

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110617\  
 Data File : BE094766.D  
 Acq On : 6 Nov 2017 22:49  
 Operator : SJ/JU  
 Sample : I6096-07 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 DUP-7

Quant Time: Nov 07 01:31:31 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 07 01:23:46 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.91  | 152  | 1440     | 0.40 | ng/ul | -0.01    |
| 2) Naphthalene-d8         | 10.69 | 136  | 8486     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.52 | 164  | 4767     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 10603    | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.43 | 240  | 10729    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.98 | 264  | 10893    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 484      | 0.04 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.29 | 212  | 1113     | 0.04 | ng/ul | 0.00     |

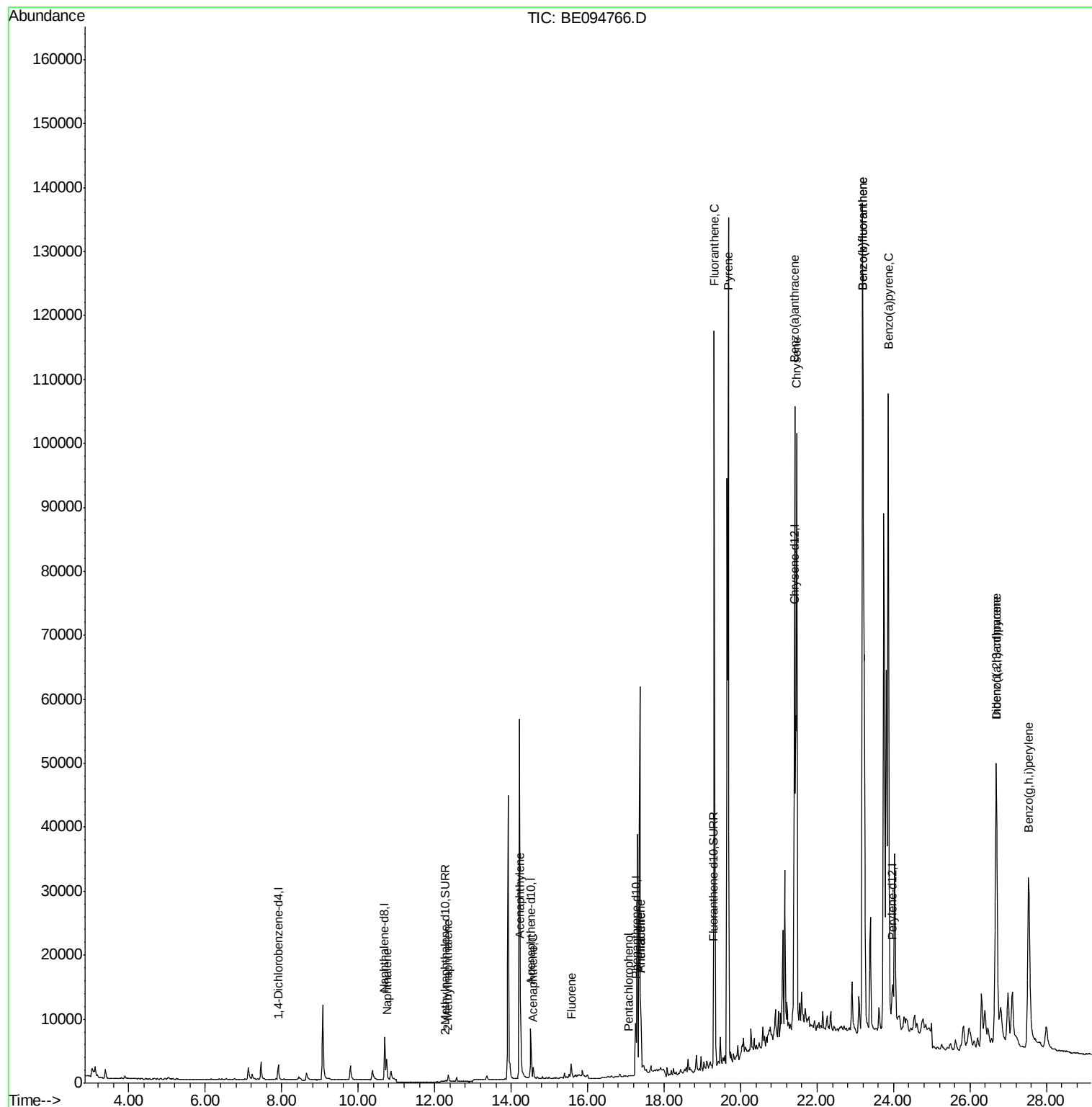
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Naphthalene             | 10.74 | 128  | 5556     | 0.27  | ng/ul# | 94     |
| 5) 2-Methylnaphthalene     | 12.36 | 142  | 1171     | 0.08  | ng/ul  | 97     |
| 7) Acenaphthylene          | 14.24 | 152  | 17209    | 0.80  | ng/ul  | 96     |
| 8) Acenaphthene            | 14.58 | 153  | 1149     | 0.07  | ng/ul# | 92     |
| 9) Fluorene                | 15.57 | 166  | 1708     | 0.10  | ng/ul  | 92     |
| 11) Pentachlorophenol      | 17.07 | 266  | 17       | 0.03  | ng/ul# | 47     |
| 12) Phenanthrene           | 17.39 | 178  | 11056    | 0.39  | ng/ul  | 96     |
| 13) Anthracene             | 17.39 | 178  | 12778    | 0.46  | ng/ul  | 97     |
| 15) Fluoranthene           | 19.31 | 202  | 134808   | 4.16  | ng/ul  | 84     |
| 17) Pyrene                 | 19.68 | 202  | 151524   | 4.57  | ng/ul# | 78     |
| 18) Benzo(a)anthracene     | 21.41 | 228  | 91466    | 2.98  | ng/ul# | 89     |
| 19) Chrysene               | 21.47 | 228  | 114859   | 3.62  | ng/ul  | 95     |
| 21) Benzo(b)fluoranthene   | 23.19 | 252  | 315229   | 10.29 | ng/ul  | 86     |
| 22) Benzo(k)fluoranthene   | 23.19 | 252  | 315229   | 9.60  | ng/ul# | 88     |
| 23) Benzo(a)pyrene         | 23.86 | 252  | 161792   | 5.28  | ng/ul# | 81     |
| 24) Indeno(1,2,3-cd)pyrene | 26.69 | 276  | 100804   | 3.18  | ng/ul# | 74     |
| 25) Dibenzo(a,h)anthracene | 26.68 | 278  | 24135    | 0.90  | ng/ul# | 90     |
| 26) Benzo(g,h,i)perylene   | 27.53 | 276  | 80733    | 3.17  | ng/ul  | 95     |

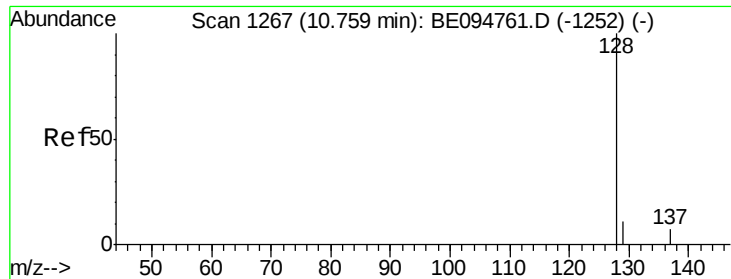
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 07 01:23:46 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.27 ng/ul

RT: 10.74 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

Instrument :

BNA\_E

ClientSampleId :

DUP-7

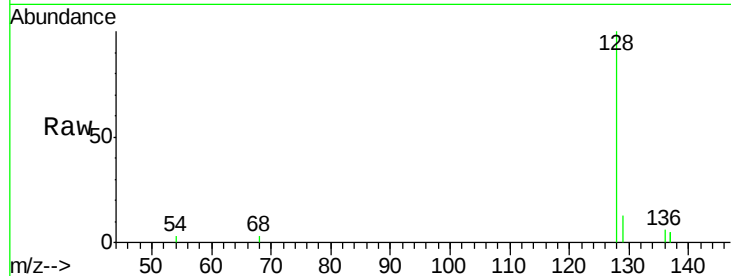
Tot Ion:128 Resp: 5556

Ion Ratio Lower Upper

128 100

129 12.9 11.3 16.9

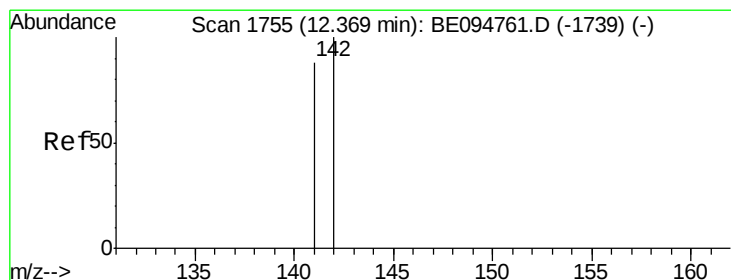
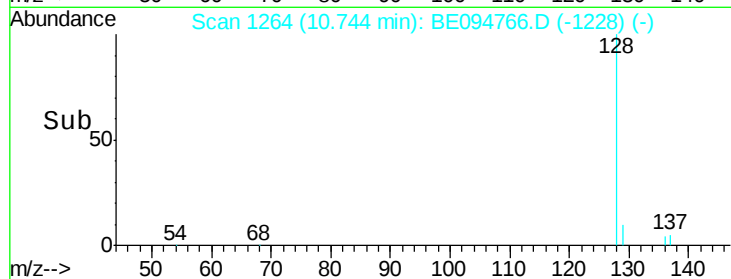
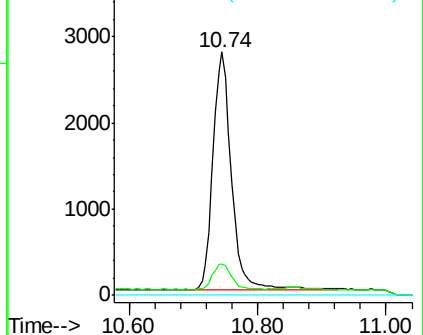
127 0.0 4.0 6.0#



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: 0.08 ng/ul

RT: 12.36 min Scan# 1751

Delta R.T. -0.01 min

Lab File: BE094766.D

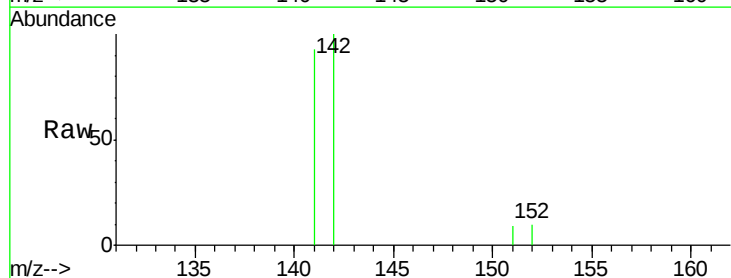
Acq: 6 Nov 2017 22:49

Tgt Ion:142 Resp: 1171

Ion Ratio Lower Upper

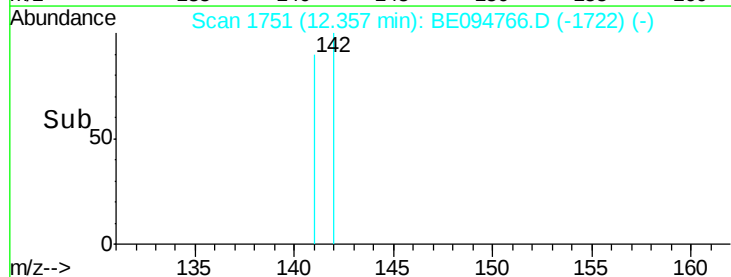
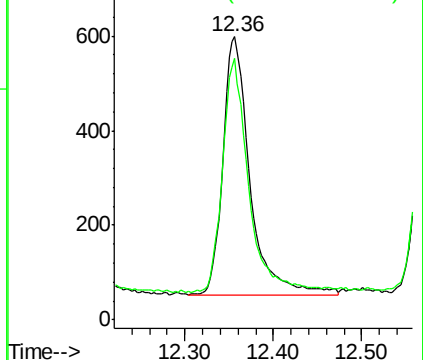
142 100

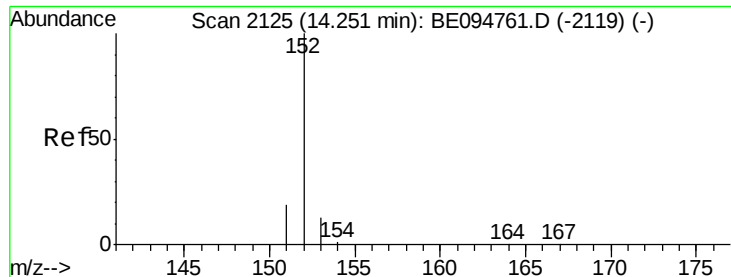
141 88.2 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.80 ng/ul

RT: 14.24 min Scan# 2124

Delta R.T. -0.01 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

Instrument :

BNA\_E

ClientSampled :

DUP-7

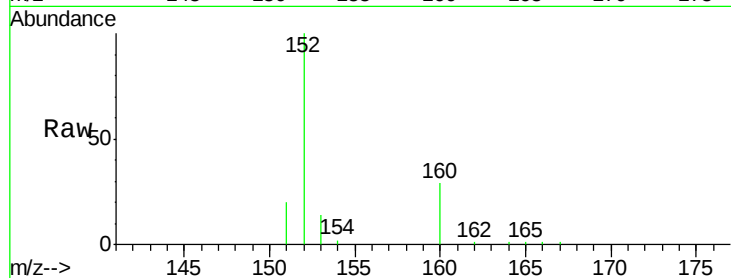
Tot Ion:152 Resp: 17209

Ion Ratio Lower Upper

152 100

151 19.9 17.1 25.7

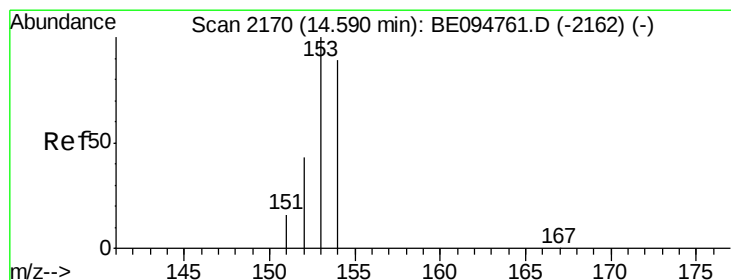
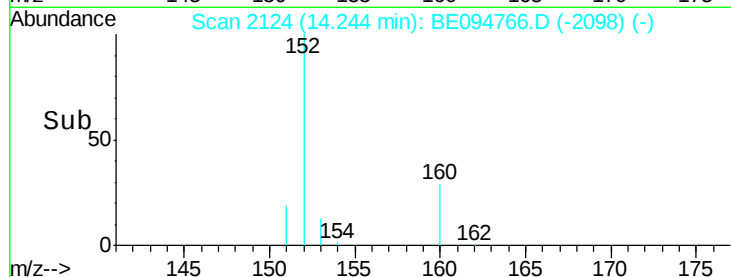
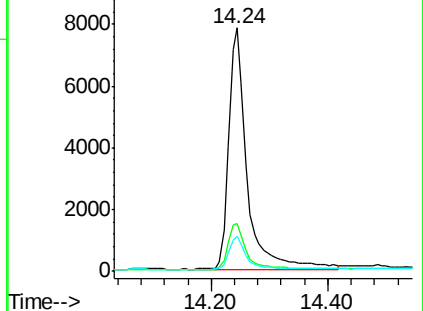
153 14.2 12.8 19.2



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: 0.07 ng/ul

RT: 14.58 min Scan# 2168

Delta R.T. -0.01 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

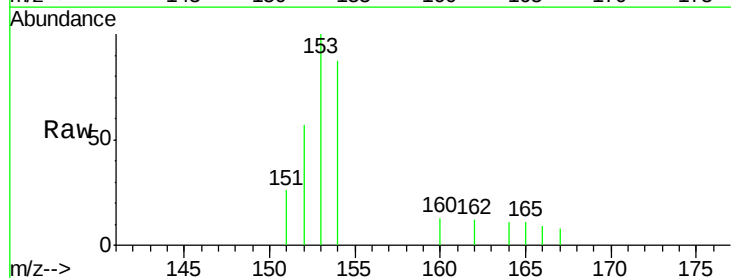
Tgt Ion:153 Resp: 1149

Ion Ratio Lower Upper

153 100

152 57.5 36.0 54.0#

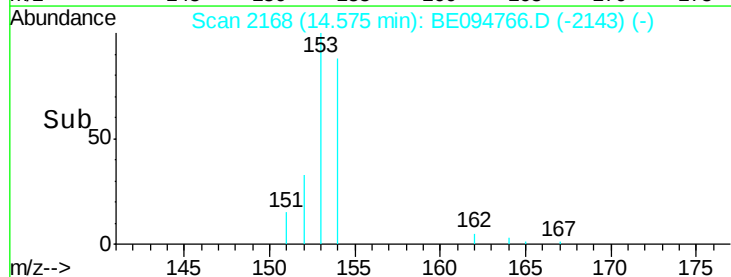
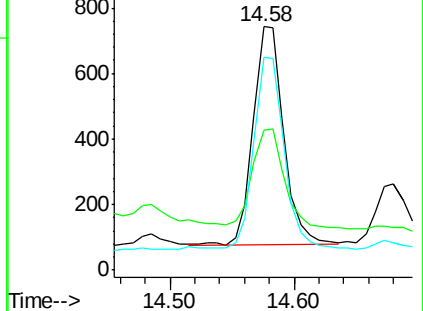
154 87.5 72.0 108.0

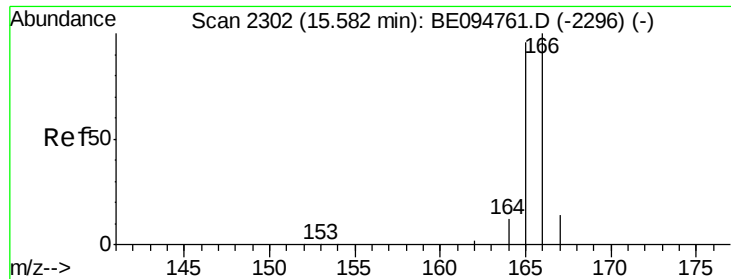


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

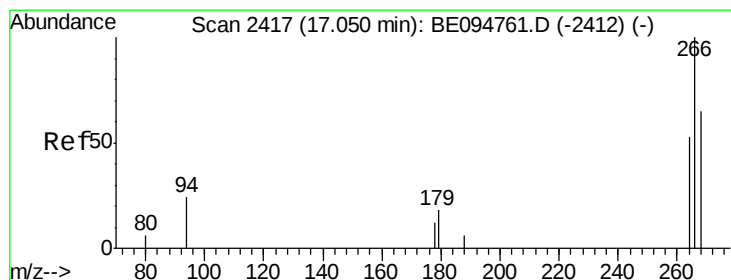
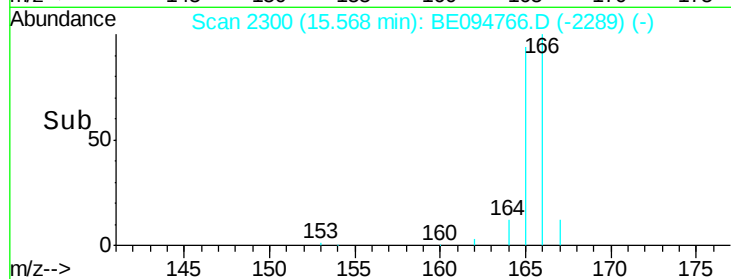
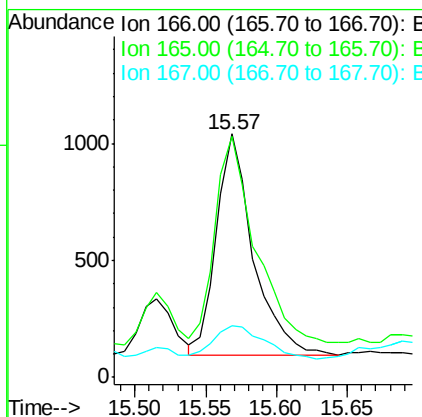
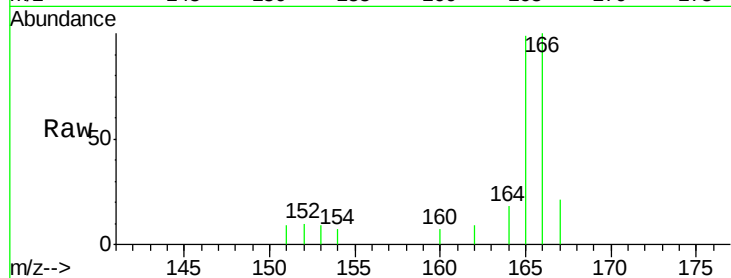




#9  
**Fluorene**  
 Concen: 0.10 ng/ul  
 RT: 15.57 min Scan# 2300  
 Delta R.T. -0.01 min  
 Lab File: BE094766.D  
 Acq: 6 Nov 2017 22:49

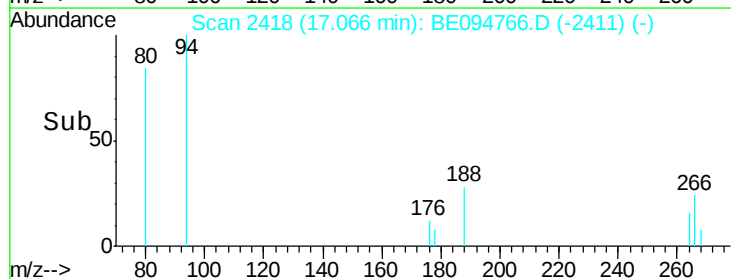
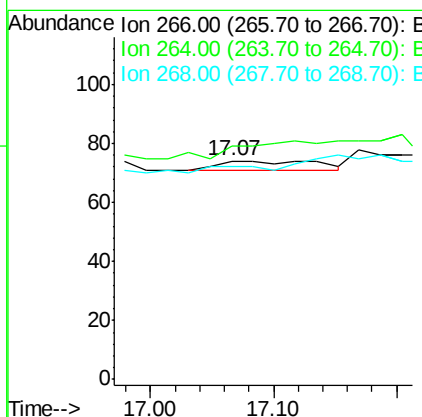
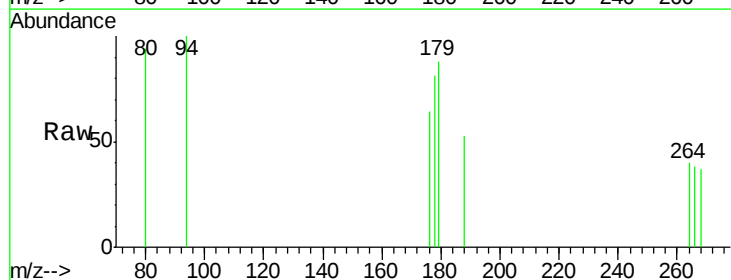
Instrument :  
 BNA\_E  
 ClientSampleId :  
 DUP-7

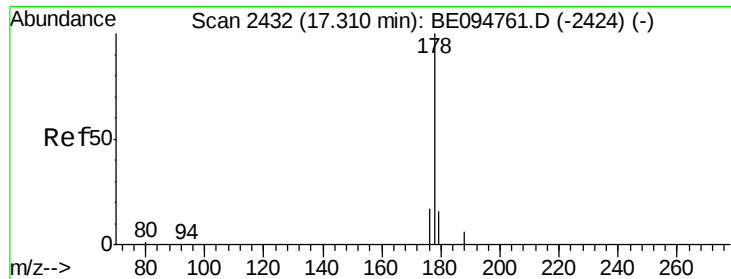
Tot Ion:166 Resp: 1708  
 Ion Ratio Lower Upper  
 166 100  
 165 99.1 73.4 110.2  
 167 21.3 14.6 22.0



#11  
**Pentachlorophenol**  
 Concen: 0.03 ng/ul  
 RT: 17.07 min Scan# 2418  
 Delta R.T. 0.02 min  
 Lab File: BE094766.D  
 Acq: 6 Nov 2017 22:49

Tgt Ion:266 Resp: 17  
 Ion Ratio Lower Upper  
 266 100  
 264 0.0 47.9 71.9#  
 268 41.2 49.8 74.8#





#12

Phenanthrene

Concen: 0.39 ng/ul

RT: 17.39 min Scan# 2437

Delta R.T. 0.08 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

Instrument :

BNA\_E

ClientSampleId :

DUP-7

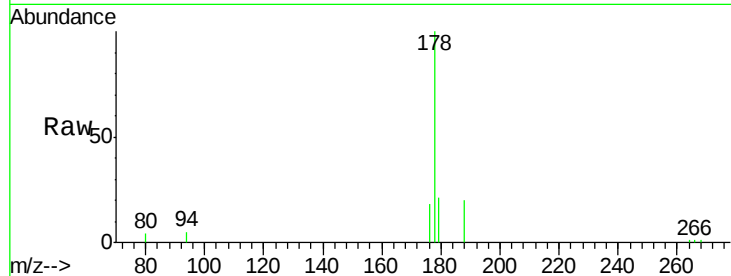
Tot Ion:178 Resp: 11056

Ion Ratio Lower Upper

178 100

179 20.5 18.4 27.6

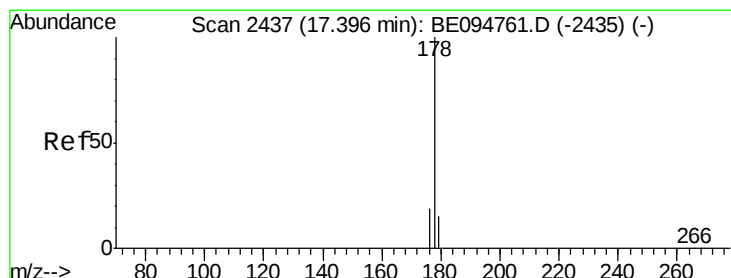
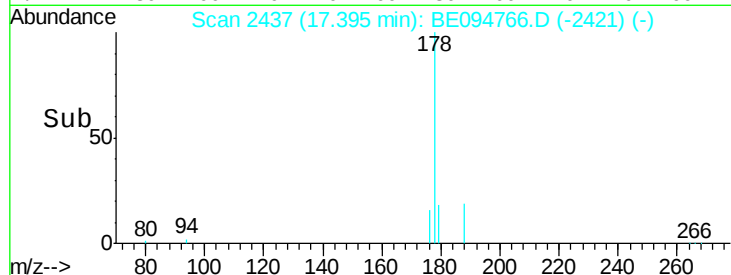
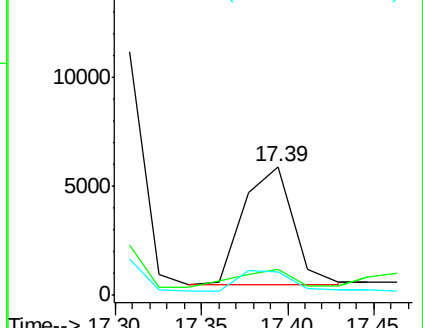
176 17.8 13.6 20.4



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: 0.46 ng/ul

RT: 17.39 min Scan# 2437

Delta R.T. -0.00 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

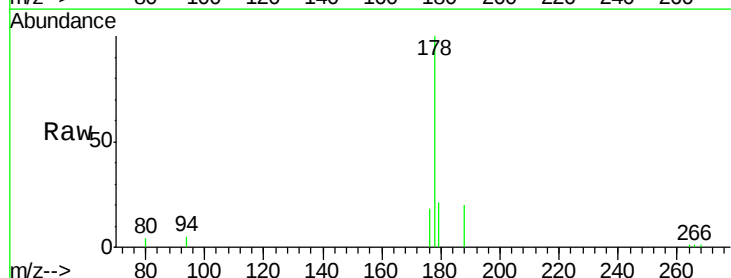
Tgt Ion:178 Resp: 12778

Ion Ratio Lower Upper

178 100

179 20.5 18.1 27.1

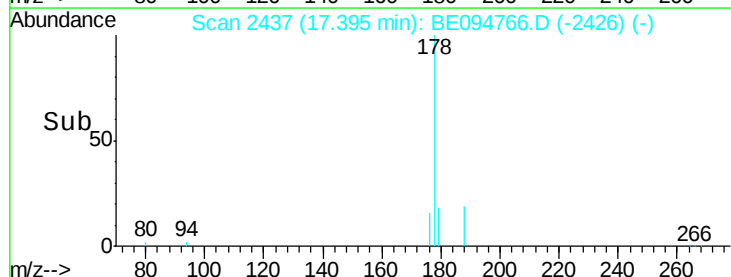
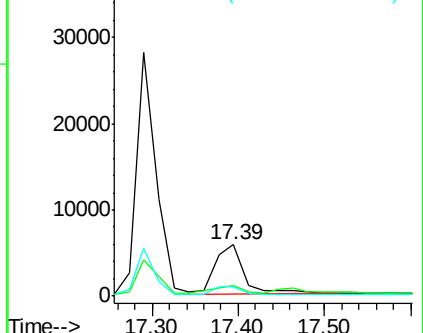
176 17.8 14.7 22.1

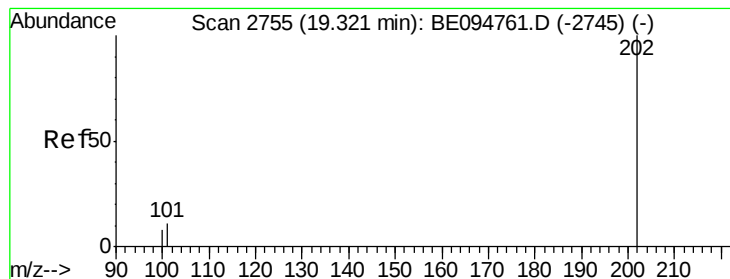


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 4.16 ng/ul

RT: 19.31 min Scan# 2754

Delta R.T. -0.01 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

Instrument :

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ClientSampleId :

DUP-7

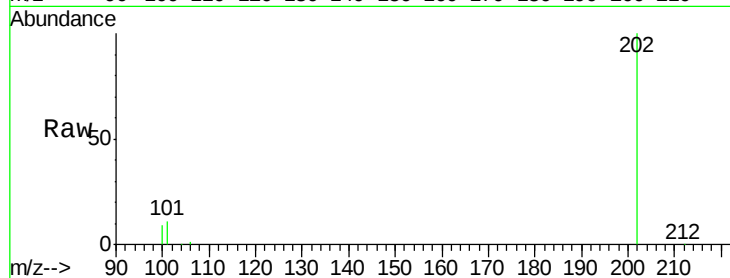
Tot Ion:202 Resp: 134808

Ion Ratio Lower Upper

202 100

101 10.9 0.0 30.3

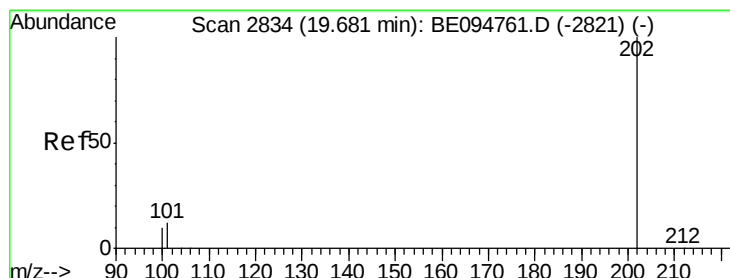
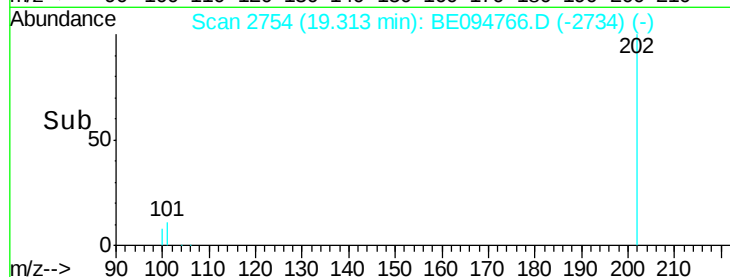
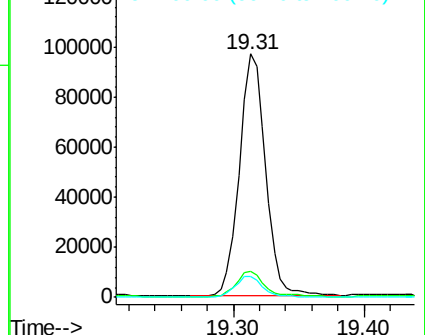
100 8.6 0.0 39.5



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: 4.57 ng/ul

RT: 19.68 min Scan# 2834

Delta R.T. -0.00 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

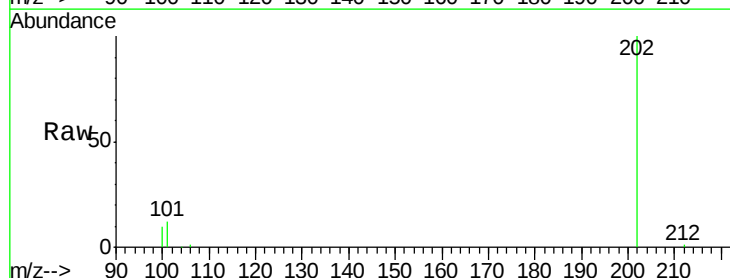
Tgt Ion:202 Resp: 151524

Ion Ratio Lower Upper

202 100

101 12.0 18.2 27.4#

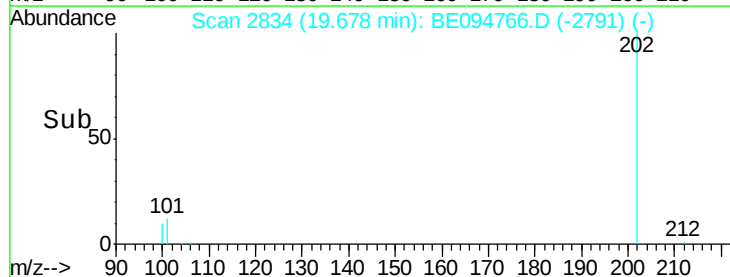
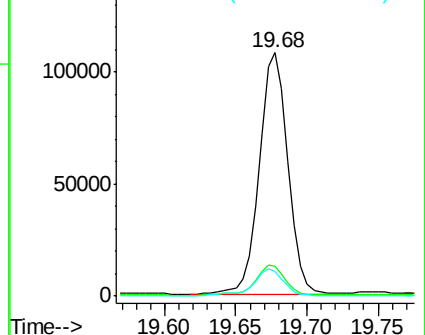
100 10.0 15.6 23.4#

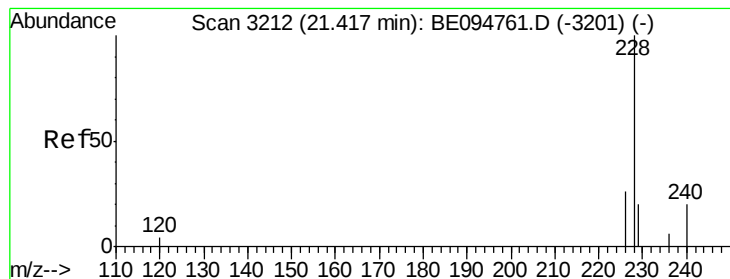


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 2.98 ng/ul

RT: 21.41 min Scan# 3212

Delta R.T. -0.00 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

Instrument :

BNA\_E

ClientSampleId :

DUP-7

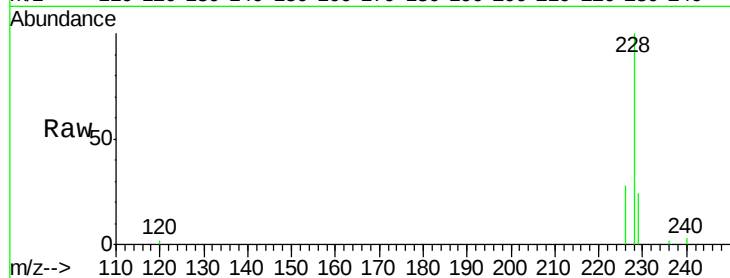
Tot Ion:228 Resp: 91466

Ion Ratio Lower Upper

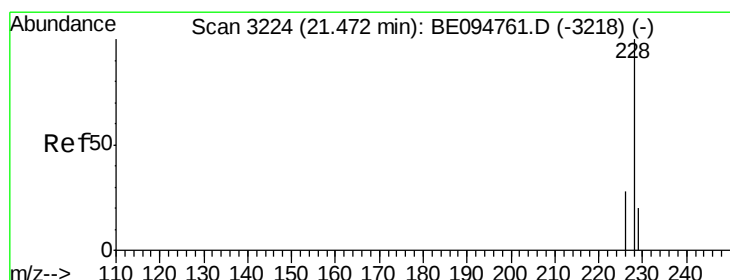
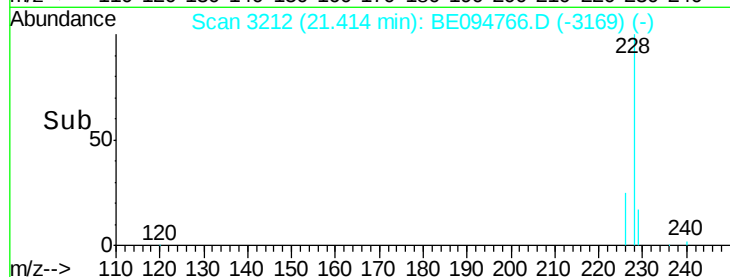
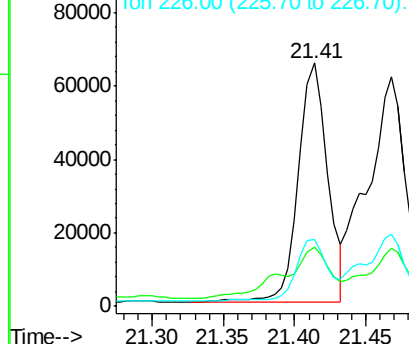
228 100

229 24.1 22.8 34.2

226 27.8 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: 3.62 ng/ul

RT: 21.47 min Scan# 3224

Delta R.T. -0.00 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

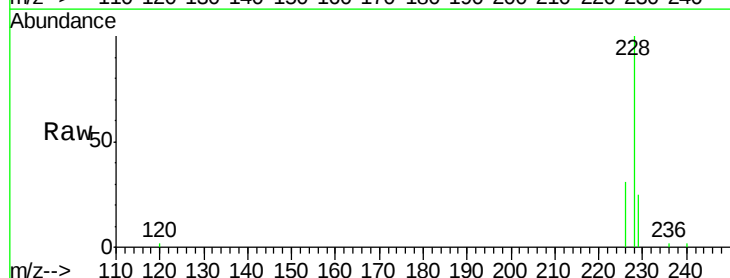
Tgt Ion:228 Resp: 114859

Ion Ratio Lower Upper

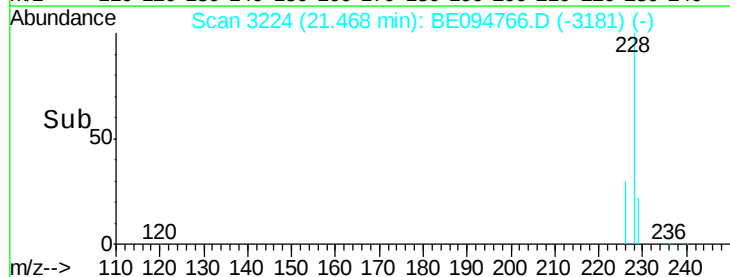
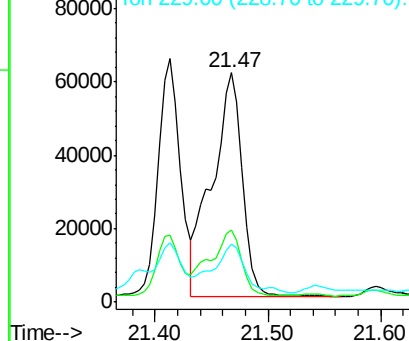
228 100

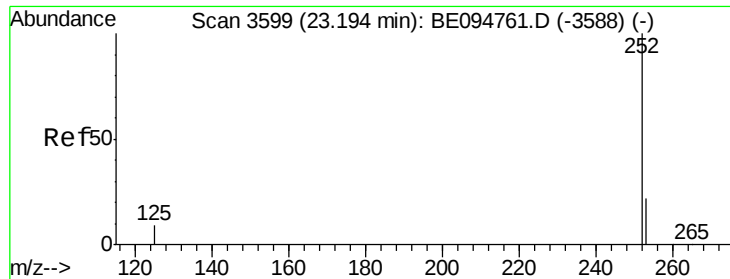
226 31.4 23.4 35.0

229 25.4 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

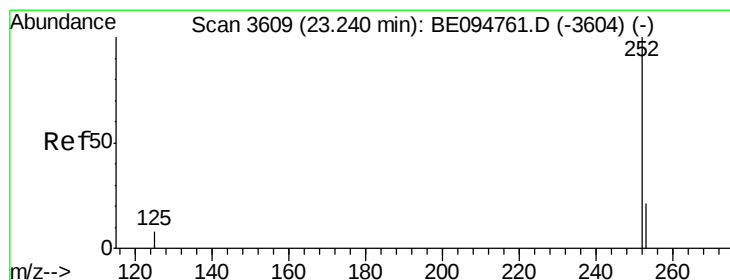
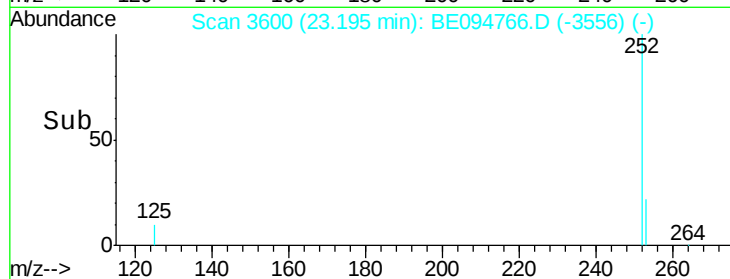
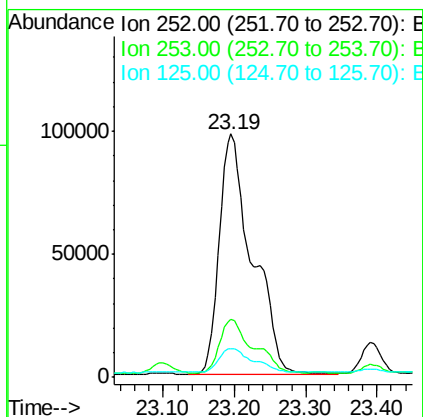
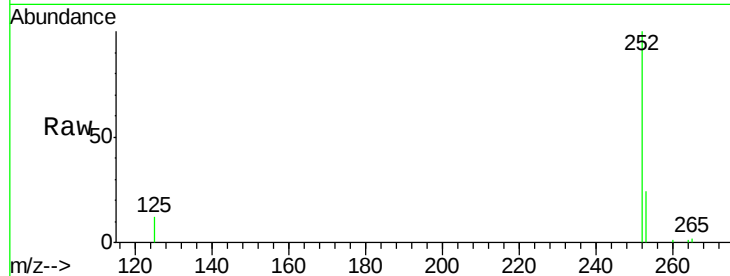




#21  
Benzo(b)fluoranthene  
Concen: 10.29 ng/ul  
RT: 23.19 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: BE094766.D  
Acq: 6 Nov 2017 22:49

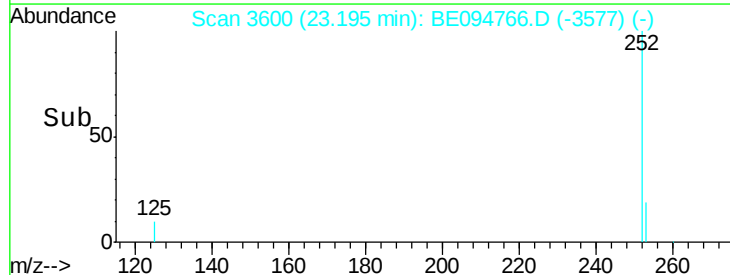
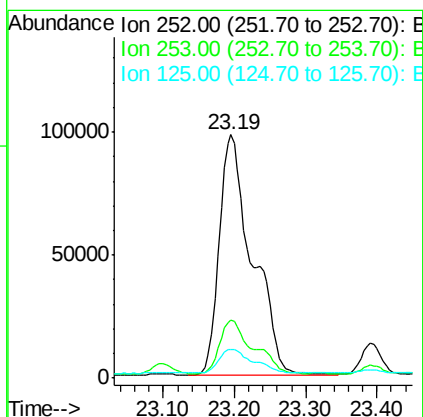
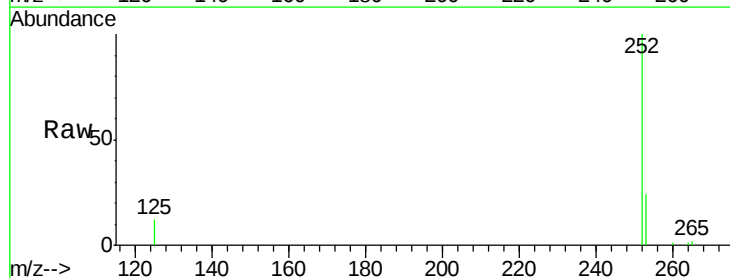
Instrument :  
BNA\_E  
ClientSampleId :  
DUP-7

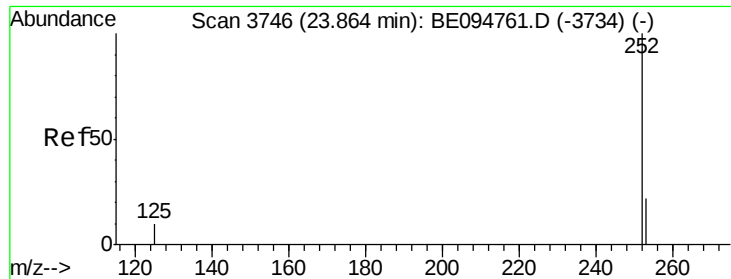
Tot Ion:252 Resp: 315229  
Ion Ratio Lower Upper  
252 100  
253 23.7 0.0 64.2  
125 12.0 0.0 35.0



#22  
Benzo(k)fluoranthene  
Concen: 9.60 ng/ul  
RT: 23.19 min Scan# 3600  
Delta R.T. -0.04 min  
Lab File: BE094766.D  
Acq: 6 Nov 2017 22:49

Tgt Ion:252 Resp: 315229  
Ion Ratio Lower Upper  
252 100  
253 23.7 24.5 36.7#  
125 12.0 13.7 20.5#





#23

Benzo(a)pyrene

Concen: 5.28 ng/ul

RT: 23.86 min Scan# 3747

Delta R.T. 0.00 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

Instrument :

BNA\_E

ClientSampleId :

DUP-7

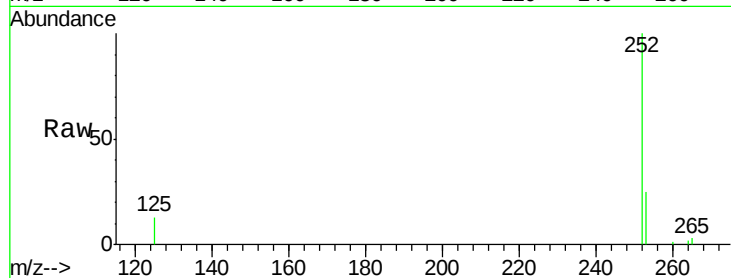
Tot Ion:252 Resp: 161792

Ion Ratio Lower Upper

252 100

253 24.7 28.5 42.7#

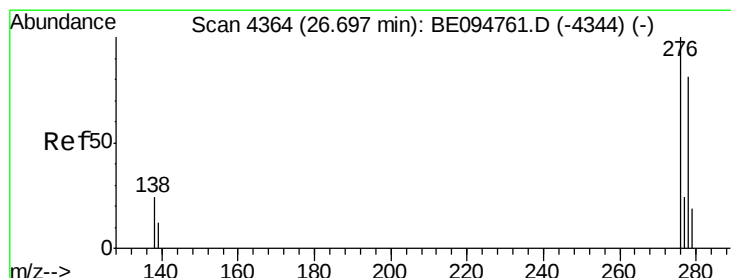
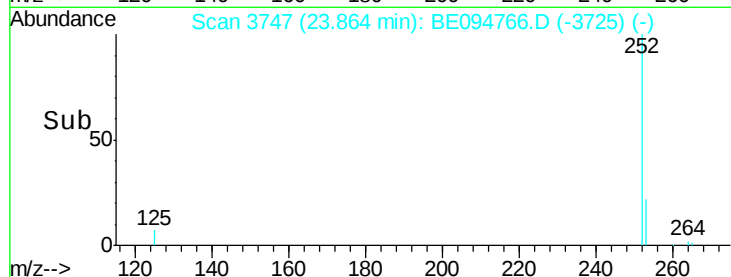
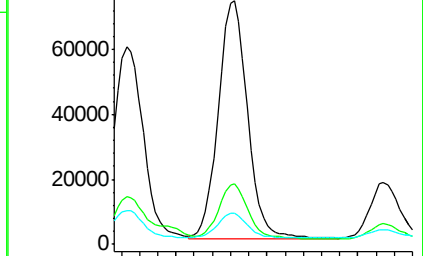
125 12.6 18.1 27.1#



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: 3.18 ng/ul

RT: 26.69 min Scan# 4364

Delta R.T. -0.01 min

Lab File: BE094766.D

Acq: 6 Nov 2017 22:49

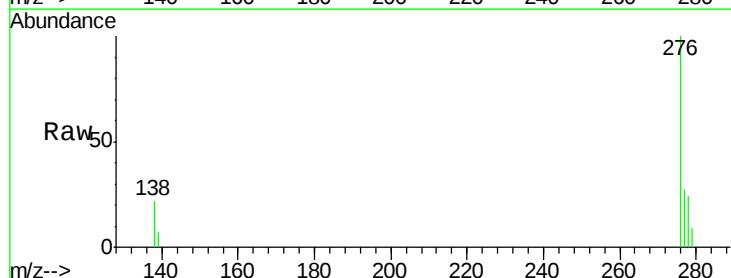
Tgt Ion:276 Resp: 100804

Ion Ratio Lower Upper

276 100

138 20.4 28.0 42.0#

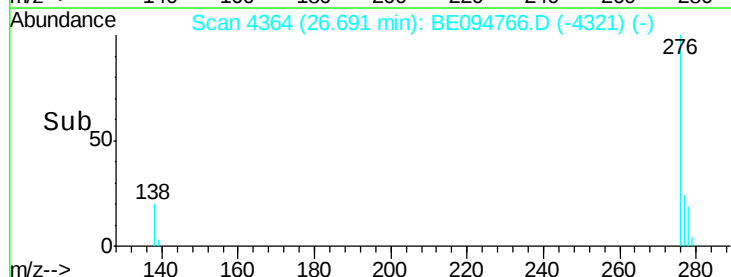
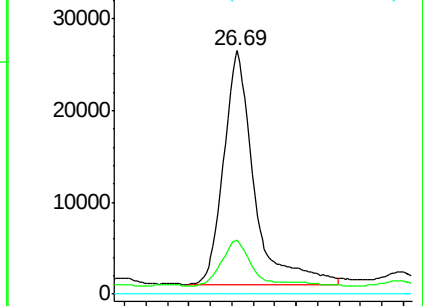
227 0.0 8.0 12.0#

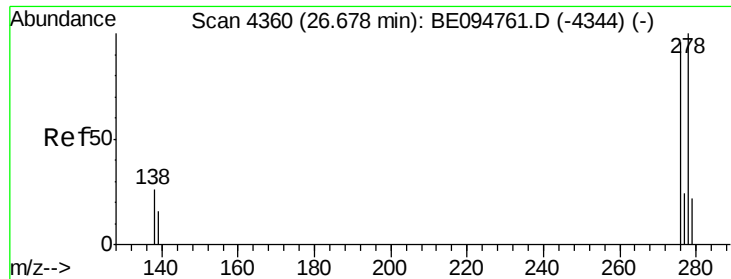


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

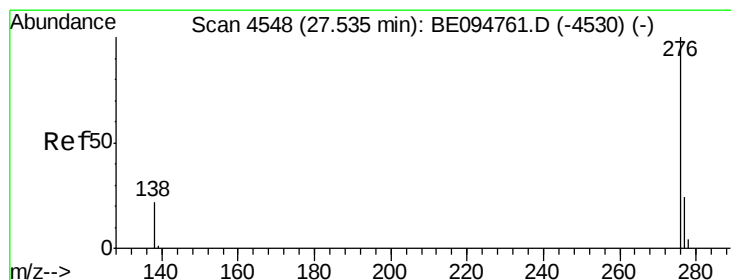
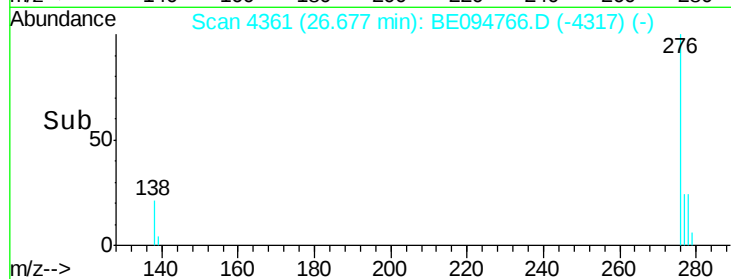
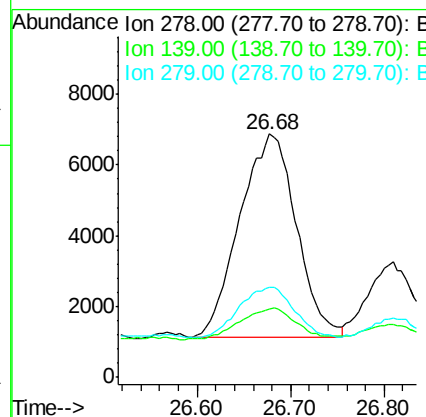
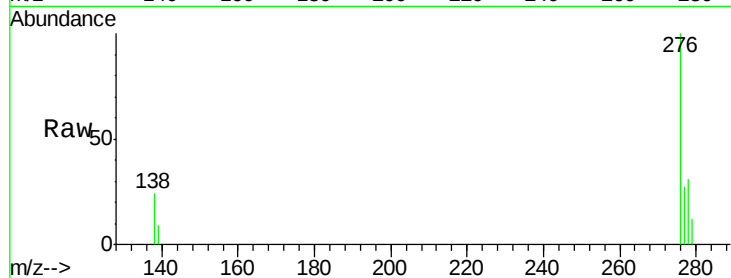




#25  
Dibenzo(a,h)anthracene  
Concen: 0.90 ng/ul  
RT: 26.68 min Scan# 4361  
Delta R.T. -0.00 min  
Lab File: BE094766.D  
Acq: 6 Nov 2017 22:49

Instrument :  
BNA\_E  
ClientSampleId :  
DUP-7

Tot Ion:278 Resp: 24135  
Ion Ratio Lower Upper  
278 100  
139 28.2 17.4 26.0#  
279 37.1 25.9 38.9



#26  
Benzo(g,h,i)perylene  
Concen: 3.17 ng/ul  
RT: 27.53 min Scan# 4549  
Delta R.T. -0.00 min  
Lab File: BE094766.D  
Acq: 6 Nov 2017 22:49

Tgt Ion:276 Resp: 80733  
Ion Ratio Lower Upper  
276 100  
138 23.9 21.8 32.8  
277 26.8 20.5 30.7

