

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE083116\  
 Data File : BE092316.D  
 Acq On : 31 Aug 2016 13:56  
 Operator : UM/SJ  
 Sample : MDL-03-S  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-03-S

Quant Time: Aug 31 15:31:27 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE082516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 26 11:18:03 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.71  | 152  | 6035     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.49 | 136  | 31971    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.33 | 164  | 18681    | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.07 | 188  | 40127    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.24 | 240  | 43577    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.63 | 264  | 42367    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.08 | 152  | 11998    | 0.28 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.09 | 212  | 28265    | 0.28 | ng/ul | 0.00     |

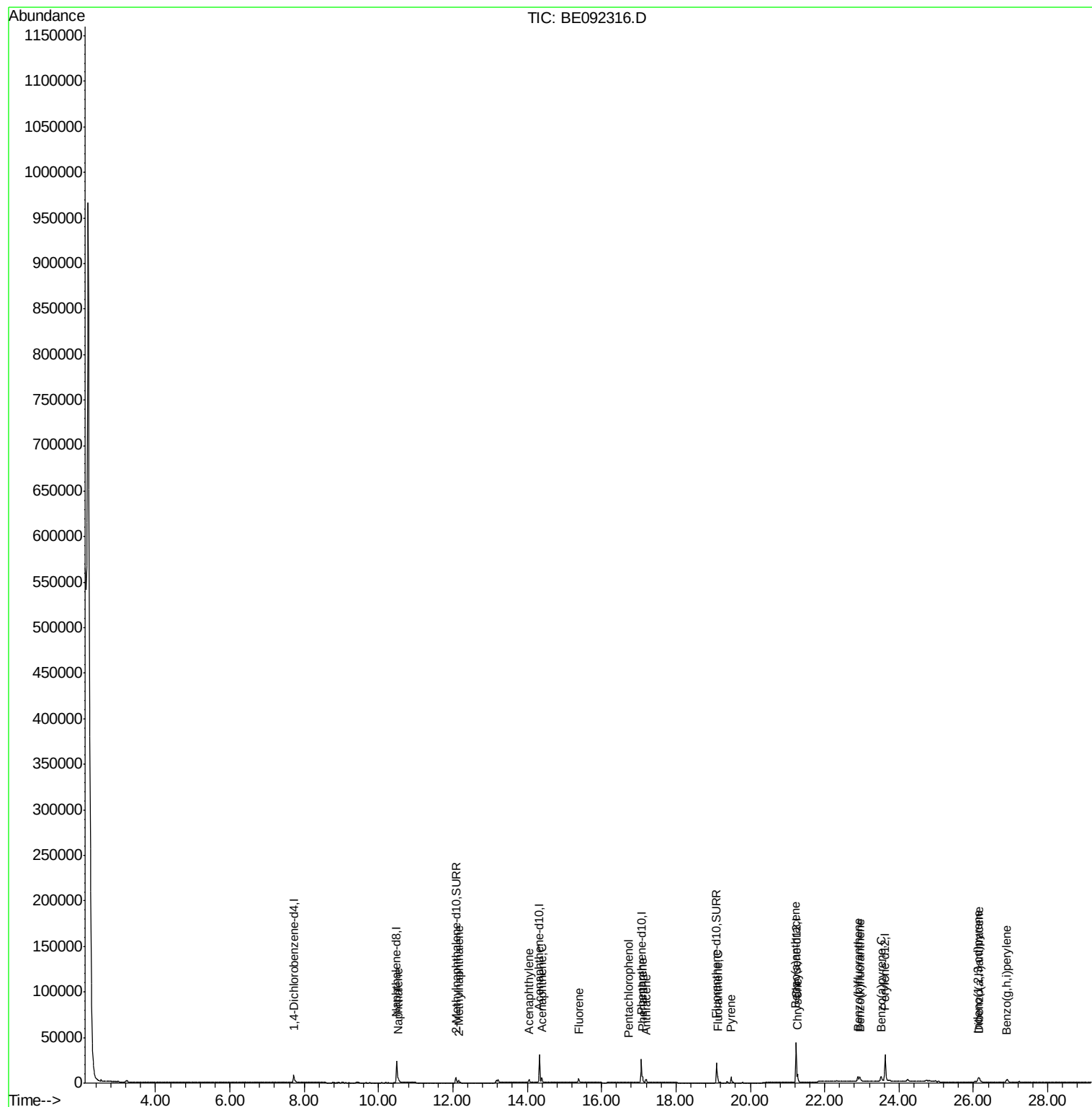
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.54 | 128  | 4931     | 0.07 | ng/ul  | 94     |
| 5) 2-Methylnaphthalene     | 12.15 | 142  | 3299     | 0.07 | ng/ul  | 97     |
| 7) Acenaphthylene          | 14.05 | 152  | 5446     | 0.07 | ng/ul  | 98     |
| 8) Acenaphthene            | 14.39 | 153  | 3698     | 0.07 | ng/ul  | 98     |
| 9) Fluorene                | 15.38 | 166  | 4085     | 0.06 | ng/ul  | 99     |
| 11) Pentachlorophenol      | 16.74 | 266  | 319      | 0.07 | ng/ul  | 97     |
| 12) Phenanthrene           | 17.10 | 178  | 6837     | 0.07 | ng/ul  | 98     |
| 13) Anthracene             | 17.20 | 178  | 6340     | 0.07 | ng/ul  | 95     |
| 15) Fluoranthene           | 19.12 | 202  | 7843     | 0.07 | ng/ul  | 95     |
| 17) Pyrene                 | 19.49 | 202  | 8236     | 0.08 | ng/ul# | 100    |
| 18) Benzo(a)anthracene     | 21.22 | 228  | 7555     | 0.08 | ng/ul  | 95     |
| 19) Chrysene               | 21.27 | 228  | 8036     | 0.07 | ng/ul  | 95     |
| 21) Benzo(b)fluoranthene   | 22.90 | 252  | 7323     | 0.07 | ng/ul# | 76     |
| 22) Benzo(k)fluoranthene   | 22.94 | 252  | 8082     | 0.07 | ng/ul# | 70     |
| 23) Benzo(a)pyrene         | 23.52 | 252  | 7338     | 0.07 | ng/ul# | 63     |
| 24) Indeno(1,2,3-cd)pyrene | 26.14 | 276  | 8304     | 0.07 | ng/ul# | 100    |
| 25) Dibenzo(a,h)anthracene | 26.15 | 278  | 6658     | 0.07 | ng/ul# | 76     |
| 26) Benzo(g,h,i)perylene   | 26.90 | 276  | 7208     | 0.07 | ng/ul# | 86     |

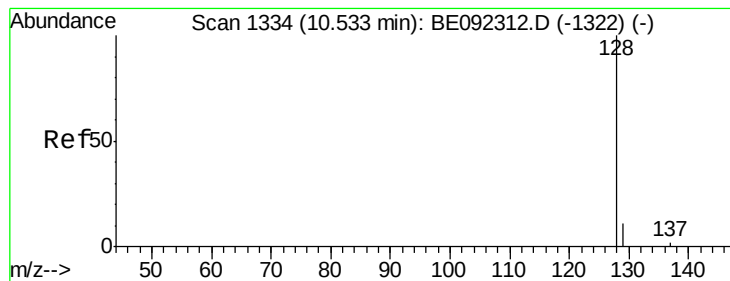
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE083116\  
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_E  
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MDL-03-S

Quant Time: Aug 31 15:31:27 2016  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE082516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 26 11:18:03 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.07 ng/ul

RT: 10.54 min Scan# 1335

Delta R.T. -0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

Instrument :

BNA\_E

ClientSampleId :

MDL-03-S

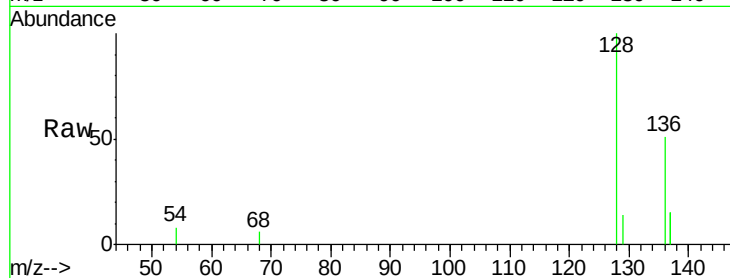
Tgt Ion:128 Resp: 4931

Ion Ratio Lower Upper

128 100

129 14.3 9.7 14.5

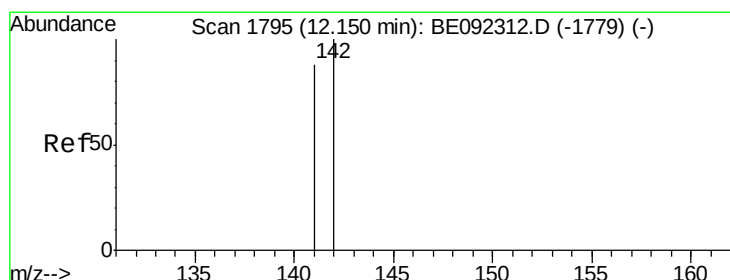
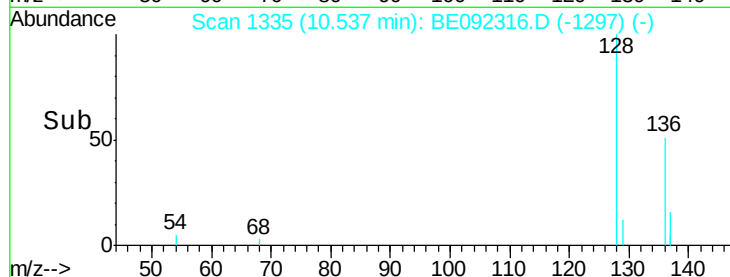
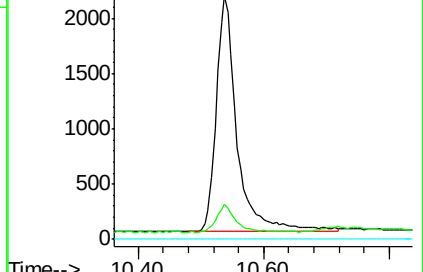
127 0.0 0.0 0.0



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: 0.07 ng/ul

RT: 12.15 min Scan# 1796

Delta R.T. -0.01 min

Lab File: BE092316.D

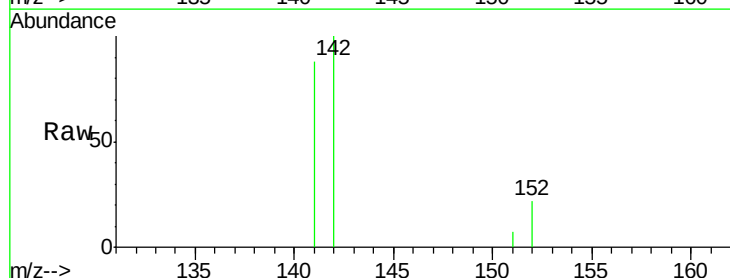
Acq: 31 Aug 2016 13:56

Tgt Ion:142 Resp: 3299

Ion Ratio Lower Upper

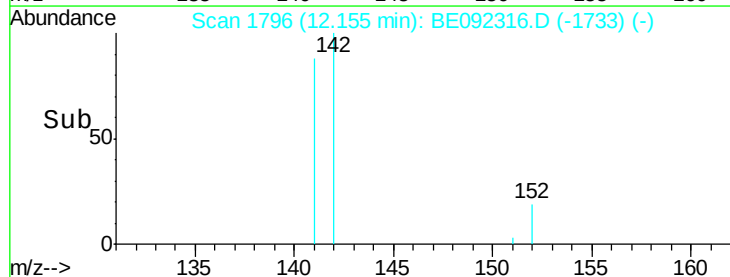
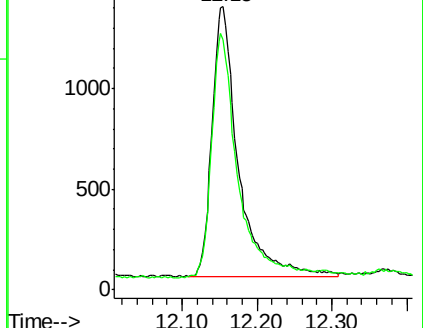
142 100

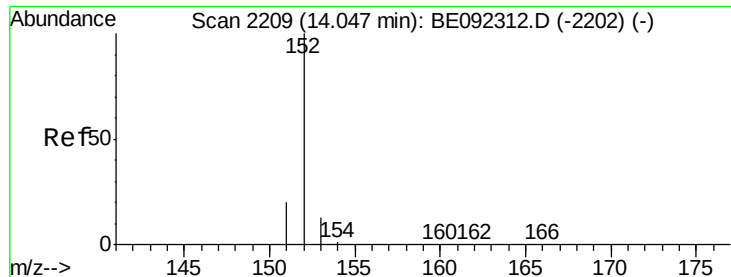
141 92.7 71.9 107.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.07 ng/ul

RT: 14.05 min Scan# 2209

Delta R.T. -0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

Instrument :

BNA\_E

ClientSampleId :

MDL-03-S

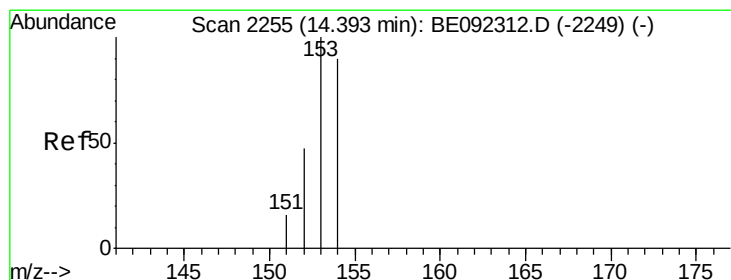
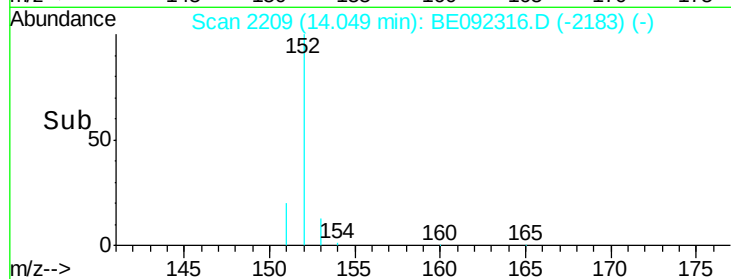
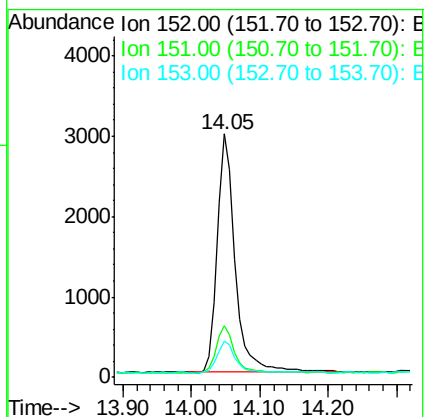
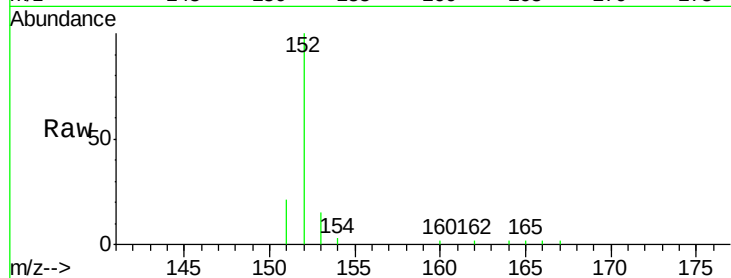
Tgt Ion:152 Resp: 5446

Ion Ratio Lower Upper

152 100

151 21.0 16.2 24.2

153 15.1 11.2 16.8



#8

Acenaphthene

Concen: 0.07 ng/ul

RT: 14.39 min Scan# 2254

Delta R.T. -0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

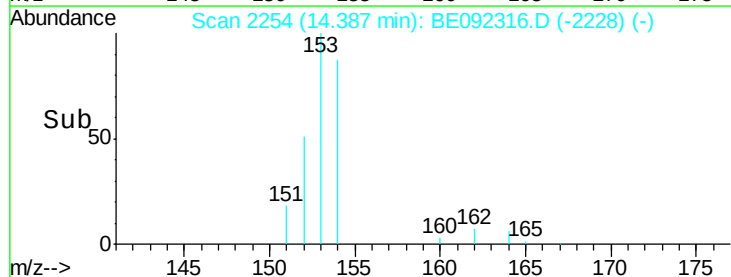
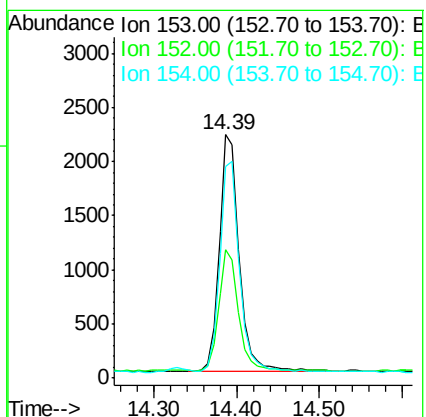
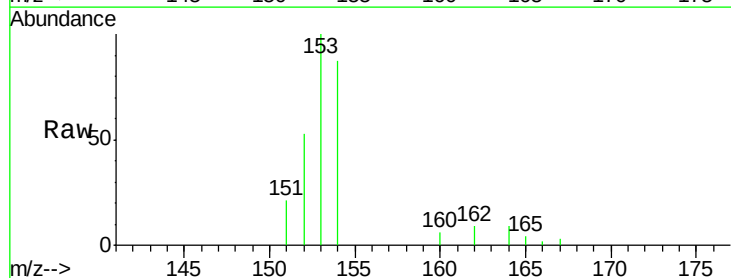
Tgt Ion:153 Resp: 3698

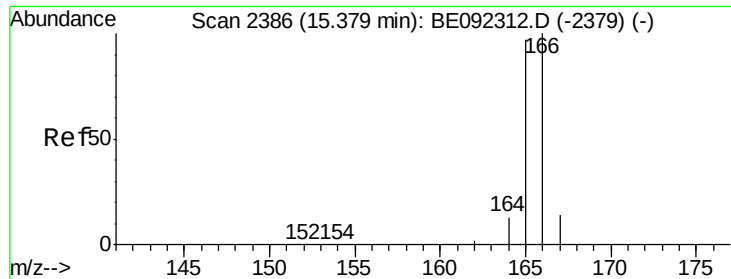
Ion Ratio Lower Upper

153 100

152 52.9 40.9 61.3

154 87.0 70.6 106.0

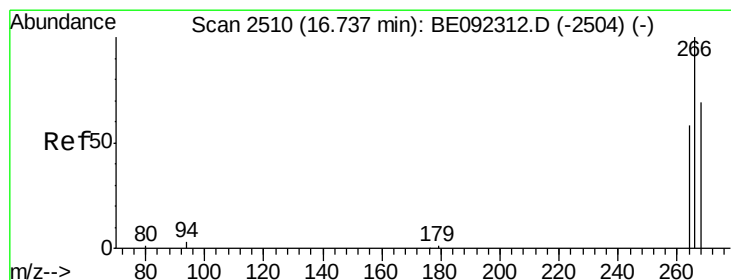
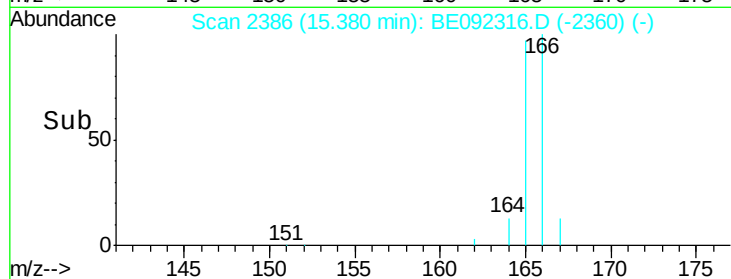
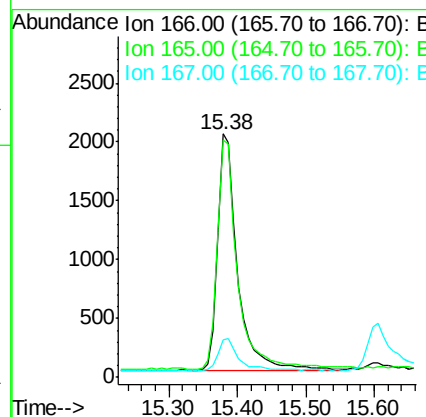
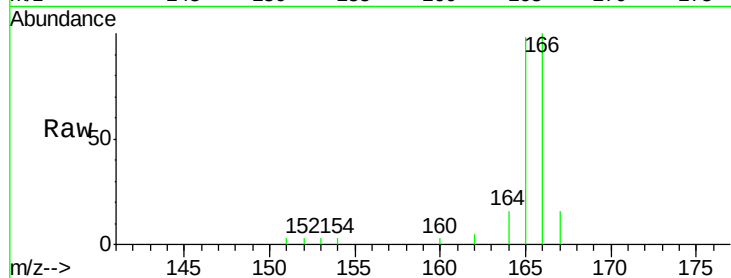




#9  
**Fluorene**  
 Concen: 0.06 ng/ul  
 RT: 15.38 min Scan# 2386  
 Delta R.T. -0.00 min  
 Lab File: BE092316.D  
 Acq: 31 Aug 2016 13:56

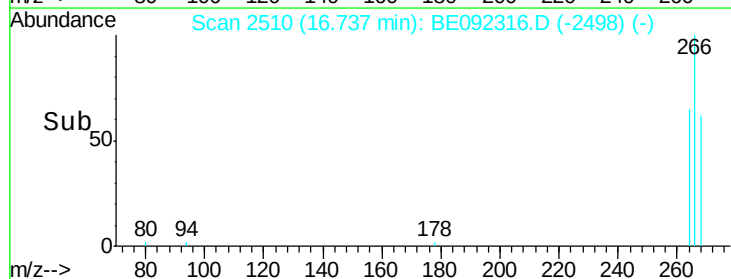
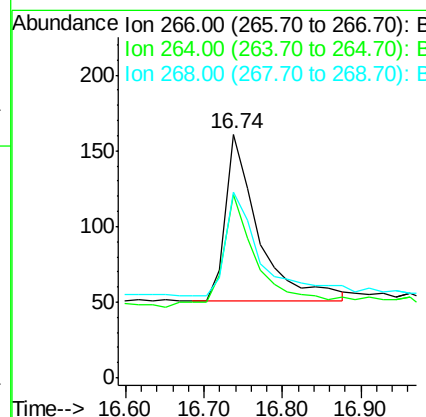
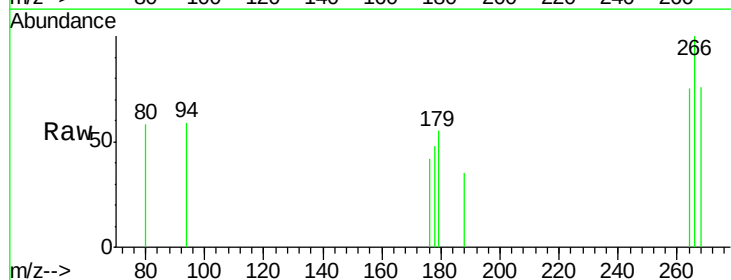
Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-03-S

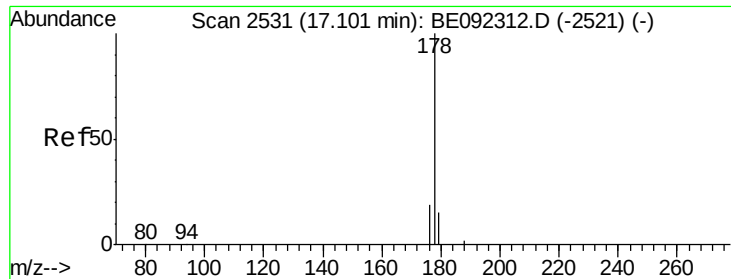
Tgt Ion:166 Resp: 4085  
 Ion Ratio Lower Upper  
 166 100  
 165 97.6 78.7 118.1  
 167 15.6 11.5 17.3



#11  
**Pentachlorophenol**  
 Concen: 0.07 ng/ul  
 RT: 16.74 min Scan# 2510  
 Delta R.T. 0.00 min  
 Lab File: BE092316.D  
 Acq: 31 Aug 2016 13:56

Tgt Ion:266 Resp: 319  
 Ion Ratio Lower Upper  
 266 100  
 264 70.8 53.0 79.6  
 268 64.9 52.3 78.5





#12

Phenanthrene

Concen: 0.07 ng/ul

RT: 17.10 min Scan# 2531

Delta R.T. 0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

Instrument :

BNA\_E

ClientSampleId :

MDL-03-S

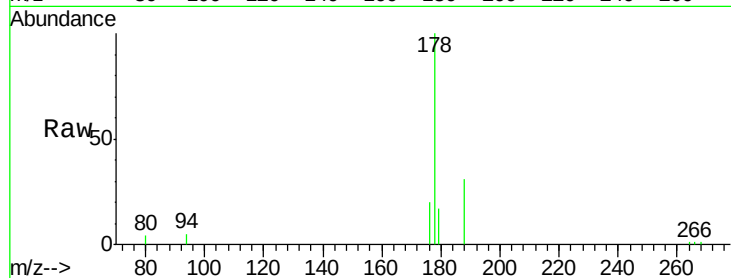
Tgt Ion:178 Resp: 6837

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

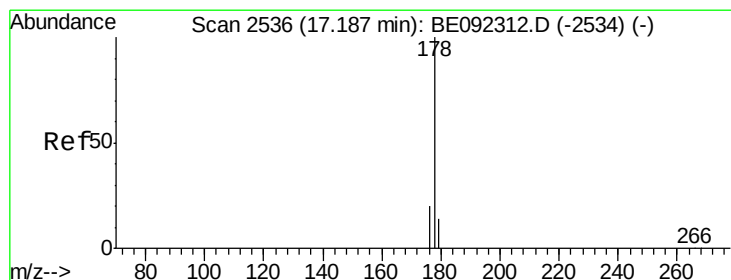
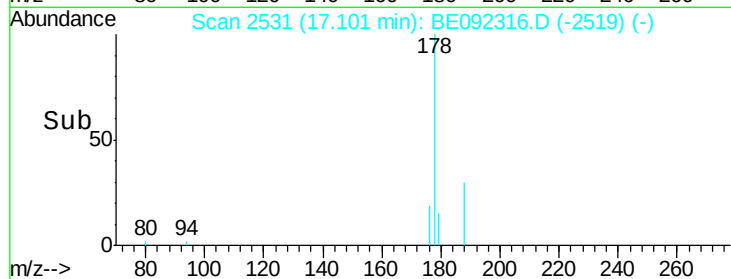
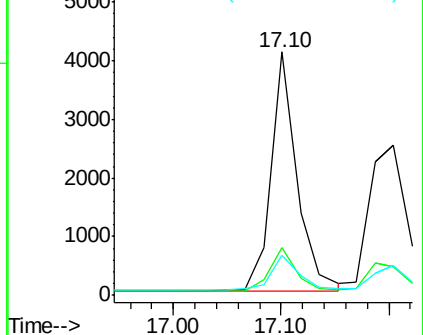
179 16.6 11.9 17.9



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



#13

Anthracene

Concen: 0.07 ng/ul

RT: 17.20 min Scan# 2537

Delta R.T. 0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

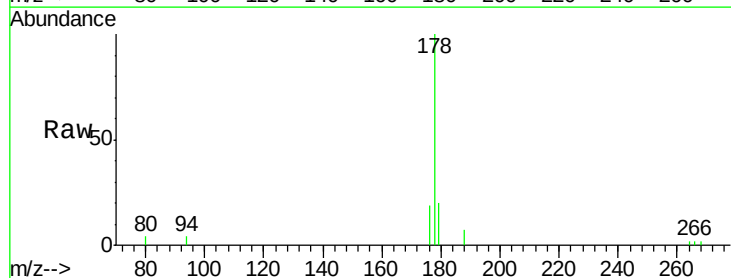
Tgt Ion:178 Resp: 6340

Ion Ratio Lower Upper

178 100

176 18.9 14.0 21.0

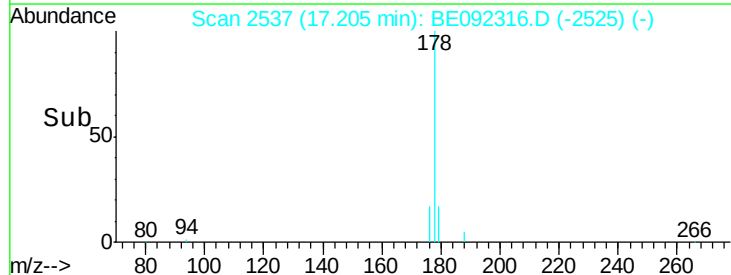
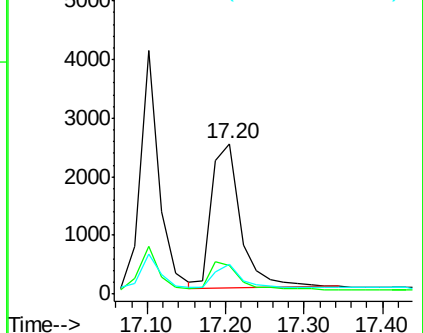
179 19.9 13.6 20.4

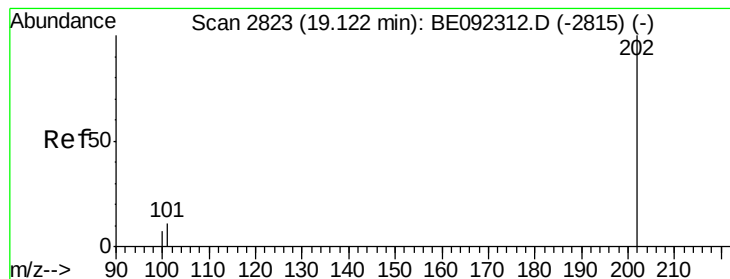


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.07 ng/ul

RT: 19.12 min Scan# 2823

Delta R.T. -0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

Instrument :

BNA\_E

ClientSampleId :

MDL-03-S

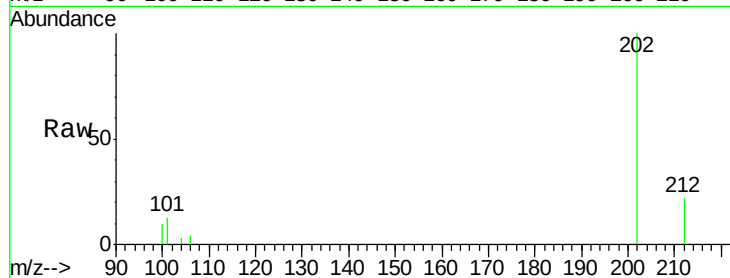
Tgt Ion:202 Resp: 7843

Ion Ratio Lower Upper

202 100

101 12.8 0.0 30.8

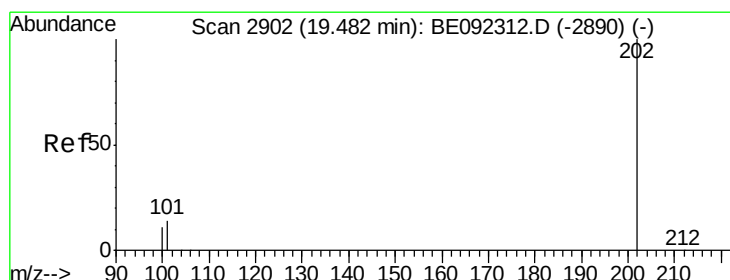
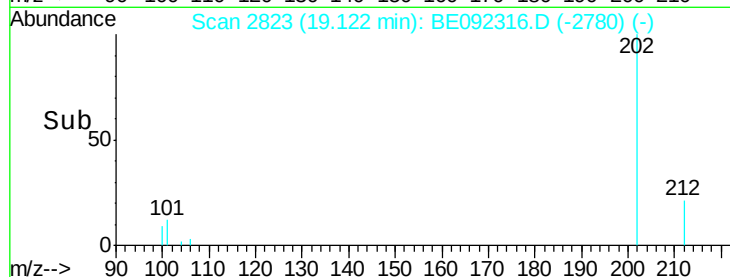
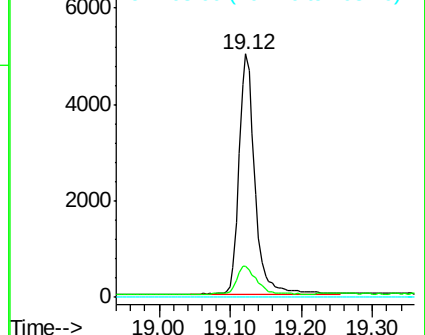
203 0.0 0.0 20.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#17

Pyrene

Concen: 0.08 ng/ul

RT: 19.49 min Scan# 2903

Delta R.T. 0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

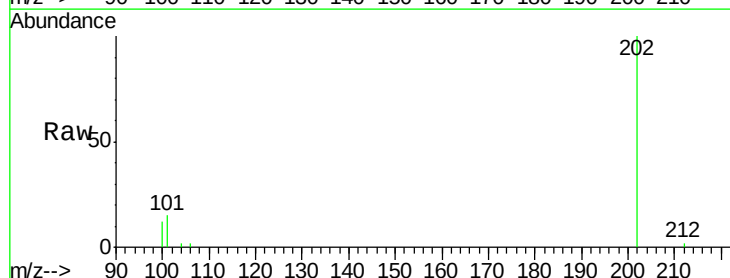
Tgt Ion:202 Resp: 8236

Ion Ratio Lower Upper

202 100

101 14.8 0.0 0.0#

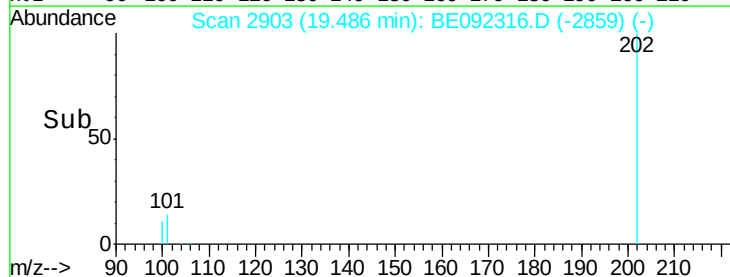
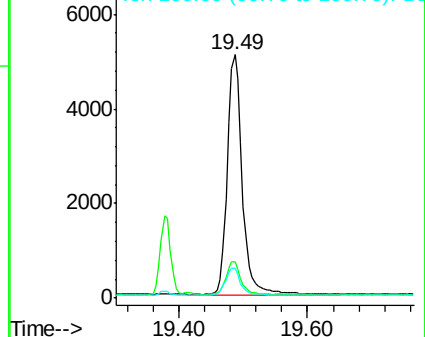
100 12.1 0.0 0.0#

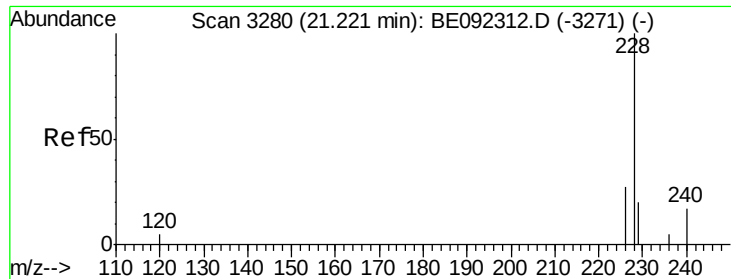


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 0.08 ng/ul

RT: 21.22 min Scan# 3280

Delta R.T. -0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

Instrument :

BNA\_E

ClientSampleId :

MDL-03-S

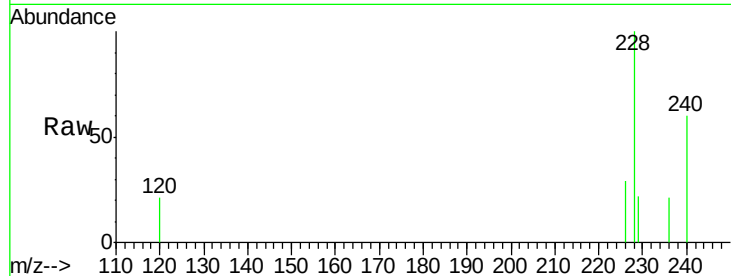
Tgt Ion:228 Resp: 7555

Ion Ratio Lower Upper

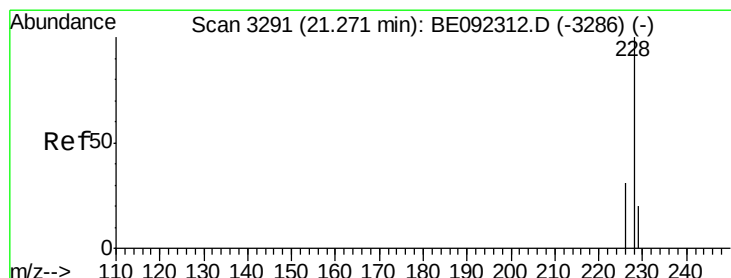
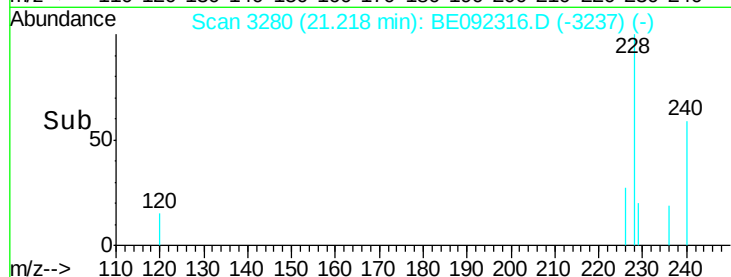
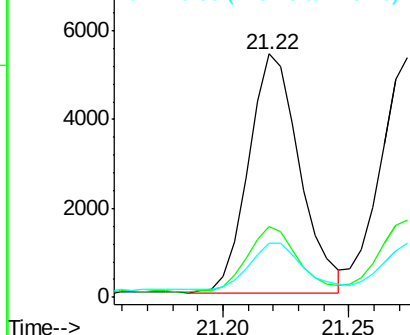
228 100

226 29.3 21.6 32.4

229 22.2 15.9 23.9



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



#19

Chrysene

Concen: 0.07 ng/ul

RT: 21.27 min Scan# 3292

Delta R.T. 0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

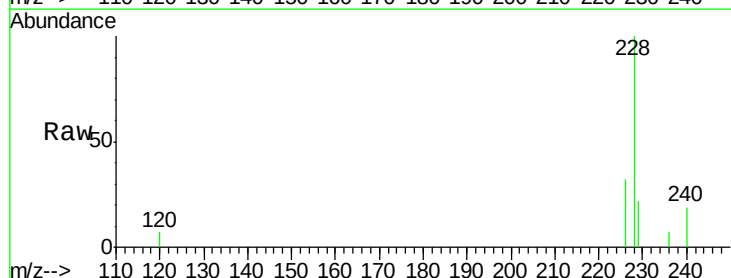
Tgt Ion:228 Resp: 8036

Ion Ratio Lower Upper

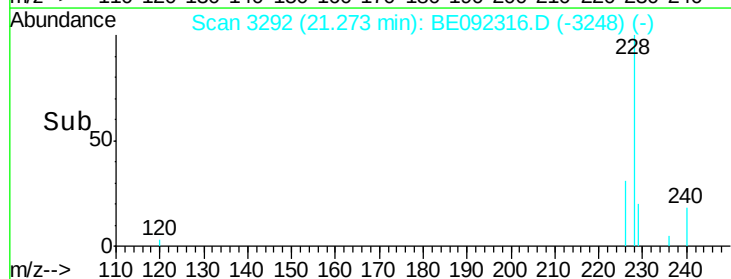
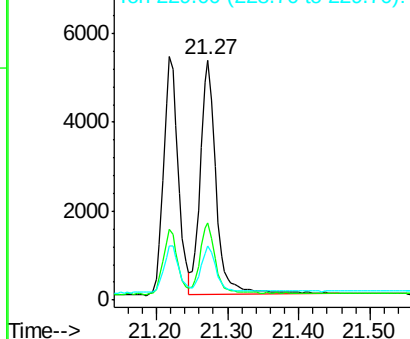
228 100

226 32.2 23.8 35.8

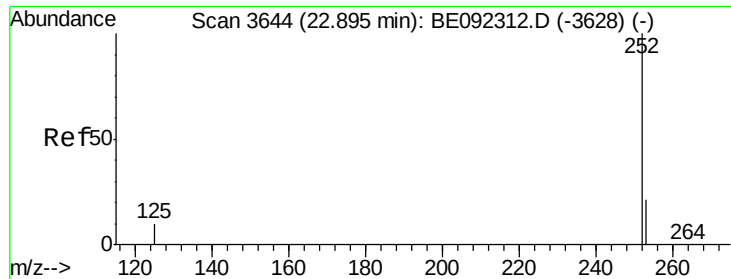
229 22.3 16.0 24.0



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



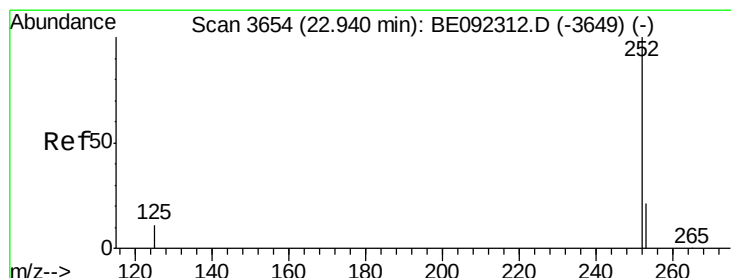
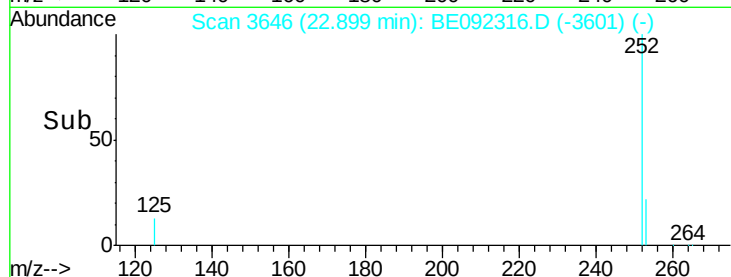
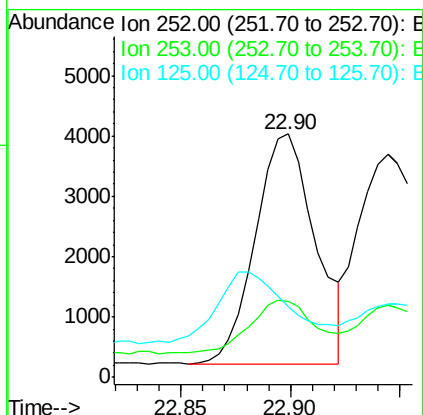
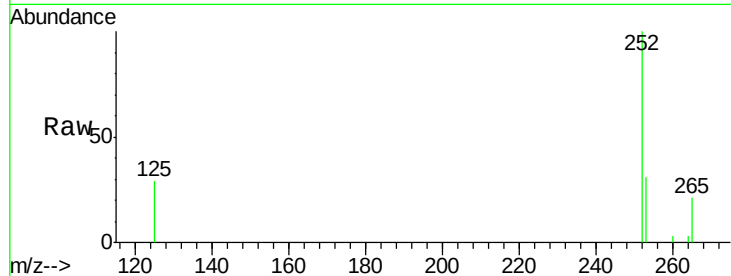




#21  
Benzo(b)fluoranthene  
Concen: 0.07 ng/ul  
RT: 22.90 min Scan# 3646  
Delta R.T. 0.01 min  
Lab File: BE092316.D  
Acq: 31 Aug 2016 13:56

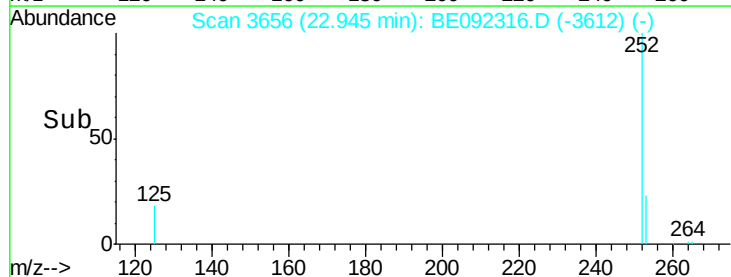
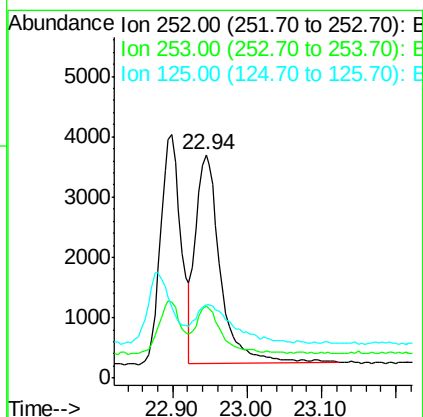
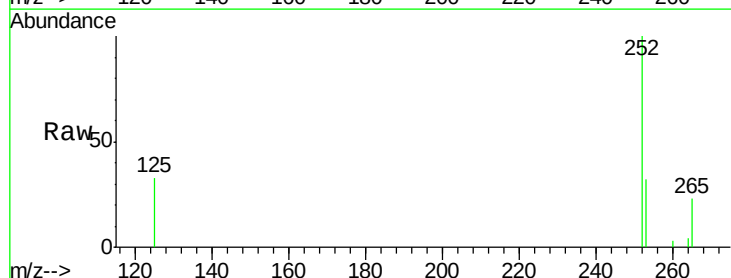
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-03-S

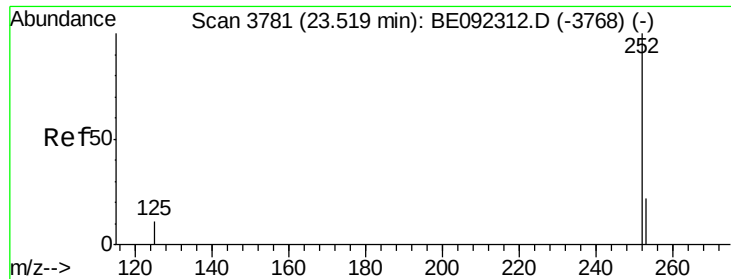
Tgt Ion:252 Resp: 7323  
Ion Ratio Lower Upper  
252 100  
253 31.0 0.0 47.6  
125 28.9 0.0 24.2#



#22  
Benzo(k)fluoranthene  
Concen: 0.07 ng/ul  
RT: 22.94 min Scan# 3656  
Delta R.T. 0.00 min  
Lab File: BE092316.D  
Acq: 31 Aug 2016 13:56

Tgt Ion:252 Resp: 8082  
Ion Ratio Lower Upper  
252 100  
253 32.4 18.7 28.1#  
125 32.8 9.7 14.5#





#23

Benzo(a)pyrene

Concen: 0.07 ng/ul

RT: 23.52 min Scan# 3783

Delta R.T. 0.01 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

Instrument :

BNA\_E

ClientSampleId :

MDL-03-S

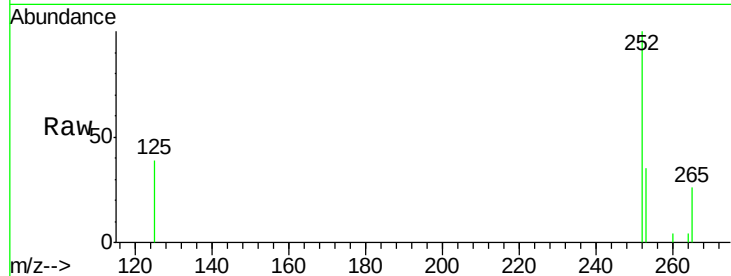
Tgt Ion:252 Resp: 7338

Ion Ratio Lower Upper

252 100

253 35.0 18.8 28.2#

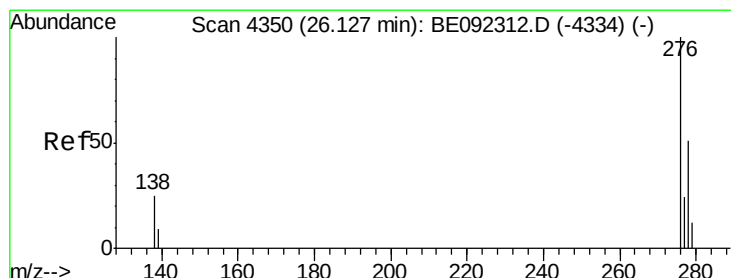
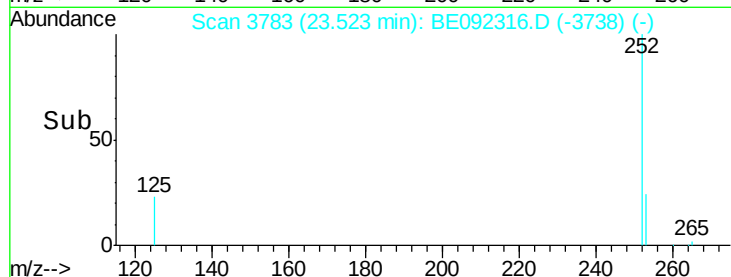
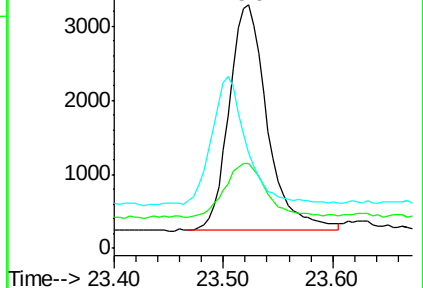
125 38.9 11.9 17.9#



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: 0.07 ng/ul

RT: 26.14 min Scan# 4353

Delta R.T. 0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

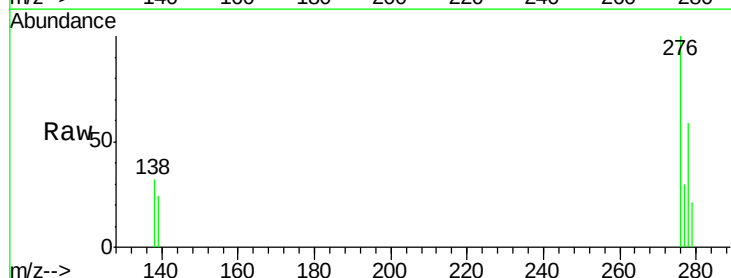
Tgt Ion:276 Resp: 8304

Ion Ratio Lower Upper

276 100

138 25.3 0.0 0.0#

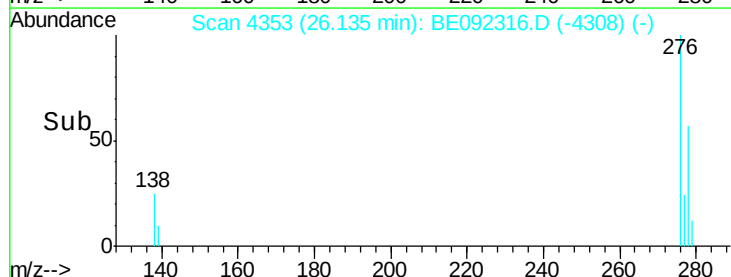
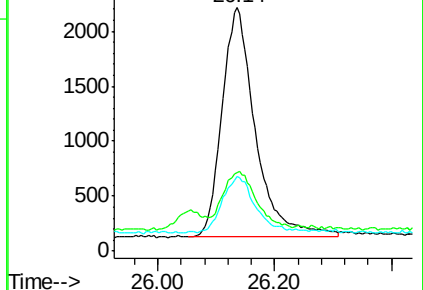
277 24.0 0.0 0.0#

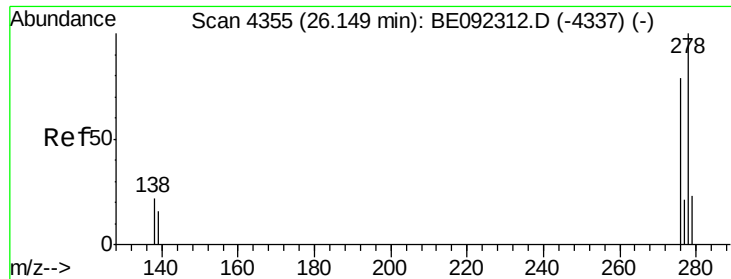


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.07 ng/ul

RT: 26.15 min Scan# 4357

Delta R.T. 0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

Instrument :

BNA\_E

ClientSampleId :

MDL-03-S

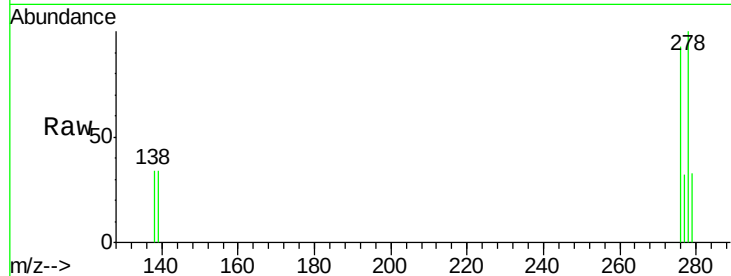
Tgt Ion:278 Resp: 6658

Ion Ratio Lower Upper

278 100

139 33.8 14.6 22.0#

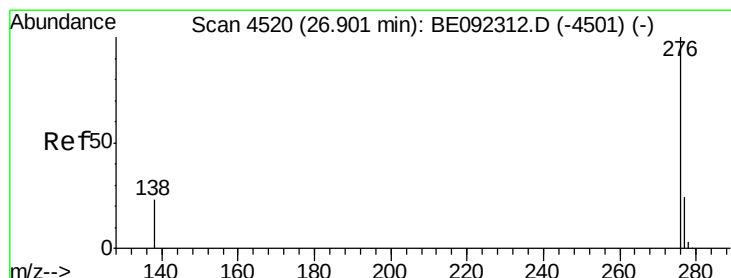
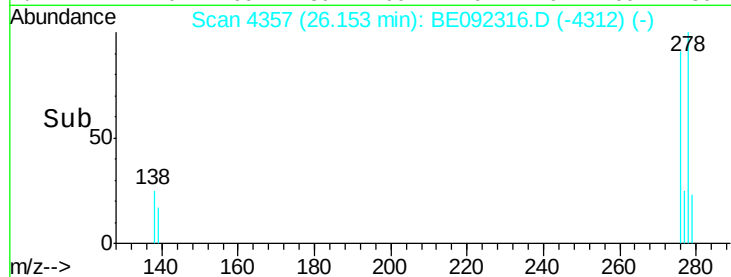
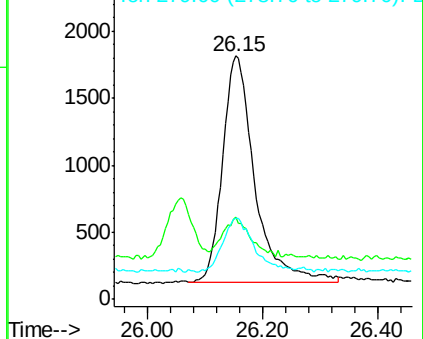
279 33.2 20.2 30.2#



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: 0.07 ng/ul

RT: 26.90 min Scan# 4521

Delta R.T. 0.00 min

Lab File: BE092316.D

Acq: 31 Aug 2016 13:56

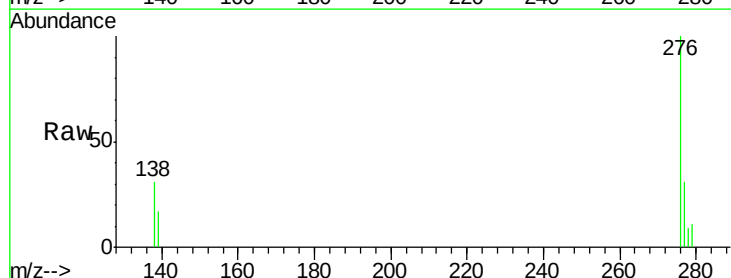
Tgt Ion:276 Resp: 7208

Ion Ratio Lower Upper

276 100

277 30.8 19.5 29.3#

138 31.0 19.2 28.8#



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

