

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112119\  
 Data File : BN008703.D  
 Acq On : 22 Nov 2019 07:52  
 Operator : JU  
 Sample : K5854-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AC7

Manual Integrations  
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Quant Time: Nov 22 10:20:54 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 : Fri Nov 22 07:12:34 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.61  | 152  | 4535     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.37 | 136  | 16840    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.23 | 164  | 9328     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.97 | 188  | 19072    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.17 | 240  | 15620    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.34 | 264  | 15751    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152  | 3795     | 0.14   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 9069     | 0.16   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.42 | 128  | 2106     | 0.041  | ng/ul# | 89       |
| 5) 2-Methylnaphthalene      | 12.03 | 142  | 1755     | 0.050  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.95 | 152  | 2703     | 0.052  | ng/ul# | 93       |
| 12) Phenanthrene            | 17.02 | 178  | 16224    | 0.252  | ng/ul  | 99       |
| 13) Anthracene              | 17.11 | 178  | 2590     | 0.043  | ng/ul# | 89       |
| 15) Fluoranthene            | 19.04 | 202  | 46281    | 0.586  | ng/ul  | 93       |
| 17) Pyrene                  | 19.40 | 202  | 39033    | 0.623  | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.16 | 228  | 19919    | 0.317  | ng/ul  | 94       |
| 19) Chrysene                | 21.21 | 228  | 24791    | 0.402  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.70 | 252  | 30565m   | 0.471  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.74 | 252  | 12425m   | 0.193  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.24 | 252  | 18809    | 0.309  | ng/ul# | 86       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.47 | 276  | 14838    | 0.208  | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.48 | 278  | 3592     | 0.062  | ng/ul# | 23       |
| 26) Benzo(g,h,i)perylene    | 26.12 | 276  | 14420    | 0.242  | ng/ul# | 89       |

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

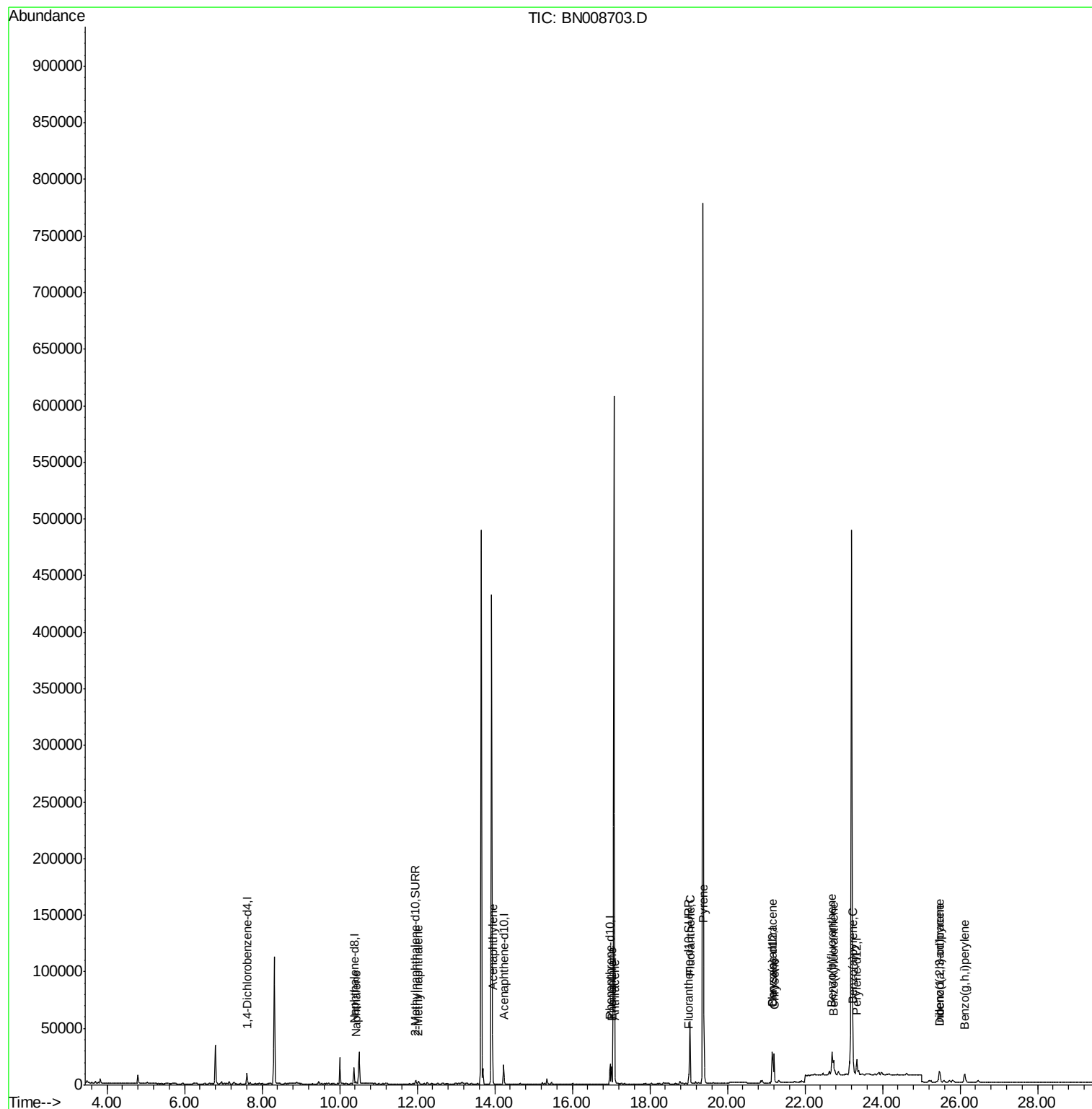
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112119\  
Data File : BN008703.D  
Acq On : 22 Nov 2019 07:52  
Operator : JU  
Sample : K5854-09  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

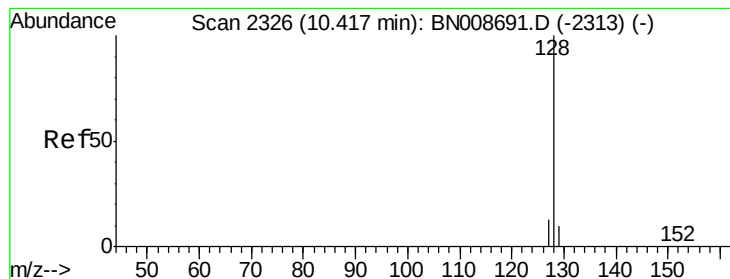
Instrument :  
BNA\_N  
ClientSampleId :  
C0AC7

Quant Time: Nov 22 10:20:54 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 : Fri Nov 22 07:12:34 2019  
Response via : Initial Calibration

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#3

Naphthalene

Concen: 0.041 ng/ul

RT: 10.42 min Scan# 2326

Delta R.T. -0.00 min

Lab File: BN008703.D

Acq: 22 Nov 2019 07:52

Instrument :

BNA\_N

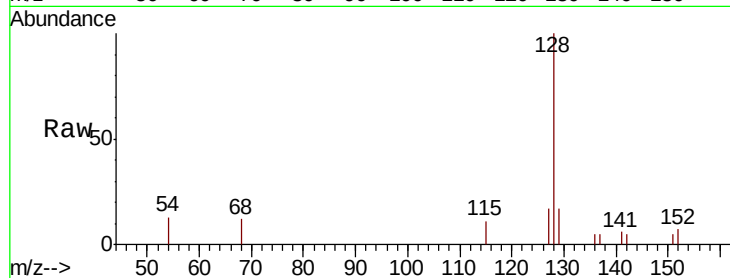
ClientSampleId :

C0AC7

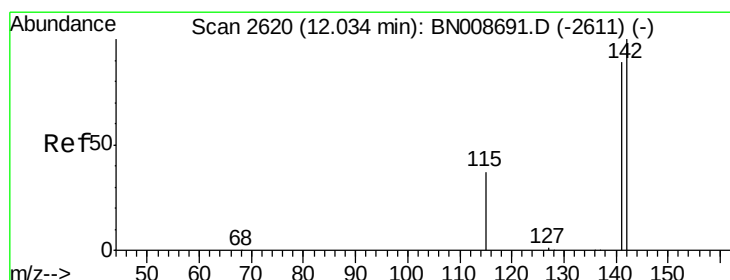
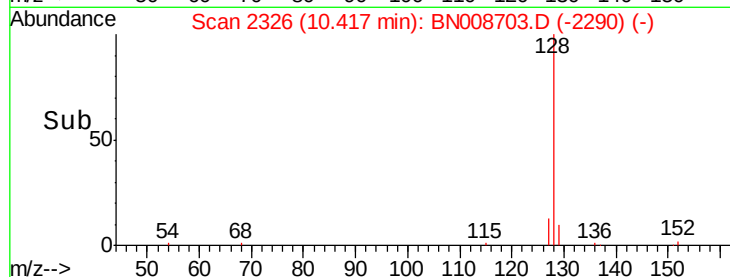
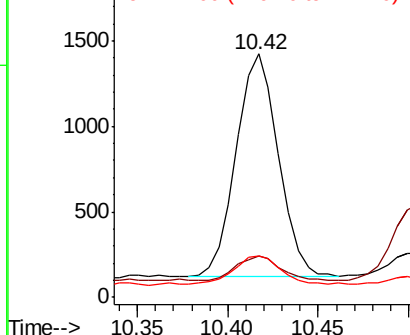
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 2106  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 17.0  | 9.7   | 14.5# |
| 127      | 17.1  | 10.8  | 16.2# |

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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: 0.050 ng/ul

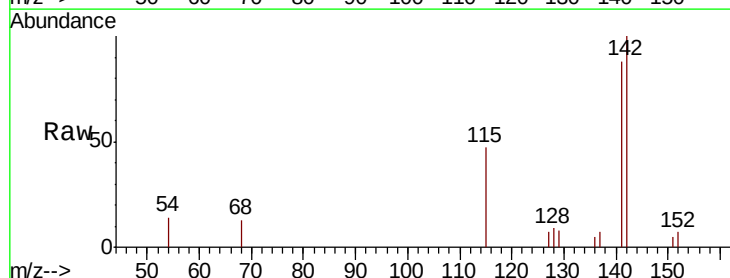
RT: 12.03 min Scan# 2620

Delta R.T. -0.00 min

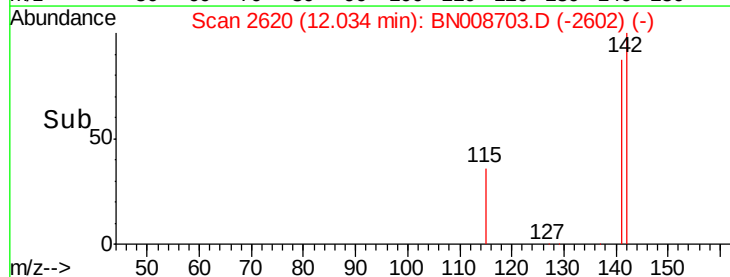
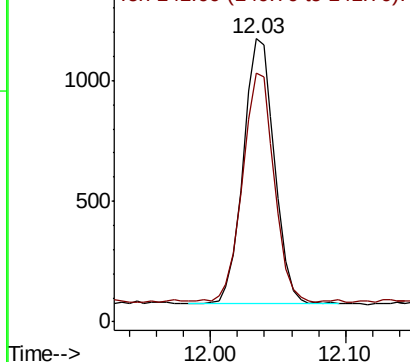
Lab File: BN008703.D

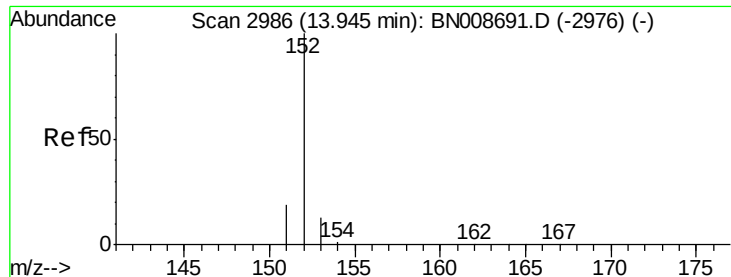
Acq: 22 Nov 2019 07:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 1755  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 87.1  | 70.5  | 105.7 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.052 ng/ul

RT: 13.95 min Scan# 2987

Delta R.T. 0.00 min

Lab File: BN008703.D

Acq: 22 Nov 2019 07:52

Instrument :

BNA\_N

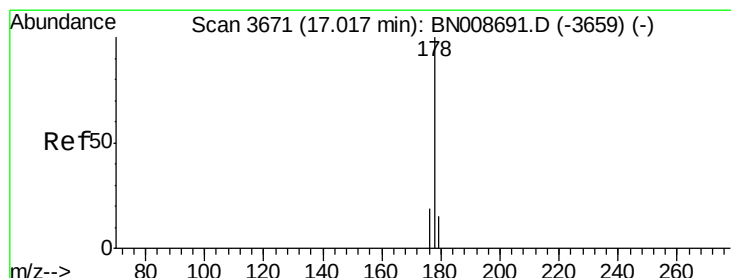
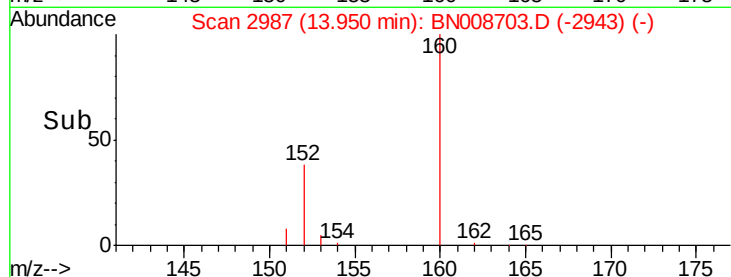
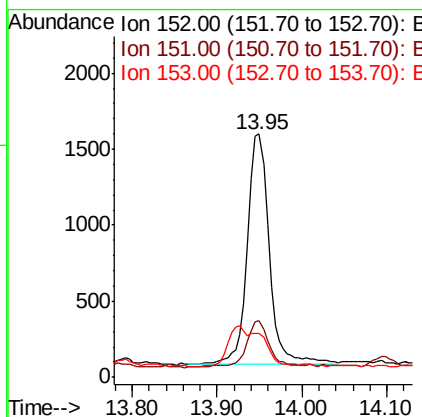
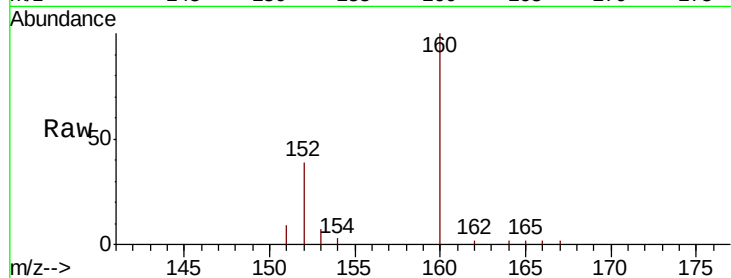
ClientSampleId :

C0AC7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2703  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 23.2  | 16.6  | 24.8  |
| 153       | 18.1  | 11.1  | 16.7# |

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#12

Phenanthrene

Concen: 0.252 ng/ul

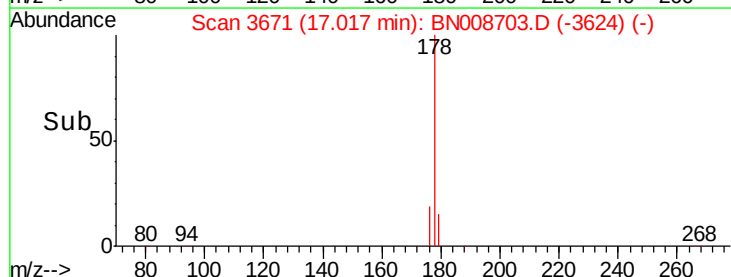
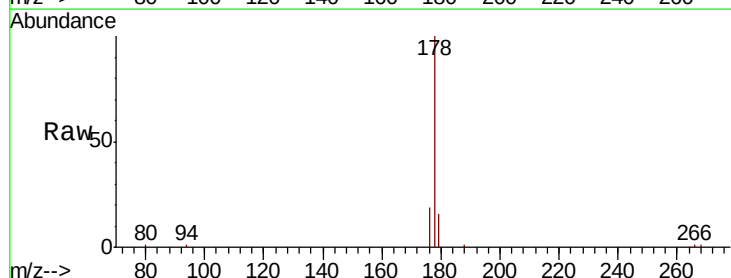
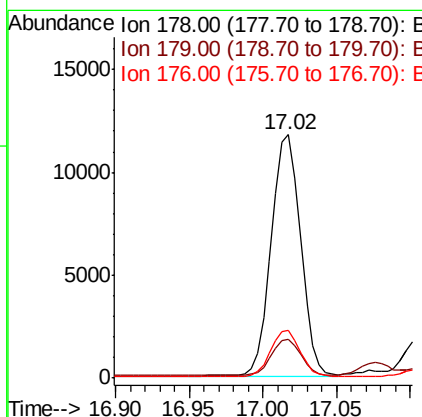
RT: 17.02 min Scan# 3671

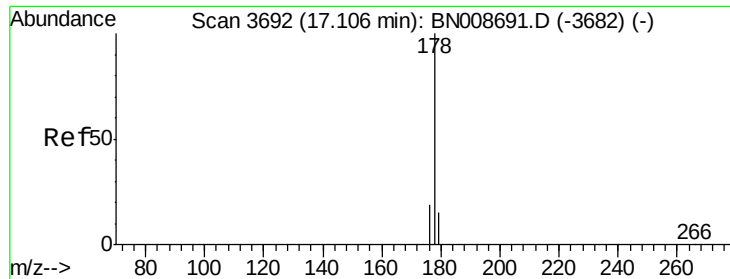
Delta R.T. -0.00 min

Lab File: BN008703.D

Acq: 22 Nov 2019 07:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 16224 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.1  | 12.8  | 19.2  |
| 176       | 19.5  | 16.0  | 24.0  |





#13

Anthracene

Concen: 0.043 ng/ul

RT: 17.11 min Scan# 3692

Delta R.T. -0.00 min

Lab File: BN008703.D

Acq: 22 Nov 2019 07:52

Instrument :

BNA\_N

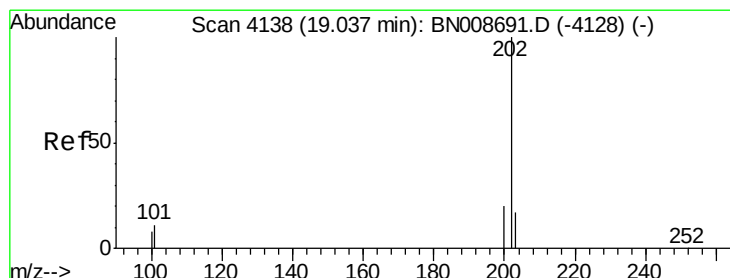
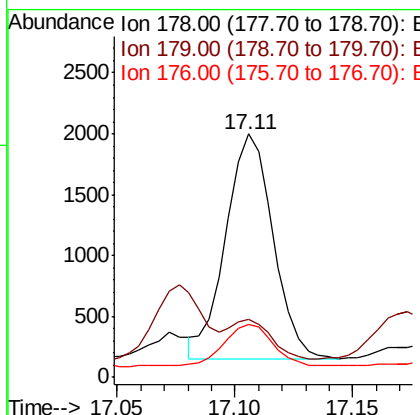
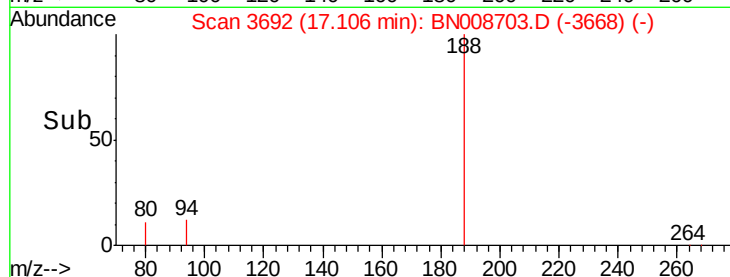
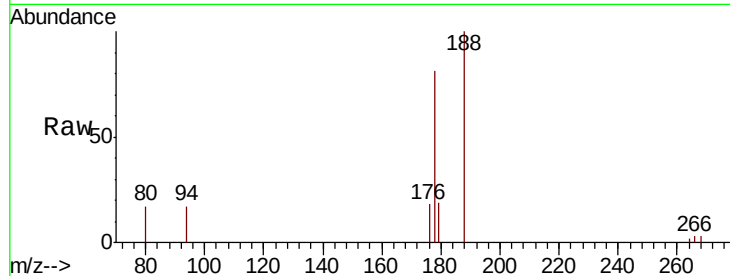
ClientSampled :

C0AC7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 2590  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 23.9  | 13.0  | 19.4# |
| 176       | 21.6  | 15.3  | 22.9  |

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#15

Fluoranthene

Concen: 0.586 ng/ul

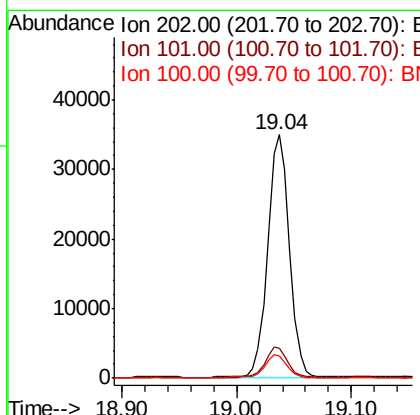
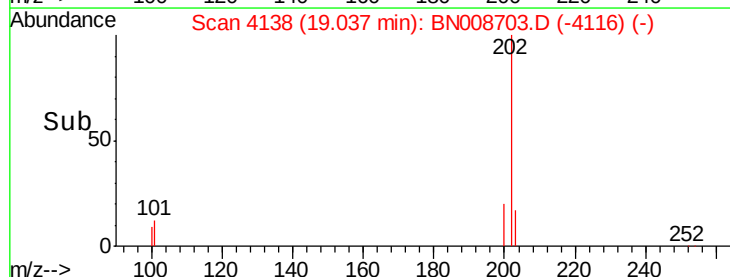
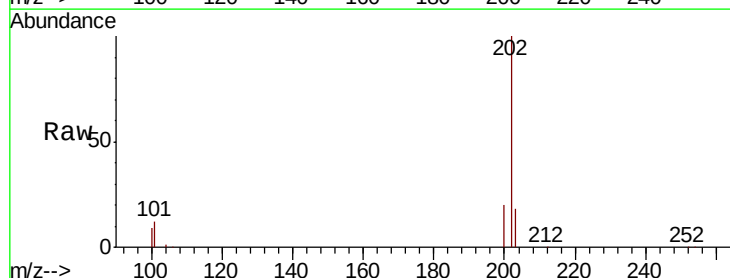
RT: 19.04 min Scan# 4138

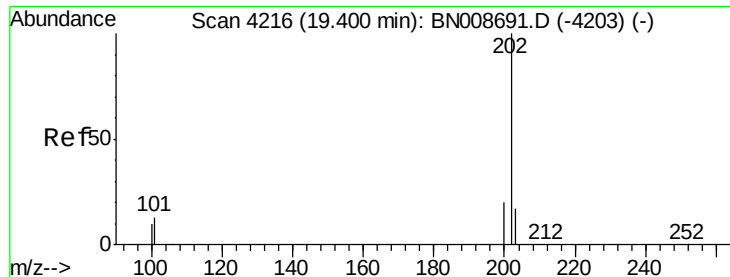
Delta R.T. -0.00 min

Lab File: BN008703.D

Acq: 22 Nov 2019 07:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 46281 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.4  | 0.0   | 29.6  |
| 100       | 9.2   | 0.0   | 27.0  |





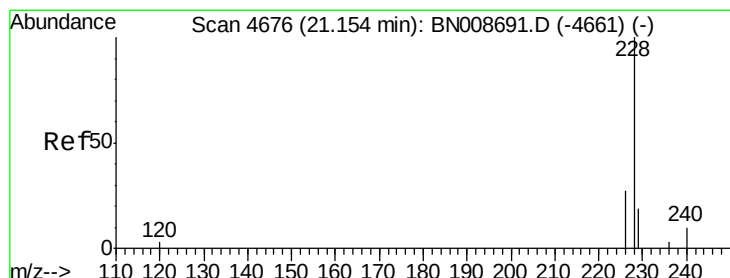
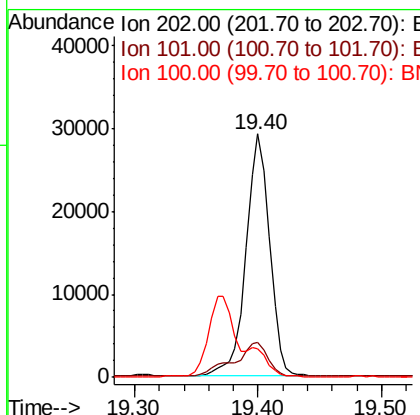
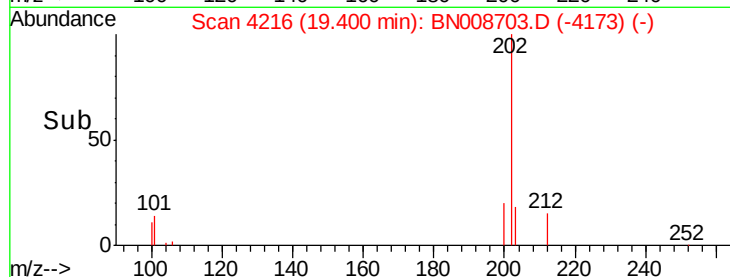
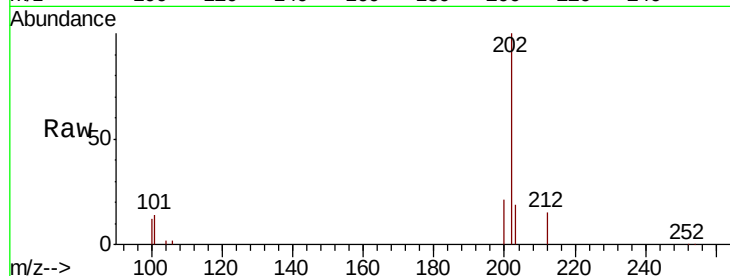
#17  
 Pyrene  
 Concen: 0.623 ng/ul  
 RT: 19.40 min Scan# 4216  
 Delta R.T. -0.00 min  
 Lab File: BN008703.D  
 Acq: 22 Nov 2019 07:52

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AC7

|             |       |       |
|-------------|-------|-------|
| Tot Ion:202 | Resp: | 39033 |
| Ion Ratio   | Lower | Upper |
| 202 100     |       |       |
| 101 14.3    | 10.2  | 15.2  |
| 100 11.6    | 8.2   | 12.2  |

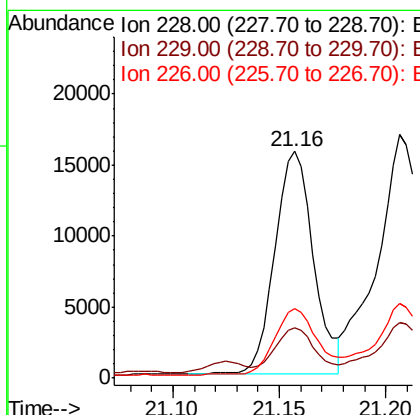
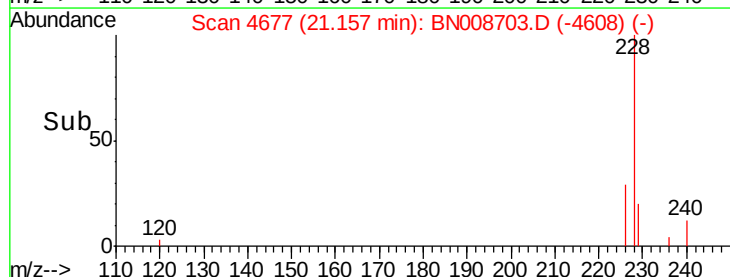
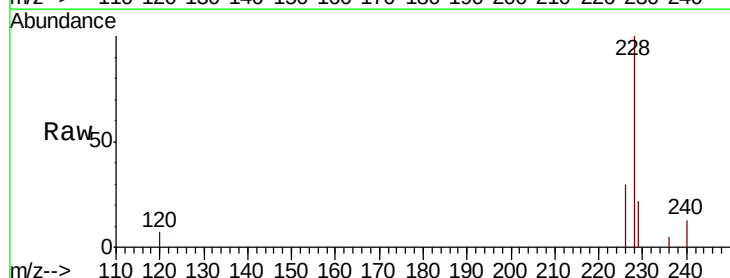
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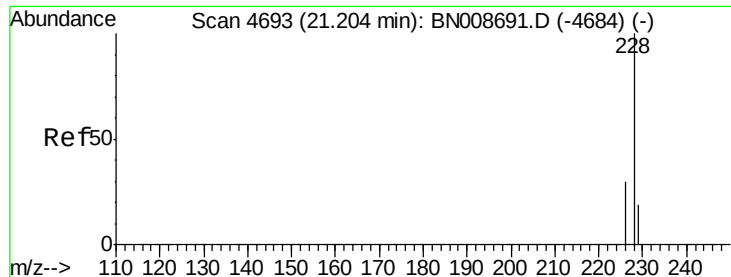
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#18  
 Benzo(a)anthracene  
 Concen: 0.317 ng/ul  
 RT: 21.16 min Scan# 4677  
 Delta R.T. 0.00 min  
 Lab File: BN008703.D  
 Acq: 22 Nov 2019 07:52

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:228 | Resp: | 19919 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 229 22.0    | 15.8  | 23.6  |
| 226 30.4    | 21.6  | 32.4  |





#19

Chrysene

Concen: 0.402 ng/ul

RT: 21.21 min Scan# 4694

Delta R.T. 0.00 min

Lab File: BN008703.D

Acq: 22 Nov 2019 07:52

Instrument :

BNA\_N

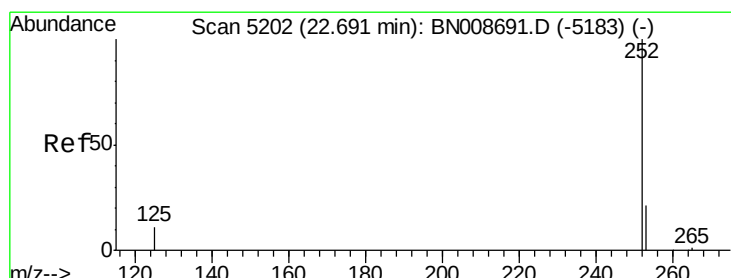
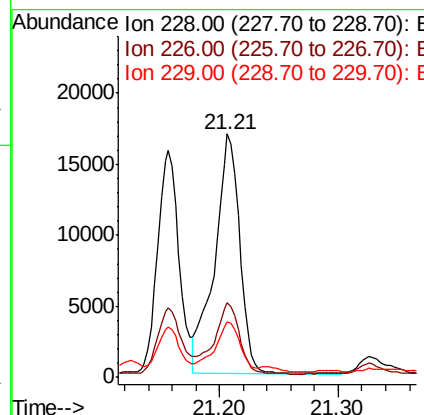
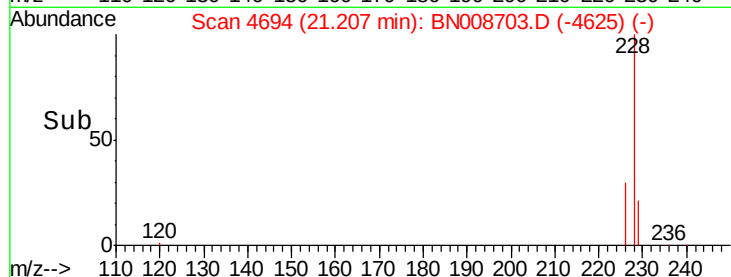
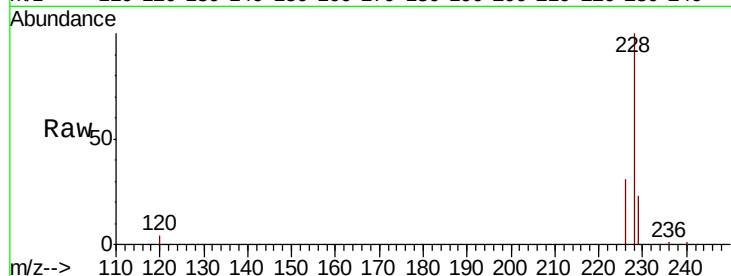
ClientSampleId :

C0AC7

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 24791 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.9  | 24.5  | 36.7  |
| 229      | 23.0  | 15.5  | 23.3  |

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#21

Benzo(b)fluoranthene

Concen: 0.471 ng/ul m

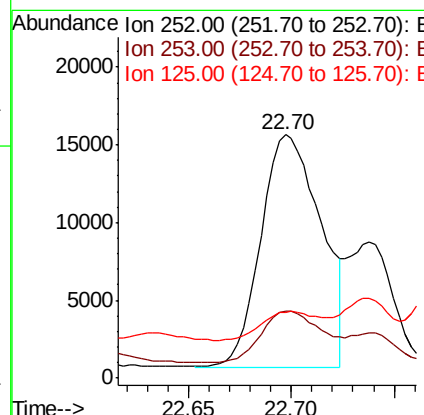
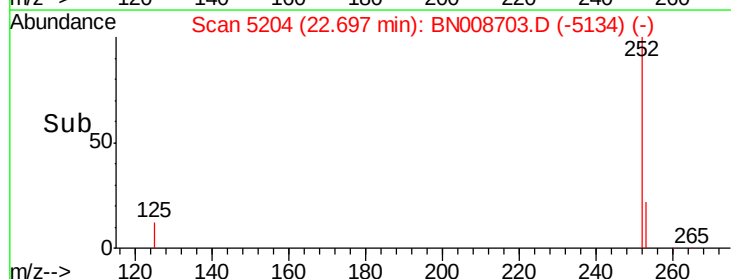
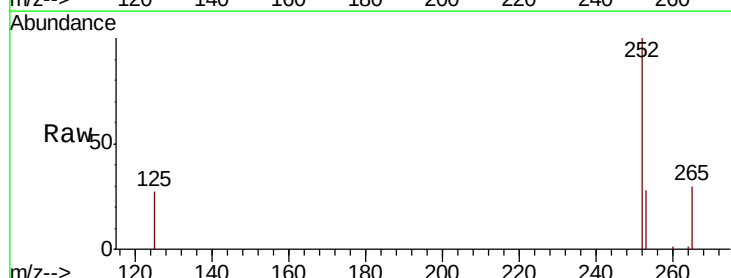
RT: 22.70 min Scan# 5204

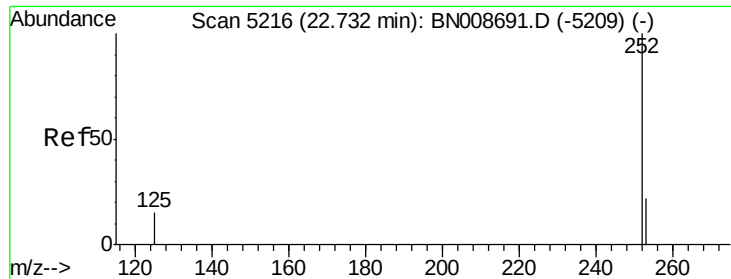
Delta R.T. 0.01 min

Lab File: BN008703.D

Acq: 22 Nov 2019 07:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 30565 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 27.7  | 0.0   | 50.2  |
| 125      | 27.2  | 0.0   | 30.0  |





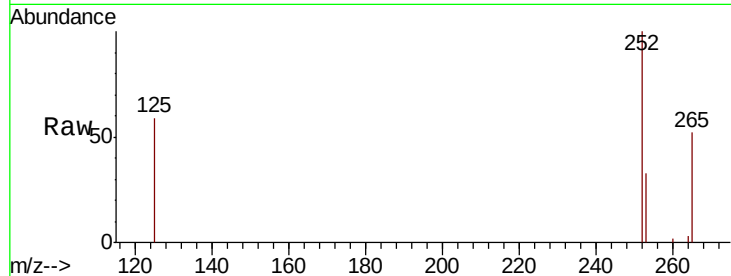
#22  
Benzo(k)fluoranthene  
Concen: 0.193 ng/ul m  
RT: 22.74 min Scan# 5218  
Delta R.T. 0.01 min  
Lab File: BN008703.D  
Acq: 22 Nov 2019 07:52

Instrument :  
BNA\_N  
ClientSampleId :  
C0AC7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 33.4  | 20.5  | 30.7# |
| 125     | 58.5  | 15.0  | 22.4# |

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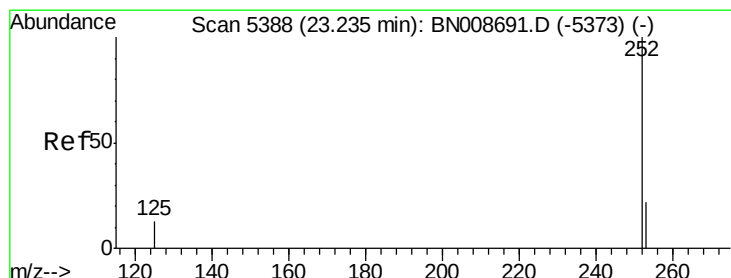
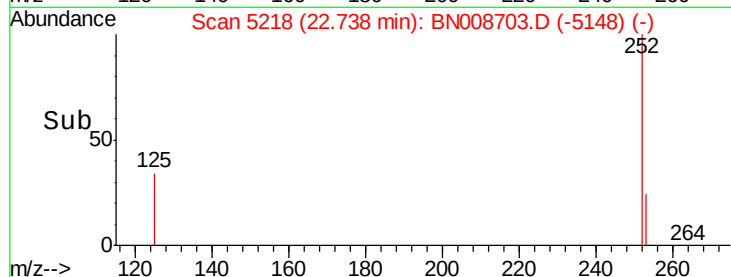
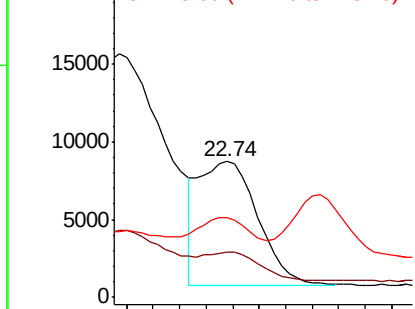


Abundance

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: 0.309 ng/ul  
RT: 23.24 min Scan# 5391  
Delta R.T. 0.01 min  
Lab File: BN008703.D  
Acq: 22 Nov 2019 07:52

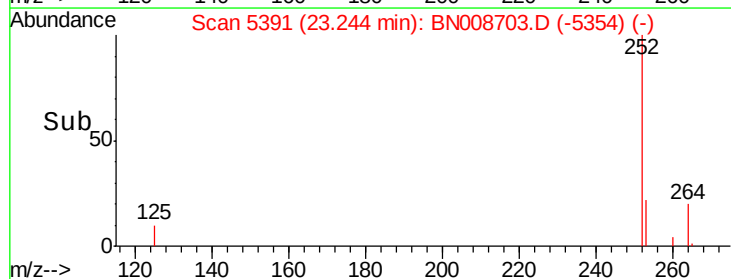
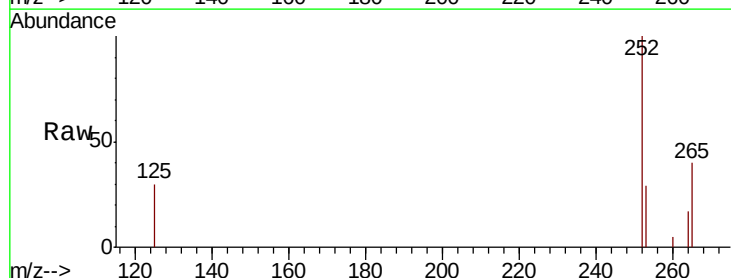
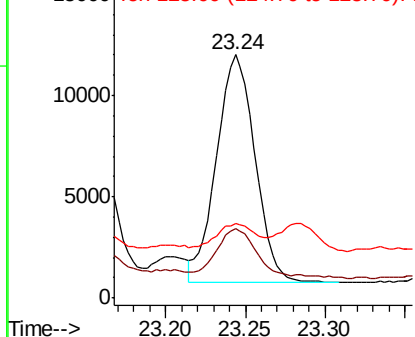
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.5  | 21.4  | 32.2  |
| 125     | 30.5  | 13.8  | 20.8# |

Abundance

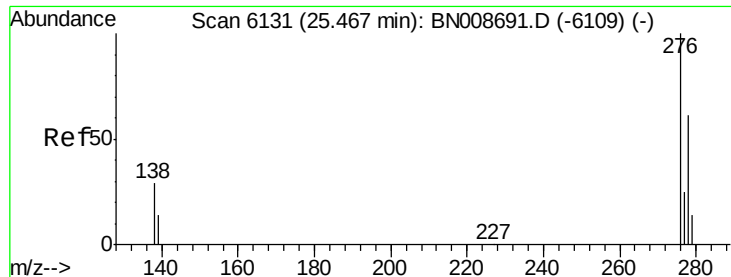
Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







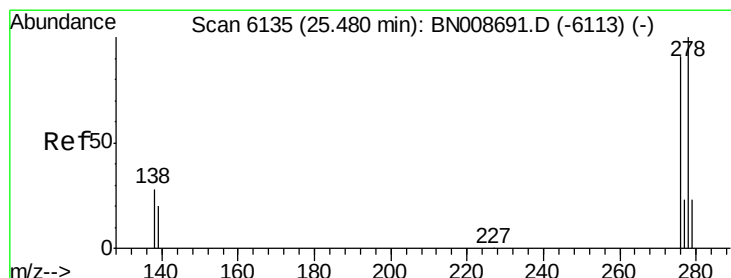
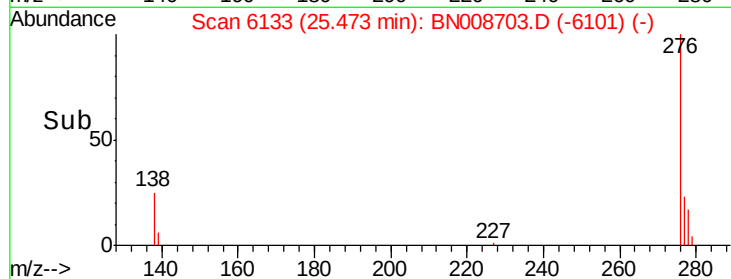
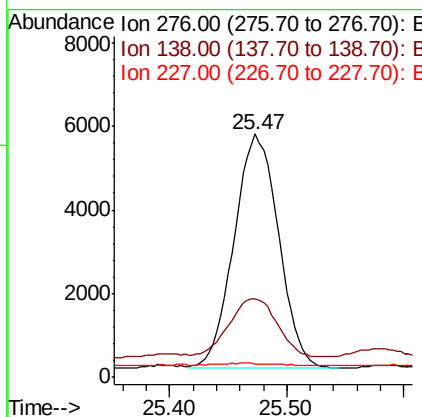
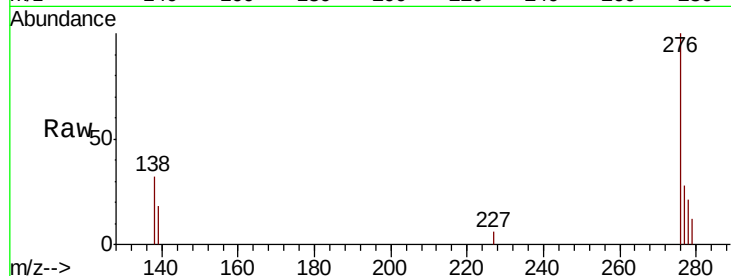
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.208 ng/ul  
 RT: 25.47 min Scan# 6133  
 Delta R.T. 0.01 min  
 Lab File: BN008703.D  
 Acq: 22 Nov 2019 07:52

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AC7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.7  | 21.7  | 32.5  |
| 227     | 0.3   | 0.2   | 0.2#  |

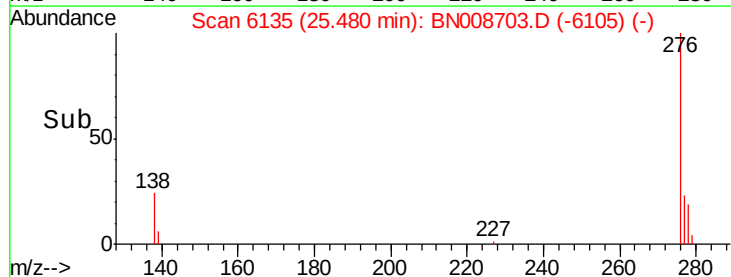
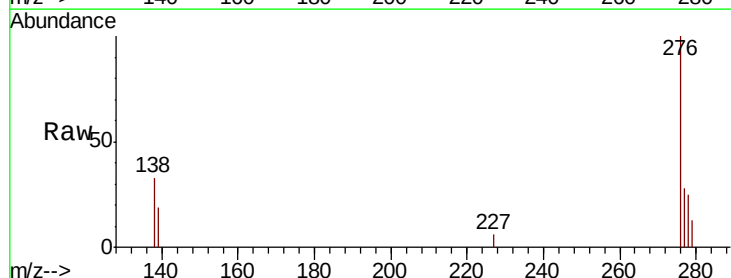
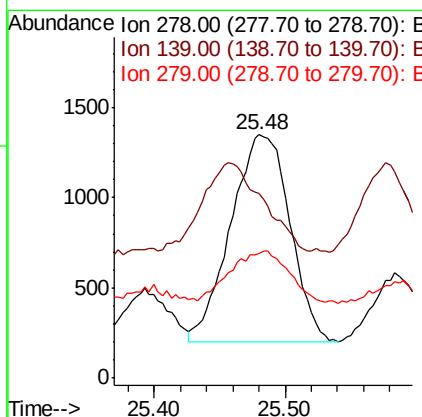
Manual Integrations  
 APPROVED

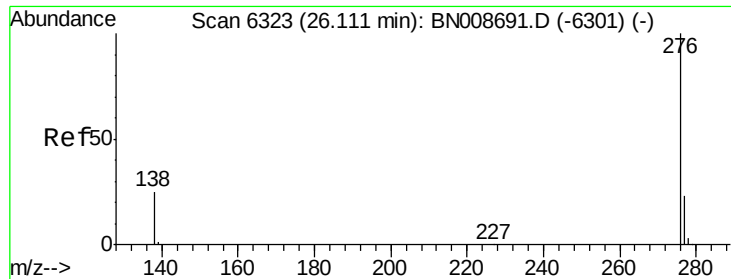
mohammad  
 11/22/2019 1:24:22 PM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.062 ng/ul  
 RT: 25.48 min Scan# 6135  
 Delta R.T. -0.00 min  
 Lab File: BN008703.D  
 Acq: 22 Nov 2019 07:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 75.9  | 18.7  | 28.1# |
| 279     | 51.2  | 20.8  | 31.2# |





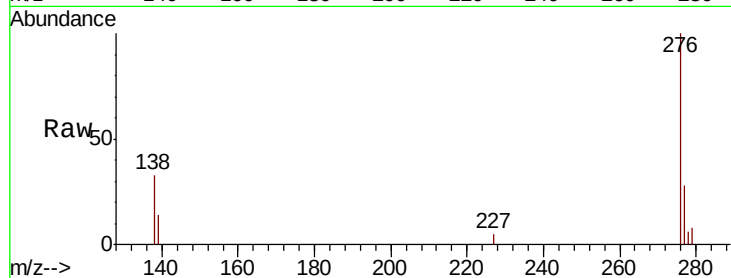
#26  
 Benzo(a,h,i)perylene  
 Concen: 0.242 ng/ul  
 RT: 26.12 min Scan# 6326  
 Delta R.T. 0.01 min  
 Lab File: BN008703.D  
 Acq: 22 Nov 2019 07:52

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AC7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.1  | 20.0  | 30.0# |
| 277     | 27.7  | 20.0  | 30.0  |

Manual Integrations  
 APPROVED

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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

