

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020818\  
 Data File : BE095560.D  
 Acq On : 8 Feb 2018 9:43  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Feb 09 00:37:43 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE012618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 08 09:02:32 2018  
 Response via : Initial Calibration

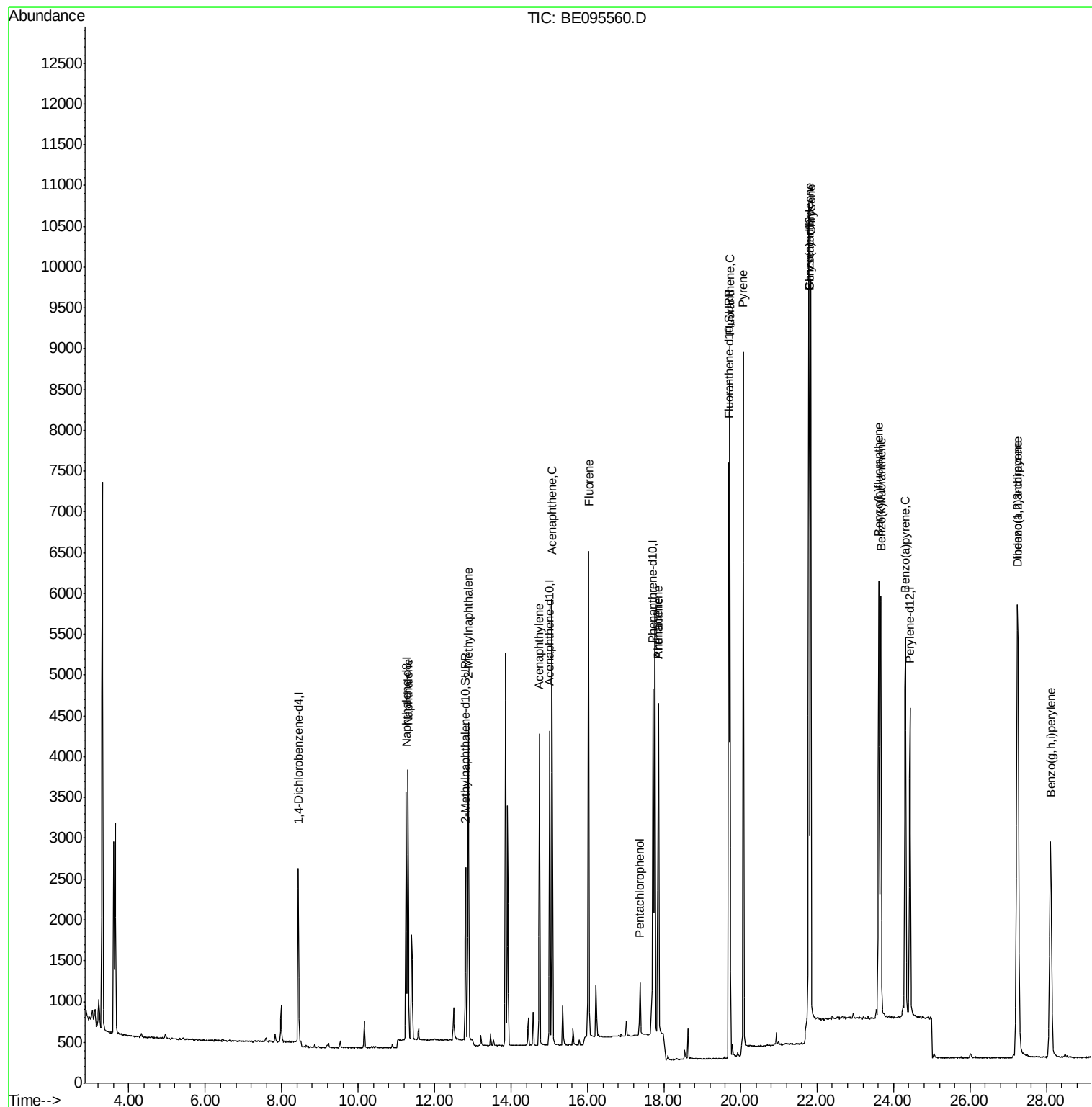
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.43  | 152  | 1586     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.25 | 136  | 4022     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 15.01 | 164  | 2218     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.71 | 188  | 5920     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.80 | 240  | 6578     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.43 | 264  | 5886     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.81 | 152  | 2651     | 0.40   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.69 | 212  | 8126     | 0.36   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.30 | 128  | 4568     | 0.406  | ng/ul# | 90       |
| 5) 2-Methylnaphthalene      | 12.88 | 142  | 3067     | 0.408  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.74 | 152  | 4376     | 0.410  | ng/ul  | 97       |
| 8) Acenaphthene             | 15.07 | 153  | 3362     | 0.406  | ng/ul  | 92       |
| 9) Fluorene                 | 16.03 | 166  | 4113     | 0.482  | ng/ul# | 92       |
| 11) Pentachlorophenol       | 17.36 | 266  | 438      | 0.382  | ng/ul  | 94       |
| 12) Phenanthrene            | 17.85 | 178  | 6102     | 0.306  | ng/ul  | 95       |
| 13) Anthracene              | 17.85 | 178  | 6122     | 0.336  | ng/ul  | 94       |
| 15) Fluoranthene            | 19.72 | 202  | 9218     | 0.358  | ng/ul  | 84       |
| 17) Pyrene                  | 20.07 | 202  | 10153    | 0.460  | ng/ul# | 78       |
| 18) Benzo(a)anthracene      | 21.78 | 228  | 8831     | 0.429  | ng/ul# | 84       |
| 19) Chrysene                | 21.84 | 228  | 8558     | 0.401  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.62 | 252  | 8443     | 0.407  | ng/ul  | 84       |
| 22) Benzo(k)fluoranthene    | 23.67 | 252  | 7460     | 0.393  | ng/ul# | 87       |
| 23) Benzo(a)pyrene          | 24.31 | 252  | 7517     | 0.405  | ng/ul# | 80       |
| 24) Indeno(1,2,3-cd)pyrene  | 27.24 | 276  | 8382     | 0.412  | ng/ul# | 78       |
| 25) Dibenzo(a,h)anthracene  | 27.26 | 278  | 6827     | 0.410  | ng/ul# | 89       |
| 26) Benzo(g,h,i)perylene    | 28.11 | 276  | 6999     | 0.407  | ng/ul  | 95       |

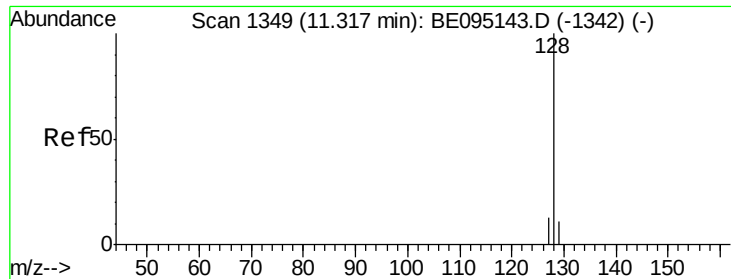
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.406 ng/ul

RT: 11.30 min Scan# 1347

Delta R.T. -0.01 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

Instrument :

BNA\_E

ClientSampleId :

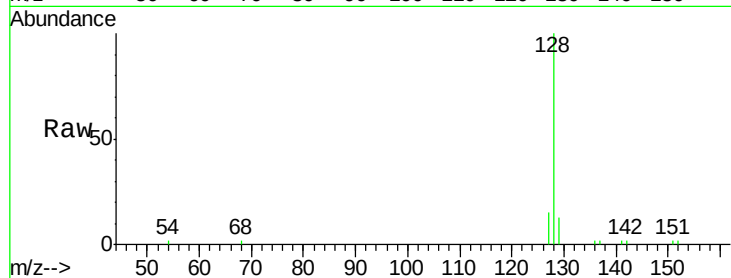
Tot Ion:128 Resp: 4568

Ion Ratio Lower Upper

128 100

129 12.7 11.3 16.9

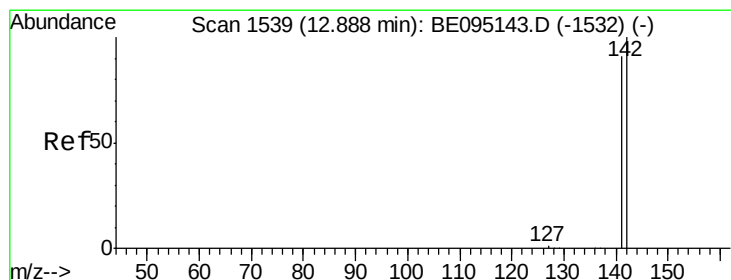
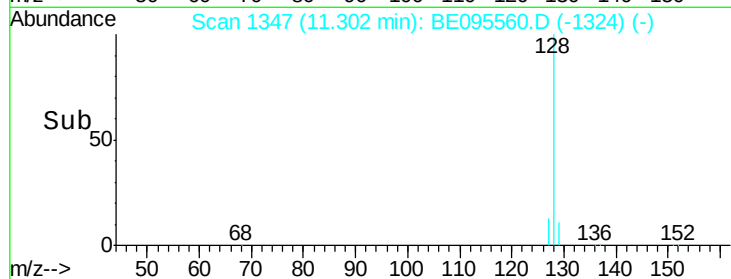
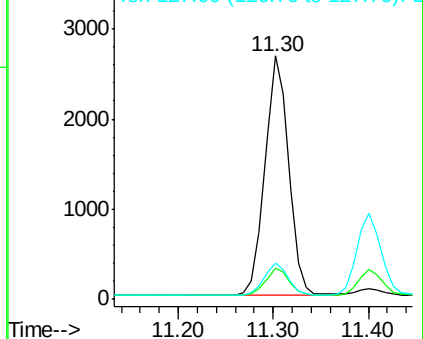
127 14.8 4.0 6.0#



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



#5

2-Methylnaphthalene

Concen: 0.408 ng/ul

RT: 12.88 min Scan# 1538

Delta R.T. 0.00 min

Lab File: BE095560.D

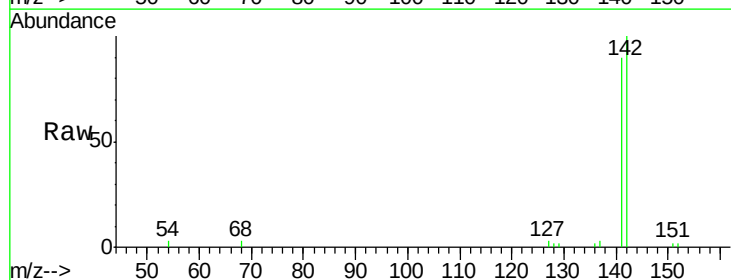
Acq: 8 Feb 2018 9:43

Tgt Ion:142 Resp: 3067

Ion Ratio Lower Upper

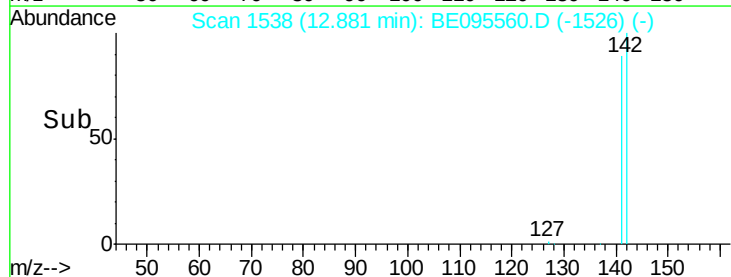
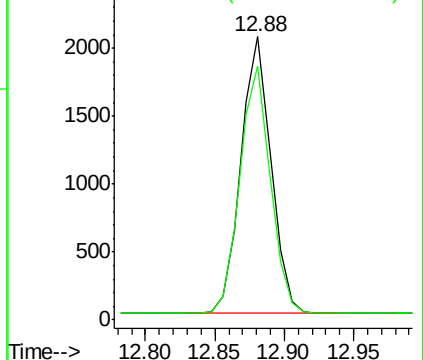
142 100

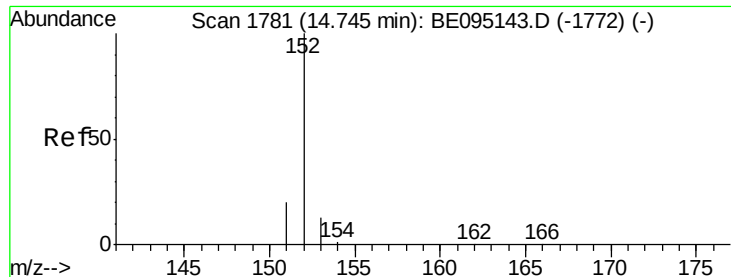
141 90.6 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.410 ng/ul

RT: 14.74 min Scan# 1780

Delta R.T. 0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

Instrument :

BNA\_E

ClientSampleId :

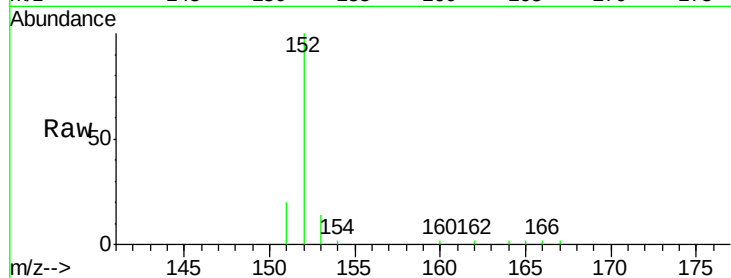
Tot Ion:152 Resp: 4376

Ion Ratio Lower Upper

152 100

151 20.2 17.1 25.7

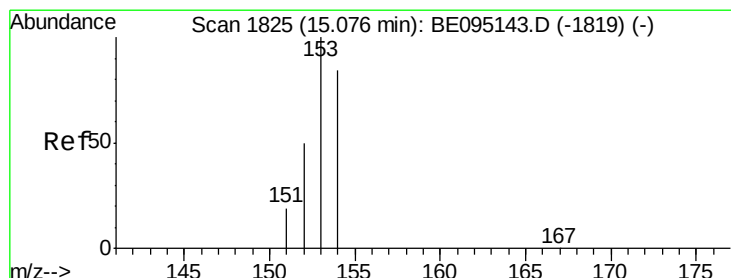
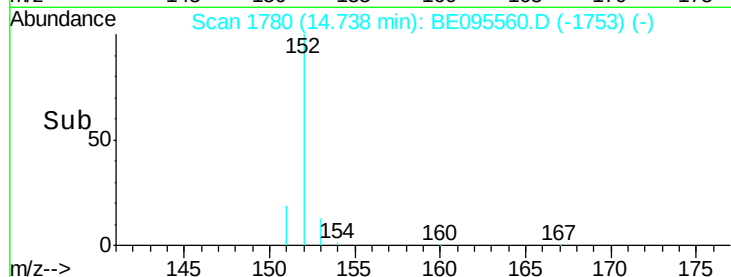
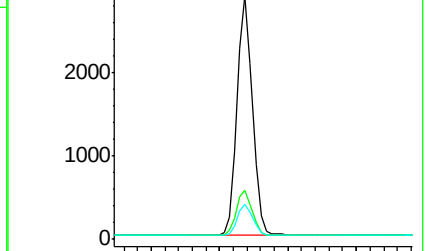
153 14.3 12.8 19.2



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



#8

Acenaphthene

Concen: 0.406 ng/ul

RT: 15.07 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

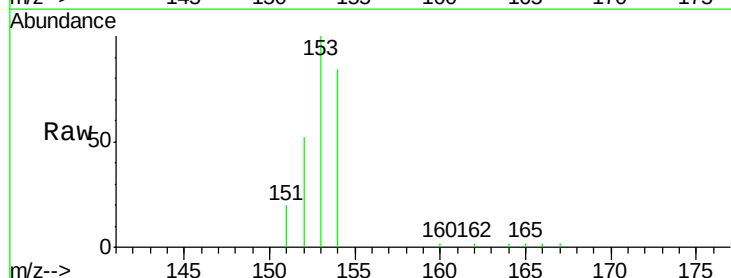
Tgt Ion:153 Resp: 3362

Ion Ratio Lower Upper

153 100

152 51.6 36.0 54.0

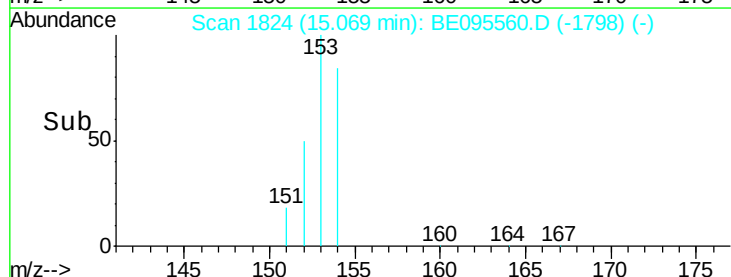
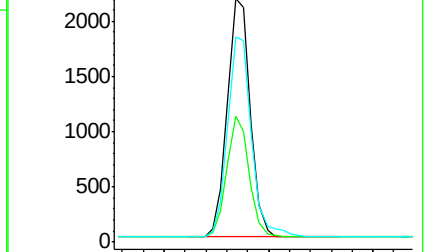
154 84.1 72.0 108.0

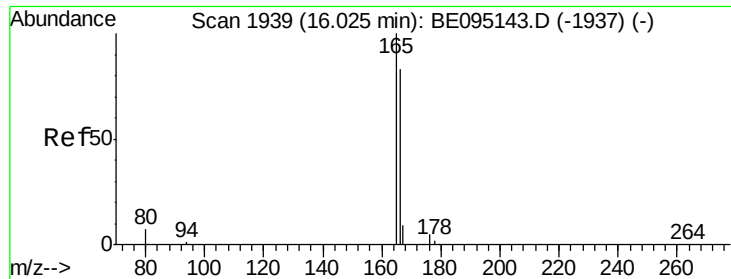


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.482 ng/ul

RT: 16.03 min Scan# 1939

Delta R.T. 0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

Instrument :

BNA\_E

ClientSampleId :

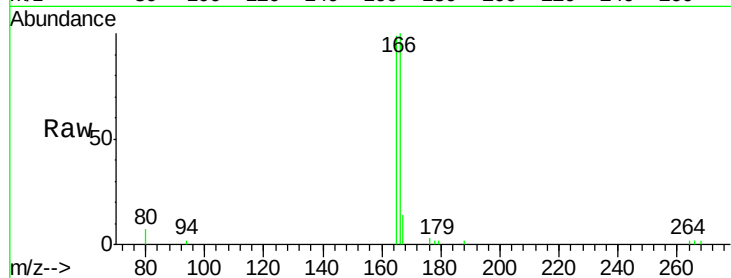
Tot Ion:166 Resp: 4113

Ion Ratio Lower Upper

166 100

165 99.4 73.4 110.2

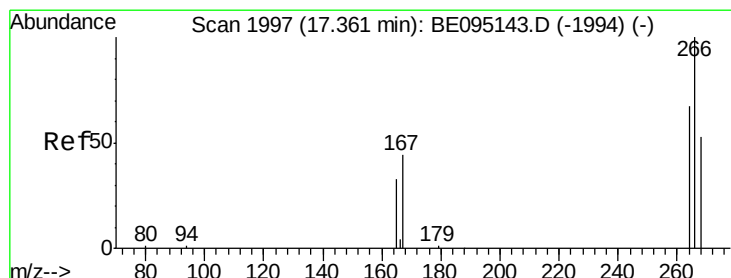
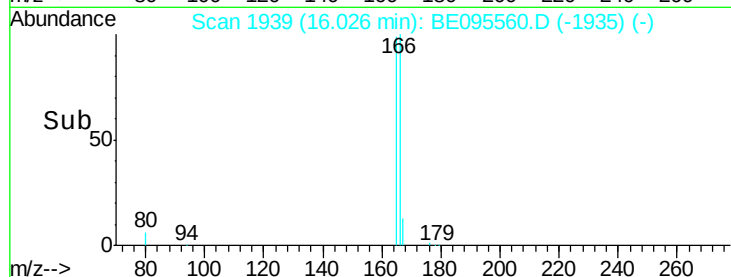
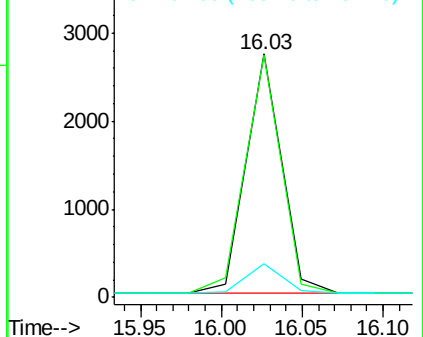
167 14.0 14.6 22.0#



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



#11

Pentachlorophenol

Concen: 0.382 ng/ul

RT: 17.36 min Scan# 1997

Delta R.T. 0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

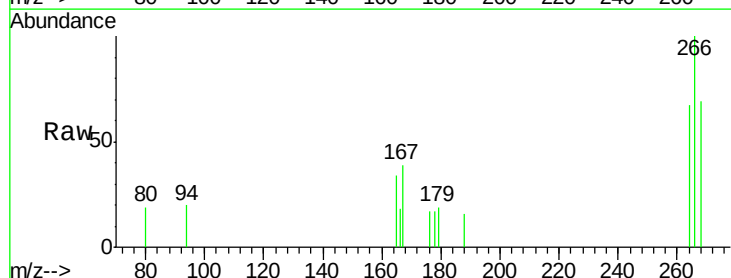
Tgt Ion:266 Resp: 438

Ion Ratio Lower Upper

266 100

264 58.7 47.9 71.9

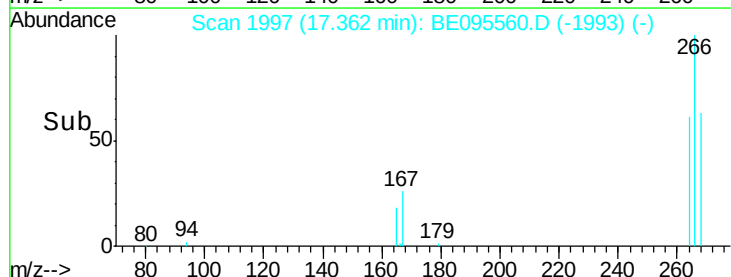
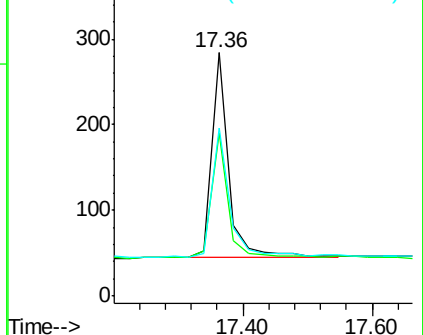
268 69.9 49.8 74.8

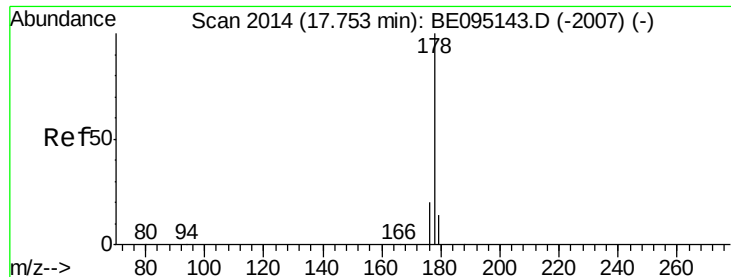


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.306 ng/ul

RT: 17.85 min Scan# 2018

Delta R.T. 0.09 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

Instrument :

BNA\_E

ClientSampleId :

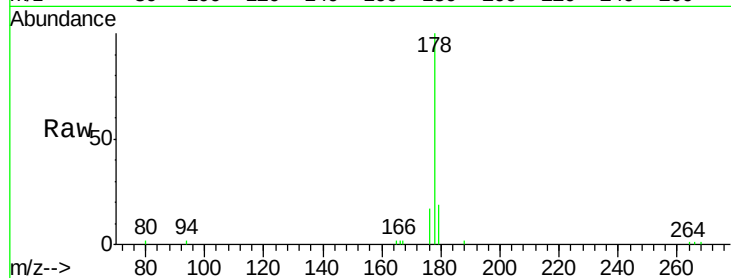
Tot Ion:178 Resp: 6102

Ion Ratio Lower Upper

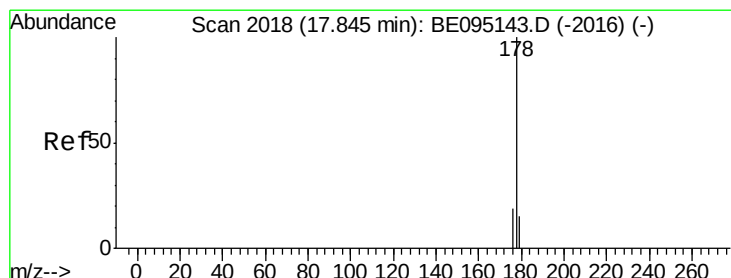
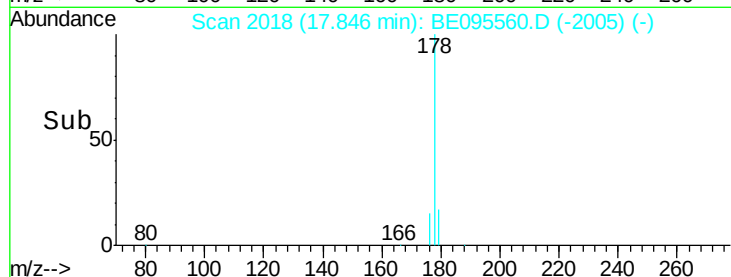
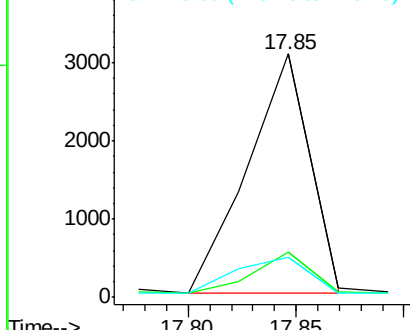
178 100

179 18.7 18.4 27.6

176 16.6 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#13

Anthracene

Concen: 0.336 ng/ul

RT: 17.85 min Scan# 2018

Delta R.T. 0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

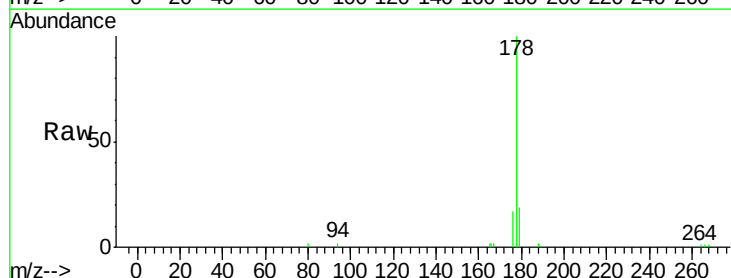
Tgt Ion:178 Resp: 6122

Ion Ratio Lower Upper

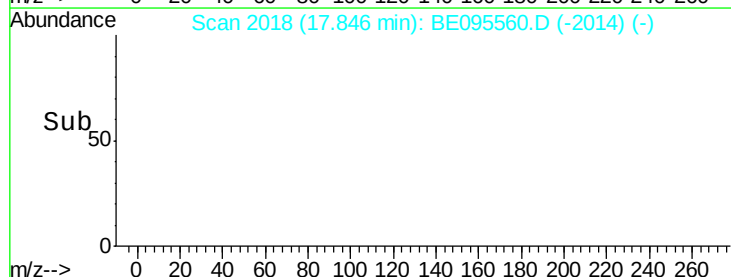
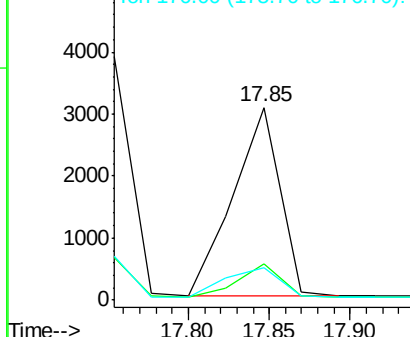
178 100

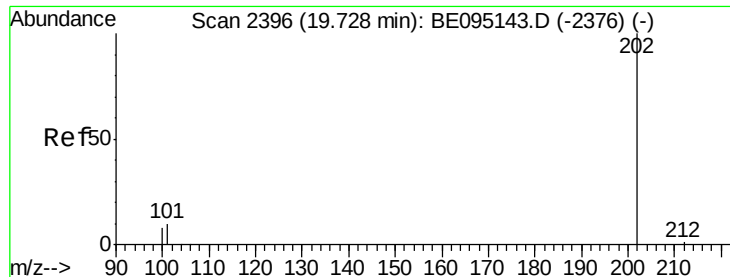
179 18.7 18.1 27.1

176 16.6 14.7 22.1



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E

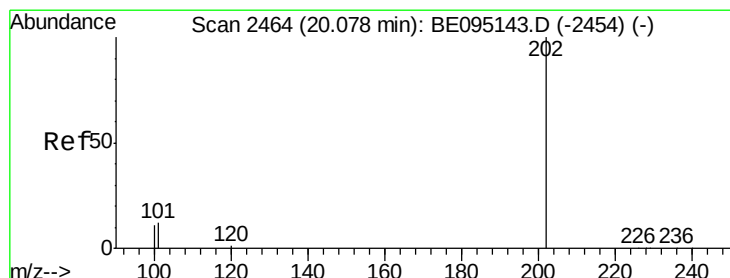
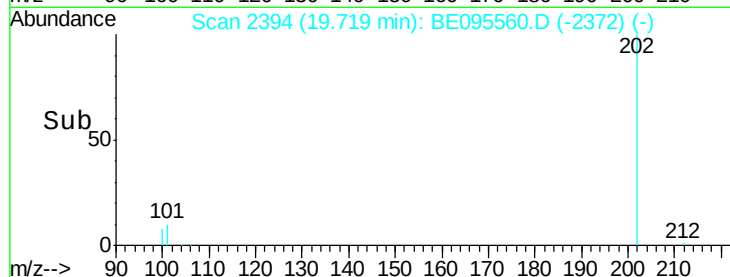
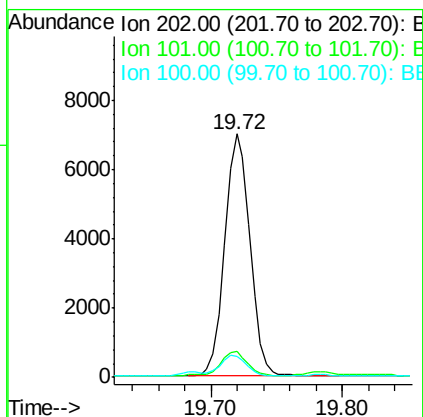
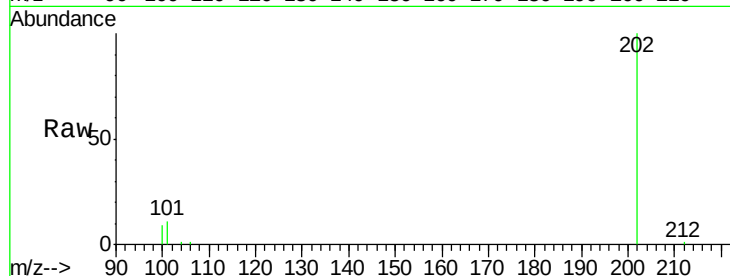




#15  
Fluoranthene  
Concen: 0.358 ng/ul  
RT: 19.72 min Scan# 2394  
Delta R.T. -0.00 min  
Lab File: BE095560.D  
Acq: 8 Feb 2018 9:43

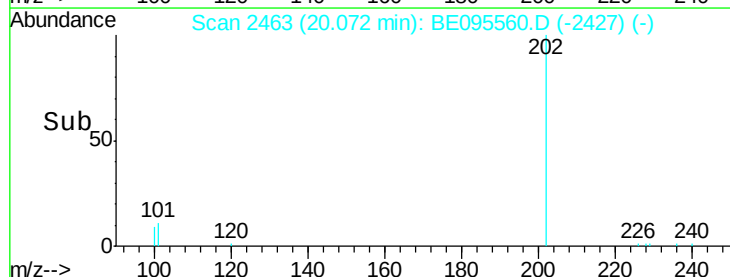
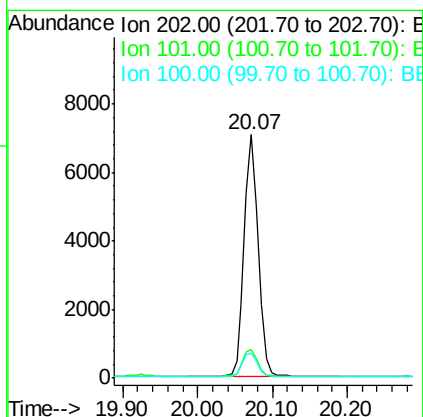
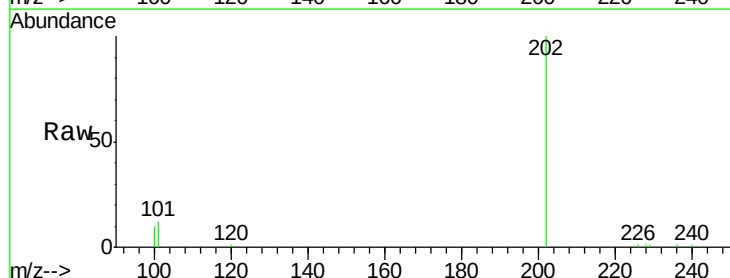
Instrument :  
BNA\_E  
ClientSampleId :

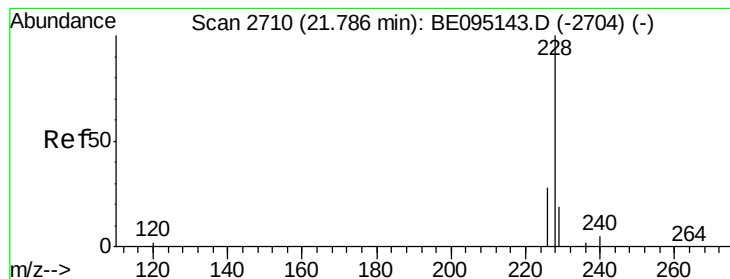
Tot Ion:202 Resp: 9218  
Ion Ratio Lower Upper  
202 100  
101 10.7 0.0 30.3  
100 8.7 0.0 39.5



#17  
Pyrene  
Concen: 0.460 ng/ul  
RT: 20.07 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: BE095560.D  
Acq: 8 Feb 2018 9:43

Tgt Ion:202 Resp: 10153  
Ion Ratio Lower Upper  
202 100  
101 11.8 18.2 27.4#  
100 10.1 15.6 23.4#





#18

Benzo(a)anthracene

Concen: 0.429 ng/ul

RT: 21.78 min Scan# 2709

Delta R.T. -0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

Instrument :

BNA\_E

ClientSampleId :

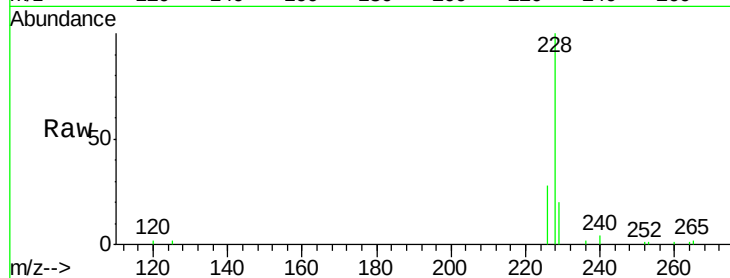
Tot Ion:228 Resp: 8831

Ion Ratio Lower Upper

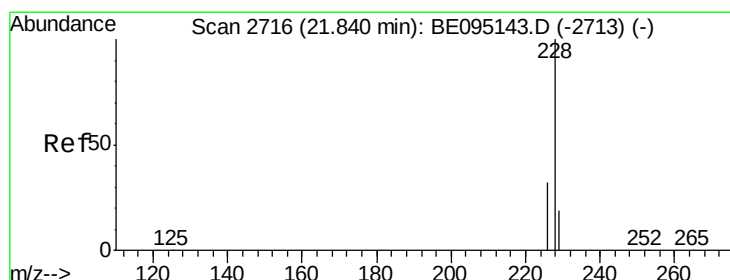
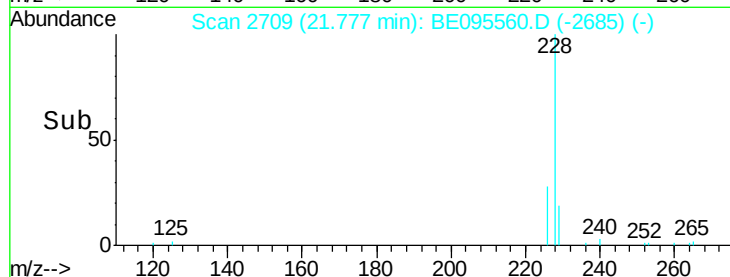
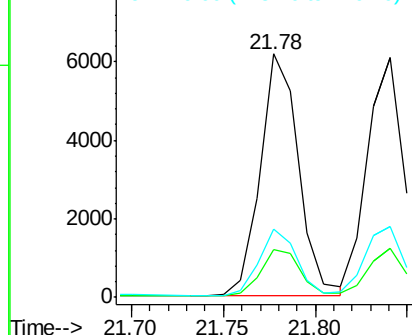
228 100

229 19.7 22.8 34.2#

226 28.2 17.0 25.6#



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



#19

Chrysene

Concen: 0.401 ng/ul

RT: 21.84 min Scan# 2716

Delta R.T. -0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

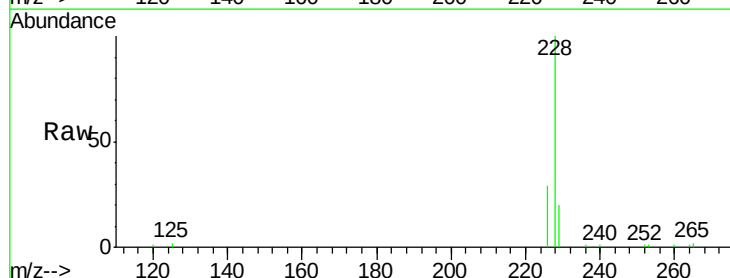
Tgt Ion:228 Resp: 8558

Ion Ratio Lower Upper

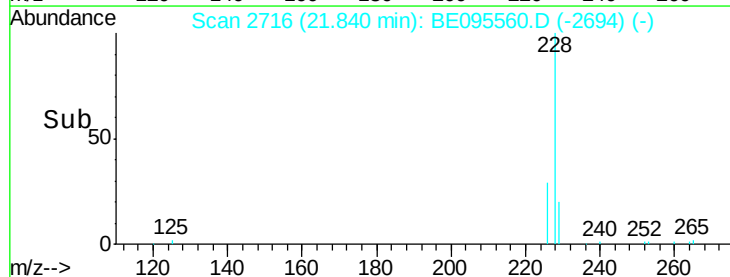
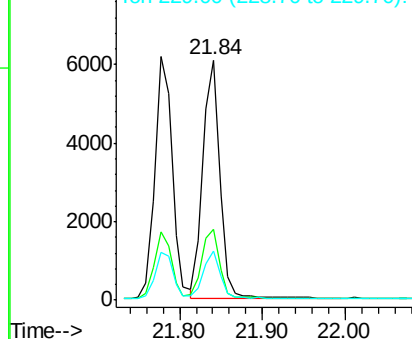
228 100

226 29.4 23.4 35.0

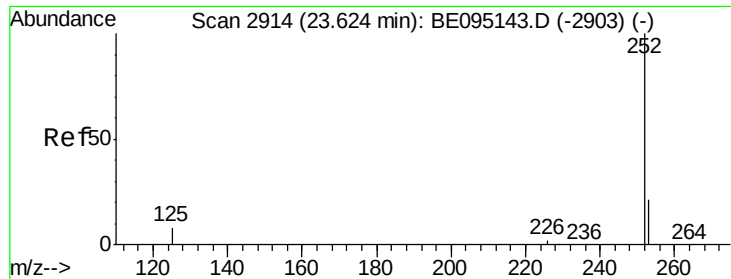
229 20.4 17.7 26.5



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







#21

Benzo(b)fluoranthene

Concen: 0.407 ng/ul

RT: 23.62 min Scan# 2913

Delta R.T. -0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

Instrument :

BNA\_E

ClientSampleId :

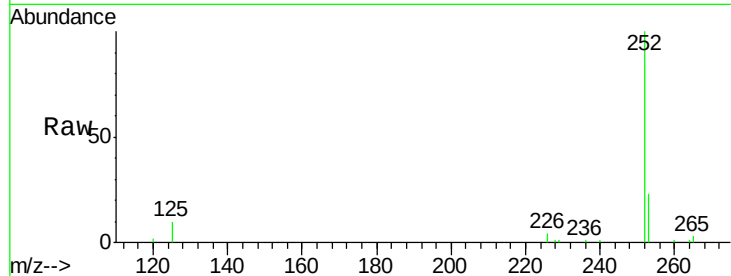
Tot Ion:252 Resp: 8443

Ion Ratio Lower Upper

252 100

253 23.2 0.0 64.2

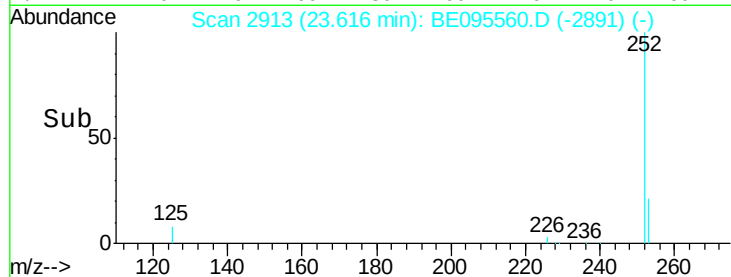
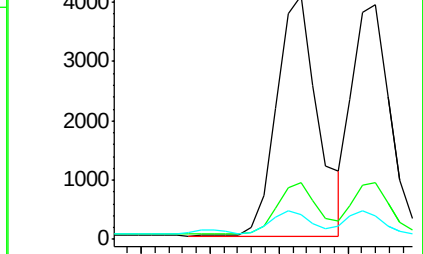
125 10.2 0.0 35.0



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



#22

Benzo(k)fluoranthene

Concen: 0.393 ng/ul

RT: 23.67 min Scan# 2919

Delta R.T. -0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

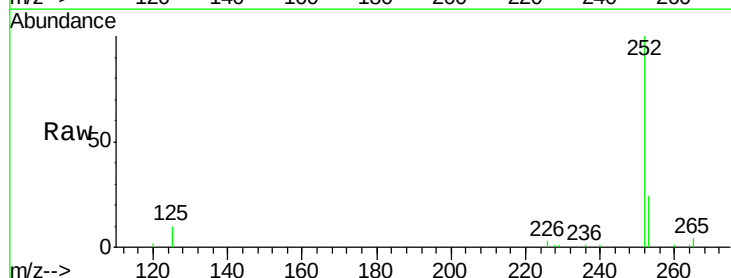
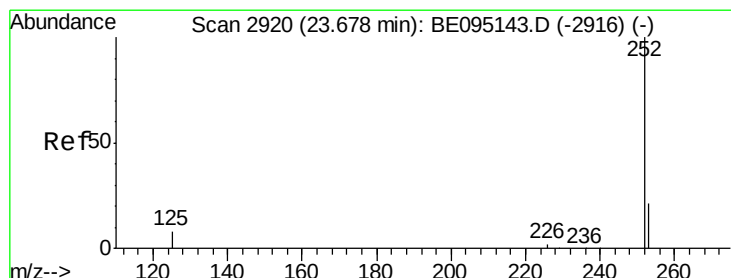
Tgt Ion:252 Resp: 7460

Ion Ratio Lower Upper

252 100

253 24.3 24.5 36.7#

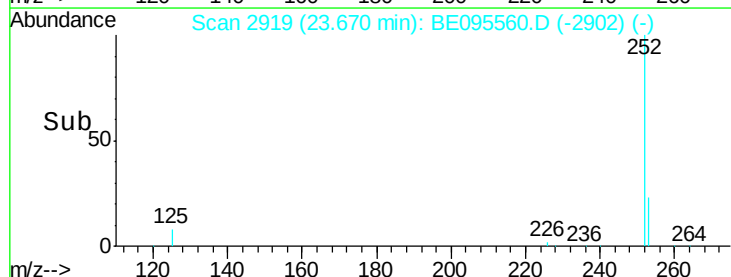
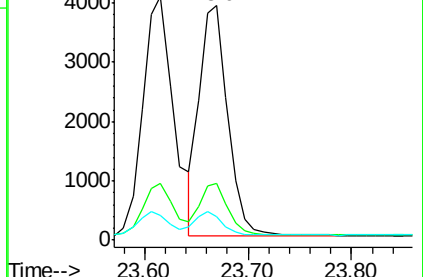
125 10.2 13.7 20.5#

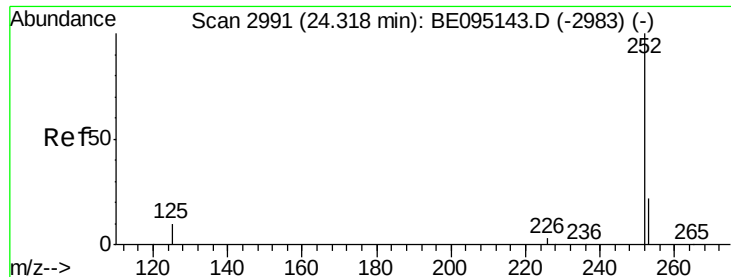


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.405 ng/ul

RT: 24.31 min Scan# 2990

Delta R.T. -0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

Instrument :

BNA\_E

ClientSampleId :

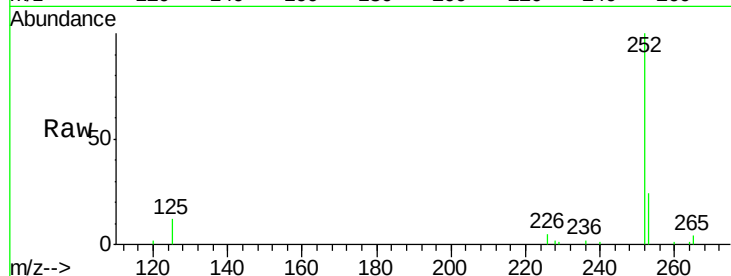
Tot Ion:252 Resp: 7517

Ion Ratio Lower Upper

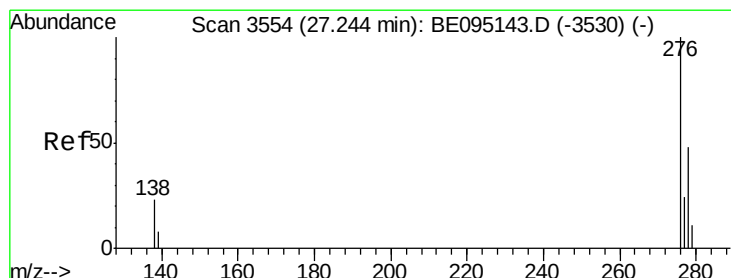
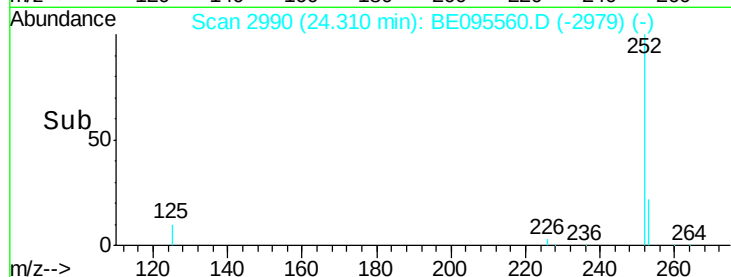
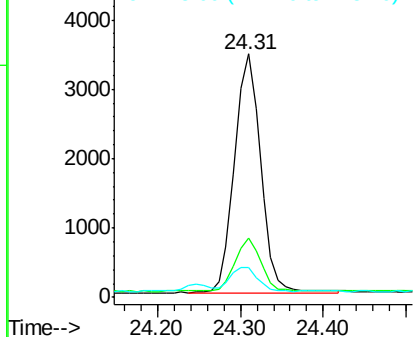
252 100

253 24.2 28.5 42.7#

125 12.2 18.1 27.1#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.412 ng/ul

RT: 27.24 min Scan# 3553

Delta R.T. -0.00 min

Lab File: BE095560.D

Acq: 8 Feb 2018 9:43

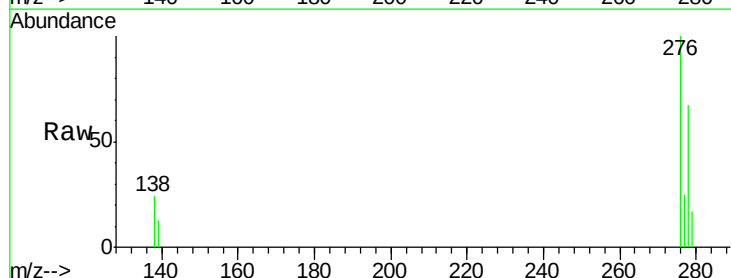
Tgt Ion:276 Resp: 8382

Ion Ratio Lower Upper

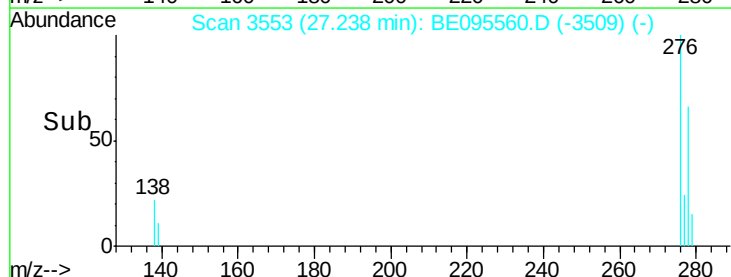
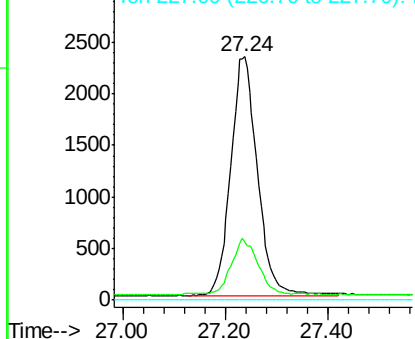
276 100

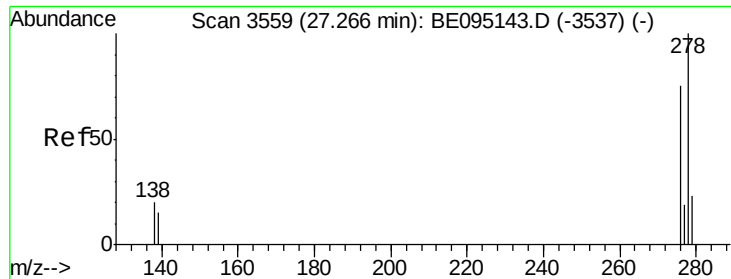
138 22.8 28.0 42.0#

227 0.0 8.0 12.0#



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E

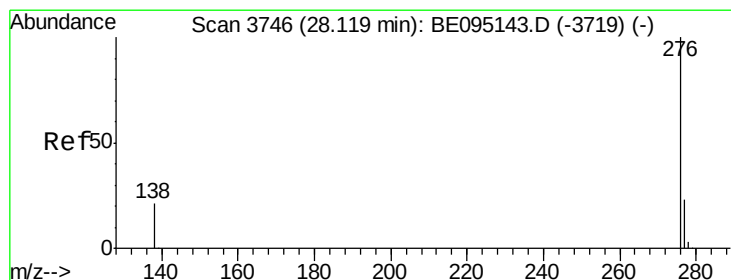
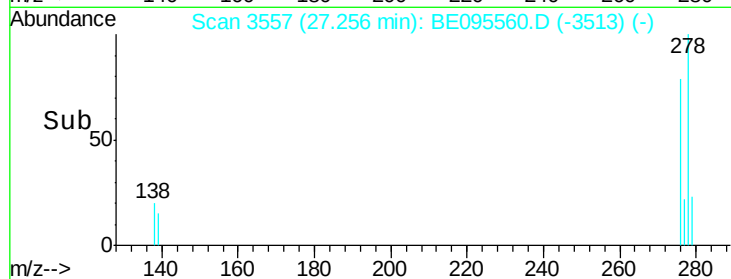
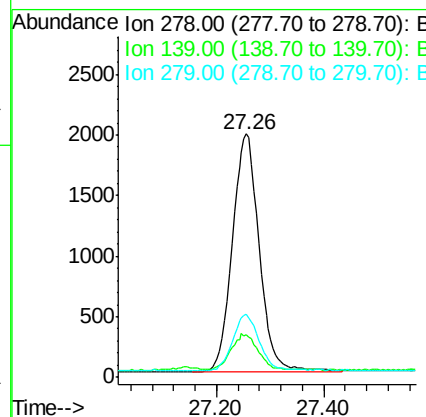
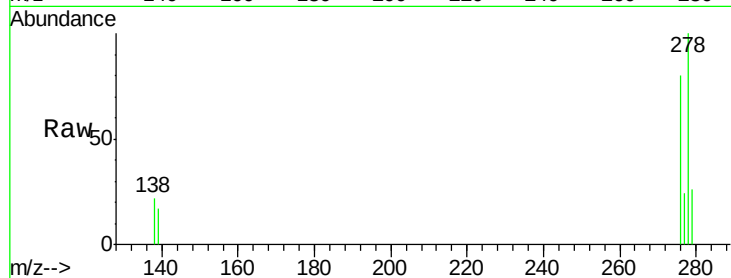




#25  
Dibenzo(a,h)anthracene  
Concen: 0.410 ng/ul  
RT: 27.26 min Scan# 3557  
Delta R.T. -0.00 min  
Lab File: BE095560.D  
Acq: 8 Feb 2018 9:43

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:278 Resp: 6827  
Ion Ratio Lower Upper  
278 100  
139 17.3 17.4 26.0#  
279 25.7 25.9 38.9#



#26  
Benzo(g,h,i)perylene  
Concen: 0.407 ng/ul  
RT: 28.11 min Scan# 3745  
Delta R.T. 0.00 min  
Lab File: BE095560.D  
Acq: 8 Feb 2018 9:43

Tgt Ion:276 Resp: 6999  
Ion Ratio Lower Upper  
276 100  
138 22.4 21.8 32.8  
277 25.2 20.5 30.7

