

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102119\  
 Data File : BN008302.D  
 Acq On : 22 Oct 2019 03:12  
 Operator : JU  
 Sample : K5199-12  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP79

Manual Integrations  
 APPROVED

mohammad  
 10/22/2019 3:28:16 PM

Quant Time: Oct 22 03:56:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 21 23:58:15 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.58  | 152  | 2037     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.35 | 136  | 9648     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.22 | 164  | 7457     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.97 | 188  | 12765m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.18 | 240  | 9947     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.36 | 264  | 10893    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.95 | 152  | 4863     | 0.30   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.01 | 212  | 13546    | 0.31   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 10.39 | 128  | 32273    | 1.175  | ng/ul  | 98       |
| 5) 2-Methylnaphthalene      | 12.02 | 142  | 19009    | 1.009  | ng/ul  | 100      |
| 7) Acenaphthylene           | 13.94 | 152  | 88387    | 2.488  | ng/ul  | 100      |
| 8) Acenaphthene             | 14.28 | 153  | 48280    | 1.748  | ng/ul  | 98       |
| 9) Fluorene                 | 15.28 | 166  | 68475    | 2.183  | ng/ul  | 98       |
| 11) Pentachlorophenol       | 16.64 | 266  | 938      | 0.304  | ng/ul  | 93       |
| 12) Phenanthrene            | 17.01 | 178  | 1284561  | 34.371 | ng/ul  | 99       |
| 13) Anthracene              | 17.10 | 178  | 284863   | 8.661  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.05 | 202  | 2707875  | 54.860 | ng/ul  | 98       |
| 17) Pyrene                  | 19.41 | 202  | 2836204  | 71.611 | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.17 | 228  | 1533967  | 42.417 | ng/ul  | 96       |
| 19) Chrysene                | 21.22 | 228  | 1609529  | 36.266 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.72 | 252  | 1573814m | 44.382 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.76 | 252  | 581805m  | 14.484 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.27 | 252  | 1217983  | 32.640 | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.52 | 276  | 713078   | 16.225 | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.52 | 278  | 199483   | 5.742  | ng/ul  | 99       |
| 26) Benzo(g,h,i)perylene    | 26.18 | 276  | 545588   | 13.538 | ng/ul  | 99       |

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

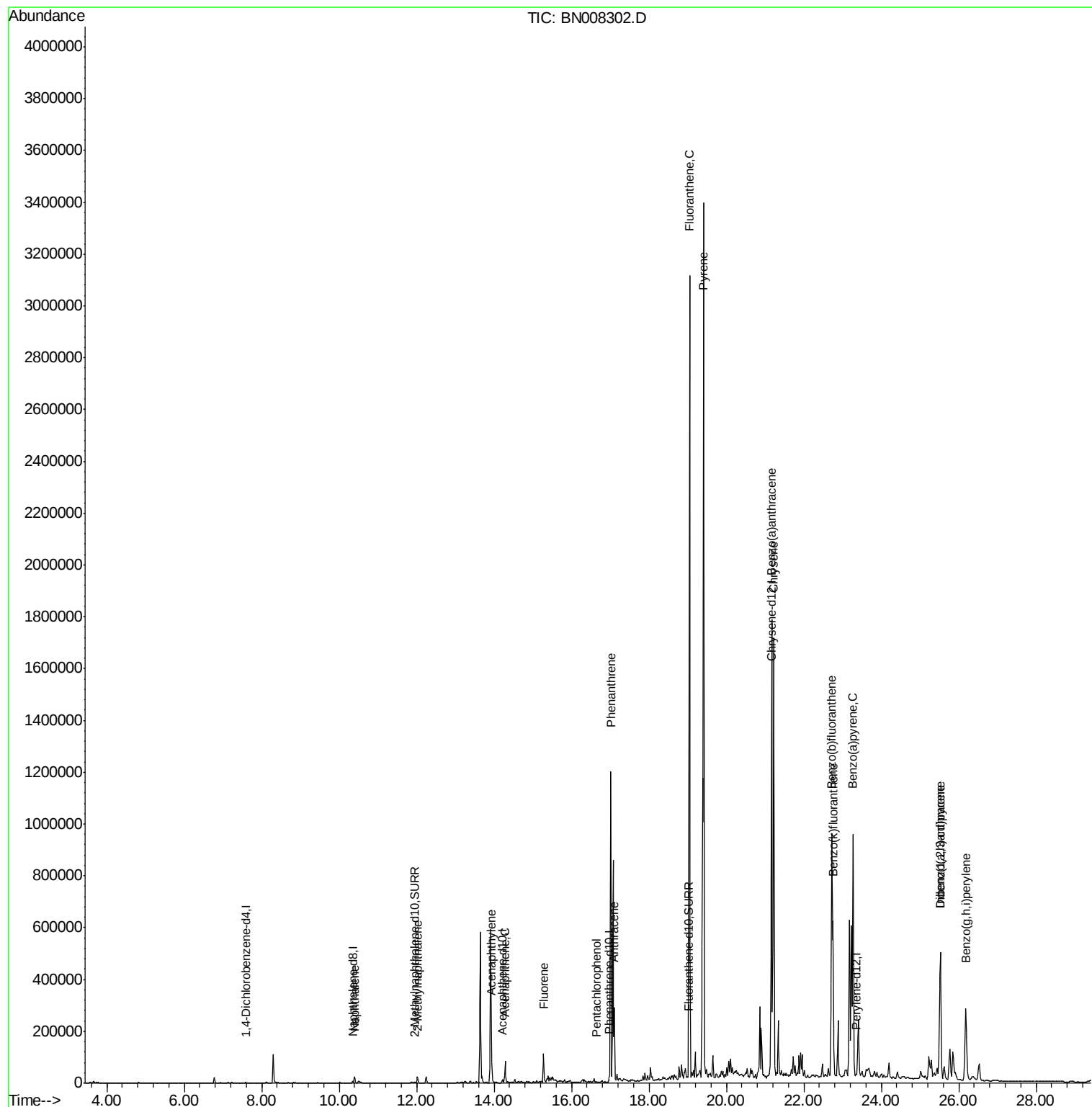
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102119\  
Data File : BN008302.D  
Acq On : 22 Oct 2019 03:12  
Operator : JU  
Sample : K5199-12  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

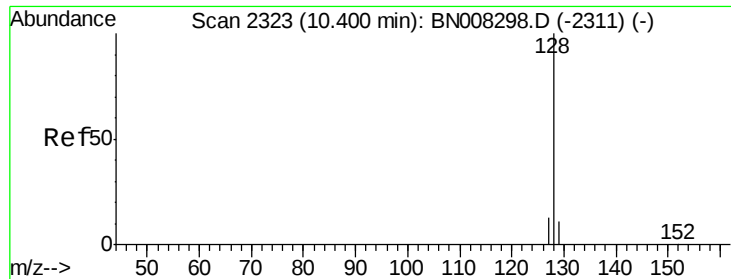
Instrument :  
BNA\_N  
ClientSampleId :  
BEP79

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Quant Time: Oct 22 03:56:48 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 21 23:58:15 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.175 ng/ul

RT: 10.39 min Scan# 2322

Delta R.T. -0.01 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

Instrument :

BNA\_N

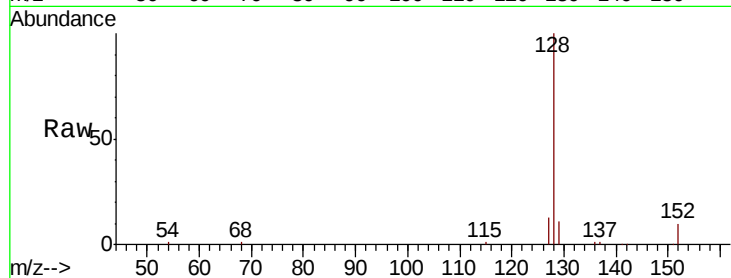
ClientSampleId :

BEP79

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:128 | Resp: | 32273     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 129         | 11.5  | 9.8 14.8  |
| 127         | 13.5  | 11.1 16.7 |

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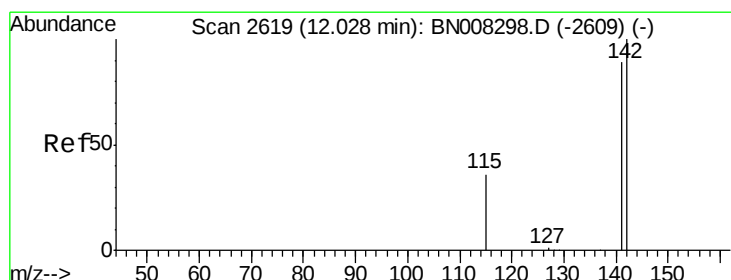
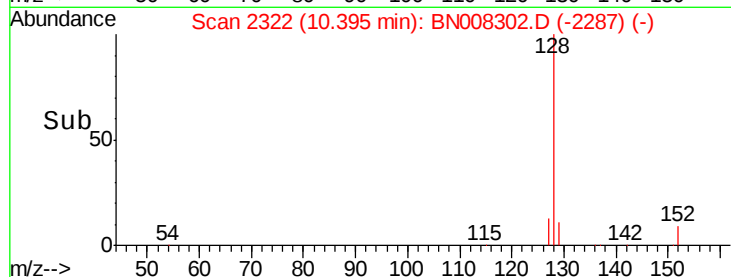
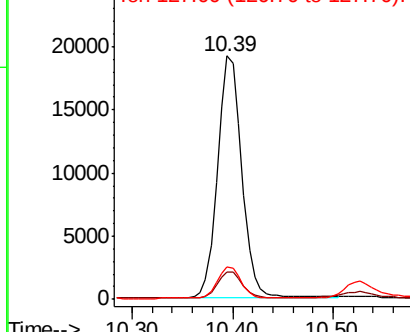


Abundance

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: 1.009 ng/ul

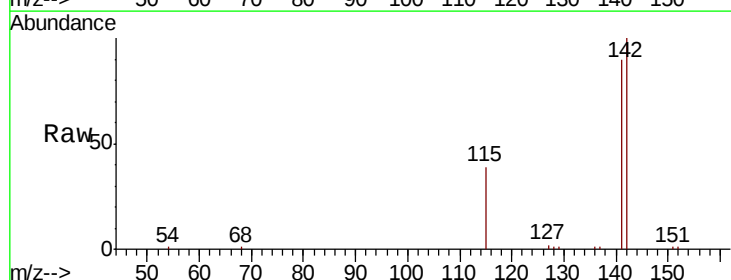
RT: 12.02 min Scan# 2617

Delta R.T. -0.01 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

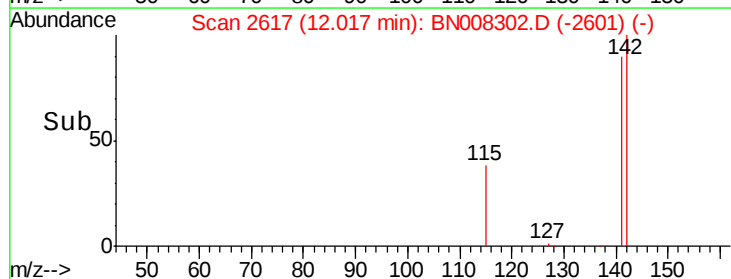
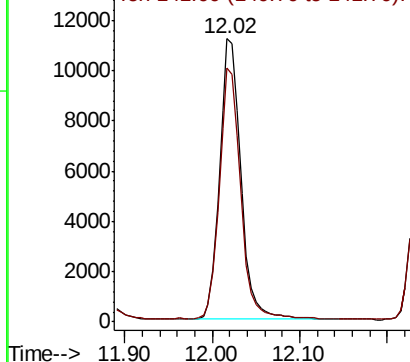
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 19009      |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 88.9  | 71.4 107.2 |

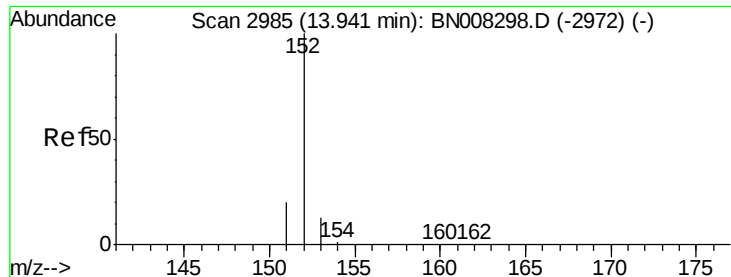


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 2.488 ng/ul

RT: 13.94 min Scan# 2984

Delta R.T. -0.01 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

Instrument :

BNA\_N

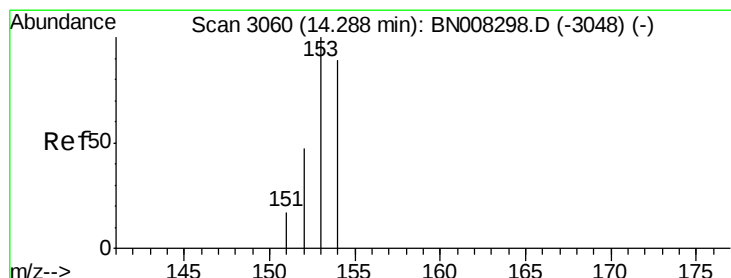
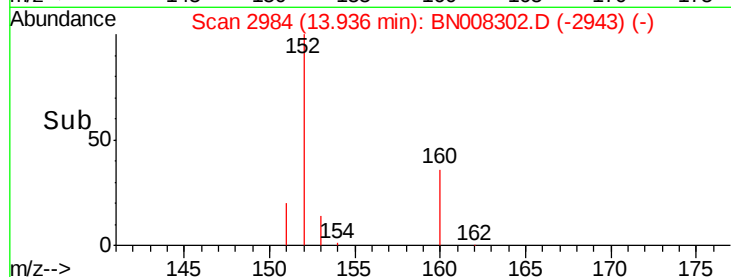
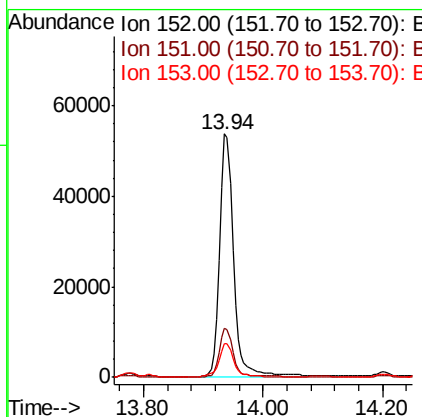
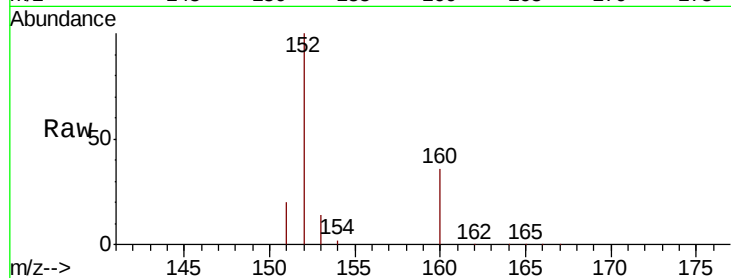
ClientSampleId :

BEP79

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 88387 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.1  | 16.2  | 24.4  |
| 153       | 13.7  | 11.0  | 16.4  |

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#8

Acenaphthene

Concen: 1.748 ng/ul

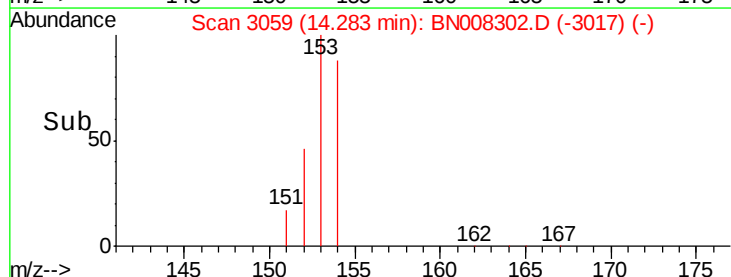
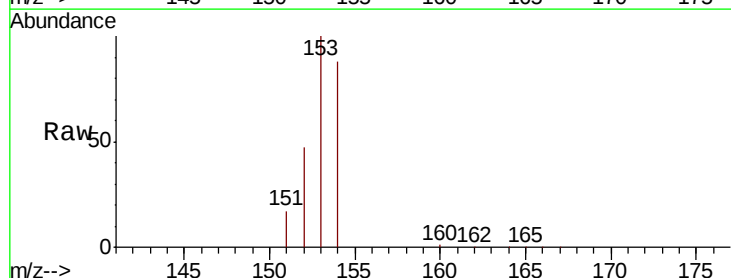
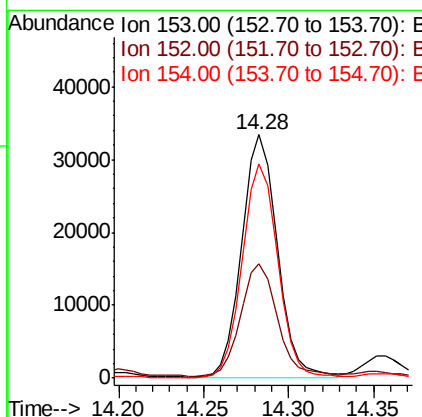
RT: 14.28 min Scan# 3059

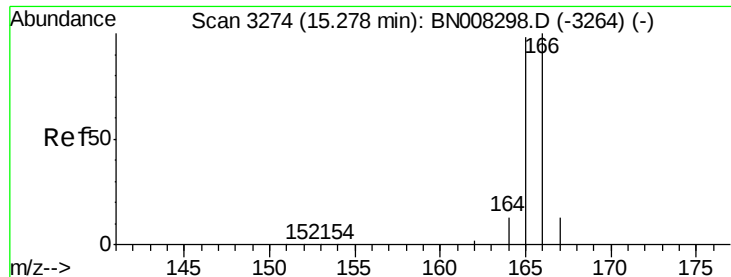
Delta R.T. -0.00 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 48280 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 46.9  | 38.2  | 57.2  |
| 154       | 88.0  | 71.8  | 107.8 |





#9

Fluorene

Concen: 2.183 ng/ul

RT: 15.28 min Scan# 3274

Delta R.T. -0.00 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

Instrument :

BNA\_N

ClientSampleId :

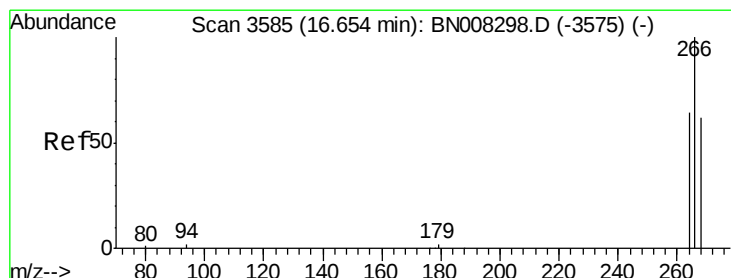
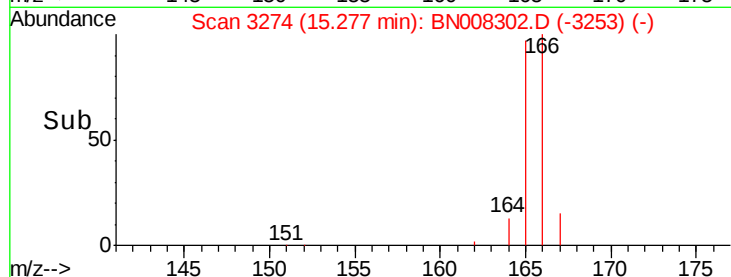
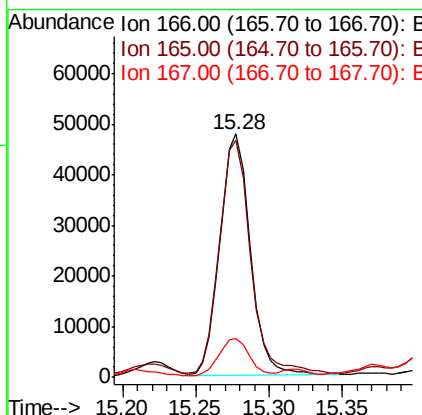
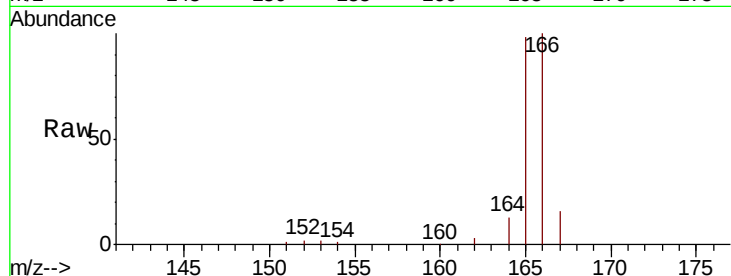
BEP79

Tot Ion:166 Resp: 68475

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 97.6  | 76.6  | 115.0 |
| 167 | 15.7  | 11.7  | 17.5  |

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#11

Pentachlorophenol

Concen: 0.304 ng/ul

RT: 16.64 min Scan# 3581

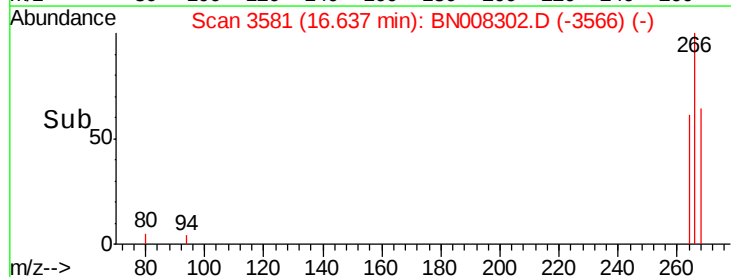
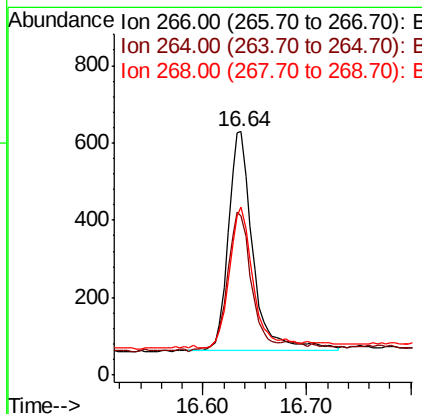
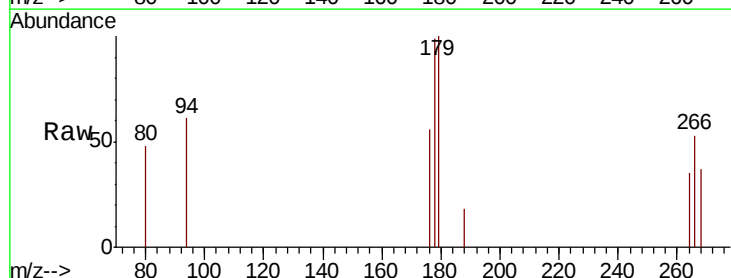
Delta R.T. -0.04 min

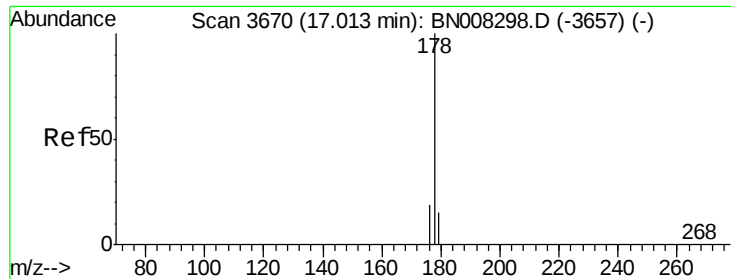
Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

Tgt Ion:266 Resp: 938

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 264 | 73.0  | 50.1  | 75.1  |
| 268 | 64.9  | 51.9  | 77.9  |





#12

Phenanthrene

Concen: 34.371 ng/ul

RT: 17.01 min Scan# 3670

Delta R.T. -0.00 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

Instrument :

BNA\_N

ClientSampleId :

BEP79

Tot Ion:178 Resp: 1284561

Ion Ratio Lower Upper

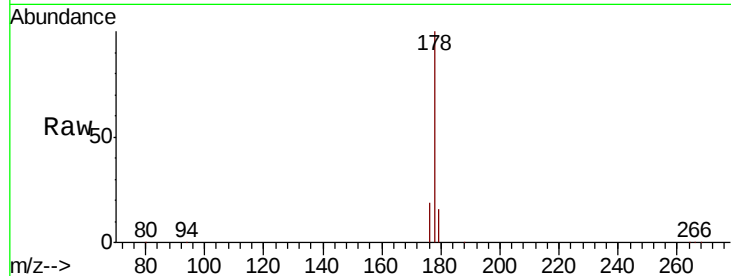
178 100

179 15.6 12.8 19.2

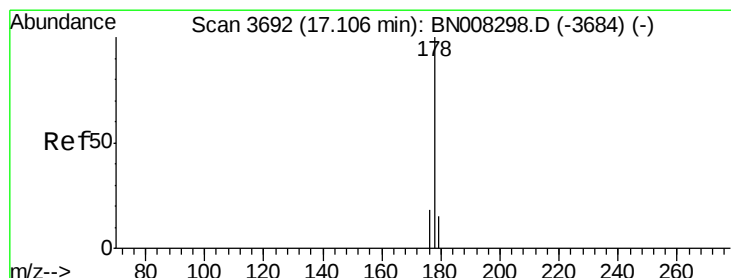
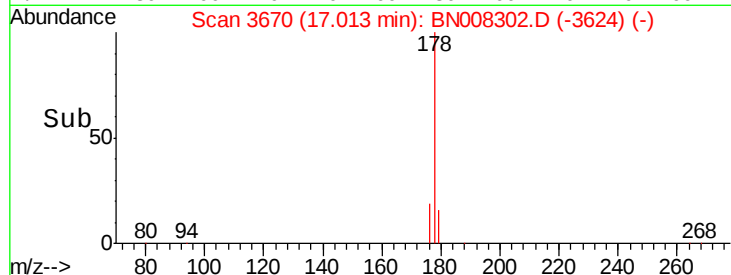
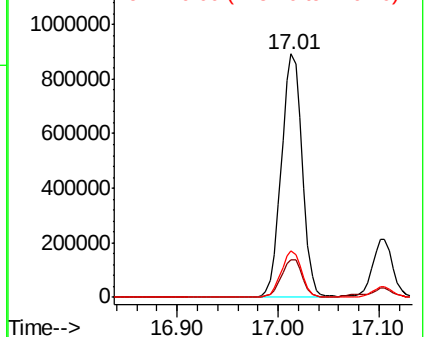
176 18.9 15.4 23.2

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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



#13

Anthracene

Concen: 8.661 ng/ul

RT: 17.10 min Scan# 3691

Delta R.T. -0.01 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

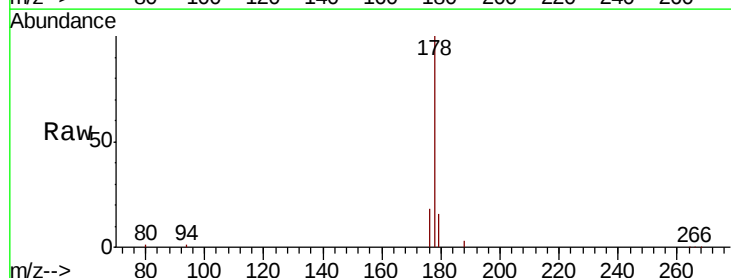
Tgt Ion:178 Resp: 284863

Ion Ratio Lower Upper

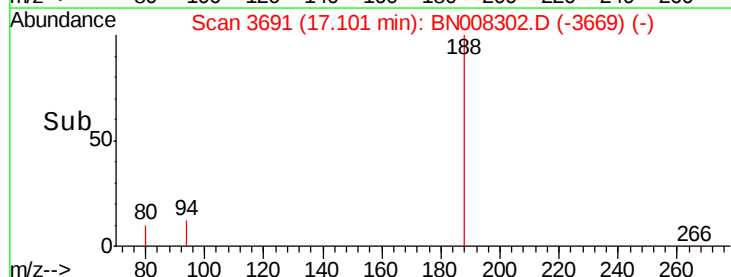
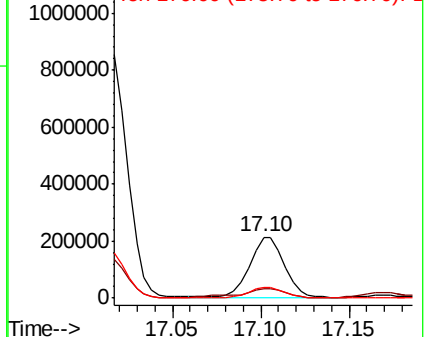
178 100

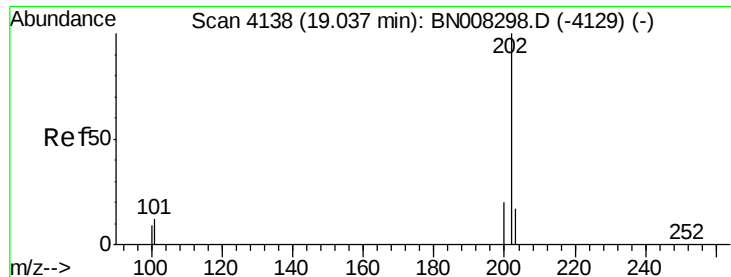
179 15.7 13.0 19.6

176 18.3 15.0 22.6



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





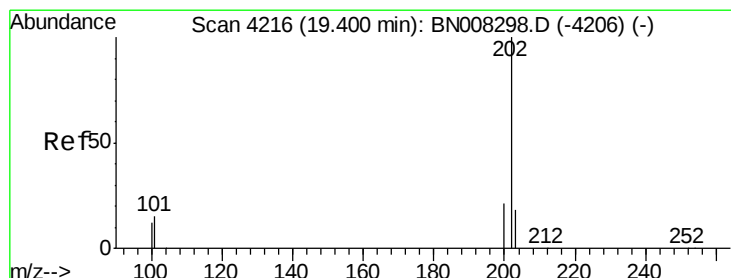
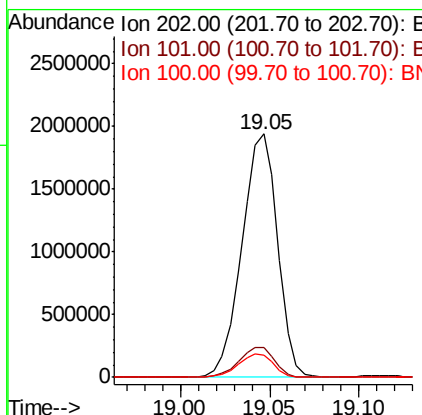
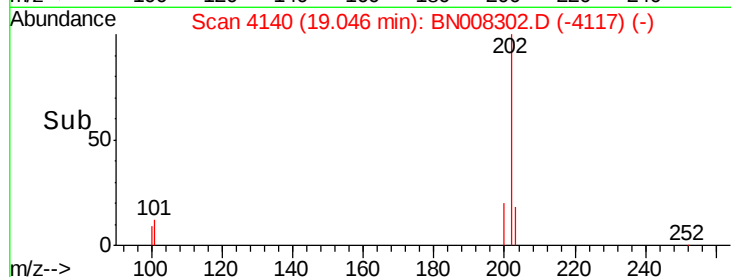
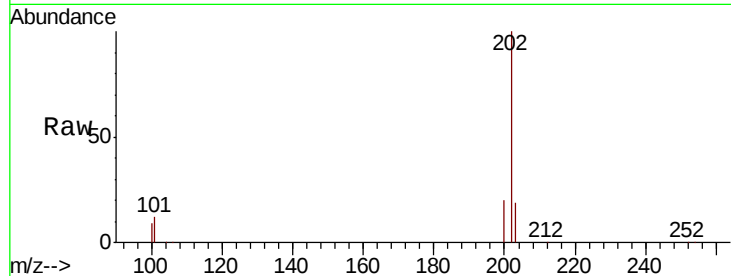
#15  
Fluoranthene  
Concen: 54.860 ng/ul  
RT: 19.05 min Scan# 4140  
Delta R.T. 0.00 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

Instrument :  
BNA\_N  
ClientSampleId :  
BEP79

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.2  | 0.0   | 31.2  |
| 100     | 9.1   | 0.0   | 28.5  |

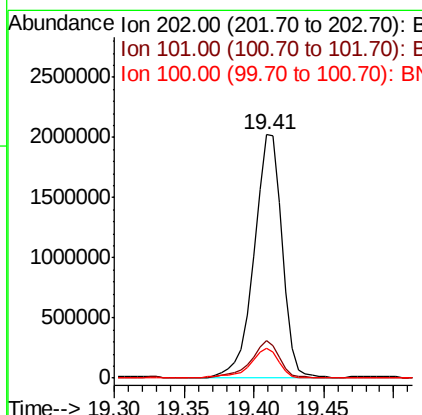
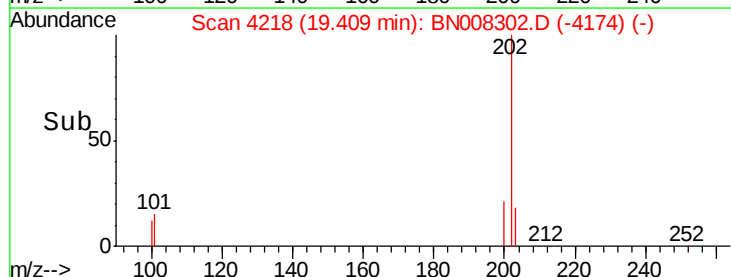
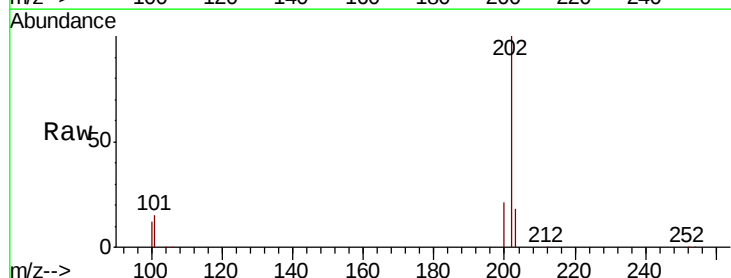
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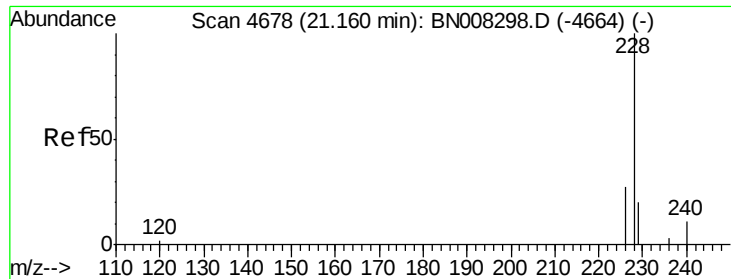
mohammad  
10/22/2019 3:28:16 PM



#17  
Pyrene  
Concen: 71.611 ng/ul  
RT: 19.41 min Scan# 4218  
Delta R.T. 0.00 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.3  | 10.9  | 16.3  |
| 100     | 12.4  | 8.7   | 13.1  |





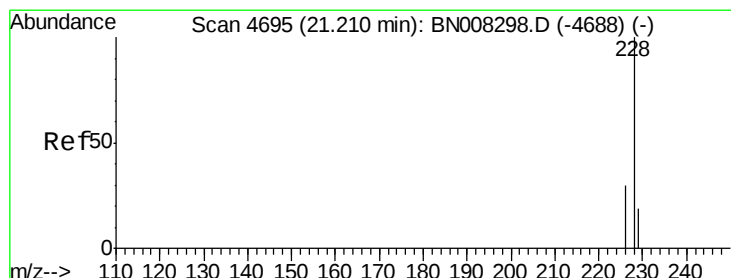
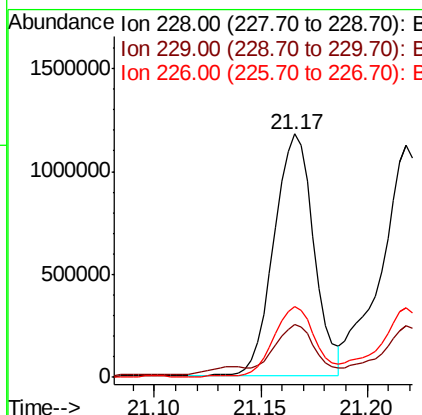
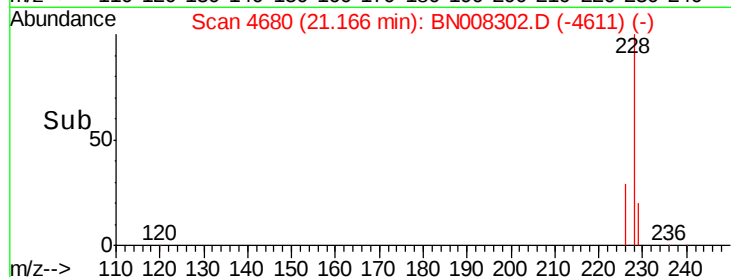
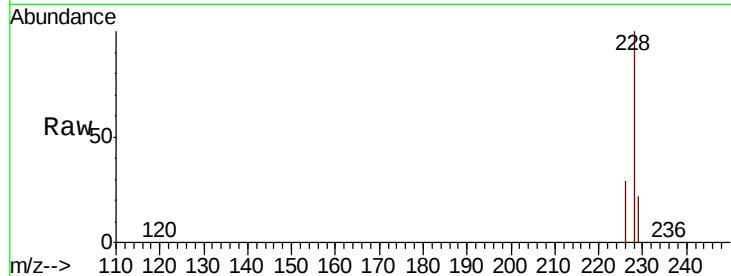
#18  
Benzo(a)anthracene  
Concen: 42.417 ng/ul  
RT: 21.17 min Scan# 4680  
Delta R.T. 0.00 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

Instrument :  
BNA\_N  
ClientSampleId :  
BEP79

Tot Ion:228 Resp: 1533967  
Ion Ratio Lower Upper  
228 100  
229 21.5 16.2 24.2  
226 29.0 21.4 32.0

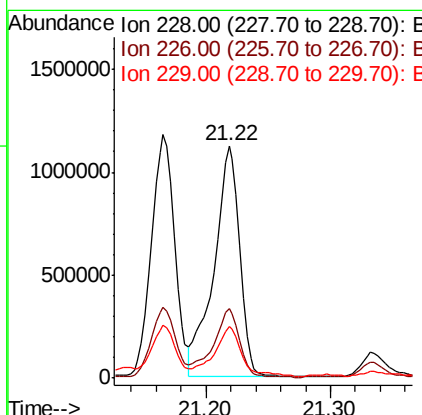
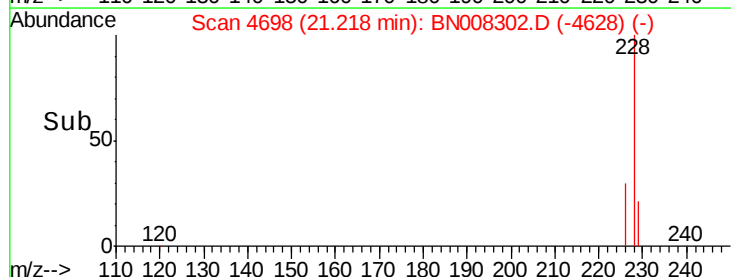
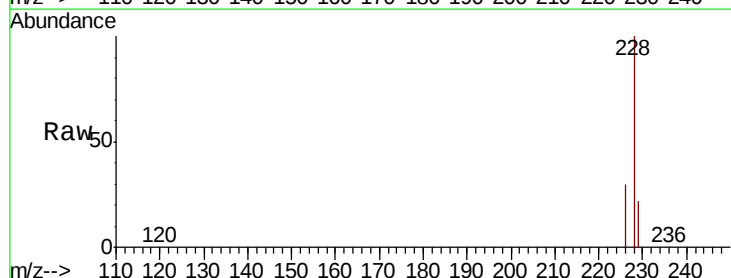
Manual Integrations  
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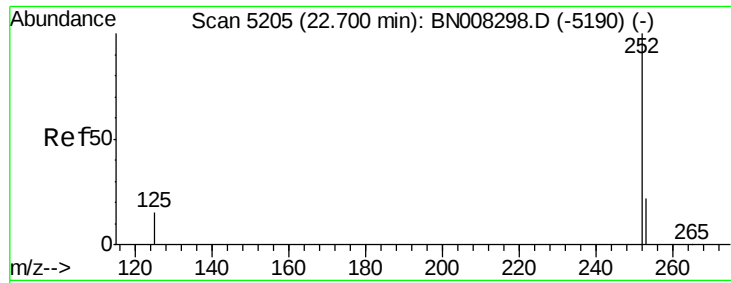
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#19  
Chrysene  
Concen: 36.266 ng/ul  
RT: 21.22 min Scan# 4698  
Delta R.T. 0.00 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

Tgt Ion:228 Resp: 1609529  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.1 36.1  
229 22.0 16.2 24.2





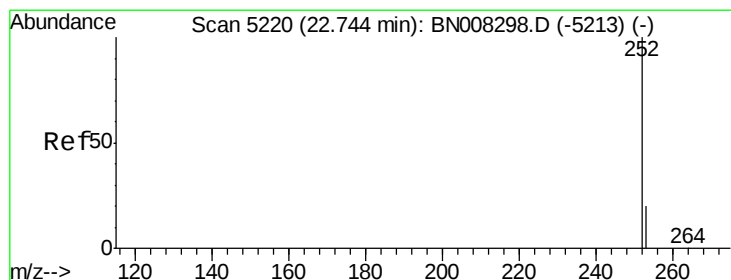
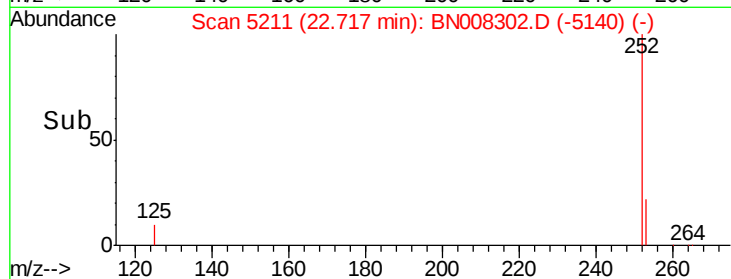
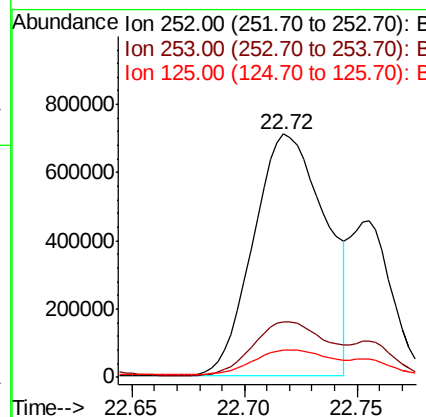
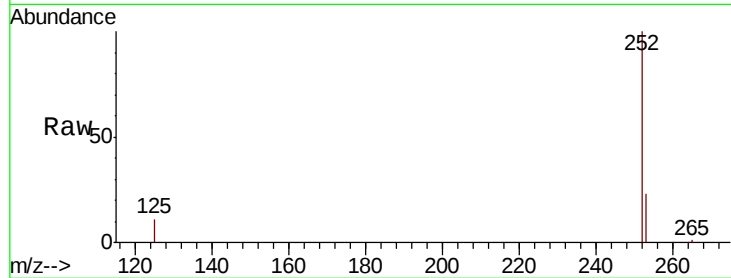
#21  
Benzo(b)fluoranthene  
Concen: 44.382 ng/ul m  
RT: 22.72 min Scan# 5211  
Delta R.T. 0.01 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

Instrument :  
BNA\_N  
ClientSampleId :  
BEP79

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 0.0   | 53.4  |
| 125     | 11.2  | 0.0   | 32.4  |

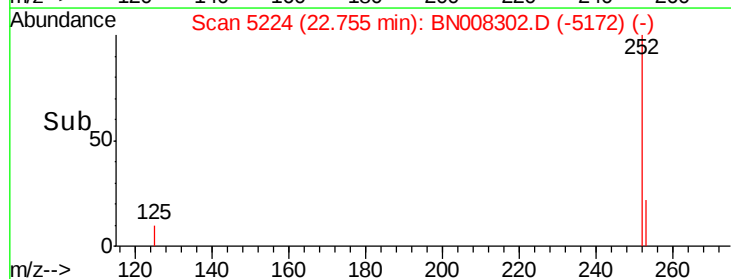
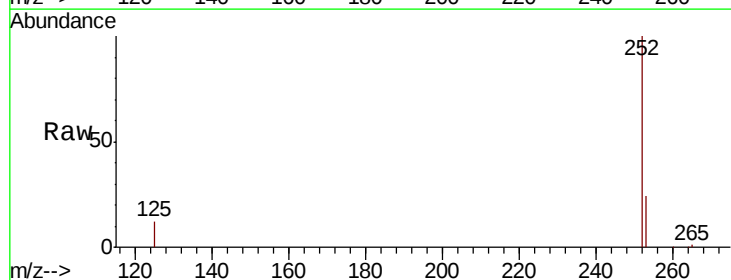
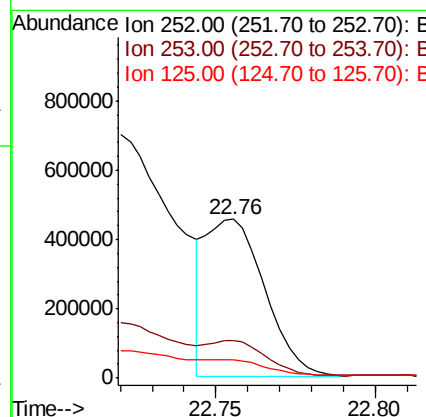
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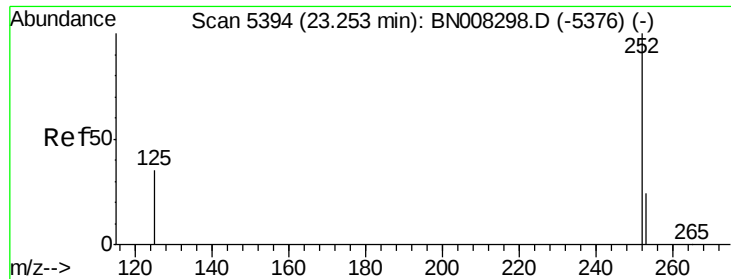
mohammad  
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#22  
Benzo(k)fluoranthene  
Concen: 14.484 ng/ul m  
RT: 22.76 min Scan# 5224  
Delta R.T. 0.00 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 21.3  | 31.9  |
| 125     | 11.6  | 12.3  | 18.5# |





#23

Benzo(a)pyrene

Concen: 32.640 ng/ul

RT: 23.27 min Scan# 5400

Delta R.T. 0.01 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

Instrument :

BNA\_N

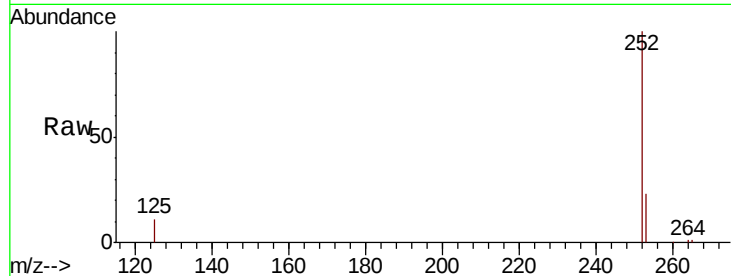
ClientSampleId :

BEP79

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 22.8  | 34.2  |
| 125     | 11.5  | 18.4  | 27.6# |

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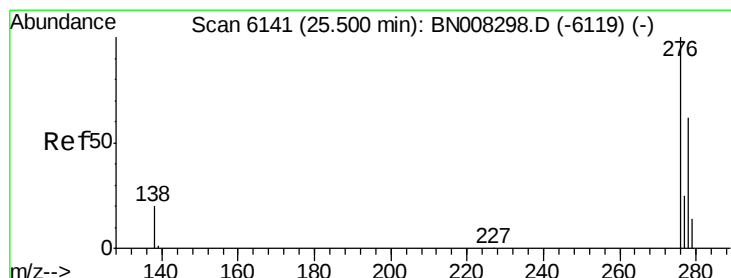
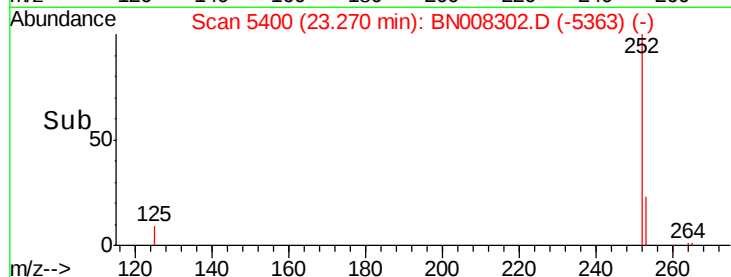
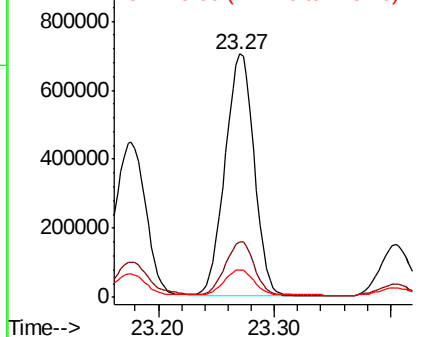


Abundance

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



#24

Indeno(1,2,3-cd)pyrene

Concen: 16.225 ng/ul

RT: 25.52 min Scan# 6147

Delta R.T. 0.01 min

Lab File: BN008302.D

Acq: 22 Oct 2019 03:12

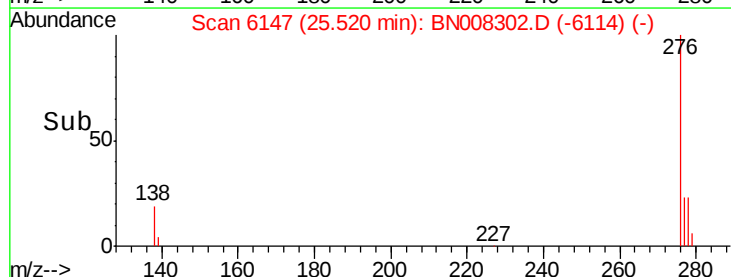
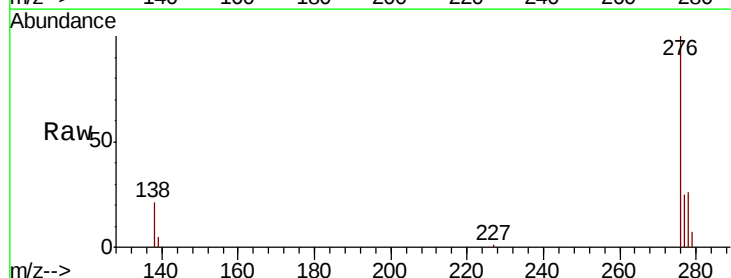
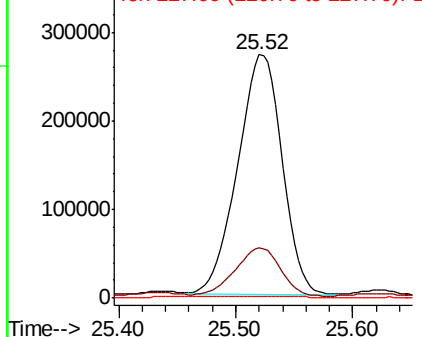
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.4  | 16.1  | 24.1  |
| 227     | 0.4   | 0.2   | 0.2#  |

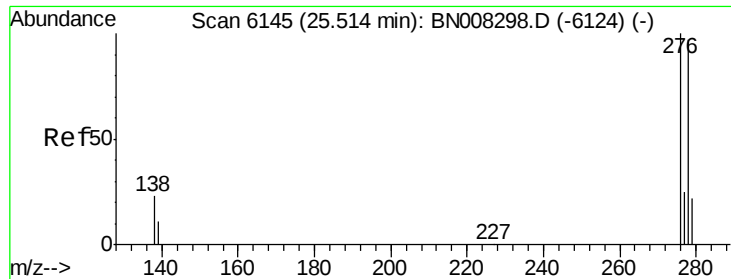
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





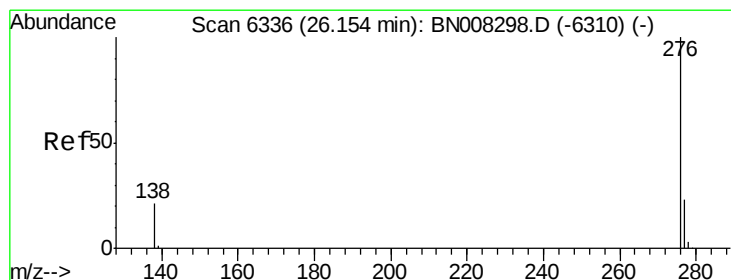
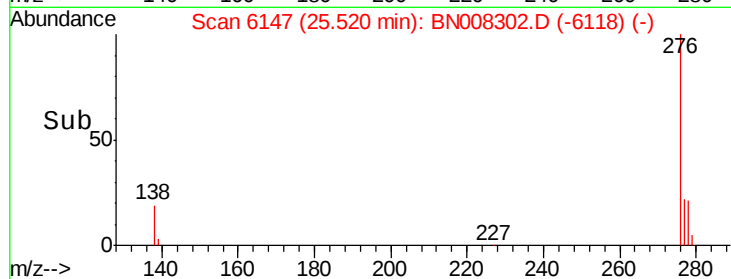
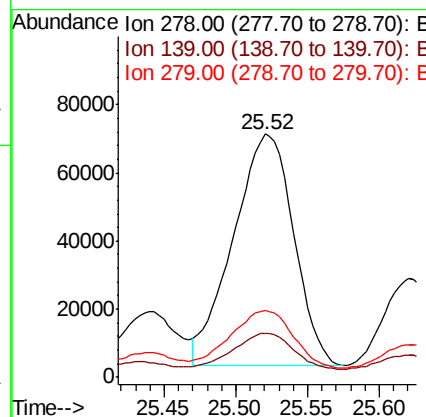
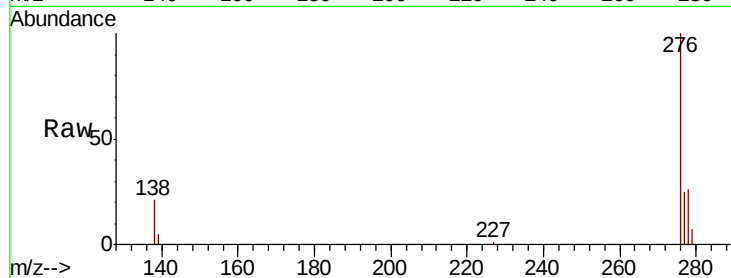
#25  
Dibenzo(a,h)anthracene  
Concen: 5.742 ng/ul  
RT: 25.52 min Scan# 6147  
Delta R.T. -0.00 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

Instrument :  
BNA\_N  
ClientSampleId :  
BEP79

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.0  | 15.0  | 22.6  |
| 279     | 27.3  | 22.4  | 33.6  |

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#26  
Benzo(g,h,i)perylene  
Concen: 13.538 ng/ul  
RT: 26.18 min Scan# 6344  
Delta R.T. 0.01 min  
Lab File: BN008302.D  
Acq: 22 Oct 2019 03:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.9  | 17.0  | 25.4  |
| 277     | 24.6  | 20.4  | 30.6  |

