

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112019\  
 Data File : BN008670.D  
 Acq On : 20 Nov 2019 20:56  
 Operator : JU  
 Sample : K5851-08  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Nov 21 00:43:22 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 20 04:45:41 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 3989     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.38 | 136  | 14594    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.24 | 164  | 8509     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.98 | 188  | 17274    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.18 | 240  | 13663    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.35 | 264  | 13468    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.97 | 152  | 4370     | 0.18 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.01 | 212  | 10025    | 0.19 | ng/ul | 0.00     |

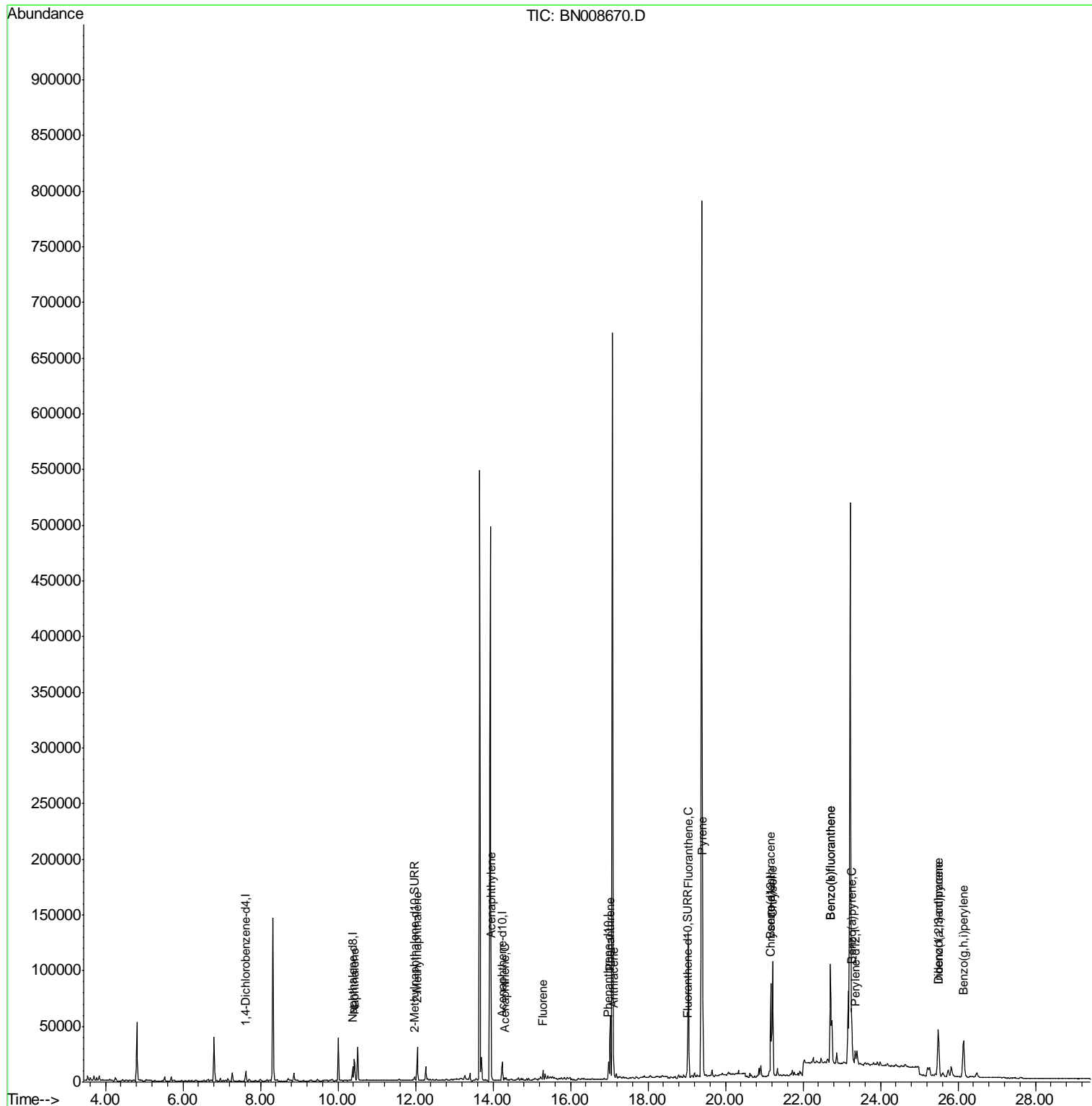
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Naphthalene             | 10.42 | 128  | 26208    | 0.596 | ng/ul  | 99     |
| 5) 2-Methylnaphthalene     | 12.04 | 142  | 20575    | 0.670 | ng/ul  | 100    |
| 7) Acenaphthylene          | 13.95 | 152  | 5880     | 0.125 | ng/ul# | 91     |
| 8) Acenaphthene            | 14.30 | 153  | 2110     | 0.060 | ng/ul  | 95     |
| 9) Fluorene                | 15.29 | 166  | 4297     | 0.105 | ng/ul# | 88     |
| 12) Phenanthrene           | 17.02 | 178  | 58892    | 1.011 | ng/ul  | 98     |
| 13) Anthracene             | 17.11 | 178  | 14275    | 0.259 | ng/ul# | 95     |
| 15) Fluoranthene           | 19.05 | 202  | 112190   | 1.568 | ng/ul  | 95     |
| 17) Pyrene                 | 19.41 | 202  | 124490   | 2.271 | ng/ul  | 98     |
| 18) Benzo(a)anthracene     | 21.17 | 228  | 66324    | 1.207 | ng/ul  | 95     |
| 19) Chrysene               | 21.22 | 228  | 99894    | 1.851 | ng/ul  | 97     |
| 21) Benzo(b)fluoranthene   | 22.71 | 252  | 163215   | 2.939 | ng/ul  | 91     |
| 22) Benzo(k)fluoranthene   | 22.71 | 252  | 163215   | 2.963 | ng/ul# | 94     |
| 23) Benzo(a)pyrene         | 23.26 | 252  | 61454    | 1.179 | ng/ul# | 84     |
| 24) Indeno(1,2,3-cd)pyrene | 25.49 | 276  | 59474    | 0.976 | ng/ul# | 99     |
| 25) Dibenzo(a,h)anthracene | 25.50 | 278  | 18283    | 0.371 | ng/ul# | 65     |
| 26) Benzo(a,h,i)perylene   | 26.14 | 276  | 63861    | 1.252 | ng/ul  | 97     |

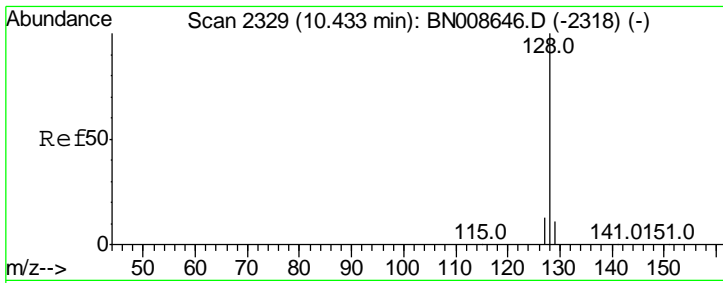
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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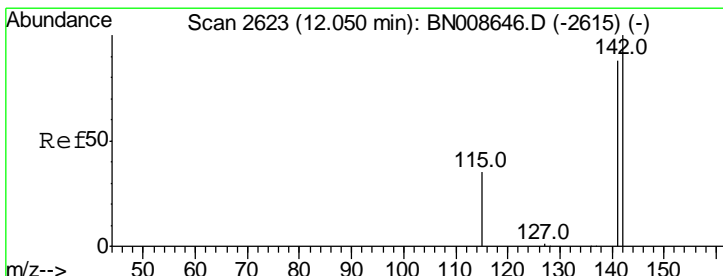
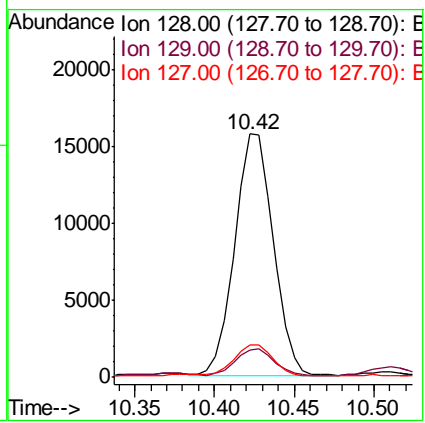
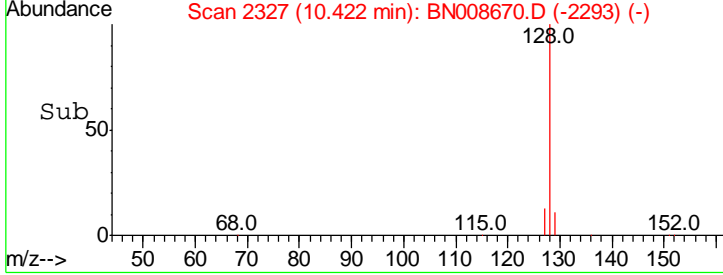
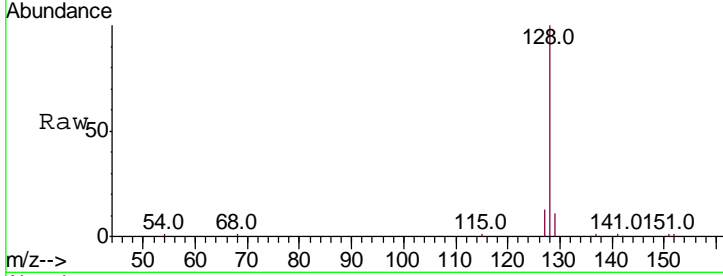


#3  
 Naphthalene  
 Concen: 0.596 ng/ul  
 RT: 10.42 min Scan# 2327  
 Delta R.T. -0.01 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

Instrument :  
 BNA\_N  
 ClientSampled :

Tgt Ion:128 Resp: 26208

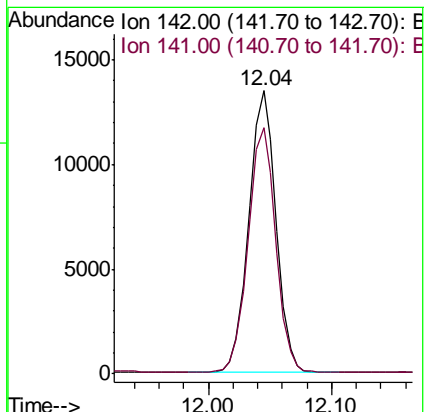
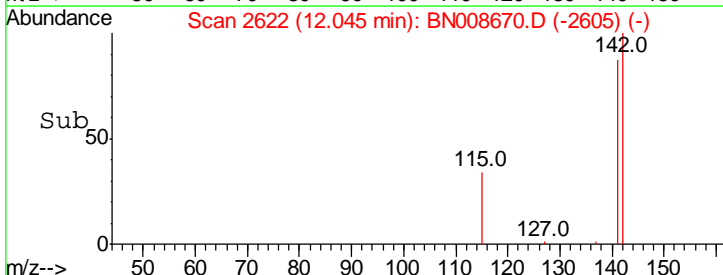
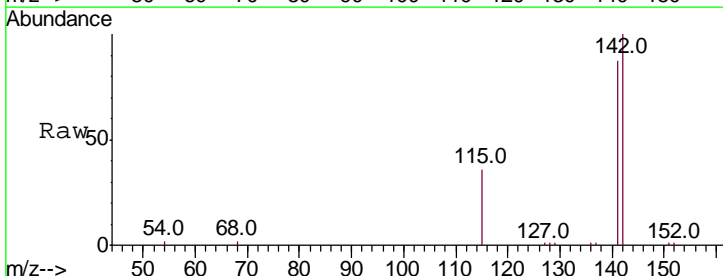
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.3  | 9.7   | 14.5  |
| 127 | 13.4  | 10.8  | 16.2  |

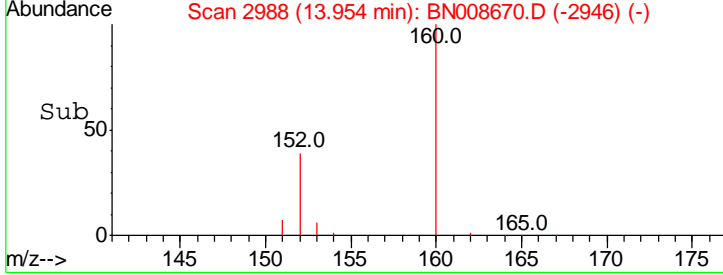
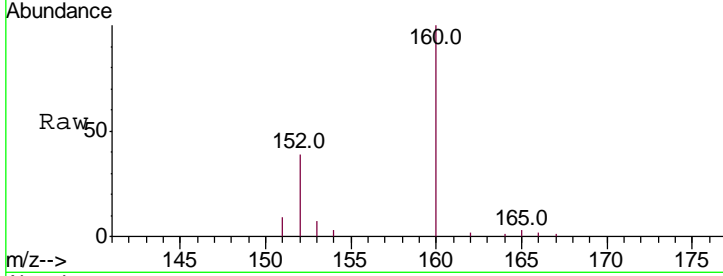
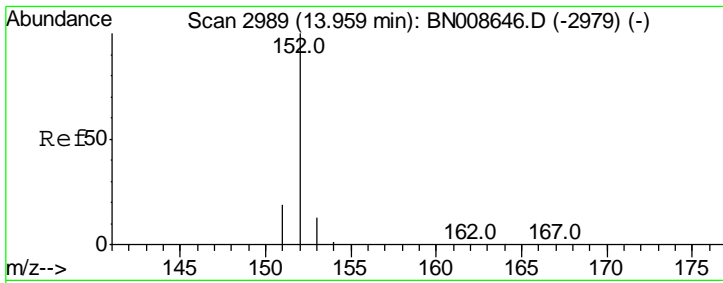


#5  
 2-Methylnaphthalene  
 Concen: 0.670 ng/ul  
 RT: 12.04 min Scan# 2622  
 Delta R.T. -0.01 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

Tgt Ion:142 Resp: 20575

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 87.7  | 70.5  | 105.7 |

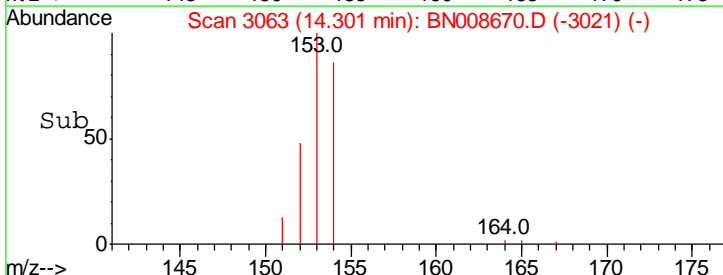
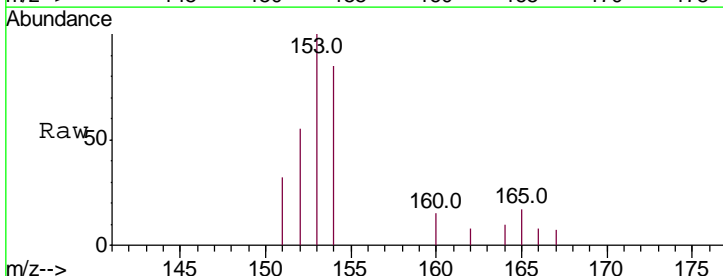
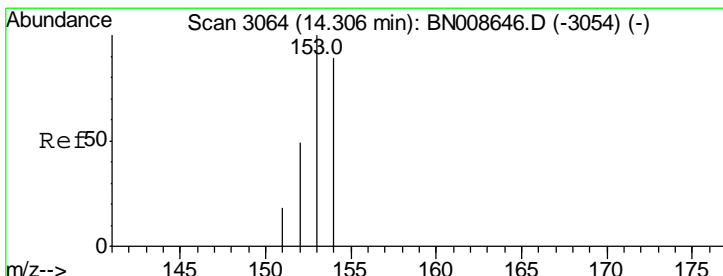
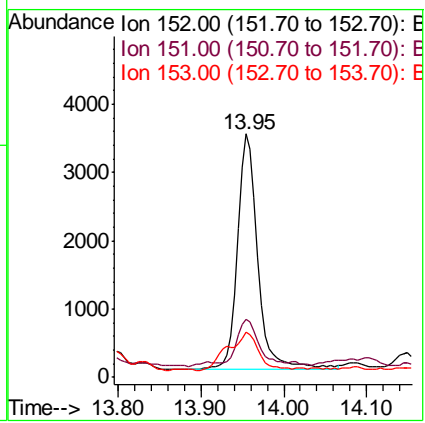




#7  
 Acenaphthylene  
 Concen: 0.125 ng/ul  
 RT: 13.95 min Scan# 2988  
 Delta R.T. -0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

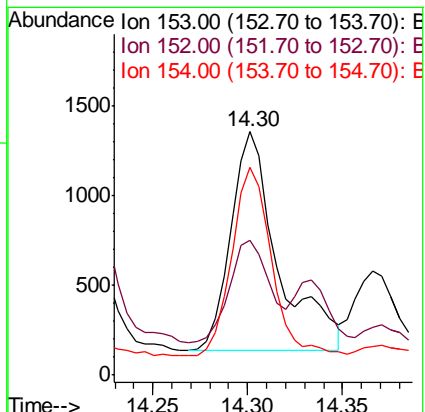
Instrument :  
 BNA\_N  
 ClientSampled :

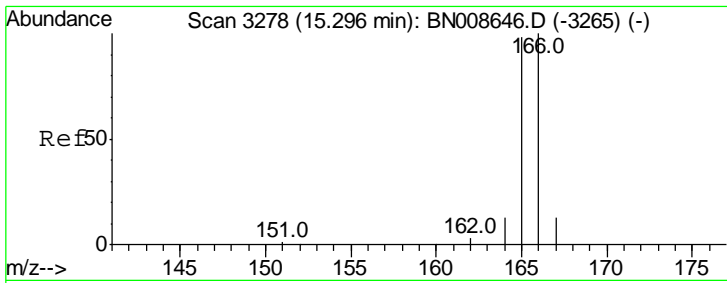
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 152     | 100  |       |       |
| 151     | 23.8 | 16.6  | 24.8  |
| 153     | 18.6 | 11.1  | 16.7  |



#8  
 Acenaphthene  
 Concen: 0.060 ng/ul  
 RT: 14.30 min Scan# 3063  
 Delta R.T. -0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 153     | 100  |       |       |
| 152     | 55.2 | 39.6  | 59.4  |
| 154     | 85.3 | 70.6  | 106.0 |

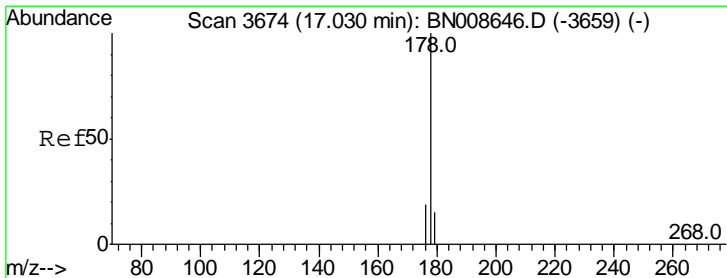
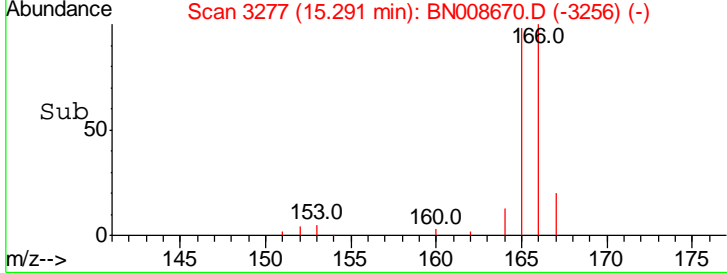
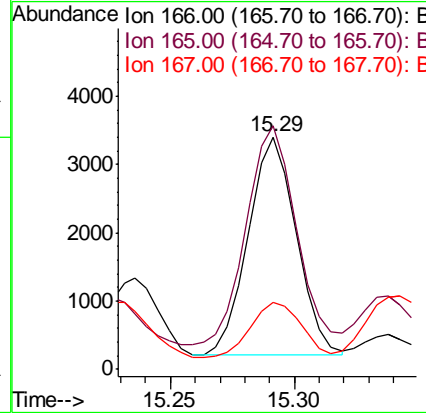
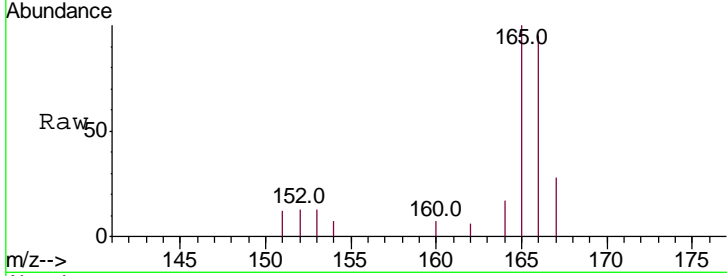




#9  
 Fluorene  
 Concen: 0.105 ng/ul  
 RT: 15.29 min Scan# 3277  
 Delta R.T. -0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

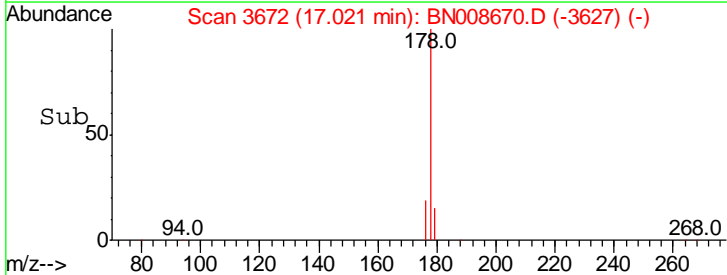
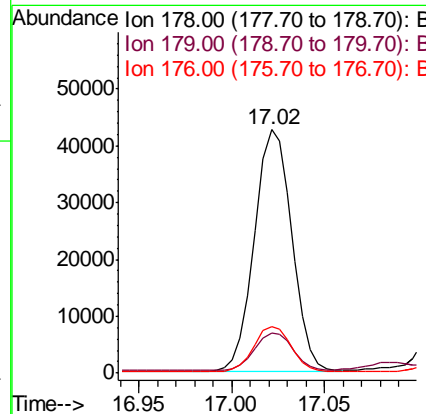
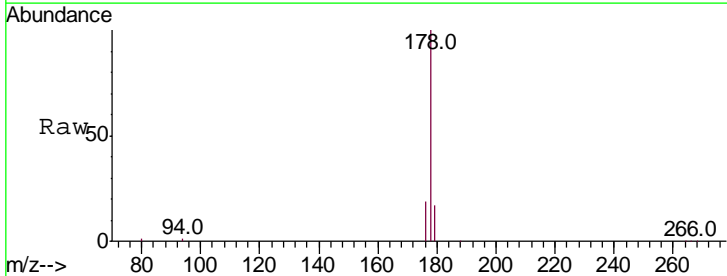
Instrument :  
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 ClientSampled :

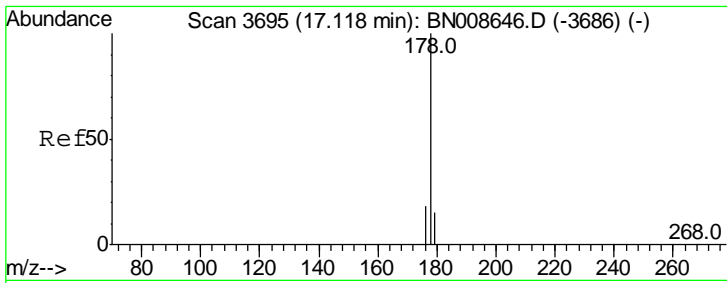
| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 104.7 | 77.4  | 116.0 |
| 167     | 28.9  | 11.4  | 17.0  |



#12  
 Phenanthrene  
 Concen: 1.011 ng/ul  
 RT: 17.02 min Scan# 3672  
 Delta R.T. -0.01 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178     | 100  |       |       |
| 179     | 16.6 | 12.8  | 19.2  |
| 176     | 19.2 | 16.0  | 24.0  |

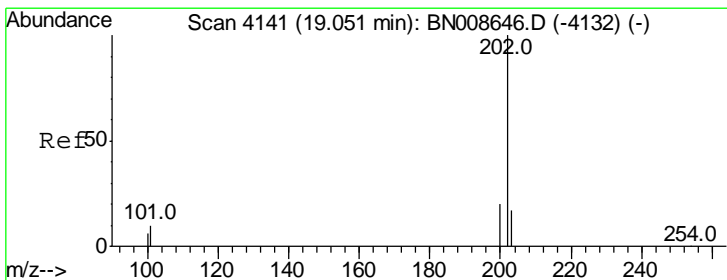
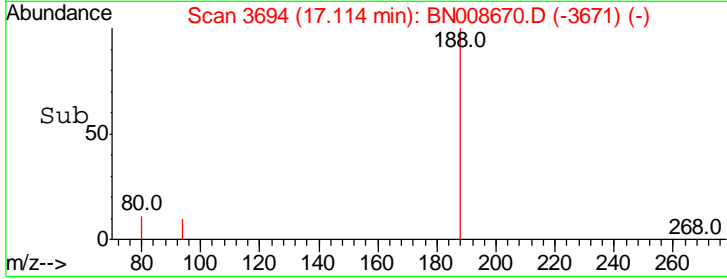
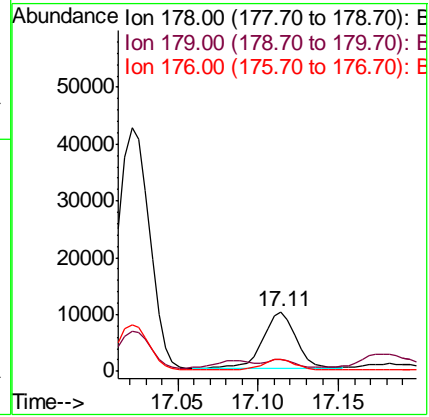
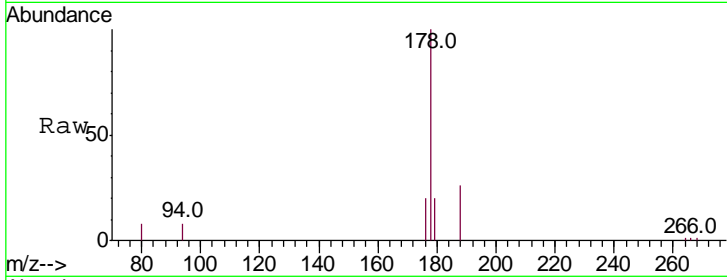




#13  
 Anthracene  
 Concen: 0.259 ng/ul  
 RT: 17.11 min Scan# 3694  
 Delta R.T. -0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

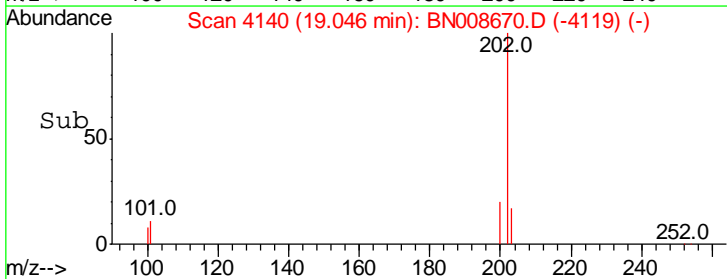
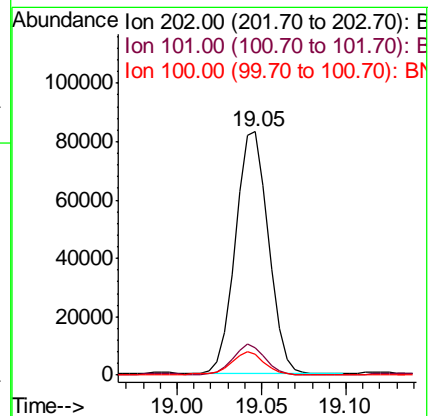
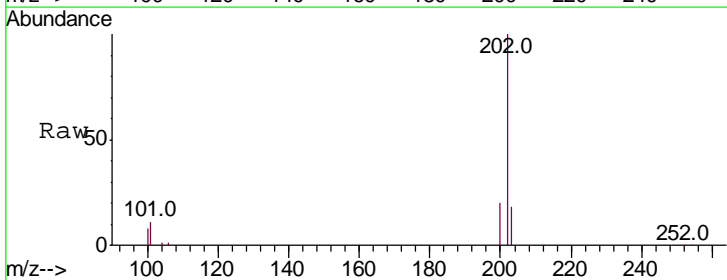
Instrument :  
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 ClientSampled :

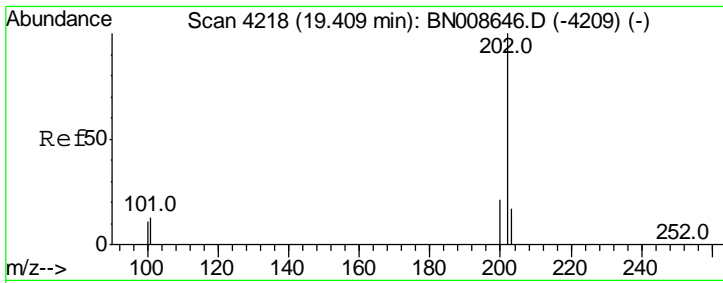
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178     | 100  |       |       |
| 179     | 20.0 | 13.0  | 19.4# |
| 176     | 20.1 | 15.3  | 22.9  |



#15  
 Fluoranthene  
 Concen: 1.568 ng/ul  
 RT: 19.05 min Scan# 4140  
 Delta R.T. -0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202     | 100  |       |       |
| 101     | 11.4 | 0.0   | 29.6  |
| 100     | 8.4  | 0.0   | 27.0  |

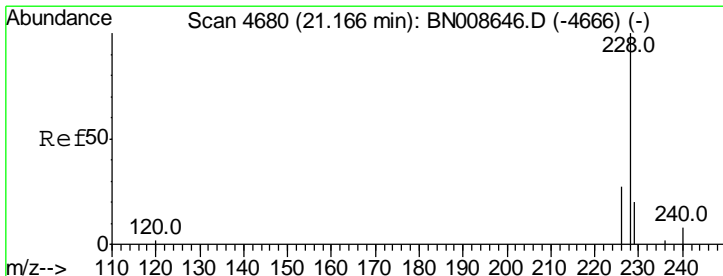
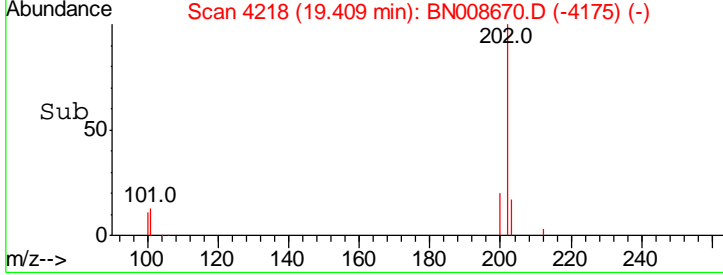
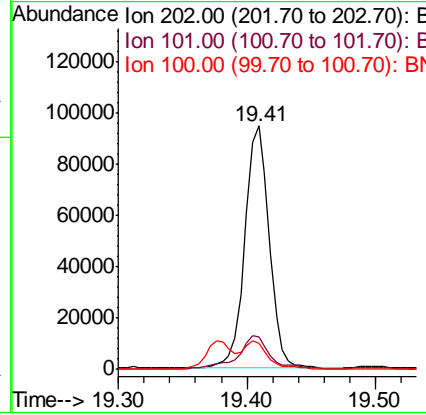
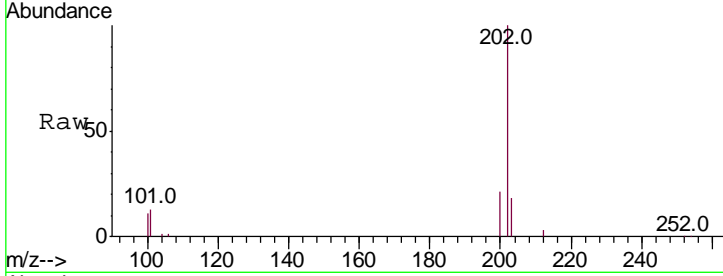




#17  
 Pyrene  
 Concen: 2.271 ng/ul  
 RT: 19.41 min Scan# 4218  
 Delta R.T. 0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

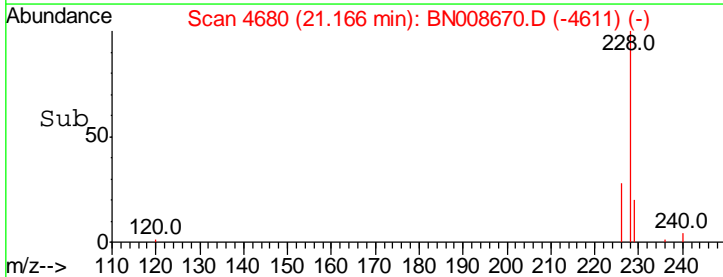
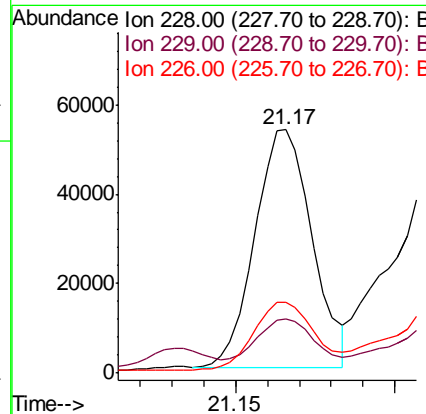
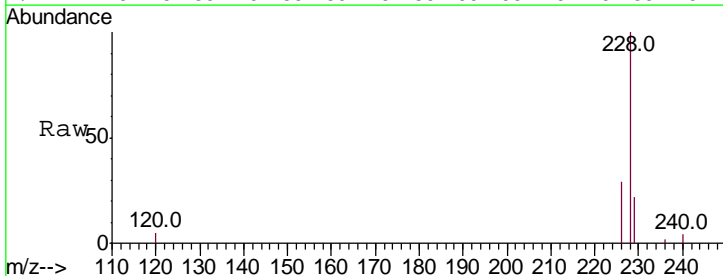
Instrument :  
 BNA\_N  
 ClientSampled :

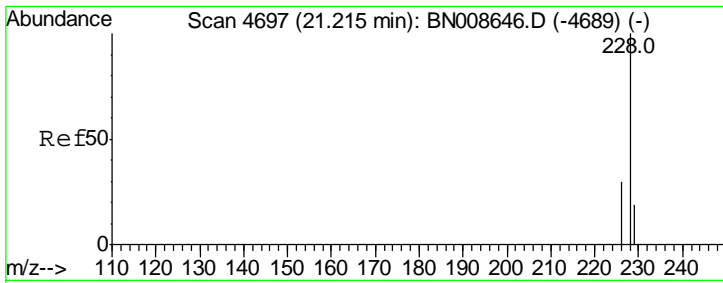
| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 202     | 124490 |       |       |
| 101     | 13.3   | 10.2  | 15.2  |
| 100     | 10.8   | 8.2   | 12.2  |



#18  
 Benzo(a)anthracene  
 Concen: 1.207 ng/ul  
 RT: 21.17 min Scan# 4680  
 Delta R.T. 0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 66324 |       |       |
| 229     | 22.2  | 15.8  | 23.6  |
| 226     | 29.3  | 21.6  | 32.4  |

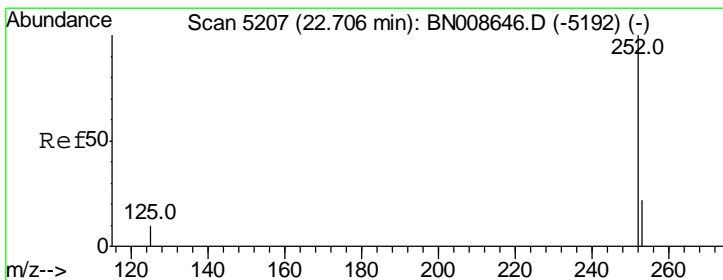
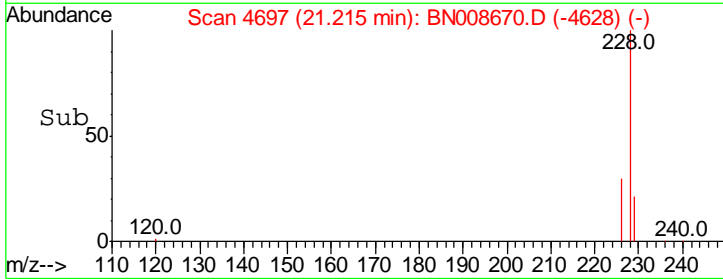
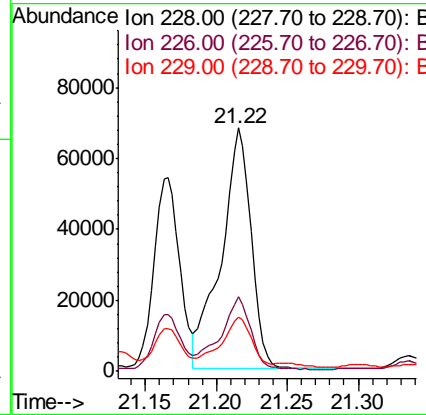
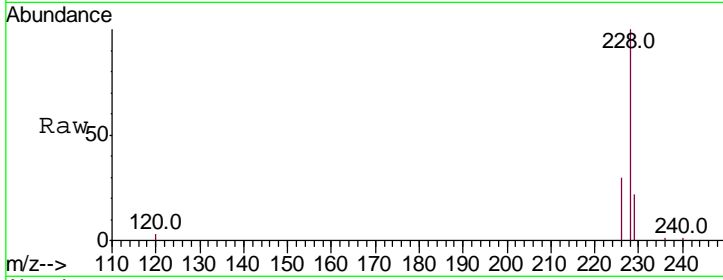




#19  
 Chrysene  
 Concen: 1.851 ng/ul  
 RT: 21.22 min Scan# 4697  
 Delta R.T. 0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

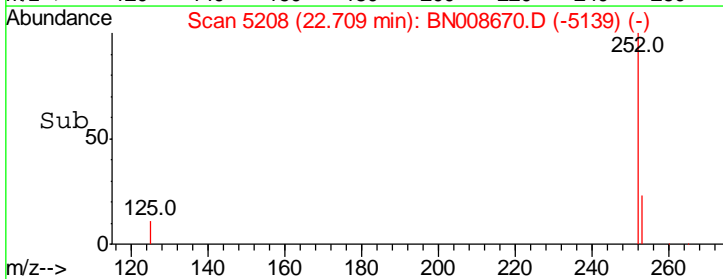
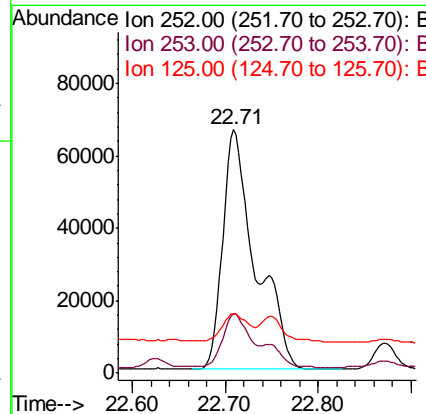
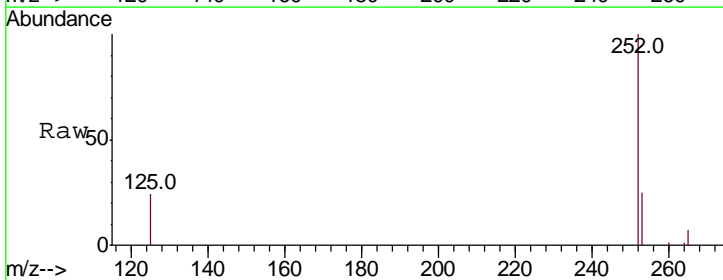
Instrument :  
 BNA\_N  
 ClientSampled :

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228     | 100  |       |       |
| 226     | 30.4 | 24.5  | 36.7  |
| 229     | 22.5 | 15.5  | 23.3  |

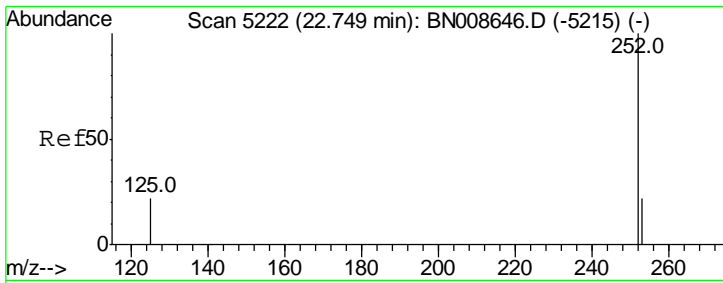


#21  
 Benzo(b)fluoranthene  
 Concen: 2.939 ng/ul  
 RT: 22.71 min Scan# 5208  
 Delta R.T. 0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252     | 100  |       |       |
| 253     | 24.6 | 0.0   | 50.2  |
| 125     | 24.3 | 0.0   | 30.0  |





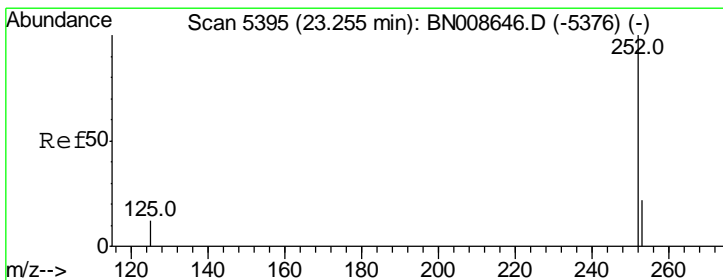
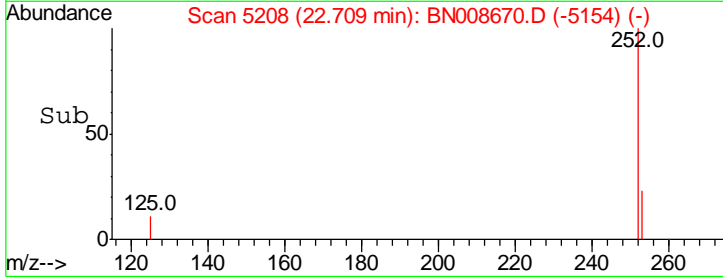
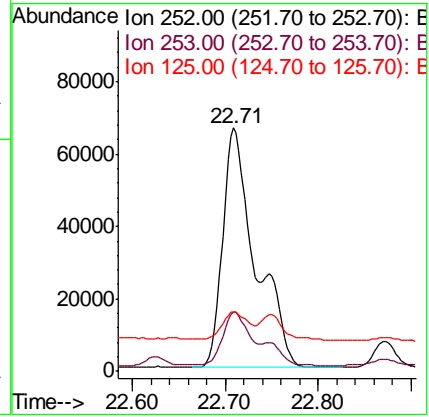
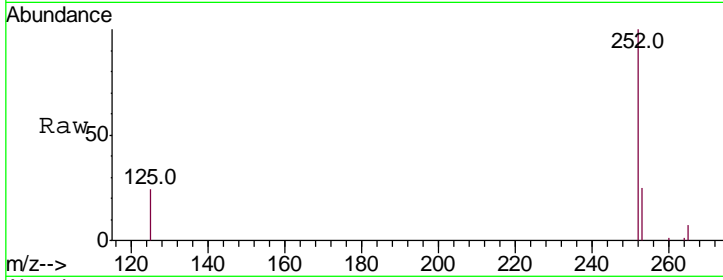


#22  
 Benzo(k)fluoranthene  
 Concen: 2.963 ng/ul  
 RT: 22.71 min Scan# 5208  
 Delta R.T. -0.04 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

Instrument :  
 BNA\_N  
 ClientSampled :

Tgt Ion: 252 Resp: 163215

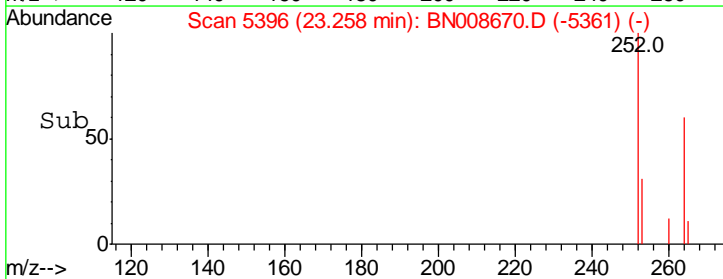
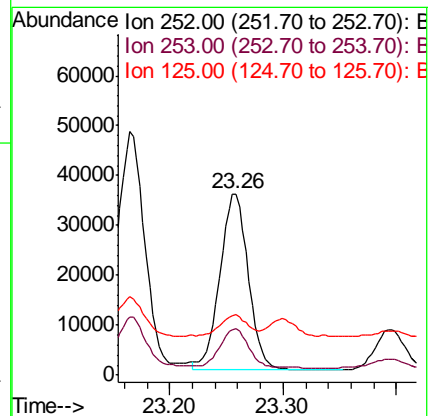
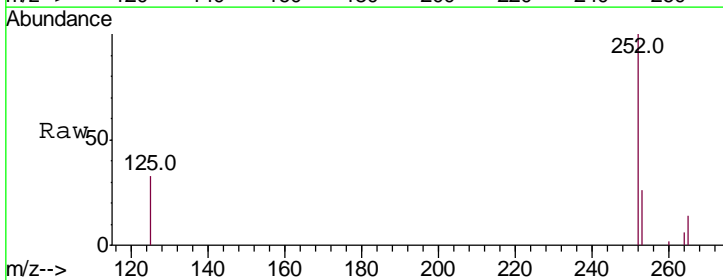
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.6  | 20.5  | 30.7  |
| 125 | 24.3  | 15.0  | 22.4  |

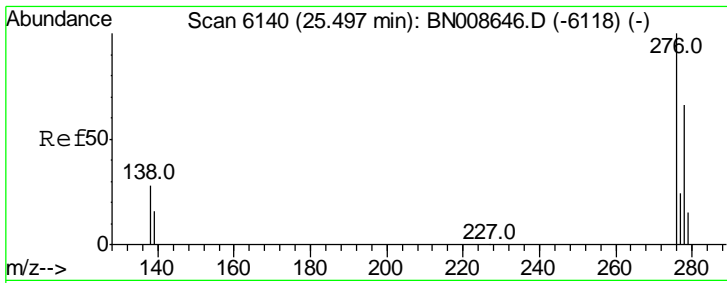


#23  
 Benzo(a)pyrene  
 Concen: 1.179 ng/ul  
 RT: 23.26 min Scan# 5396  
 Delta R.T. 0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

Tgt Ion: 252 Resp: 61454

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.5  | 21.4  | 32.2  |
| 125 | 33.3  | 13.8  | 20.8  |

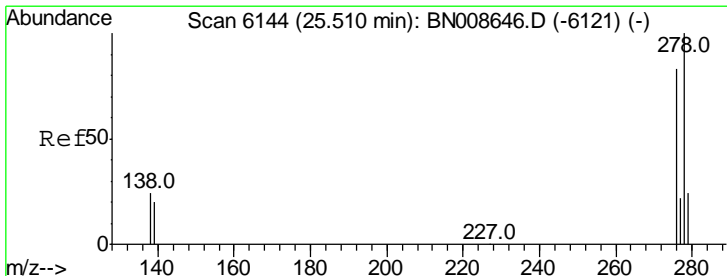
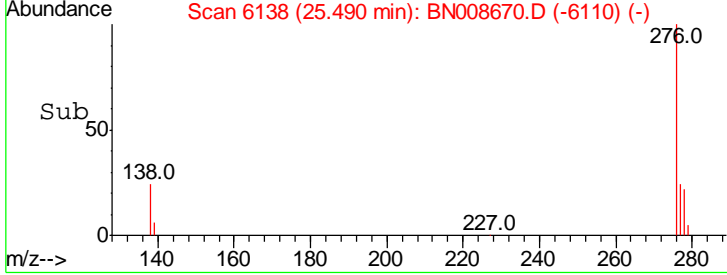
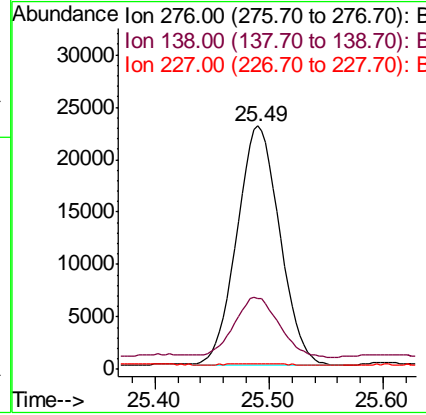
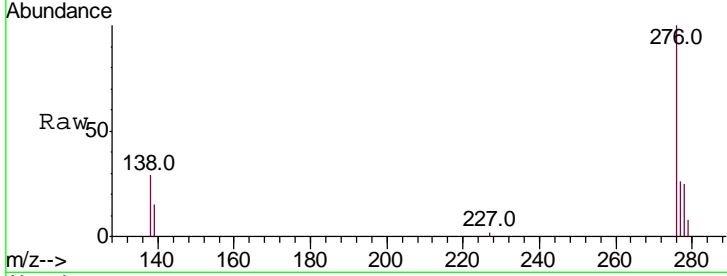




#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.976 ng/ul  
 RT: 25.49 min Scan# 6138  
 Delta R.T. -0.01 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

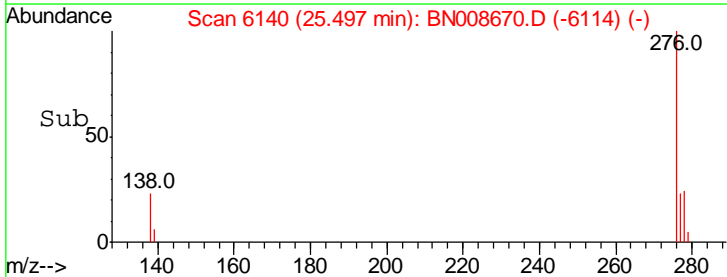
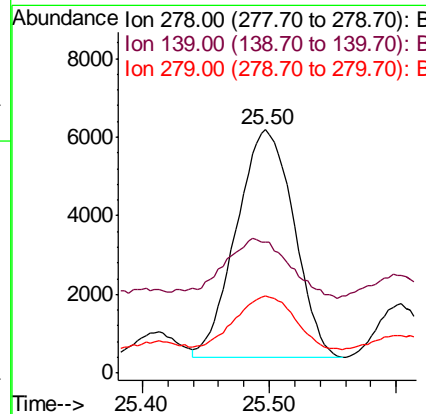
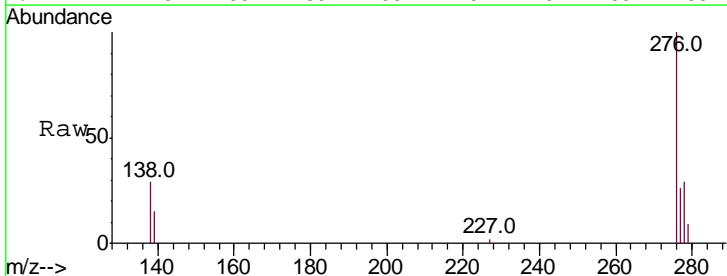
Instrument :  
 BNA\_N  
 ClientSampled :

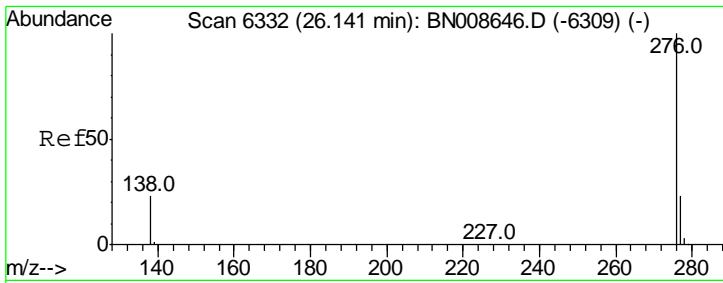
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 276     | 100  |       |       |
| 138     | 26.3 | 21.7  | 32.5  |
| 227     | 0.4  | 0.2   | 0.2#  |



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.371 ng/ul  
 RT: 25.50 min Scan# 6140  
 Delta R.T. -0.01 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 278     | 100  |       |       |
| 139     | 53.6 | 18.7  | 28.1# |
| 279     | 31.6 | 20.8  | 31.2# |





#26  
 Benzo(a,h,i)perylene  
 Concen: 1.252 ng/ul  
 RT: 26.14 min Scan# 6333  
 Delta R.T. 0.00 min  
 Lab File: BN008670.D  
 Acq: 20 Nov 2019 20:56

Instrument :  
 BNA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.2  | 20.0  | 30.0  |
| 277     | 24.7  | 20.0  | 30.0  |

