

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112019\  
 Data File : BN008659.D  
 Acq On : 20 Nov 2019 14:19  
 Operator : JU  
 Sample : K5784-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLNBI

Manual Integrations  
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Quant Time: Nov 20 15:12:11 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  | 4082     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.38 | 136  | 15254    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.24 | 164  | 8457     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.98 | 188  | 17278    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.18 | 240  | 14005    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.35 | 264  | 14251    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.97 | 152  | 4172     | 0.17   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.01 | 212  | 9514     | 0.18   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.43 | 128  | 2361     | 0.051  | ng/ul# | 90       |
| 5) 2-Methylnaphthalene      | 12.04 | 142  | 1491     | 0.046  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.96 | 152  | 2018     | 0.043  | ng/ul# | 86       |
| 8) Acenaphthene             | 14.30 | 153  | 2871     | 0.083  | ng/ul  | 99       |
| 9) Fluorene                 | 15.29 | 166  | 2329     | 0.057  | ng/ul# | 93       |
| 12) Phenanthrene            | 17.03 | 178  | 48633    | 0.835  | ng/ul  | 98       |
| 13) Anthracene              | 17.11 | 178  | 9413     | 0.171  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.05 | 202  | 70195    | 0.981  | ng/ul  | 96       |
| 17) Pyrene                  | 19.41 | 202  | 78468    | 1.397  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.16 | 228  | 28710    | 0.510  | ng/ul# | 91       |
| 19) Chrysene                | 21.21 | 228  | 32447    | 0.587  | ng/ul# | 95       |
| 21) Benzo(b)fluoranthene    | 22.71 | 252  | 31847m   | 0.542  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.74 | 252  | 12183m   | 0.209  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.25 | 252  | 27382    | 0.496  | ng/ul# | 82       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.49 | 276  | 18015    | 0.279  | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.49 | 278  | 4230     | 0.081  | ng/ul# | 9        |
| 26) Benzo(a,h,i)perylene    | 26.14 | 276  | 19718    | 0.365  | ng/ul# | 89       |

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

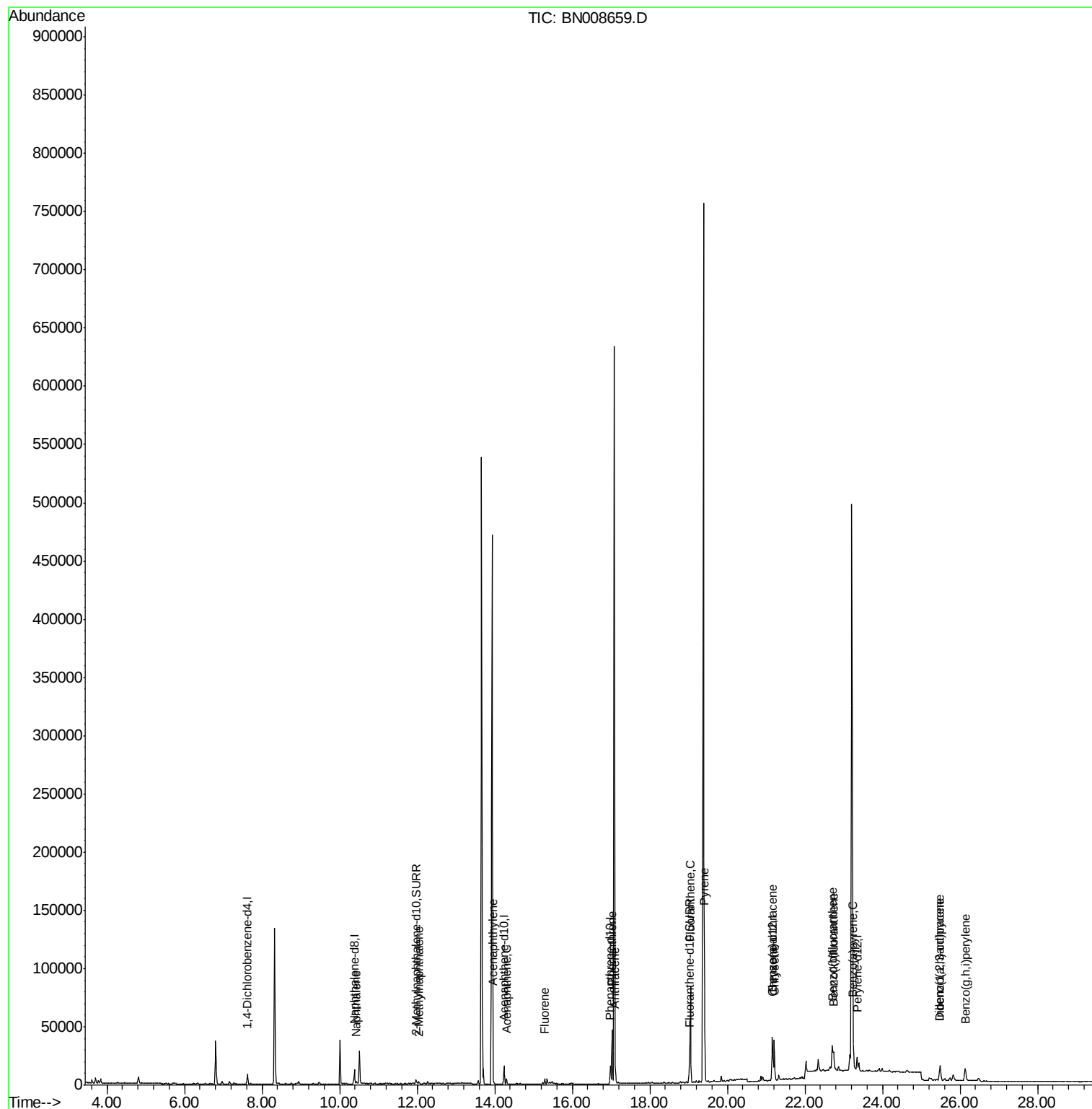
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112019\  
Data File : BN008659.D  
Acq On : 20 Nov 2019 14:19  
Operator : JU  
Sample : K5784-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

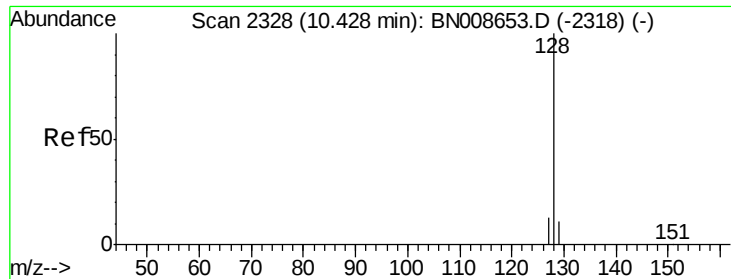
Instrument :  
BNA\_N  
ClientSampleId :  
JLNB1

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Quant Time: Nov 20 15:12:11 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





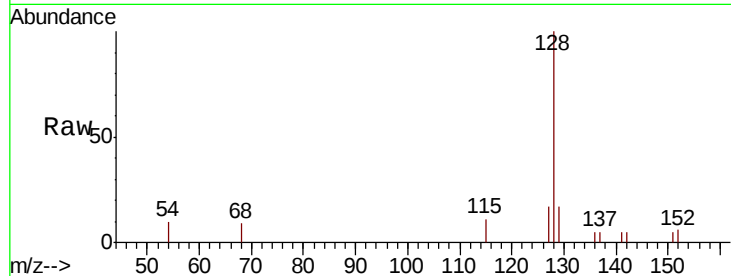
#3  
Naphthalene  
Concen: 0.051 ng/ul  
RT: 10.43 min Scan# 2328  
Delta R.T. -0.01 min  
Lab File: BN008659.D  
Acq: 20 Nov 2019 14:19

Instrument :  
BNA\_N  
ClientSampleId :  
JLNB1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 16.7  | 9.7   | 14.5# |
| 127     | 16.6  | 10.8  | 16.2# |

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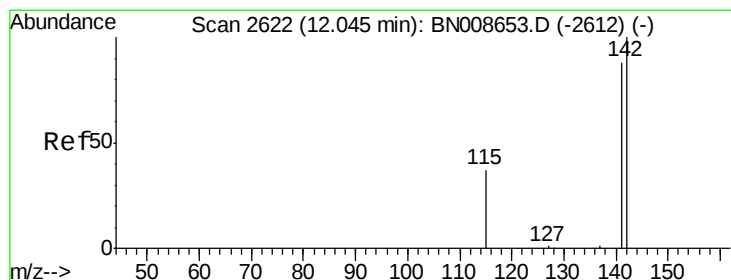
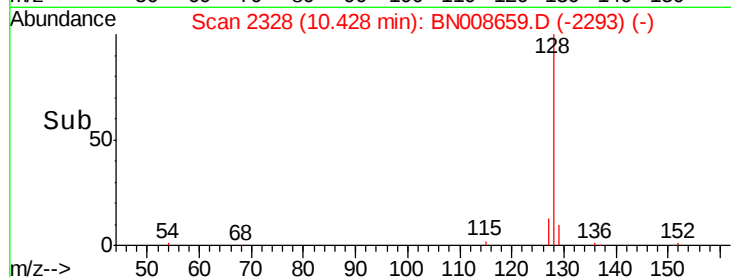
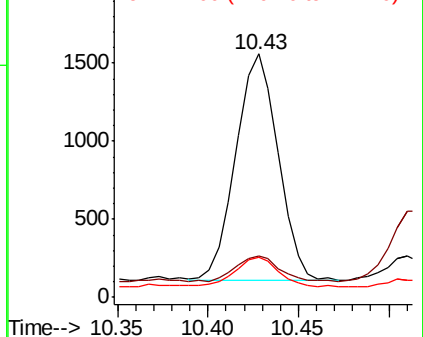


Abundance

Ion 128.00 (127.70 to 128.70): E

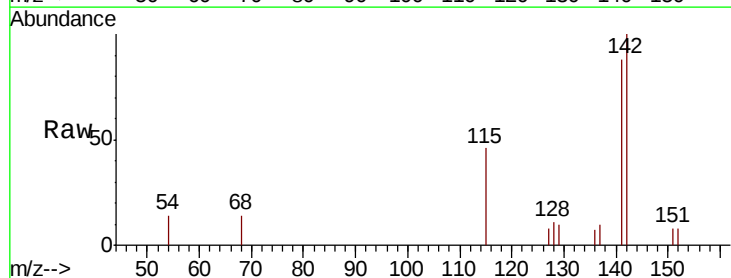
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5  
2-Methylnaphthalene  
Concen: 0.046 ng/ul  
RT: 12.04 min Scan# 2622  
Delta R.T. -0.01 min  
Lab File: BN008659.D  
Acq: 20 Nov 2019 14:19

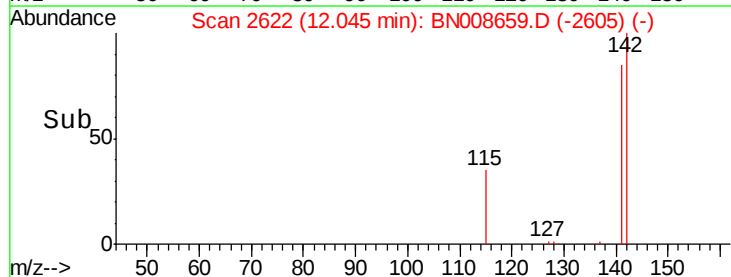
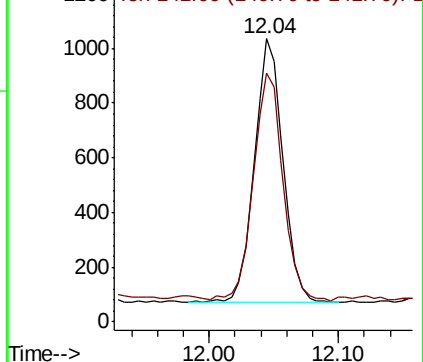
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.8  | 70.5  | 105.7 |

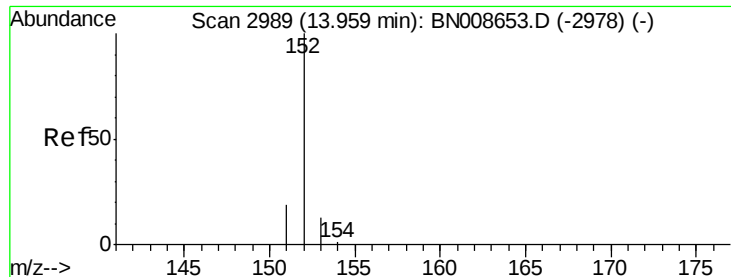


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.043 ng/ul

RT: 13.96 min Scan# 2989

Delta R.T. 0.00 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

Instrument :

BNA\_N

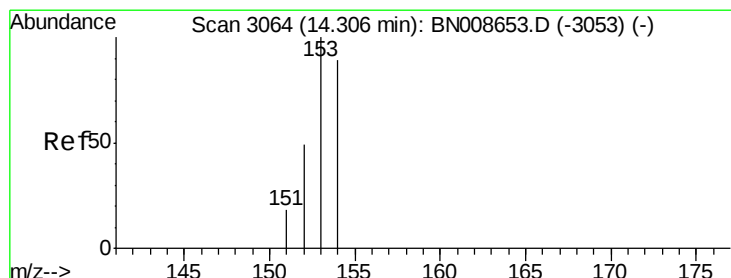
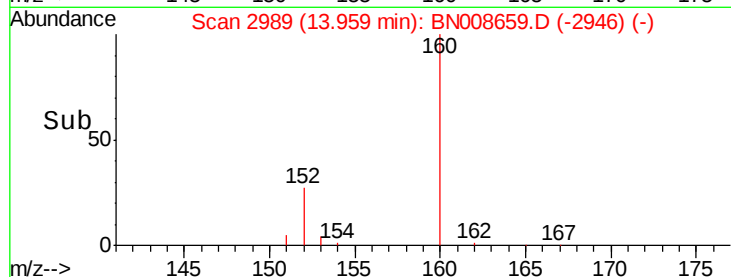
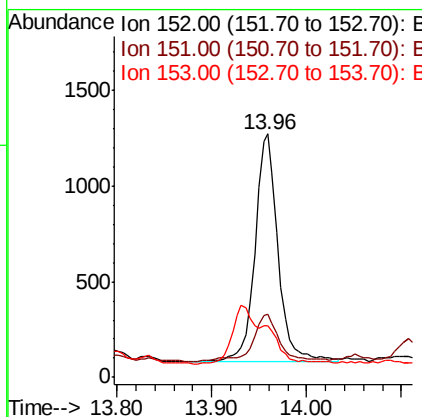
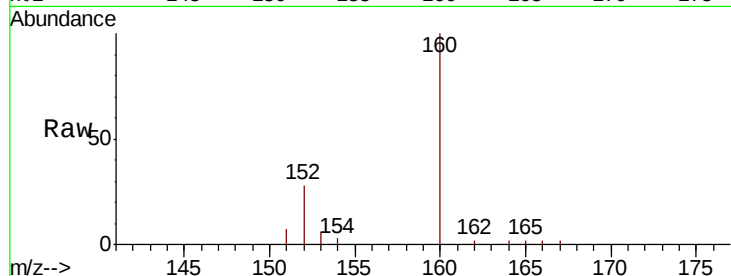
ClientSampleId :

JLNB1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2018  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 25.8  | 16.6  | 24.8# |
| 153       | 21.1  | 11.1  | 16.7# |

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#8

Acenaphthene

Concen: 0.083 ng/ul

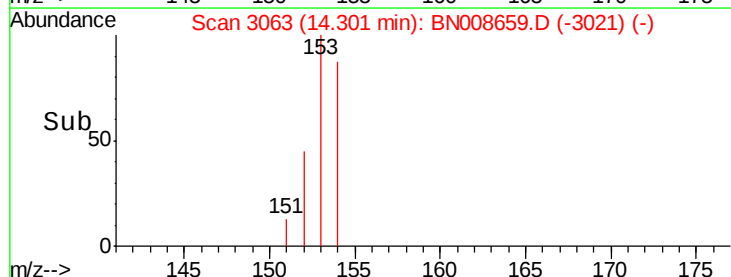
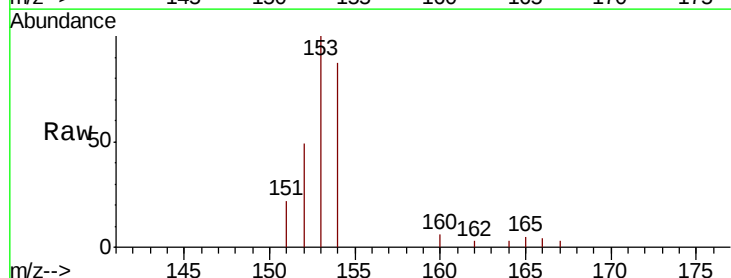
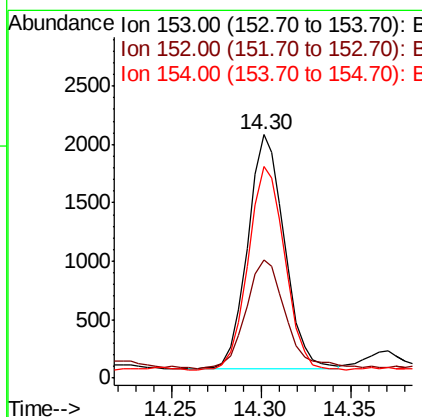
RT: 14.30 min Scan# 3063

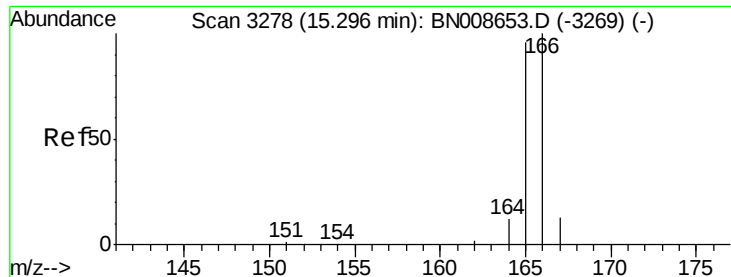
Delta R.T. -0.00 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2871  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.6  | 39.6  | 59.4  |
| 154       | 87.0  | 70.6  | 106.0 |





#9

Fluorene

Concen: 0.057 ng/ul

RT: 15.29 min Scan# 3277

Delta R.T. -0.00 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

Instrument :

BNA\_N

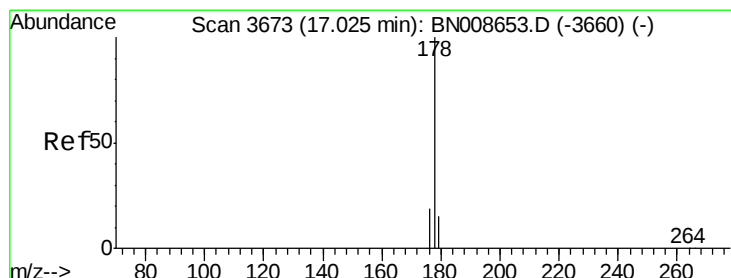
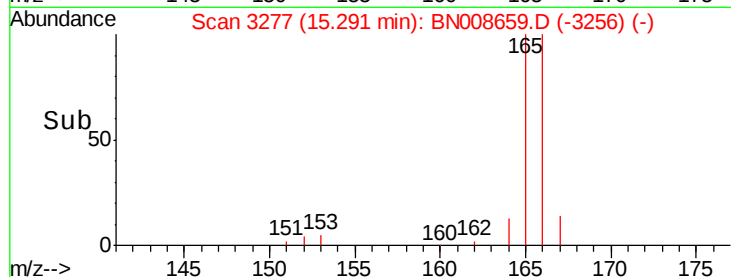
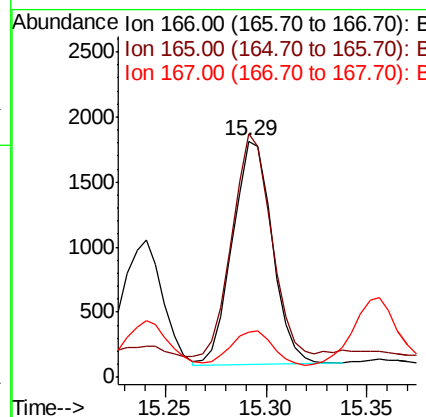
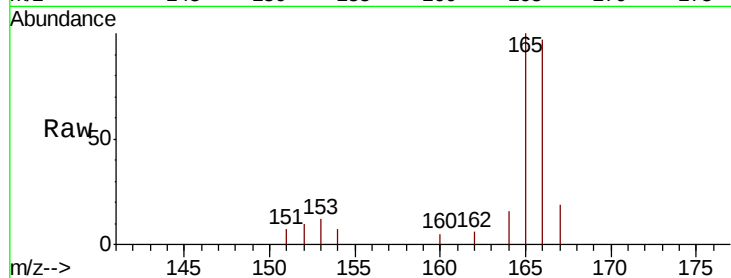
ClientSampleId :

JLNB1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 2329  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 103.1 | 77.4  | 116.0 |
| 167       | 19.1  | 11.4  | 17.0# |

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#12

Phenanthrene

Concen: 0.835 ng/ul

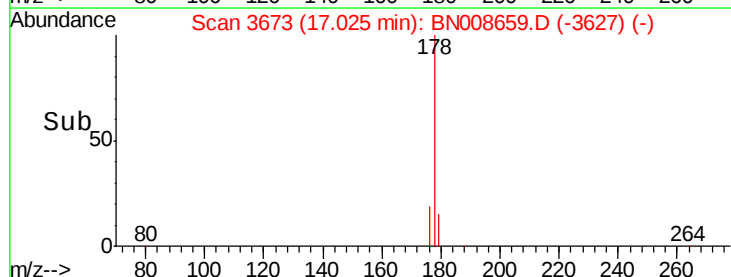
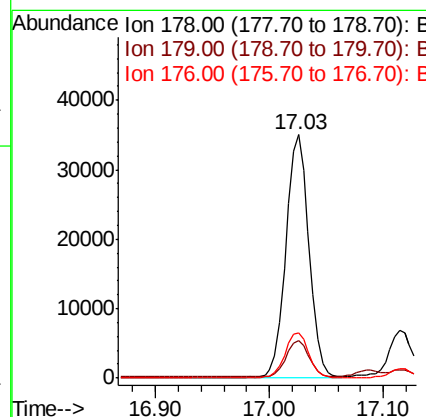
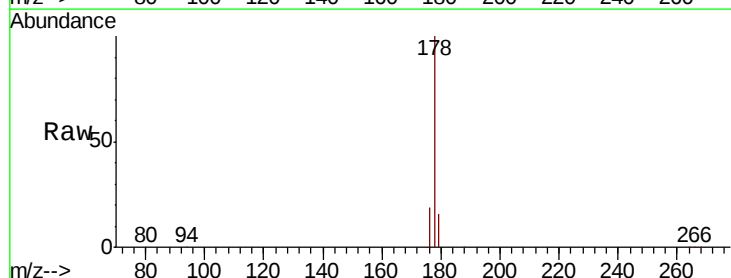
RT: 17.03 min Scan# 3673

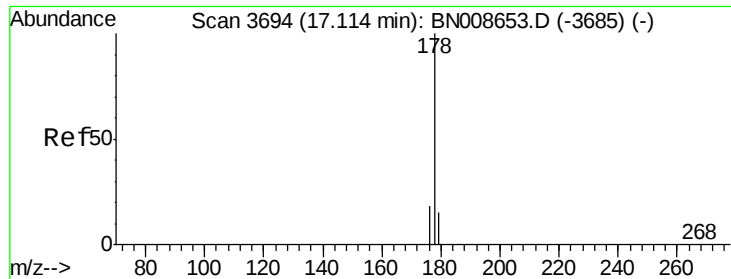
Delta R.T. -0.00 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 48633 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.6  | 12.8  | 19.2  |
| 176       | 18.7  | 16.0  | 24.0  |





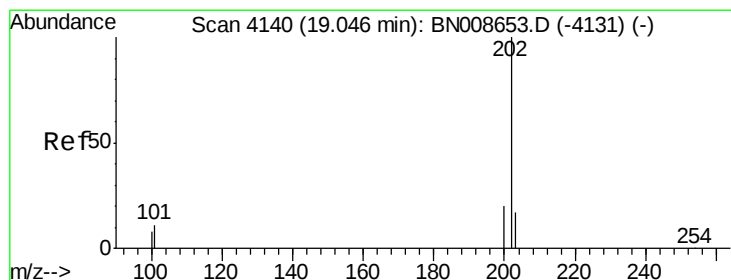
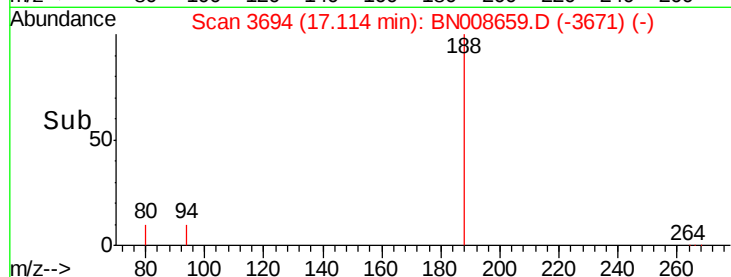
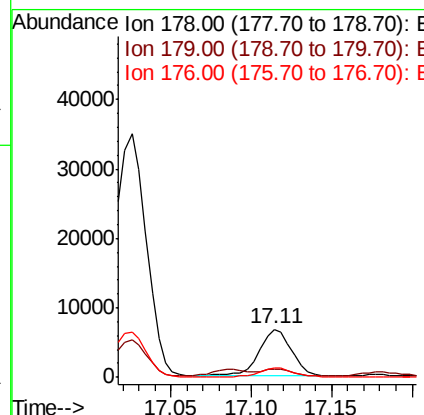
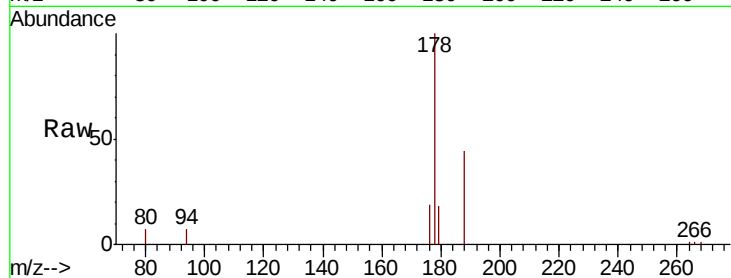
#13  
 Anthracene  
 Concen: 0.171 ng/ul  
 RT: 17.11 min Scan# 3694  
 Delta R.T. -0.00 min  
 Lab File: BN008659.D  
 Acq: 20 Nov 2019 14:19

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLNb1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.6  | 13.0  | 19.4  |
| 176     | 19.4  | 15.3  | 22.9  |

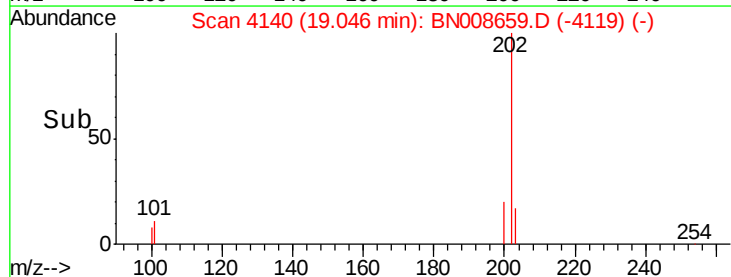
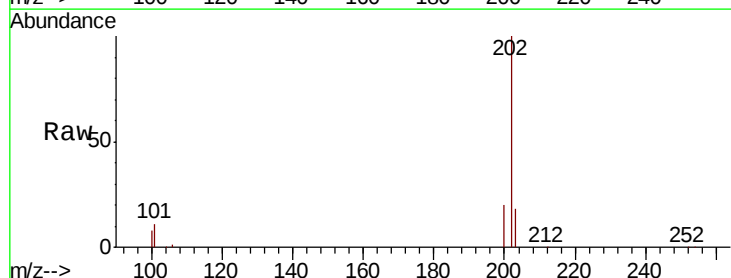
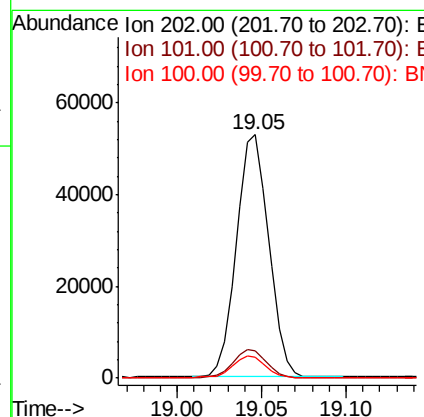
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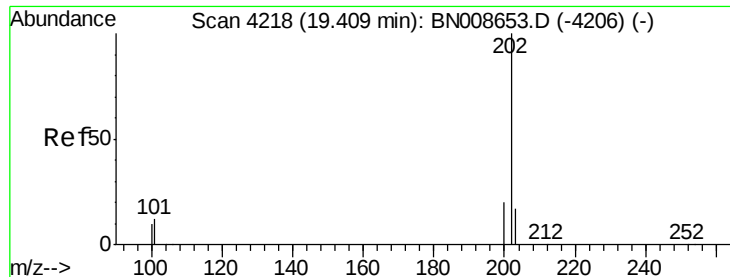
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#15  
 Fluoranthene  
 Concen: 0.981 ng/ul  
 RT: 19.05 min Scan# 4140  
 Delta R.T. -0.00 min  
 Lab File: BN008659.D  
 Acq: 20 Nov 2019 14:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.1  | 0.0   | 29.6  |
| 100     | 8.3   | 0.0   | 27.0  |





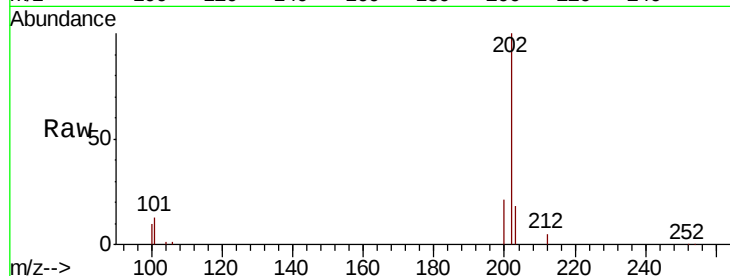
#17  
Pvrene  
Concen: 1.397 ng/ul  
RT: 19.41 min Scan# 4218  
Delta R.T. 0.00 min  
Lab File: BN008659.D  
Acq: 20 Nov 2019 14:19

Instrument :  
BNA\_N  
ClientSampleId :  
JLNB1

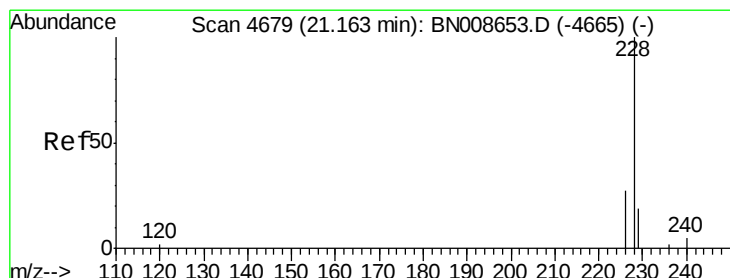
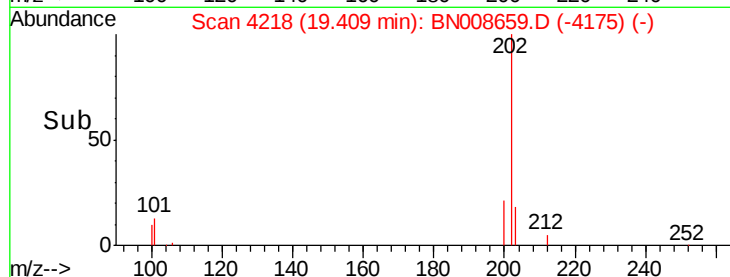
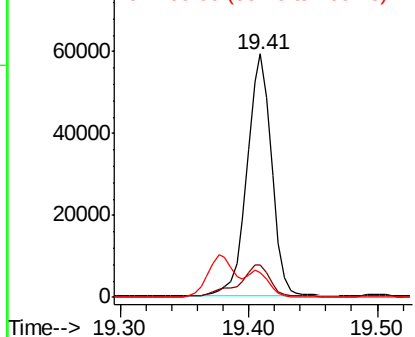
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.2  | 10.2  | 15.2  |
| 100     | 10.4  | 8.2   | 12.2  |

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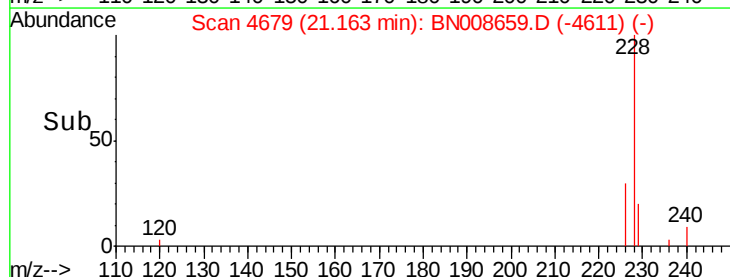
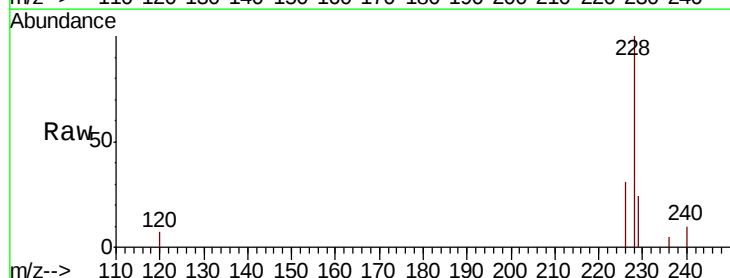
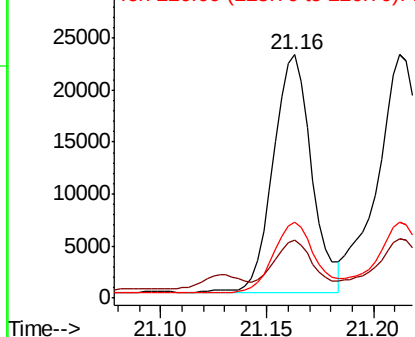
Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

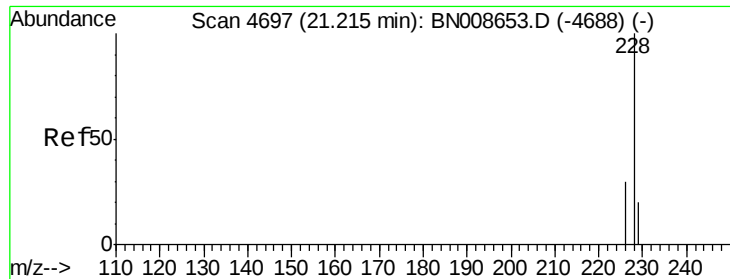


#18  
Benzo(a)anthracene  
Concen: 0.510 ng/ul  
RT: 21.16 min Scan# 4679  
Delta R.T. -0.00 min  
Lab File: BN008659.D  
Acq: 20 Nov 2019 14:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 23.7  | 15.8  | 23.6# |
| 226     | 31.4  | 21.6  | 32.4  |

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: 0.587 ng/ul

RT: 21.21 min Scan# 4696

Delta R.T. -0.00 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

Instrument :

BNA\_N

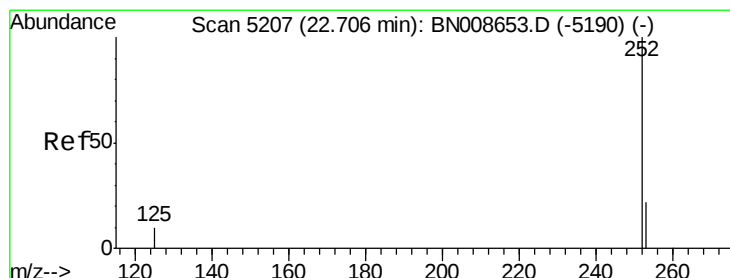
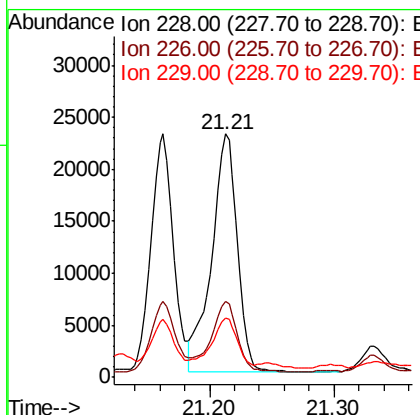
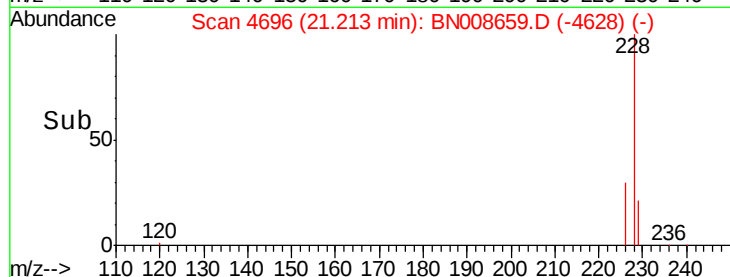
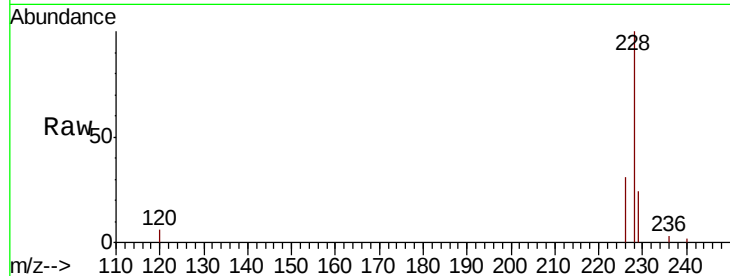
ClientSampleId :

JLNB1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 32447 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.1  | 24.5  | 36.7  |
| 229       | 24.5  | 15.5  | 23.3# |

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#21

Benzo(b)fluoranthene

Concen: 0.542 ng/ul m

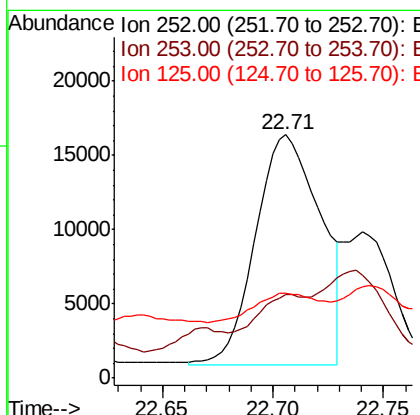
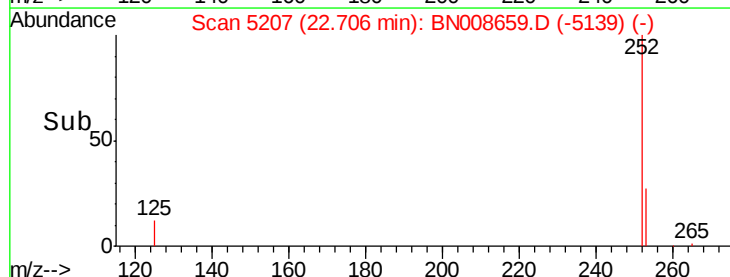
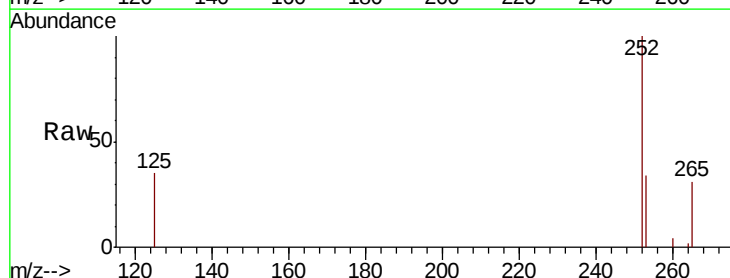
RT: 22.71 min Scan# 5207

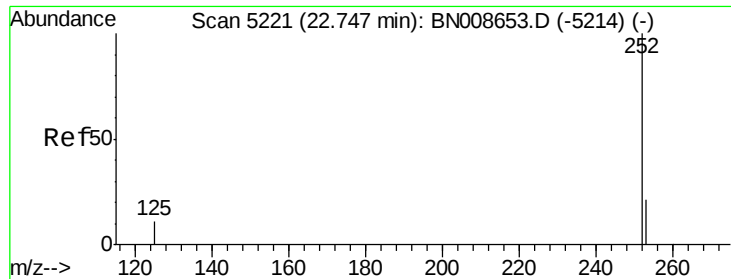
Delta R.T. 0.00 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 31847 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 34.4  | 0.0   | 50.2  |
| 125       | 34.6  | 0.0   | 30.0# |





#22

Benzo(k)fluoranthene

Concen: 0.209 ng/ul m

RT: 22.74 min Scan# 5219

Delta R.T. -0.01 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

Instrument :

BNA\_N

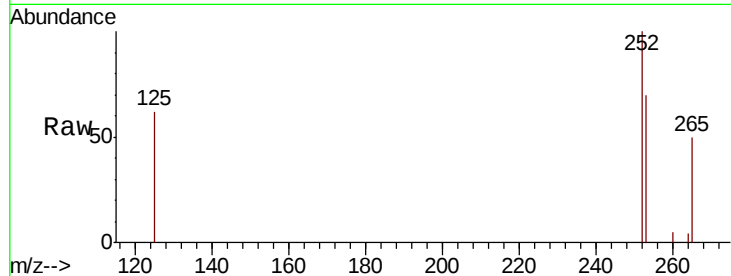
ClientSampleId :

JLNB1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 70.1  | 20.5  | 30.7# |
| 125     | 62.2  | 15.0  | 22.4# |

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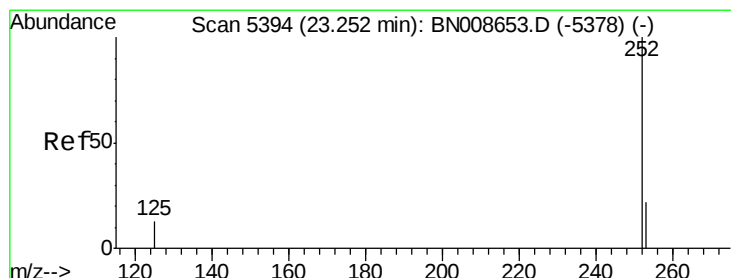
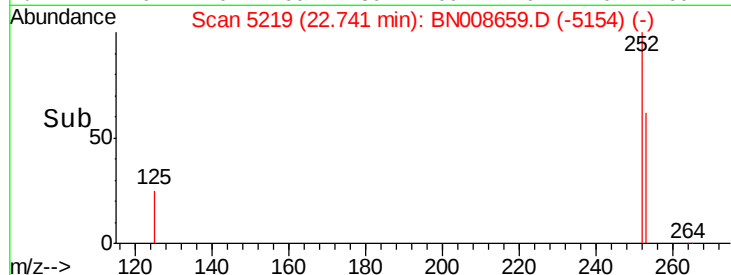
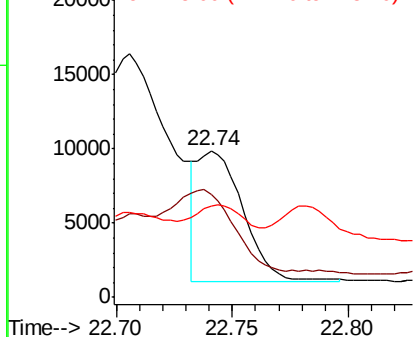


Abundance

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: 0.496 ng/ul

RT: 23.25 min Scan# 5394

Delta R.T. -0.00 min

Lab File: BN008659.D

Acq: 20 Nov 2019 14:19

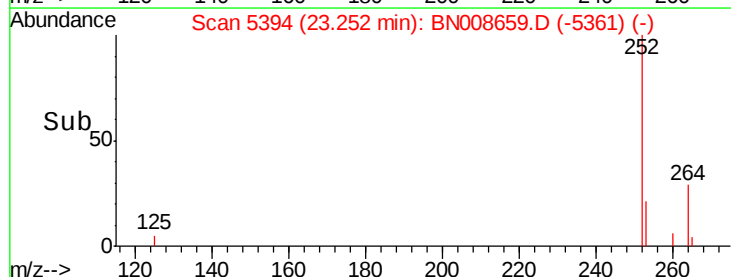
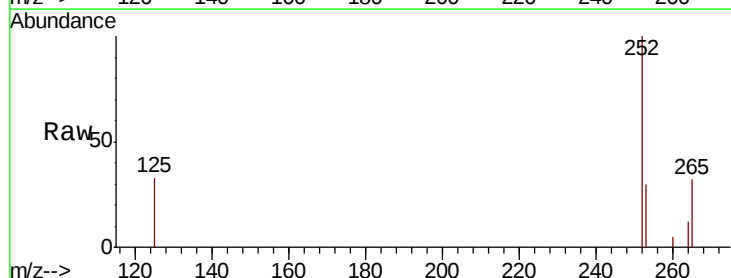
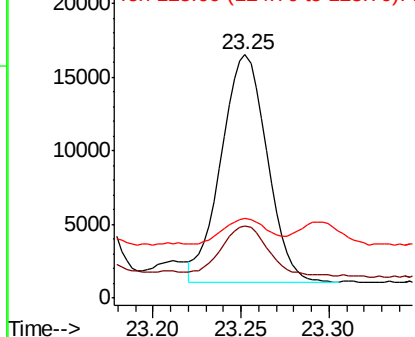
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.8  | 21.4  | 32.2  |
| 125     | 32.8  | 13.8  | 20.8# |

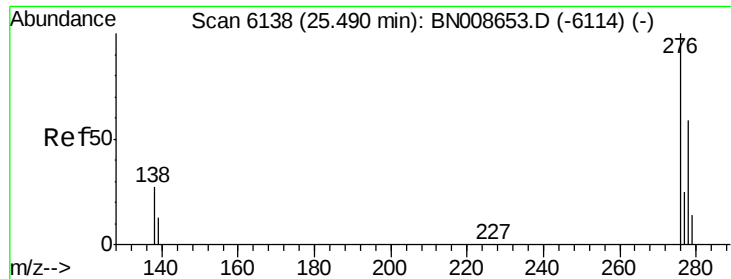
Abundance

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





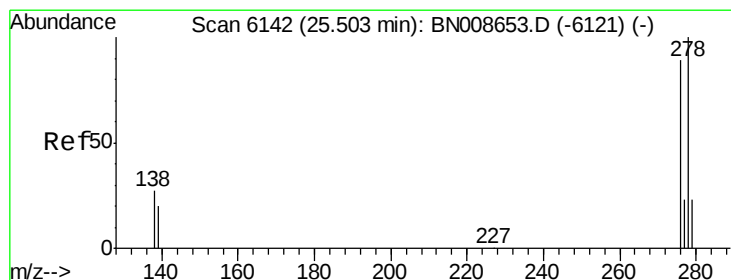
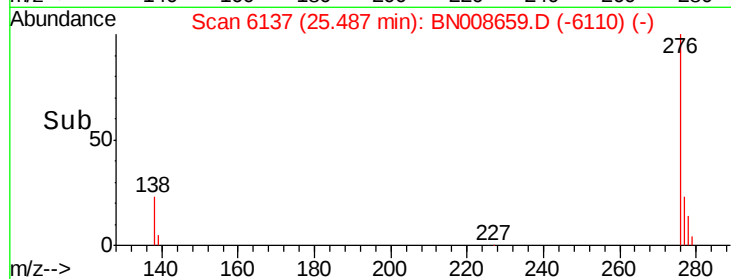
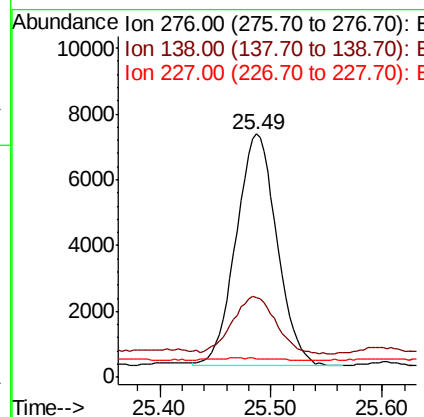
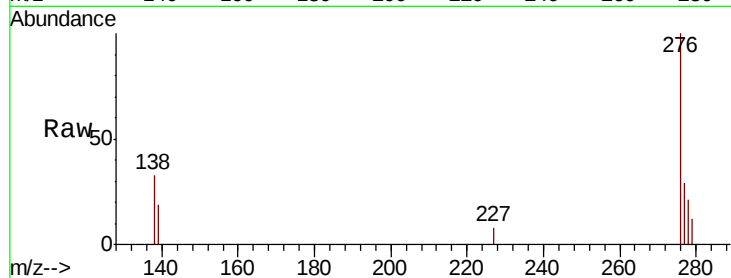
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.279 ng/uL  
 RT: 25.49 min Scan# 6137  
 Delta R.T. -0.01 min  
 Lab File: BN008659.D  
 Acq: 20 Nov 2019 14:19

Instrument :  
 BNA\_N  
 ClientSampleID :  
 JLNBI

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.3  | 21.7  | 32.5  |
| 227     | 1.1   | 0.2   | 0.2   |

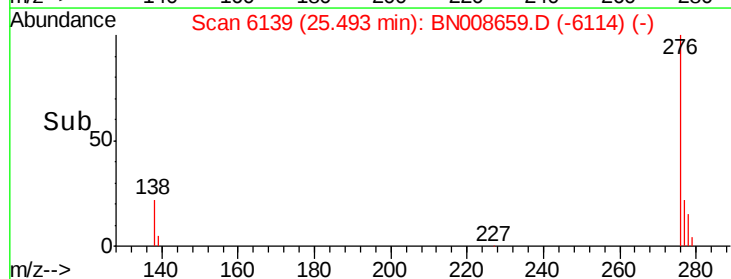
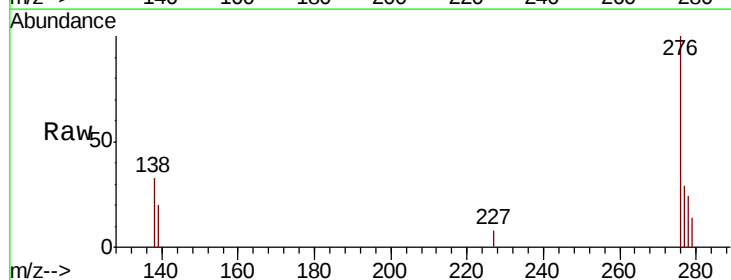
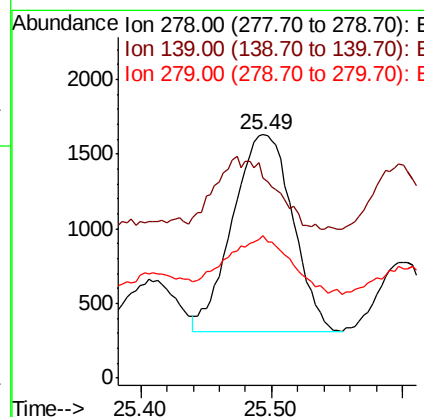
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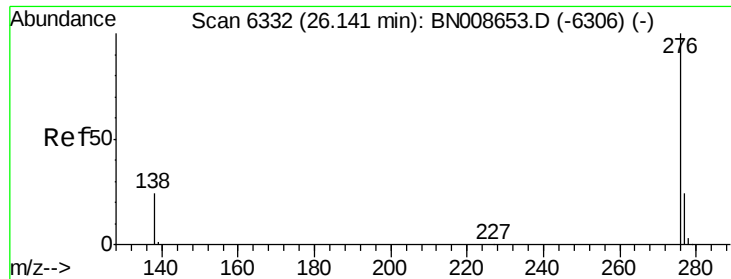
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.081 ng/uL  
 RT: 25.49 min Scan# 6139  
 Delta R.T. -0.02 min  
 Lab File: BN008659.D  
 Acq: 20 Nov 2019 14:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 82.1  | 18.7  | 28.1  |
| 279     | 58.6  | 20.8  | 31.2  |





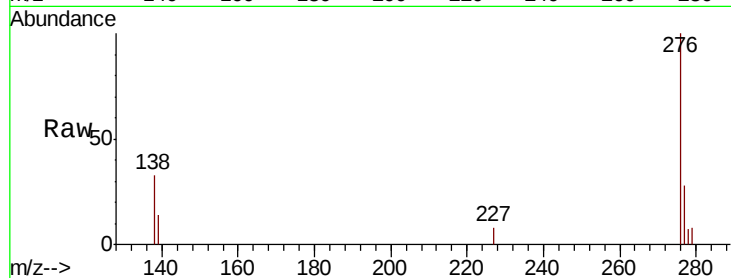
#26  
Benzo(a,h,i)perylene  
Concen: 0.365 ng/ul  
RT: 26.14 min Scan# 6332  
Delta R.T. 0.00 min  
Lab File: BN008659.D  
Acq: 20 Nov 2019 14:19

Instrument :  
BNA\_N  
ClientSampleId :  
JLNB1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.0  | 20.0  | 30.0# |
| 277     | 28.2  | 20.0  | 30.0  |

Manual Integrations  
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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

