

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE122818\  
 Data File : BE098567.D  
 Acq On : 28 Dec 2018 10:37  
 Operator : SJ/JU  
 Sample : SSTD0.404  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Dec 28 11:37:33 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE122818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 28 11:34:21 2018  
 Response via : Initial Calibration

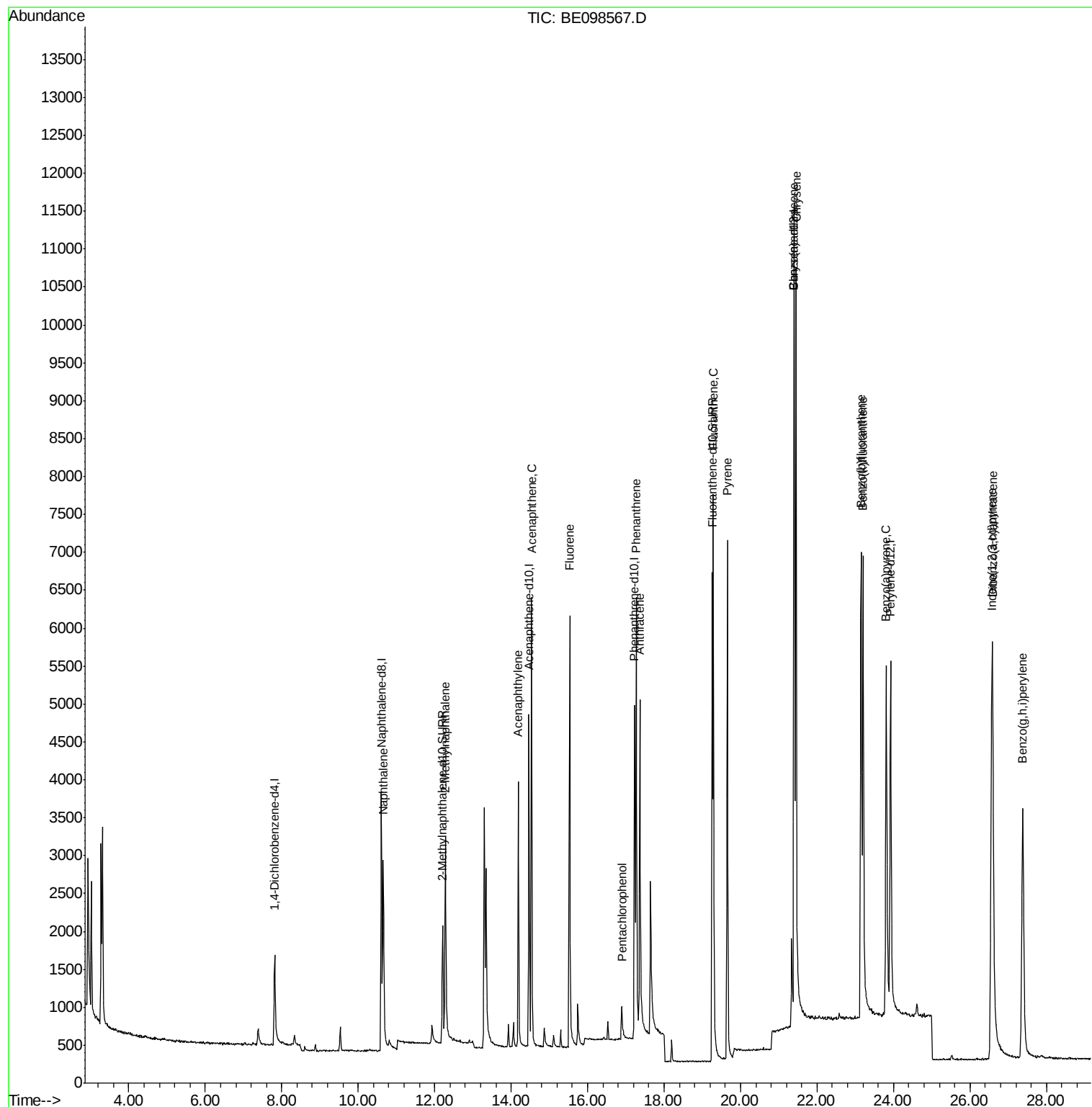
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.81  | 152  | 885      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.61 | 136  | 4236     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.47 | 164  | 2684     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.23 | 188  | 6759     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.41 | 240  | 7989     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.92 | 264  | 7966     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.21 | 152  | 2699     | 0.36   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.26 | 212  | 8387     | 0.38   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.66 | 128  | 4577     | 0.451  | ng/ul  | 100      |
| 5) 2-Methylnaphthalene      | 12.28 | 142  | 2845     | 0.371  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.19 | 152  | 4428     | 0.418  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.53 | 153  | 3537     | 0.447  | ng/ul  | 98       |
| 9) Fluorene                 | 15.53 | 166  | 4231     | 0.444  | ng/ul  | 99       |
| 11) Pentachlorophenol       | 16.89 | 266  | 331      | 0.936  | ng/ul  | 95       |
| 12) Phenanthrene            | 17.27 | 178  | 6995     | 0.448  | ng/ul  | 99       |
| 13) Anthracene              | 17.37 | 178  | 5941     | 0.386  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.29 | 202  | 9194     | 0.462  | ng/ul  | 97       |
| 17) Pyrene                  | 19.65 | 202  | 10441    | 0.560  | ng/ul# | 95       |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 9022     | 0.384  | ng/ul  | 100      |
| 19) Chrysene                | 21.45 | 228  | 11102    | 0.611  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.15 | 252  | 9558     | 0.433  | ng/ul  | 98       |
| 22) Benzo(k)fluoranthene    | 23.20 | 252  | 10112    | 0.468  | ng/ul# | 98       |
| 23) Benzo(a)pyrene          | 23.81 | 252  | 9154     | 0.431  | ng/ul  | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.57 | 276  | 10600    | 0.436  | ng/ul# | 91       |
| 25) Dibenzo(a,h)anthracene  | 26.59 | 278  | 8675     | 0.428  | ng/ul# | 96       |
| 26) Benzo(g,h,i)perylene    | 27.38 | 276  | 9211     | 0.450  | ng/ul  | 97       |

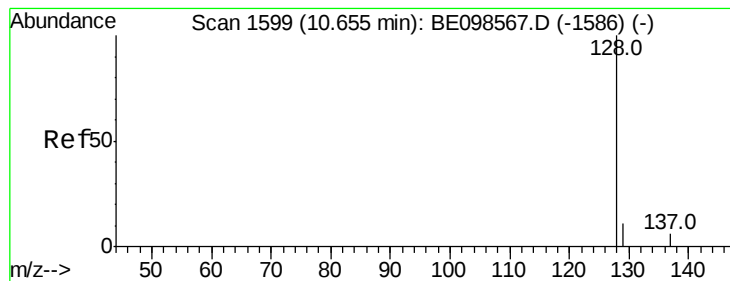
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE122818\  
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Sample : SST00.404  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: Dec 28 11:37:33 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE122818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 28 11:34:21 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.451 ng/ul

RT: 10.66 min Scan# 1599

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

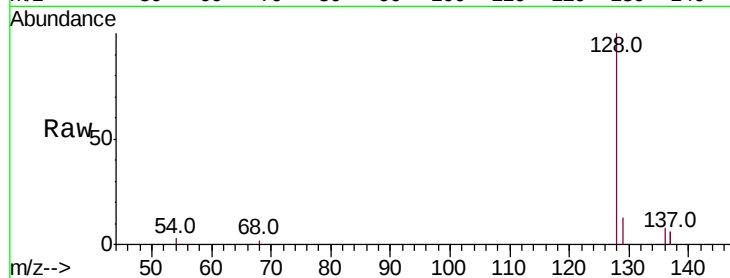
Tot Ion:128 Resp: 4577

Ion Ratio Lower Upper

128 100

129 13.1 10.5 15.7

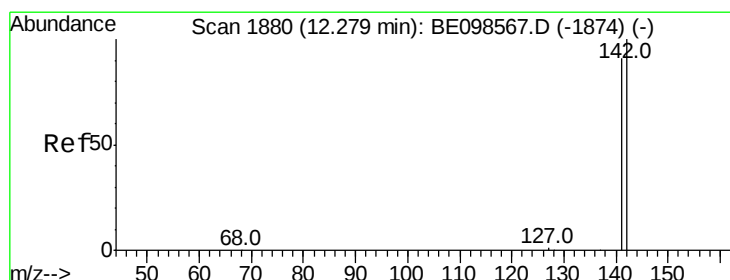
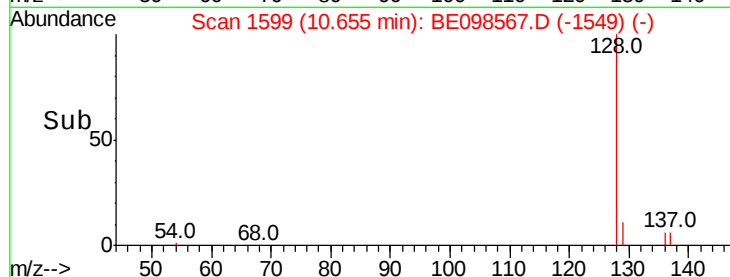
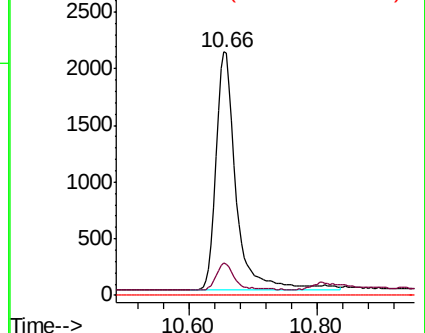
127 0.0 0.0 0.0



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: 0.371 ng/ul

RT: 12.28 min Scan# 1880

Delta R.T. 0.00 min

Lab File: BE098567.D

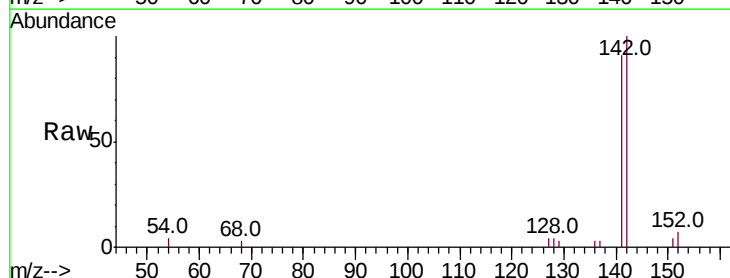
Acq: 28 Dec 2018 10:37

Tgt Ion:142 Resp: 2845

Ion Ratio Lower Upper

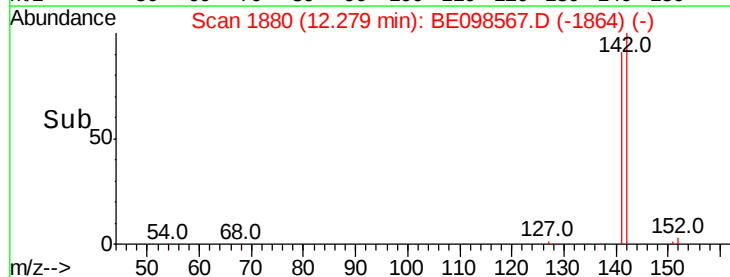
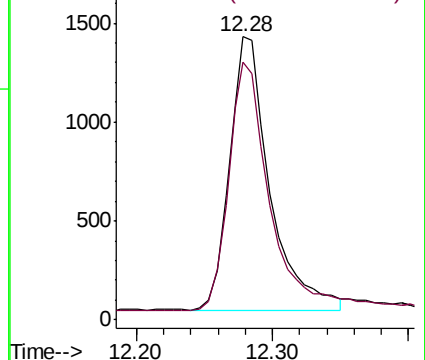
142 100

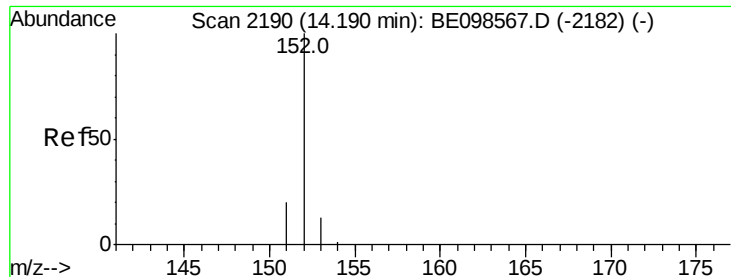
141 92.4 72.5 108.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.418 ng/ul

RT: 14.19 min Scan# 2190

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

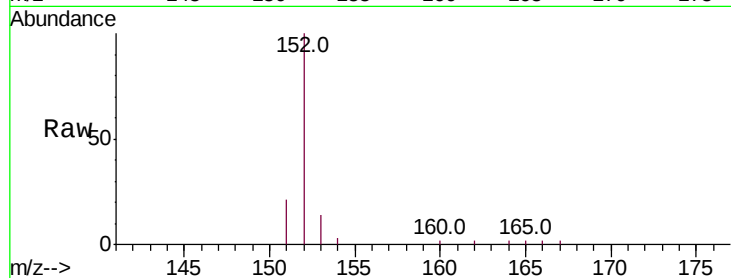
Tot Ion:152 Resp: 4428

Ion Ratio Lower Upper

152 100

151 21.2 17.3 25.9

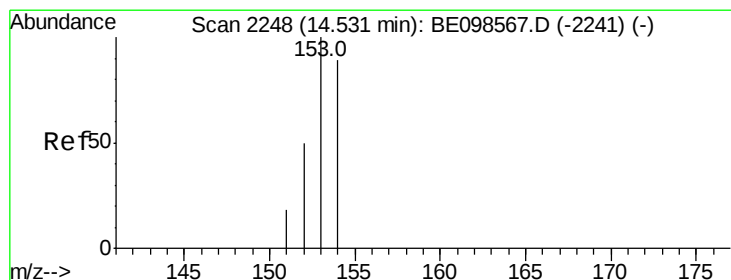
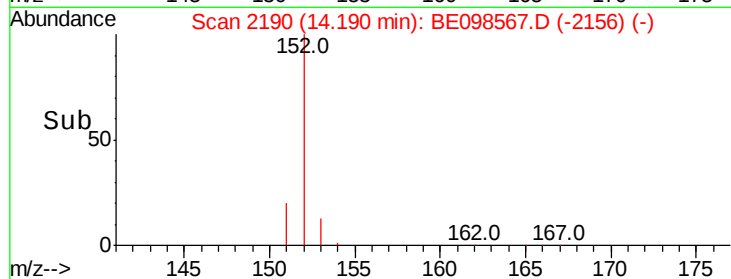
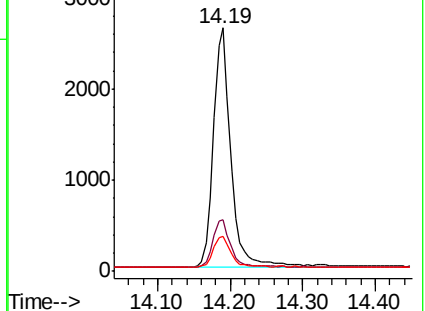
153 14.5 11.9 17.9



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: 0.447 ng/ul

RT: 14.53 min Scan# 2248

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

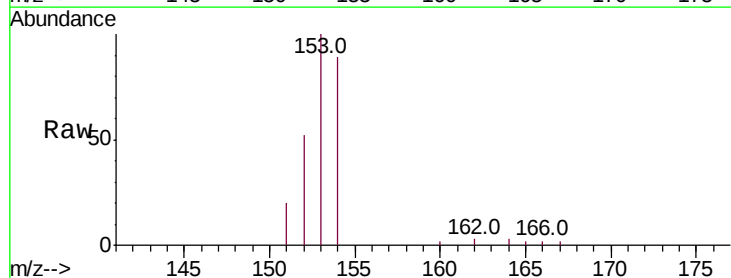
Tgt Ion:153 Resp: 3537

Ion Ratio Lower Upper

153 100

152 51.5 39.4 59.0

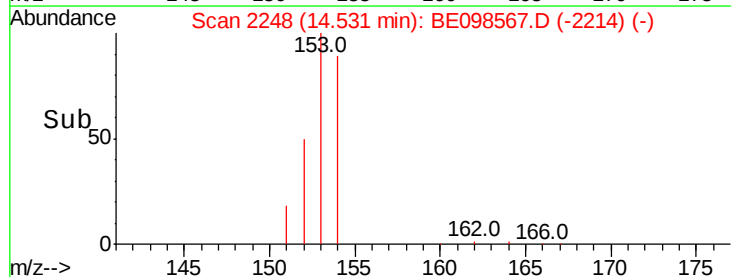
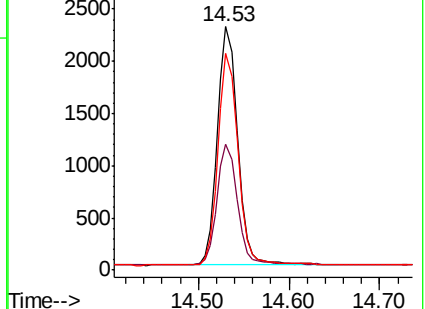
154 89.2 70.5 105.7

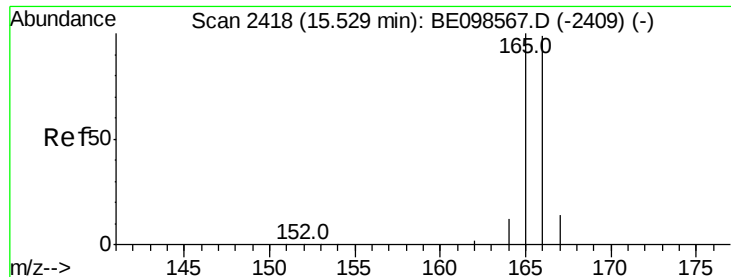


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.444 ng/ul

RT: 15.53 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

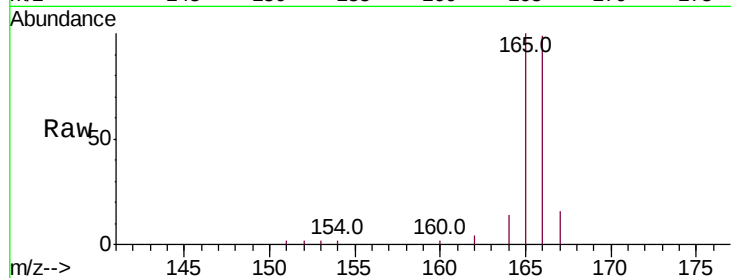
Tot Ion:166 Resp: 4231

Ion Ratio Lower Upper

166 100

165 101.4 80.2 120.4

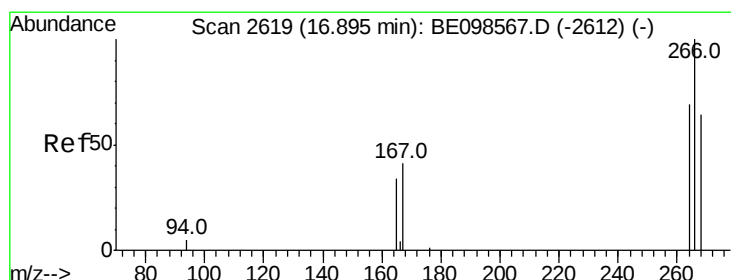
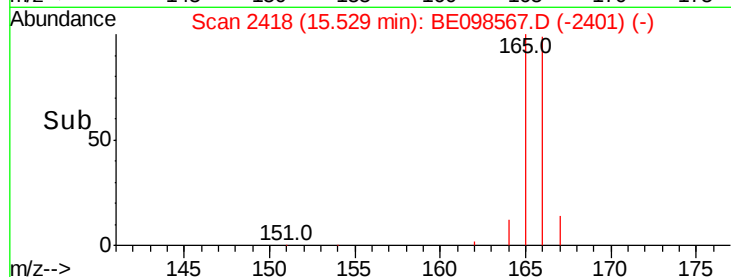
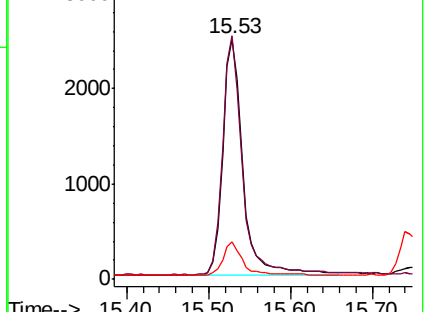
167 15.9 12.0 18.0



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: 0.936 ng/ul

RT: 16.89 min Scan# 2619

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

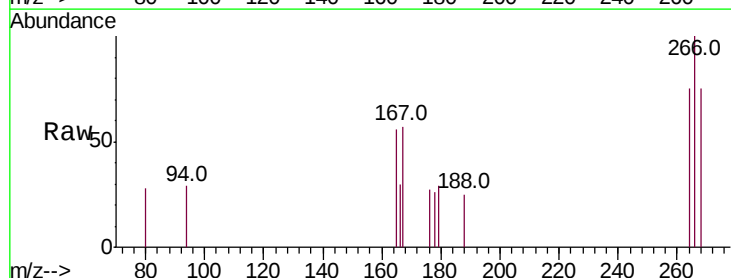
Tgt Ion:266 Resp: 331

Ion Ratio Lower Upper

266 100

264 68.0 48.5 72.7

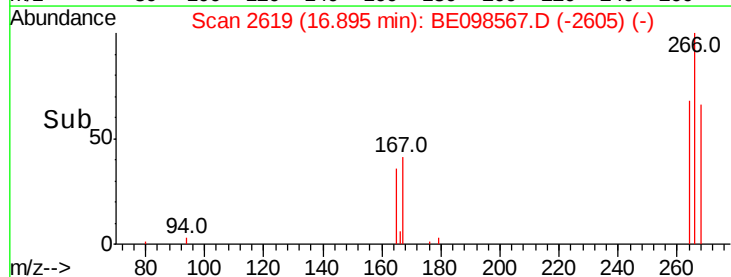
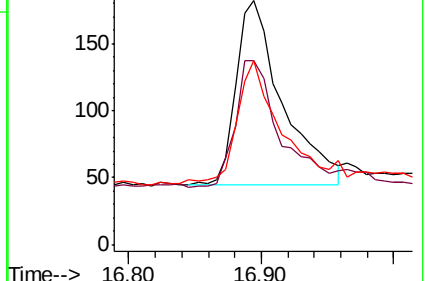
268 67.1 53.7 80.5

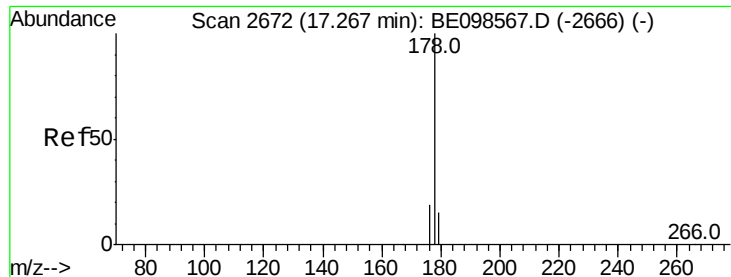


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.448 ng/ul

RT: 17.27 min Scan# 2672

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

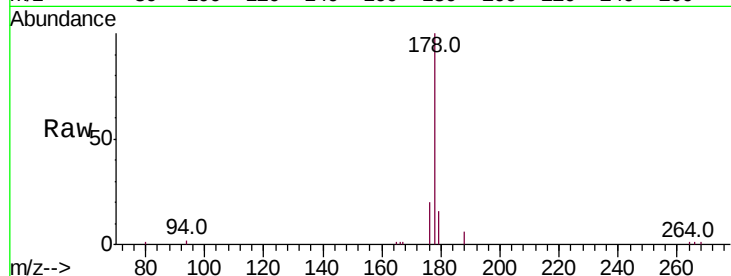
Tot Ion:178 Resp: 6995

Ion Ratio Lower Upper

178 100

179 16.3 13.0 19.4

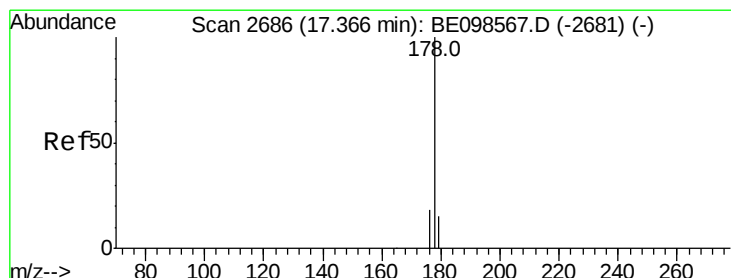
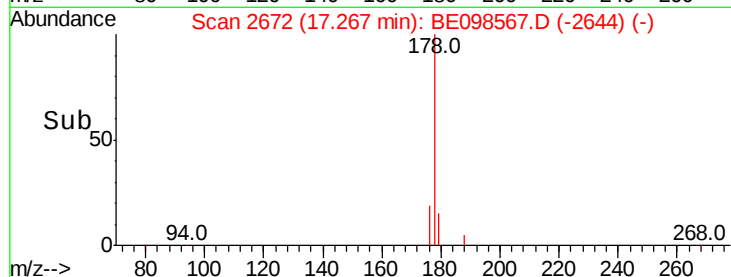
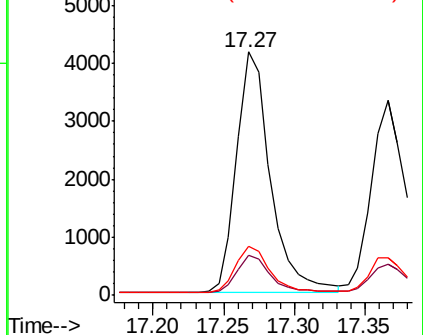
176 20.3 15.7 23.5



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: 0.386 ng/ul

RT: 17.37 min Scan# 2686

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

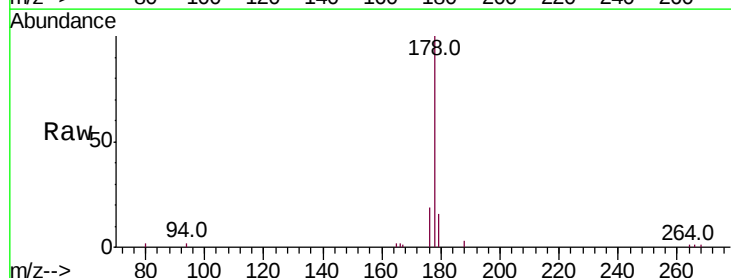
Tgt Ion:178 Resp: 5941

Ion Ratio Lower Upper

178 100

179 16.2 12.6 19.0

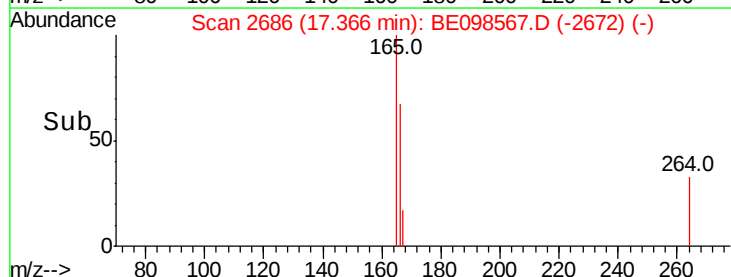
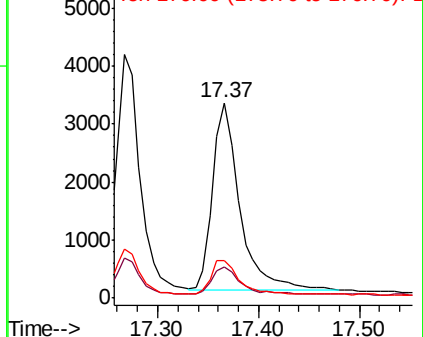
176 19.4 15.6 23.4

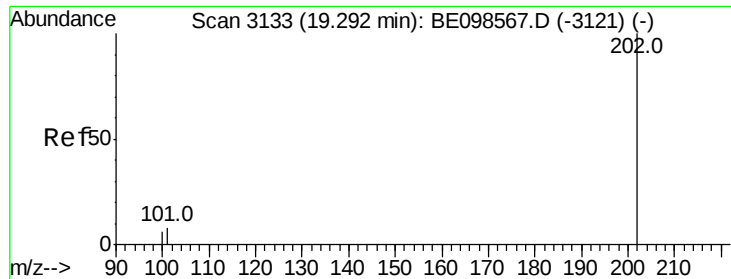


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 0.462 ng/ul

RT: 19.29 min Scan# 3133

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

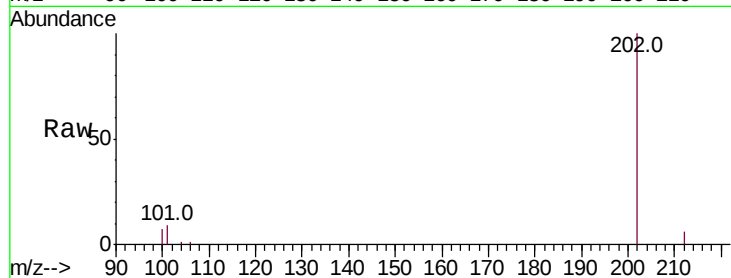
Tot Ion:202 Resp: 9194

Ion Ratio Lower Upper

202 100

101 8.7 0.0 27.5

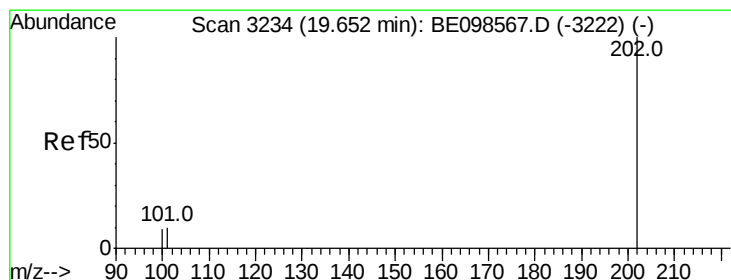
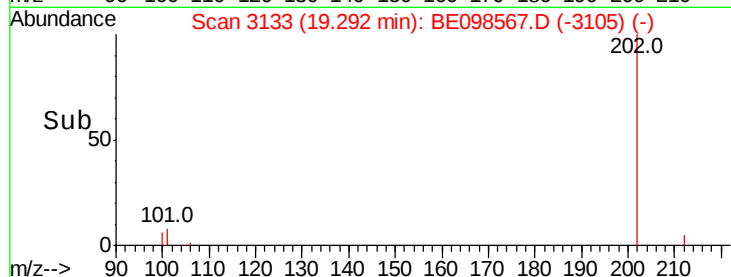
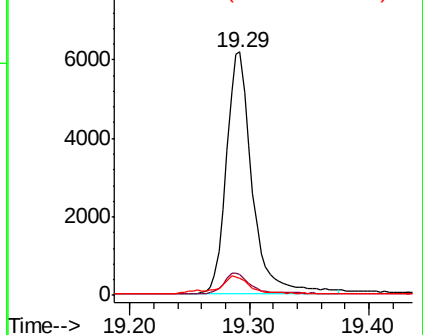
100 7.2 0.0 26.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE



#17

Pyrene

Concen: 0.560 ng/ul

RT: 19.65 min Scan# 3234

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

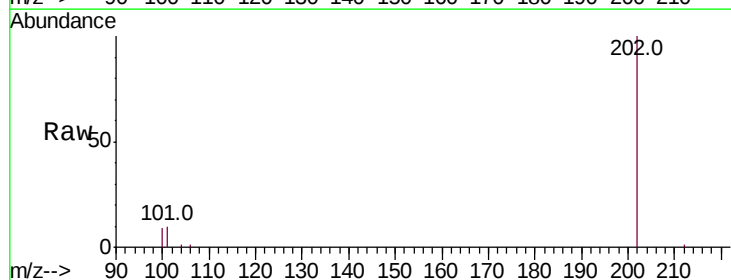
Tgt Ion:202 Resp: 10441

Ion Ratio Lower Upper

202 100

101 10.4 6.9 10.3#

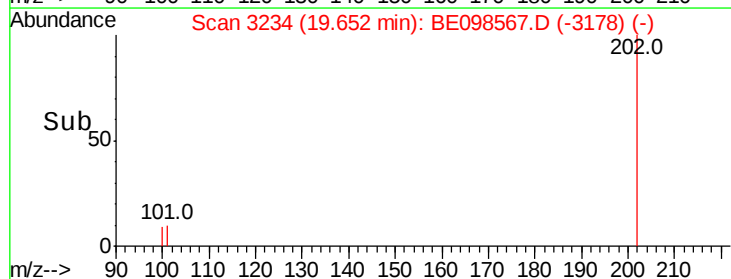
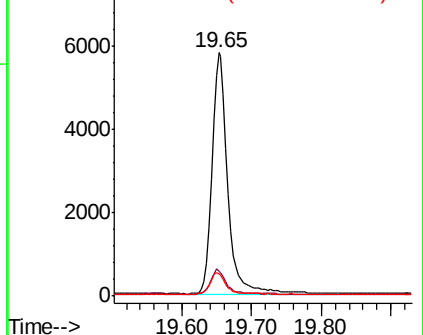
100 9.3 6.0 9.0#

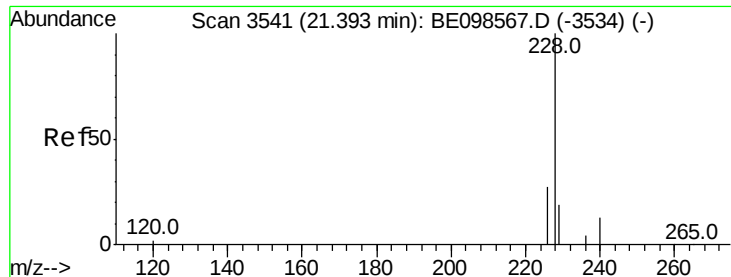


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 0.384 ng/ul

RT: 21.39 min Scan# 3541

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

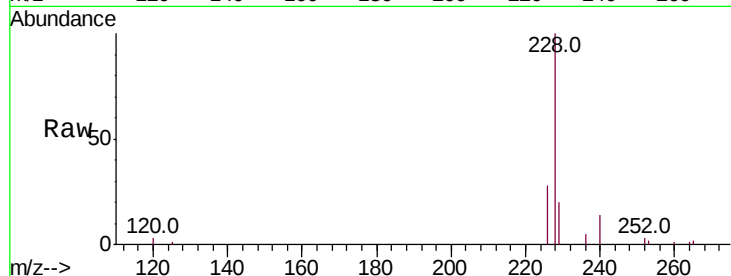
Tot Ion:228 Resp: 9022

Ion Ratio Lower Upper

228 100

229 20.1 16.1 24.1

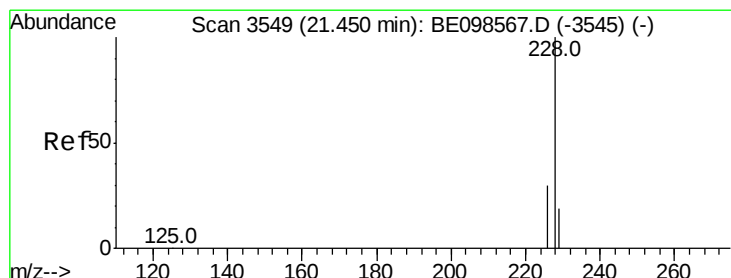
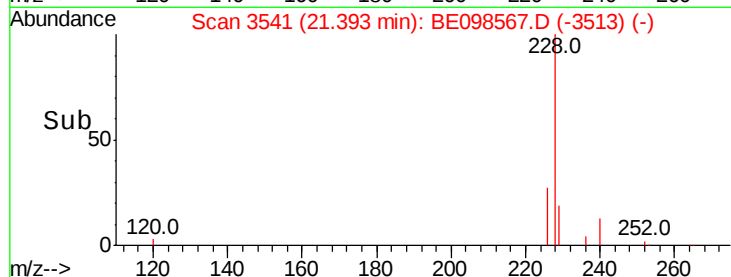
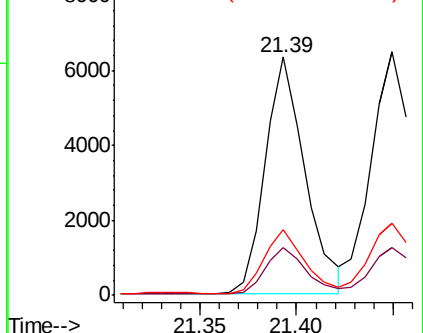
226 27.6 22.2 33.4



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: 0.611 ng/ul

RT: 21.45 min Scan# 3549

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

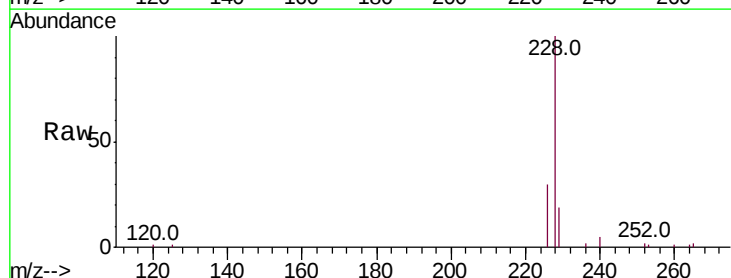
Tgt Ion:228 Resp: 11102

Ion Ratio Lower Upper

228 100

226 29.7 24.6 37.0

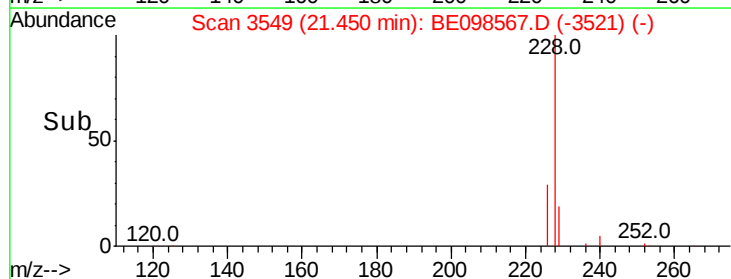
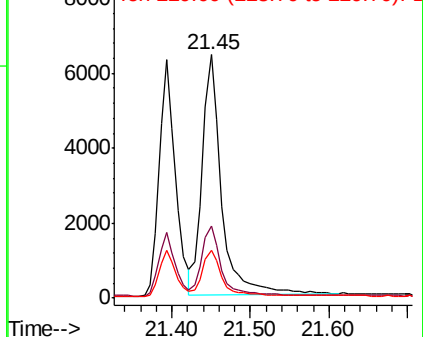
229 19.4 16.4 24.6

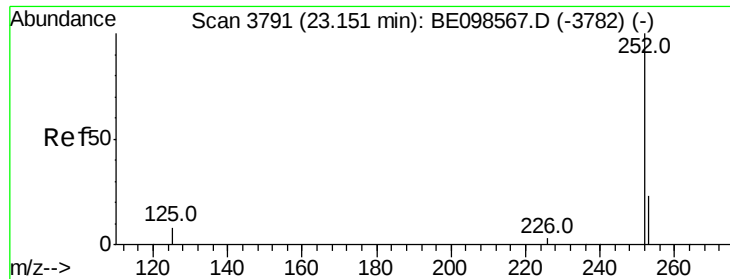


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.433 ng/ul

RT: 23.15 min Scan# 3791

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

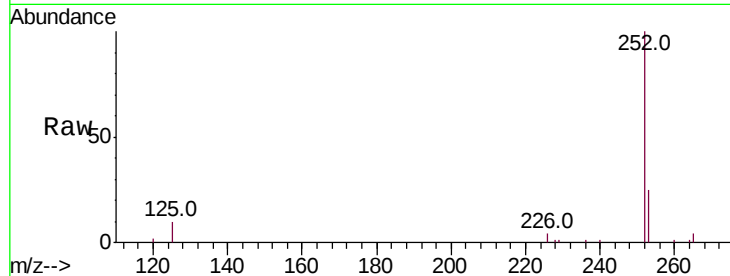
Tot Ion:252 Resp: 9558

Ion Ratio Lower Upper

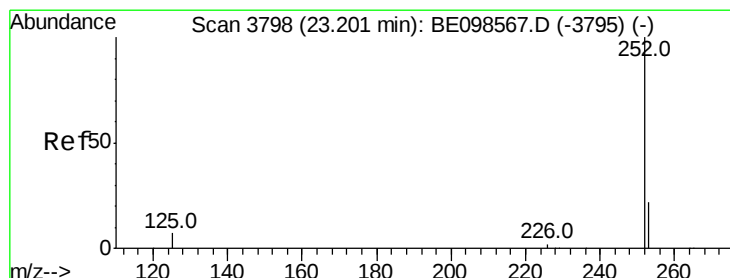
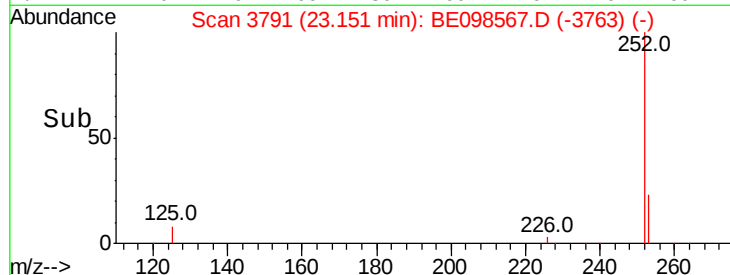
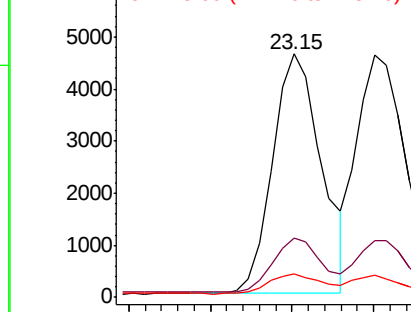
252 100

253 24.5 0.0 47.8

125 9.6 0.0 16.8



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: 0.468 ng/ul

RT: 23.20 min Scan# 3798

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

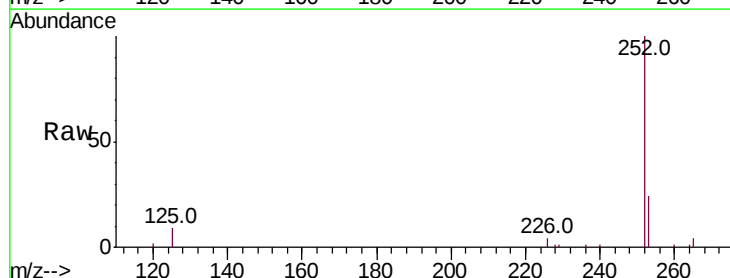
Tgt Ion:252 Resp: 10112

Ion Ratio Lower Upper

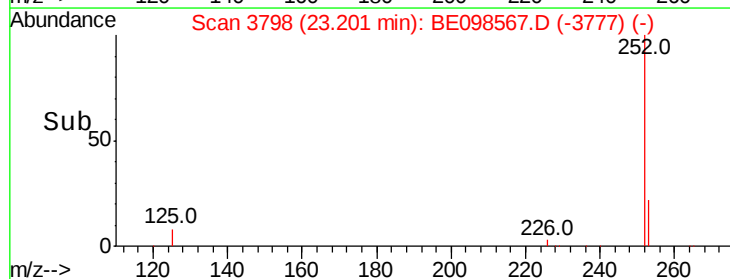
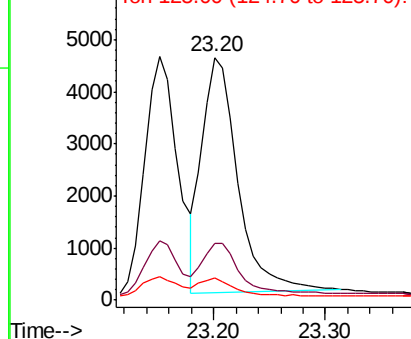
252 100

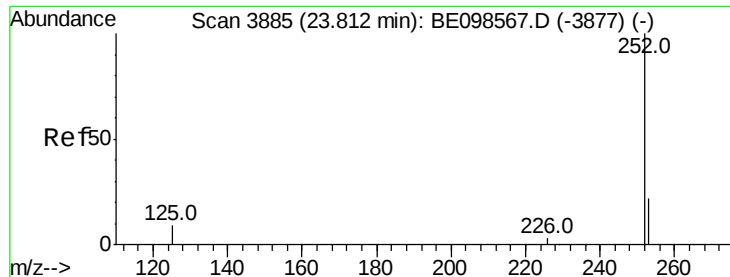
253 23.5 19.3 28.9

125 9.4 6.2 9.2#



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: 0.431 ng/ul

RT: 23.81 min Scan# 3885

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

Instrument :

BNA\_E

ClientSampleId :

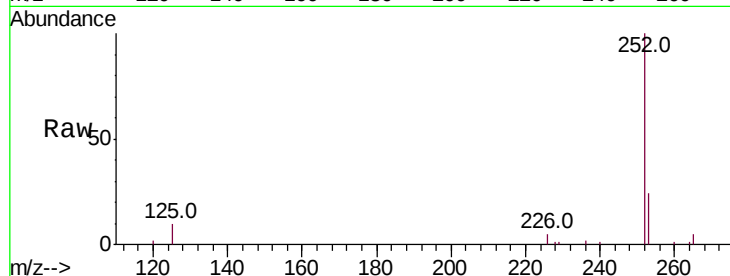
Tot Ion:252 Resp: 9154

Ion Ratio Lower Upper

252 100

253 24.5 19.4 29.2

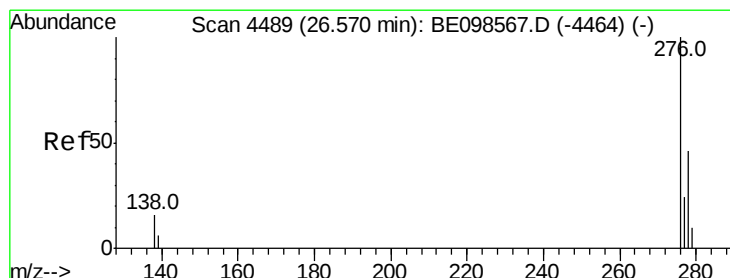
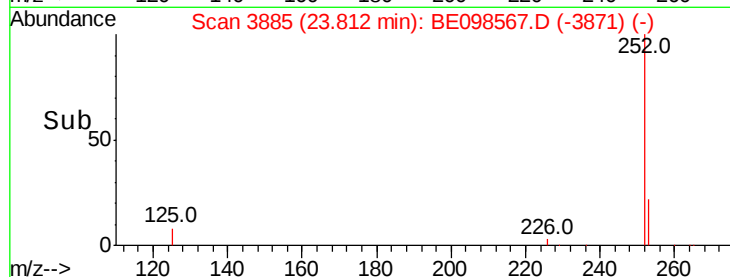
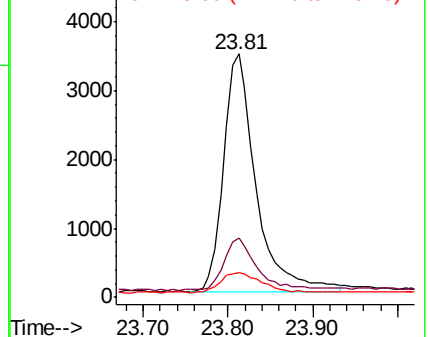
125 10.3 7.8 11.8



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: 0.436 ng/ul

RT: 26.57 min Scan# 4489

Delta R.T. 0.00 min

Lab File: BE098567.D

Acq: 28 Dec 2018 10:37

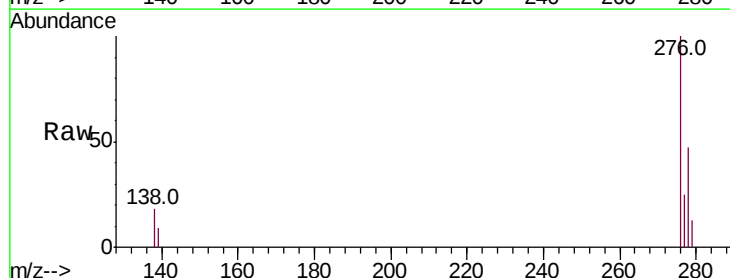
Tgt Ion:276 Resp: 10600

Ion Ratio Lower Upper

276 100

138 18.4 11.8 17.8#

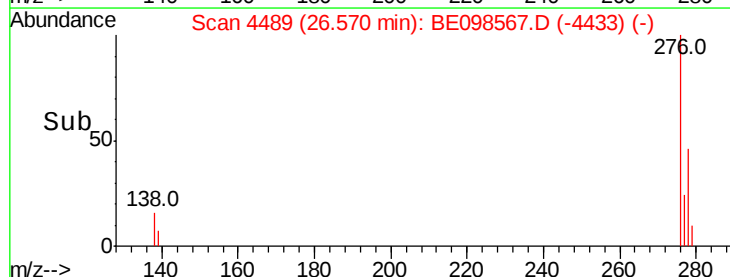
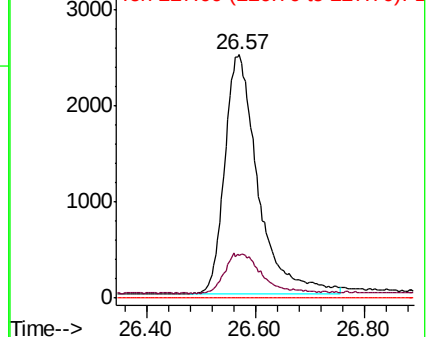
227 0.0 0.0 0.0

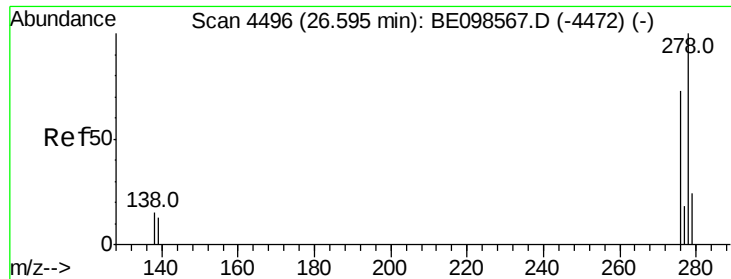


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

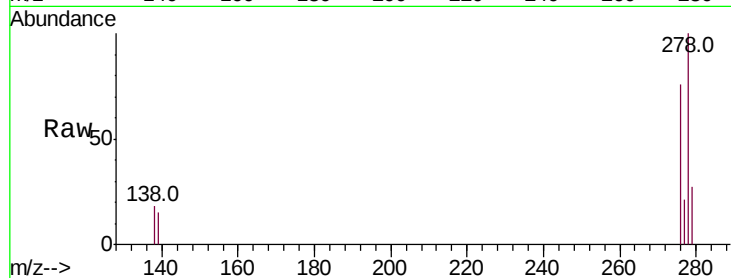




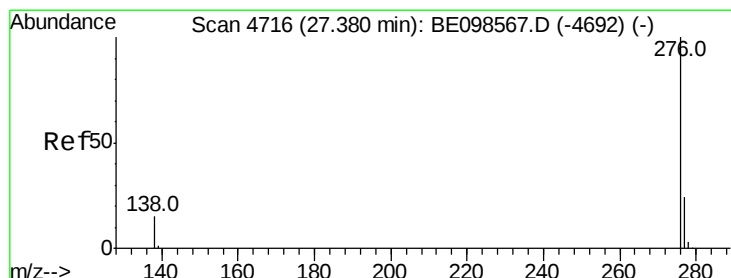
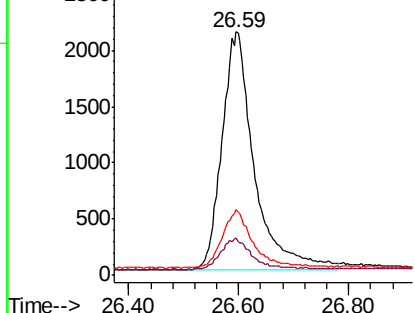
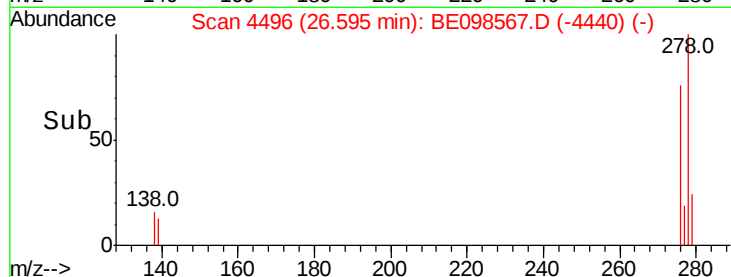
#25  
Dibenzo(a,h)anthracene  
Concen: 0.428 ng/ul  
RT: 26.59 min Scan# 4496  
Delta R.T. 0.00 min  
Lab File: BE098567.D  
Acq: 28 Dec 2018 10:37

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 8675  
Ion Ratio Lower Upper  
278 100  
139 15.3 10.0 15.0#  
279 26.7 20.3 30.5

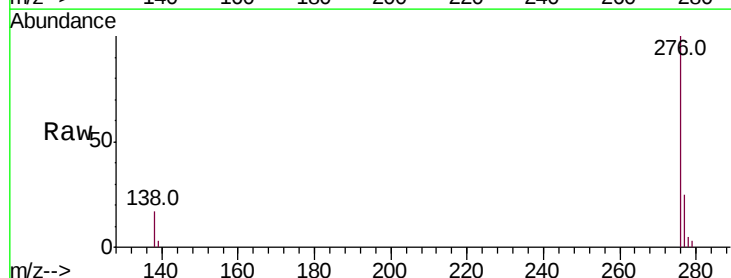


Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 0.450 ng/ul  
RT: 27.38 min Scan# 4716  
Delta R.T. 0.00 min  
Lab File: BE098567.D  
Acq: 28 Dec 2018 10:37

Tgt Ion:276 Resp: 9211  
Ion Ratio Lower Upper  
276 100  
138 17.1 11.6 17.4  
277 25.2 20.8 31.2



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

