

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM100520\  
 Data File : BM027614.D  
 Acq On : 05 Oct 2020 20:25  
 Operator : JU/CG  
 Sample : L4184-17  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AQ1

Manual Integrations  
 APPROVED

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 10/6/2020 3:23:57 PM

Quant Time: Oct 06 01:24:07 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM092320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 06 01:23:11 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|------|---------|----------|
| -----                       |        |      |          |      |         |          |
| Internal Standards          |        |      |          |      |         |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.796  | 152  | 1086     | 0.40 | ng/ul   | 0.00     |
| 2) Naphthalene-d8           | 10.577 | 136  | 3175     | 0.40 | ng/ul   | 0.00     |
| 6) Acenaphthene-d10         | 14.425 | 164  | 2308     | 0.40 | ng/ul   | 0.00     |
| 10) Phenanthrene-d10        | 17.166 | 188  | 5678     | 0.40 | ng/ul   | 0.00     |
| 16) Chrysene-d12            | 21.343 | 240  | 6177     | 0.40 | ng/ul # | 0.00     |
| 20) Perylene-d12            | 23.605 | 264  | 6310     | 0.40 | ng/ul # | 0.00     |
|                             |        |      |          |      |         |          |
| System Monitoring Compounds |        |      |          |      |         |          |
| 4) 2-Methylnaphthalene-d10  | 12.169 | 152  | 894      | 0.15 | ng/ul   | 0.00     |
| 14) Fluoranthene-d10        | 19.192 | 212  | 3110     | 0.20 | ng/ul   | 0.00     |
|                             |        |      |          |      |         |          |
| Target Compounds            |        |      |          |      |         |          |
|                             |        |      |          |      |         | Qvalue   |
| 3) Naphthalene              | 10.626 | 128  | 281      | 0.03 | ng/ul#  | 53       |
| 7) Acenaphthylene           | 14.141 | 152  | 389      | 0.03 | ng/ul#  | 63       |
| 8) Acenaphthene             | 14.486 | 153  | 302      | 0.04 | ng/ul   | 97       |
| 9) Fluorene                 | 15.475 | 166  | 492      | 0.05 | ng/ul#  | 95       |
| 12) Phenanthrene            | 17.208 | 178  | 15822    | 0.90 | ng/ul   | 99       |
| 13) Anthracene              | 17.298 | 178  | 2491     | 0.15 | ng/ul   | 93       |
| 15) Fluoranthene            | 19.222 | 202  | 64175    | 3.04 | ng/ul   | 97       |
| 17) Pyrene                  | 19.584 | 202  | 53503    | 1.90 | ng/ul#  | 95       |
| 18) Benzo(a)anthracene      | 21.328 | 228  | 29244    | 1.21 | ng/ul   | 99       |
| 19) Chrysene                | 21.379 | 228  | 41256    | 1.64 | ng/ul   | 98       |
| 21) Benzo(b)fluoranthene    | 22.924 | 252  | 61131m   | 2.40 | ng/ul   |          |
| 22) Benzo(k)fluoranthene    | 22.968 | 252  | 20558m   | 0.78 | ng/ul   |          |
| 23) Benzo(a)pyrene          | 23.506 | 252  | 33292    | 1.46 | ng/ul   | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.878 | 276  | 29135    | 0.99 | ng/ul#  | 95       |
| 25) Dibenzo(a,h)anthracene  | 25.887 | 278  | 7330     | 0.30 | ng/ul#  | 89       |
| 26) Benzo(g,h,i)perylene    | 26.576 | 276  | 26417    | 1.07 | ng/ul   | 98       |
| -----                       |        |      |          |      |         |          |

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

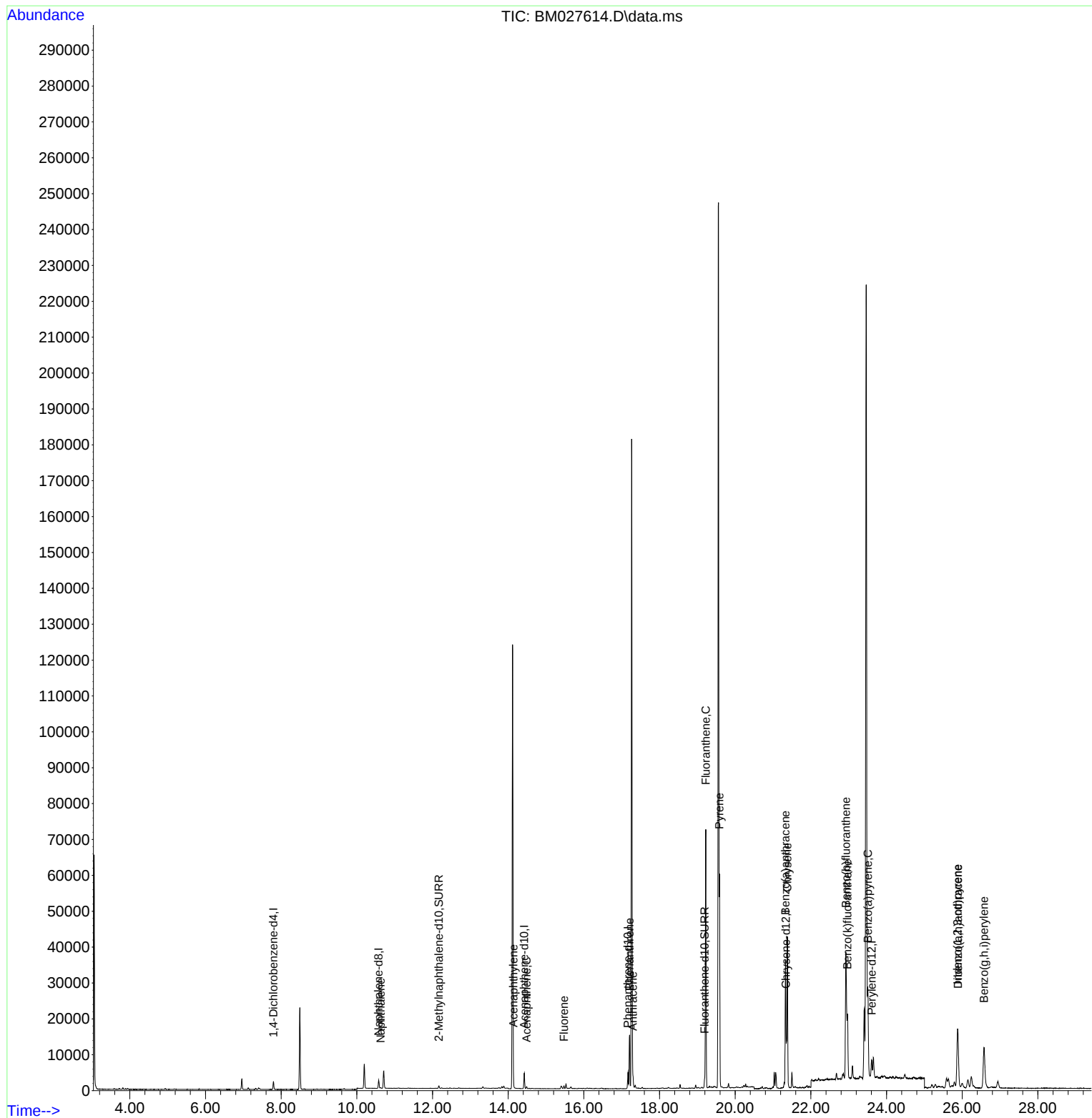
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM100520\  
Data File : BM027614.D  
Acq On : 05 Oct 2020 20:25  
Operator : JU/CG  
Sample : L4184-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

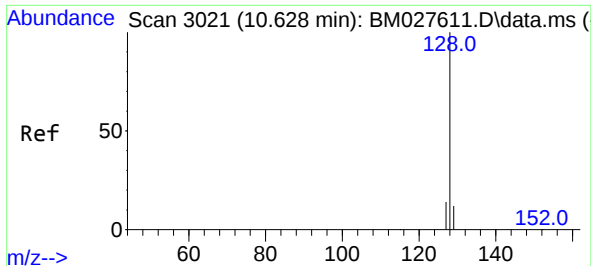
Instrument :  
BNA\_M  
ClientSampleId :  
C0AQ1

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Quant Time: Oct 06 01:24:07 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM092320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 06 01:23:11 2020  
Response via : Initial Calibration





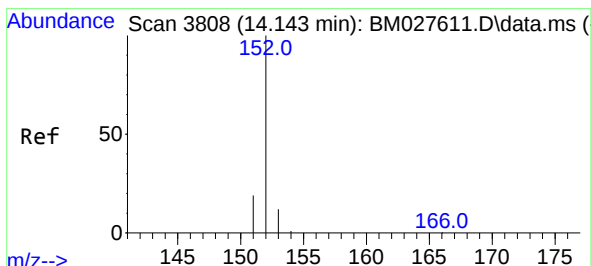
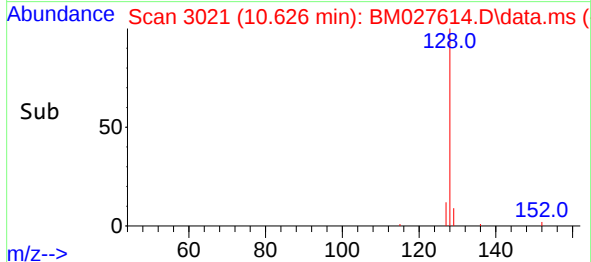
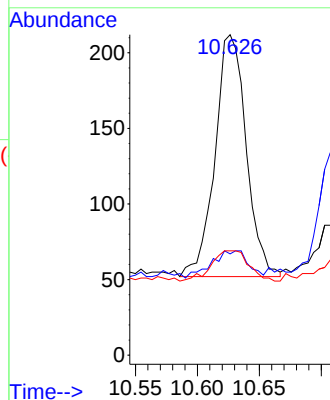
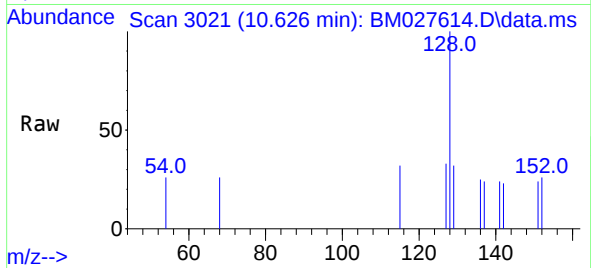
#3  
Naphthalene  
Concen: 0.03 ng/ul  
RT: 10.626 min Scan# 3021  
Delta R.T. -0.004 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 281   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 31.6  | 9.9   | 14.9# |
| 127      | 32.5  | 11.4  | 17.2# |

Instrument :  
BNA\_M  
ClientSampled :  
C0AQ1

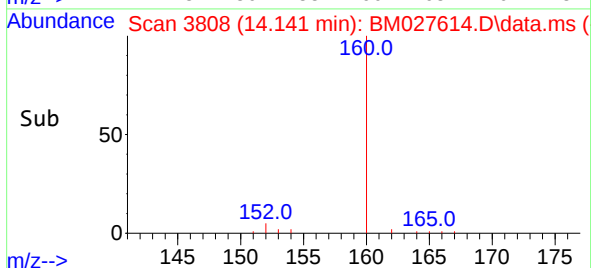
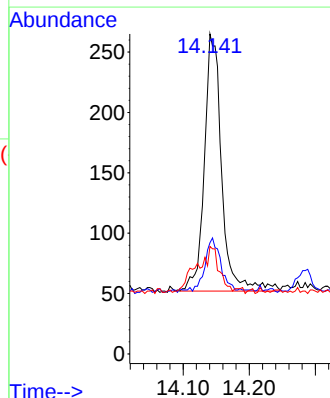
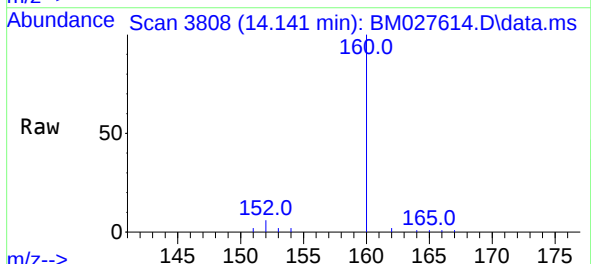
Manual Integrations  
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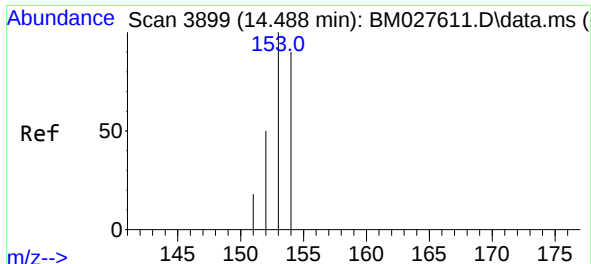
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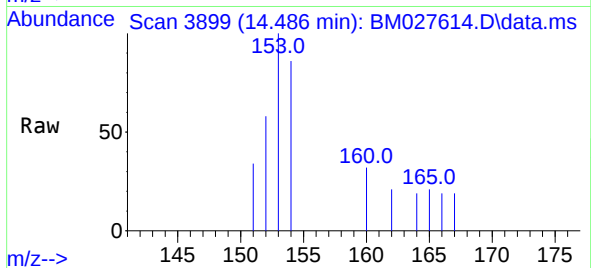
#7  
Acenaphthylene  
Concen: 0.03 ng/ul  
RT: 14.141 min Scan# 3808  
Delta R.T. -0.004 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 389   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 34.7  | 16.6  | 24.8# |
| 153      | 33.6  | 11.4  | 17.0# |



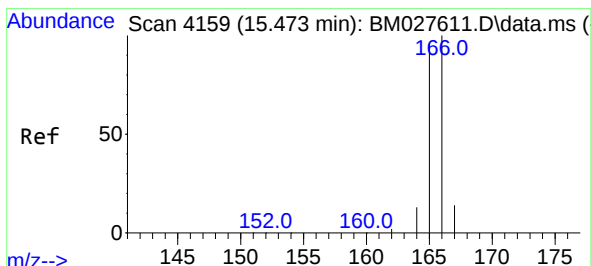
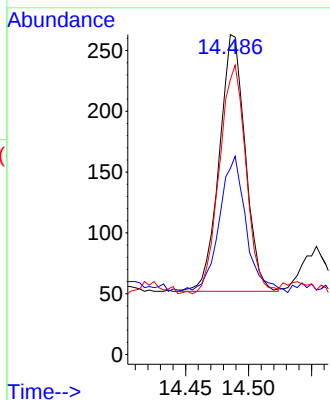
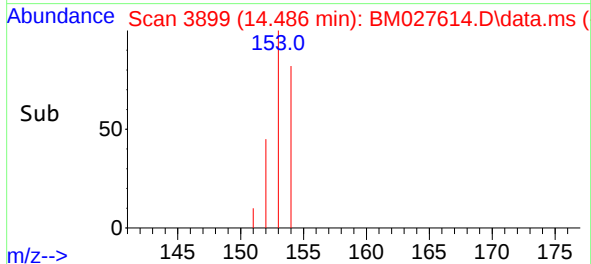


#8  
Acenaphthene  
Concen: 0.04 ng/ul  
RT: 14.486 min Scan# 3899  
Delta R.T. 0.000 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

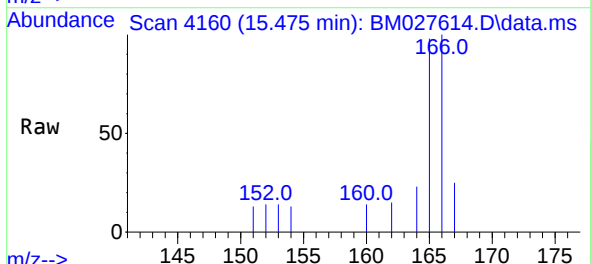


Tgt Ion:153 Resp: 302

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100   |       |       |
| 152 | 58.2  | 42.8  | 64.2  |
| 154 | 85.9  | 69.0  | 103.6 |

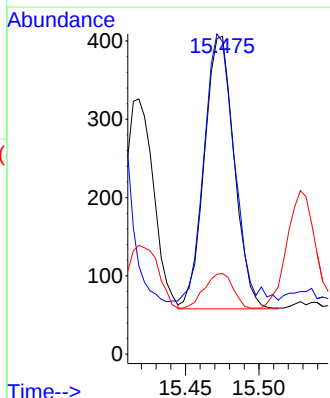
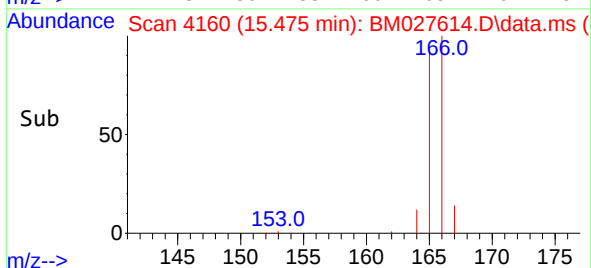


#9  
Fluorene  
Concen: 0.05 ng/ul  
RT: 15.475 min Scan# 4160  
Delta R.T. 0.000 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25



Tgt Ion:166 Resp: 492

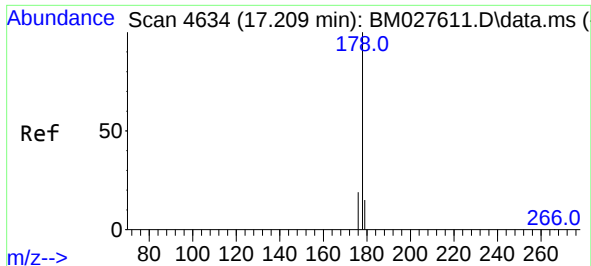
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 98.3  | 77.2  | 115.8 |
| 167 | 25.4  | 11.1  | 16.7  |



Instrument :  
BNA\_M  
ClientSampleId :  
C0AQ1

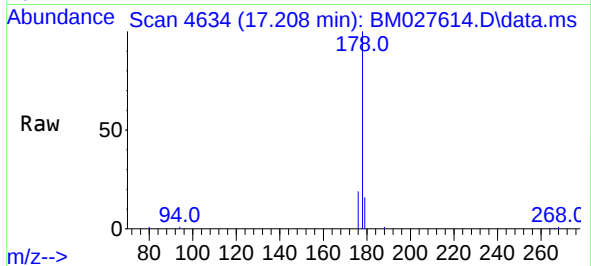
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#12  
Phenanthrene  
Concen: 0.90 ng/ul  
RT: 17.208 min Scan# 4634  
Delta R.T. 0.000 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

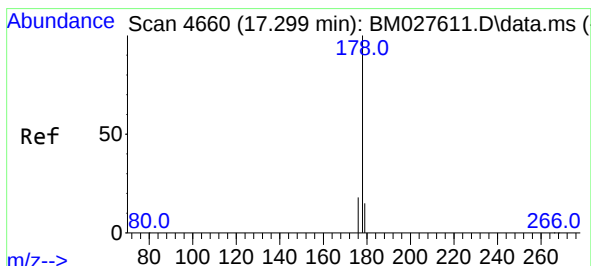
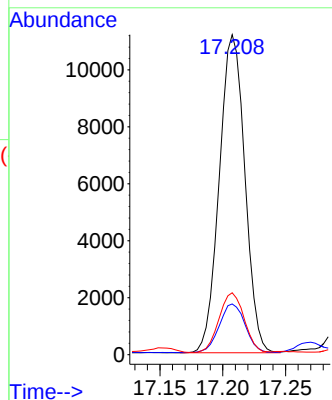
Instrument :  
BNA\_M  
ClientSampled :  
C0AQ1



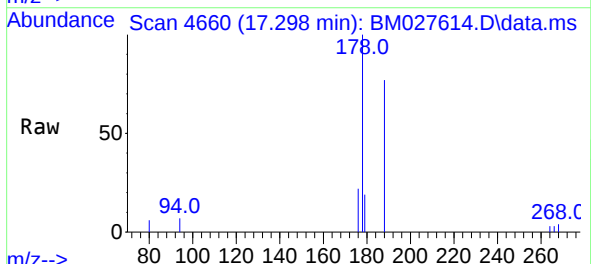
Tgt Ion:178 Resp: 15822  
Ion Ratio Lower Upper  
178 100  
179 15.8 12.9 19.3  
176 19.3 15.3 22.9

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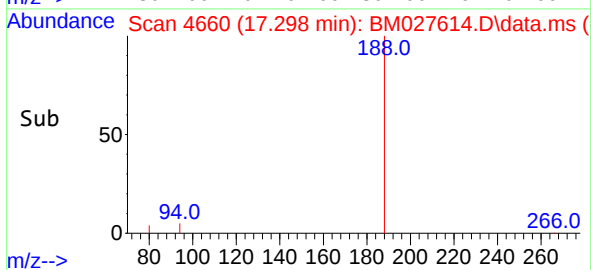
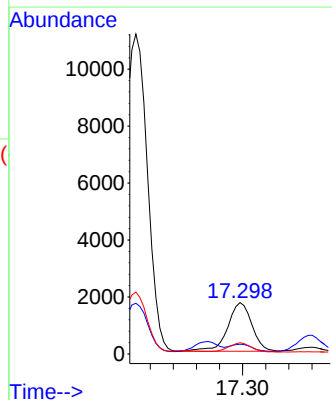
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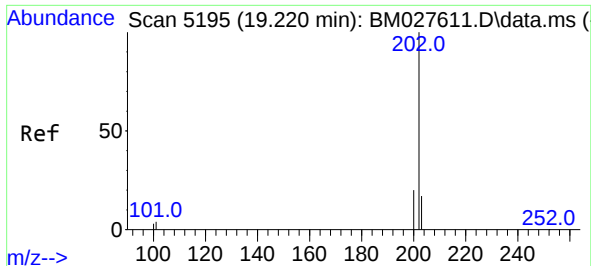


#13  
Anthracene  
Concen: 0.15 ng/ul  
RT: 17.298 min Scan# 4660  
Delta R.T. 0.000 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25



Tgt Ion:178 Resp: 2491  
Ion Ratio Lower Upper  
178 100  
179 19.1 13.0 19.4  
176 21.8 15.2 22.8





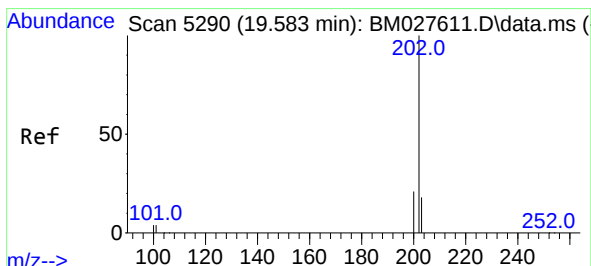
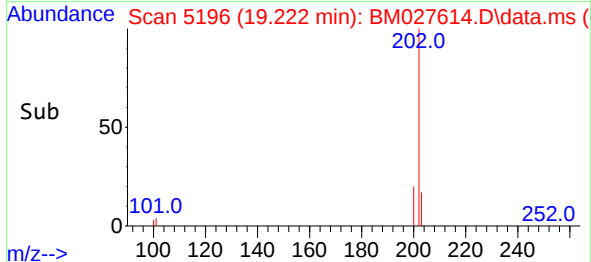
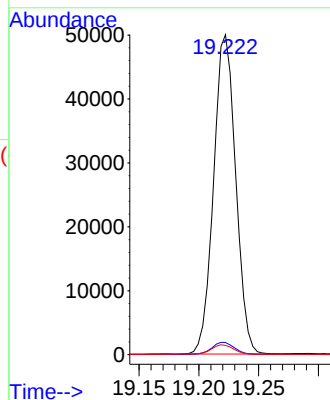
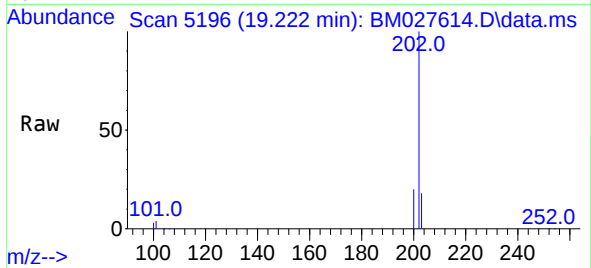
#15  
Fluoranthene  
Concen: 3.04 ng/ul  
RT: 19.222 min Scan# 5196  
Delta R.T. 0.000 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 64175 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 3.8   | 0.0   | 24.9  |
| 100       | 2.9   | 0.0   | 24.1  |

Instrument :  
BNA\_M  
ClientSampleId :  
C0AQ1

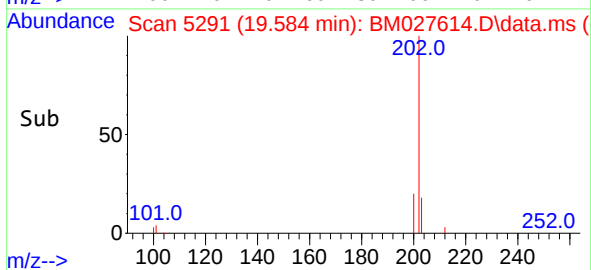
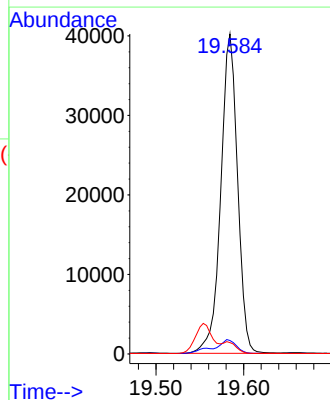
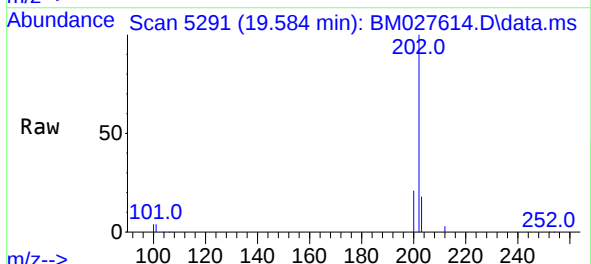
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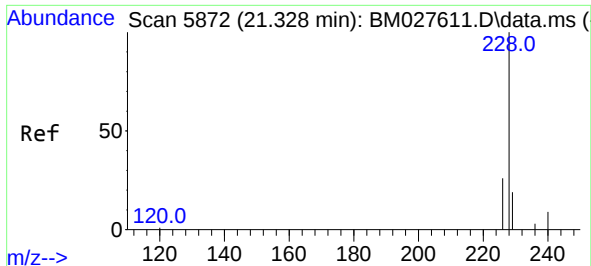
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#17  
Pyrene  
Concen: 1.90 ng/ul  
RT: 19.584 min Scan# 5291  
Delta R.T. 0.000 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 53503 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 4.2   | 4.7   | 7.1#  |
| 100       | 3.6   | 3.9   | 5.9#  |





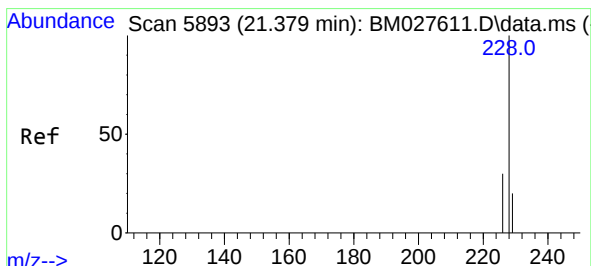
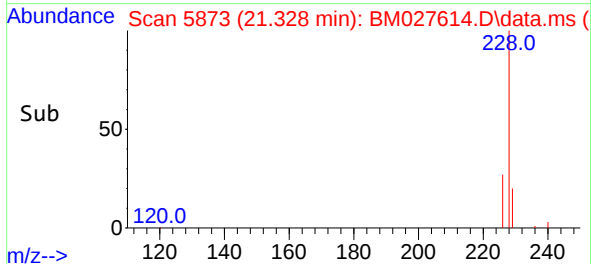
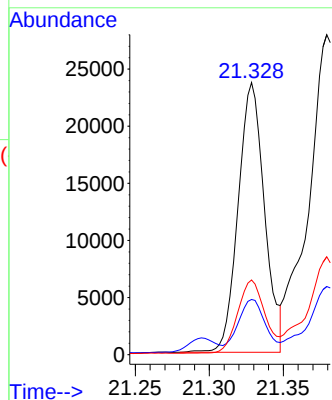
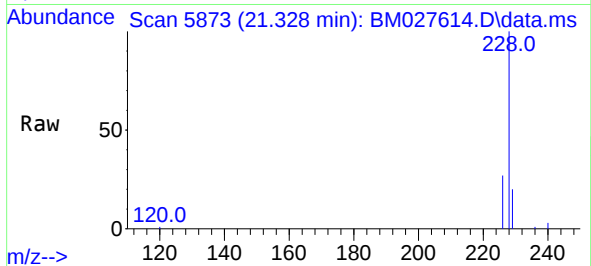
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Benzo(a)anthracene  
Concen: 1.21 ng/ul  
RT: 21.328 min Scan# 5873  
Delta R.T. -0.002 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 29244     |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 229         | 20.3  | 15.6 23.4 |
| 226         | 27.5  | 21.8 32.8 |

Instrument :  
BNA\_M  
ClientSampled :  
C0AQ1

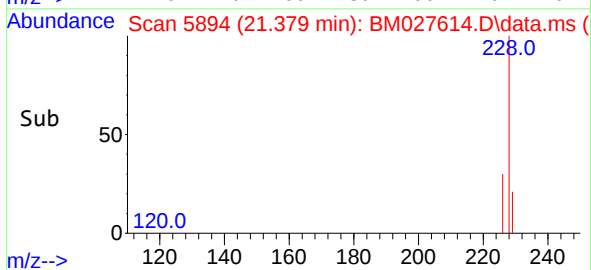
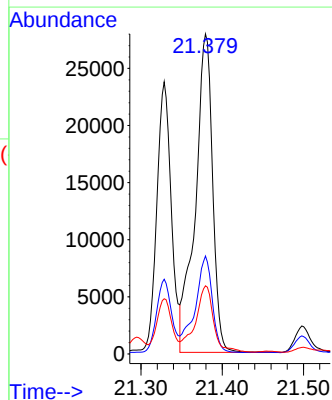
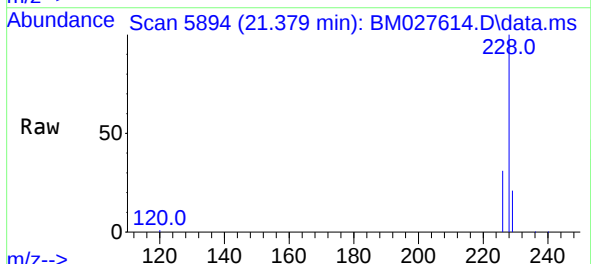
Manual Integrations  
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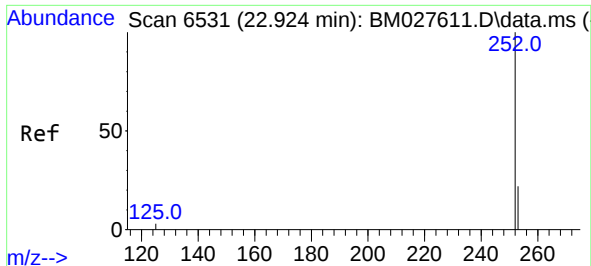
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#19  
Chrysene  
Concen: 1.64 ng/ul  
RT: 21.379 min Scan# 5894  
Delta R.T. -0.002 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 41256     |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 30.6  | 24.2 36.4 |
| 229         | 21.3  | 15.8 23.8 |





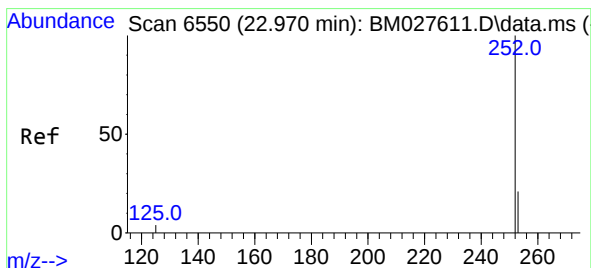
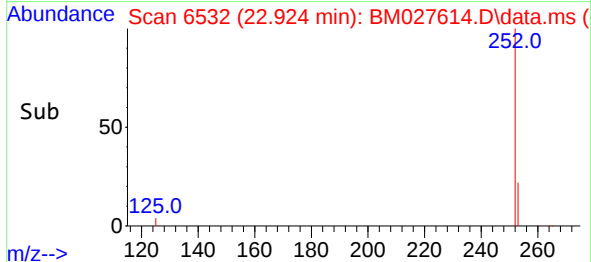
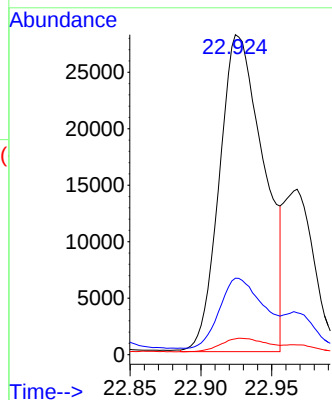
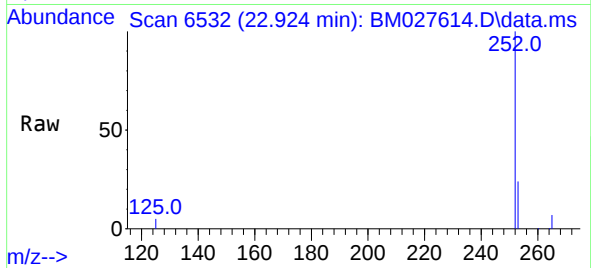
#21  
Benzo(b)fluoranthene  
Concen: 2.40 ng/ul m  
RT: 22.924 min Scan# 6532  
Delta R.T. -0.002 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:252 | Resp: | 61131    |
| Ion Ratio   | Lower | Upper    |
| 252         | 100   |          |
| 253         | 23.9  | 0.0 48.2 |
| 125         | 5.0   | 0.0 10.6 |

Instrument :  
BNA\_M  
ClientSampled :  
C0AQ1

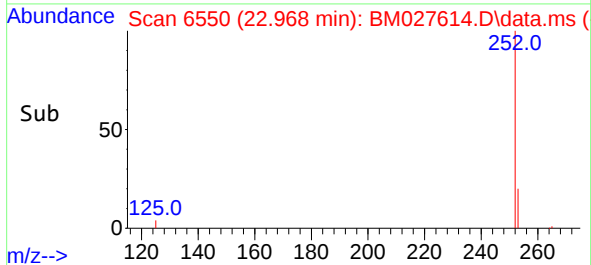
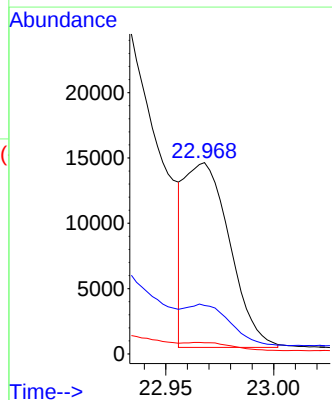
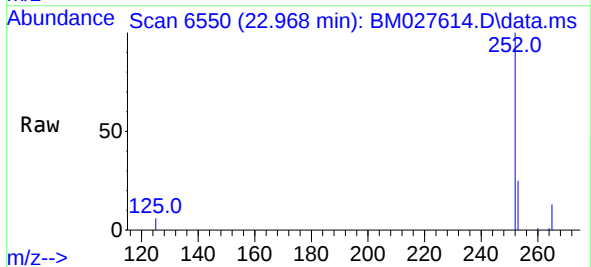
Manual Integrations  
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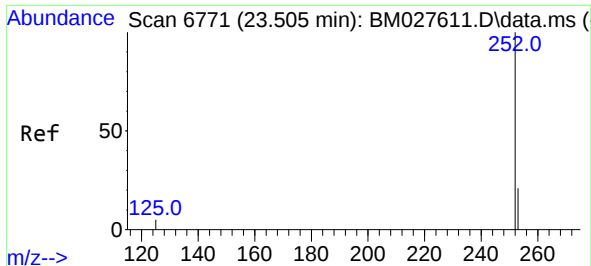
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#22  
Benzo(k)fluoranthene  
Concen: 0.78 ng/ul m  
RT: 22.968 min Scan# 6550  
Delta R.T. -0.005 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 20558     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.4  | 19.1 28.7 |
| 125         | 5.9   | 5.0 7.4   |





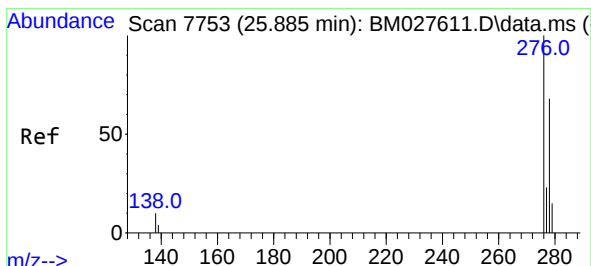
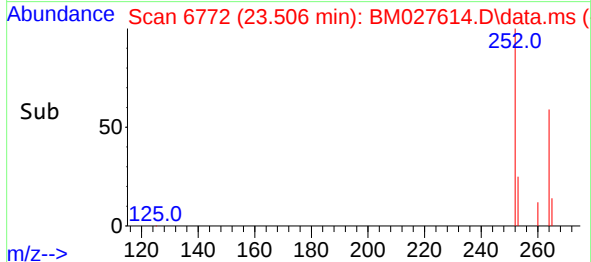
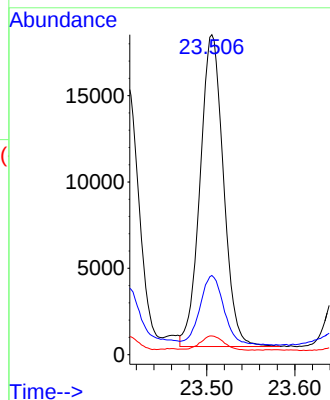
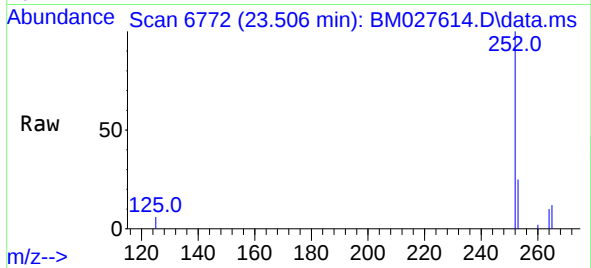
#23  
Benzo(a)pyrene  
Concen: 1.46 ng/u1  
RT: 23.506 min Scan# 6772  
Delta R.T. -0.002 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 33292 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.7  | 19.6  | 29.4  |
| 125       | 5.9   | 5.0   | 7.6   |

Instrument :  
BNA\_M  
ClientSampleId :  
C0AQ1

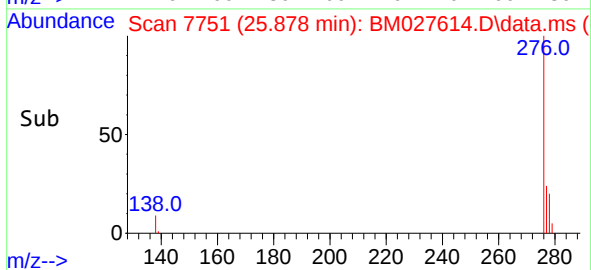
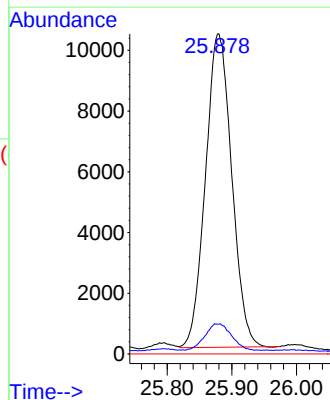
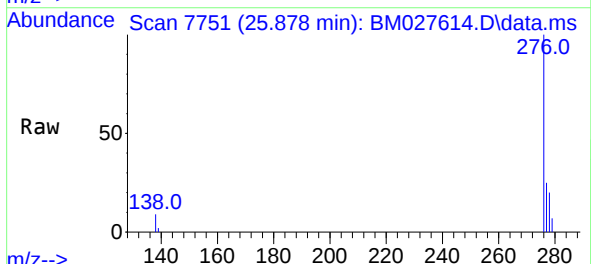
Manual Integrations  
APPROVED

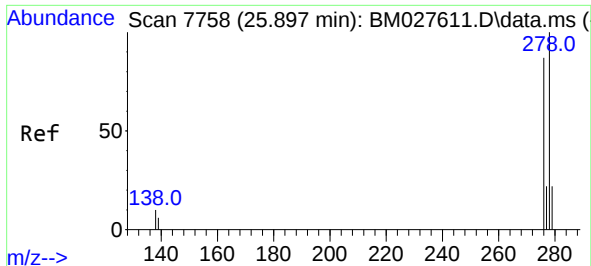
mohammad  
10/6/2020 3:23:57 PM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.99 ng/u1  
RT: 25.878 min Scan# 7751  
Delta R.T. -0.010 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 29135 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 8.7   | 8.6   | 12.8  |
| 227       | 0.0   | 0.0   | 0.0   |





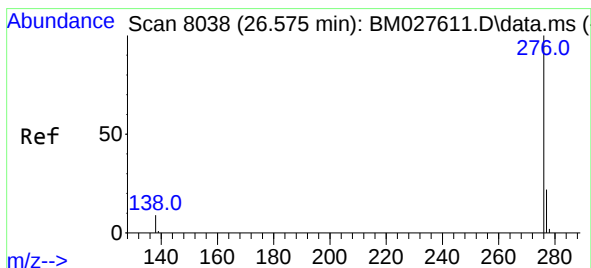
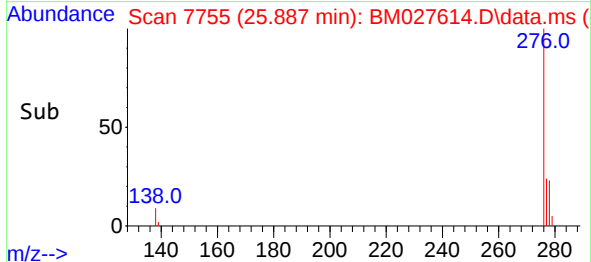
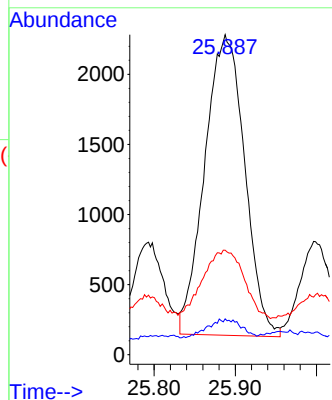
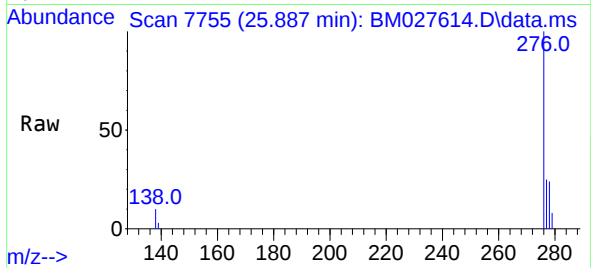
#25  
Dibenzo(a,h)anthracene  
Concen: 0.30 ng/ul  
RT: 25.887 min Scan# 7755  
Delta R.T. -0.014 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

Tgt Ion:278 Resp: 7330  
Ion Ratio Lower Upper  
278 100  
139 11.2 7.6 11.4  
279 32.7 20.7 31.1#

Instrument :  
BNA\_M  
ClientSampled :  
C0AQ1

Manual Integrations  
APPROVED

mohammad  
10/6/2020 3:23:57 PM



#26  
Benzo(g,h,i)perylene  
Concen: 1.07 ng/ul  
RT: 26.576 min Scan# 8039  
Delta R.T. -0.007 min  
Lab File: BM027614.D  
Acq: 05 Oct 2020 20:25

Tgt Ion:276 Resp: 26417  
Ion Ratio Lower Upper  
276 100  
138 9.6 9.0 13.4  
277 24.9 19.4 29.0

