

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021821\  
 Data File : BM028793.D  
 Acq On : 18 Feb 2021 13:01  
 Operator : CG/JU  
 Sample : M1379-09RE  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY9RE

Manual Integrations  
 APPROVED

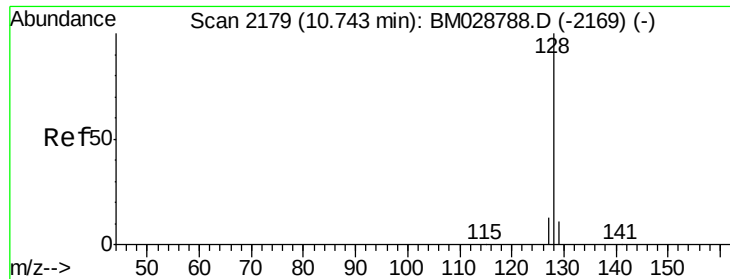
mohammad  
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Quant Time: Feb 18 16:41:42 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM020521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 18 13:03:27 2021  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.89  | 152  | 449      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 1797     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.54 | 164  | 1077     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.28 | 188  | 1967     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.46 | 240  | 27098    | 0.40   | ng/ul  | 0.04     |
| 20) Perylene-d12            | 23.70 | 264  | 2012     | 0.40   | ng/ul  | 0.05     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152  | 468      | 0.18   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.30 | 212  | 1126     | 0.22   | ng/ul  | 0.01     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.75 | 128  | 785      | 0.175  | ng/ul# | 83       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 239      | 0.080  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.27 | 152  | 2136     | 0.486  | ng/ul# | 77       |
| 8) Acenaphthene             | 14.60 | 153  | 261      | 0.075  | ng/ul# | 89       |
| 9) Fluorene                 | 15.59 | 166  | 639      | 0.165  | ng/ul# | 71       |
| 12) Phenanthrene            | 17.32 | 178  | 6212     | 1.130  | ng/ul  | 99       |
| 13) Anthracene              | 17.41 | 178  | 3119     | 0.595  | ng/ul# | 82       |
| 15) Fluoranthene            | 19.33 | 202  | 11557    | 1.847  | ng/ul  | 87       |
| 17) Pyrene                  | 19.70 | 202  | 9986     | 0.101  | ng/ul# | 95       |
| 18) Benzo(a)anthracene      | 21.44 | 228  | 2999     | 0.032  | ng/ul# | 3        |
| 19) Chrysene                | 21.49 | 228  | 7504     | 0.082  | ng/ul# | 23       |
| 21) Benzo(b)fluoranthene    | 23.03 | 252  | 8305m    | 1.206  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.06 | 252  | 2708m    | 0.394  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.60 | 252  | 3812     | 0.622  | ng/ul# | 43       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.96 | 276  | 3292     | 0.412  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.96 | 278  | 935      | 0.140  | ng/ul# | 1        |
| 26) Benzo(a,h,i)perylene    | 26.66 | 276  | 3087     | 0.464  | ng/ul# | 76       |

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





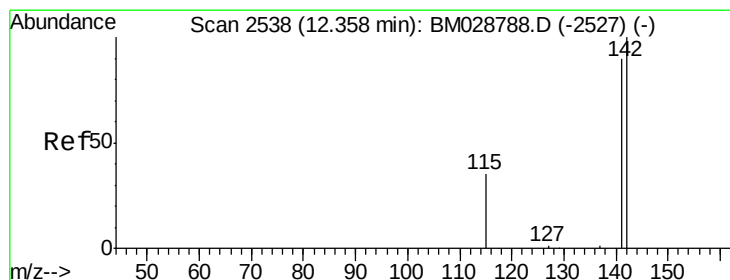
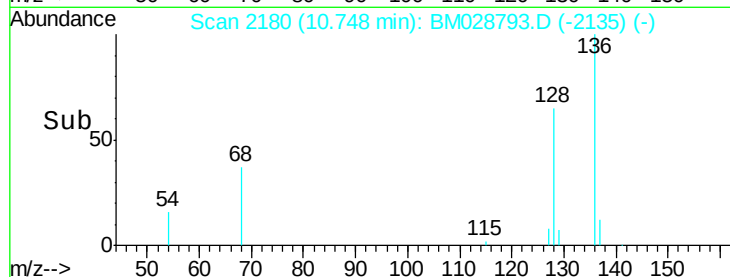
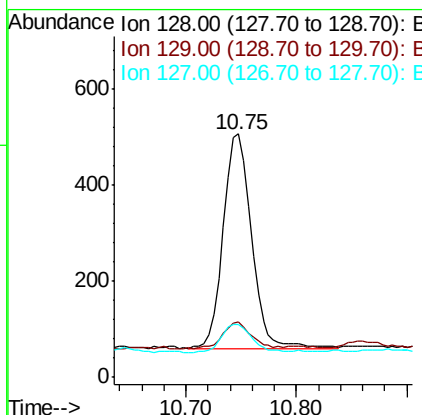
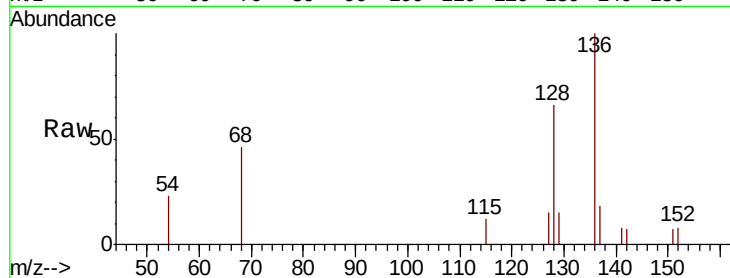
#3  
Naphthalene  
Concen: 0.175 ng/ul  
RT: 10.75 min Scan# 2180  
Delta R.T. 0.00 min  
Lab File: BM028793.D  
Acq: 18 Feb 2021 13:01

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 22.9  | 11.4  | 17.2# |
| 127     | 21.9  | 13.0  | 19.6# |

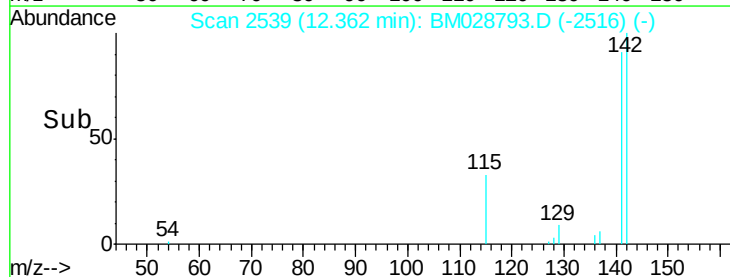
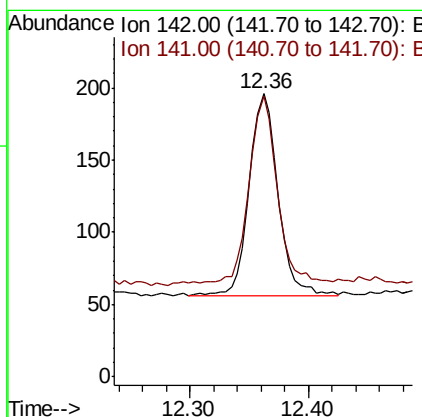
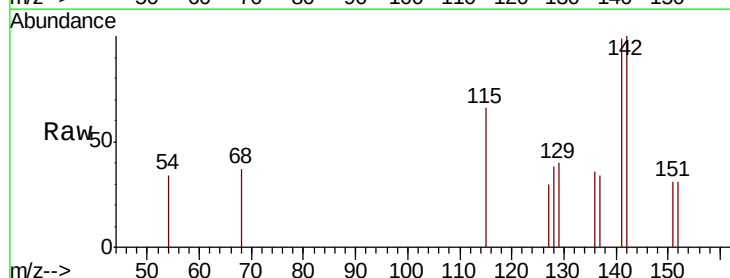
Manual Integrations  
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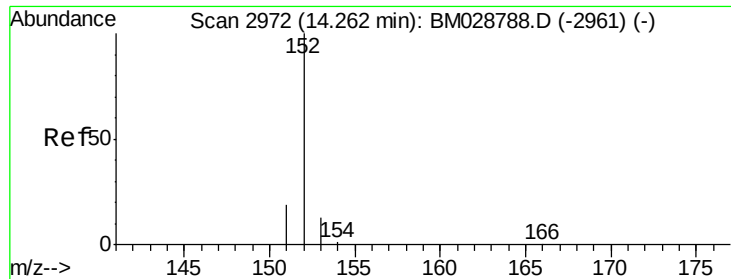
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#5  
2-Methylnaphthalene  
Concen: 0.080 ng/ul  
RT: 12.36 min Scan# 2539  
Delta R.T. 0.00 min  
Lab File: BM028793.D  
Acq: 18 Feb 2021 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.8  | 72.2  | 108.4 |





#7

Acenaphthylene

Concen: 0.486 ng/ul

RT: 14.27 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BM028793.D

Acq: 18 Feb 2021 13:01

Instrument :

BNA\_M

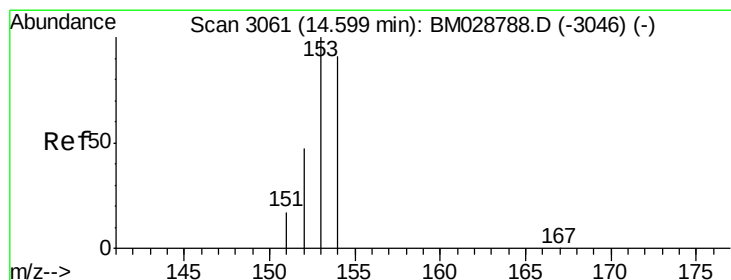
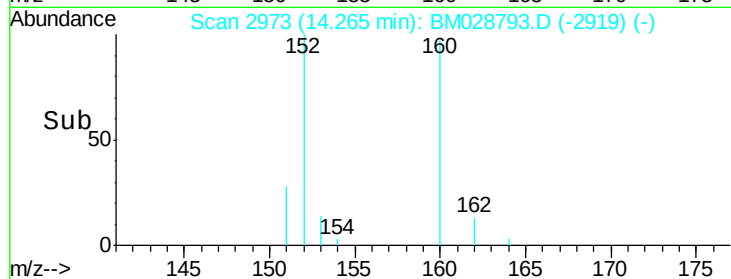
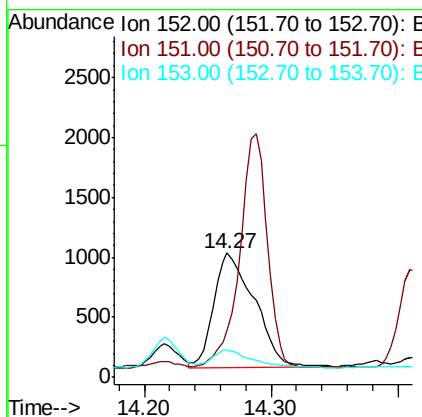
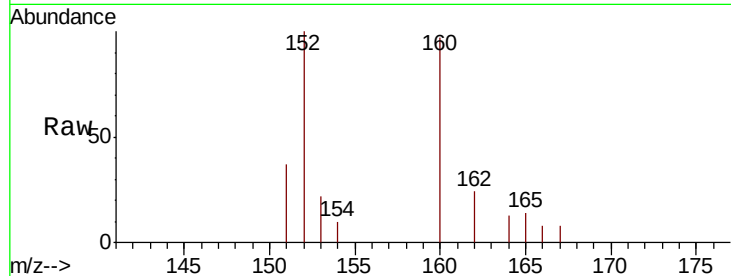
ClientSampleId :

DBGY9RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2136  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 37.1  | 18.0  | 27.0# |
| 153       | 21.9  | 13.4  | 20.0# |

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#8

Acenaphthene

Concen: 0.075 ng/ul

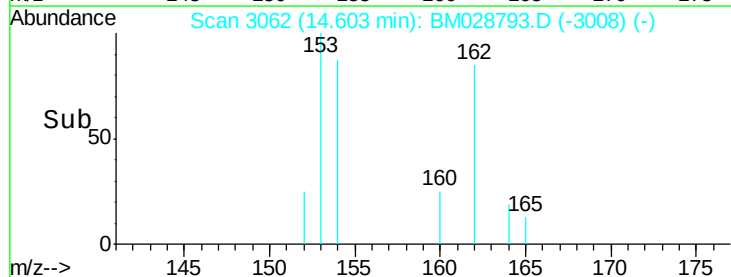
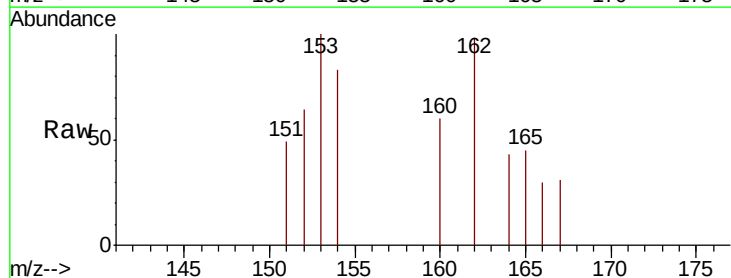
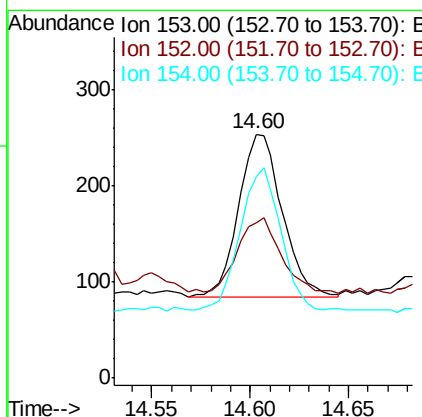
RT: 14.60 min Scan# 3062

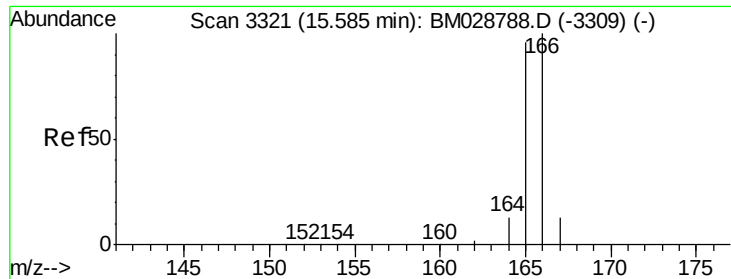
Delta R.T. 0.00 min

Lab File: BM028793.D

Acq: 18 Feb 2021 13:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 261   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 63.6  | 39.6  | 59.4# |
| 154       | 82.6  | 70.3  | 105.5 |





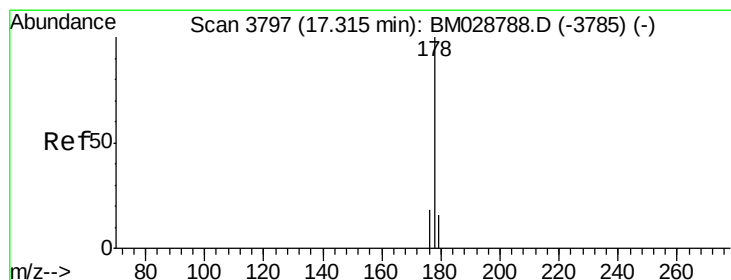
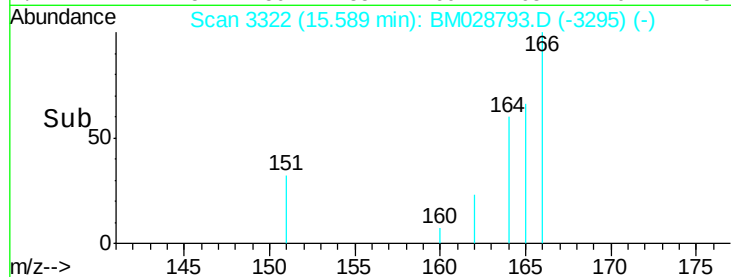
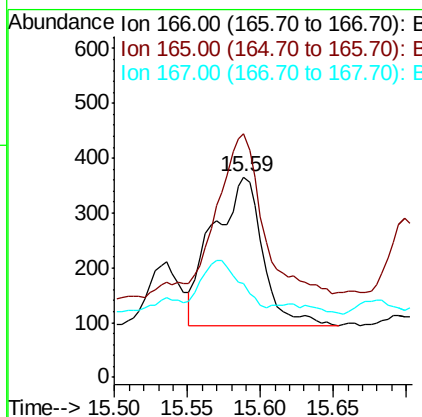
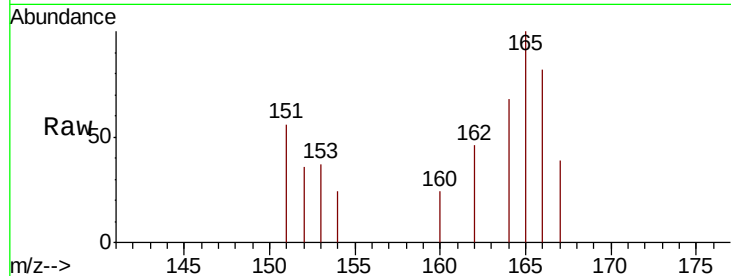
#9  
**Fluorene**  
 Concen: 0.165 ng/ul  
 RT: 15.59 min Scan# 3322  
 Delta R.T. 0.00 min  
 Lab File: BM028793.D  
 Acq: 18 Feb 2021 13:01

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY9RE

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 166     | 100   |       |        |
| 165     | 121.3 | 79.6  | 119.4# |
| 167     | 47.0  | 13.9  | 20.9#  |

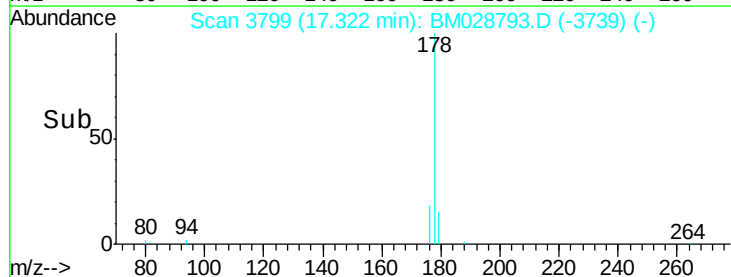
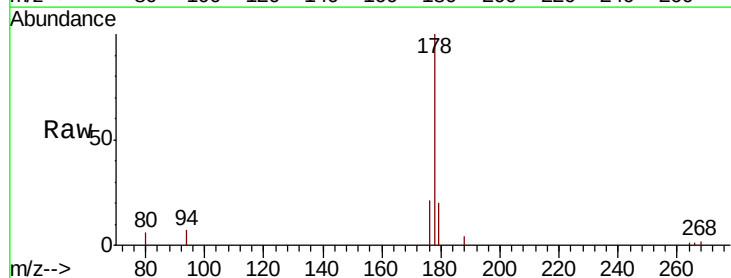
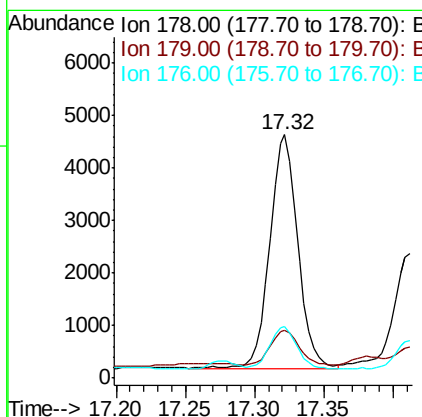
Manual Integrations  
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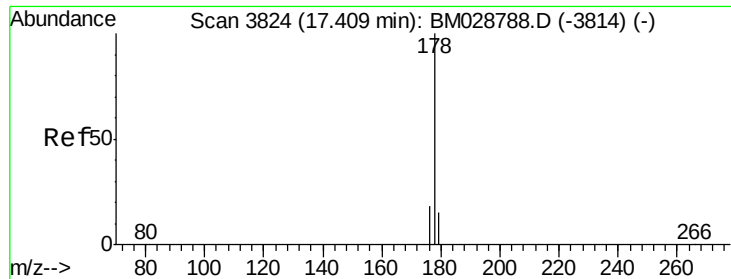
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#12  
**Phenanthrene**  
 Concen: 1.130 ng/ul  
 RT: 17.32 min Scan# 3799  
 Delta R.T. 0.01 min  
 Lab File: BM028793.D  
 Acq: 18 Feb 2021 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 19.6  | 14.7  | 22.1  |
| 176     | 21.0  | 16.7  | 25.1  |





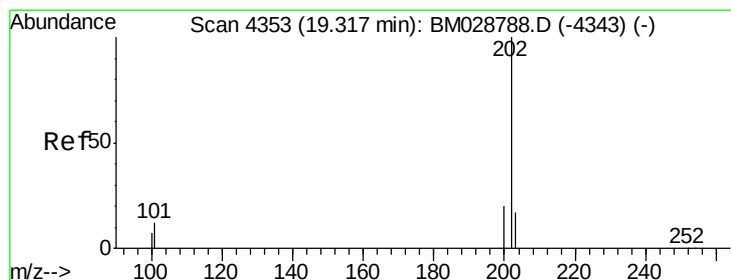
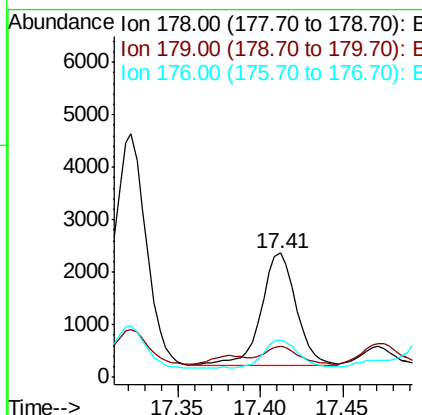
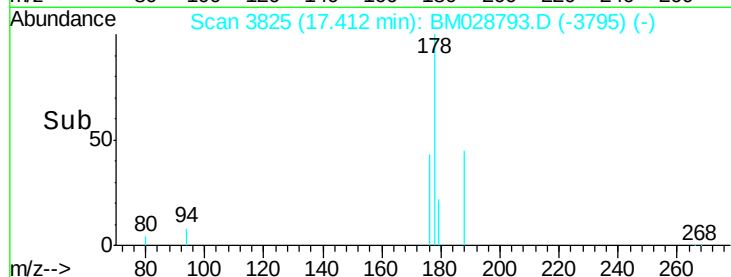
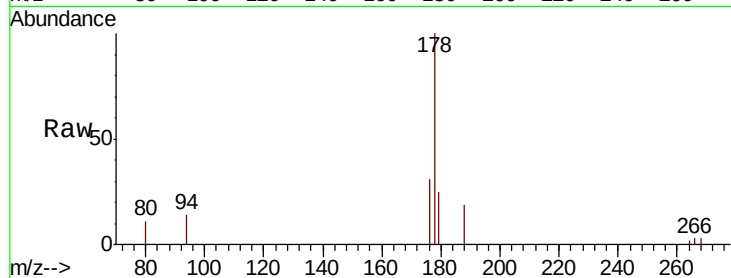
#13  
 Anthracene  
 Concen: 0.595 ng/ul  
 RT: 17.41 min Scan# 3825  
 Delta R.T. 0.00 min  
 Lab File: BM028793.D  
 Acq: 18 Feb 2021 13:01

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 25.1  | 15.0  | 22.4# |
| 176     | 30.6  | 16.6  | 24.8# |

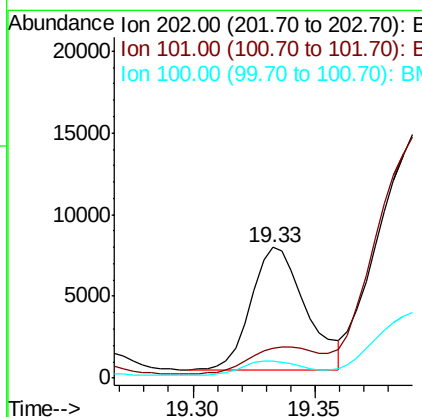
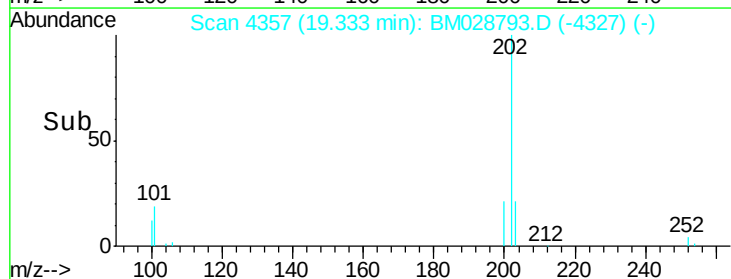
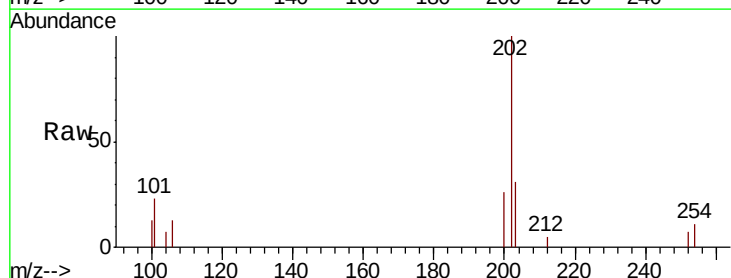
Manual Integrations  
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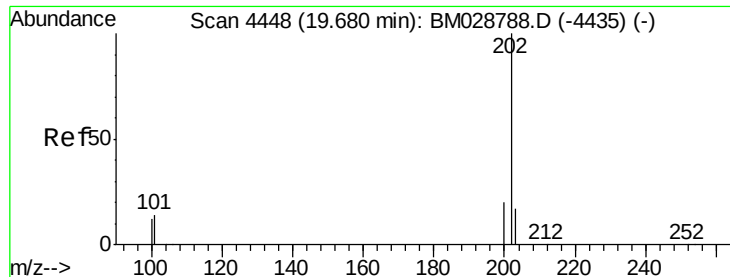
mohammad  
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#15  
 Fluoranthene  
 Concen: 1.847 ng/ul  
 RT: 19.33 min Scan# 4357  
 Delta R.T. 0.02 min  
 Lab File: BM028793.D  
 Acq: 18 Feb 2021 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 22.8  | 0.0   | 34.5  |
| 100     | 13.2  | 0.0   | 31.7  |





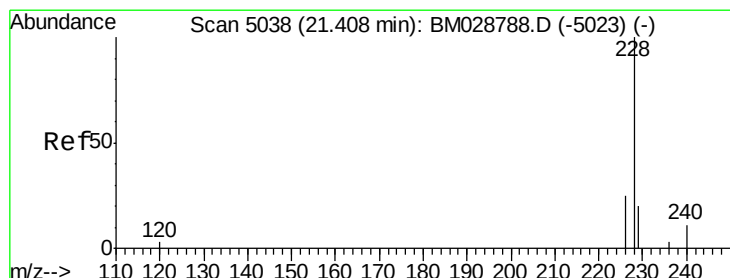
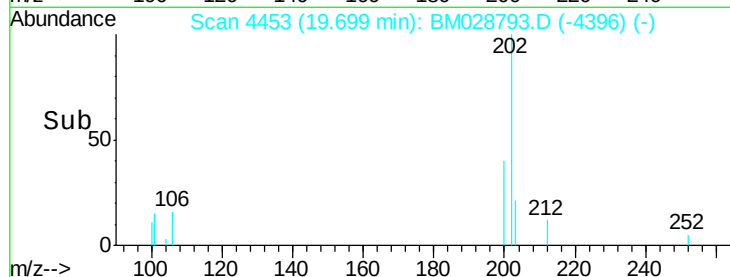
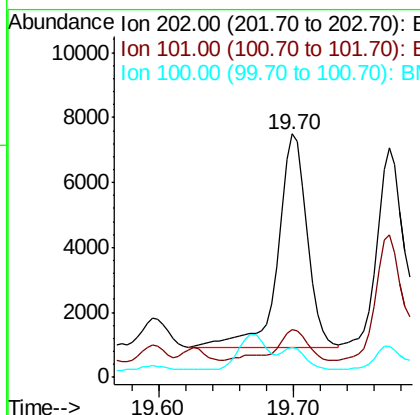
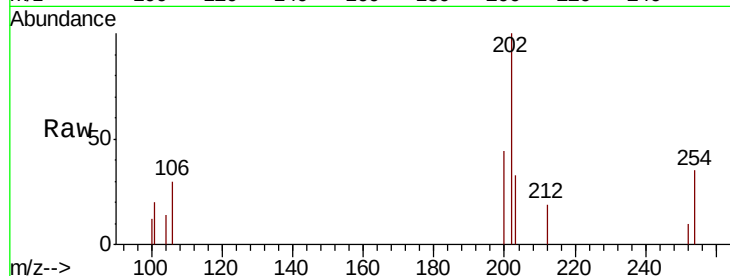
#17  
Pvrene  
Concen: 0.101 ng/ul  
RT: 19.70 min Scan# 4453  
Delta R.T. 0.02 min  
Lab File: BM028793.D  
Acq: 18 Feb 2021 13:01

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 19.5  | 12.7  | 19.1# |
| 100     | 12.4  | 10.2  | 15.4  |

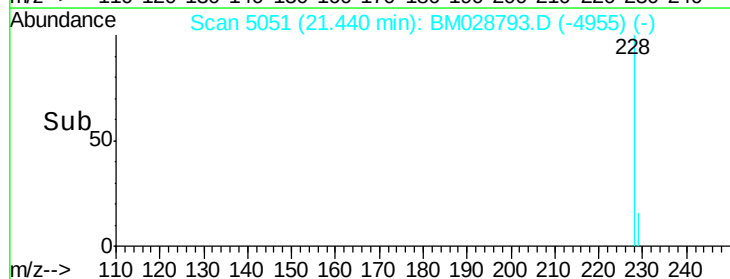
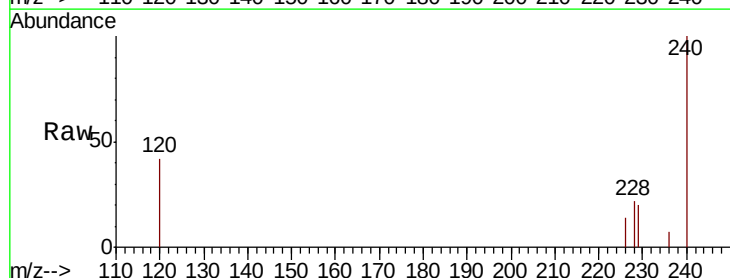
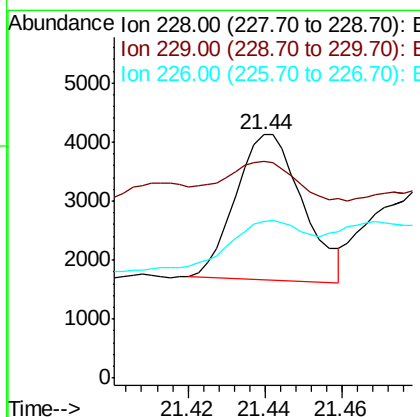
Manual Integrations  
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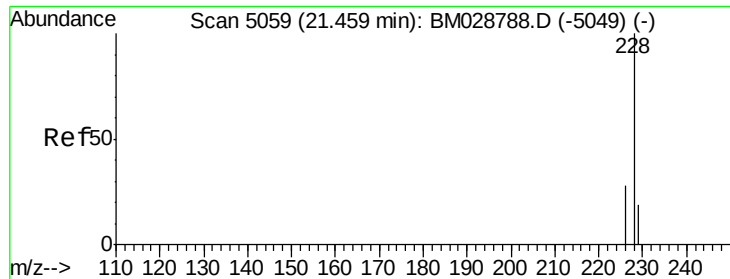
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2/19/2021 1:19:37 PM



#18  
Benzo(a)anthracene  
Concen: 0.032 ng/ul  
RT: 21.44 min Scan# 5051  
Delta R.T. 0.03 min  
Lab File: BM028793.D  
Acq: 18 Feb 2021 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 88.9  | 18.9  | 28.3# |
| 226     | 64.0  | 22.6  | 34.0# |





#19

Chrysene

Concen: 0.082 ng/ul

RT: 21.49 min Scan# 5072

Delta R.T. 0.03 min

Lab File: BM028793.D

Acq: 18 Feb 2021 13:01

Instrument :

BNA\_M

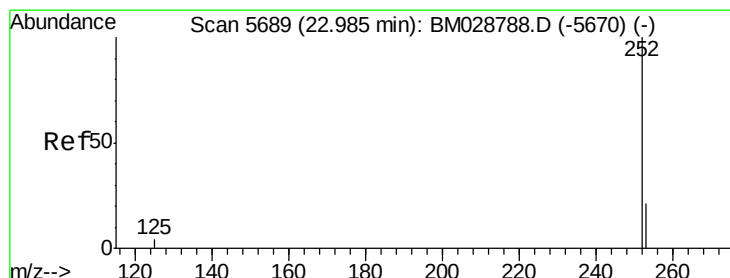
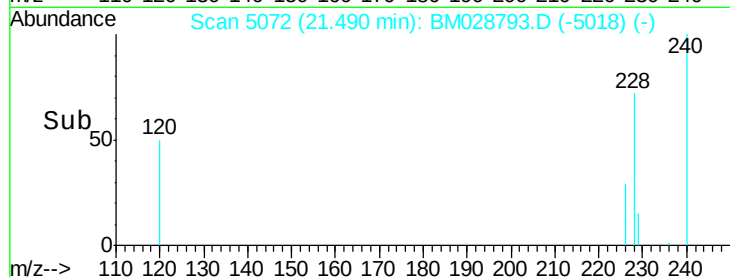
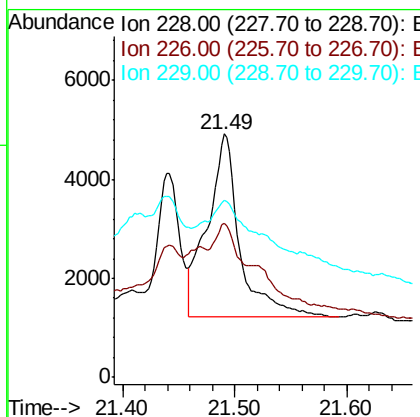
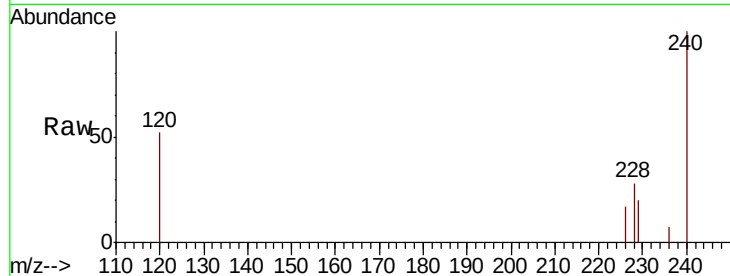
ClientSampleId :

DBGY9RE

|             |       |            |
|-------------|-------|------------|
| Tot Ion:228 | Resp: | 7504       |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 226         | 63.5  | 24.6 37.0# |
| 229         | 72.5  | 18.8 28.2# |

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#21

Benzo(b)fluoranthene

Concen: 1.206 ng/ul m

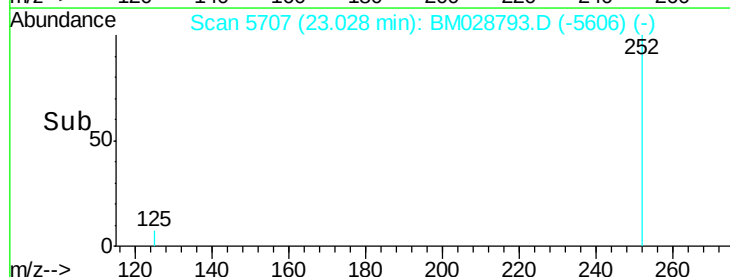
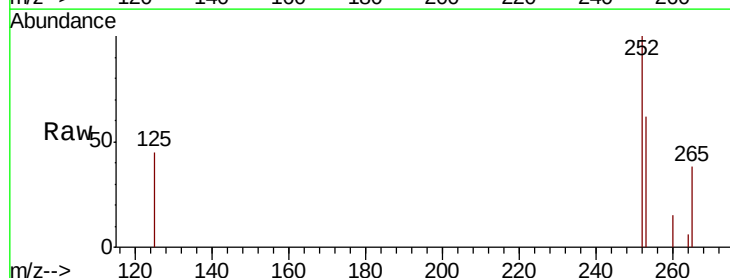
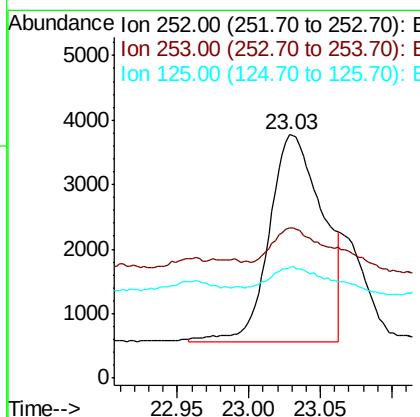
RT: 23.03 min Scan# 5707

Delta R.T. 0.04 min

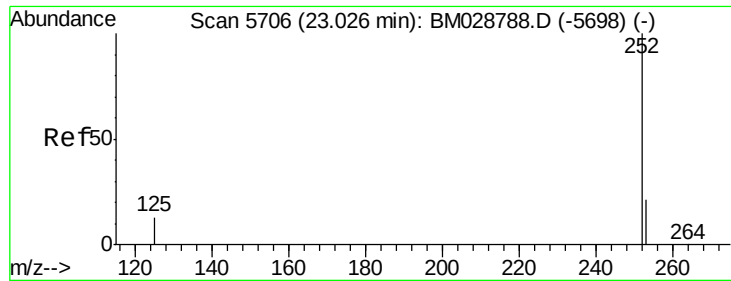
Lab File: BM028793.D

Acq: 18 Feb 2021 13:01

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:252 | Resp: | 8305     |
| Ion Ratio   | Lower | Upper    |
| 252         | 100   |          |
| 253         | 61.8  | 0.0 67.0 |
| 125         | 45.2  | 0.0 57.4 |







#22

Benzo(k)fluoranthene

Concen: 0.394 ng/ul

RT: 23.06 min Scan# 5719

Delta R.T. 0.03 min

Lab File: BM028793.D

Acq: 18 Feb 2021 13:01

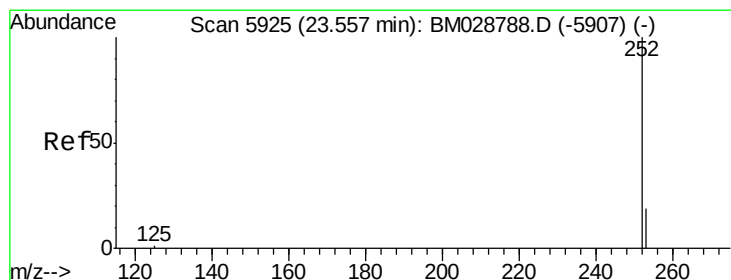
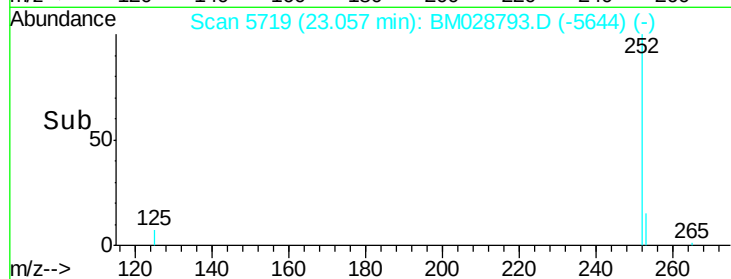
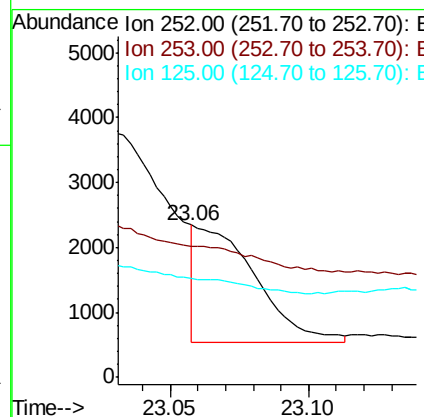
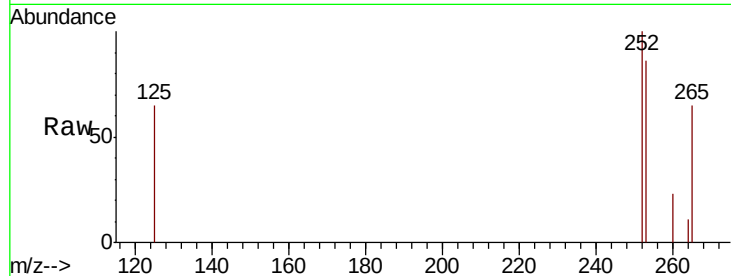
Instrument :  
BNA\_M

ClientSampleID :  
DBGY9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 86.2  | 26.3  | 39.5# |
| 125     | 64.9  | 22.9  | 34.3# |

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#23

Benzo(a)pyrene

Concen: 0.622 ng/ul

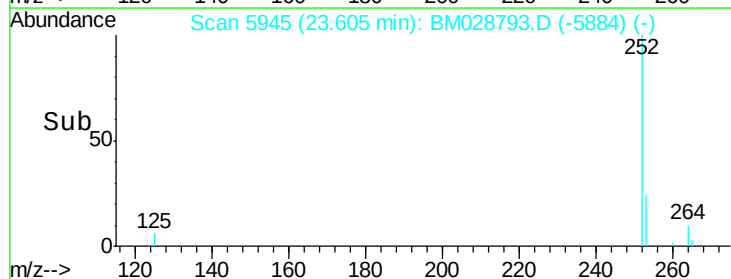
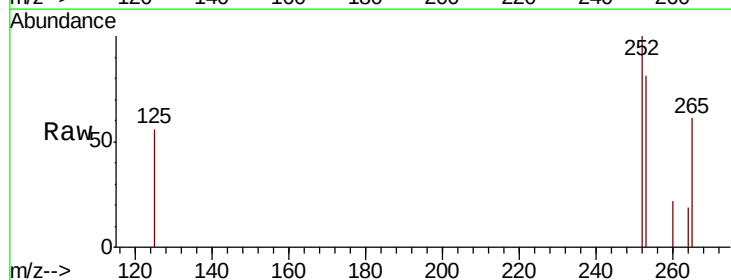
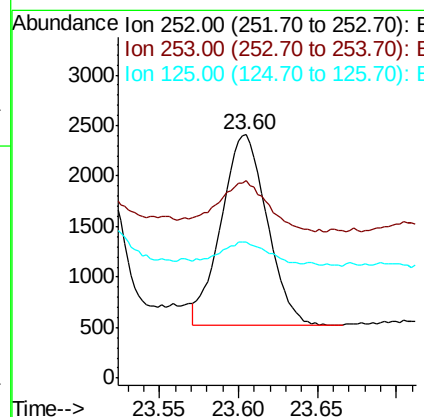
RT: 23.60 min Scan# 5945

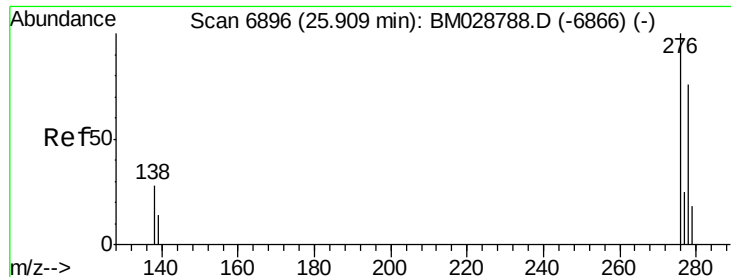
Delta R.T. 0.05 min

Lab File: BM028793.D

Acq: 18 Feb 2021 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 81.2  | 28.7  | 43.1# |
| 125     | 55.8  | 27.9  | 41.9# |





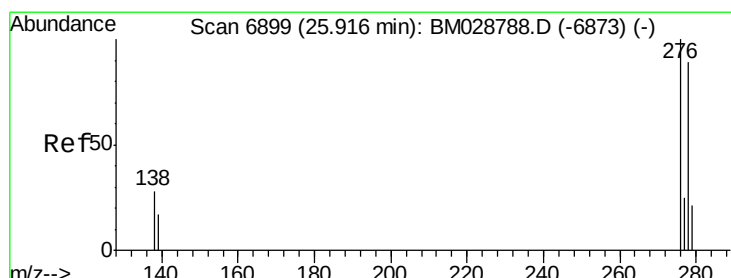
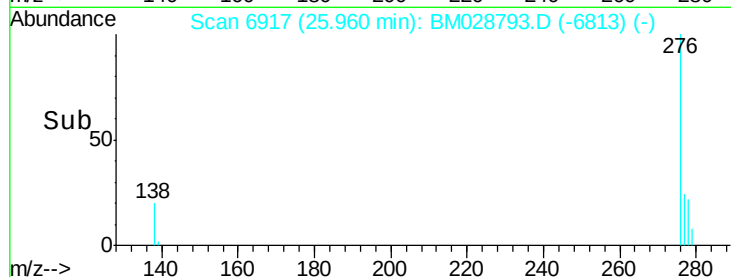
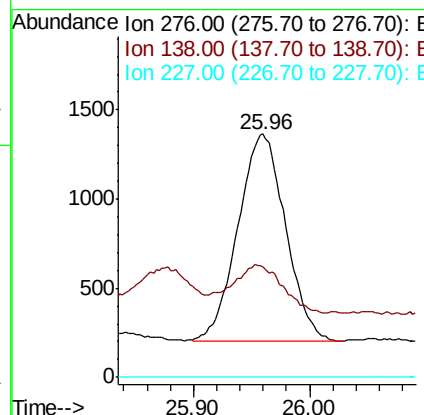
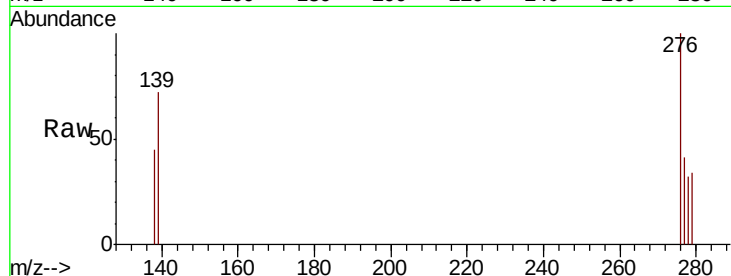
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.412 ng/ul  
RT: 25.96 min Scan# 6917  
Delta R.T. 0.05 min  
Lab File: BM028793.D  
Acq: 18 Feb 2021 13:01

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.5  | 0.0   | 0.0#  |
| 227     | 0.0   | 0.0   | 0.0   |

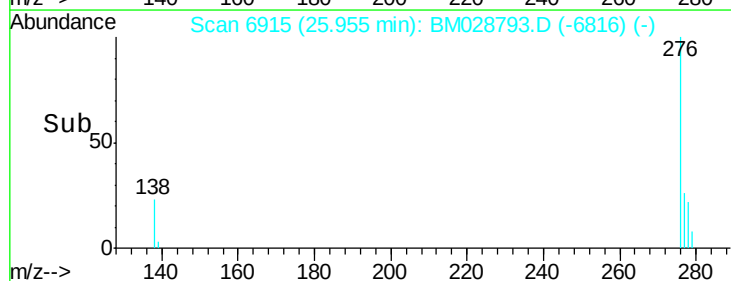
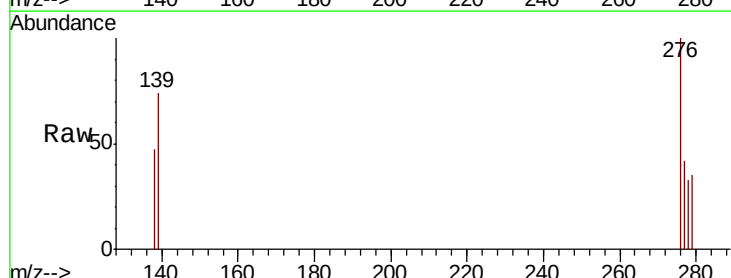
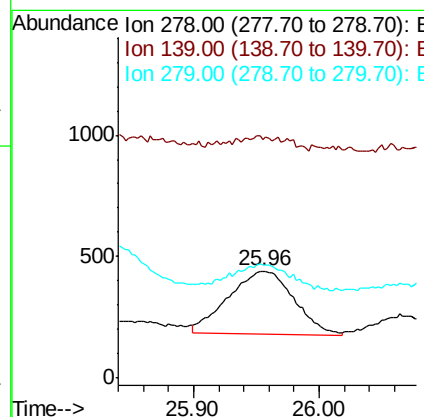
Manual Integrations  
APPROVED

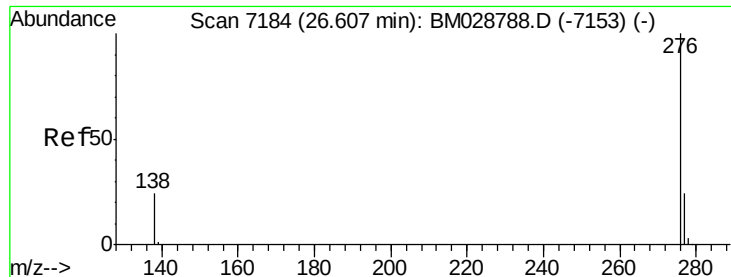
mohammad  
2/19/2021 1:19:37 PM



#25  
Dibenzo(a,h)anthracene  
Concen: 0.140 ng/ul  
RT: 25.96 min Scan# 6915  
Delta R.T. 0.04 min  
Lab File: BM028793.D  
Acq: 18 Feb 2021 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 223.9 | 24.9  | 37.3# |
| 279     | 106.2 | 28.3  | 42.5# |





#26

Benzo(a,h,i)perylene

Concen: 0.464 ng/ul

RT: 26.66 min Scan# 7206

Delta R.T. 0.05 min

Lab File: BM028793.D

Acq: 18 Feb 2021 13:01

Instrument :

BNA\_M

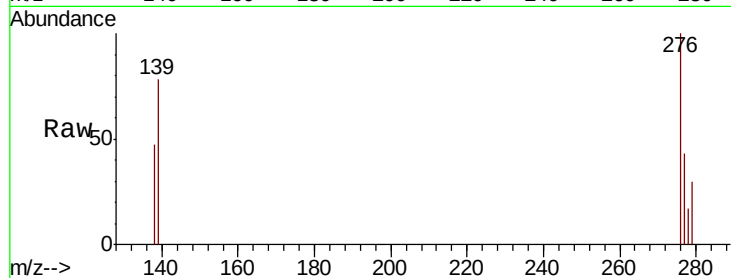
ClientSampleId :

DBGY9RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 47.3  | 25.4  | 38.2# |
| 277     | 42.9  | 25.3  | 37.9# |

Manual Integrations  
APPROVED

mohammad  
2/19/2021 1:19:37 PM



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

