

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101218\  
 Data File : BE097879.D  
 Acq On : 12 Oct 2018 9:52  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Oct 12 14:27:19 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 12 04:56:57 2018  
 Response via : Initial Calibration

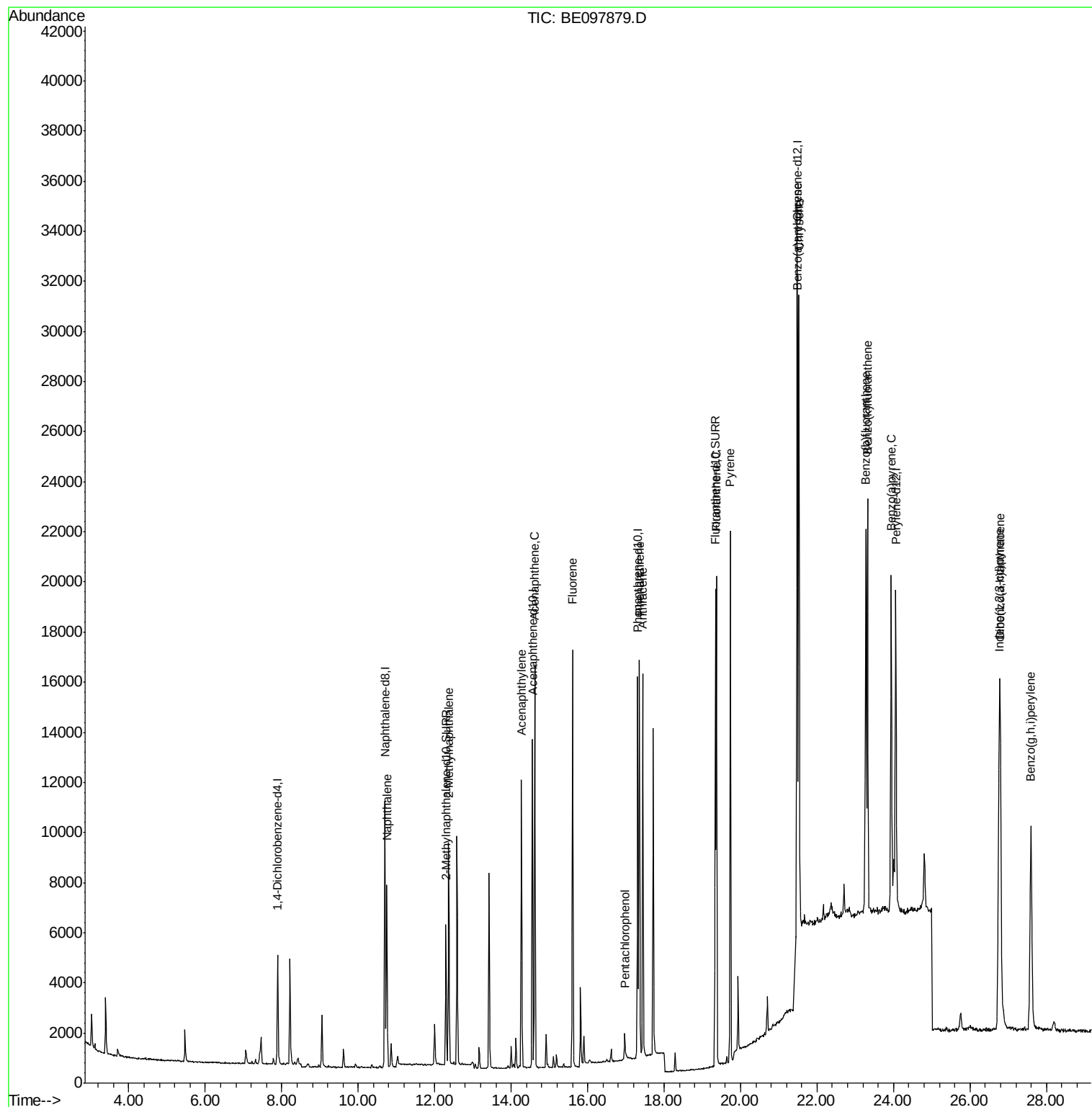
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.89  | 152  | 2131     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 11118    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.55 | 164  | 7503     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.31 | 188  | 17987    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.49 | 240  | 19598    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.06 | 264  | 19768    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152  | 7427     | 0.39   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.34 | 212  | 21516    | 0.37   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.75 | 128  | 10955    | 0.405  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 7804     | 0.399  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.27 | 152  | 13127    | 0.462  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.61 | 153  | 9401     | 0.427  | ng/ul  | 98       |
| 9) Fluorene                 | 15.61 | 166  | 10713    | 0.373  | ng/ul  | 98       |
| 11) Pentachlorophenol       | 16.97 | 266  | 757      | 0.299  | ng/ul  | 95       |
| 12) Phenanthrene            | 17.35 | 178  | 17227    | 0.405  | ng/ul  | 99       |
| 13) Anthracene              | 17.44 | 178  | 16629    | 0.421  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.37 | 202  | 21483    | 0.393  | ng/ul  | 97       |
| 17) Pyrene                  | 19.73 | 202  | 27460    | 0.470  | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.47 | 228  | 31309    | 0.528  | ng/ul  | 96       |
| 19) Chrysene                | 21.53 | 228  | 23638    | 0.444  | ng/ul  | 94       |
| 21) Benzo(b)fluoranthene    | 23.27 | 252  | 21916    | 0.415  | ng/ul# | 88       |
| 22) Benzo(k)fluoranthene    | 23.32 | 252  | 22327    | 0.395  | ng/ul# | 84       |
| 23) Benzo(a)pyrene          | 23.94 | 252  | 21496    | 0.414  | ng/ul# | 85       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.77 | 276  | 24447    | 0.415  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 26.79 | 278  | 20493    | 0.421  | ng/ul# | 86       |
| 26) Benzo(g,h,i)perylene    | 27.59 | 276  | 20526    | 0.400  | ng/ul# | 88       |

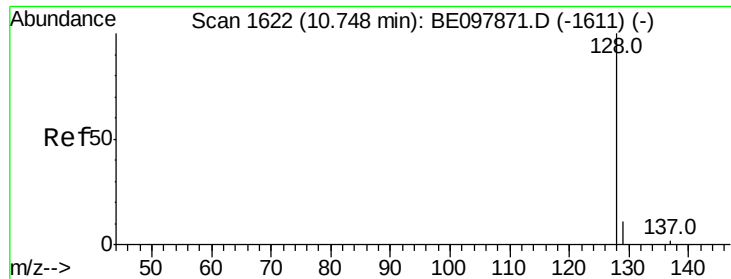
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101218\  
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Instrument :  
BNA\_E  
ClientSampled :

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#3

Naphthalene

Concen: 0.405 ng/ul

RT: 10.75 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

Instrument :

BNA\_E

ClientSampleId :

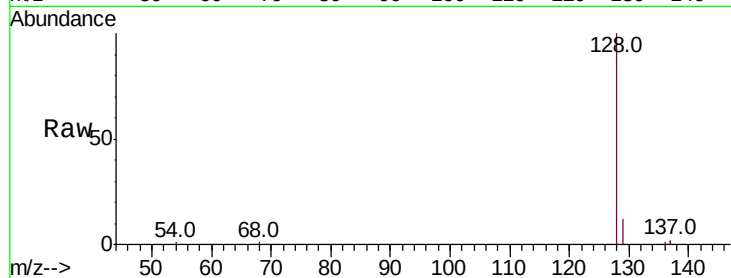
Tot Ion:128 Resp: 10955

Ion Ratio Lower Upper

128 100

129 11.6 9.1 13.7

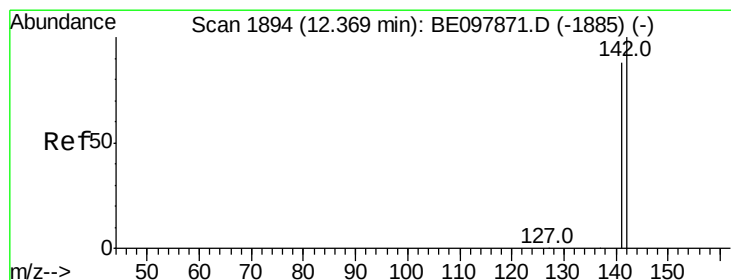
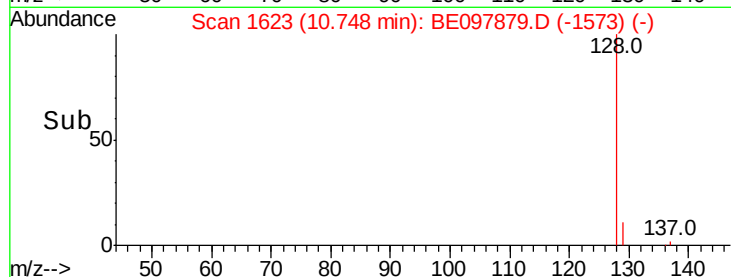
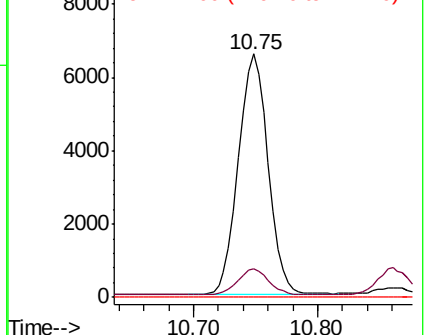
127 0.0 0.0 0.0



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: 0.399 ng/ul

RT: 12.36 min Scan# 1894

Delta R.T. -0.01 min

Lab File: BE097879.D

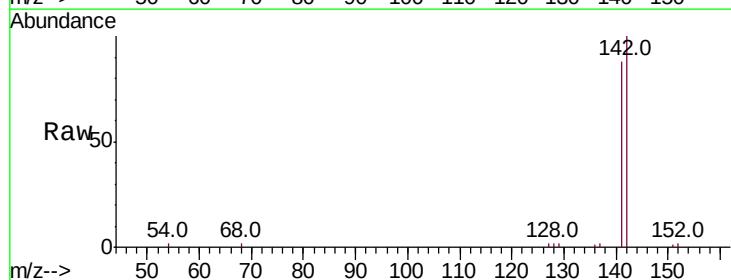
Acq: 12 Oct 2018 9:52

Tgt Ion:142 Resp: 7804

Ion Ratio Lower Upper

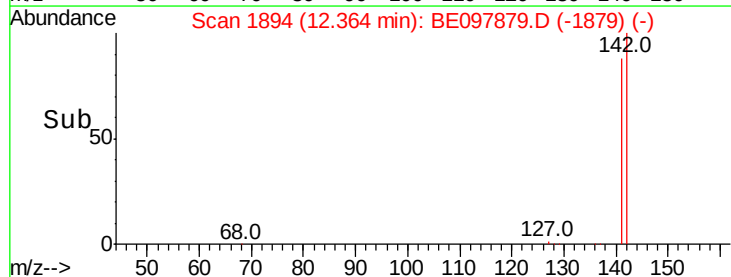
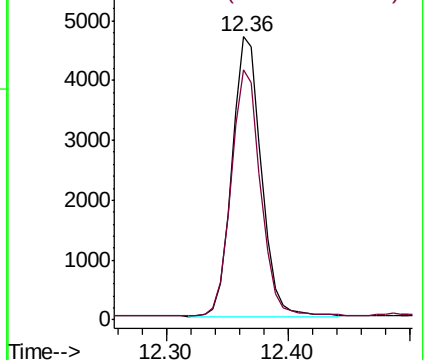
142 100

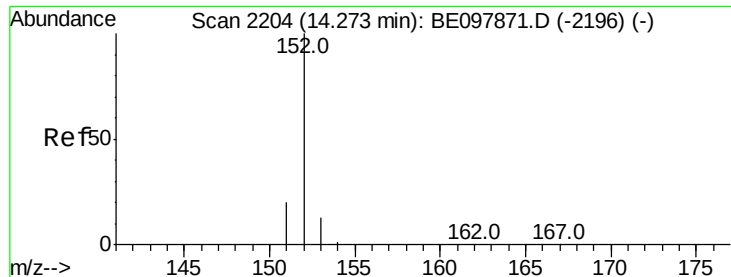
141 88.7 71.6 107.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.462 ng/ul

RT: 14.27 min Scan# 2205

Delta R.T. -0.00 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

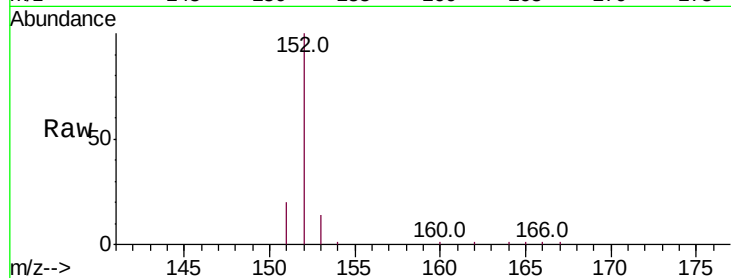
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:152 Resp: 13127

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 20.2  | 15.0  | 22.6  |
| 153 | 13.8  | 10.5  | 15.7  |

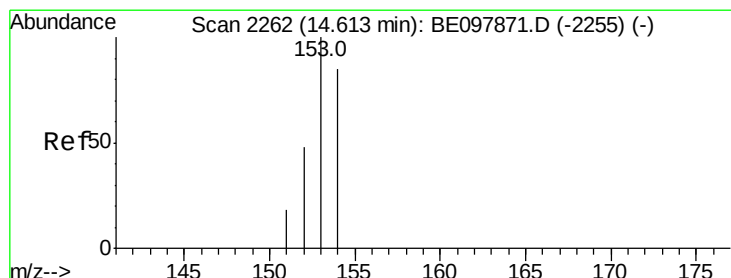
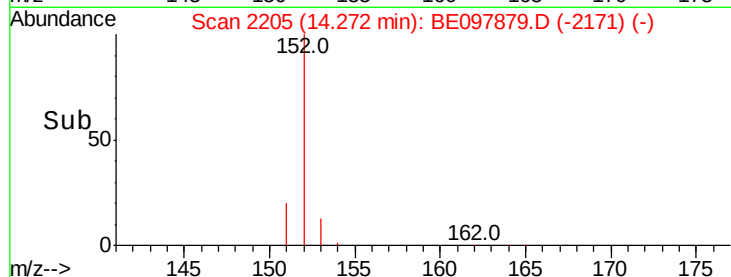
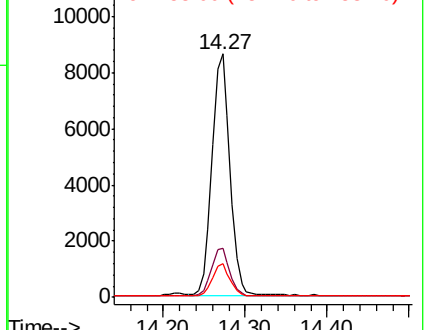


Abundance

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: 0.427 ng/ul

RT: 14.61 min Scan# 2263

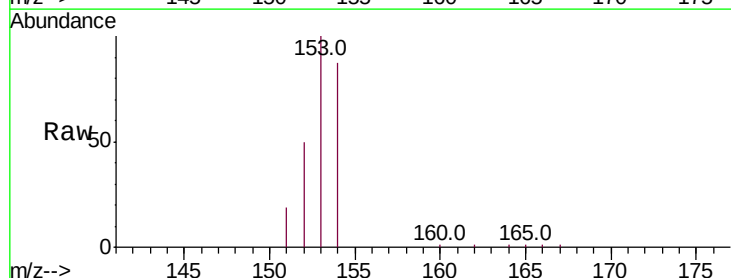
Delta R.T. -0.00 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

Tgt Ion:153 Resp: 9401

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100   |       |       |
| 152 | 49.9  | 41.2  | 61.8  |
| 154 | 86.8  | 68.6  | 103.0 |

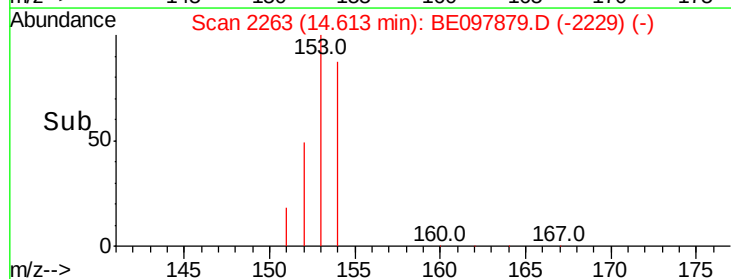
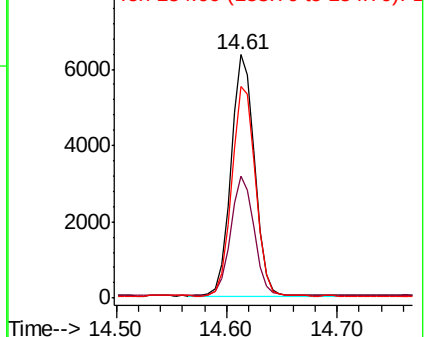


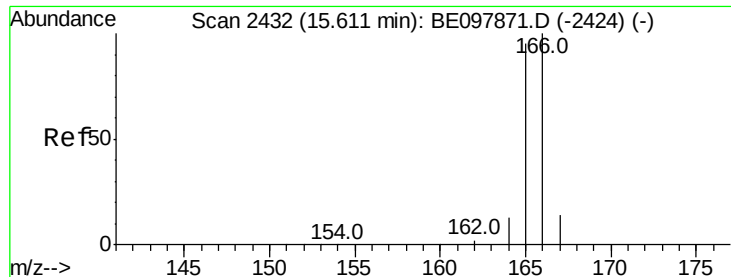
Abundance

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

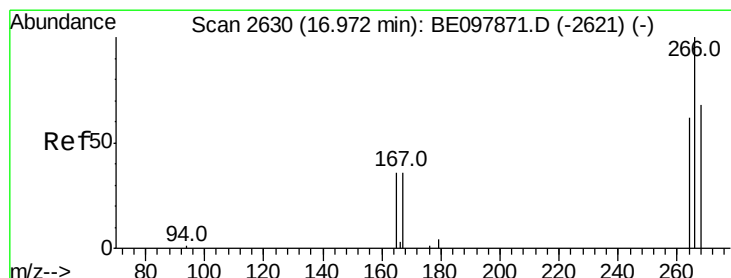
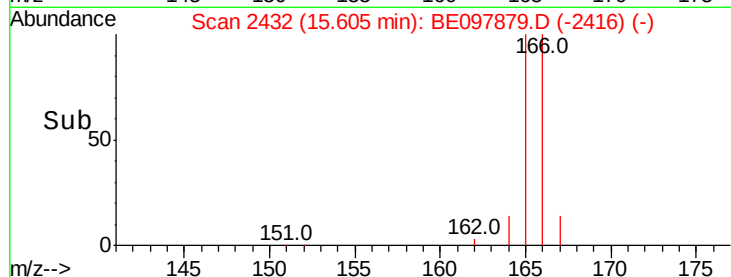
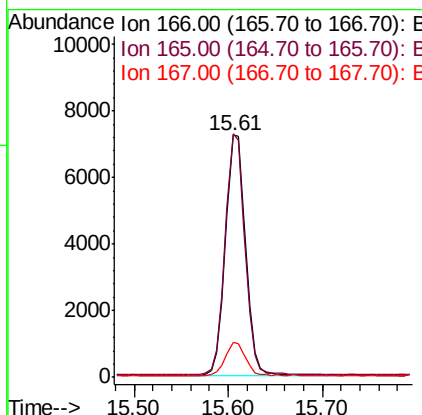
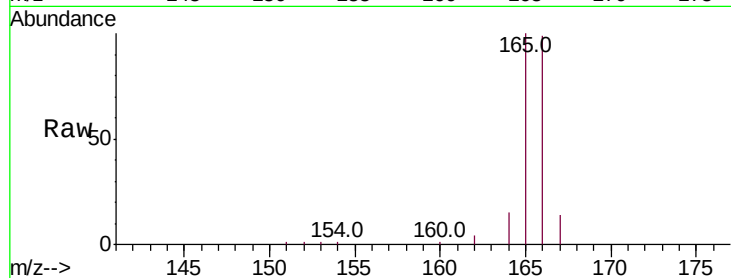




#9  
**Fluorene**  
 Concen: 0.373 ng/ul  
 RT: 15.61 min Scan# 2432  
 Delta R.T. -0.01 min  
 Lab File: BE097879.D  
 Acq: 12 Oct 2018 9:52

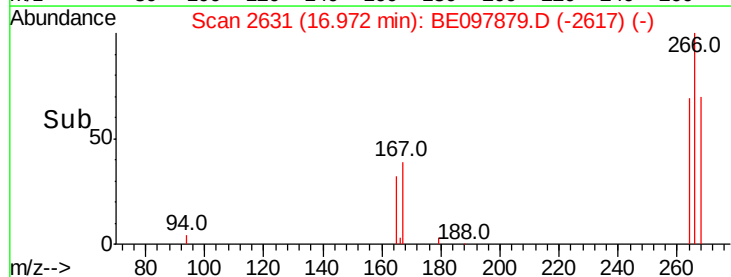
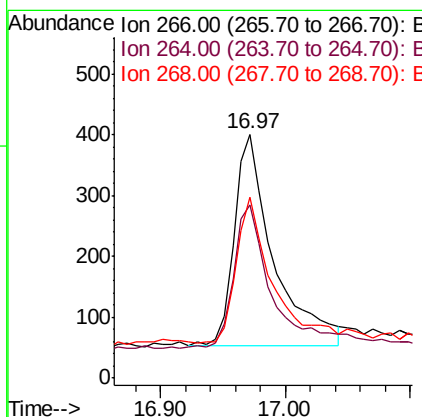
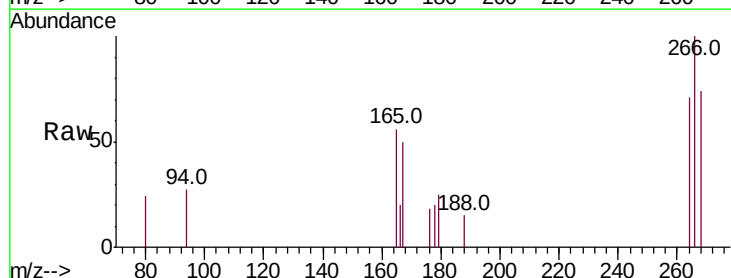
Instrument :  
 BNA\_E  
 ClientSampleId :

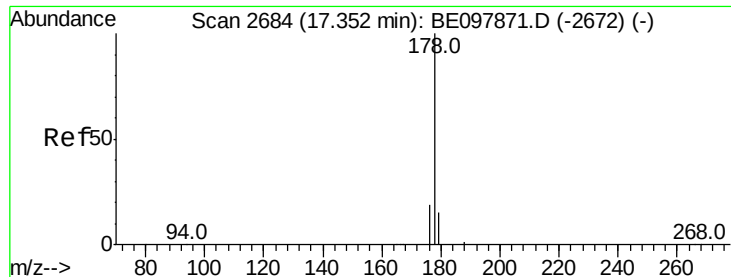
Tot Ion:166 Resp: 10713  
 Ion Ratio Lower Upper  
 166 100  
 165 100.6 79.2 118.8  
 167 14.6 11.3 16.9



#11  
**Pentachlorophenol**  
 Concen: 0.299 ng/ul  
 RT: 16.97 min Scan# 2631  
 Delta R.T. -0.00 min  
 Lab File: BE097879.D  
 Acq: 12 Oct 2018 9:52

Tgt Ion:266 Resp: 757  
 Ion Ratio Lower Upper  
 266 100  
 264 65.5 49.8 74.8  
 268 64.2 48.4 72.6





#12

Phenanthrene

Concen: 0.405 ng/ul

RT: 17.35 min Scan# 2685

Delta R.T. -0.00 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

Instrument :

BNA\_E

ClientSampleId :

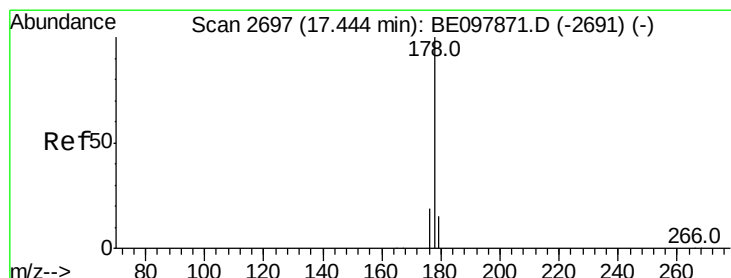
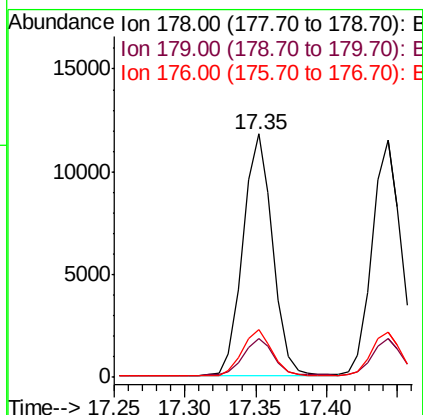
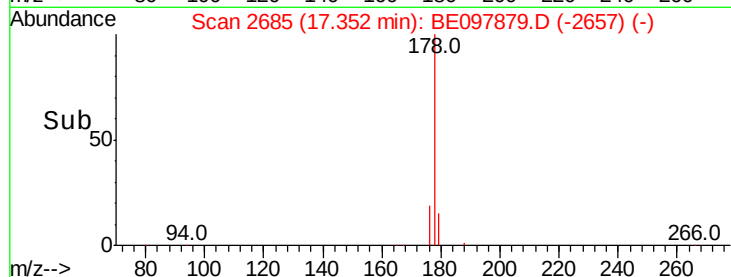
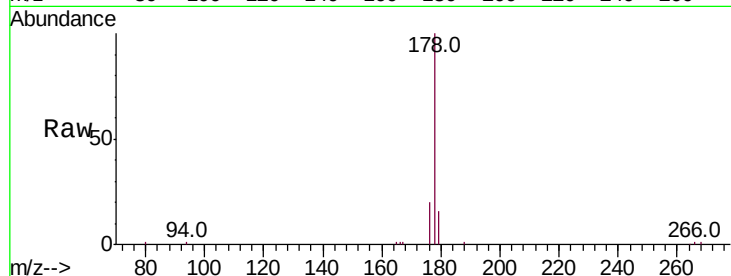
Tot Ion:178 Resp: 17227

Ion Ratio Lower Upper

178 100

179 15.8 12.8 19.2

176 19.6 14.9 22.3



#13

Anthracene

Concen: 0.421 ng/ul

RT: 17.44 min Scan# 2698

Delta R.T. -0.00 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

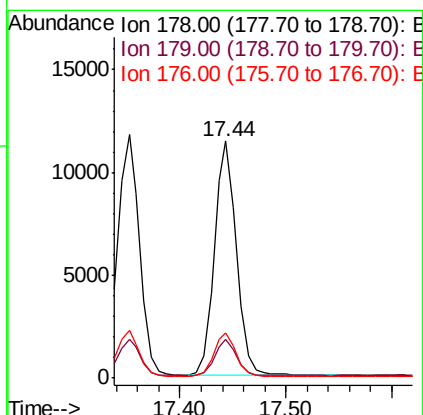
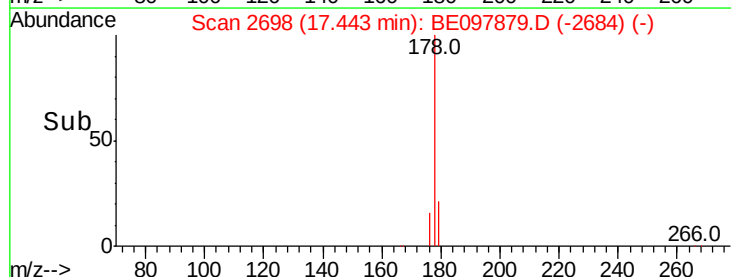
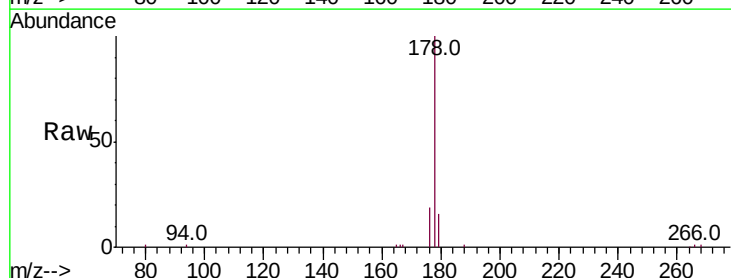
Tgt Ion:178 Resp: 16629

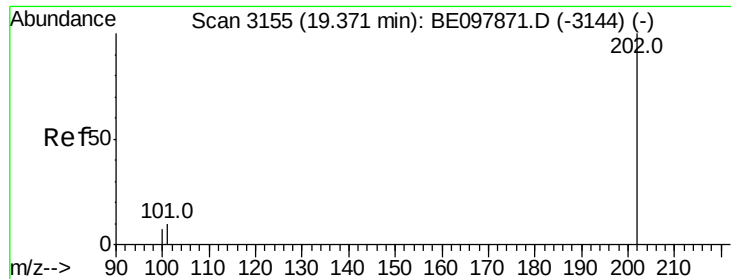
Ion Ratio Lower Upper

178 100

179 16.3 12.9 19.3

176 19.1 15.5 23.3

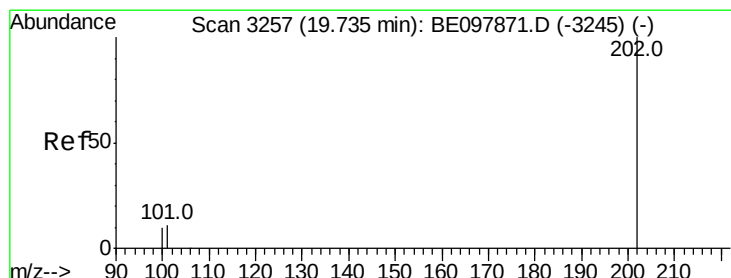
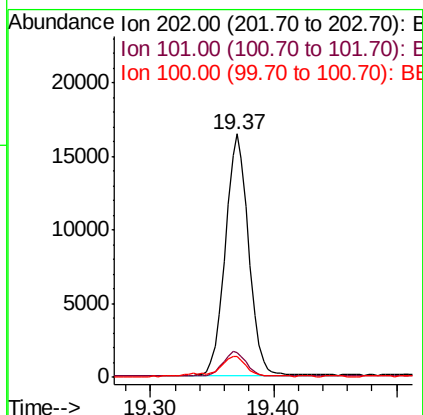
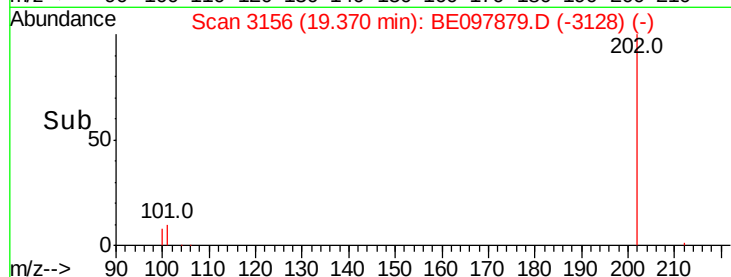
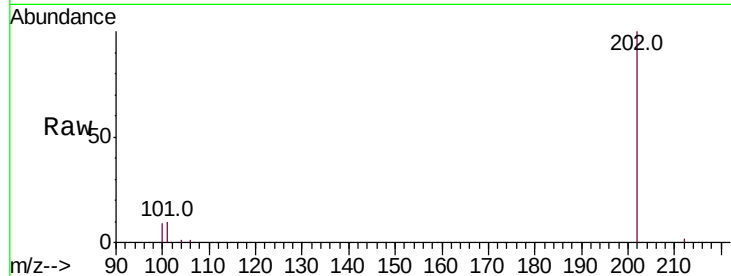




#15  
**Fluoranthene**  
 Concen: 0.393 ng/ul  
 RT: 19.37 min Scan# 3156  
 Delta R.T. -0.00 min  
 Lab File: BE097879.D  
 Acq: 12 Oct 2018 9:52

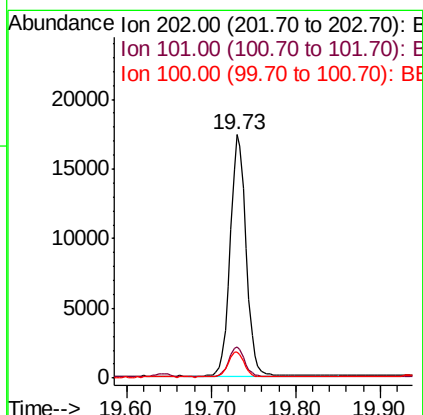
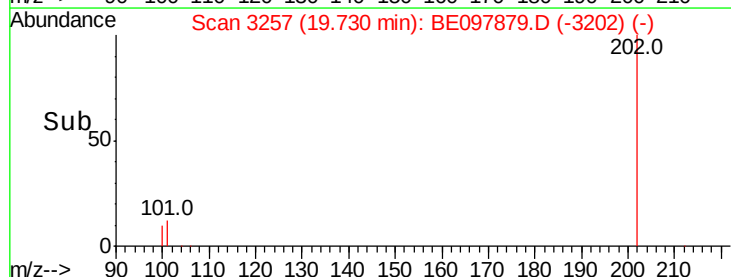
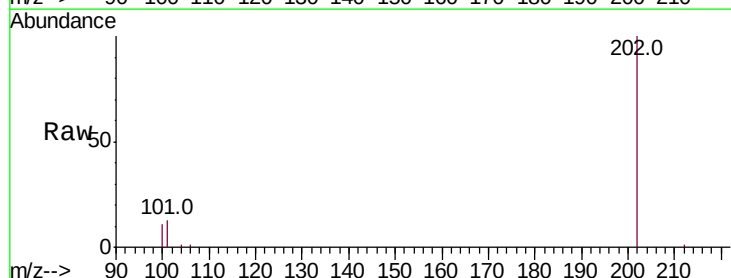
Instrument :  
 BNA\_E  
 ClientSampleId :

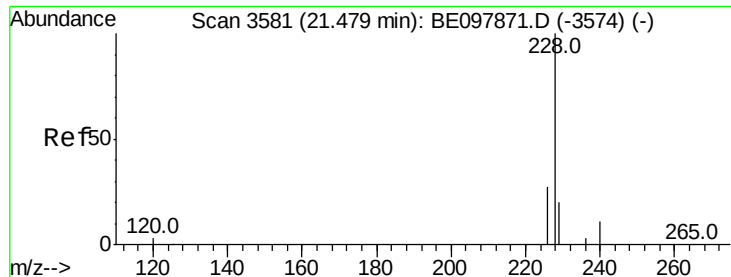
Tot Ion:202 Resp: 21483  
 Ion Ratio Lower Upper  
 202 100  
 101 10.2 0.0 29.3  
 100 8.8 0.0 27.5



#17  
**Pyrene**  
 Concen: 0.470 ng/ul  
 RT: 19.73 min Scan# 3257  
 Delta R.T. -0.00 min  
 Lab File: BE097879.D  
 Acq: 12 Oct 2018 9:52

Tgt Ion:202 Resp: 27460  
 Ion Ratio Lower Upper  
 202 100  
 101 12.6 8.8 13.2  
 100 10.5 7.9 11.9





#18

Benzo(a)anthracene

Concen: 0.528 ng/ul

RT: 21.47 min Scan# 3581

Delta R.T. -0.01 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

Instrument :

BNA\_E

ClientSampleId :

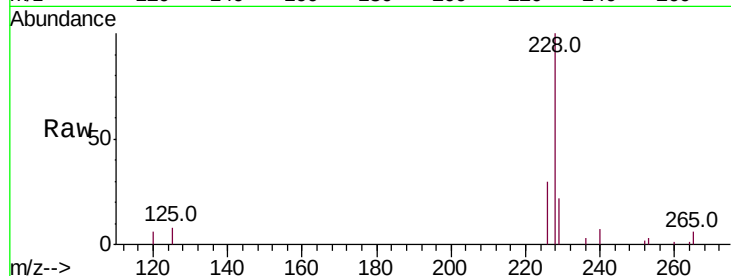
Tot Ion:228 Resp: 31309

Ion Ratio Lower Upper

228 100

229 21.9 16.4 24.6

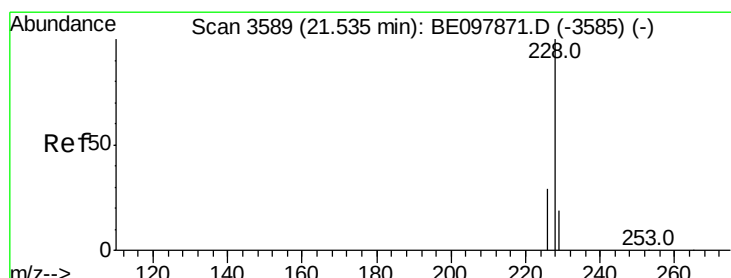
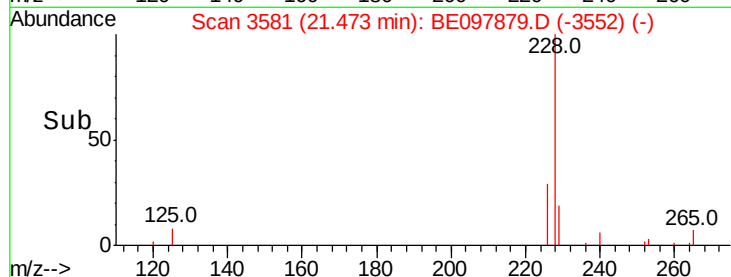
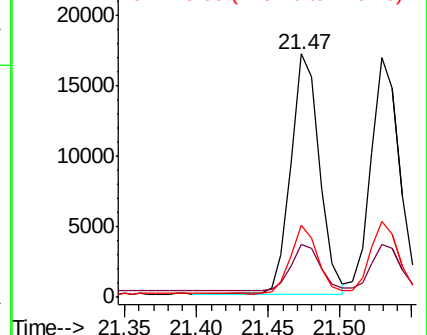
226 29.7 21.5 32.3



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: 0.444 ng/ul

RT: 21.53 min Scan# 3589

Delta R.T. -0.01 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

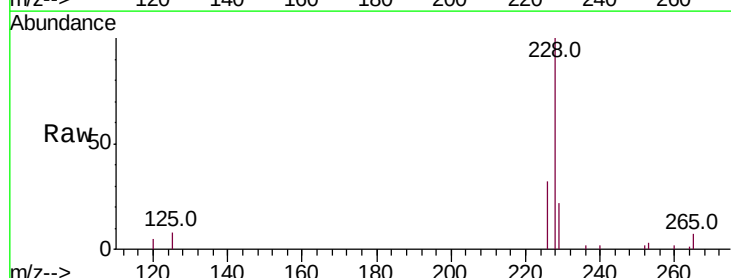
Tgt Ion:228 Resp: 23638

Ion Ratio Lower Upper

228 100

226 31.5 23.0 34.4

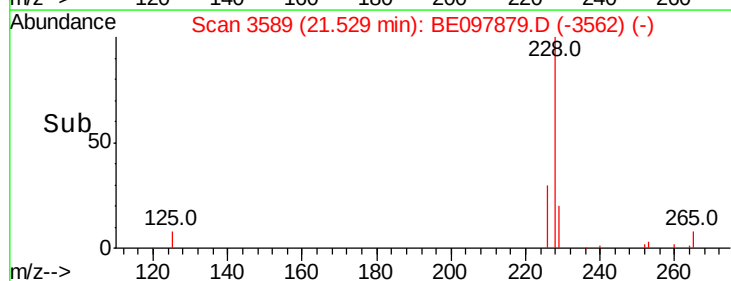
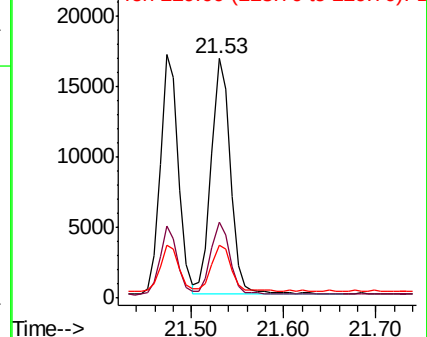
229 22.3 15.5 23.3



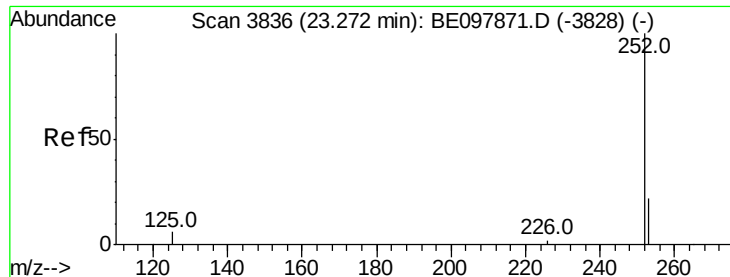
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#21

Benzo(b)fluoranthene

Concen: 0.415 ng/ul

RT: 23.27 min Scan# 3837

Delta R.T. 0.00 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

Instrument :

BNA\_E

ClientSampleId :

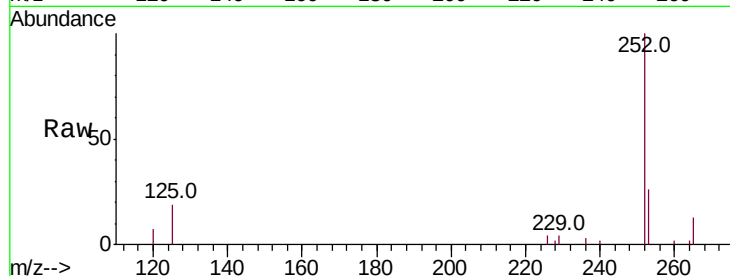
Tot Ion:252 Resp: 21916

Ion Ratio Lower Upper

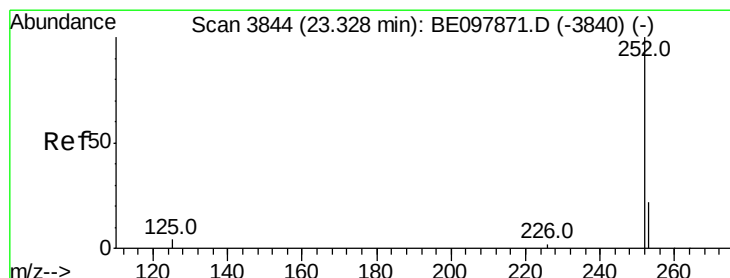
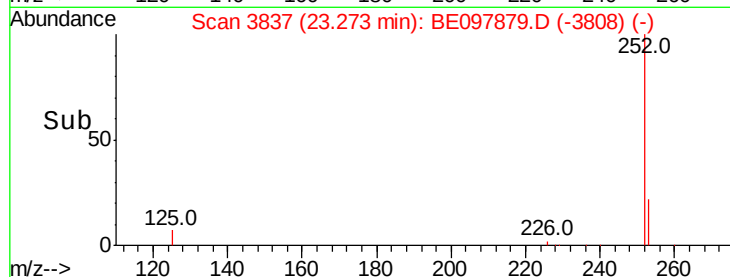
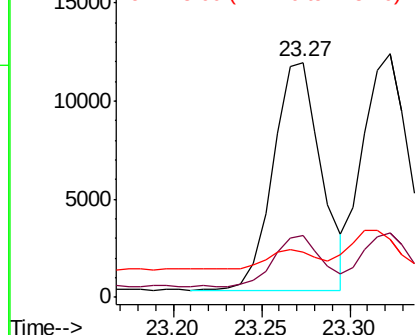
252 100

253 26.1 0.0 47.0

125 19.5 0.0 18.2#



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



#22

Benzo(k)fluoranthene

Concen: 0.395 ng/ul

RT: 23.32 min Scan# 3844

Delta R.T. -0.01 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

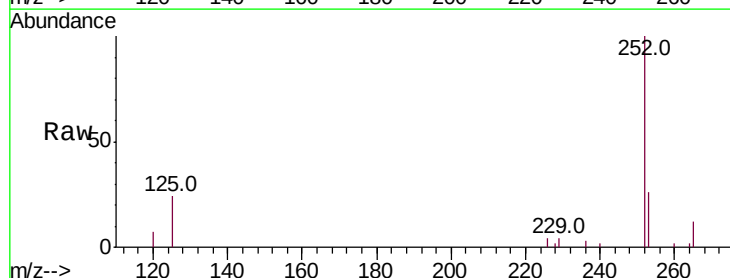
Tgt Ion:252 Resp: 22327

Ion Ratio Lower Upper

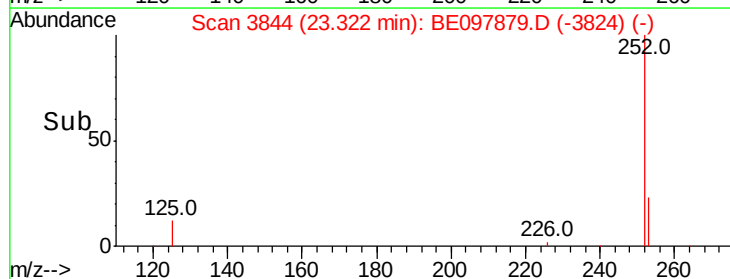
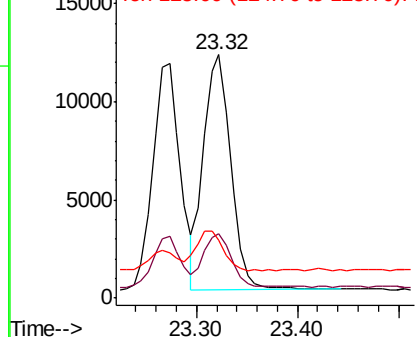
252 100

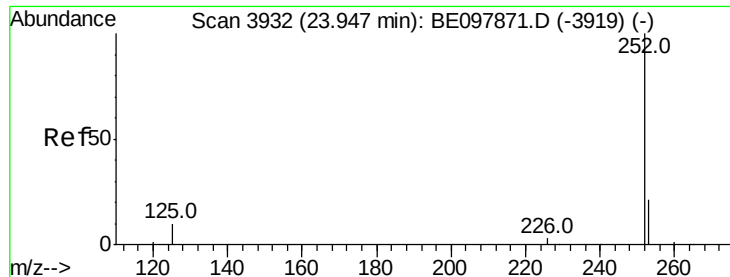
253 26.4 17.8 26.6

125 23.6 9.4 14.0#



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





#23

Benzo(a)pyrene

Concen: 0.414 ng/ul

RT: 23.94 min Scan# 3932

Delta R.T. -0.01 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

Instrument :

BNA\_E

ClientSampleId :

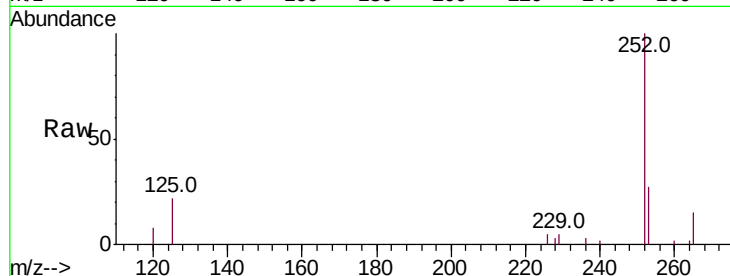
Tot Ion:252 Resp: 21496

Ion Ratio Lower Upper

252 100

253 26.6 18.2 27.4

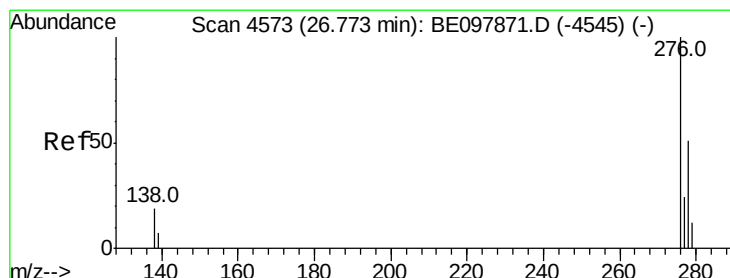
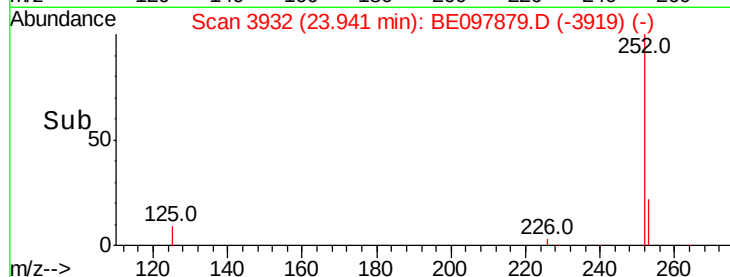
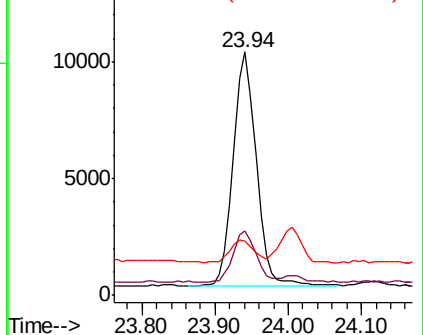
125 22.2 8.3 12.5#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.415 ng/ul

RT: 26.77 min Scan# 4572

Delta R.T. -0.01 min

Lab File: BE097879.D

Acq: 12 Oct 2018 9:52

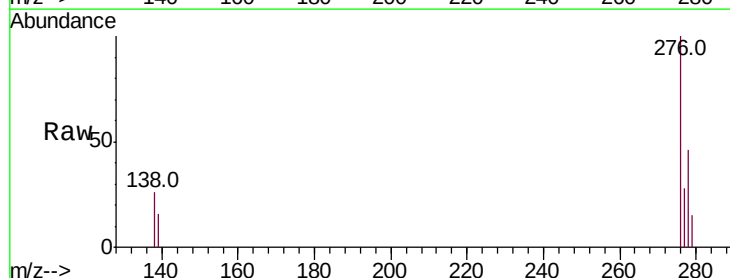
Tgt Ion:276 Resp: 24447

Ion Ratio Lower Upper

276 100

138 22.2 0.0 0.0#

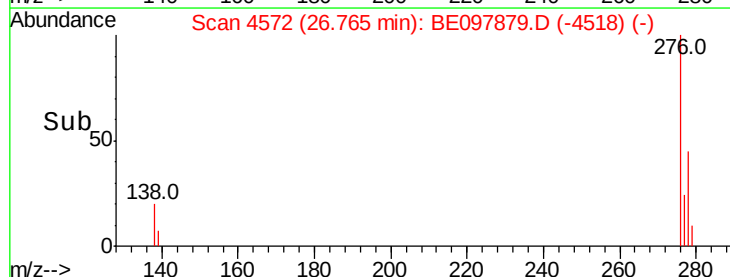
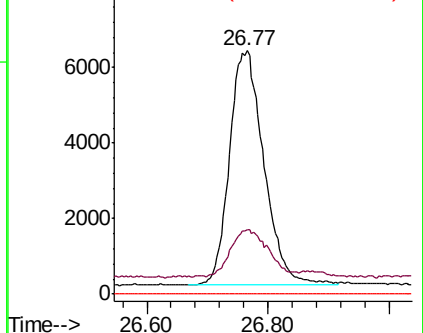
227 0.0 0.0 0.0

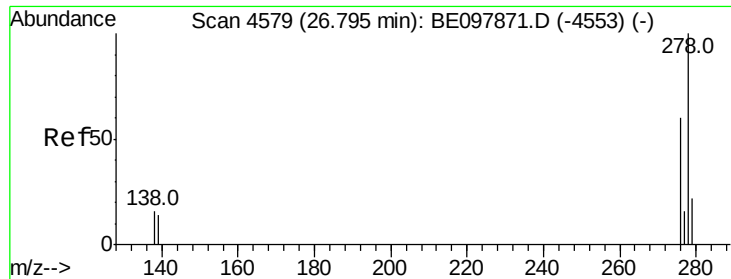


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

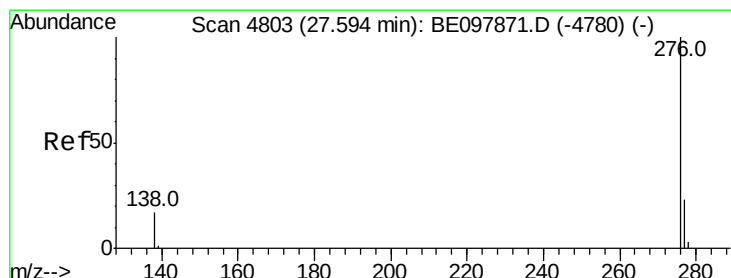
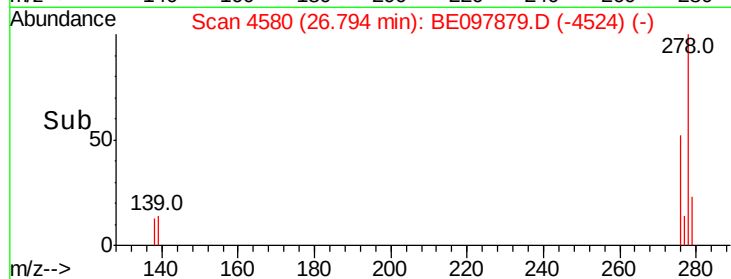
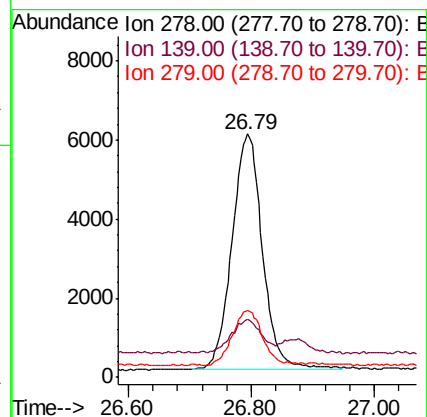
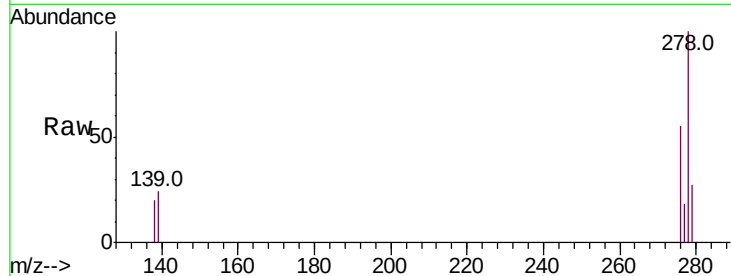




#25  
Dibenzo(a,h)anthracene  
Concen: 0.421 ng/ul  
RT: 26.79 min Scan# 4580  
Delta R.T. -0.00 min  
Lab File: BE097879.D  
Acq: 12 Oct 2018 9:52

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 20493  
Ion Ratio Lower Upper  
278 100  
139 23.8 10.9 16.3#  
279 27.3 18.8 28.2



#26  
Benzo(g,h,i)perylene  
Concen: 0.400 ng/ul  
RT: 27.59 min Scan# 4804  
Delta R.T. -0.00 min  
Lab File: BE097879.D  
Acq: 12 Oct 2018 9:52

Tgt Ion:276 Resp: 20526  
Ion Ratio Lower Upper  
276 100  
138 25.8 14.3 21.5#  
277 28.0 19.5 29.3

