

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM063021\  
 Data File : BM030727.D  
 Acq On : 01 Jul 2021 05:14  
 Operator : CG/JU  
 Sample : M2808-19  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BGD3

Manual Integrations  
 APPROVED

mohammad  
 7/1/2021 2:55:53 PM

Quant Time: Jul 01 05:55:57 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-BM062221.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 01 05:23:53 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 75923    | 20.000  | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.563 | 136  | 293782   | 20.000  | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.404 | 164  | 181698   | 20.000  | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.145 | 188  | 399165   | 20.000  | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.315 | 240  | 513254   | 20.000  | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.568 | 264  | 547777   | 20.000  | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8             | 3.269  | 96   | 4757m    | 2.540   | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.705  | 84   | 27411    | 5.448   | ng/ul  | 0.02     |
| 7) Phenol-d5                  | 6.946  | 99   | 68506    | 10.462  | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.110  | 67   | 47968    | 11.655  | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.310  | 132  | 59781    | 11.828  | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.481  | 113  | 55182    | 10.829  | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 8.934  | 128  | 26229    | 11.964  | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.651  | 143  | 26177    | 10.745  | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.187 | 165  | 52399    | 11.228  | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.704 | 131  | 67505    | 10.372  | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.816 | 166  | 174482   | 13.908  | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.098 | 160  | 208563   | 12.807  | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.616 | 143  | 17585m   | 7.399   | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.398 | 176  | 168920   | 15.181  | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.527 | 200  | 8958     | 3.430   | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.245 | 188  | 289551   | 15.543  | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.533 | 212  | 332815   | 12.375  | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.427 | 264  | 342937   | 12.042  | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |         |        |          |
|                               |        |      |          |         | Qvalue |          |
| 8) Phenol                     | 6.975  | 94   | 7705     | 1.164   | ng/ul  | 99       |
| 18) 4-Methylphenol            | 8.540  | 108  | 5950     | 1.139   | ng/ul  | 95       |
| 30) Naphthalene               | 10.610 | 128  | 112308   | 7.550   | ng/ul  | 99       |
| 36) 2-Methylnaphthalene       | 12.222 | 142  | 14443    | 1.391   | ng/ul  | 94       |
| 37) 1-Methylnaphthalene       | 12.445 | 142  | 12791    | 1.217   | ng/ul  | 98       |
| 50) Acenaphthylene            | 14.127 | 152  | 232354   | 15.382  | ng/ul  | 99       |
| 52) Acenaphthene              | 14.469 | 153  | 120725   | 11.012  | ng/ul  | 98       |
| 56) Dibenzofuran              | 14.804 | 168  | 75257    | 4.924   | ng/ul  | 98       |
| 61) Fluorene                  | 15.451 | 166  | 182055   | 14.454  | ng/ul  | 98       |
| 72) Phenanthrene              | 17.192 | 178  | 3074006  | 143.405 | ng/ul  | 99       |
| 74) Anthracene                | 17.280 | 178  | 1145707  | 52.274  | ng/ul  | 99       |
| 77) Carbazole                 | 17.545 | 167  | 44186    | 2.248   | ng/ul# | 94       |
| 80) Fluoranthene              | 19.209 | 202  | 6794063  | 206.850 | ng/ul  | 99       |
| 82) Pyrene                    | 19.568 | 202  | 4786102  | 138.678 | ng/ul  | 99       |
| 85) Benzo(a)anthracene        | 21.303 | 228  | 4003305m | 125.685 | ng/ul  |          |
| 87) Chrysene                  | 21.356 | 228  | 2970116  | 95.652  | ng/ul  | 95       |
| 90) Benzo(b)fluoranthene      | 22.903 | 252  | 3998463  | 114.973 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 22.939 | 252  | 1345146m | 40.247  | ng/ul  |          |
| 93) Benzo(a)pyrene            | 23.480 | 252  | 2252199  | 72.023  | ng/ul  | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 25.856 | 276  | 1474813  | 37.463  | ng/ul# | 94       |
| 95) Dibenzo(a,h)anthracene    | 25.856 | 278  | 490164   | 15.020  | ng/ul  | 93       |
| 96) Benzo(g,h,i)perylene      | 26.544 | 276  | 111220   | 3.386   | ng/ul# | 94       |
| -----                         |        |      |          |         |        |          |

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Sample : M2808-19  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BGDX3

Manual Integrations  
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Quant Time: Jul 01 05:55:57 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-BM062221.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jul 01 05:23:53 2021  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

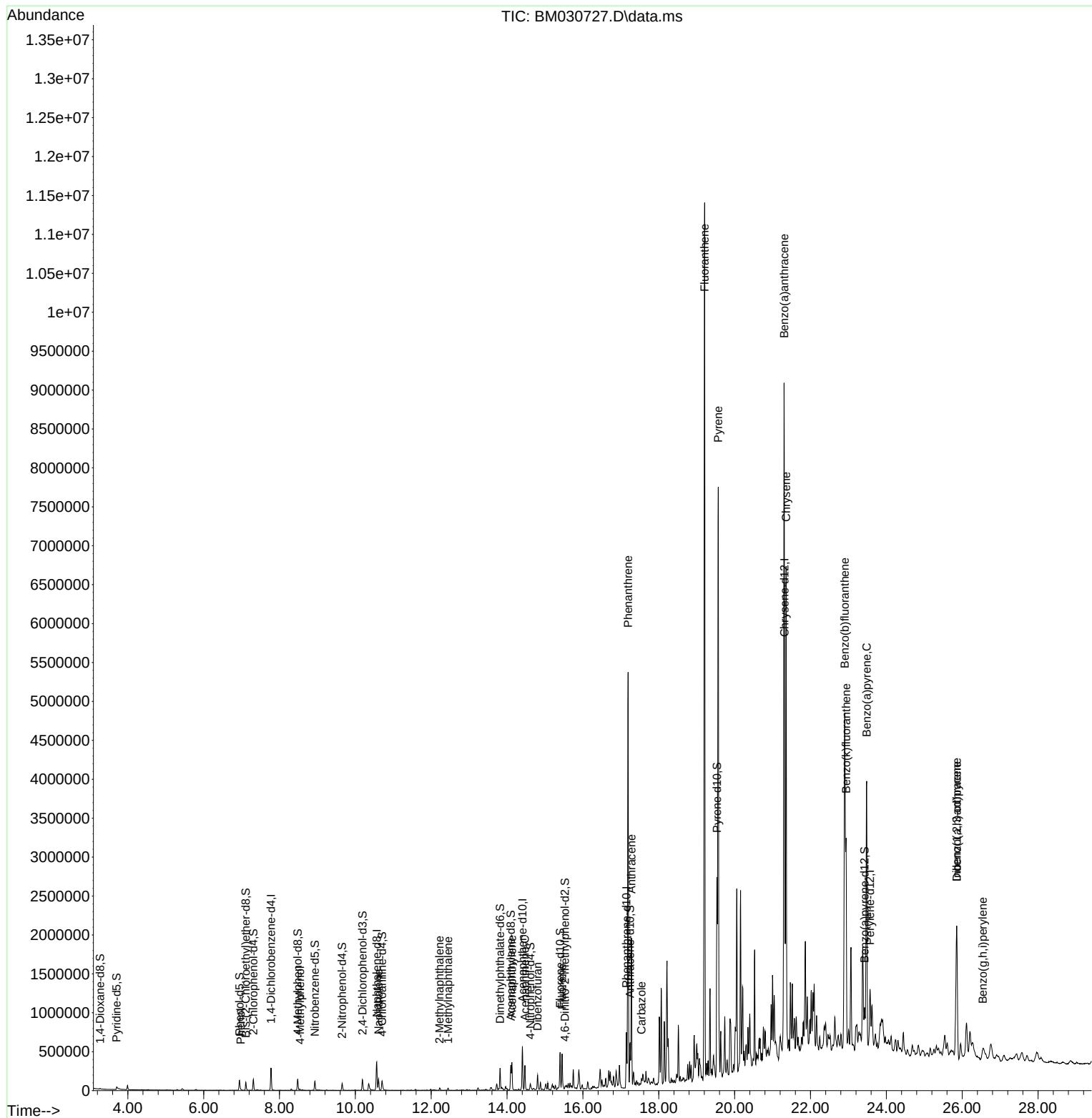
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM063021\  
Data File : BM030727.D  
Acq On : 01 Jul 2021 05:14  
Operator : CG/JU  
Sample : M2808-19  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

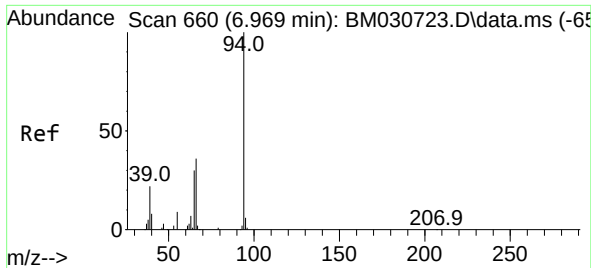
Instrument :  
BNA\_M  
ClientSampleId :  
BGDX3

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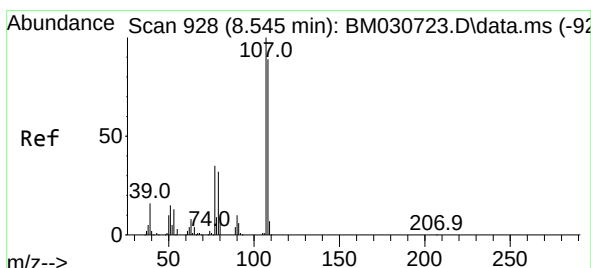
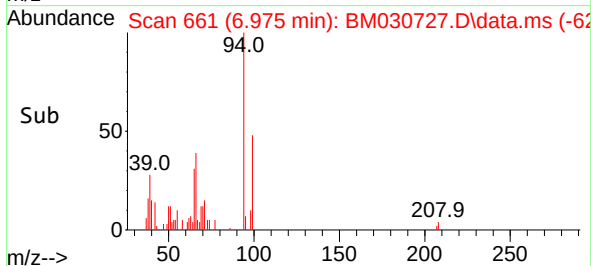
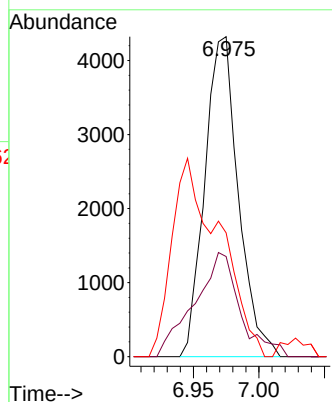
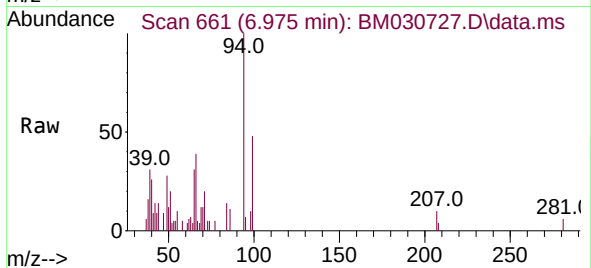
#8  
Phenol  
Concen: 1.164 ng/ul  
RT: 6.975 min Scan# 661  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 7705  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 31.3  | 24.2  | 36.4  |
| 66       | 38.7  | 31.4  | 47.0  |

Instrument :  
BNA\_M  
ClientSampled :  
BGDX3

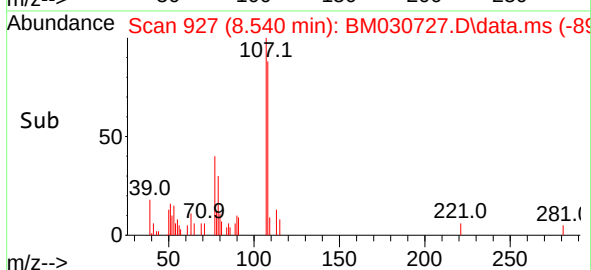
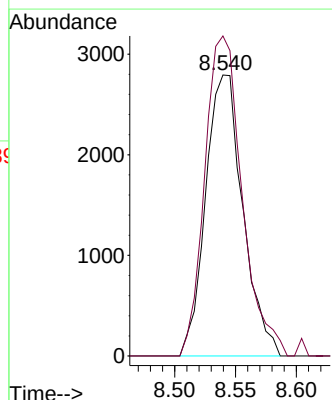
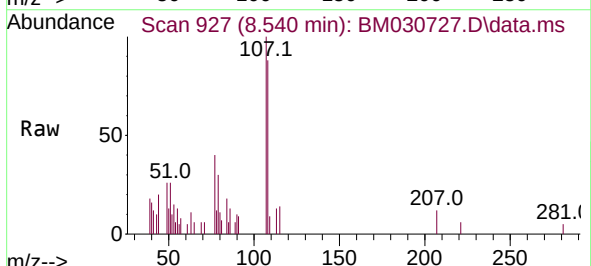
Manual Integrations  
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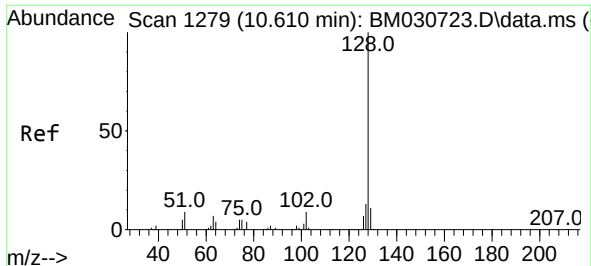
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#18  
4-Methylphenol  
Concen: 1.139 ng/ul  
RT: 8.540 min Scan# 927  
Delta R.T. -0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

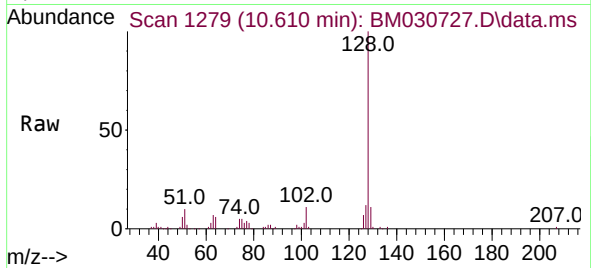
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 108   | Resp: | 5950  |
| Ion      | Ratio | Lower | Upper |
| 108      | 100   |       |       |
| 107      | 113.9 | 87.0  | 130.6 |





#30  
Naphthalene  
Concen: 7.550 ng/ul  
RT: 10.610 min Scan# 1279  
Delta R.T. -0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

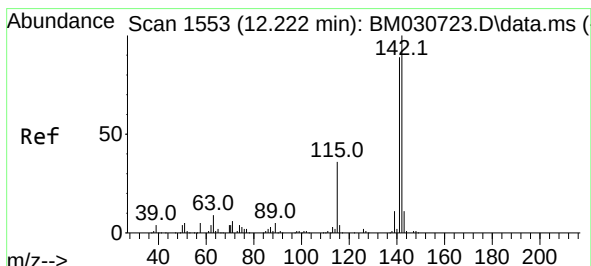
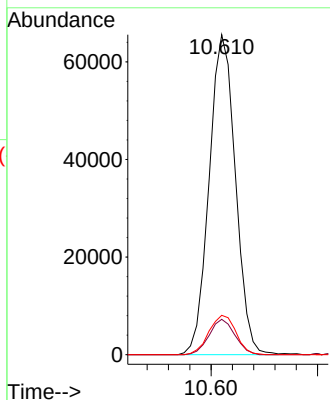
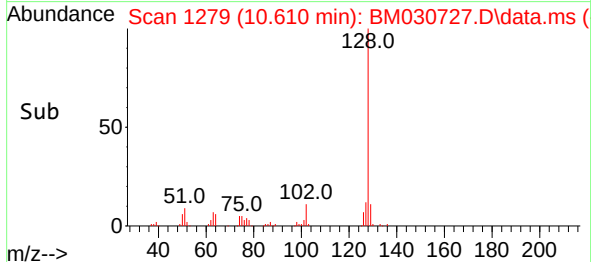
Instrument :  
BNA\_M  
ClientSampled :  
BGDX3



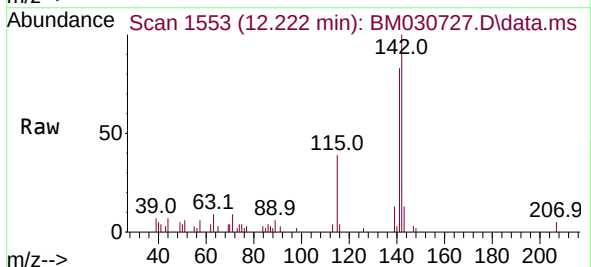
Tgt Ion:128 Resp: 112308  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.0 13.4  
127 12.3 10.6 15.8

Manual Integrations  
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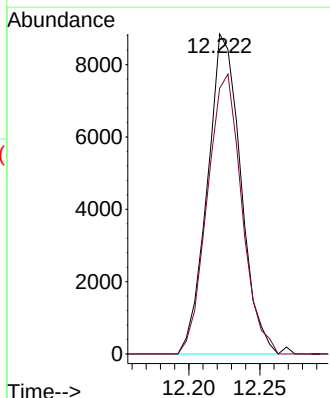
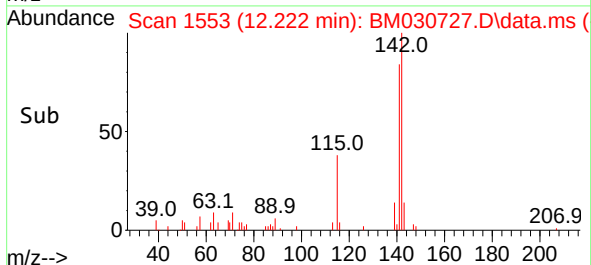
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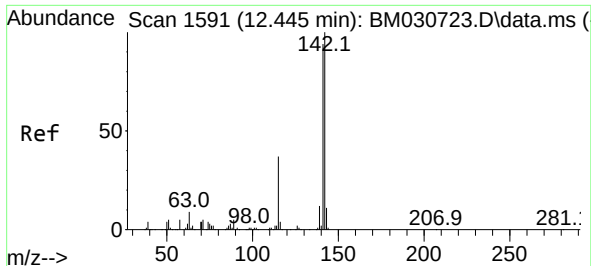


#36  
2-Methylnaphthalene  
Concen: 1.391 ng/ul  
RT: 12.222 min Scan# 1553  
Delta R.T. -0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



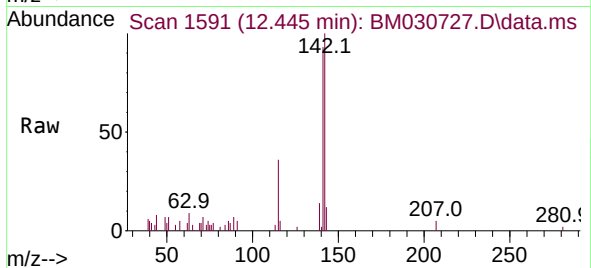
Tgt Ion:142 Resp: 14443  
Ion Ratio Lower Upper  
142 100  
141 83.0 70.6 105.8





#37  
1-Methylnaphthalene  
Concen: 1.217 ng/ul  
RT: 12.445 min Scan# 1591  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

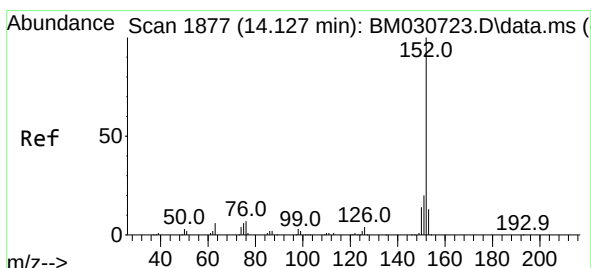
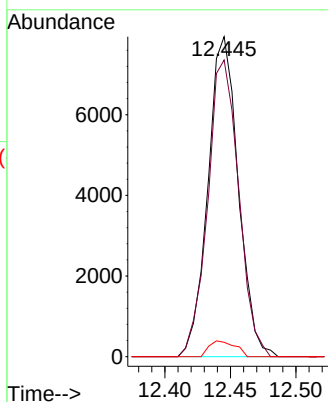
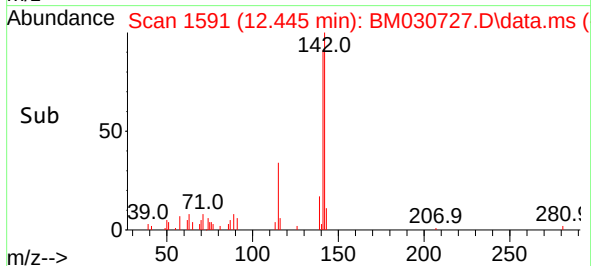
Instrument :  
BNA\_M  
ClientSampleId :  
BGDX3



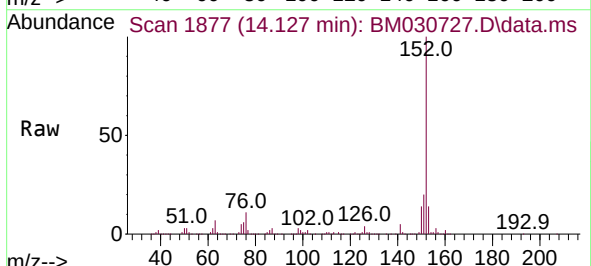
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.7  | 72.8  | 109.2 |
| 116     | 4.5   | 3.1   | 4.7   |

Manual Integrations  
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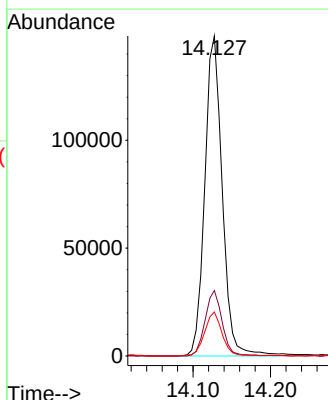
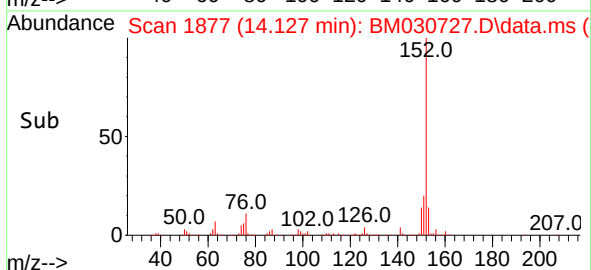
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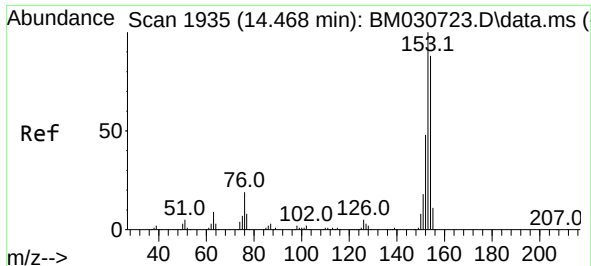


#50  
Acenaphthylene  
Concen: 15.382 ng/ul  
RT: 14.127 min Scan# 1877  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



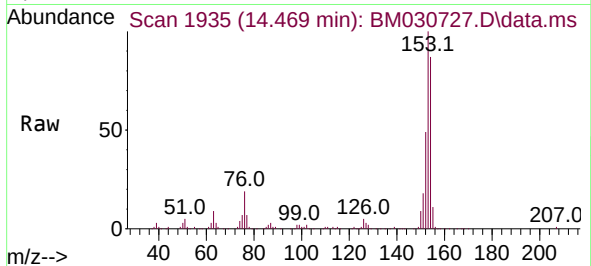
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.2  | 24.2  |
| 153     | 13.7  | 10.2  | 15.4  |





#52  
Acenaphthene  
Concen: 11.012 ng/ul  
RT: 14.469 min Scan# 1935  
Delta R.T. -0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

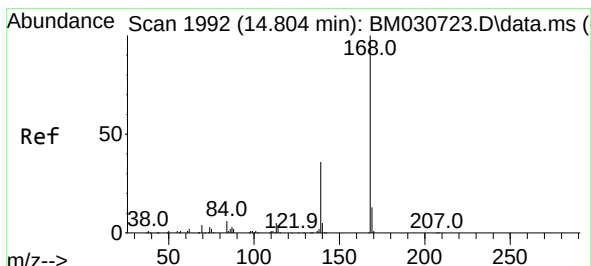
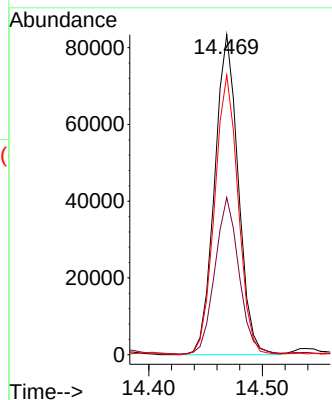
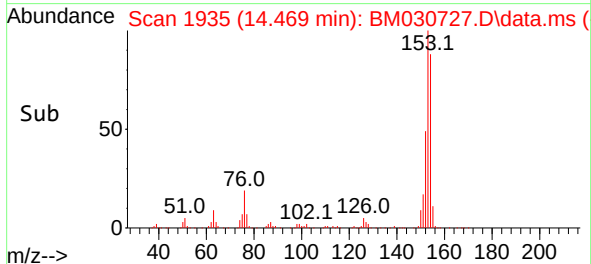
Instrument :  
BNA\_M  
ClientSampled :  
BGDX3



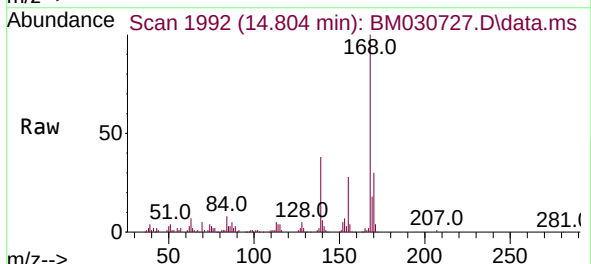
Tgt Ion:153 Resp: 120725  
Ion Ratio Lower Upper  
153 100  
152 49.1 37.4 56.2  
154 87.4 69.4 104.0

Manual Integrations  
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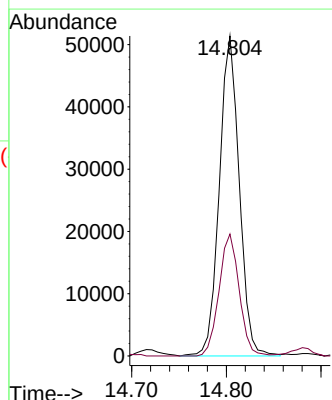
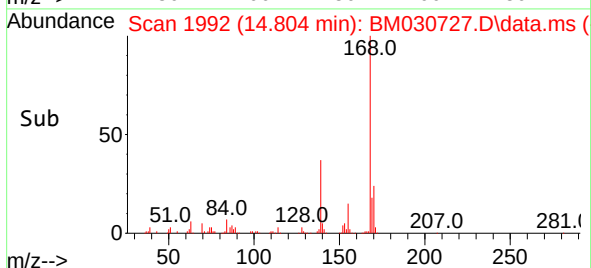
mohammad  
7/1/2021 2:55:53 PM

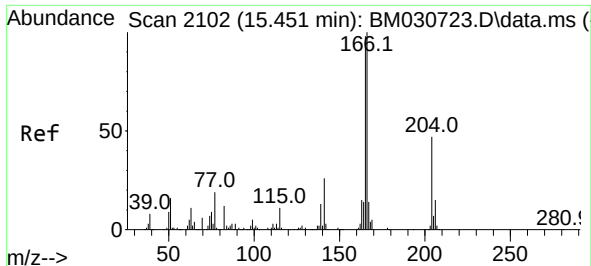


#56  
Dibenzofuran  
Concen: 4.924 ng/ul  
RT: 14.804 min Scan# 1992  
Delta R.T. -0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



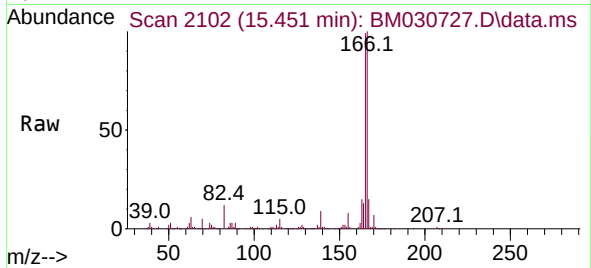
Tgt Ion:168 Resp: 75257  
Ion Ratio Lower Upper  
168 100  
139 38.1 29.5 44.3



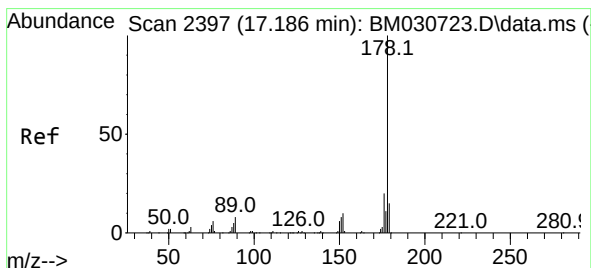
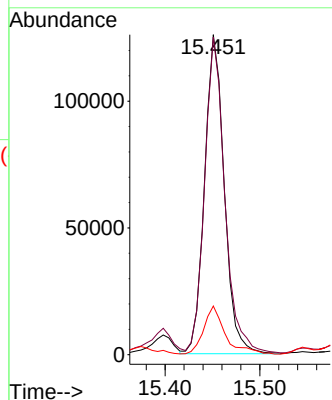
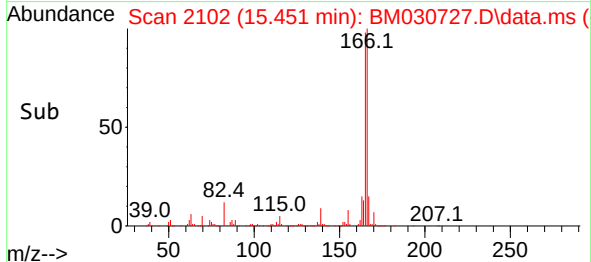


#61  
Fluorene  
Concen: 14.454 ng/ul  
RT: 15.451 min Scan# 2102  
Delta R.T. -0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

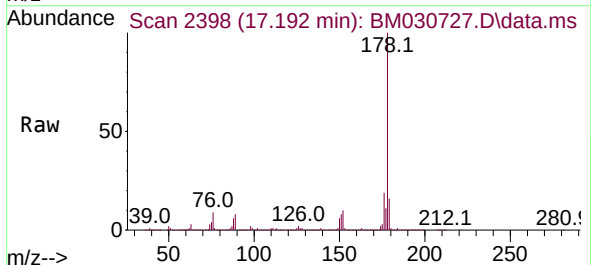
Instrument :  
BNA\_M  
ClientSampleId :  
BGDX3



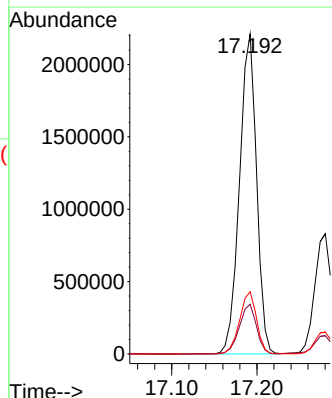
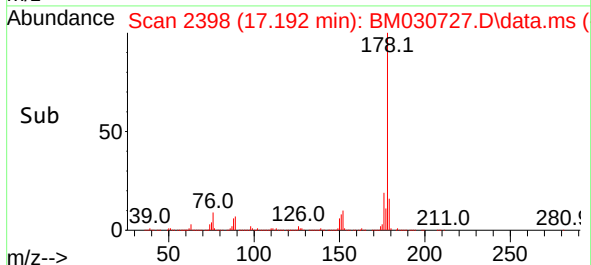
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Ion Ratio Lower Upper  
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165 99.2 78.4 117.6  
167 15.2 10.6 15.8



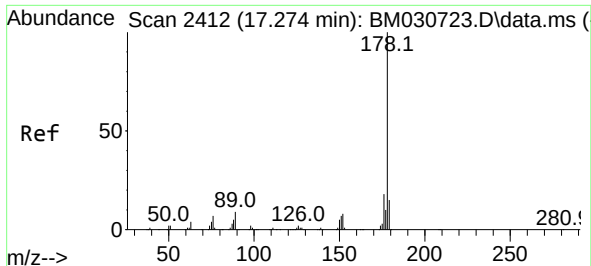
#72  
Phenanthrene  
Concen: 143.405 ng/ul  
RT: 17.192 min Scan# 2398  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



Tgt Ion:178 Resp: 3074006  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.1 18.1  
176 19.5 15.2 22.8

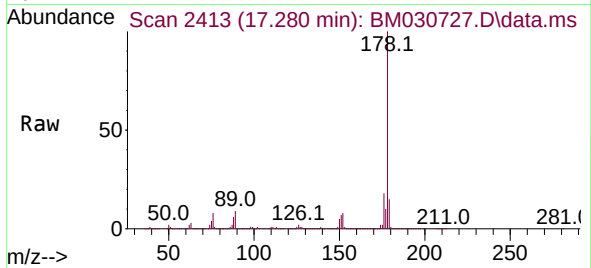






#74  
 Anthracene  
 Concen: 52.274 ng/ul  
 RT: 17.280 min Scan# 2413  
 Delta R.T. -0.000 min  
 Lab File: BM030727.D  
 Acq: 01 Jul 2021 05:14

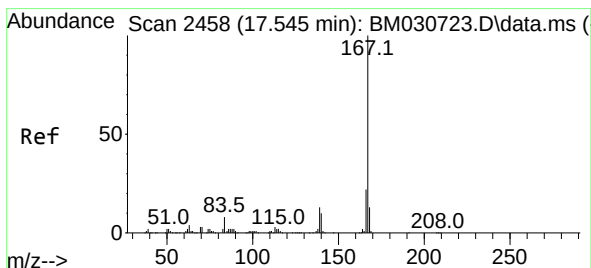
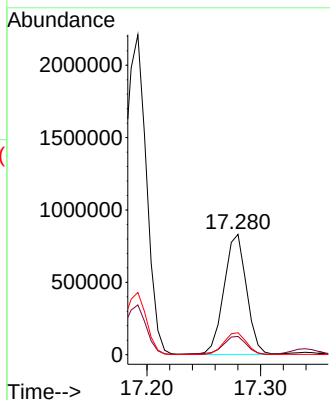
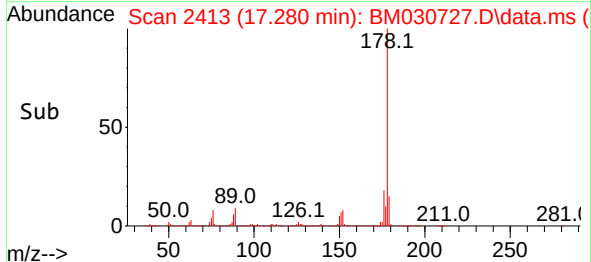
Instrument :  
 BNA\_M  
 ClientSampled :  
 BGD3



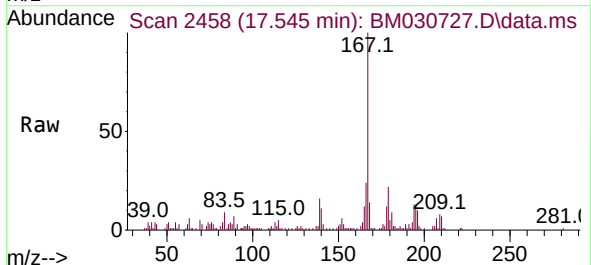
Tgt Ion:178 Resp: 1145707  
 Ion Ratio Lower Upper  
 178 100  
 179 15.2 12.1 18.1  
 176 18.2 15.2 22.8

Manual Integrations  
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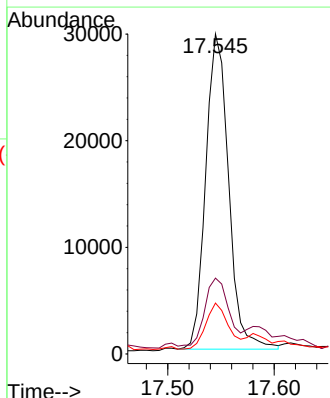
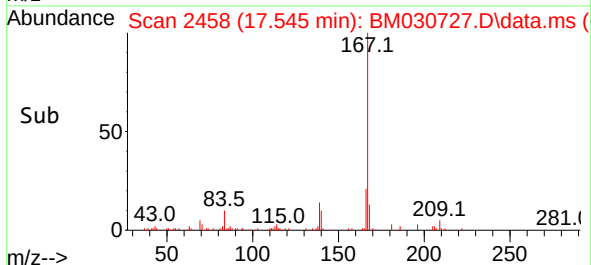
mohammad  
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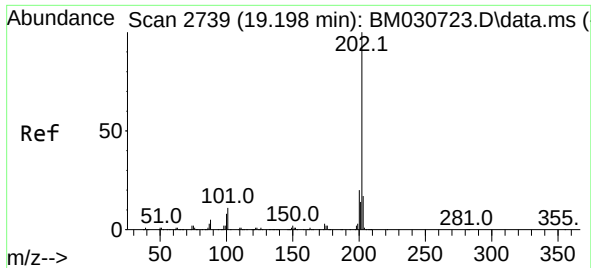


#77  
 Carbazole  
 Concen: 2.248 ng/ul  
 RT: 17.545 min Scan# 2458  
 Delta R.T. -0.006 min  
 Lab File: BM030727.D  
 Acq: 01 Jul 2021 05:14



Tgt Ion:167 Resp: 44186  
 Ion Ratio Lower Upper  
 167 100  
 166 23.7 17.0 25.6  
 139 15.9 9.9 14.9#





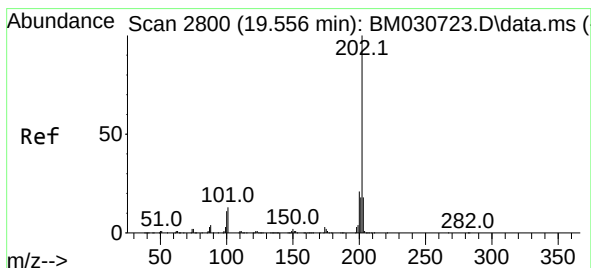
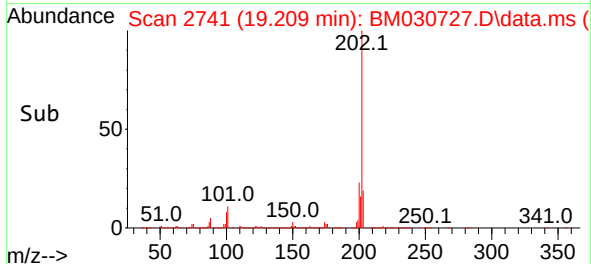
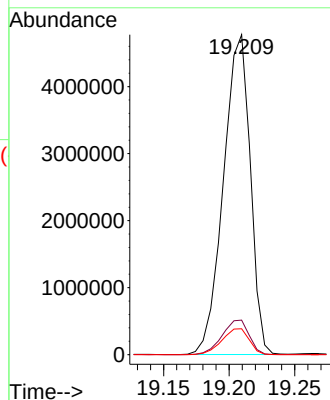
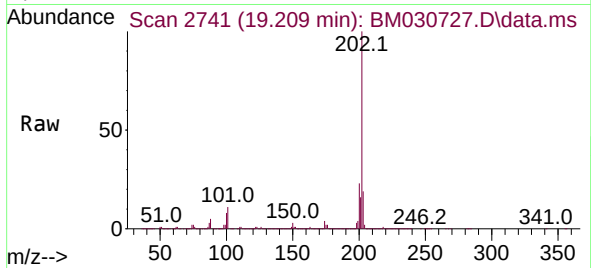
#80  
Fluoranthene  
Concen: 206.850 ng/u1  
RT: 19.209 min Scan# 2741  
Delta R.T. 0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

Tgt Ion:202 Resp: 6794063  
Ion Ratio Lower Upper  
202 100  
101 10.8 8.8 13.2  
100 8.1 6.8 10.2

Instrument :  
BNA\_M  
ClientSampled :  
BGDX3

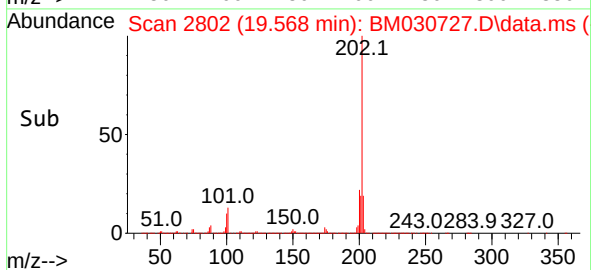
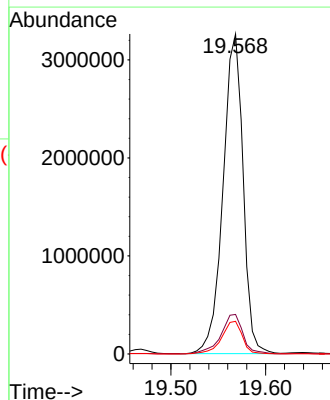
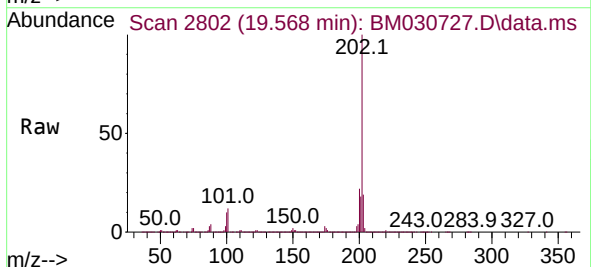
Manual Integrations  
APPROVED

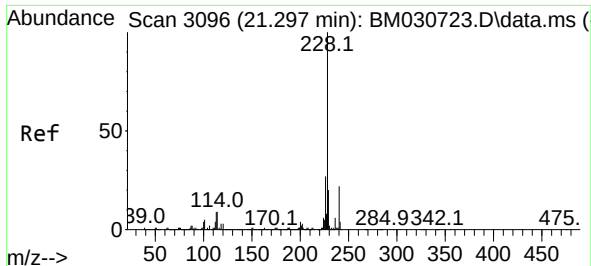
mohammad  
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#82  
Pyrene  
Concen: 138.678 ng/u1  
RT: 19.568 min Scan# 2802  
Delta R.T. 0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

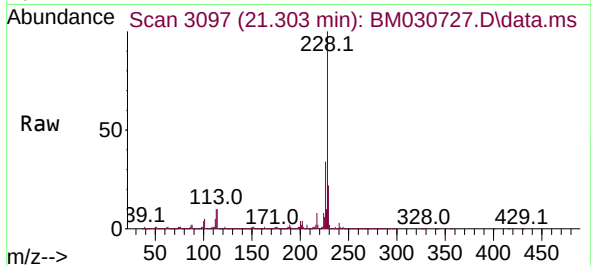
Tgt Ion:202 Resp: 4786102  
Ion Ratio Lower Upper  
202 100  
101 12.3 10.0 15.0  
100 10.2 8.5 12.7





#85  
Benzo(a)anthracene  
Concen: 125.685 ng/ul m  
RT: 21.303 min Scan# 3097  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

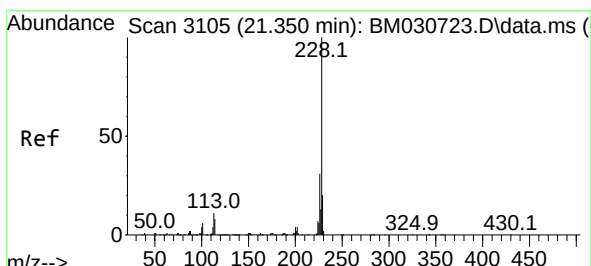
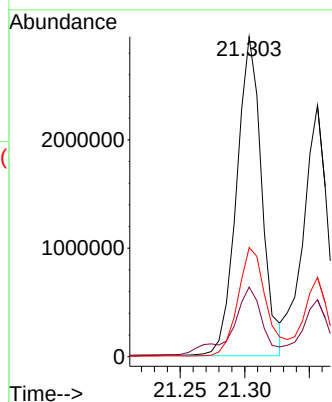
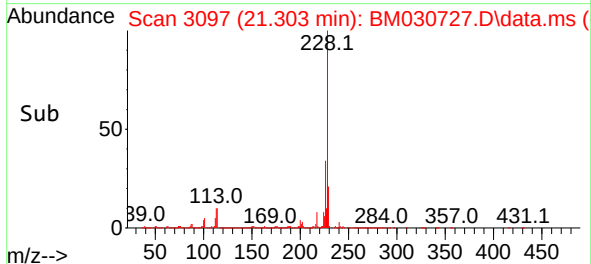
Instrument :  
BNA\_M  
ClientSampled :  
BGDX3



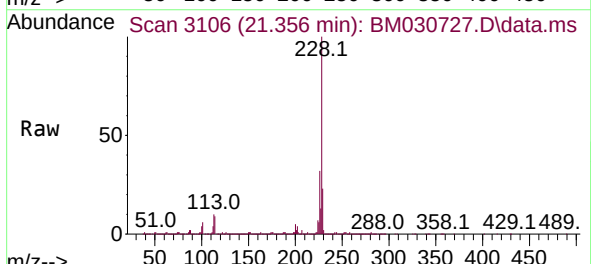
Tgt Ion:228 Resp: 4003305  
Ion Ratio Lower Upper  
228 100  
229 21.7 16.0 24.0  
226 34.1 22.2 33.2#

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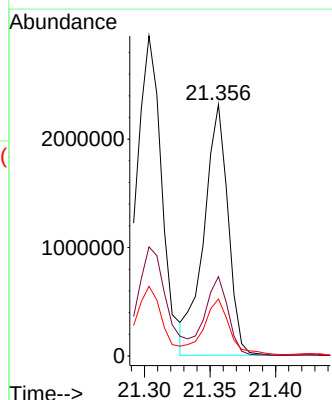
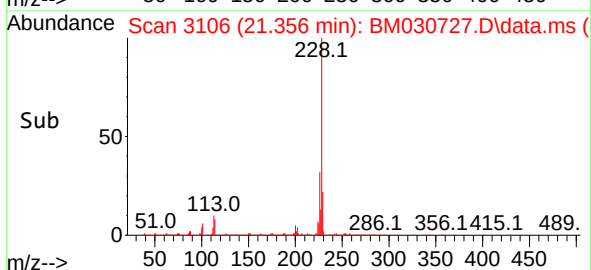
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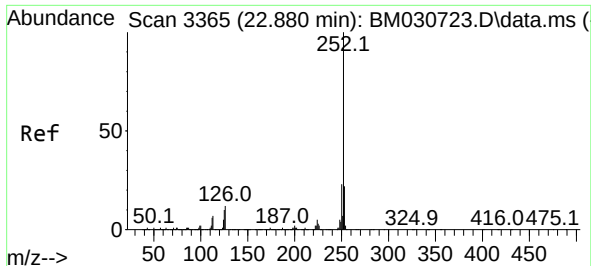


#87  
Chrysene  
Concen: 95.652 ng/ul  
RT: 21.356 min Scan# 3106  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



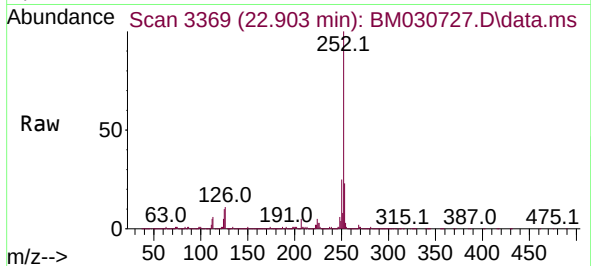
Tgt Ion:228 Resp: 2970116  
Ion Ratio Lower Upper  
228 100  
226 31.6 23.6 35.4  
229 22.6 15.9 23.9





#90  
Benzo(b)fluoranthene  
Concen: 114.973 ng/ul  
RT: 22.903 min Scan# 3369  
Delta R.T. 0.012 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

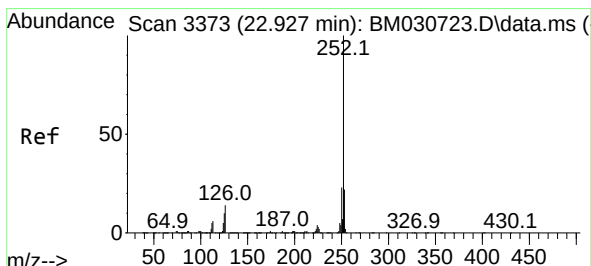
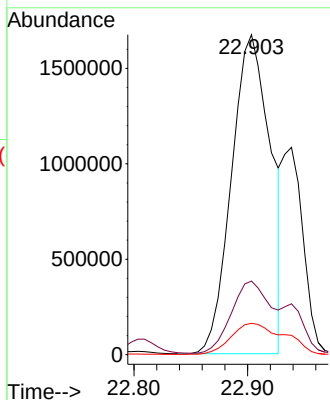
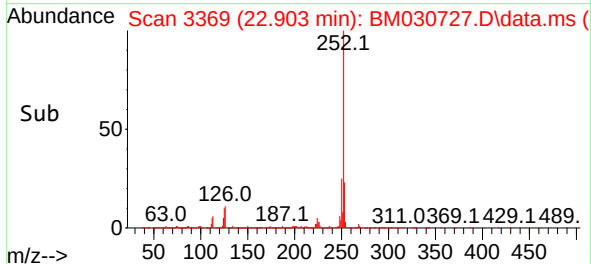
Instrument :  
BNA\_M  
ClientSampled :  
BGDX3



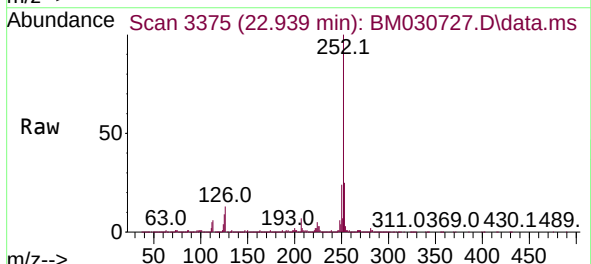
Tgt Ion:252 Resp: 3998463  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.8 26.6  
125 9.8 7.7 11.5

Manual Integrations  
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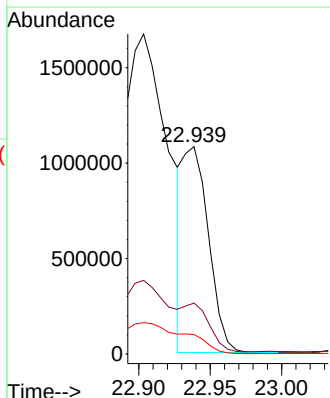
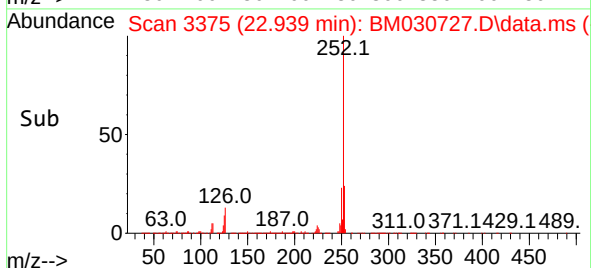
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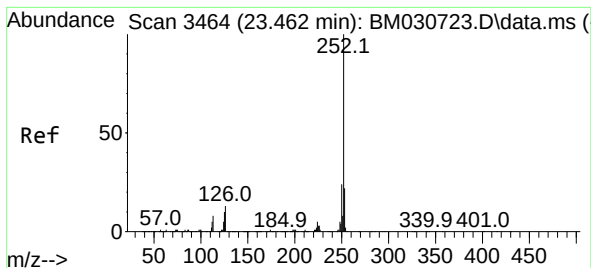


#91  
Benzo(k)fluoranthene  
Concen: 40.247 ng/ul m  
RT: 22.939 min Scan# 3375  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



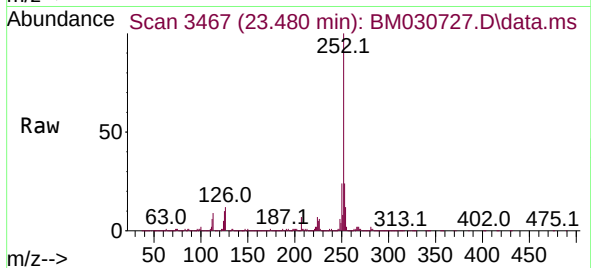
Tgt Ion:252 Resp: 1345146  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.4 26.2  
125 9.3 7.9 11.9





#93  
Benzo(a)pyrene  
Concen: 72.023 ng/ul  
RT: 23.480 min Scan# 3467  
Delta R.T. 0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

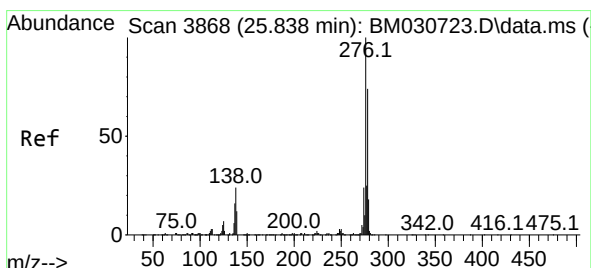
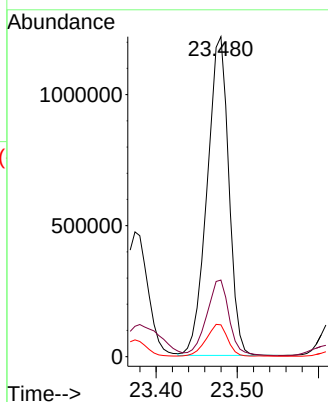
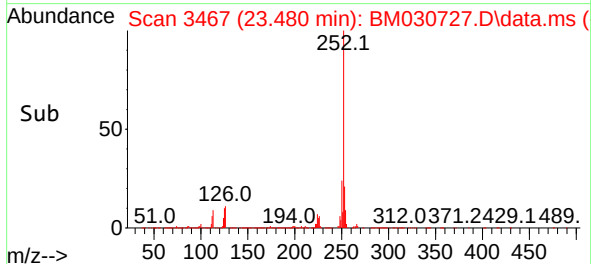
Instrument :  
BNA\_M  
ClientSampled :  
BGDX3



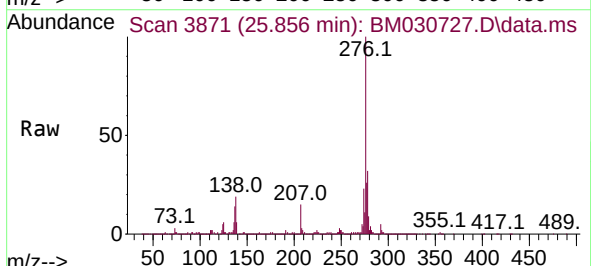
Tgt Ion:252 Resp: 2252199  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.5 26.3  
125 10.0 8.6 13.0

Manual Integrations  
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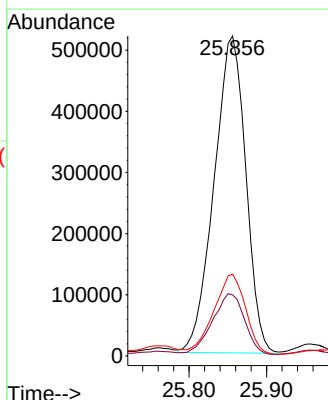
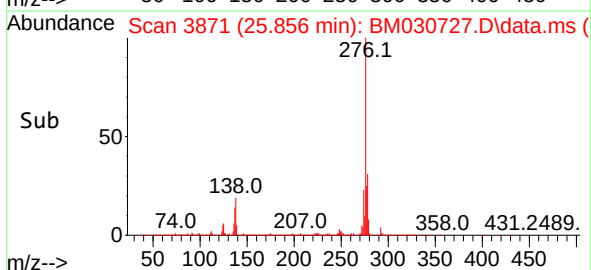
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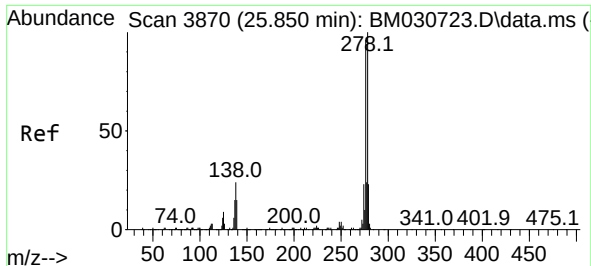


#94  
Indeno(1,2,3-cd)pyrene  
Concen: 37.463 ng/ul  
RT: 25.856 min Scan# 3871  
Delta R.T. 0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



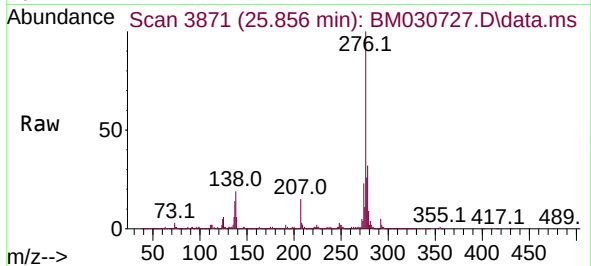
Tgt Ion:276 Resp: 1474813  
Ion Ratio Lower Upper  
276 100  
138 19.1 19.5 29.3#  
277 25.5 19.6 29.4





#95  
Dibenzo(a,h)anthracene  
Concen: 15.020 ng/ul  
RT: 25.856 min Scan# 3871  
Delta R.T. -0.000 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14

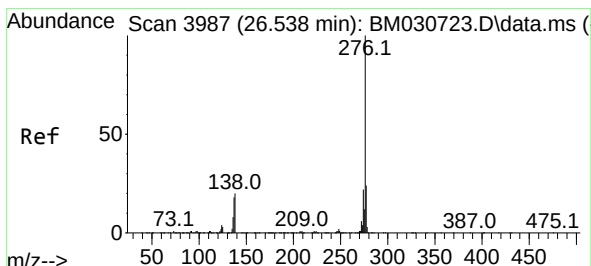
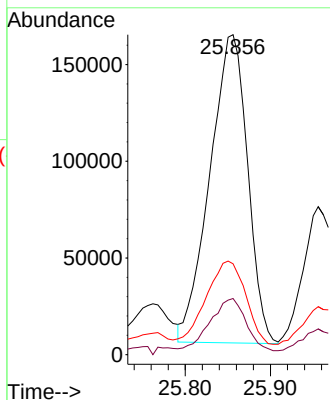
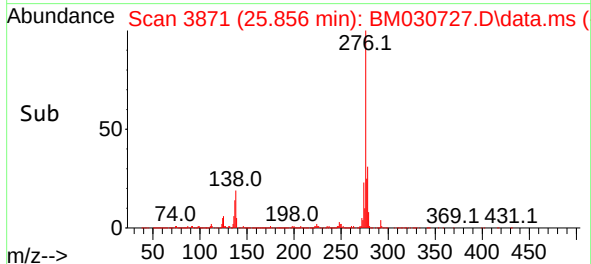
Instrument :  
BNA\_M  
ClientSampled :  
BGDX3



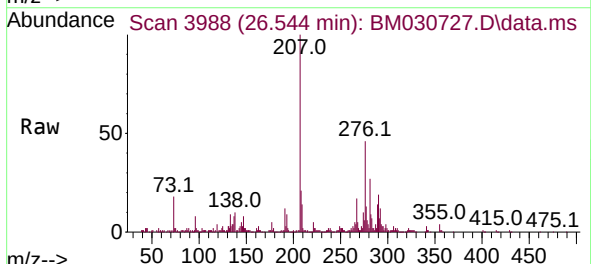
Tgt Ion:278 Resp: 490164  
Ion Ratio Lower Upper  
278 100  
139 17.6 12.8 19.2  
279 28.4 19.1 28.7

Manual Integrations  
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#96  
Benzo(g,h,i)perylene  
Concen: 3.386 ng/ul  
RT: 26.544 min Scan# 3988  
Delta R.T. -0.006 min  
Lab File: BM030727.D  
Acq: 01 Jul 2021 05:14



Tgt Ion:276 Resp: 111220  
Ion Ratio Lower Upper  
276 100  
138 20.6 16.5 24.7  
277 28.3 18.5 27.7#

