  
 Lab File: BE097628.D  
 Acq: 22 Sep 2018 1:56

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:228 Resp: 9292  

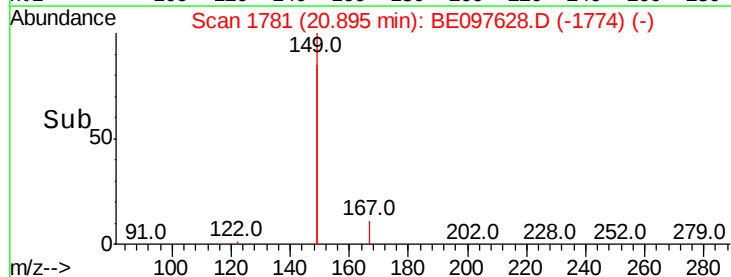
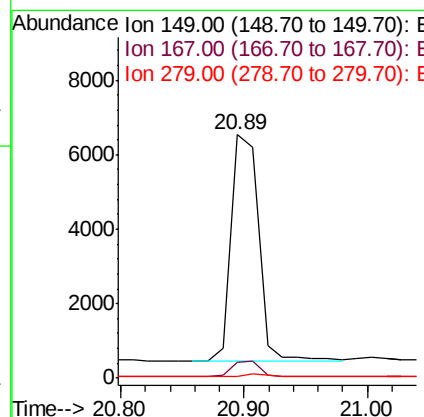
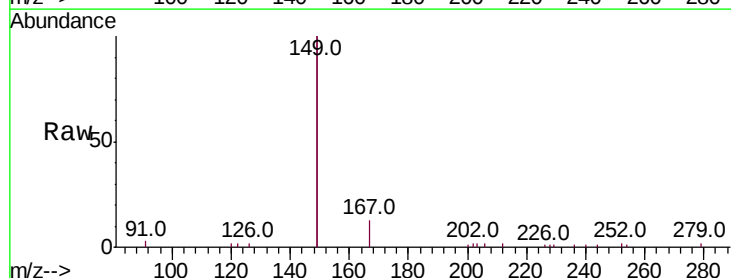
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.3  | 24.0  | 36.0  |
| 229 | 20.1  | 16.0  | 24.0  |



#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.280 ng  
 RT: 20.89 min Scan# 1781  
 Delta R.T. -0.01 min  
 Lab File: BE097628.D  
 Acq: 22 Sep 2018 1:56

Tgt Ion:149 Resp: 9476  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.3   | 5.4   | 8.0   |
| 279 | 1.1   | 0.7   | 1.1#  |





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.390 ng

RT: 25.51 min Scan# 2845

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

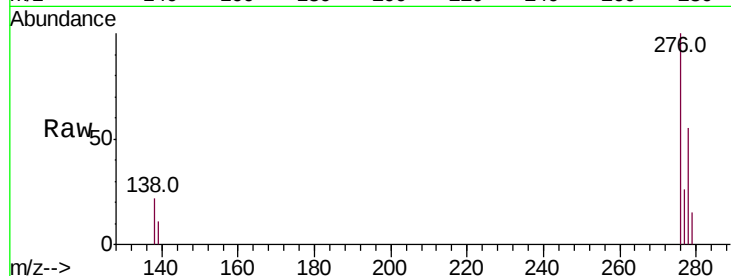
Tot Ion:276 Resp: 10567

Ion Ratio Lower Upper

276 100

138 22.1 22.5 33.7#

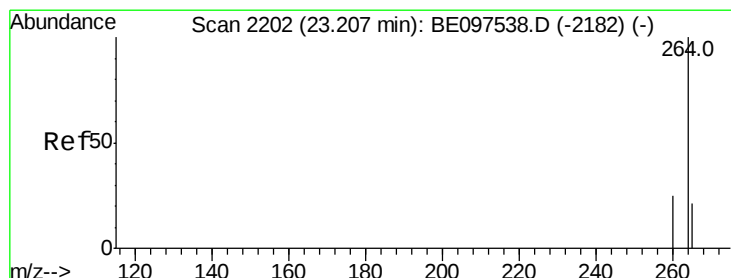
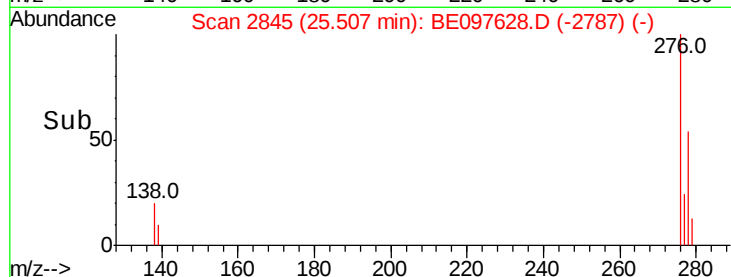
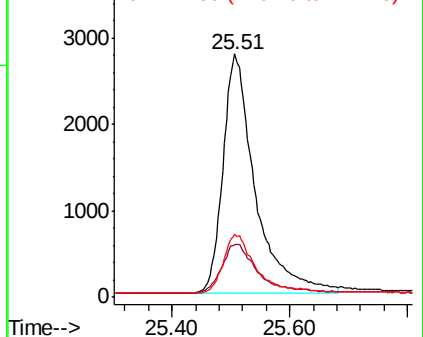
277 23.9 19.9 29.9



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: BE097628.D

Acq: 22 Sep 2018 1:56

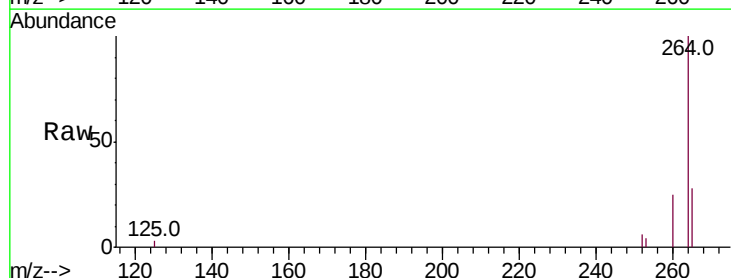
Tgt Ion:264 Resp: 8186

Ion Ratio Lower Upper

264 100

260 25.5 20.5 30.7

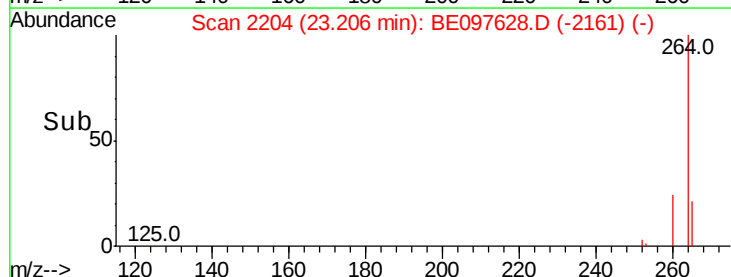
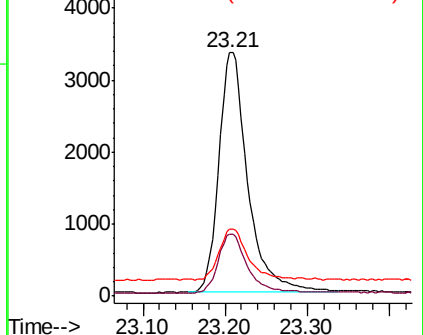
265 27.7 22.8 34.2



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: 0.361 ng

RT: 22.53 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

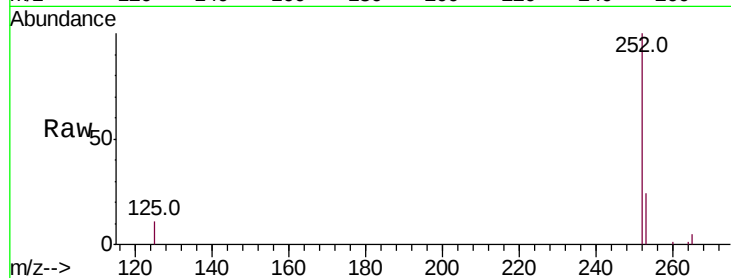
Tot Ion:252 Resp: 7577

Ion Ratio Lower Upper

252 100

253 24.0 20.0 30.0

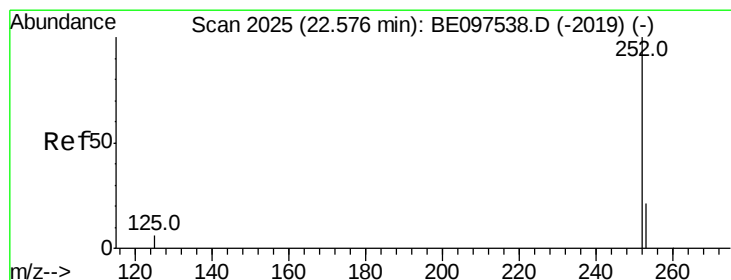
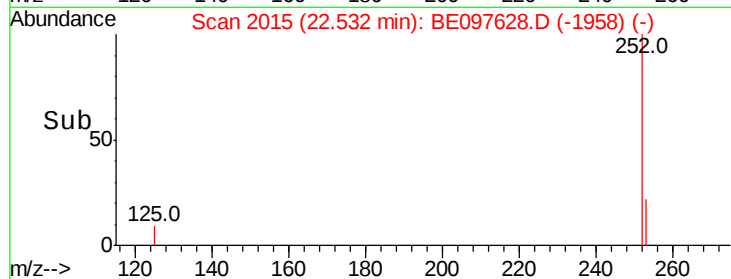
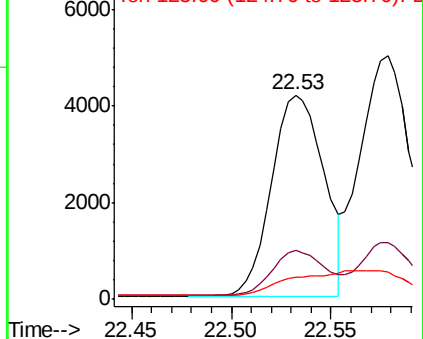
125 10.9 16.0 24.0#



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: 0.412 ng

RT: 22.58 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

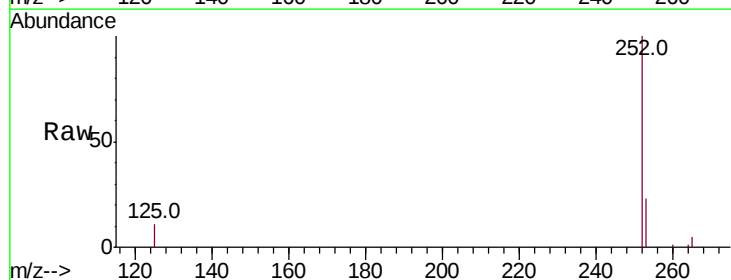
Tgt Ion:252 Resp: 9871

Ion Ratio Lower Upper

252 100

253 23.4 16.0 24.0

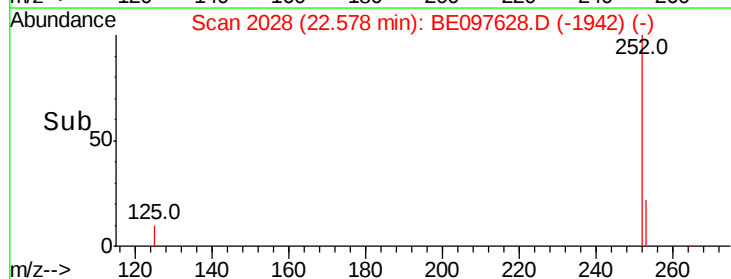
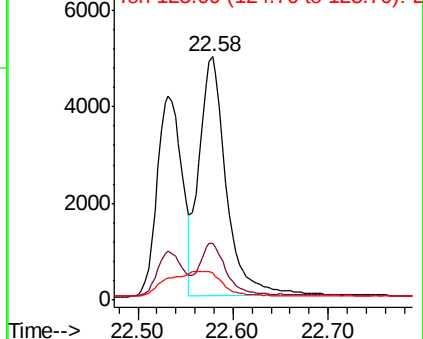
125 11.2 8.0 12.0

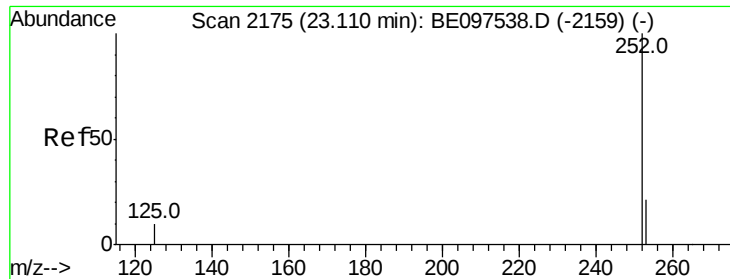


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.11 min Scan# 2178

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

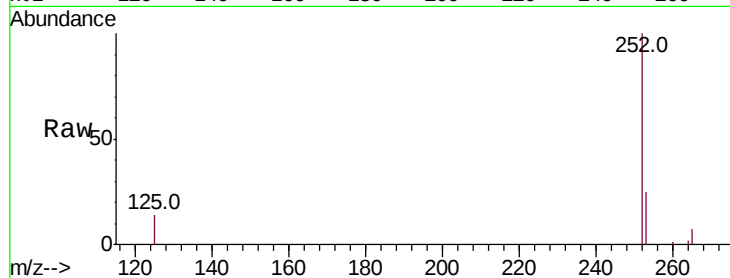
Tot Ion:252 Resp: 7948

Ion Ratio Lower Upper

252 100

253 25.0 16.0 24.0#

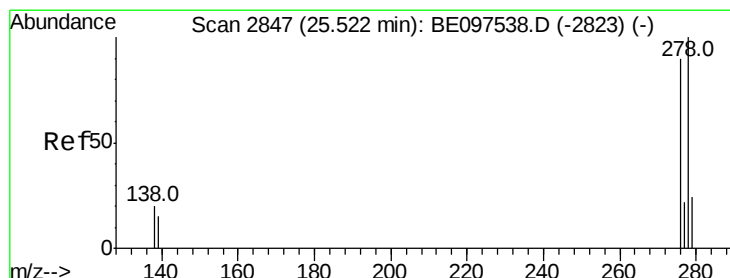
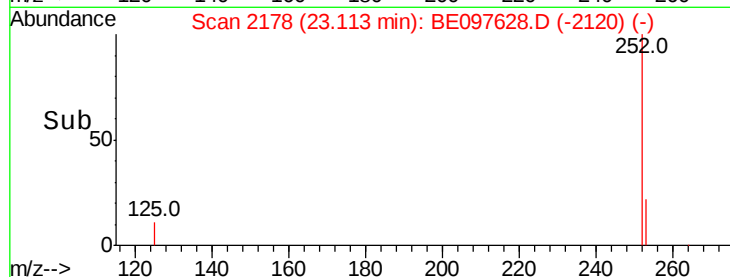
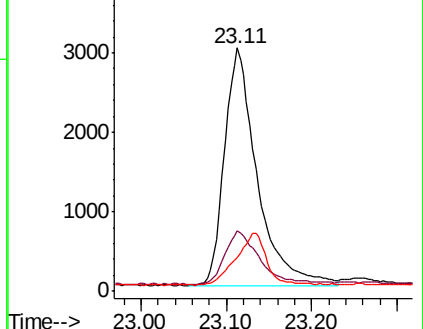
125 13.8 12.0 18.0



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: 0.389 ng

RT: 25.52 min Scan# 2849

Delta R.T. 0.00 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

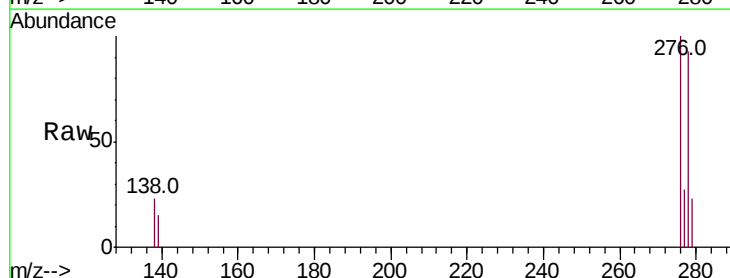
Tgt Ion:278 Resp: 8563

Ion Ratio Lower Upper

278 100

139 16.1 16.0 24.0

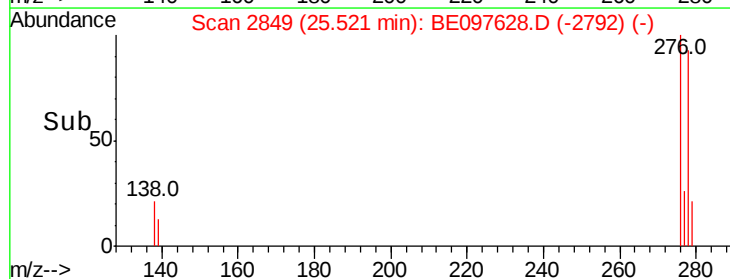
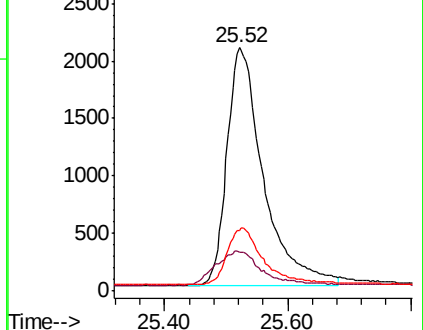
279 25.1 20.0 30.0



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: 0.390 ng

RT: 26.21 min Scan# 3042

Delta R.T. 0.01 min

Lab File: BE097628.D

Acq: 22 Sep 2018 1:56

Instrument :

BNA\_E

ClientSampleId :

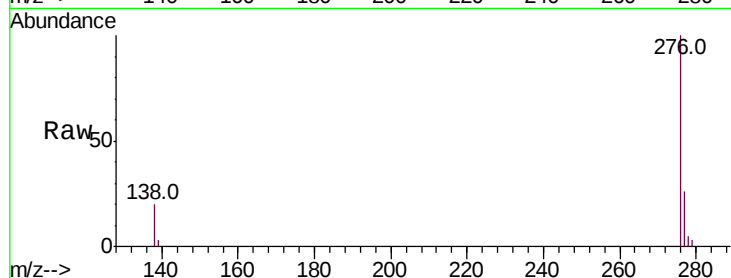
Tot Ion: 276 Resp: 8350

Ion Ratio Lower Upper

276 100

277 25.5 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

