

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080221\  
 Data File : BM031455.D  
 Acq On : 04 Aug 2021 19:48  
 Operator : CG/JU  
 Sample : M3141-18  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BGER9

Manual Integrations  
 APPROVED

mohammad  
 8/5/2021 5:04:42 PM

Quant Time: Aug 05 01:01:45 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM072821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 04 12:17:22 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.594  | 152  | 1573     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.352 | 136  | 6085     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.224 | 164  | 3959     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.971 | 188  | 7800     | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.164 | 240  | 7146     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.321 | 264  | 7199     | 0.400 | ng/ul  | # 0.00   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.189  | 96   | 8112     | 4.643 | ng/ul  | -0.01    |
| 6) 2-Methylnaphthalene-d10  | 11.948 | 152  | 3298     | 0.322 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.005 | 212  | 7057     | 0.296 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.401 | 128  | 1439     | 0.079 | ng/ul# | 92       |
| 7) 2-Methylnaphthalene      | 12.025 | 142  | 291      | 0.023 | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.945 | 152  | 370      | 0.022 | ng/ul# | 62       |
| 11) Acenaphthene            | 14.284 | 153  | 496      | 0.035 | ng/ul  | 96       |
| 12) Fluorene                | 15.278 | 166  | 582      | 0.036 | ng/ul# | 96       |
| 15) Phenanthrene            | 17.013 | 178  | 4037     | 0.163 | ng/ul  | 97       |
| 16) Anthracene              | 17.103 | 178  | 2365     | 0.102 | ng/ul# | 93       |
| 19) Fluoranthene            | 19.035 | 202  | 35837    | 1.174 | ng/ul  | 100      |
| 20) Pyrene                  | 19.397 | 202  | 36660    | 1.185 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.149 | 228  | 30422    | 1.054 | ng/ul  | 96       |
| 22) Chrysene                | 21.200 | 228  | 26829    | 0.899 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 22.684 | 252  | 33815m   | 1.043 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.720 | 252  | 12244m   | 0.365 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.229 | 252  | 29969    | 1.055 | ng/ul  | 93       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.456 | 276  | 15351    | 0.418 | ng/ul# | 99       |
| 28) Dibenzo(a,h)anthracene  | 25.468 | 278  | 4345     | 0.147 | ng/ul# | 87       |
| 29) Benzo(g,h,i)perylene    | 26.108 | 276  | 13488    | 0.431 | ng/ul  | 97       |
| -----                       |        |      |          |       |        |          |

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

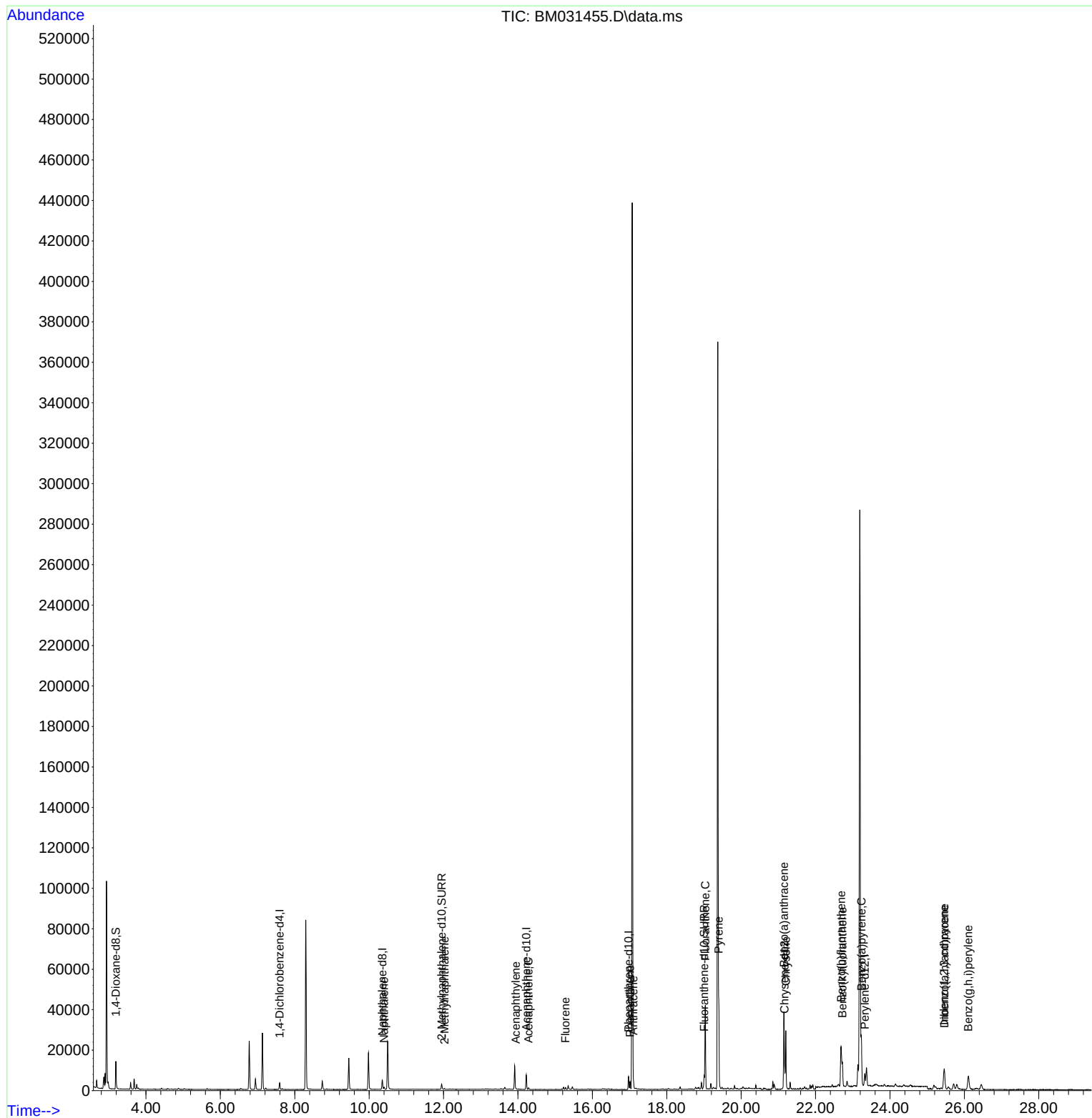
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Data File : BM031455.D  
Acq On : 04 Aug 2021 19:48  
Operator : CG/JU  
Sample : M3141-18  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

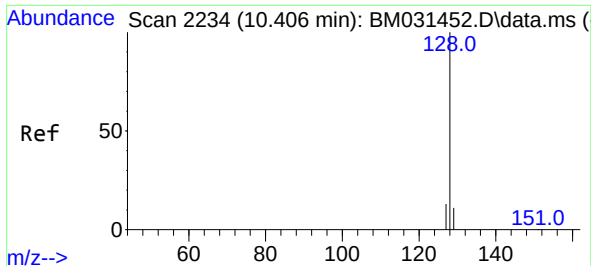
Instrument :  
BNA\_M  
ClientSampleId :  
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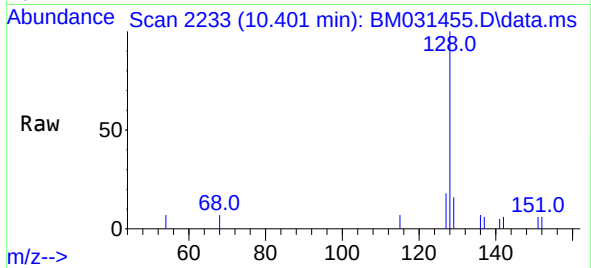
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Quant Time: Aug 05 01:01:45 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM072821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 04 12:17:22 2021  
Response via : Initial Calibration

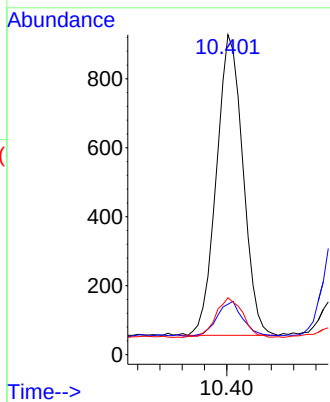
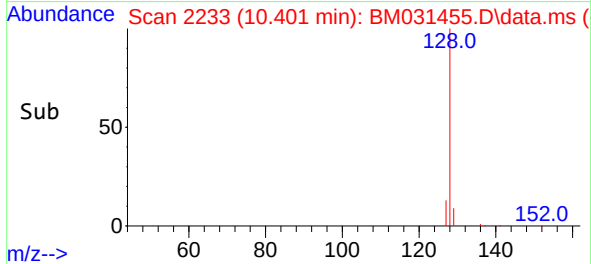




#5  
Naphthalene  
Concen: 0.079 ng/ul  
RT: 10.401 min Scan# 2233  
Delta R.T. -0.004 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48



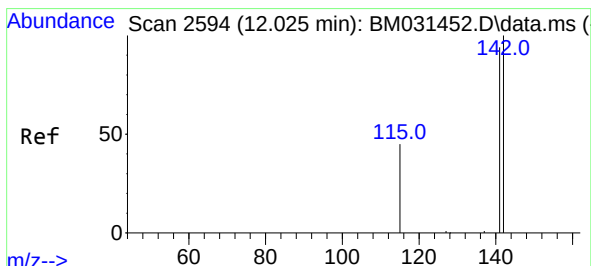
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Ion Ratio Lower Upper  
128 100  
129 15.7 10.0 15.0#  
127 17.8 11.6 17.4#



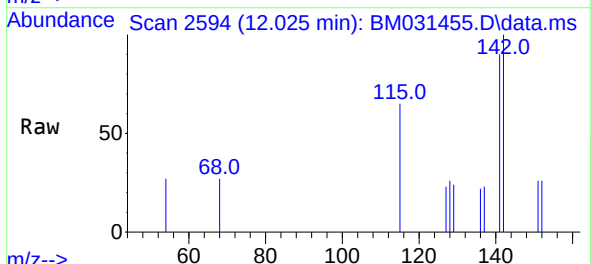
Instrument :  
BNA\_M  
ClientSampled :  
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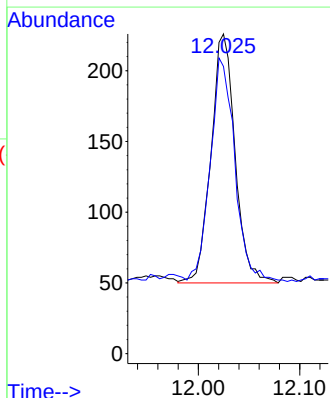
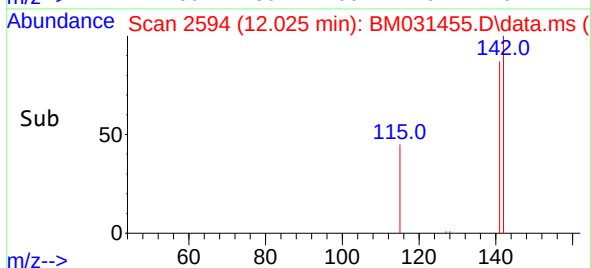
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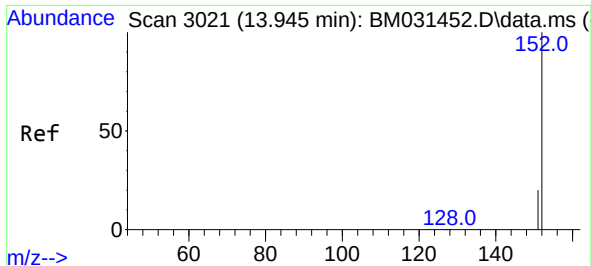


#7  
2-Methylnaphthalene  
Concen: 0.023 ng/ul  
RT: 12.025 min Scan# 2594  
Delta R.T. -0.004 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

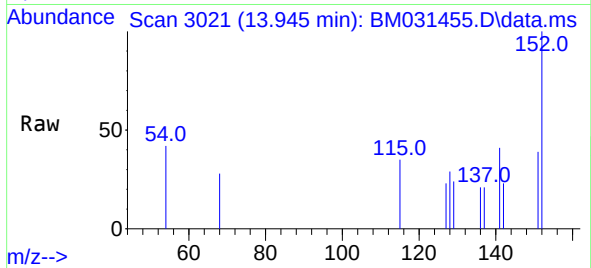


Tgt Ion:142 Resp: 291  
Ion Ratio Lower Upper  
142 100  
141 91.4 71.4 107.0

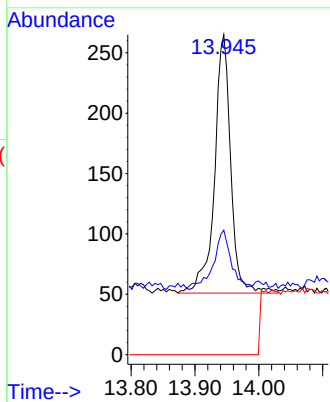
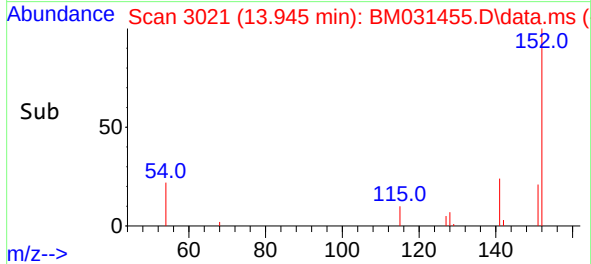




#10  
Acenaphthylene  
Concen: 0.022 ng/ul  
RT: 13.945 min Scan# 3021  
Delta R.T. -0.004 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48



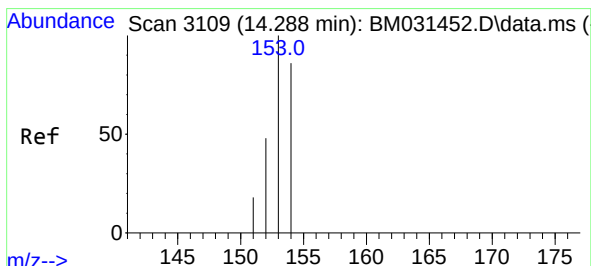
Tgt Ion:152 Resp: 370  
Ion Ratio Lower Upper  
152 100  
151 38.9 16.9 25.3#  
153 0.0 0.0 0.0



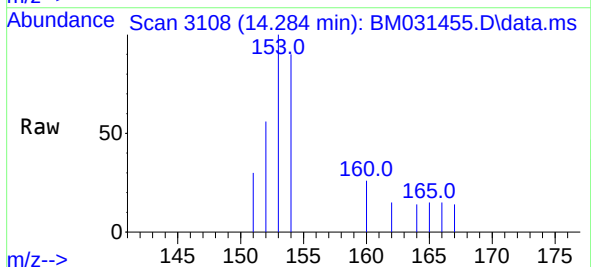
Instrument :  
BNA\_M  
ClientSampled :  
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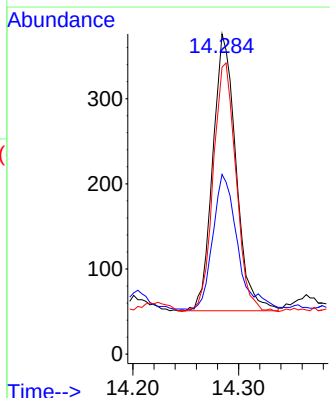
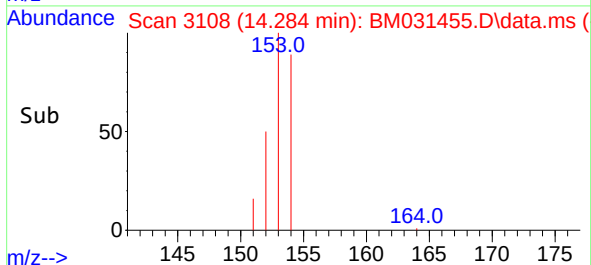
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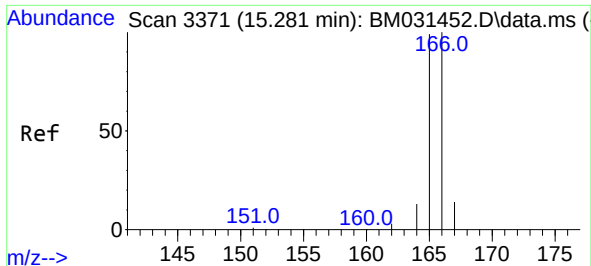


#11  
Acenaphthene  
Concen: 0.035 ng/ul  
RT: 14.284 min Scan# 3108  
Delta R.T. -0.004 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48



Tgt Ion:153 Resp: 496  
Ion Ratio Lower Upper  
153 100  
152 56.1 40.7 61.1  
154 89.6 70.2 105.2





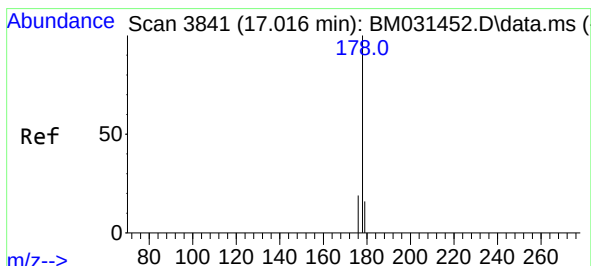
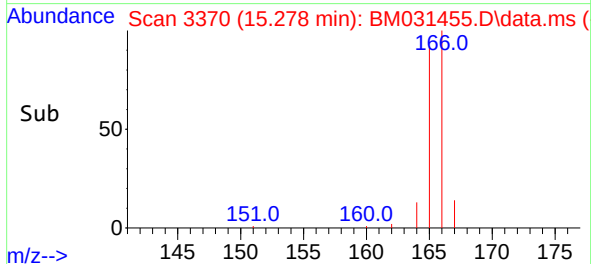
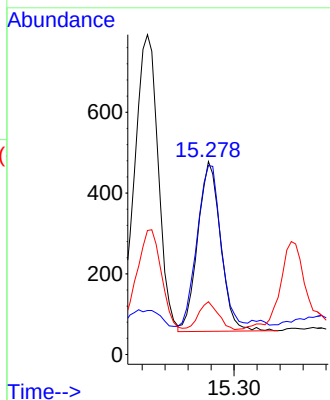
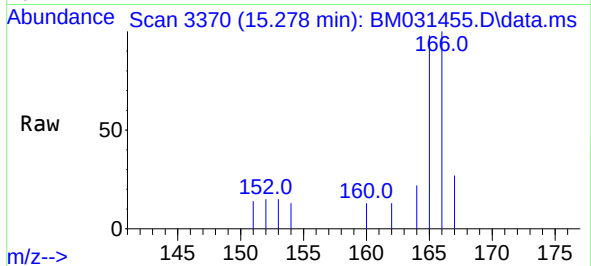
#12  
Fluorene  
Concen: 0.036 ng/ul  
RT: 15.278 min Scan# 3370  
Delta R.T. -0.004 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

Tgt Ion:166 Resp: 582  
Ion Ratio Lower Upper  
166 100  
165 97.9 78.0 117.0  
167 27.4 12.0 18.0#

Instrument :  
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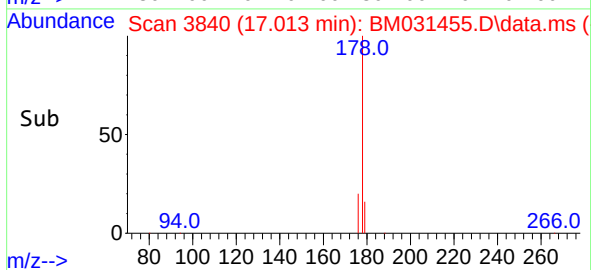
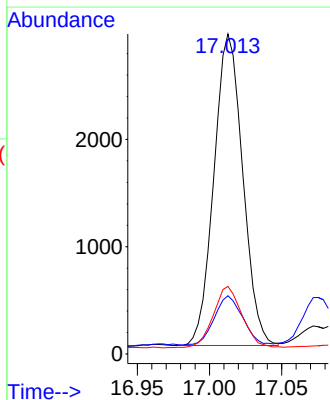
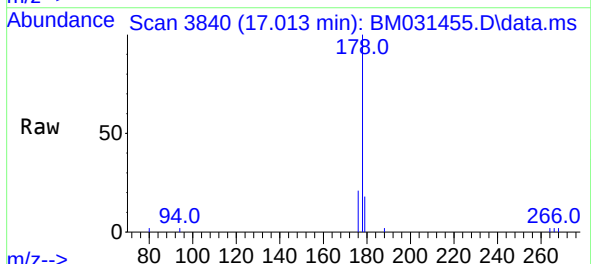
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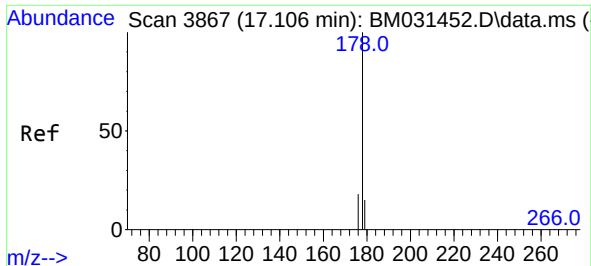
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#15  
Phenanthrene  
Concen: 0.163 ng/ul  
RT: 17.013 min Scan# 3840  
Delta R.T. -0.003 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

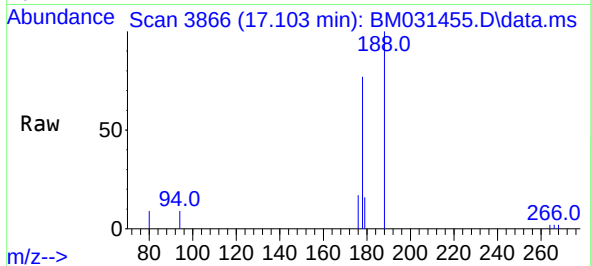
Tgt Ion:178 Resp: 4037  
Ion Ratio Lower Upper  
178 100  
179 18.2 13.3 19.9  
176 21.1 16.2 24.4





#16  
 Anthracene  
 Concen: 0.102 ng/ul  
 RT: 17.103 min Scan# 3866  
 Delta R.T. -0.007 min  
 Lab File: BM031455.D  
 Acq: 04 Aug 2021 19:48

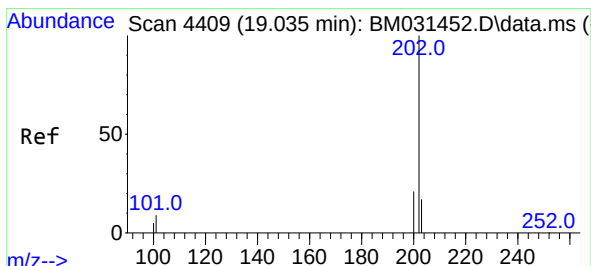
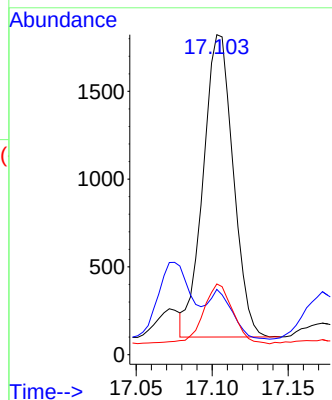
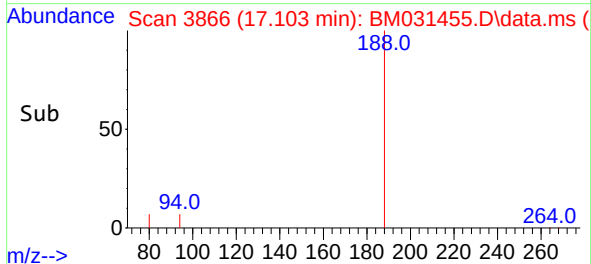
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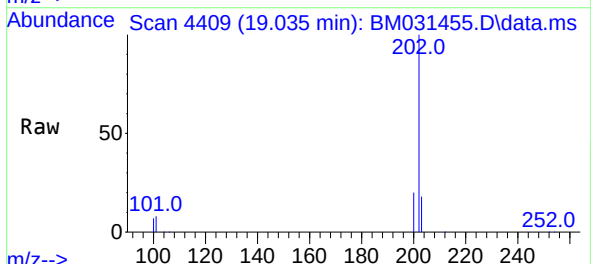
Tgt Ion:178 Resp: 2365  
 Ion Ratio Lower Upper  
 178 100  
 179 20.4 13.0 19.6#  
 176 22.1 15.6 23.4

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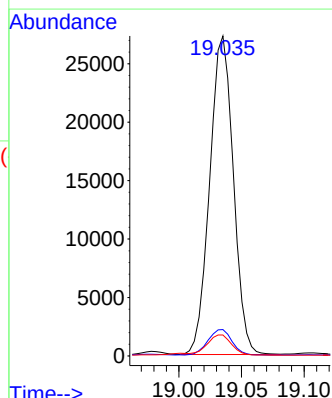
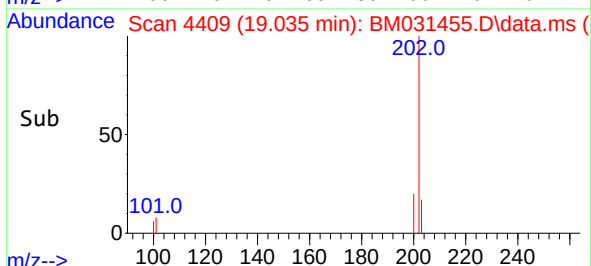
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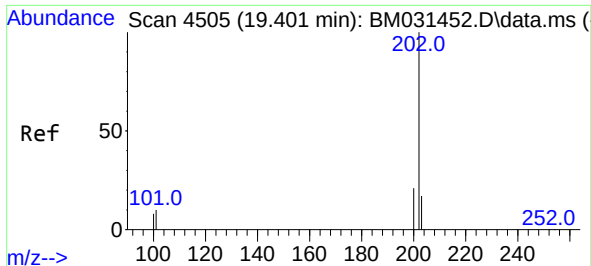


#19  
 Fluoranthene  
 Concen: 1.174 ng/ul  
 RT: 19.035 min Scan# 4409  
 Delta R.T. -0.004 min  
 Lab File: BM031455.D  
 Acq: 04 Aug 2021 19:48



Tgt Ion:202 Resp: 35837  
 Ion Ratio Lower Upper  
 202 100  
 101 8.2 6.6 10.0  
 100 6.5 5.4 8.0





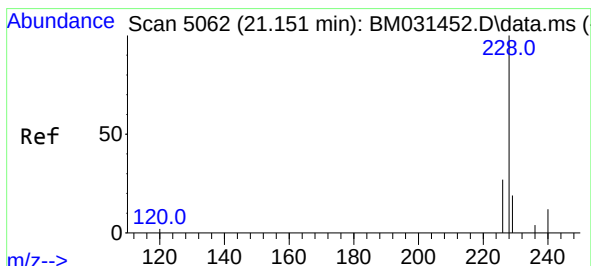
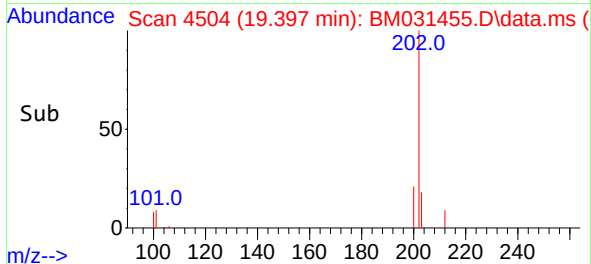
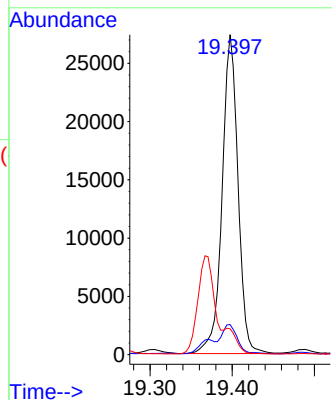
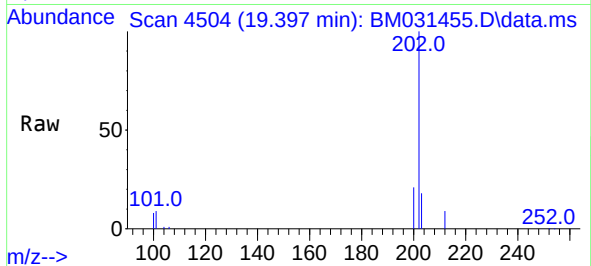
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Pyrene  
Concen: 1.185 ng/ul  
RT: 19.397 min Scan# 4504  
Delta R.T. -0.004 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

Tgt Ion:202 Resp: 36660  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.8 11.6  
100 8.1 6.6 10.0

Instrument :  
BNA\_M  
ClientSampled :  
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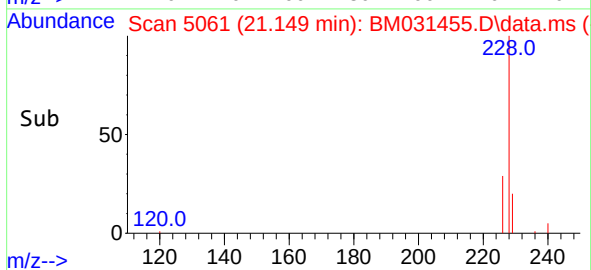
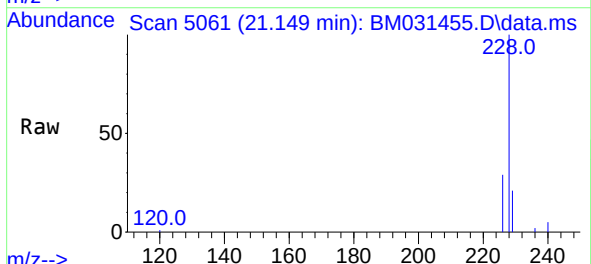
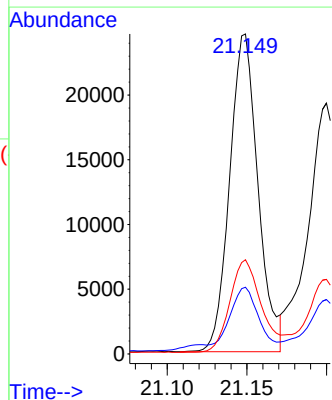
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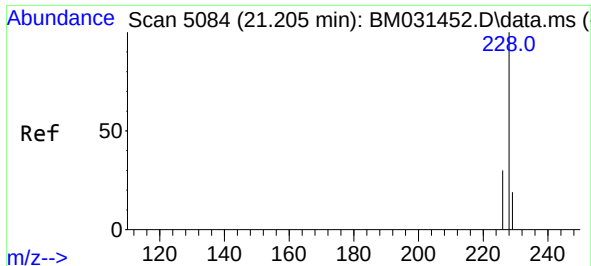
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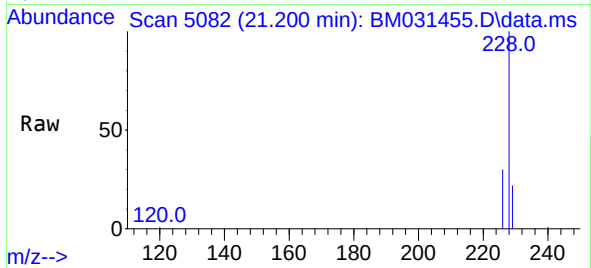
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Benzo(a)anthracene  
Concen: 1.054 ng/ul  
RT: 21.149 min Scan# 5061  
Delta R.T. -0.005 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

Tgt Ion:228 Resp: 30422  
Ion Ratio Lower Upper  
228 100  
229 20.8 15.6 23.4  
226 29.4 21.7 32.5

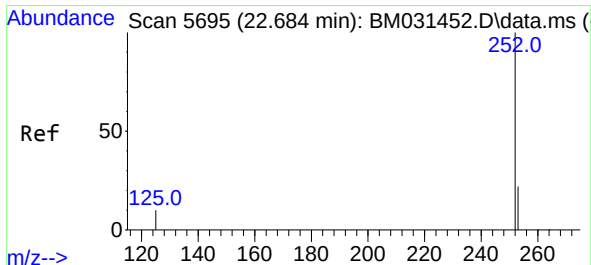
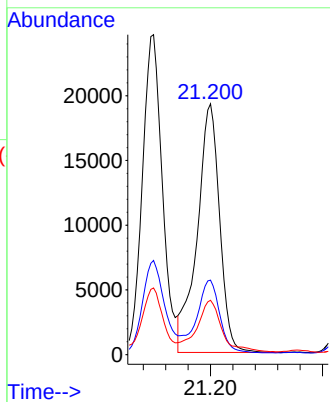
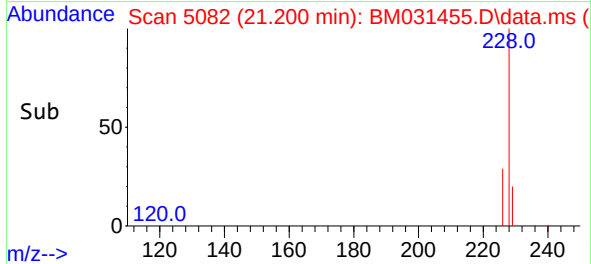




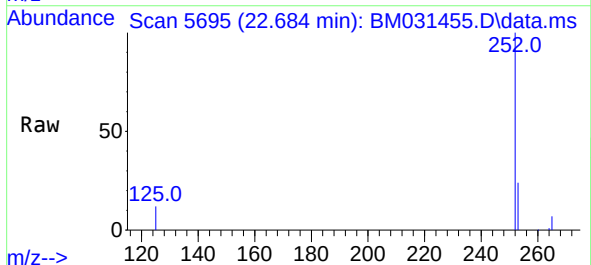
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Chrysene  
Concen: 0.899 ng/ul  
RT: 21.200 min Scan# 5082  
Delta R.T. -0.005 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48



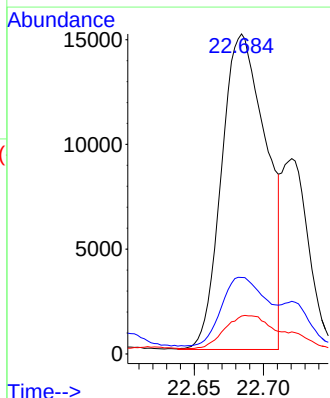
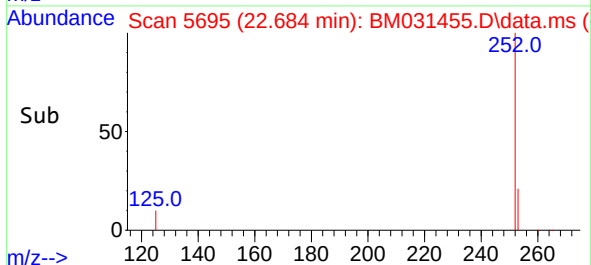
Tgt Ion:228 Resp: 26829  
Ion Ratio Lower Upper  
228 100  
226 29.7 24.7 37.1  
229 21.7 16.2 24.2



#24  
Benzo(b)fluoranthene  
Concen: 1.043 ng/ul m  
RT: 22.684 min Scan# 5695  
Delta R.T. -0.002 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48



Tgt Ion:252 Resp: 33815  
Ion Ratio Lower Upper  
252 100  
253 23.9 0.0 53.0  
125 11.9 0.0 22.8

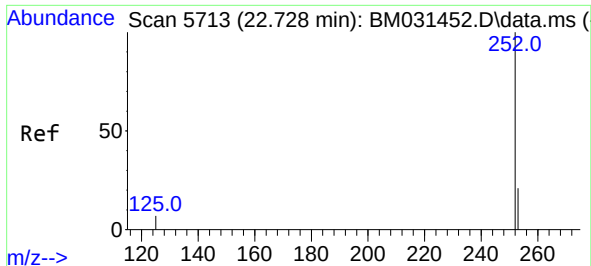


Instrument :  
BNA\_M  
ClientSampled :  
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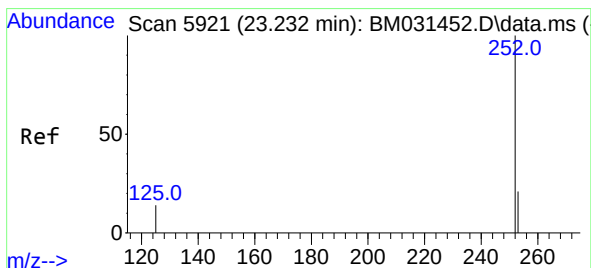
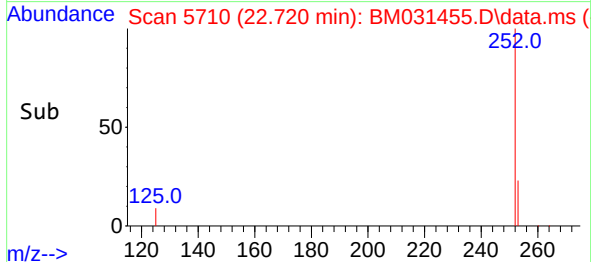
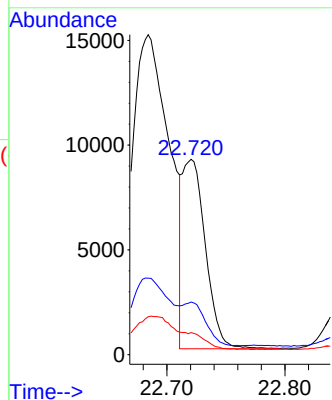
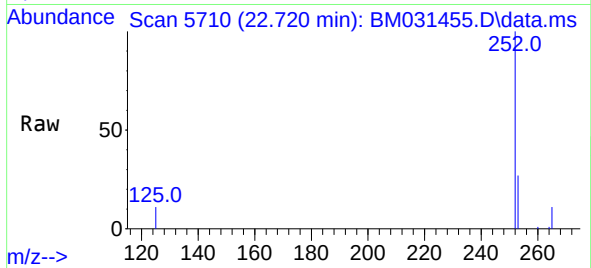
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Benzo(k)fluoranthene  
Concen: 0.365 ng/ul m  
RT: 22.720 min Scan# 5710  
Delta R.T. -0.007 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 12244     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 26.9  | 21.3 31.9 |
| 125         | 11.3  | 8.8 13.2  |

Instrument :  
BNA\_M  
ClientSampled :  
BGER9

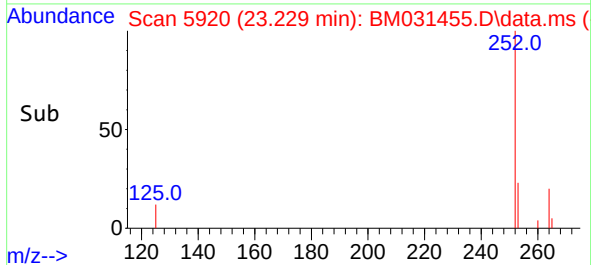
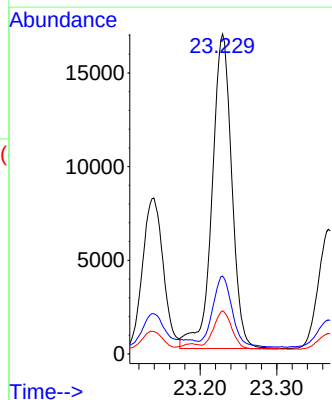
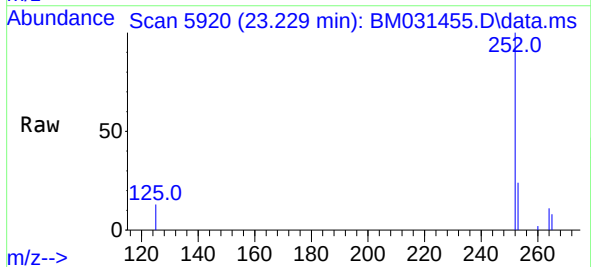
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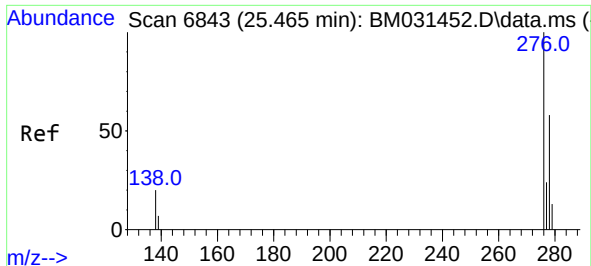
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#26  
Benzo(a)pyrene  
Concen: 1.055 ng/ul  
RT: 23.229 min Scan# 5920  
Delta R.T. -0.005 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 29969     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 24.4  | 22.4 33.6 |
| 125         | 13.5  | 13.0 19.4 |





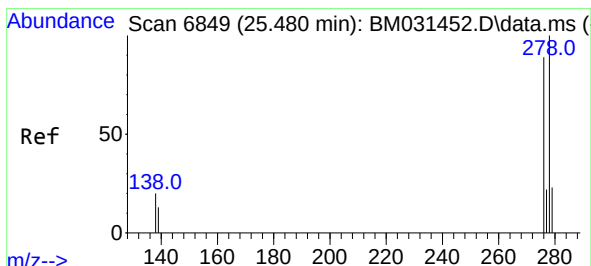
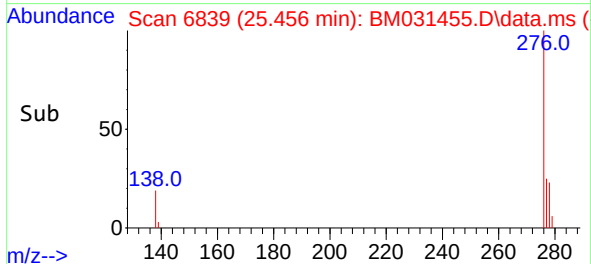
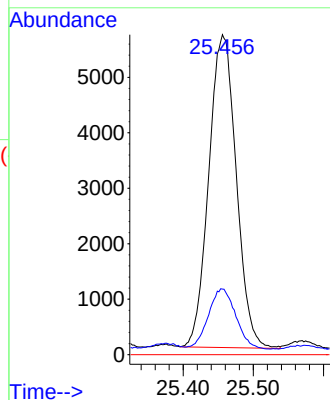
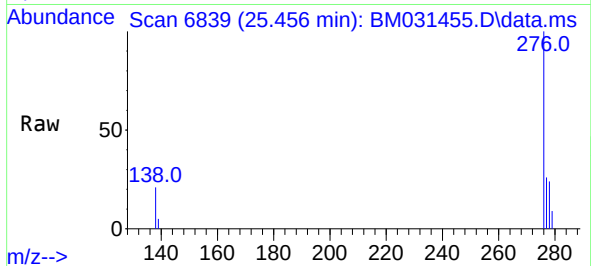
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.418 ng/ul  
RT: 25.456 min Scan# 6839  
Delta R.T. -0.009 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

Tgt Ion: 276 Resp: 15351  
Ion Ratio Lower Upper  
276 100  
138 19.3 15.8 23.8  
227 0.0 0.0 0.0

Instrument :  
BNA\_M  
ClientSampleId :  
BGER9

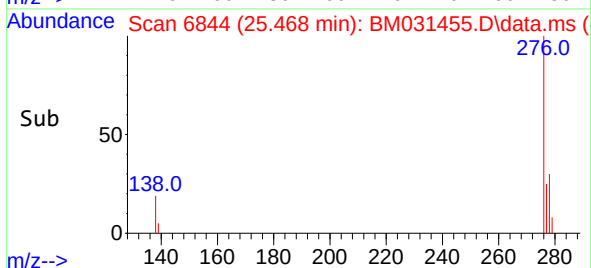
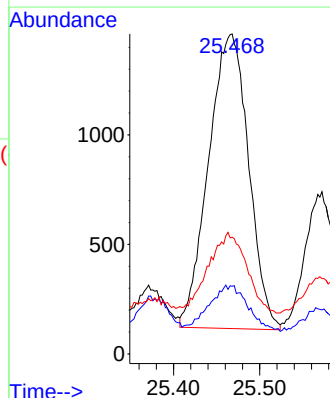
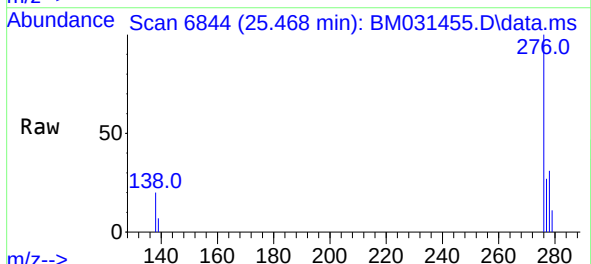
Manual Integrations  
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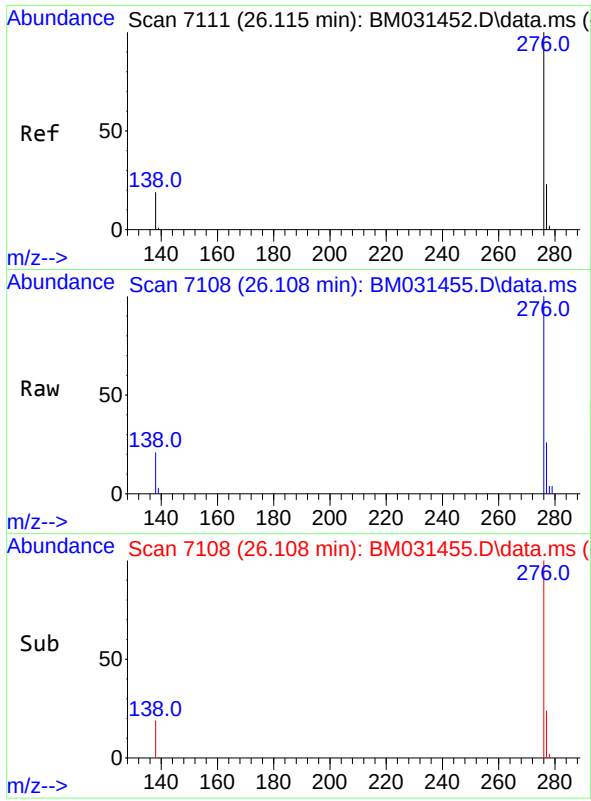
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#28  
Dibenzo(a,h)anthracene  
Concen: 0.147 ng/ul  
RT: 25.468 min Scan# 6844  
Delta R.T. -0.017 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

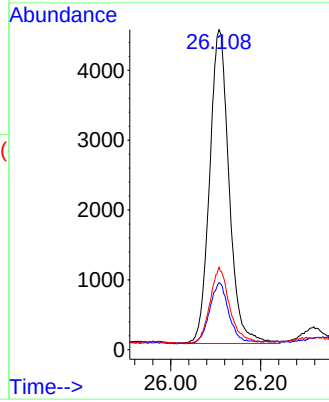
Tgt Ion: 278 Resp: 4345  
Ion Ratio Lower Upper  
278 100  
139 21.1 13.3 19.9#  
279 36.5 22.8 34.2#





#29  
Benzo(g,h,i)perylene  
Concen: 0.431 ng/ul  
RT: 26.108 min Scan# 7108  
Delta R.T. -0.012 min  
Lab File: BM031455.D  
Acq: 04 Aug 2021 19:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 13488 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 20.9  | 15.4  | 23.2  |
| 277      | 25.7  | 19.9  | 29.9  |



Instrument :  
BNA\_M  
ClientSampleId :  
BGER9

Manual Integrations  
APPROVED

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