

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
 Data File : BN012950.D  
 Acq On : 07 Dec 2020 21:43  
 Operator : CG/JU  
 Sample : L4864-22DL 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B68DL

Manual Integrations  
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Quant Time: Dec 08 00:49:47 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 08 00:15:39 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.39  | 152  | 1048     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.15 | 136  | 4432     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.05 | 164  | 2416     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.81 | 188  | 4983     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.03 | 240  | 4234     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.13 | 264  | 4064     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.77 | 152  | 183      | 0.03   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.85 | 212  | 414      | 0.03   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 12) Phenanthrene            | 16.85 | 178  | 2977     | 0.178  | ng/ul  | 98       |
| 13) Anthracene              | 16.94 | 178  | 2166     | 0.152  | ng/ul  | 99       |
| 15) Fluoranthene            | 18.88 | 202  | 28237    | 1.422  | ng/ul  | 99       |
| 17) Pyrene                  | 19.25 | 202  | 29946    | 1.497  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.02 | 228  | 29592    | 1.689  | ng/ul  | 98       |
| 19) Chrysene                | 21.07 | 228  | 35240    | 1.821  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.51 | 252  | 51668m   | 2.748  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.55 | 252  | 15861m   | 0.763  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.04 | 252  | 29930    | 1.716  | ng/ul# | 85       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.19 | 276  | 18900    | 0.825  | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 25.19 | 278  | 4914     | 0.271  | ng/ul  | 98       |
| 26) Benzo(g,h,i)perylene    | 25.82 | 276  | 15204    | 0.733  | ng/ul  | 98       |

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

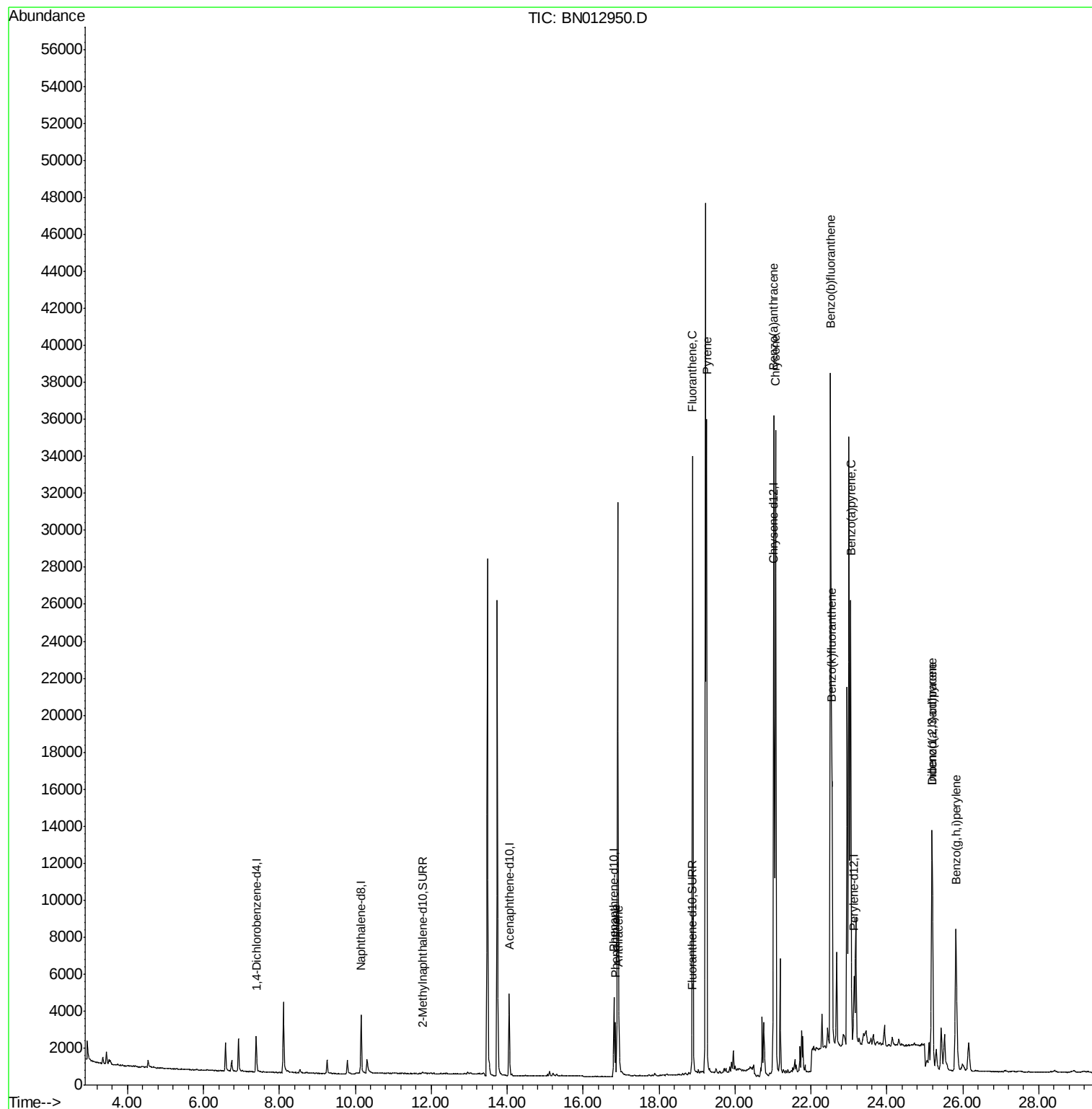
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
Data File : BN012950.D  
Acq On : 07 Dec 2020 21:43  
Operator : CG/JU  
Sample : L4864-22DL 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

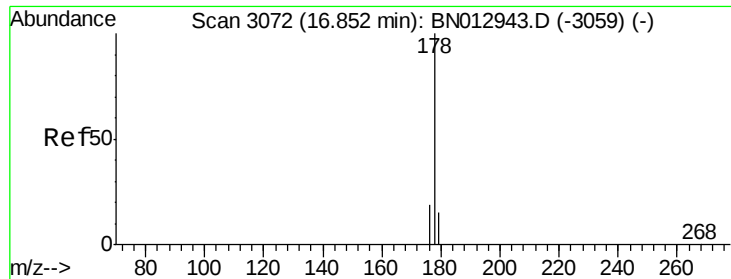
Instrument :  
BNA\_N  
ClientSampleId :  
C0B68DL

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Quant Time: Dec 08 00:49:47 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 08 00:15:39 2020  
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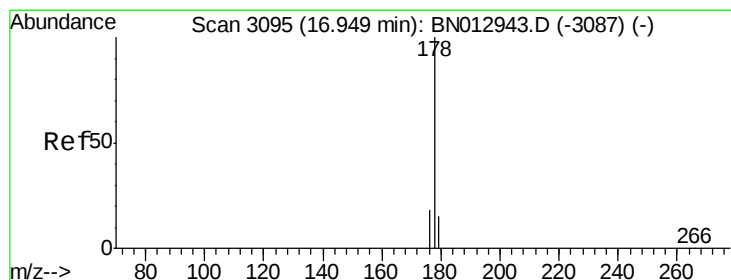
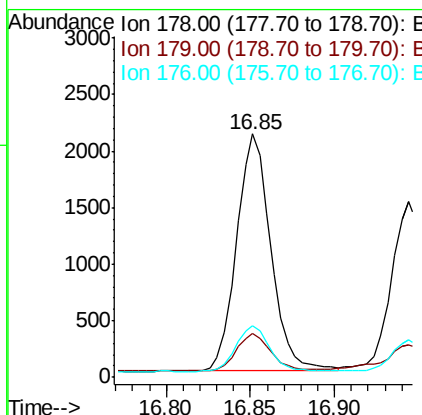
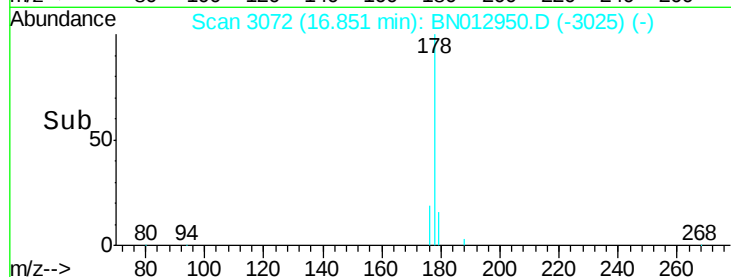
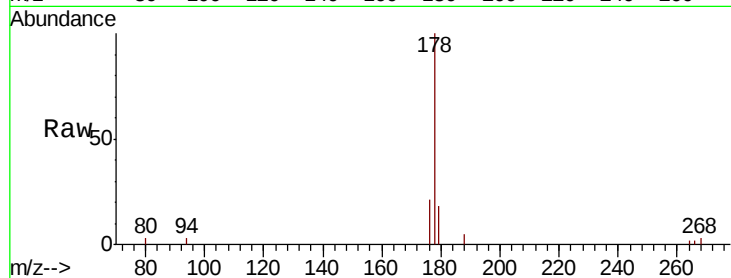
#12  
Phenanthrene  
Concen: 0.178 ng/ul  
RT: 16.85 min Scan# 3072  
Delta R.T. -0.00 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

Instrument :  
BNA\_N  
ClientSampleId :  
C0B68DL

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 2977      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 18.2  | 13.6 20.4 |
| 176         | 21.2  | 16.4 24.6 |

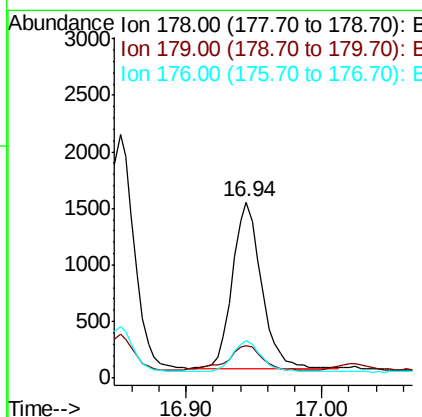
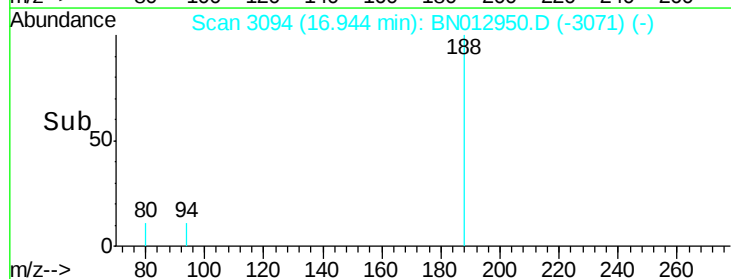
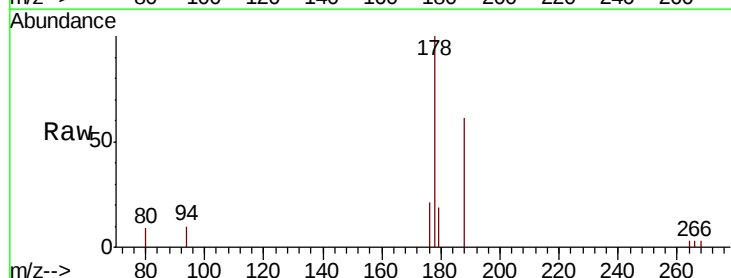
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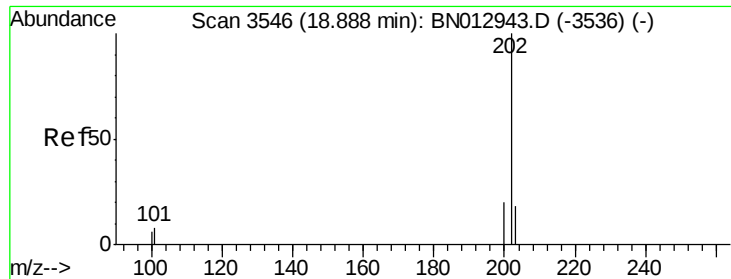
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#13  
Anthracene  
Concen: 0.152 ng/ul  
RT: 16.94 min Scan# 3094  
Delta R.T. -0.00 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 2166      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 18.5  | 14.6 21.8 |
| 176         | 21.0  | 17.1 25.7 |





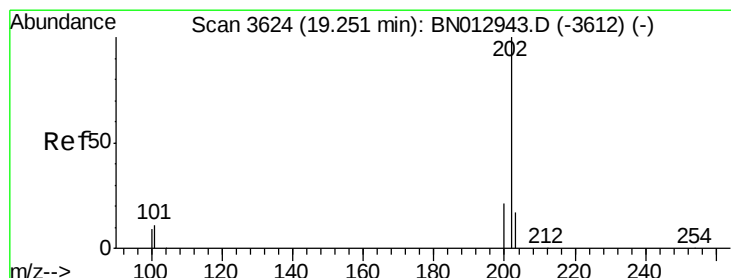
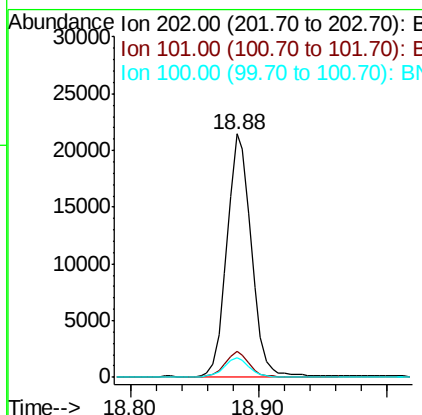
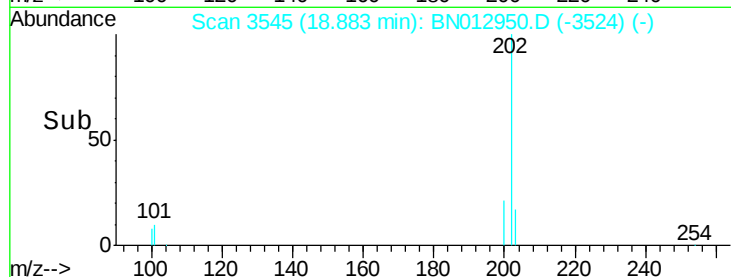
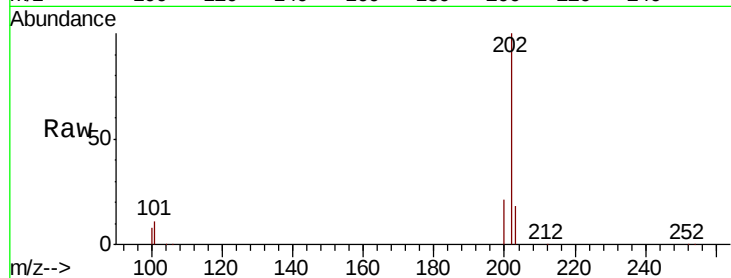
#15  
**Fluoranthene**  
 Concen: 1.422 ng/ul  
 RT: 18.88 min Scan# 3545  
 Delta R.T. -0.00 min  
 Lab File: BN012950.D  
 Acq: 07 Dec 2020 21:43

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B68DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 28237 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.5  | 0.0   | 30.6  |
| 100       | 8.2   | 0.0   | 28.7  |

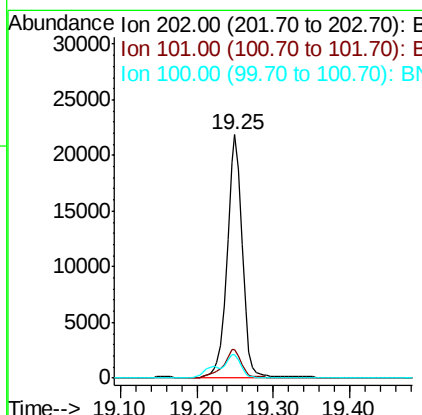
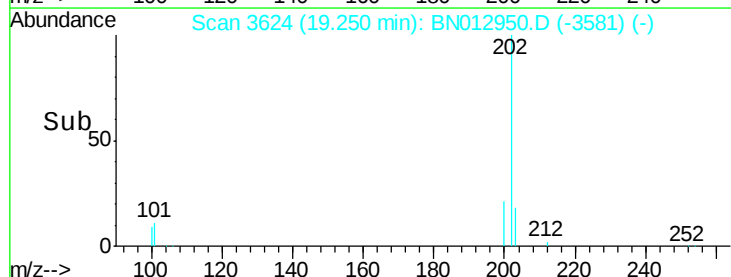
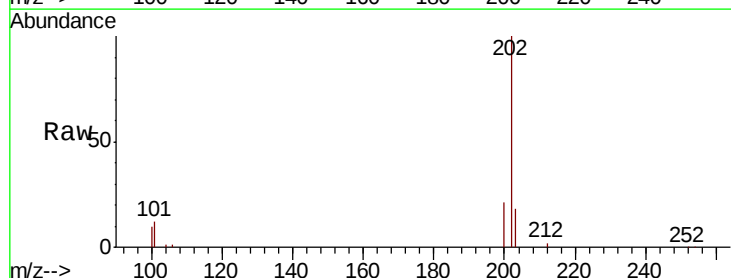
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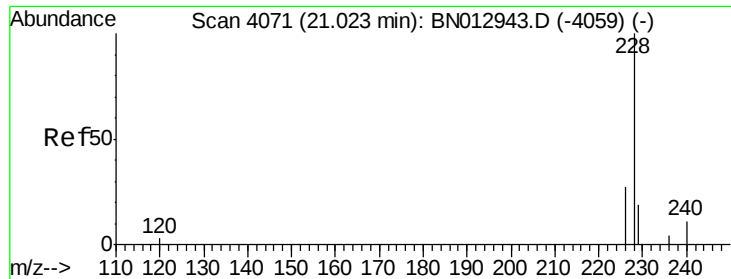
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#17  
**Pyrene**  
 Concen: 1.497 ng/ul  
 RT: 19.25 min Scan# 3624  
 Delta R.T. -0.00 min  
 Lab File: BN012950.D  
 Acq: 07 Dec 2020 21:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 29946 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.8  | 9.1   | 13.7  |
| 100       | 9.7   | 7.5   | 11.3  |





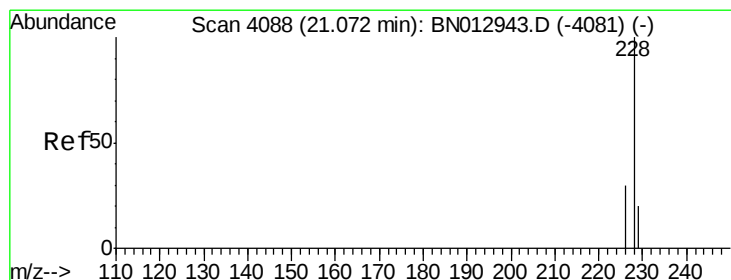
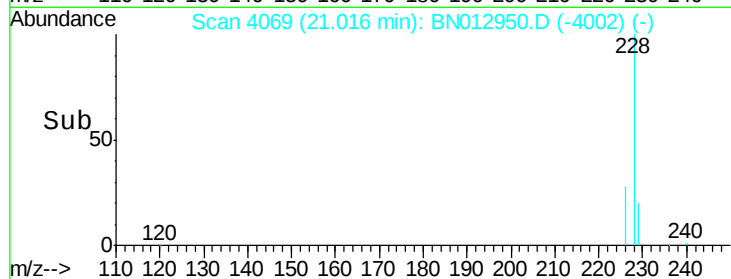
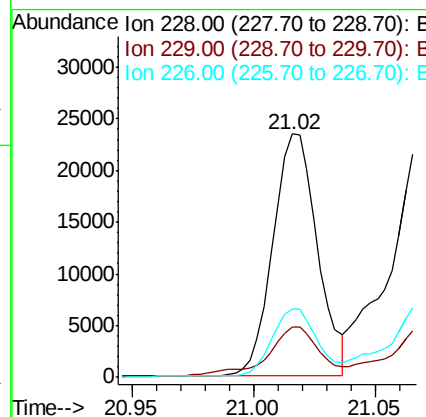
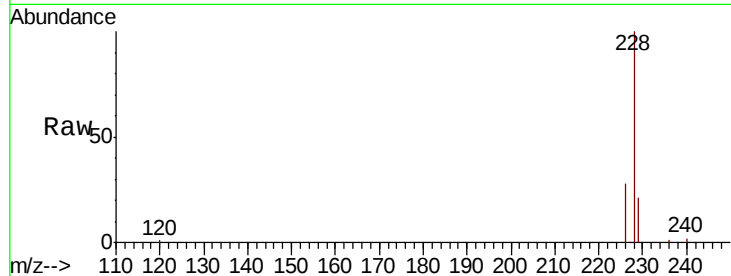
#18  
Benzo(a)anthracene  
Concen: 1.689 ng/ul  
RT: 21.02 min Scan# 4069  
Delta R.T. -0.00 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

Instrument :  
BNA\_N  
ClientSampleId :  
C0B68DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.7  | 16.3  | 24.5  |
| 226     | 28.1  | 23.4  | 35.2  |

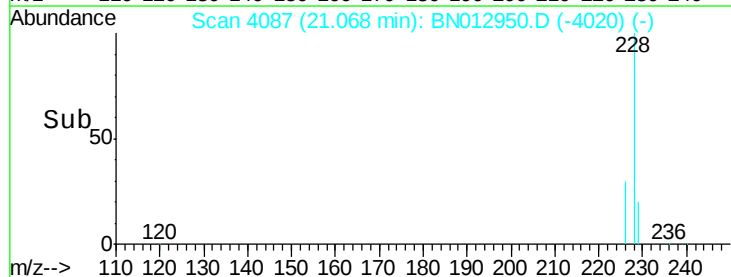
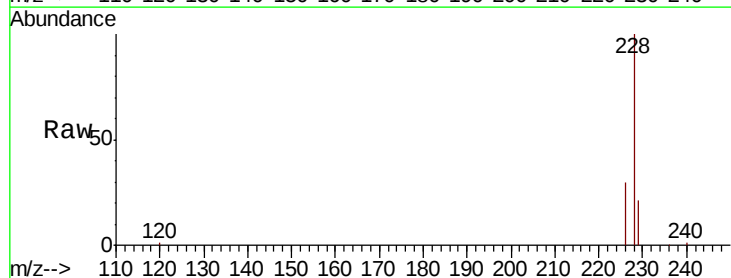
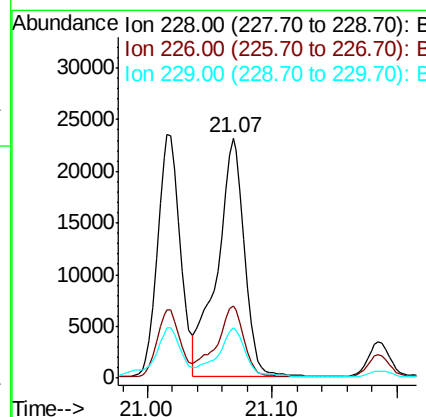
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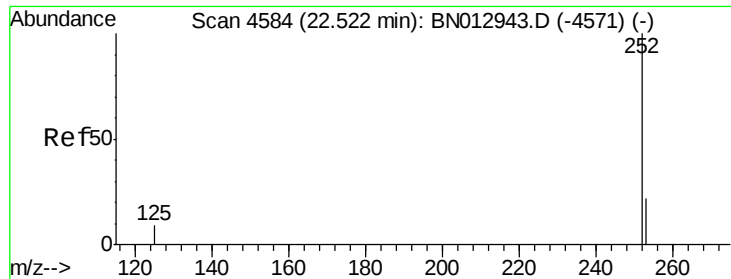
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#19  
Chrysene  
Concen: 1.821 ng/ul  
RT: 21.07 min Scan# 4087  
Delta R.T. -0.00 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 25.0  | 37.6  |
| 229     | 20.7  | 16.4  | 24.6  |





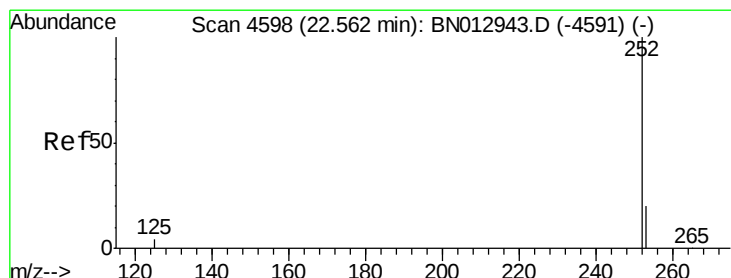
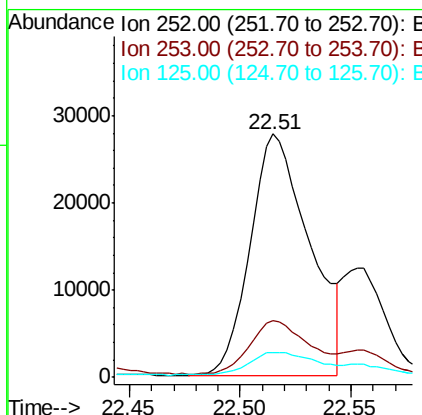
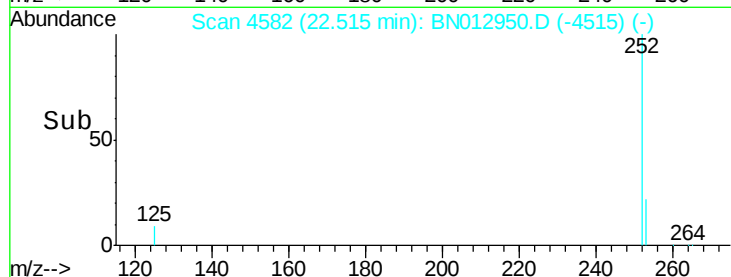
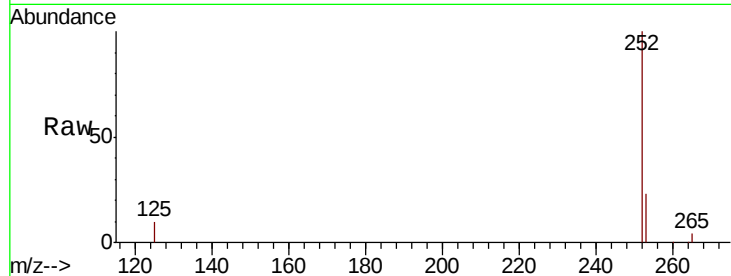
#21  
Benzo(b)fluoranthene  
Concen: 2.748 ng/ul m  
RT: 22.51 min Scan# 4582  
Delta R.T. -0.00 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

Instrument :  
BNA\_N  
ClientSampleId :  
C0B68DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 0.0   | 59.6  |
| 125     | 10.3  | 0.0   | 26.0  |

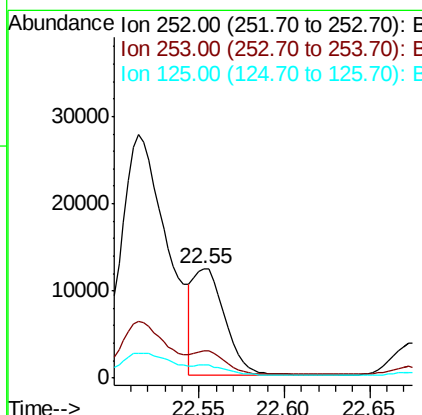
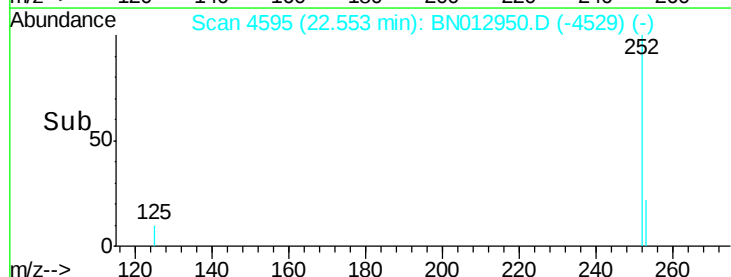
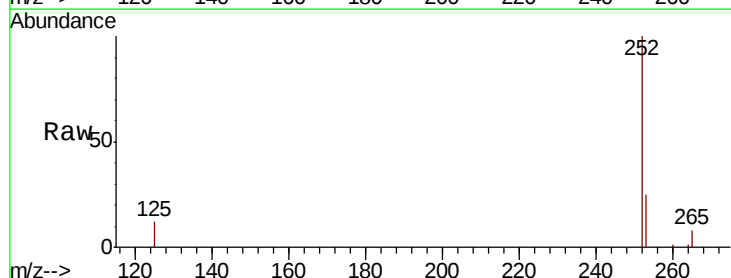
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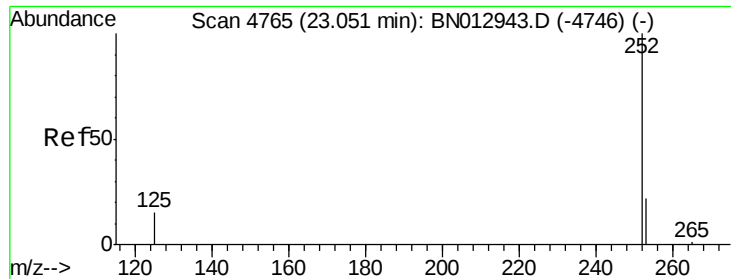
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#22  
Benzo(k)fluoranthene  
Concen: 0.763 ng/ul m  
RT: 22.55 min Scan# 4595  
Delta R.T. -0.01 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 23.4  | 35.2  |
| 125     | 11.7  | 11.1  | 16.7  |





#23

Benzo(a)pyrene

Concen: 1.716 ng/ul

RT: 23.04 min Scan# 4763

Delta R.T. -0.00 min

Lab File: BN012950.D

Acq: 07 Dec 2020 21:43

Instrument :

BNA\_N

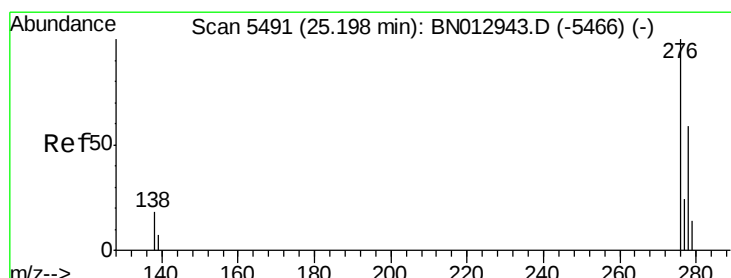
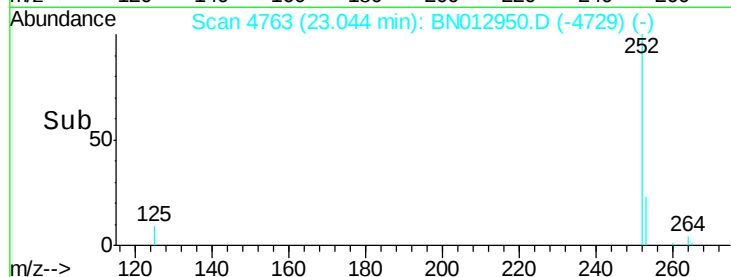
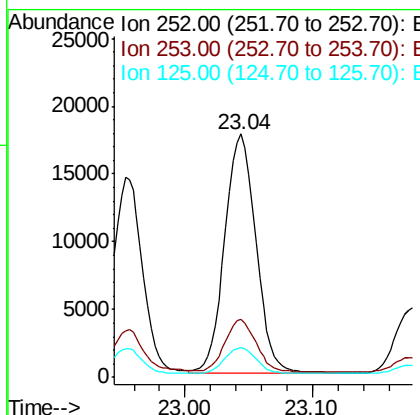
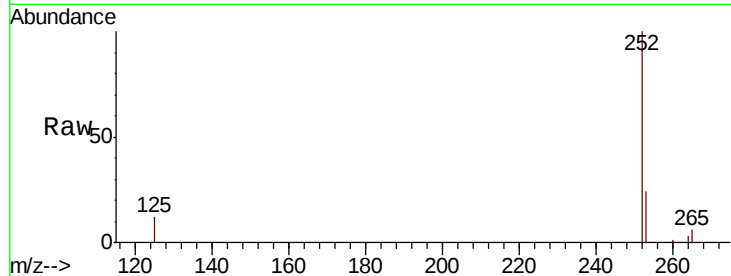
ClientSampleID :

C0B68DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 29930 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.7  | 26.5  | 39.7# |
| 125       | 12.4  | 14.2  | 21.2# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.825 ng/ul

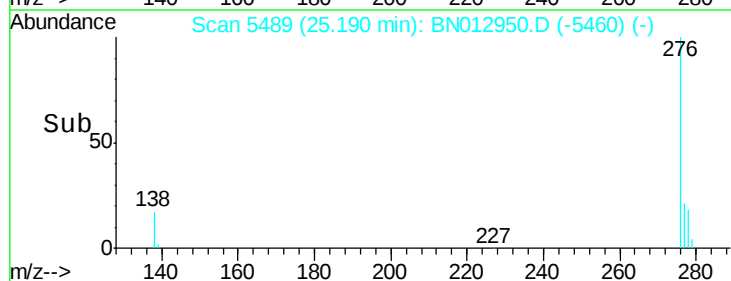
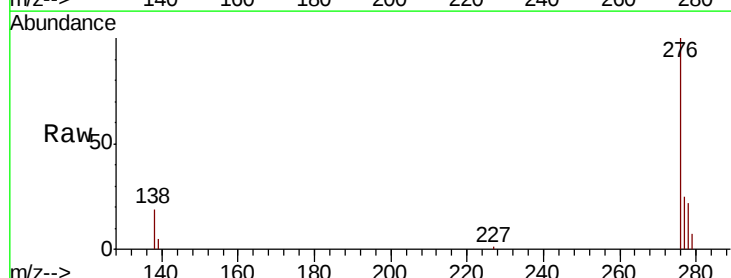
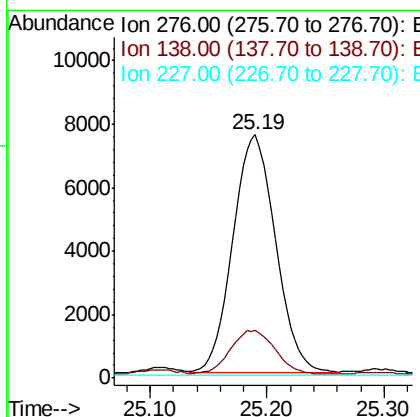
RT: 25.19 min Scan# 5489

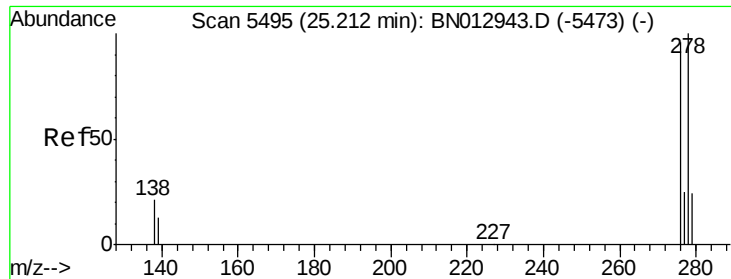
Delta R.T. -0.00 min

Lab File: BN012950.D

Acq: 07 Dec 2020 21:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 18900 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.1  | 16.2  | 24.2  |
| 227       | 0.1   | 0.0   | 0.0#  |





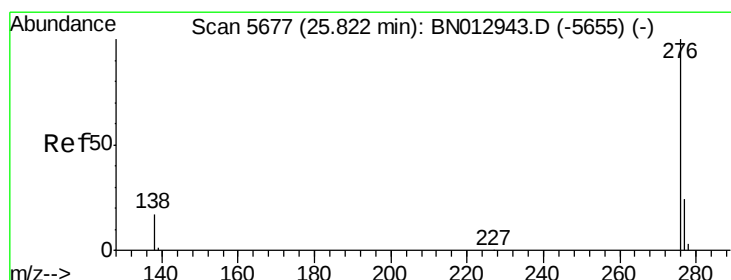
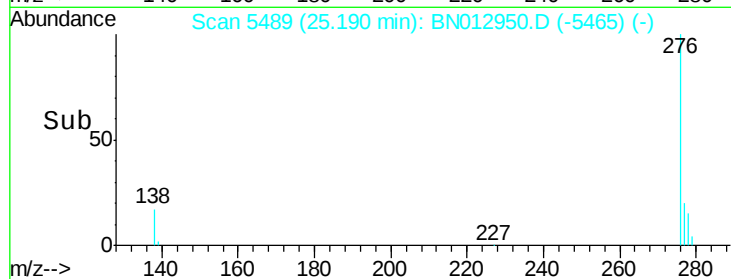
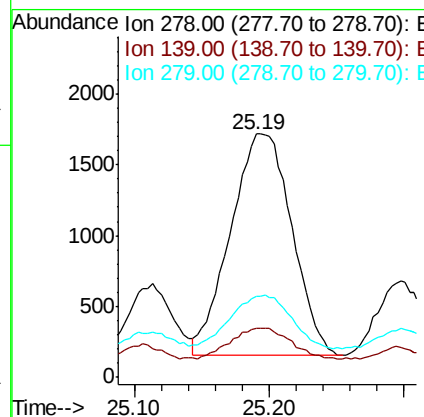
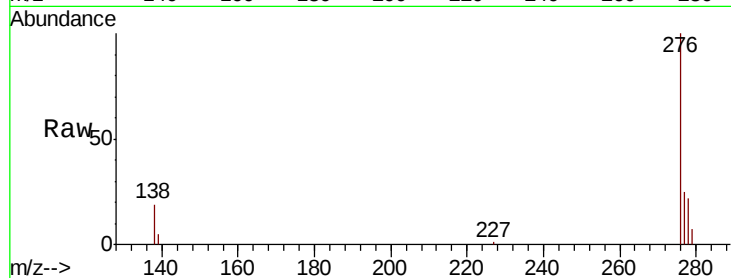
#25  
Dibenzo(a,h)anthracene  
Concen: 0.271 ng/u1  
RT: 25.19 min Scan# 5489  
Delta R.T. -0.02 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

Instrument :  
BNA\_N  
ClientSampleId :  
C0B68DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.3  | 14.5  | 21.7  |
| 279     | 33.1  | 26.3  | 39.5  |

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#26  
Benzo(g,h,i)perylene  
Concen: 0.733 ng/u1  
RT: 25.82 min Scan# 5677  
Delta R.T. -0.00 min  
Lab File: BN012950.D  
Acq: 07 Dec 2020 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.4  | 16.3  | 24.5  |
| 277     | 25.6  | 21.8  | 32.6  |

