

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE080918\  
 Data File : BE097253.D  
 Acq On : 9 Aug 2018 16:29  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Aug 09 17:27:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE080118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 09 16:11:08 2018  
 Response via : Initial Calibration

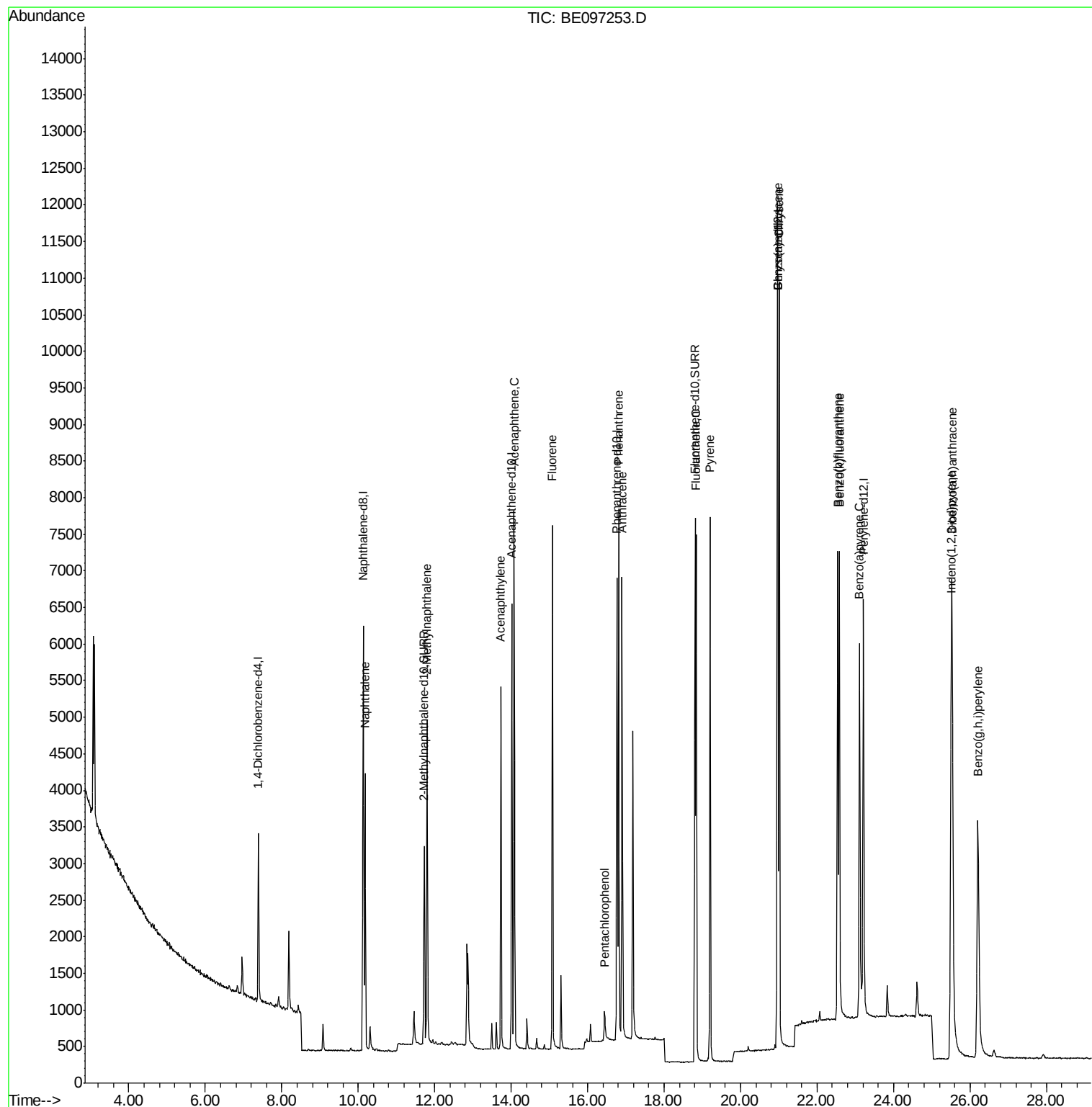
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.39  | 152  | 1148     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.13 | 136  | 6097     | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.02 | 164  | 3418     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.77 | 188  | 7689     | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.98 | 240  | 7479     | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.21 | 264  | 7751     | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.72 | 152  | 3878     | 0.40  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.81 | 212  | 8476     | 0.32  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.18 | 128  | 5721     | 0.387 | ng/ul# | 93       |
| 5) 2-Methylnaphthalene      | 11.80 | 142  | 3853     | 0.395 | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.73 | 152  | 5885     | 0.398 | ng/ul  | 97       |
| 8) Acenaphthene             | 14.08 | 153  | 4176     | 0.391 | ng/ul  | 94       |
| 9) Fluorene                 | 15.08 | 166  | 4604     | 0.375 | ng/ul  | 93       |
| 11) Pentachlorophenol       | 16.44 | 266  | 281      | 0.255 | ng/ul  | 92       |
| 12) Phenanthrene            | 16.81 | 178  | 7573     | 0.386 | ng/ul# | 89       |
| 13) Anthracene              | 16.90 | 178  | 7047     | 0.385 | ng/ul# | 92       |
| 15) Fluoranthene            | 18.84 | 202  | 8437     | 0.326 | ng/ul  | 84       |
| 17) Pyrene                  | 19.20 | 202  | 8333     | 0.416 | ng/ul# | 81       |
| 18) Benzo(a)anthracene      | 20.96 | 228  | 8320     | 0.389 | ng/ul# | 86       |
| 19) Chrysene                | 21.01 | 228  | 8486     | 0.385 | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 22.53 | 252  | 7992     | 0.378 | ng/ul  | 84       |
| 22) Benzo(k)fluoranthene    | 22.58 | 252  | 8911     | 0.391 | ng/ul# | 88       |
| 23) Benzo(a)pyrene          | 23.11 | 252  | 8049     | 0.381 | ng/ul# | 79       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 10438    | 0.395 | ng/ul# | 78       |
| 25) Dibenzo(a,h)anthracene  | 25.53 | 278  | 8718     | 0.403 | ng/ul# | 89       |
| 26) Benzo(g,h,i)perylene    | 26.21 | 276  | 8762     | 0.383 | ng/ul# | 93       |

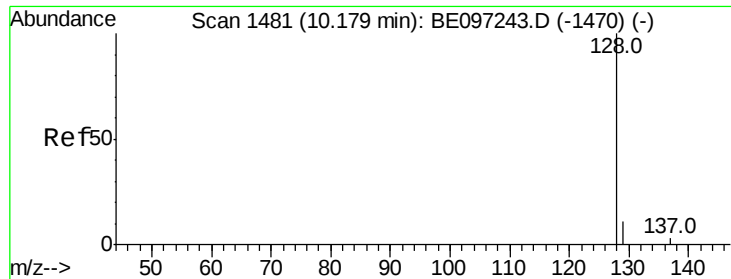
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Aug 09 16:11:08 2018  
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#3

Naphthalene

Concen: 0.387 ng/ul

RT: 10.18 min Scan# 1481

Delta R.T. 0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

Instrument :

BNA\_E

ClientSampleId :

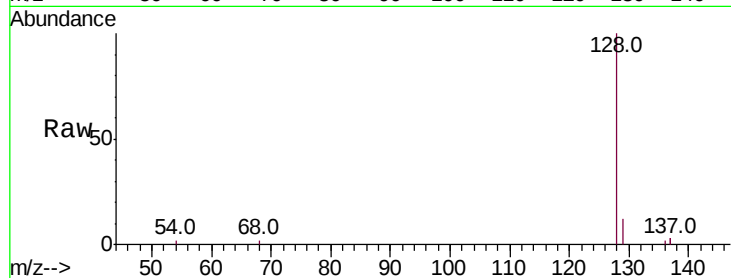
Tot Ion:128 Resp: 5721

Ion Ratio Lower Upper

128 100

129 12.3 11.3 16.9

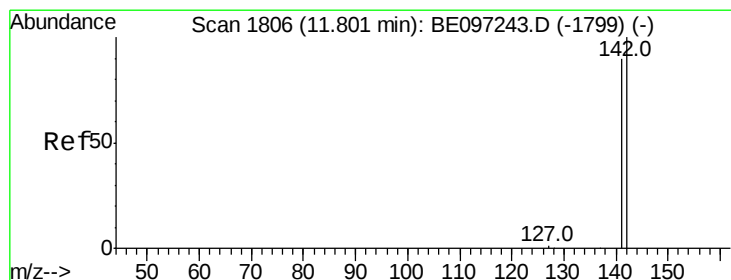
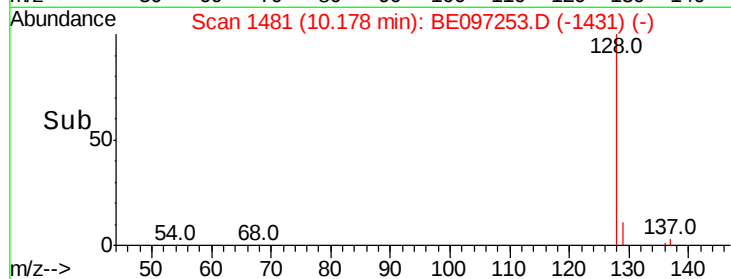
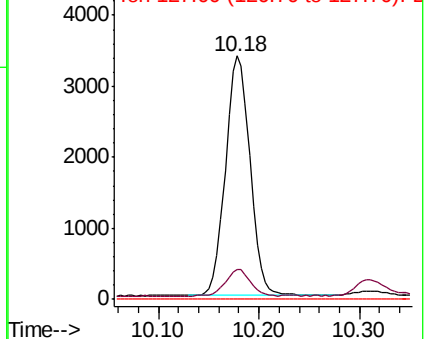
127 0.0 4.0 6.0#



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: 0.395 ng/ul

RT: 11.80 min Scan# 1807

Delta R.T. 0.00 min

Lab File: BE097253.D

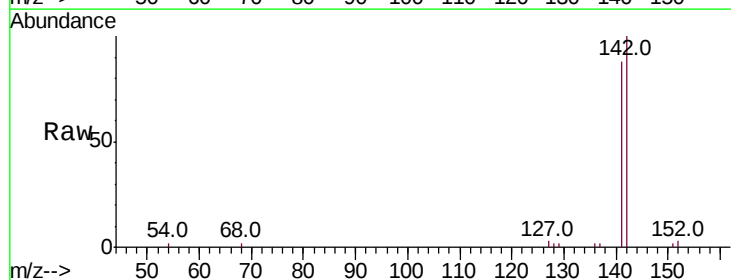
Acq: 9 Aug 2018 16:29

Tgt Ion:142 Resp: 3853

Ion Ratio Lower Upper

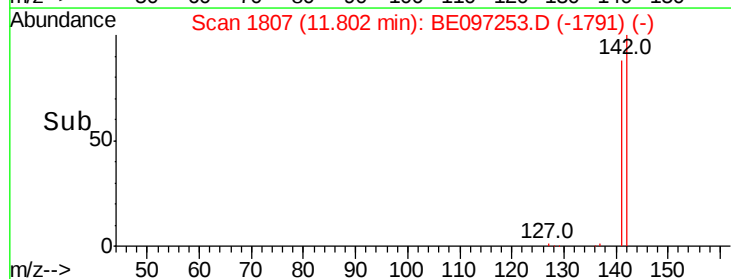
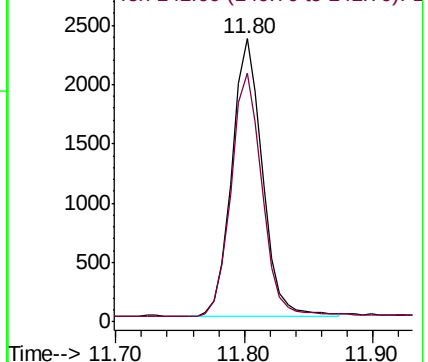
142 100

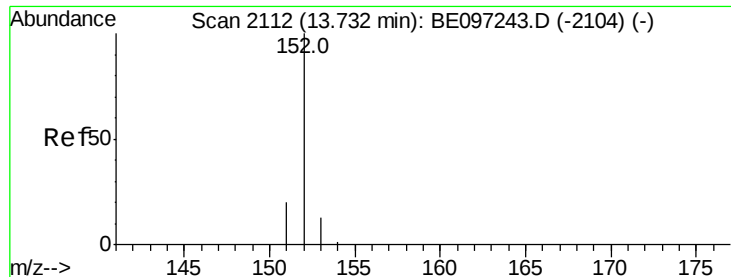
141 89.0 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.398 ng/ul

RT: 13.73 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

Instrument :

BNA\_E

ClientSampleId :

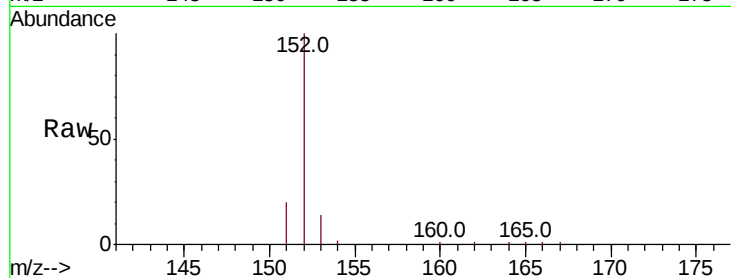
Tot Ion:152 Resp: 5885

Ion Ratio Lower Upper

152 100

151 20.4 17.1 25.7

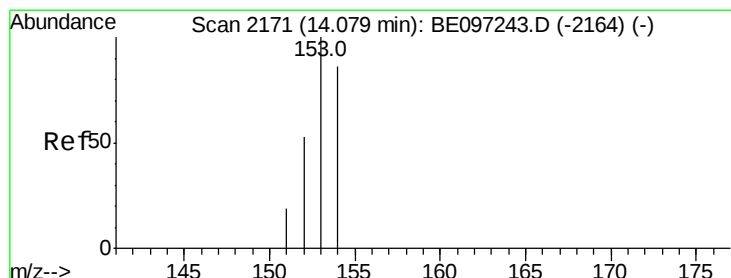
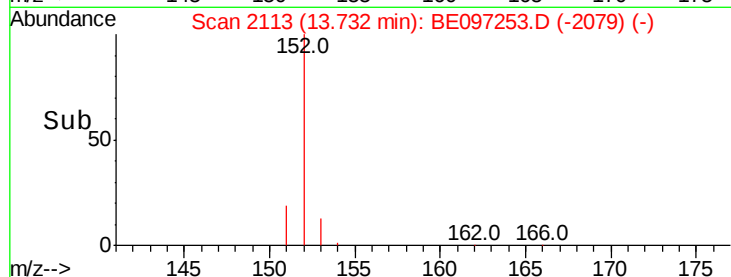
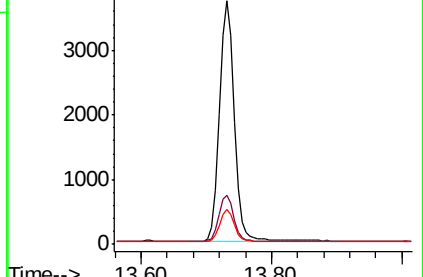
153 14.3 12.8 19.2



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: 0.391 ng/ul

RT: 14.08 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

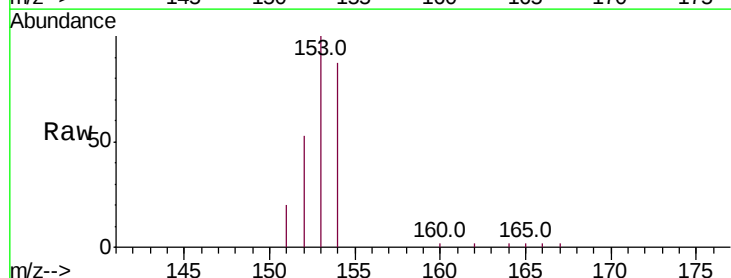
Tgt Ion:153 Resp: 4176

Ion Ratio Lower Upper

153 100

152 53.4 36.0 54.0

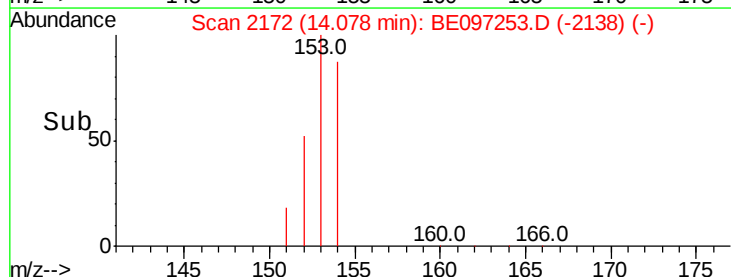
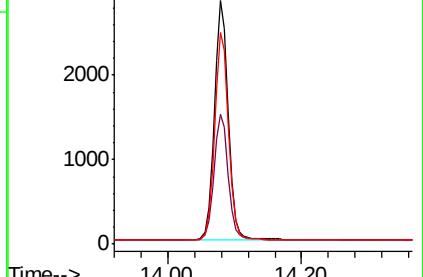
154 87.0 72.0 108.0

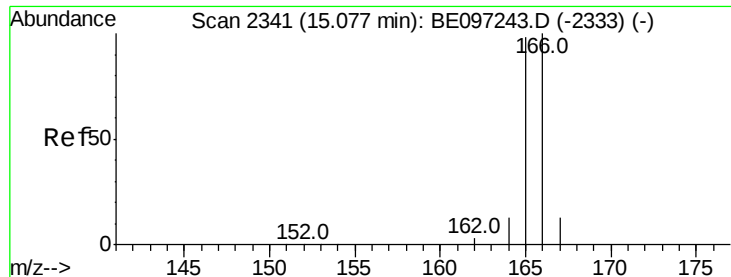


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

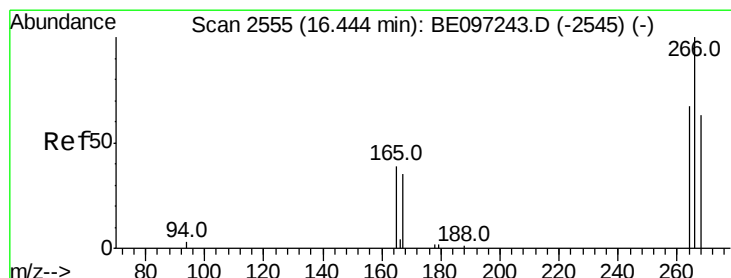
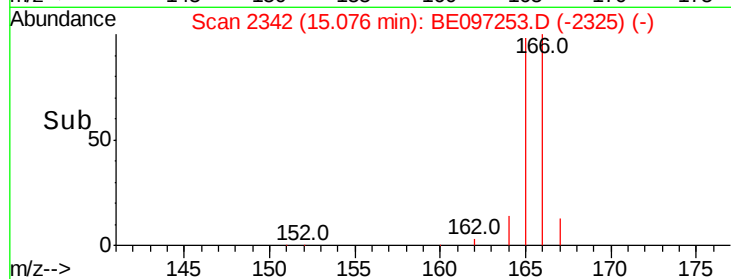
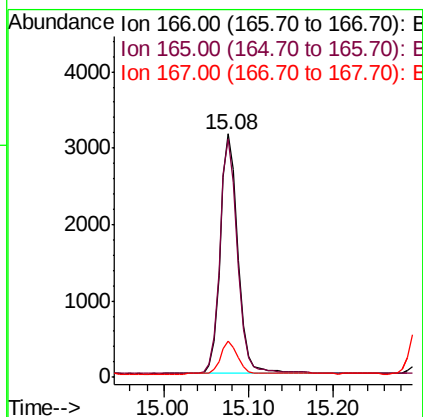
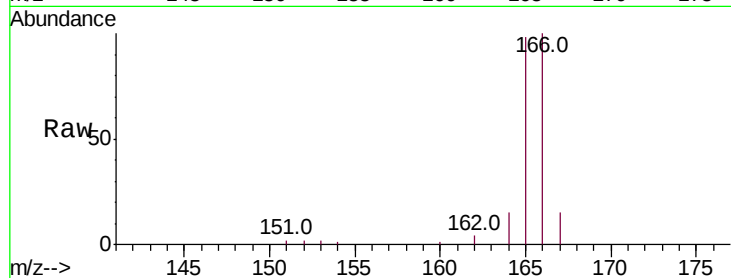




#9  
**Fluorene**  
 Concen: 0.375 ng/ul  
 RT: 15.08 min Scan# 2342  
 Delta R.T. -0.00 min  
 Lab File: BE097253.D  
 Acq: 9 Aug 2018 16:29

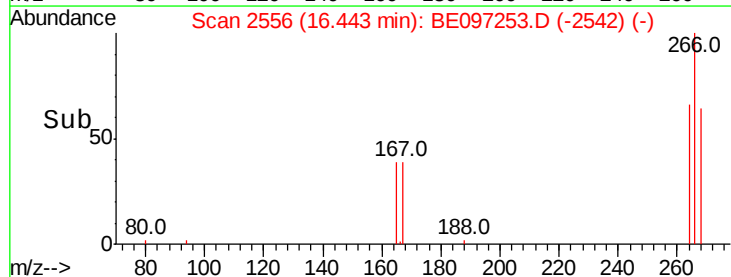
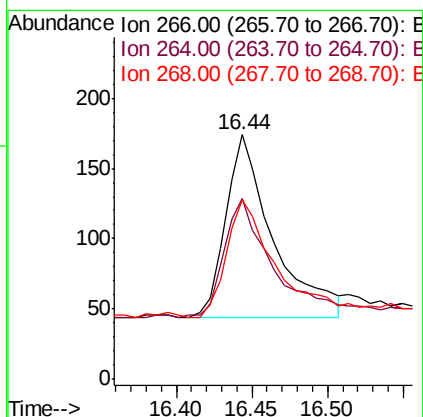
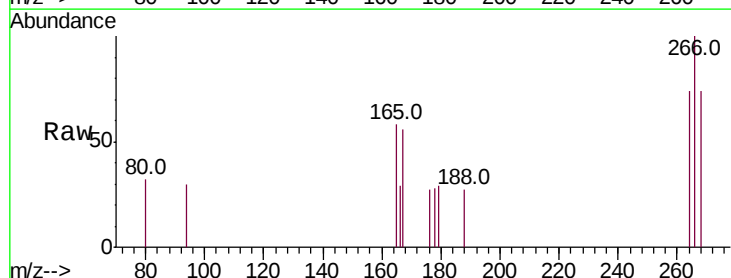
Instrument :  
 BNA\_E  
 ClientSampleId :

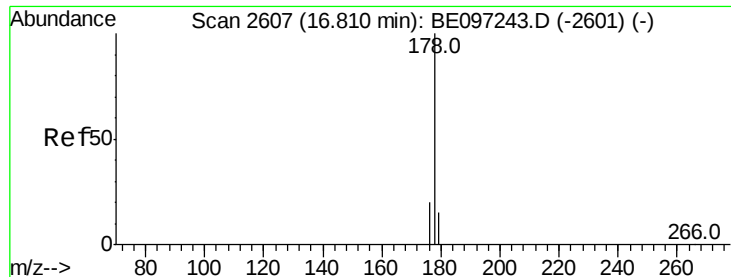
Tot Ion:166 Resp: 4604  
 Ion Ratio Lower Upper  
 166 100  
 165 97.8 73.4 110.2  
 167 14.7 14.6 22.0



#11  
**Pentachlorophenol**  
 Concen: 0.255 ng/ul  
 RT: 16.44 min Scan# 2556  
 Delta R.T. -0.00 min  
 Lab File: BE097253.D  
 Acq: 9 Aug 2018 16:29

Tgt Ion:266 Resp: 281  
 Ion Ratio Lower Upper  
 266 100  
 264 67.3 47.9 71.9  
 268 66.5 49.8 74.8





#12

Phenanthrene

Concen: 0.386 ng/ul

RT: 16.81 min Scan# 2608

Delta R.T. -0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

Instrument :

BNA\_E

ClientSampleId :

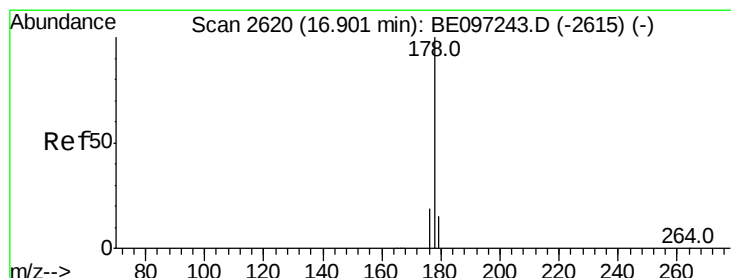
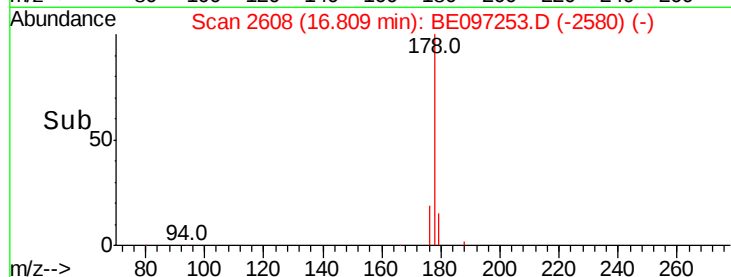
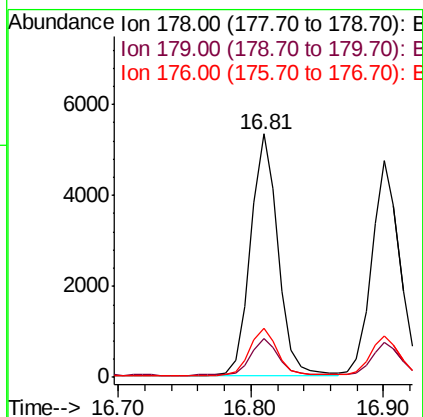
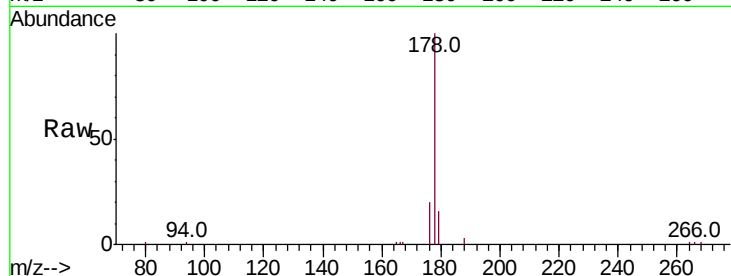
Tot Ion:178 Resp: 7573

Ion Ratio Lower Upper

178 100

179 15.9 18.4 27.6#

176 20.2 13.6 20.4



#13

Anthracene

Concen: 0.385 ng/ul

RT: 16.90 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

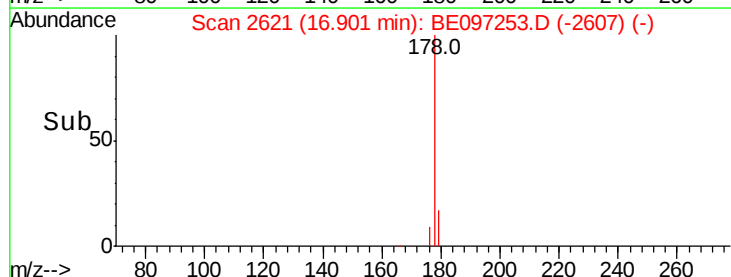
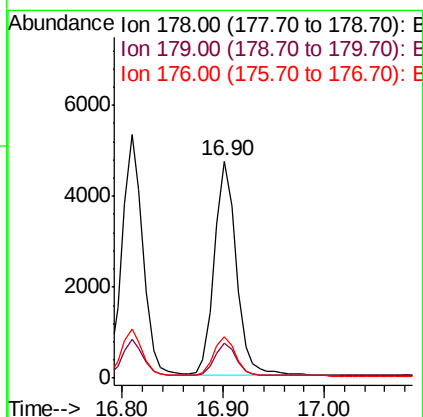
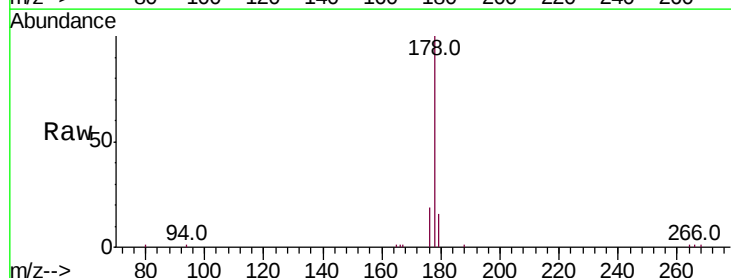
Tgt Ion:178 Resp: 7047

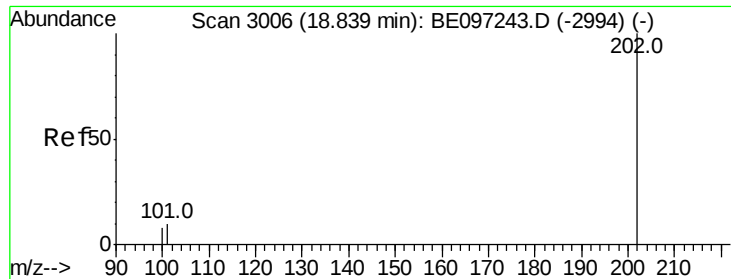
Ion Ratio Lower Upper

178 100

179 16.0 18.1 27.1#

176 19.3 14.7 22.1

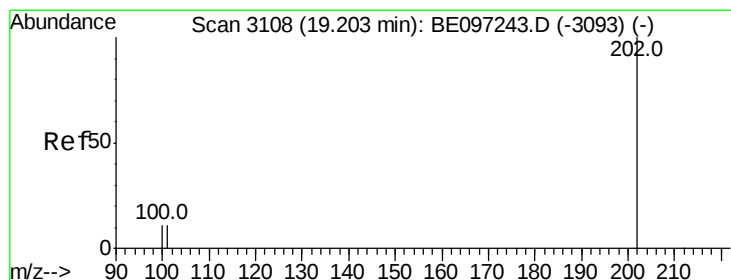
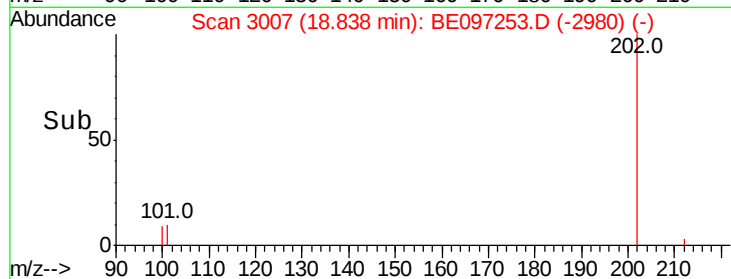
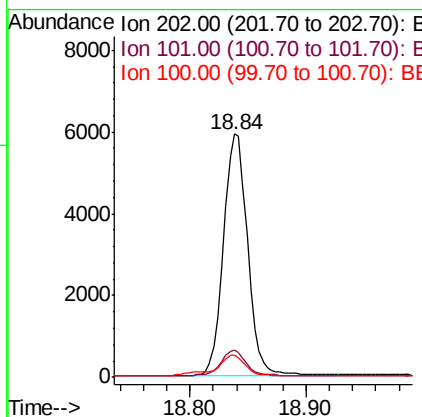
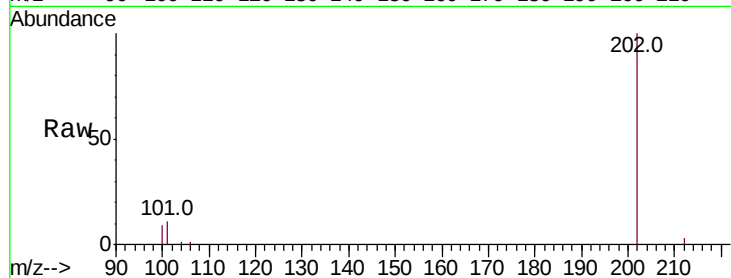




#15  
**Fluoranthene**  
 Concen: 0.326 ng/ul  
 RT: 18.84 min Scan# 3007  
 Delta R.T. -0.00 min  
 Lab File: BE097253.D  
 Acq: 9 Aug 2018 16:29

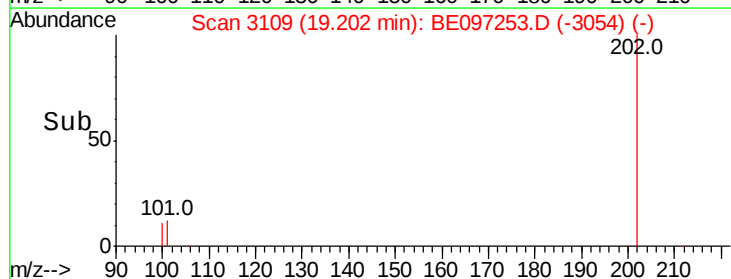
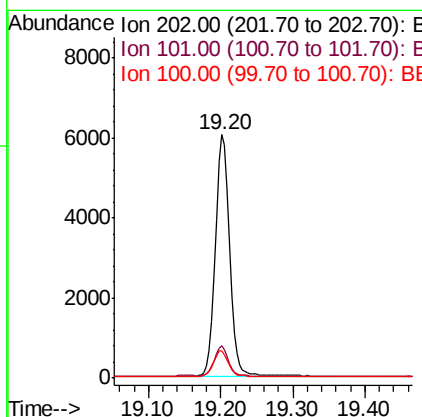
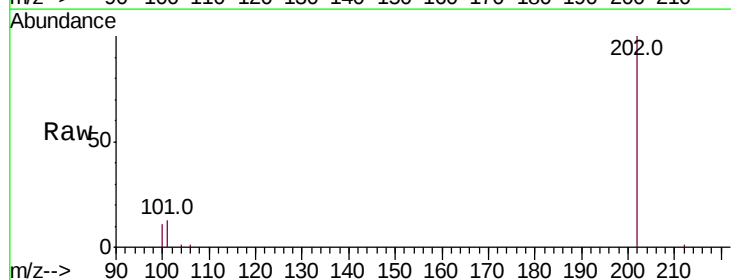
Instrument :  
 BNA\_E  
 ClientSampleId :

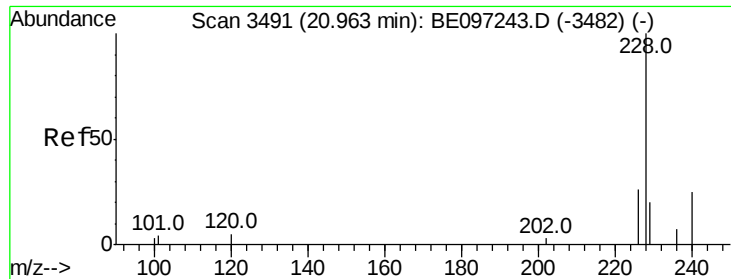
Tot Ion:202 Resp: 8437  
 Ion Ratio Lower Upper  
 202 100  
 101 11.2 0.0 30.3  
 100 9.3 0.0 39.5



#17  
**Pyrene**  
 Concen: 0.416 ng/ul  
 RT: 19.20 min Scan# 3109  
 Delta R.T. -0.00 min  
 Lab File: BE097253.D  
 Acq: 9 Aug 2018 16:29

Tgt Ion:202 Resp: 8333  
 Ion Ratio Lower Upper  
 202 100  
 101 13.2 18.2 27.4#  
 100 11.3 15.6 23.4#





#18

Benzo(a)anthracene

Concen: 0.389 ng/ul

RT: 20.96 min Scan# 3492

Delta R.T. 0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

Instrument :

BNA\_E

ClientSampleId :

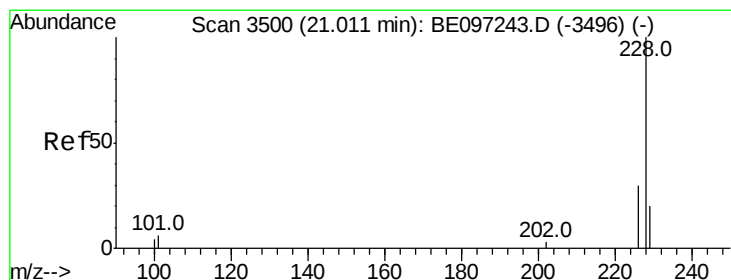
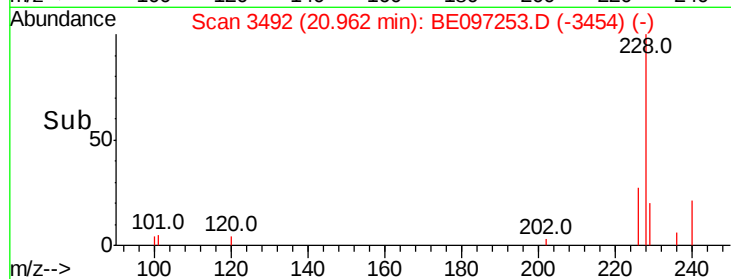
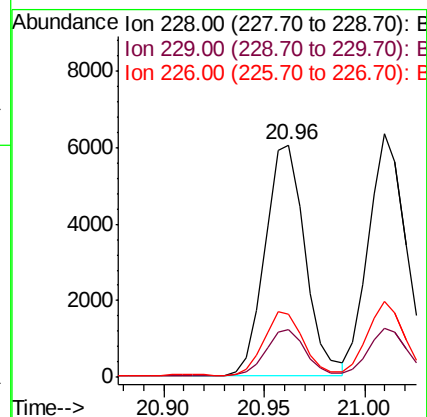
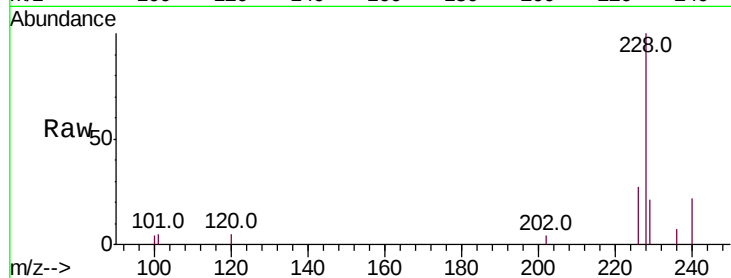
Tot Ion:228 Resp: 8320

Ion Ratio Lower Upper

228 100

229 20.6 22.8 34.2#

226 27.4 17.0 25.6#



#19

Chrysene

Concen: 0.385 ng/ul

RT: 21.01 min Scan# 3501

Delta R.T. -0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

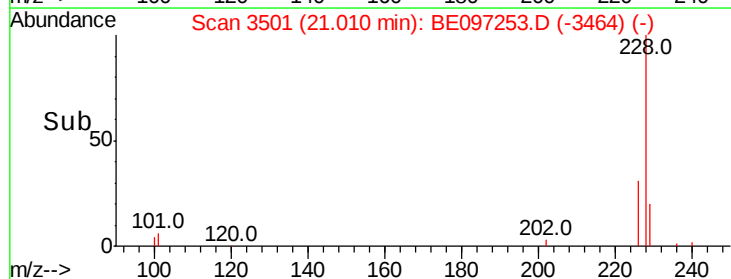
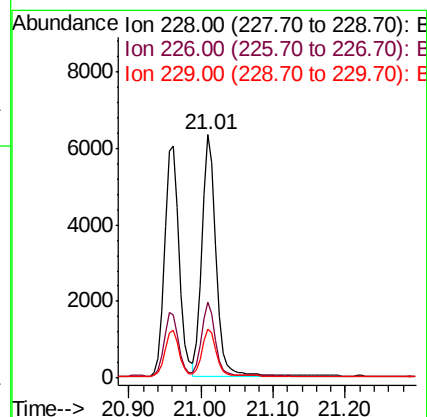
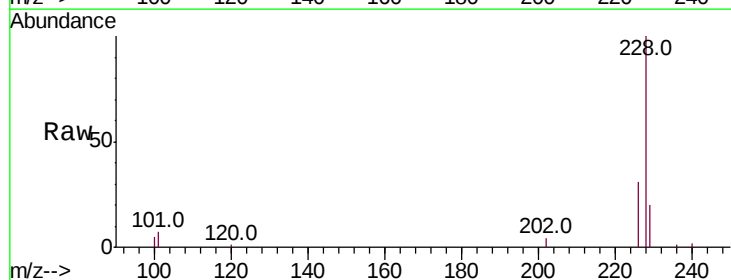
Tgt Ion:228 Resp: 8486

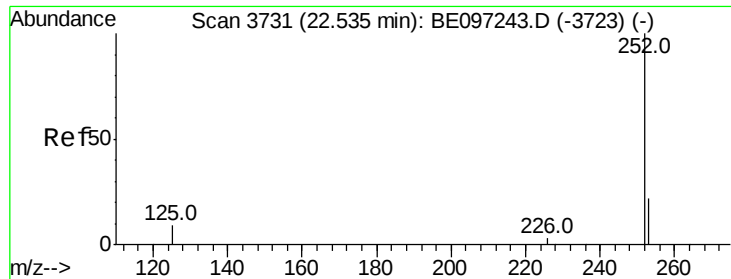
Ion Ratio Lower Upper

228 100

226 31.2 23.4 35.0

229 20.2 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 0.378 ng/ul

RT: 22.53 min Scan# 3732

Delta R.T. 0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

Instrument :

BNA\_E

ClientSampleId :

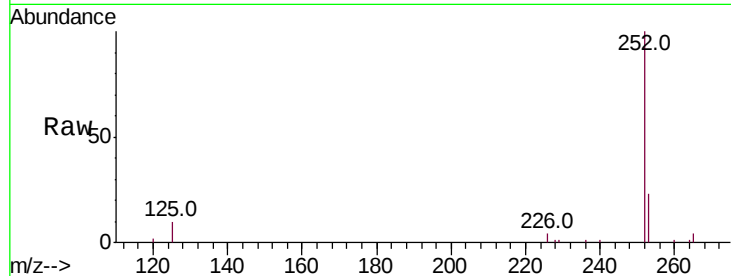
Tot Ion:252 Resp: 7992

Ion Ratio Lower Upper

252 100

253 23.1 0.0 64.2

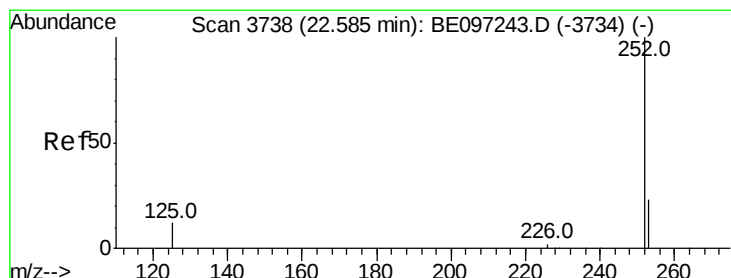
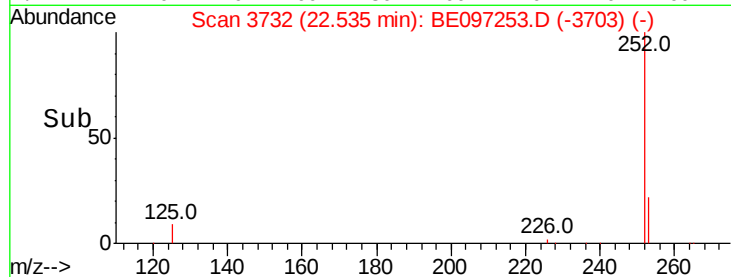
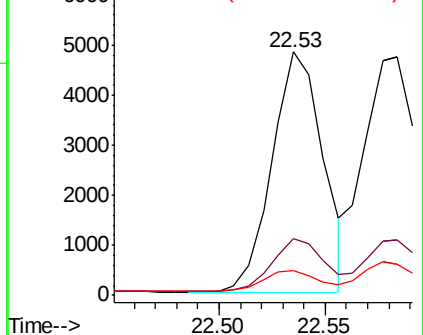
125 10.2 0.0 35.0



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: 0.391 ng/ul

RT: 22.58 min Scan# 3739

Delta R.T. 0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

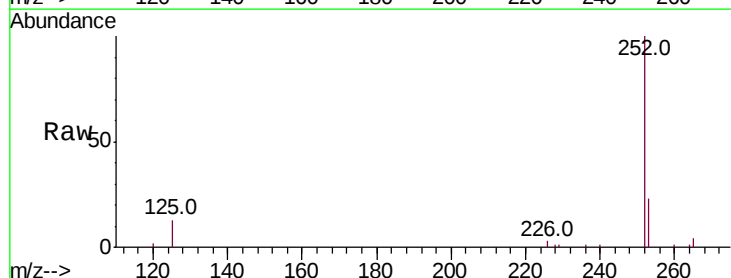
Tgt Ion:252 Resp: 8911

Ion Ratio Lower Upper

252 100

253 23.4 24.5 36.7#

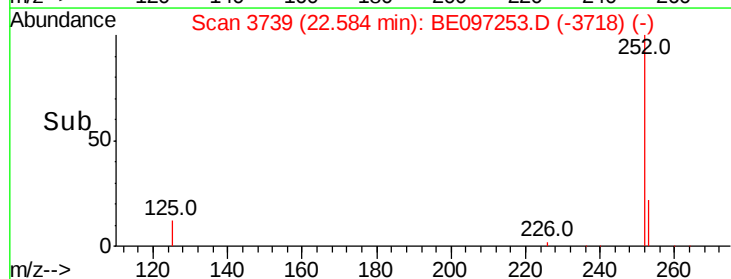
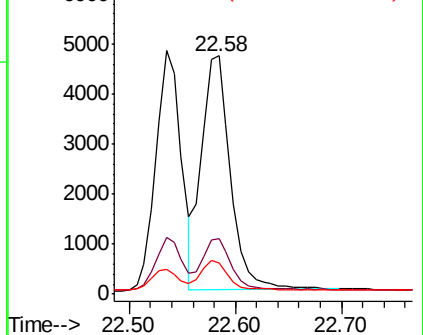
125 13.3 13.7 20.5#

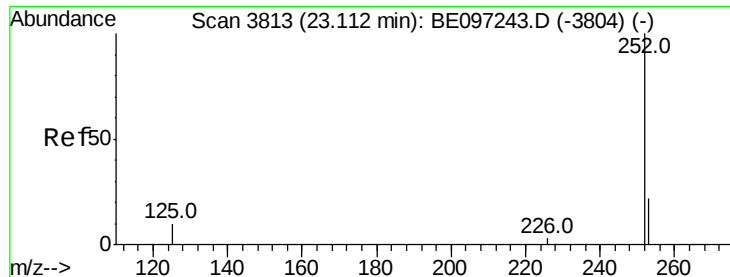


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.381 ng/ul

RT: 23.11 min Scan# 3814

Delta R.T. 0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

Instrument :

BNA\_E

ClientSampleId :

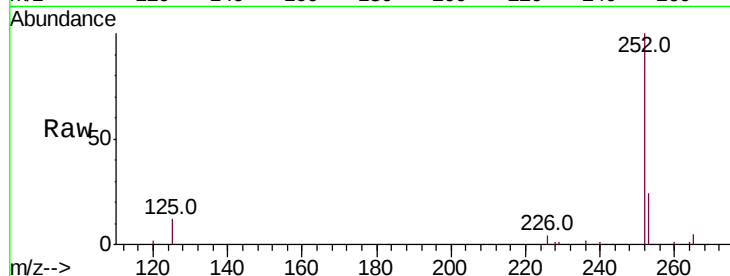
Tot Ion:252 Resp: 8049

Ion Ratio Lower Upper

252 100

253 23.6 28.5 42.7#

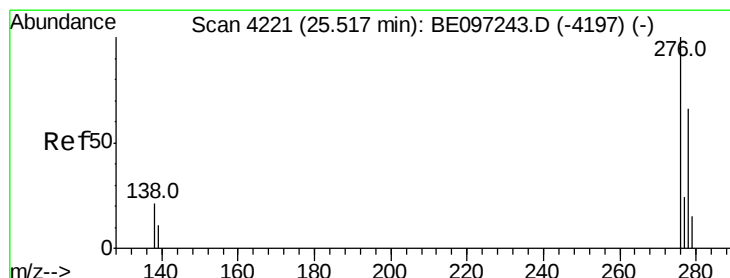
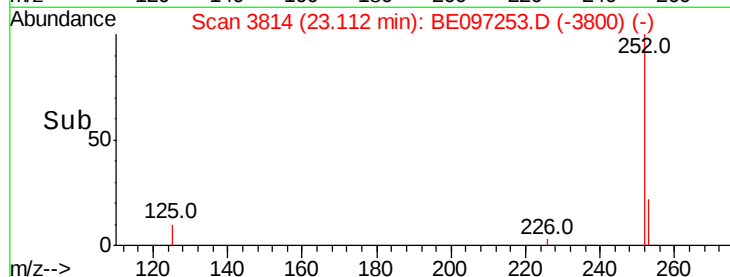
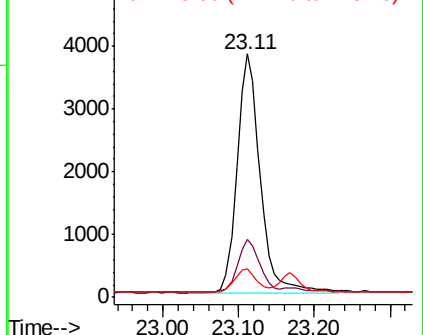
125 11.7 18.1 27.1#



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: 0.395 ng/ul

RT: 25.51 min Scan# 4219

Delta R.T. -0.00 min

Lab File: BE097253.D

Acq: 9 Aug 2018 16:29

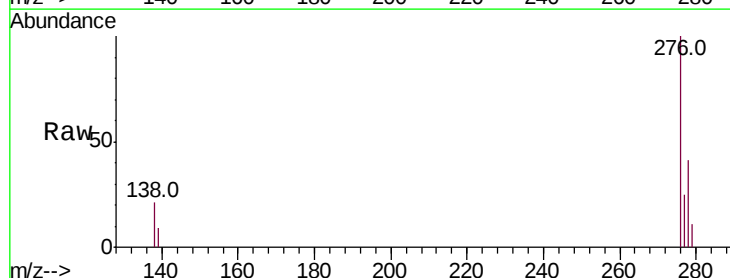
Tgt Ion:276 Resp: 10438

Ion Ratio Lower Upper

276 100

138 22.7 28.0 42.0#

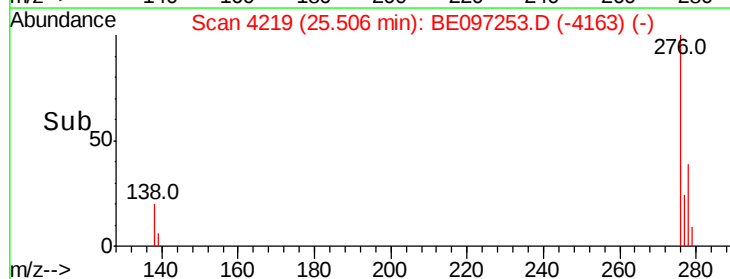
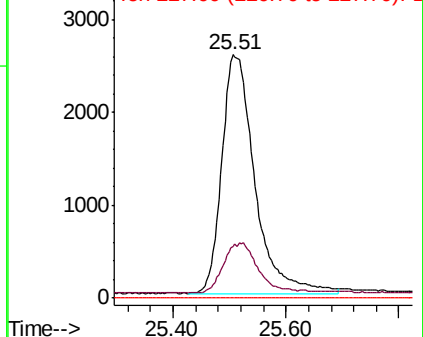
227 0.0 8.0 12.0#

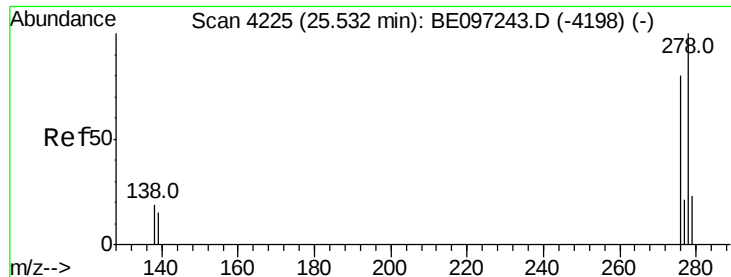


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

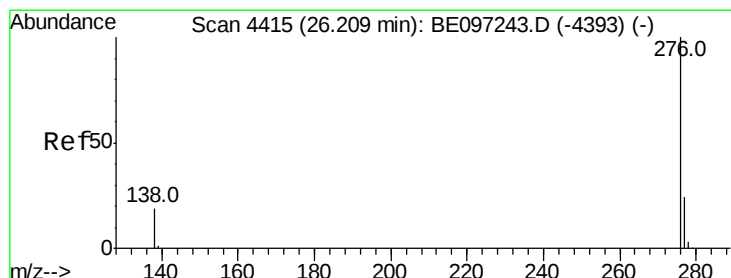
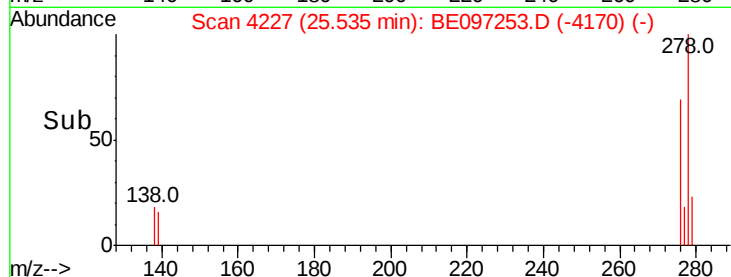
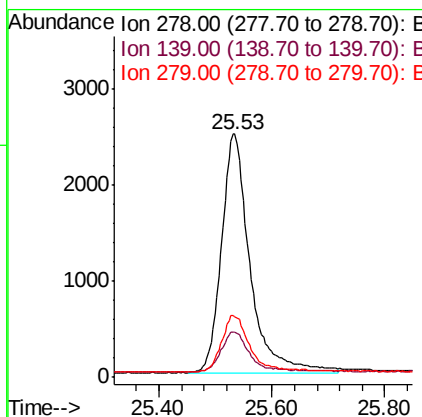
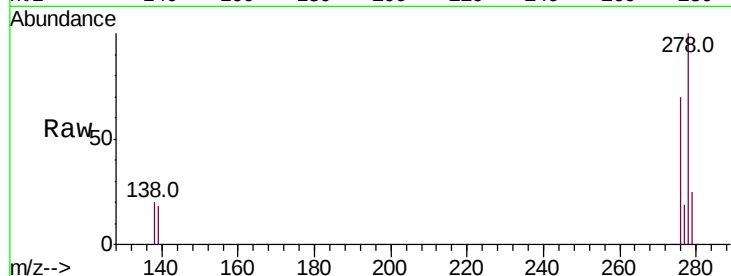




#25  
Dibenzo(a,h)anthracene  
Concen: 0.403 ng/ul  
RT: 25.53 min Scan# 4227  
Delta R.T. 0.00 min  
Lab File: BE097253.D  
Acq: 9 Aug 2018 16:29

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 8718  
Ion Ratio Lower Upper  
278 100  
139 18.4 17.4 26.0  
279 24.8 25.9 38.9#



#26  
Benzo(g,h,i)perylene  
Concen: 0.383 ng/ul  
RT: 26.21 min Scan# 4415  
Delta R.T. -0.00 min  
Lab File: BE097253.D  
Acq: 9 Aug 2018 16:29

Tgt Ion:276 Resp: 8762  
Ion Ratio Lower Upper  
276 100  
138 20.2 21.8 32.8#  
277 25.5 20.5 30.7

