

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111819\  
 Data File : BN008603.D  
 Acq On : 18 Nov 2019 14:42  
 Operator : JU  
 Sample : K5678-04DL 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM65DL

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Quant Time: Nov 18 15:15:29 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 15 22:41:33 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 2958     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 10708    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.25 | 164  | 6247     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.00 | 188  | 12682    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.20 | 240  | 10097    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.37 | 264  | 10715    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 2154     | 0.12   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.03 | 212  | 4800     | 0.12   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.44 | 128  | 3798     | 0.118  | ng/ul# | 93       |
| 5) 2-Methylnaphthalene      | 12.06 | 142  | 2297     | 0.102  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.97 | 152  | 2026     | 0.059  | ng/ul# | 79       |
| 9) Fluorene                 | 15.31 | 166  | 738      | 0.025  | ng/ul# | 54       |
| 11) Pentachlorophenol       | 16.65 | 266  | 519      | 0.108  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.04 | 178  | 18039    | 0.422  | ng/ul  | 97       |
| 13) Anthracene              | 17.13 | 178  | 2494     | 0.062  | ng/ul# | 63       |
| 15) Fluoranthene            | 19.06 | 202  | 31072    | 0.591  | ng/ul  | 98       |
| 17) Pyrene                  | 19.42 | 202  | 35002    | 0.864  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.18 | 228  | 14710    | 0.362  | ng/ul# | 77       |
| 19) Chrysene                | 21.23 | 228  | 32526    | 0.816  | ng/ul# | 88       |
| 21) Benzo(b)fluoranthene    | 22.73 | 252  | 24799m   | 0.561  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.76 | 252  | 8229m    | 0.188  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.28 | 252  | 26242    | 0.633  | ng/ul# | 31       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.52 | 276  | 13576    | 0.280  | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.53 | 278  | 4886     | 0.125  | ng/ul# | 1        |
| 26) Benzo(a,h,i)perylene    | 26.18 | 276  | 26271    | 0.647  | ng/ul# | 68       |

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

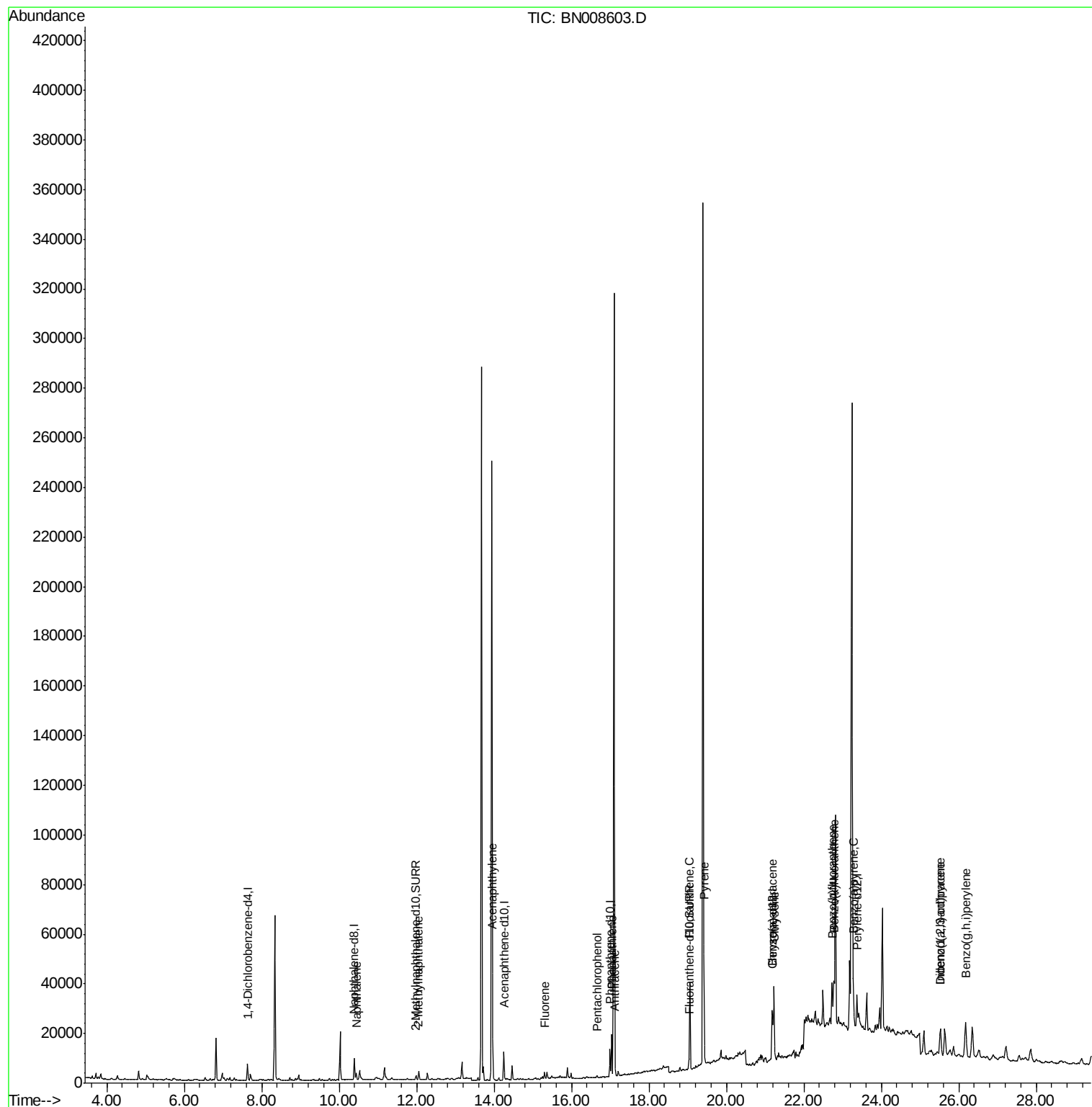
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111819\  
Data File : BN008603.D  
Acq On : 18 Nov 2019 14:42  
Operator : JU  
Sample : K5678-04DL 2X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

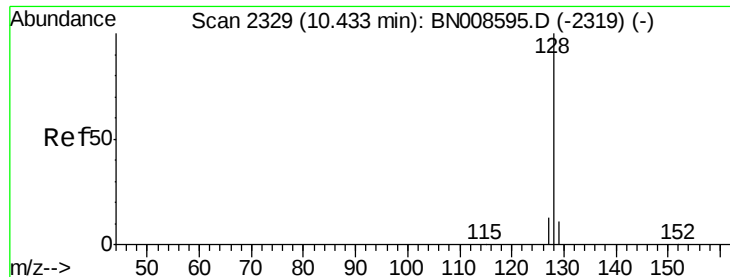
Instrument :  
BNA\_N  
ClientSampleId :  
JLM65DL

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Quant Time: Nov 18 15:15:29 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 15 22:41:33 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.118 ng/ul

RT: 10.44 min Scan# 2330

Delta R.T. 0.00 min

Lab File: BN008603.D

Acq: 18 Nov 2019 14:42

Instrument :

BNA\_N

ClientSampleId :

JLM65DL

Tot Ion:128 Resp: 3798

Ion Ratio Lower Upper

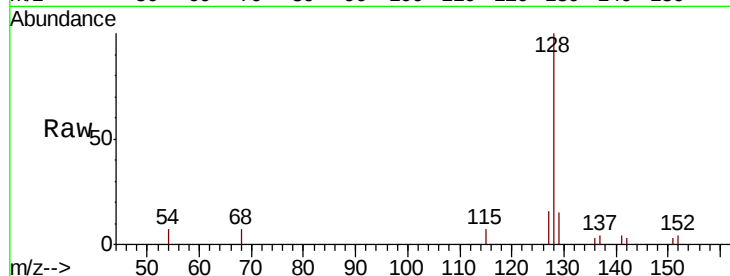
128 100

129 15.0 9.7 14.5#

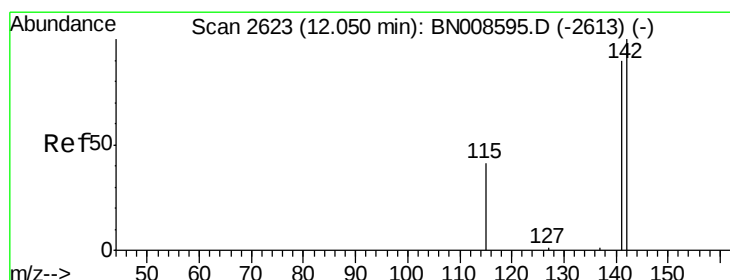
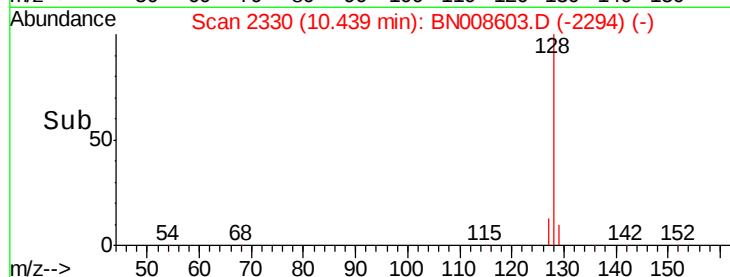
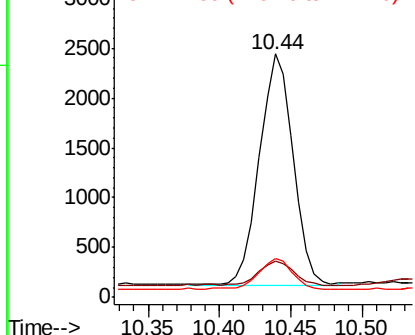
127 15.8 10.8 16.2

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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: 0.102 ng/ul

RT: 12.06 min Scan# 2625

Delta R.T. 0.01 min

Lab File: BN008603.D

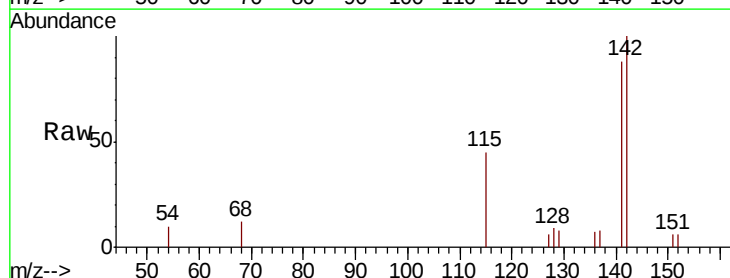
Acq: 18 Nov 2019 14:42

Tgt Ion:142 Resp: 2297

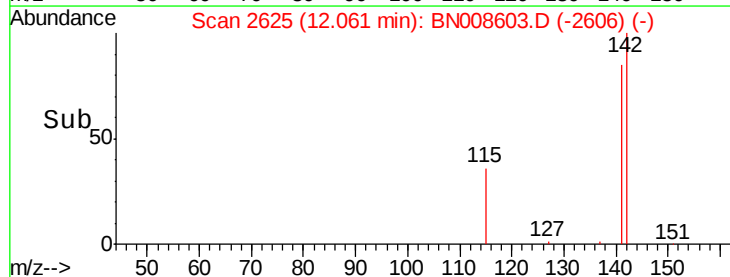
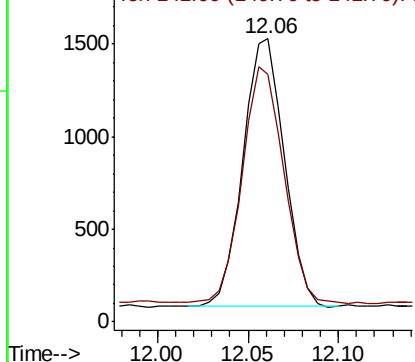
Ion Ratio Lower Upper

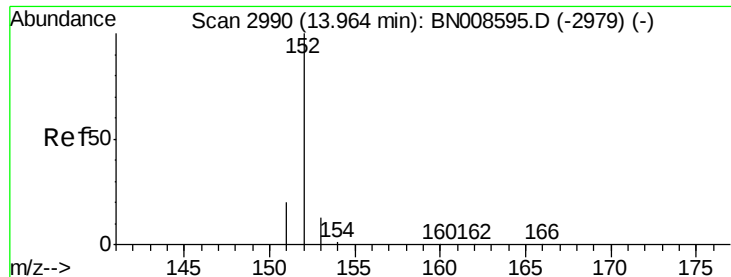
142 100

141 89.9 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: 0.059 ng/ul

RT: 13.97 min Scan# 2991

Delta R.T. 0.00 min

Lab File: BN008603.D

Acq: 18 Nov 2019 14:42

Instrument :

BNA\_N

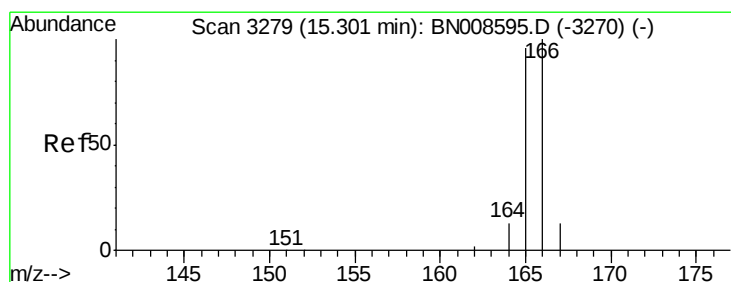
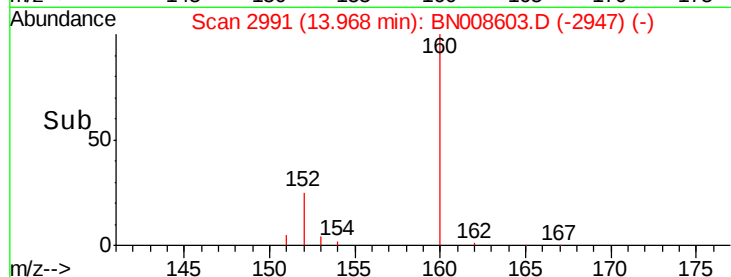
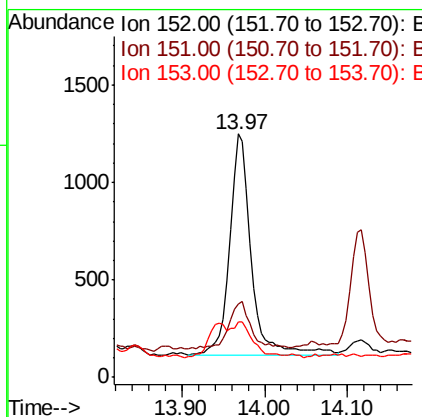
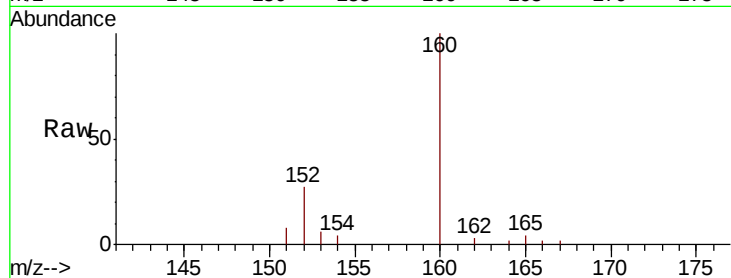
ClientSampleId :

JLM65DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2026  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 30.3  | 16.6  | 24.8# |
| 153       | 22.6  | 11.1  | 16.7# |

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#9

Fluorene

Concen: 0.025 ng/ul

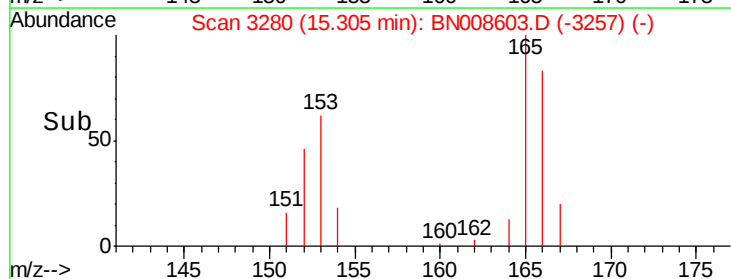
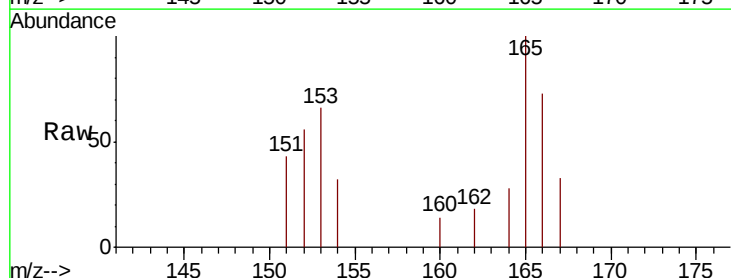
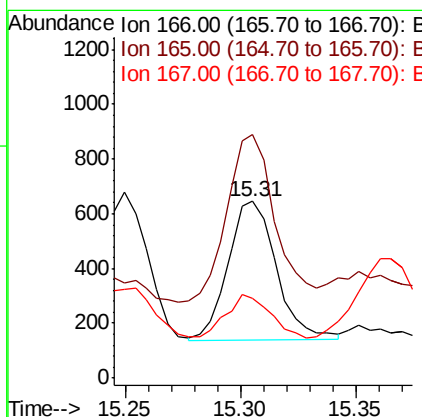
RT: 15.31 min Scan# 3280

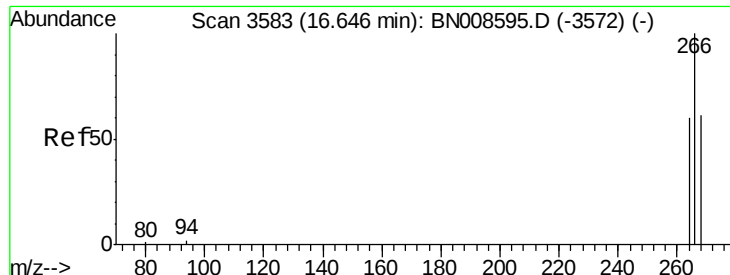
Delta R.T. 0.00 min

Lab File: BN008603.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 738    |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 137.8 | 77.4  | 116.0# |
| 167       | 45.1  | 11.4  | 17.0#  |





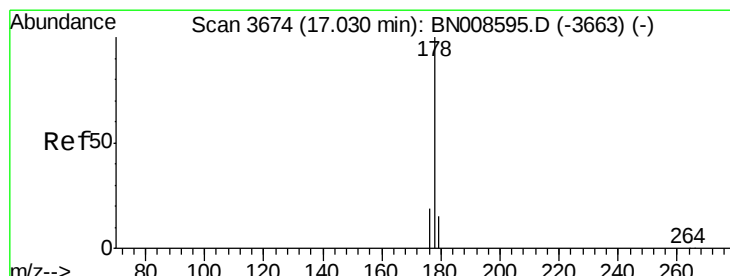
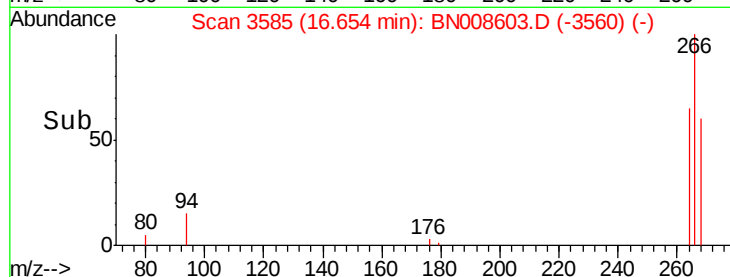
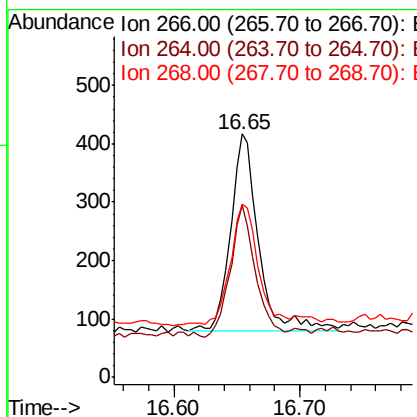
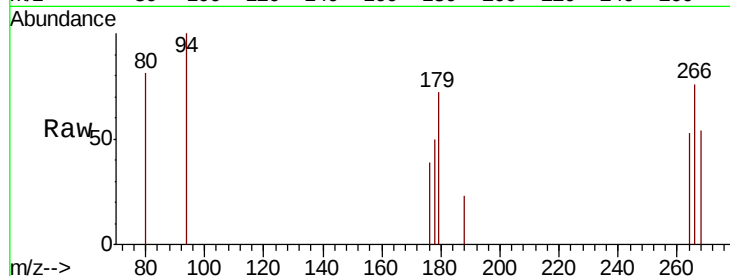
#11  
 Pentachlorophenol  
 Concen: 0.108 ng/ul  
 RT: 16.65 min Scan# 3585  
 Delta R.T. 0.00 min  
 Lab File: BN008603.D  
 Acq: 18 Nov 2019 14:42

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM65DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 266   | Resp: | 519  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 60.3  | 49.2  | 73.8 |
| 268       | 62.8  | 50.9  | 76.3 |

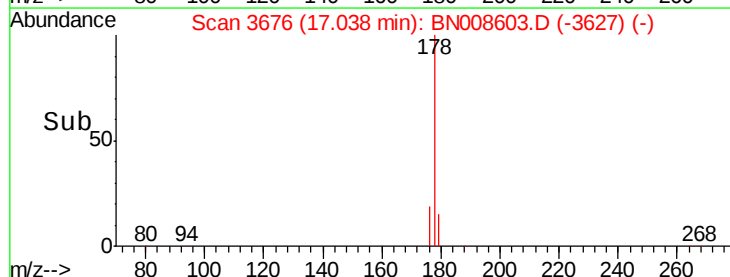
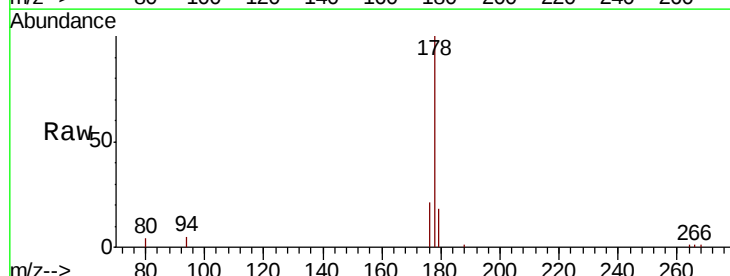
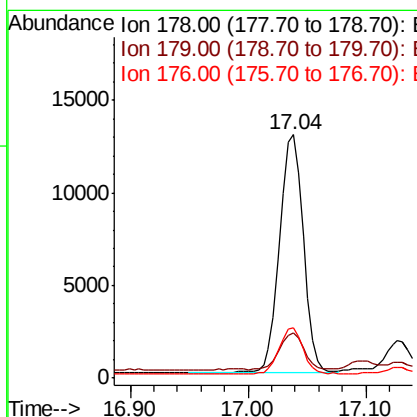
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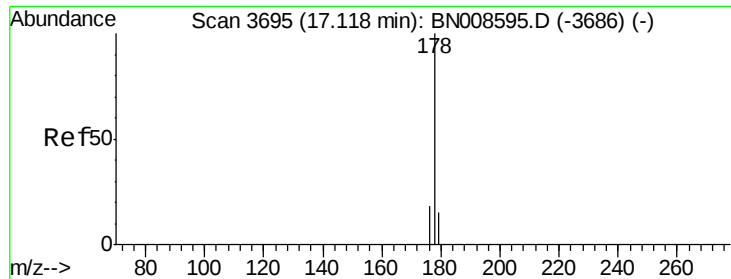
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#12  
 Phenanthrene  
 Concen: 0.422 ng/ul  
 RT: 17.04 min Scan# 3676  
 Delta R.T. 0.01 min  
 Lab File: BN008603.D  
 Acq: 18 Nov 2019 14:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 18039 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 18.5  | 12.8  | 19.2  |
| 176       | 20.5  | 16.0  | 24.0  |





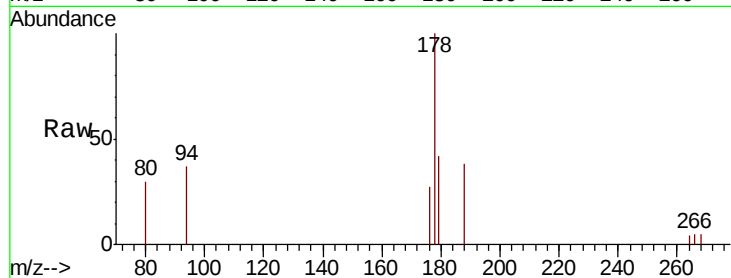
#13  
 Anthracene  
 Concen: 0.062 ng/ul  
 RT: 17.13 min Scan# 3697  
 Delta R.T. 0.00 min  
 Lab File: BN008603.D  
 Acq: 18 Nov 2019 14:42

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM65DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 41.6  | 13.0  | 19.4# |
| 176     | 27.4  | 15.3  | 22.9# |

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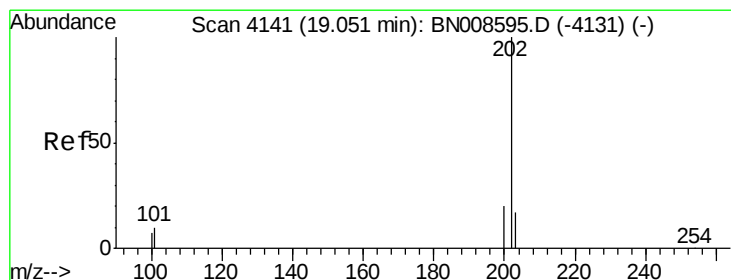
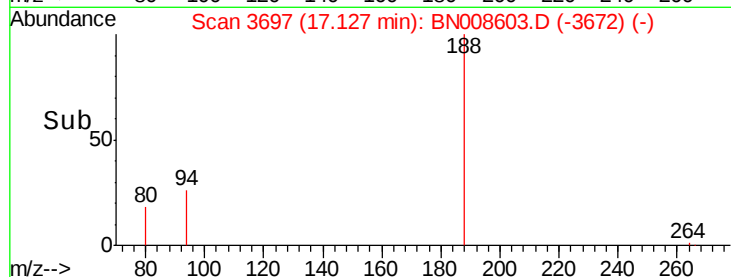
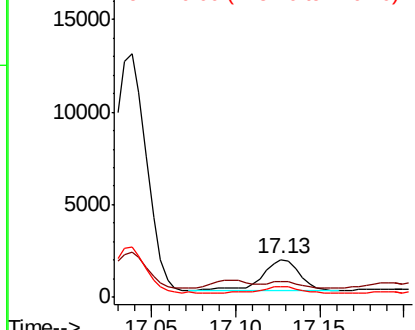


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15  
 Fluoranthene  
 Concen: 0.591 ng/ul  
 RT: 19.06 min Scan# 4143  
 Delta R.T. 0.00 min  
 Lab File: BN008603.D  
 Acq: 18 Nov 2019 14:42

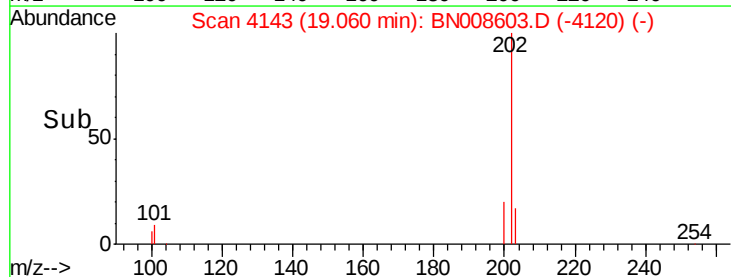
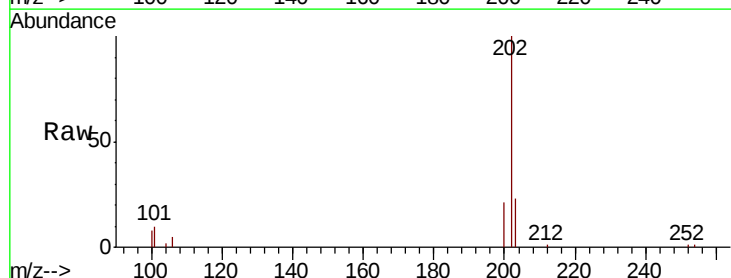
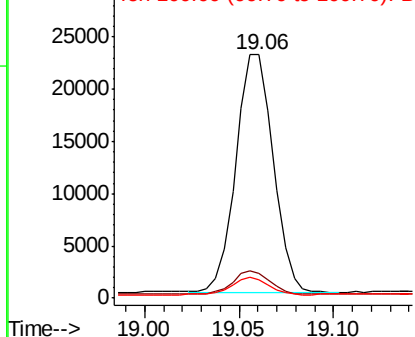
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 0.0   | 29.6  |
| 100     | 7.5   | 0.0   | 27.0  |

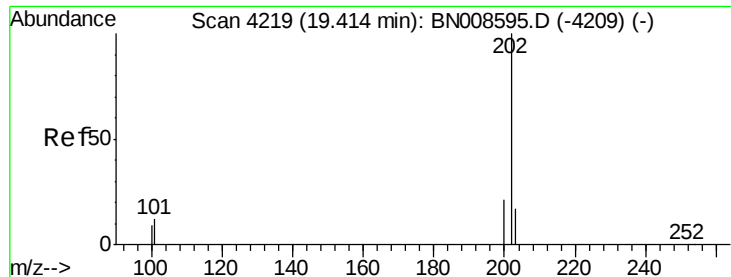
Abundance

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





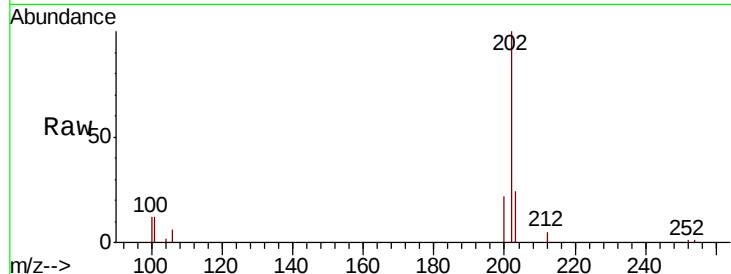
#17  
Pvrene  
Concen: 0.864 ng/ul  
RT: 19.42 min Scan# 4221  
Delta R.T. 0.01 min  
Lab File: BN008603.D  
Acq: 18 Nov 2019 14:42

Instrument :  
BNA\_N  
ClientSampleId :  
JLM65DL

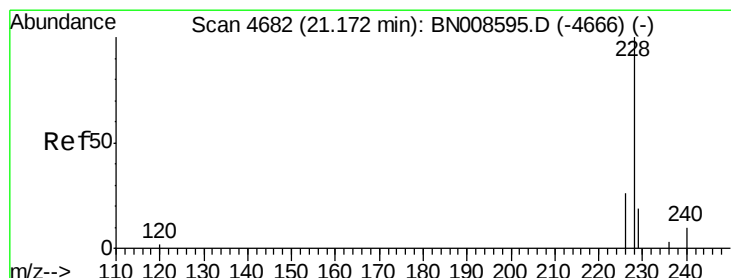
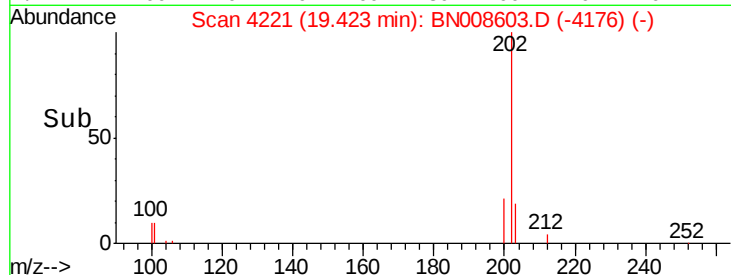
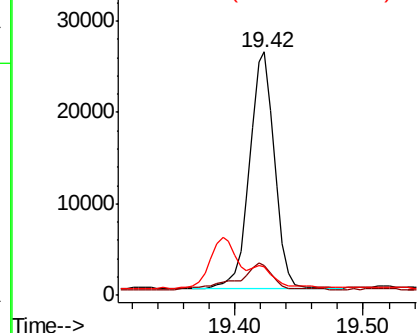
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.3  | 10.2       | 15.2  |
| 100     | 11.6  | 8.2        | 12.2  |

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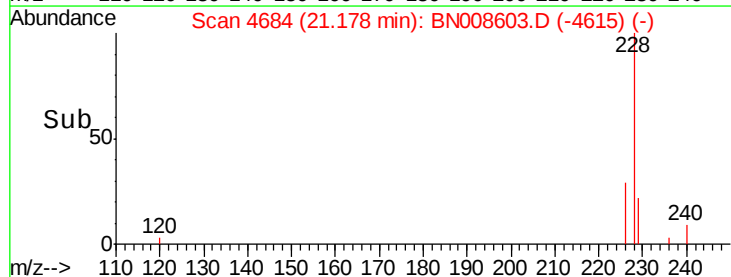
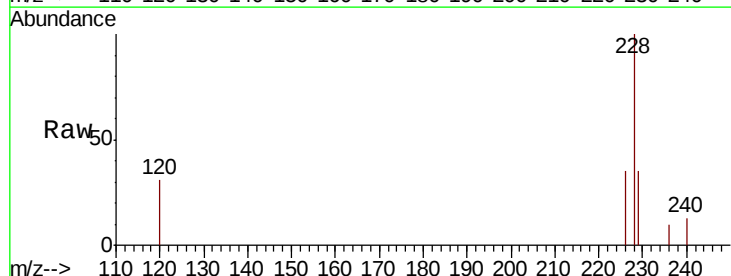
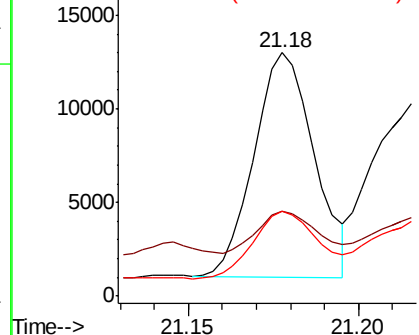
Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

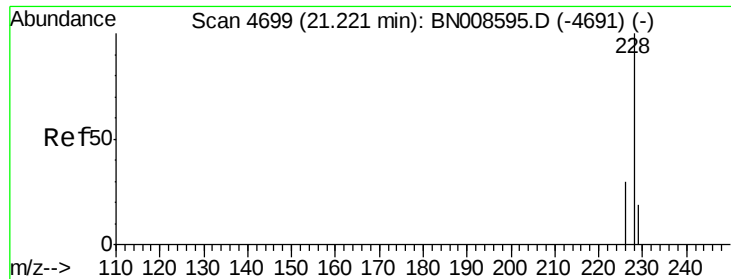


#18  
Benzo(a)anthracene  
Concen: 0.362 ng/ul  
RT: 21.18 min Scan# 4684  
Delta R.T. 0.00 min  
Lab File: BN008603.D  
Acq: 18 Nov 2019 14:42

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 34.9  | 15.8       | 23.6# |
| 226     | 34.8  | 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





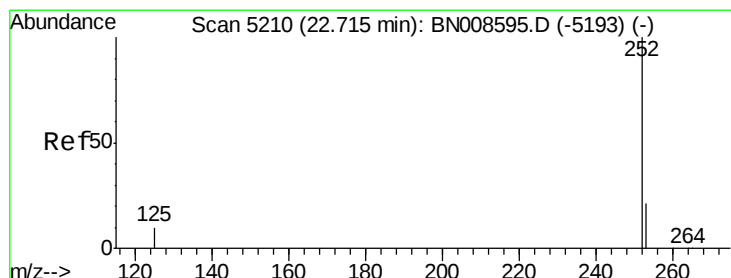
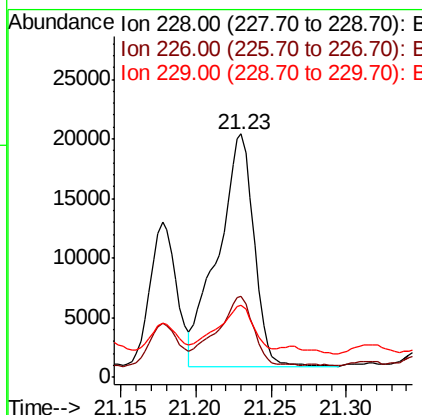
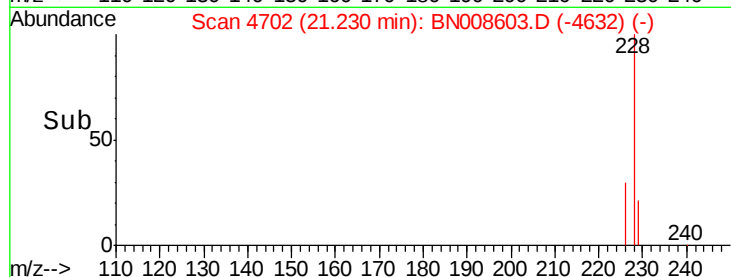
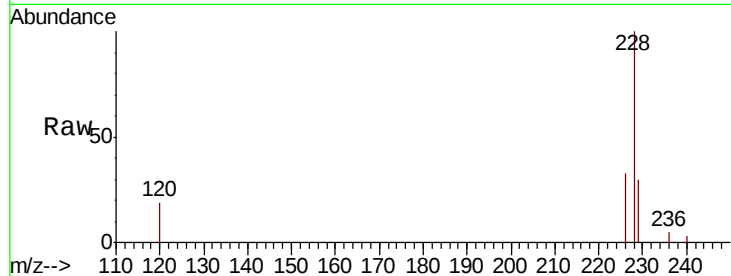
#19  
Chrysene  
Concen: 0.816 ng/ul  
RT: 21.23 min Scan# 4702  
Delta R.T. 0.01 min  
Lab File: BN008603.D  
Acq: 18 Nov 2019 14:42

Instrument :  
BNA\_N  
ClientSampleId :  
JLM65DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.5  | 24.5  | 36.7  |
| 229     | 29.5  | 15.5  | 23.3  |

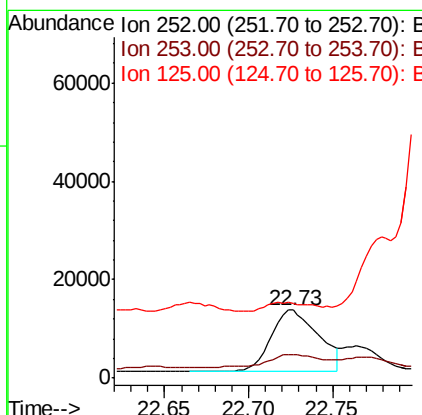
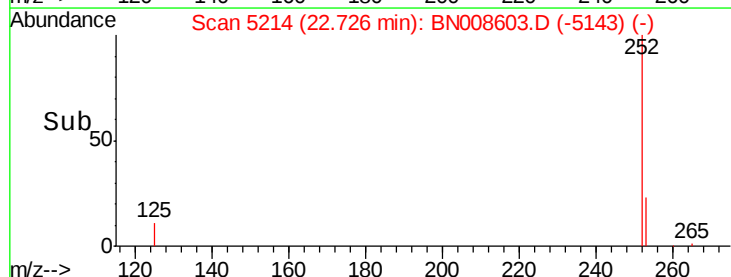
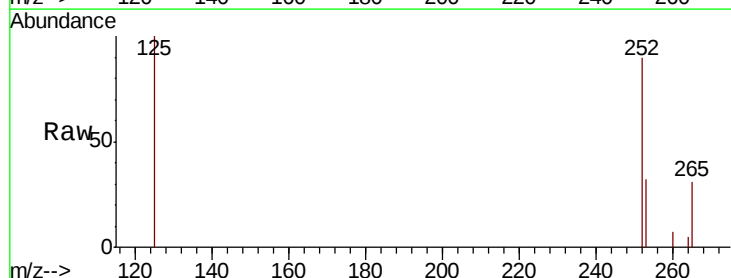
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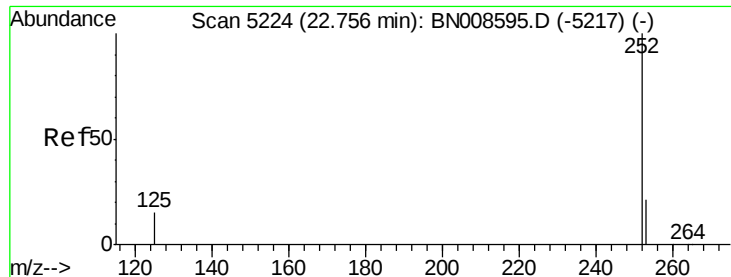
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#21  
Benzo(b)fluoranthene  
Concen: 0.561 ng/ul m  
RT: 22.73 min Scan# 5214  
Delta R.T. 0.01 min  
Lab File: BN008603.D  
Acq: 18 Nov 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.4  | 0.0   | 50.2  |
| 125     | 110.6 | 0.0   | 30.0  |





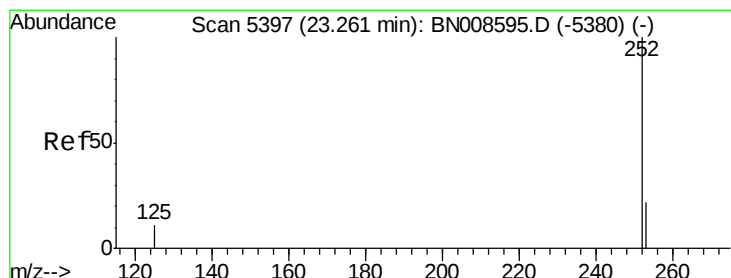
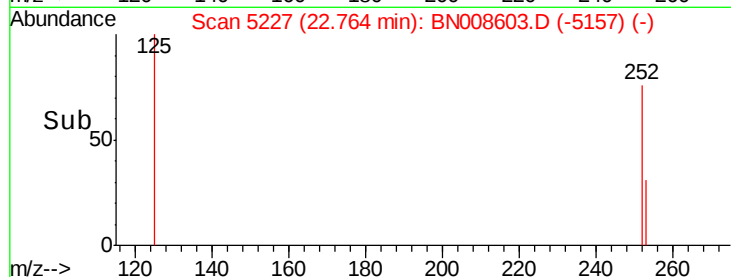
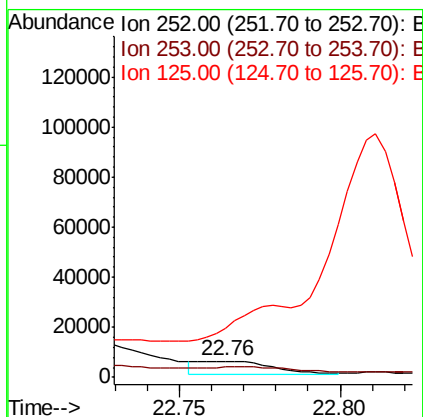
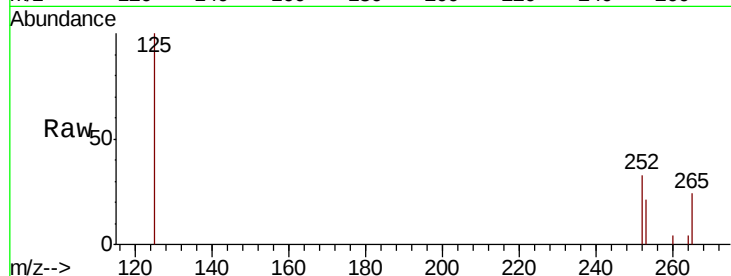
#22  
Benzo(k)fluoranthene  
Concen: 0.188 ng/ul m  
RT: 22.76 min Scan# 5227  
Delta R.T. 0.01 min  
Lab File: BN008603.D  
Acq: 18 Nov 2019 14:42

Instrument :  
BNA\_N  
ClientSampleId :  
JLM65DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 63.5  | 20.5  | 30.7# |
| 125     | 302.1 | 15.0  | 22.4# |

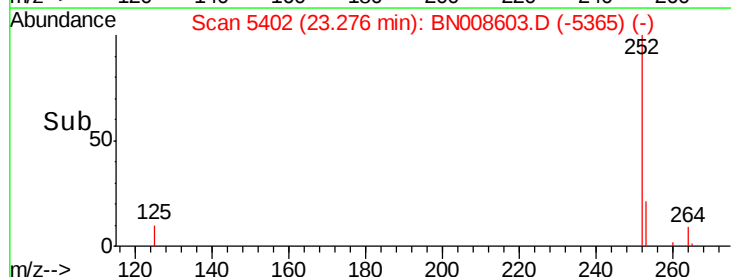
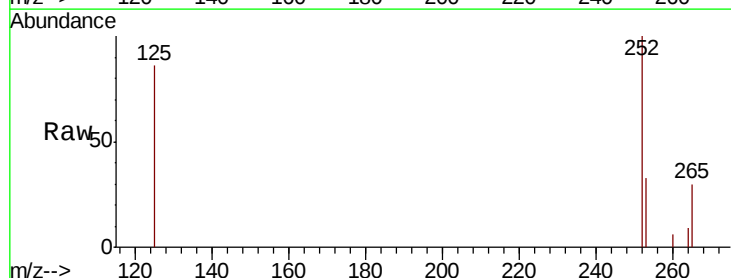
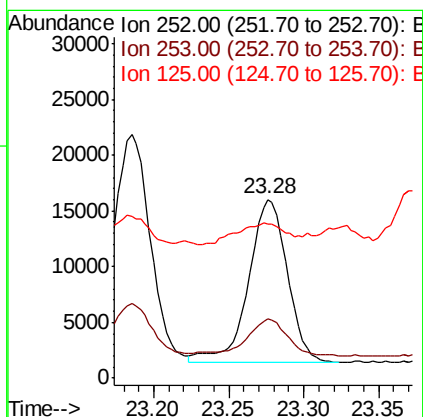
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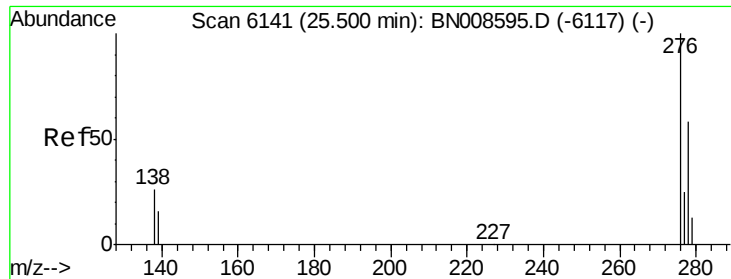
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#23  
Benzo(a)pyrene  
Concen: 0.633 ng/ul  
RT: 23.28 min Scan# 5402  
Delta R.T. 0.01 min  
Lab File: BN008603.D  
Acq: 18 Nov 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.9  | 21.4  | 32.2# |
| 125     | 85.8  | 13.8  | 20.8# |





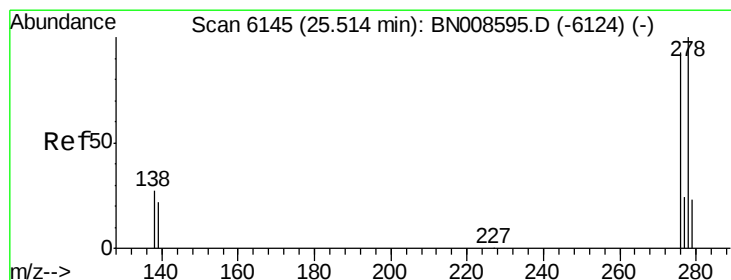
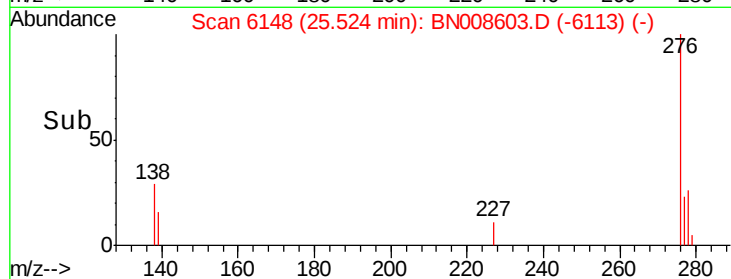
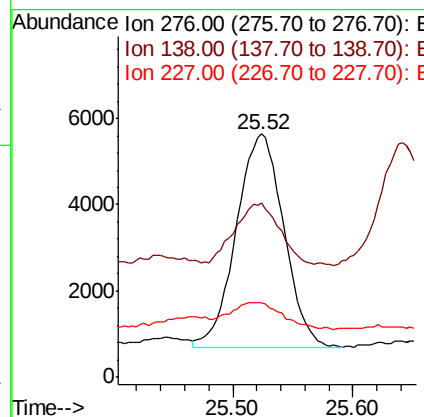
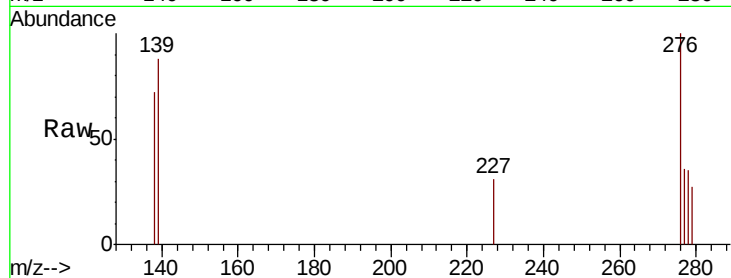
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.280 ng/ul  
 RT: 25.52 min Scan# 6148  
 Delta R.T. 0.02 min  
 Lab File: BN008603.D  
 Acq: 18 Nov 2019 14:42

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM65DL

Tot Ion:276 Resp: 13576  
 Ion Ratio Lower Upper  
 276 100  
 138 27.3 21.7 32.5  
 227 13.8 0.2 0.2#

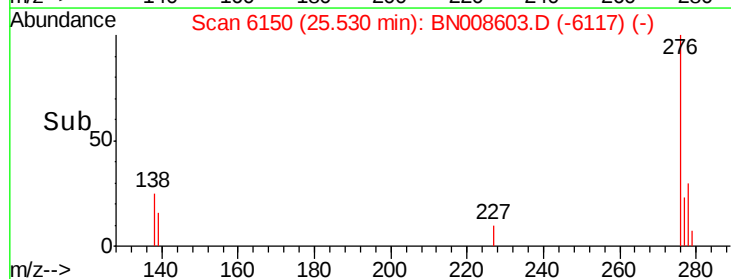
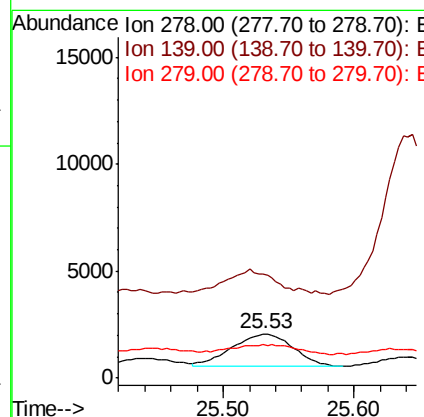
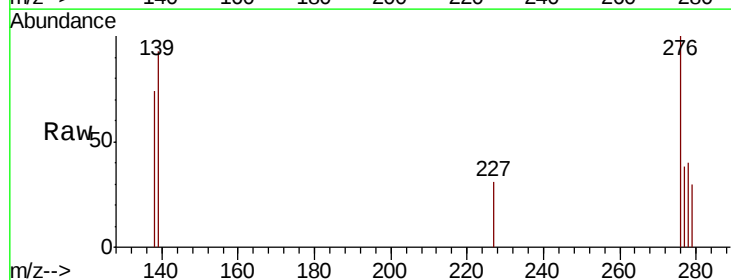
Manual Integrations  
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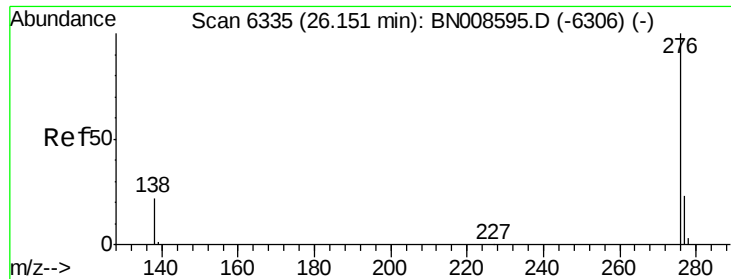
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.125 ng/ul  
 RT: 25.53 min Scan# 6150  
 Delta R.T. 0.01 min  
 Lab File: BN008603.D  
 Acq: 18 Nov 2019 14:42

Tgt Ion:278 Resp: 4886  
 Ion Ratio Lower Upper  
 278 100  
 139 235.1 18.7 28.1#  
 279 76.0 20.8 31.2#





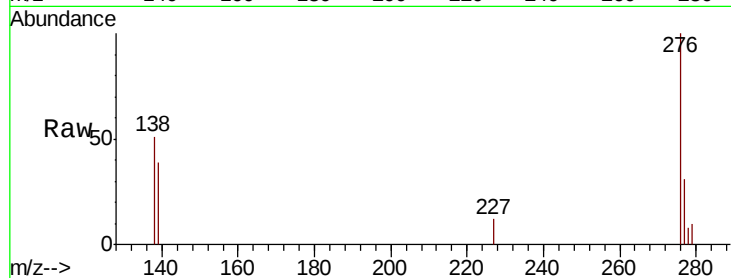
#26  
Benzo(a,h,i)perylene  
Concen: 0.647 ng/ul  
RT: 26.18 min Scan# 6343  
Delta R.T. 0.02 min  
Lab File: BN008603.D  
Acq: 18 Nov 2019 14:42

Instrument :  
BNA\_N  
ClientSampleId :  
JLM65DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 51.3  | 20.0  | 30.0# |
| 277     | 30.6  | 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

