

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081219\  
 Data File : BM022105.D  
 Acq On : 14 Aug 2019 13:18  
 Operator : HP/JU  
 Sample : K4183-12DL 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AF0DL

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Quant Time: Aug 14 16:21:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 14 13:53:23 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.60  | 152  | 757      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 3150     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.26 | 164  | 1596     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.02 | 188  | 3280     | 0.40   | ng/ul  | -0.01    |
| 16) Chrysene-d12            | 21.22 | 240  | 3395     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.43 | 264  | 3631     | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 199      | 0.04   | ng/ul  | 0.01     |
| 14) Fluoranthene-d10        | 19.06 | 212  | 503      | 0.05   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 7) Acenaphthylene           | 13.99 | 152  | 247      | 0.033  | ng/ul# | 52       |
| 12) Phenanthrene            | 17.06 | 178  | 512      | 0.054  | ng/ul# | 72       |
| 15) Fluoranthene            | 19.09 | 202  | 5263     | 0.412  | ng/ul  | 98       |
| 17) Pyrene                  | 19.45 | 202  | 5594     | 0.401  | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.21 | 228  | 5547     | 0.457  | ng/ul# | 86       |
| 19) Chrysene                | 21.26 | 228  | 5410     | 0.346  | ng/ul# | 89       |
| 21) Benzo(b)fluoranthene    | 22.77 | 252  | 7689m    | 0.628  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.81 | 252  | 3107m    | 0.224  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.33 | 252  | 6659     | 0.535  | ng/ul  | 93       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.64 | 276  | 3532     | 0.238  | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 25.64 | 278  | 1185     | 0.099  | ng/ul# | 21       |
| 26) Benzo(g,h,i)perylene    | 26.32 | 276  | 4308     | 0.322  | ng/ul# | 89       |

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

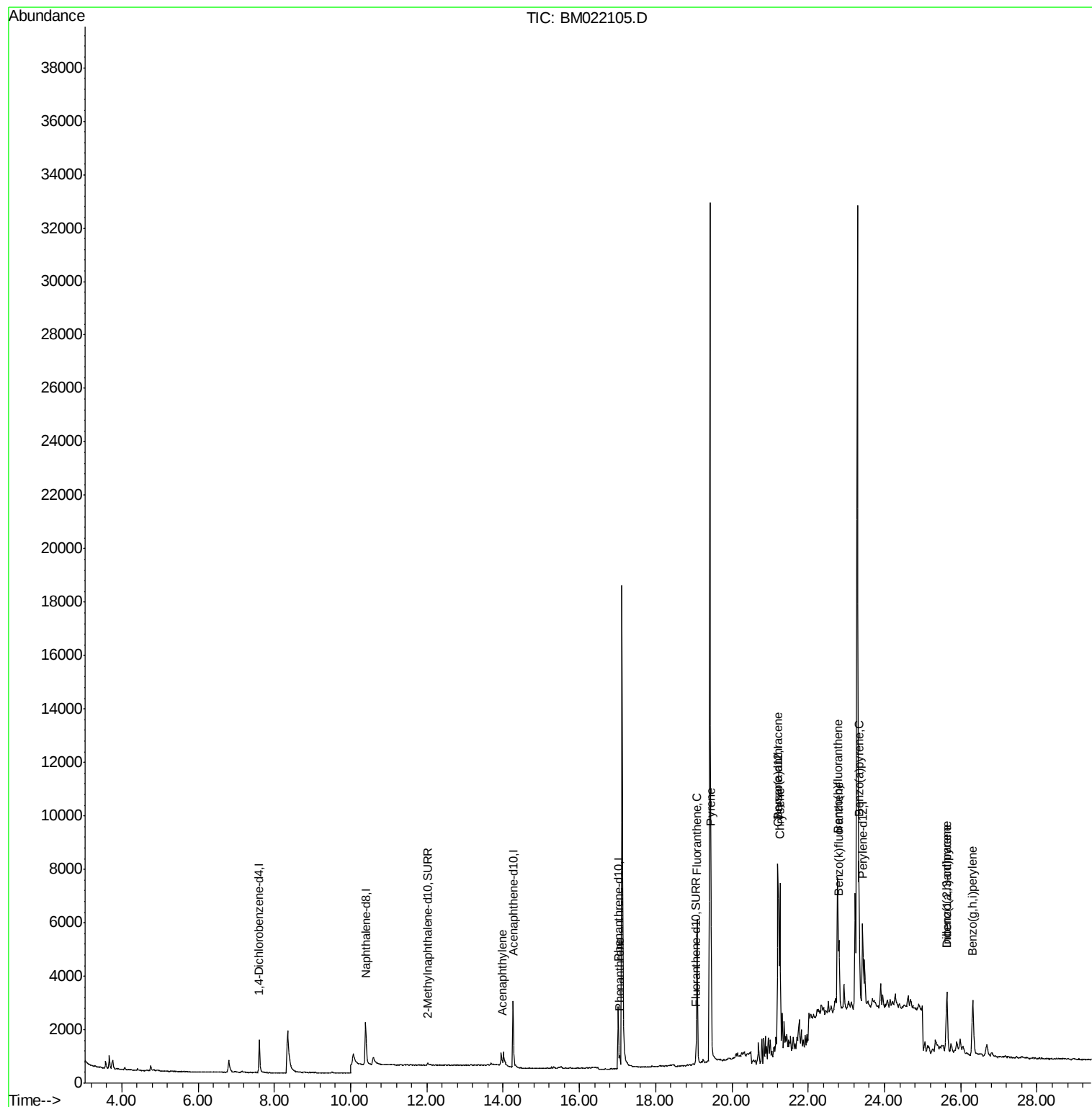
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081219\  
Data File : BM022105.D  
Acq On : 14 Aug 2019 13:18  
Operator : HP/JU  
Sample : K4183-12DL 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

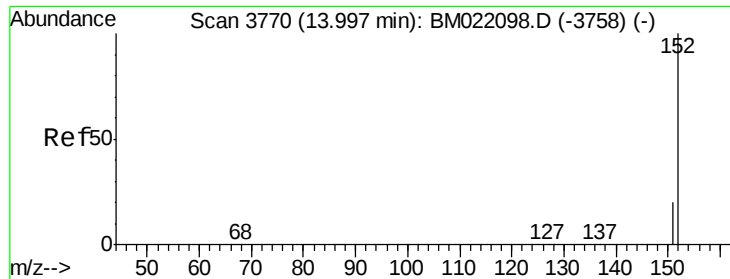
Instrument :  
BNA\_M  
ClientSampleId :  
C0AF0DL

Quant Time: Aug 14 16:21:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 14 13:53:23 2019  
Response via : Initial Calibration

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#7

Acenaphthylene

Concen: 0.033 ng/ul

RT: 13.99 min Scan# 3768

Delta R.T. -0.01 min

Lab File: BM022105.D

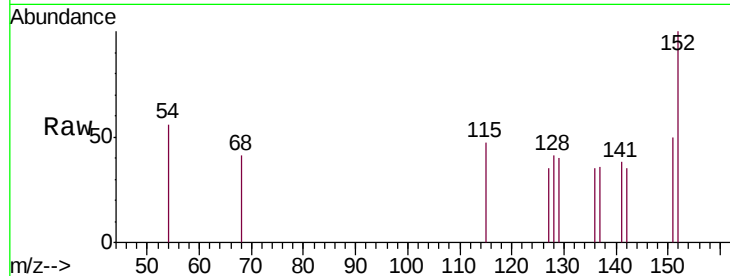
Acq: 14 Aug 2019 13:18

Instrument :

BNA\_M

ClientSampleId :

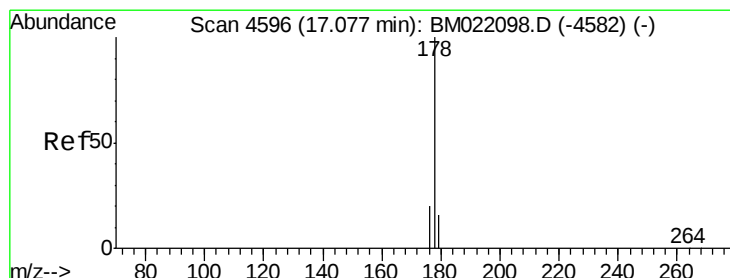
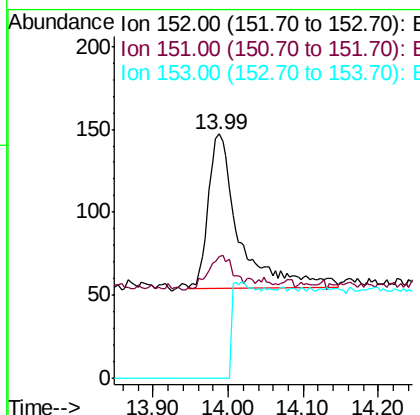
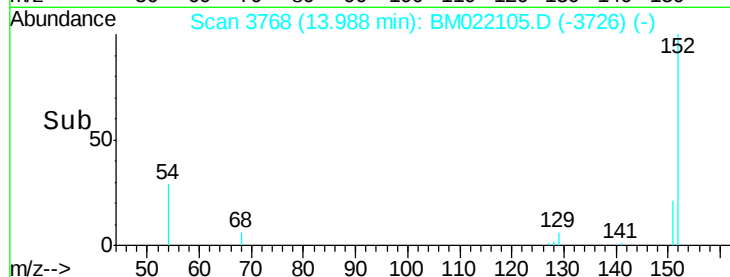
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 49.7  | 18.3  | 27.5# |
| 153     | 0.0   | 12.8  | 19.2# |

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#12

Phenanthrene

Concen: 0.054 ng/ul

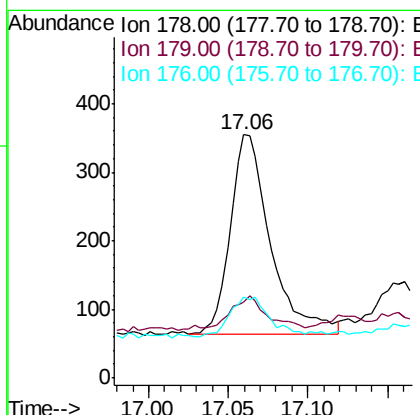
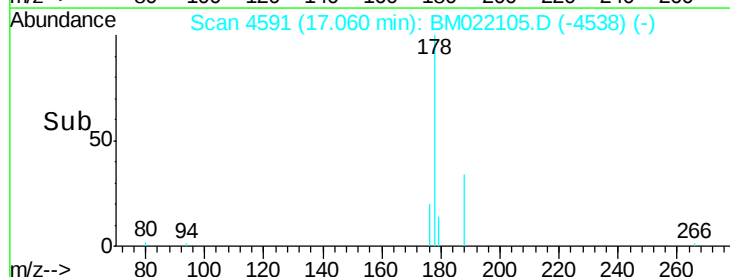
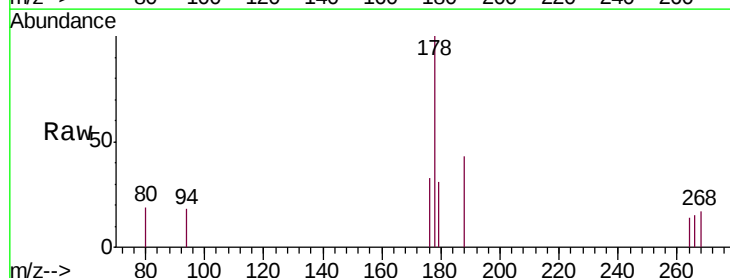
RT: 17.06 min Scan# 4591

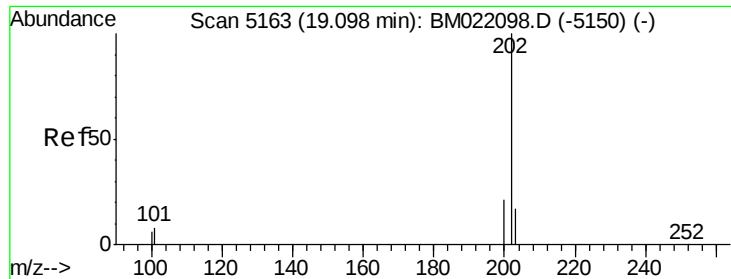
Delta R.T. -0.02 min

Lab File: BM022105.D

Acq: 14 Aug 2019 13:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 31.0  | 14.2  | 21.2# |
| 176     | 33.2  | 16.8  | 25.2# |





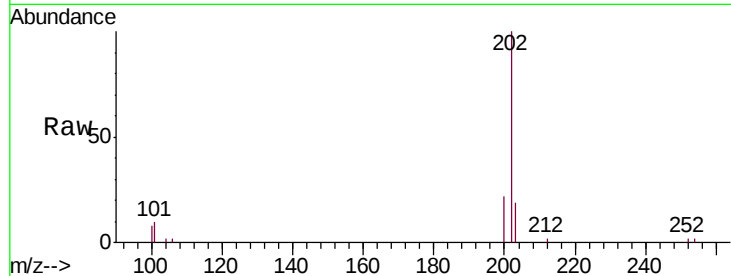
#15  
**Fluoranthene**  
 Concen: 0.412 ng/ul  
 RT: 19.09 min Scan# 5160  
 Delta R.T. -0.01 min  
 Lab File: BM022105.D  
 Acq: 14 Aug 2019 13:18

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AF0DL

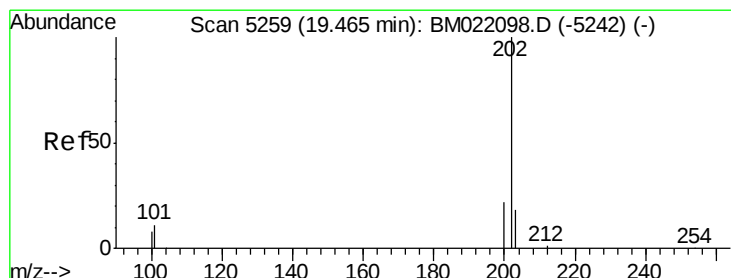
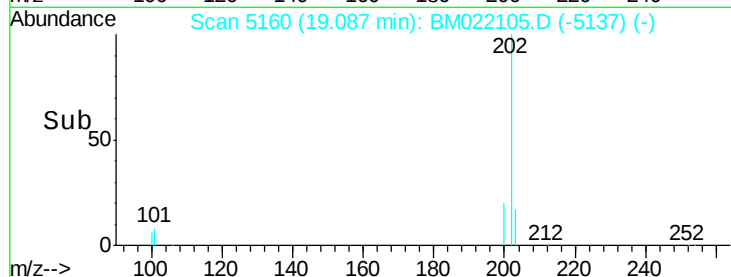
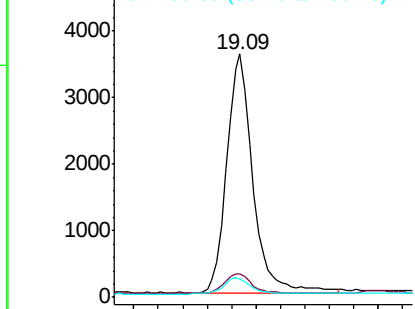
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5263 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 9.5   | 0.0   | 30.2 |
| 100       | 7.5   | 0.0   | 28.1 |

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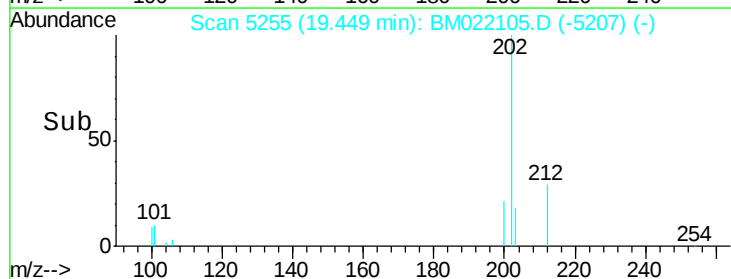
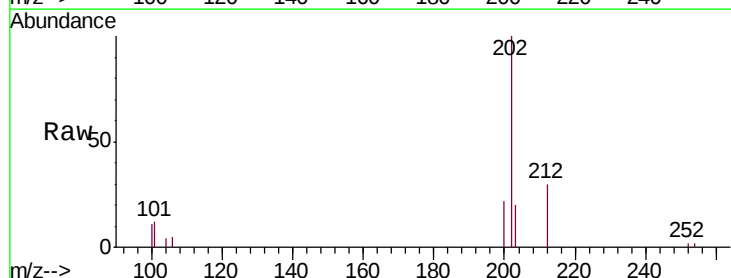
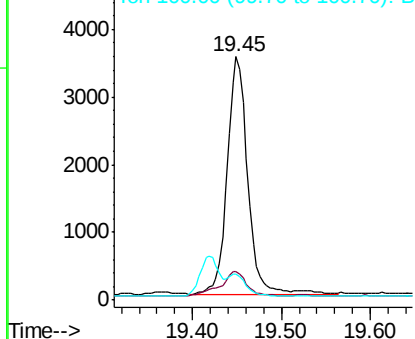
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

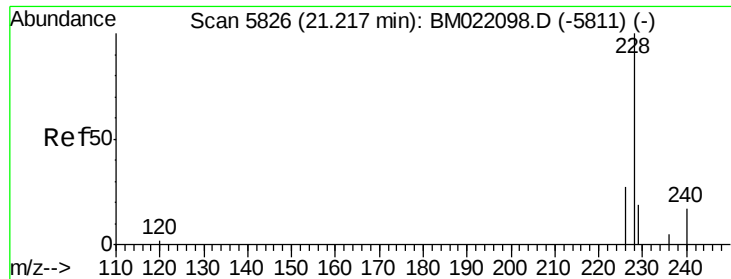


#17  
**Pyrene**  
 Concen: 0.401 ng/ul  
 RT: 19.45 min Scan# 5255  
 Delta R.T. -0.02 min  
 Lab File: BM022105.D  
 Acq: 14 Aug 2019 13:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5594 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 11.6  | 8.3   | 12.5 |
| 100       | 10.5  | 7.2   | 10.8 |

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





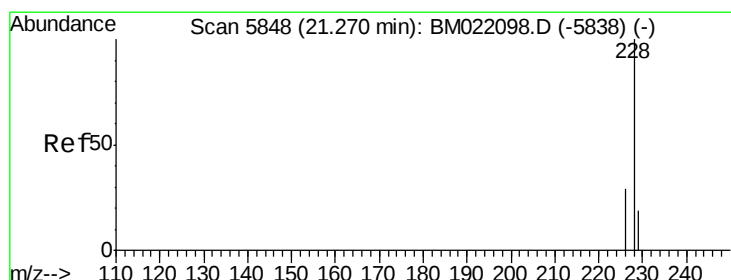
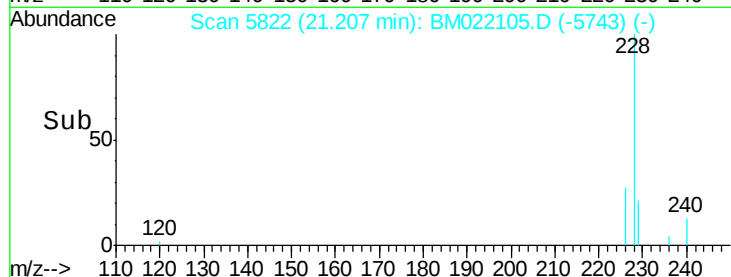
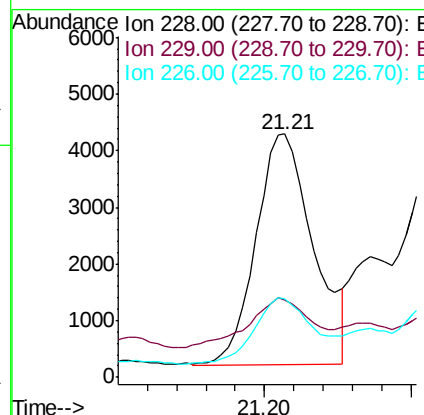
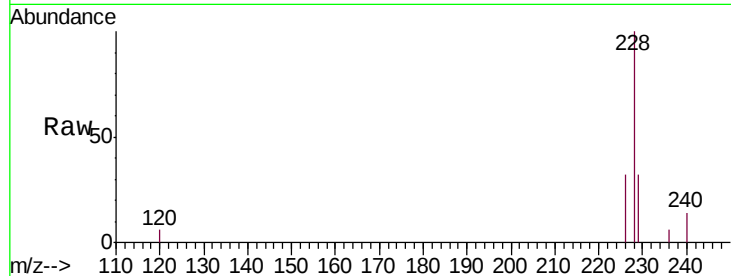
#18  
Benzo(a)anthracene  
Concen: 0.457 ng/u1  
RT: 21.21 min Scan# 5822  
Delta R.T. -0.01 min  
Lab File: BM022105.D  
Acq: 14 Aug 2019 13:18

Instrument :  
BNA\_M  
ClientSampleId :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 31.8  | 17.2  | 25.8# |
| 226     | 32.2  | 22.6  | 34.0  |

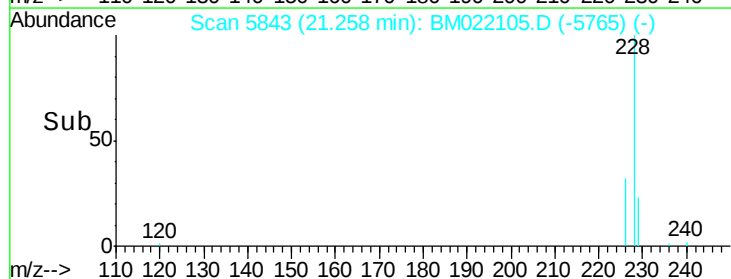
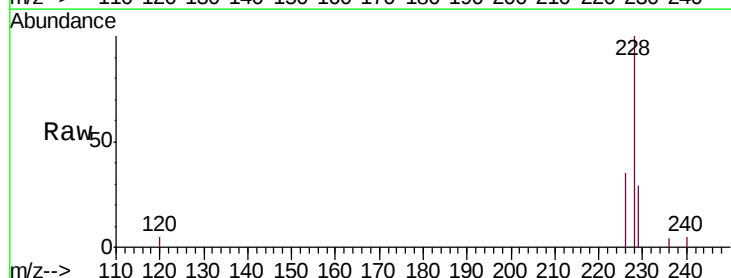
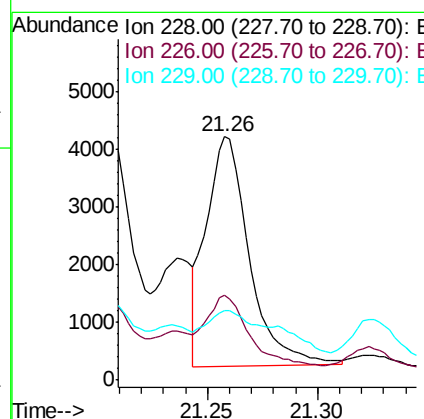
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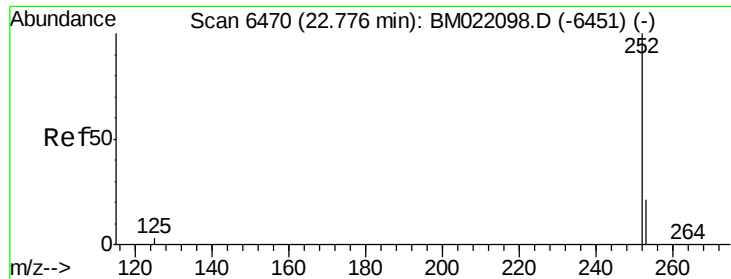
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#19  
Chrysene  
Concen: 0.346 ng/u1  
RT: 21.26 min Scan# 5843  
Delta R.T. -0.01 min  
Lab File: BM022105.D  
Acq: 14 Aug 2019 13:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.9  | 24.9  | 37.3  |
| 229     | 28.6  | 16.6  | 25.0# |





#21

Benzo(b)fluoranthene

Concen: 0.628 ng/ul m

RT: 22.77 min Scan# 6467

Delta R.T. -0.01 min

Lab File: BM022105.D

Acq: 14 Aug 2019 13:18

Instrument :

BNA\_M

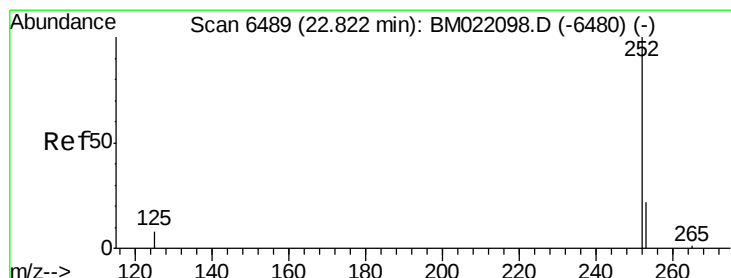
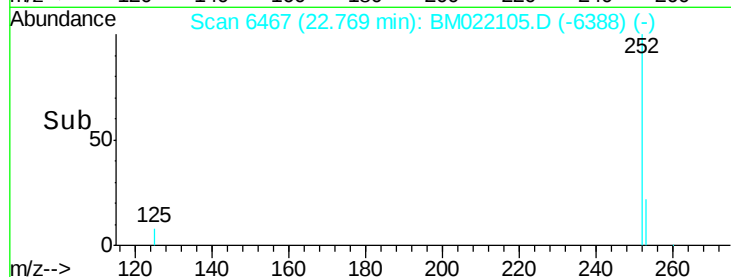
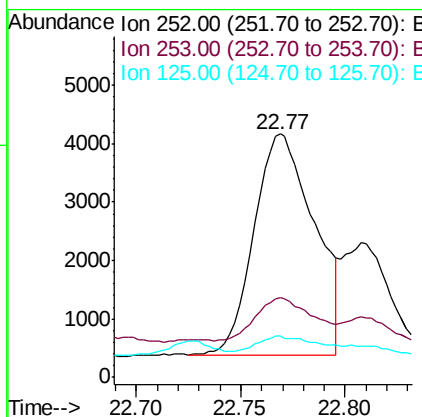
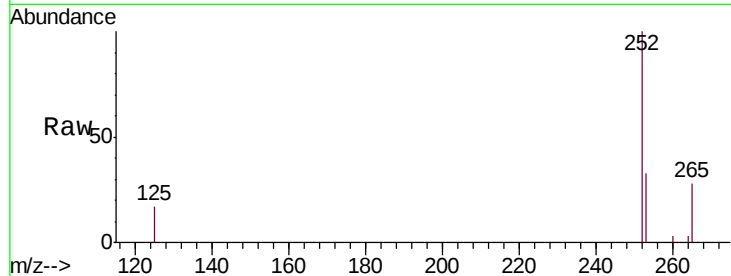
ClientSampleId :

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 7689 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 32.6  | 0.0   | 67.4 |
| 125       | 16.8  | 0.0   | 31.0 |

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#22

Benzo(k)fluoranthene

Concen: 0.224 ng/ul m

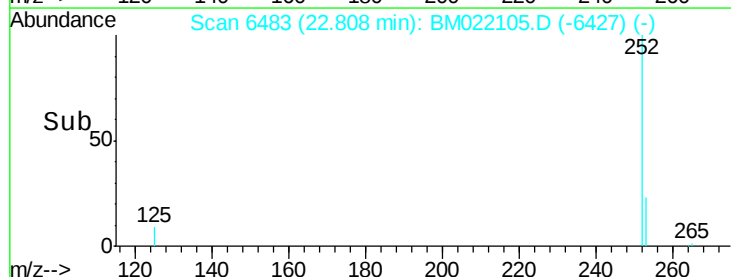
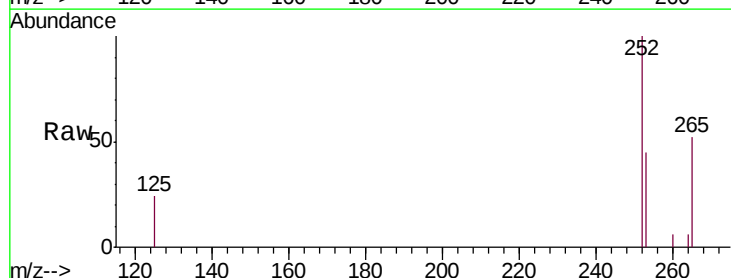
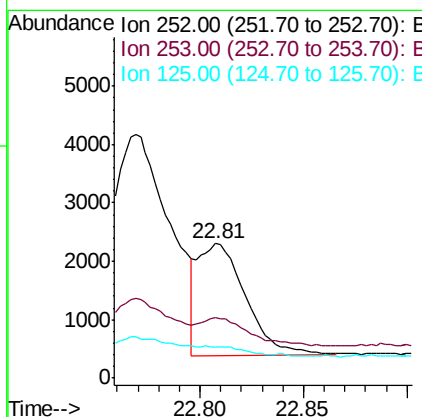
RT: 22.81 min Scan# 6483

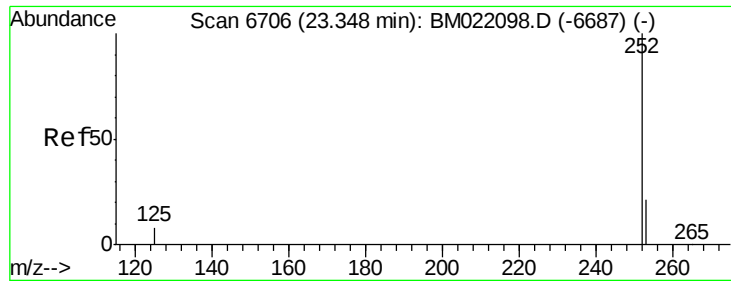
Delta R.T. -0.01 min

Lab File: BM022105.D

Acq: 14 Aug 2019 13:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 3107  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 44.8  | 27.0  | 40.4# |
| 125       | 23.6  | 12.2  | 18.2# |





#23

Benzo(a)pyrene

Concen: 0.535 ng/ul

RT: 23.33 min Scan# 6699

Delta R.T. -0.02 min

Lab File: BM022105.D

Acq: 14 Aug 2019 13:18

Instrument :

BNA\_M

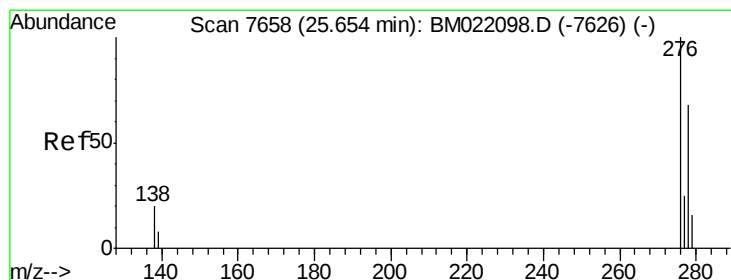
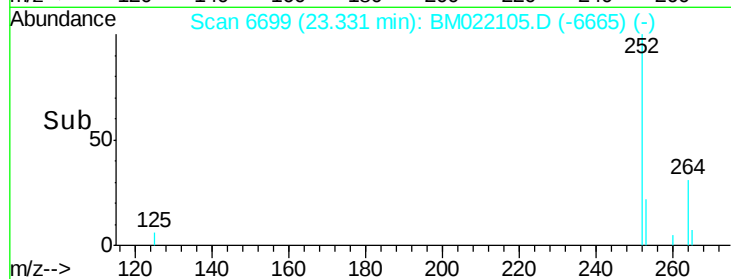
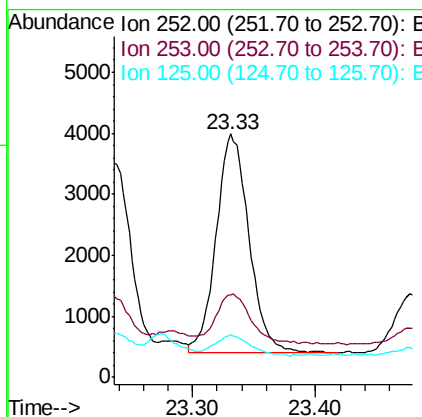
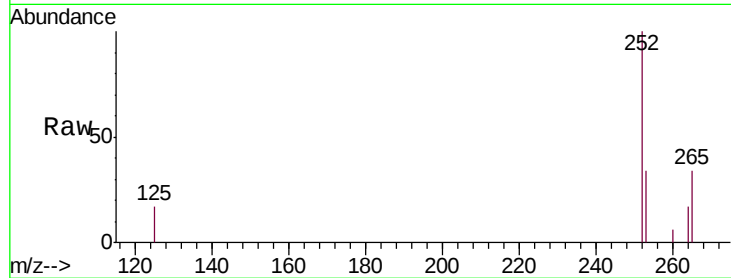
ClientSampleId :

C0AF0DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 6659 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 34.1  | 31.7  | 47.5 |
| 125       | 17.4  | 14.6  | 21.8 |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.238 ng/ul

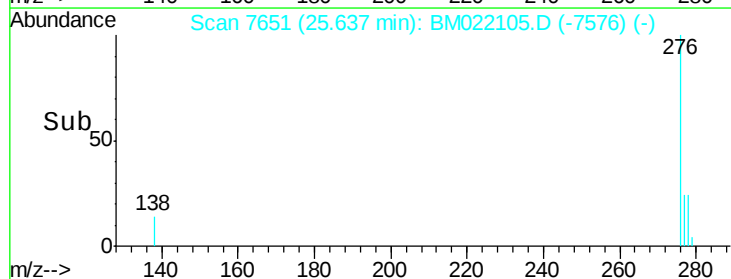
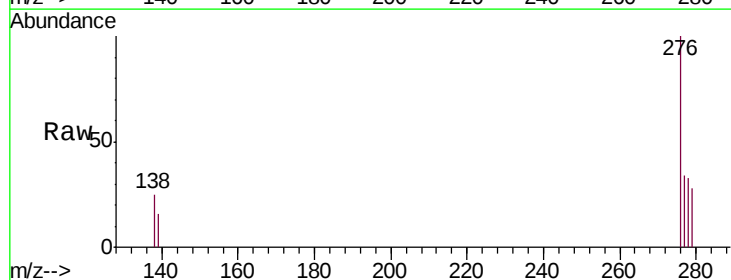
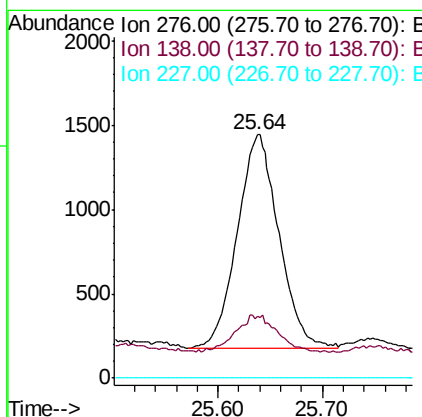
RT: 25.64 min Scan# 7651

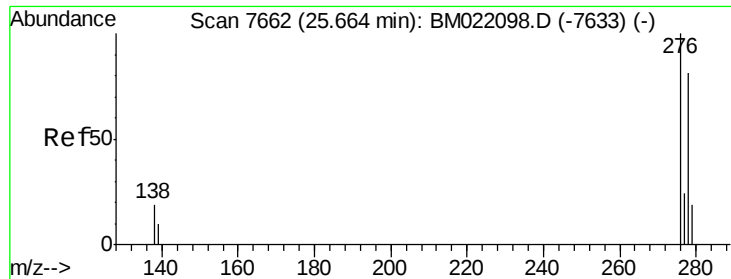
Delta R.T. -0.02 min

Lab File: BM022105.D

Acq: 14 Aug 2019 13:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 3532 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 18.2  | 15.1  | 22.7 |
| 227       | 0.0   | 0.0   | 0.0  |





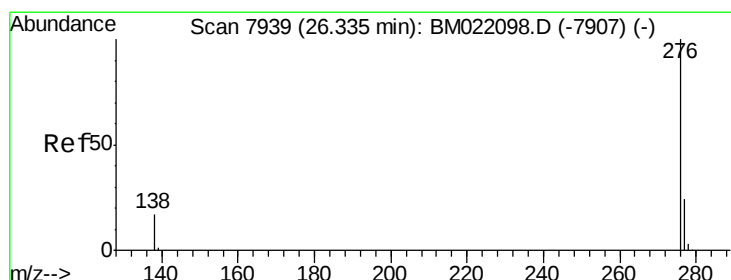
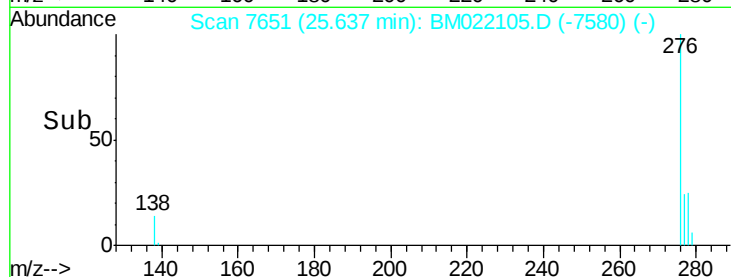
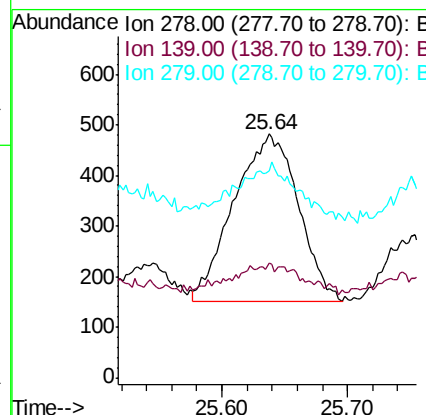
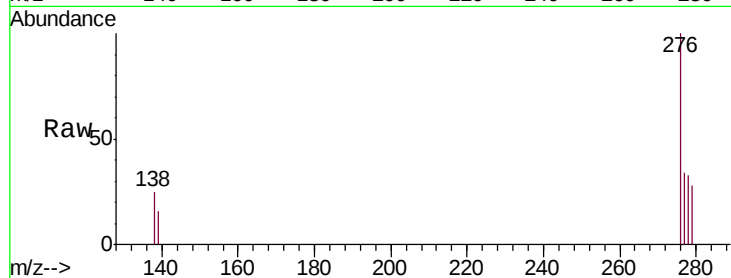
#25  
Dibenzo(a,h)anthracene  
Concen: 0.099 ng/u1  
RT: 25.64 min Scan# 7651  
Delta R.T. -0.03 min  
Lab File: BM022105.D  
Acq: 14 Aug 2019 13:18

Instrument :  
BNA\_M  
ClientSampleId :  
C0AF0DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 47.1  | 14.2  | 21.2# |
| 279     | 85.1  | 28.3  | 42.5# |

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#26  
Benzo(g,h,i)perylene  
Concen: 0.322 ng/u1  
RT: 26.32 min Scan# 7932  
Delta R.T. -0.02 min  
Lab File: BM022105.D  
Acq: 14 Aug 2019 13:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.7  | 15.5  | 23.3# |
| 277     | 32.2  | 21.4  | 32.2# |

