

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080221\  
 Data File : BM031447.D  
 Acq On : 04 Aug 2021 14:52  
 Operator : CG/JU  
 Sample : M3123-04RE  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0067RE

Manual Integrations  
 APPROVED

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 8/5/2021 5:04:37 PM

Quant Time: Aug 04 18:16:49 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   | 7.597  | 152  | 1334     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.352 | 136  | 5290     | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.209 | 164  | 7163     | 0.400  | ng/ul  | #-0.02   |
| 13) Phenanthrene-d10        | 16.971 | 188  | 7631     | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.166 | 240  | 6282     | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.324 | 264  | 6001     | 0.400  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.193  | 96   | 2524     | 1.704  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.948 | 152  | 1399     | 0.157  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.005 | 212  | 3495     | 0.167  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.401 | 128  | 306934   | 19.478 | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.020 | 142  | 308873   | 28.691 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.245 | 142  | 149058   | 14.013 | ng/ul  | 100      |
| 10) Acenaphthylene          | 13.950 | 152  | 2758     | 0.090  | ng/ul# | 63       |
| 12) Fluorene                | 15.278 | 166  | 5353     | 0.181  | ng/ul# | 52       |
| 15) Phenanthrene            | 17.016 | 178  | 636928   | 26.285 | ng/ul  | 97       |
| 16) Anthracene              | 17.103 | 178  | 20766    | 0.915  | ng/ul  | 99       |
| 19) Fluoranthene            | 19.035 | 202  | 99466    | 3.708  | ng/ul# | 95       |
| 20) Pyrene                  | 19.401 | 202  | 72657    | 2.670  | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.149 | 228  | 62235m   | 2.453  | ng/ul  |          |
| 22) Chrysene                | 21.202 | 228  | 181137   | 6.902  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 22.684 | 252  | 37314m   | 1.380  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.721 | 252  | 3141m    | 0.112  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.232 | 252  | 5176m    | 0.219  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.458 | 276  | 2833     | 0.093  | ng/ul# | 70       |
| 28) Dibenzo(a,h)anthracene  | 25.468 | 278  | 4272     | 0.173  | ng/ul# | 50       |
| -----                       |        |      |          |        |        |          |

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

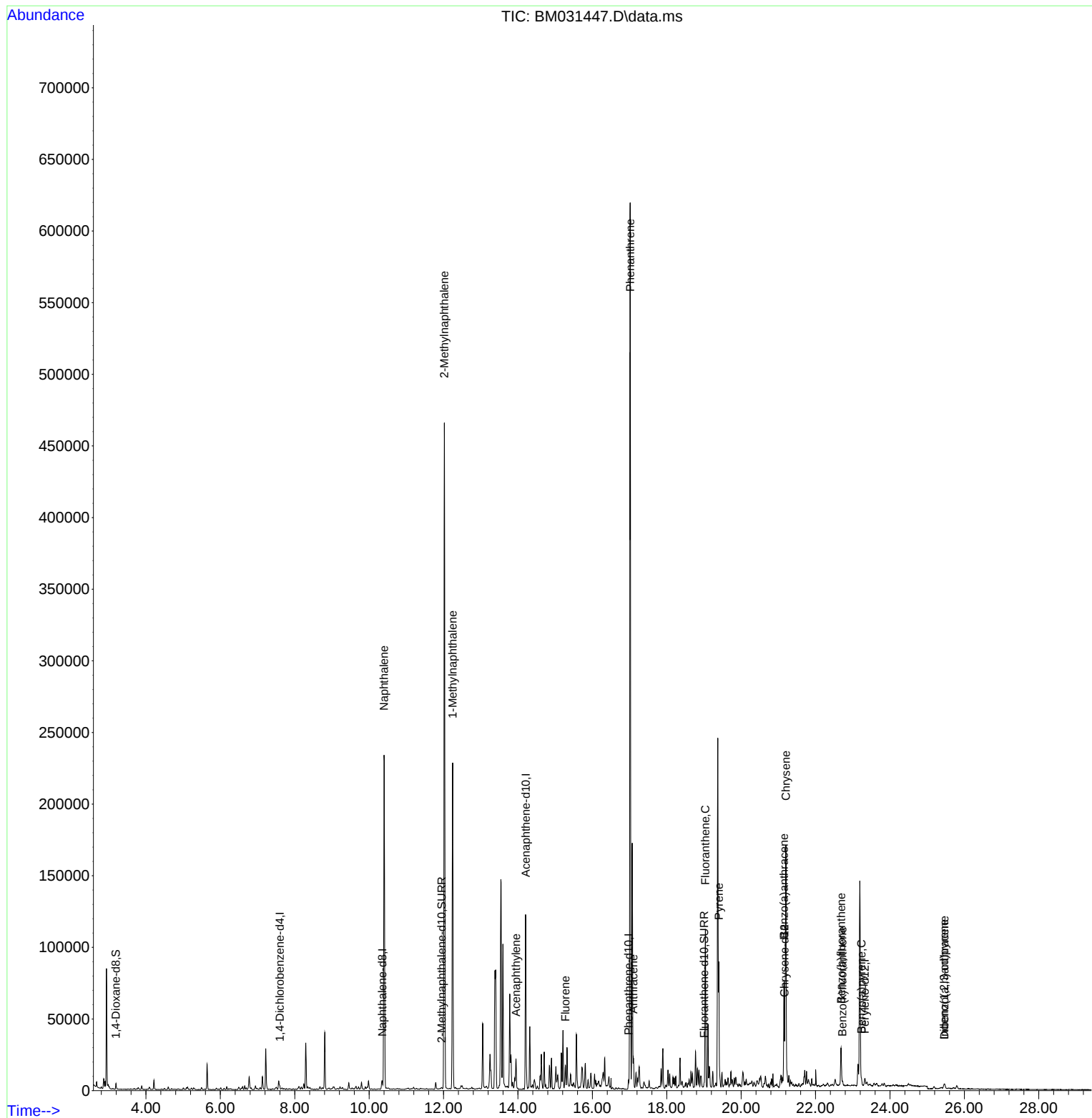
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Data File : BM031447.D  
Acq On : 04 Aug 2021 14:52  
Operator : CG/JU  
Sample : M3123-04RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

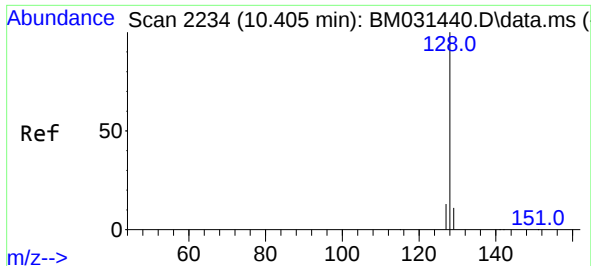
Instrument :  
BNA\_M  
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Quant Time: Aug 04 18:16:49 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM072821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 04 12:17:22 2021  
Response via : Initial Calibration





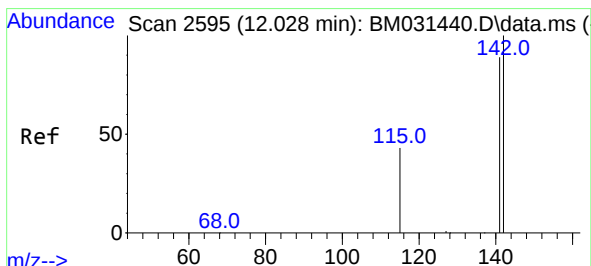
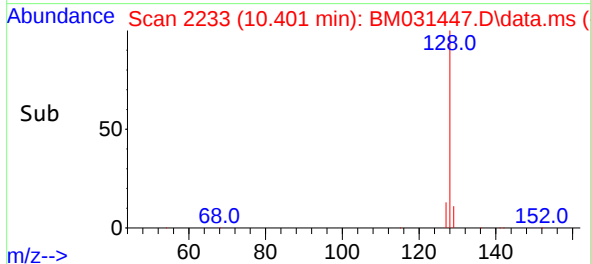
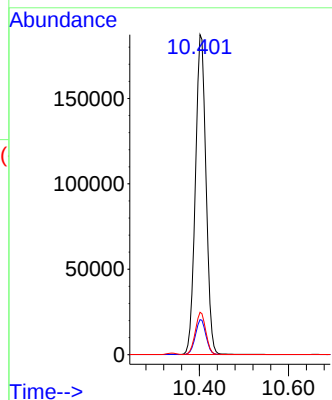
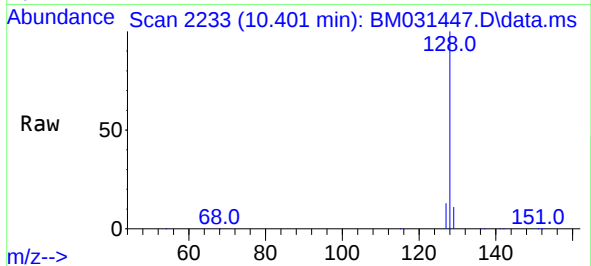
#5  
Naphthalene  
Concen: 19.478 ng/ul  
RT: 10.401 min Scan# 2233  
Delta R.T. -0.003 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

Tgt Ion:128 Resp: 306934  
Ion Ratio Lower Upper  
128 100  
129 11.0 10.0 15.0  
127 13.3 11.6 17.4

Instrument :  
BNA\_M  
ClientSampleId :  
C0067RE

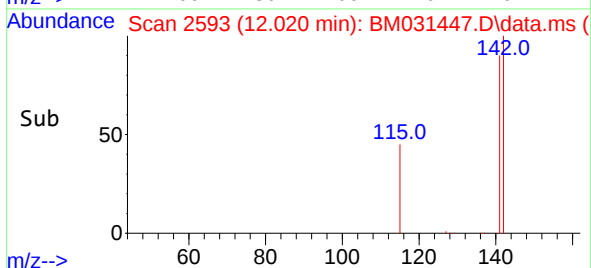
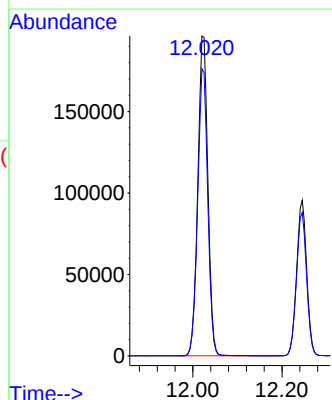
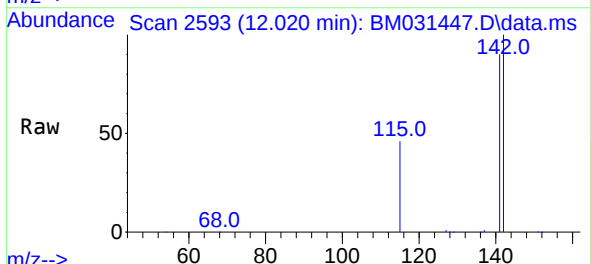
Manual Integrations  
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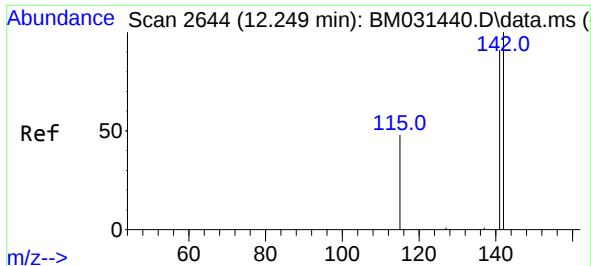
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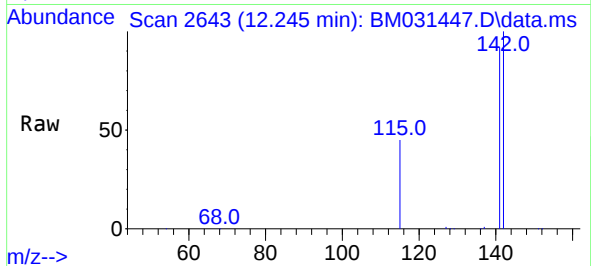
#7  
2-Methylnaphthalene  
Concen: 28.691 ng/ul  
RT: 12.020 min Scan# 2593  
Delta R.T. -0.008 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

Tgt Ion:142 Resp: 308873  
Ion Ratio Lower Upper  
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141 89.5 71.4 107.0

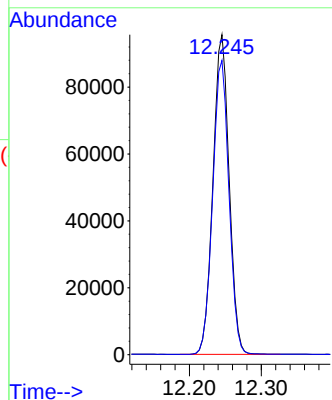




#8  
1-Methylnaphthalene  
Concen: 14.013 ng/ul  
RT: 12.245 min Scan# 2643  
Delta R.T. -0.003 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52



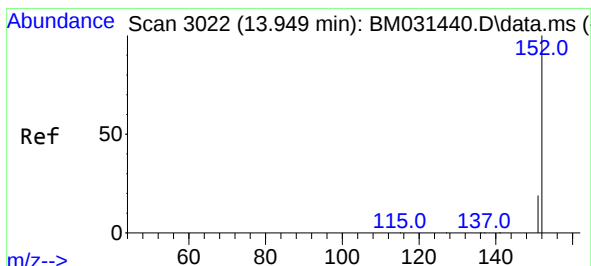
Tgt Ion:142 Resp: 149058  
Ion Ratio Lower Upper  
142 100  
141 92.6 74.1 111.1



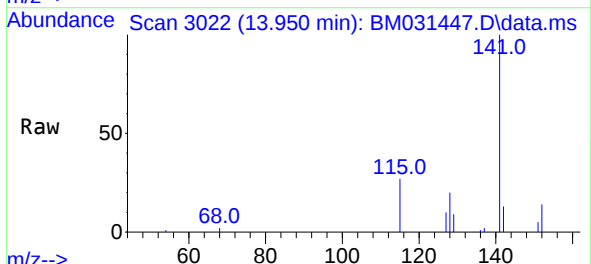
Instrument :  
BNA\_M  
ClientSampled :  
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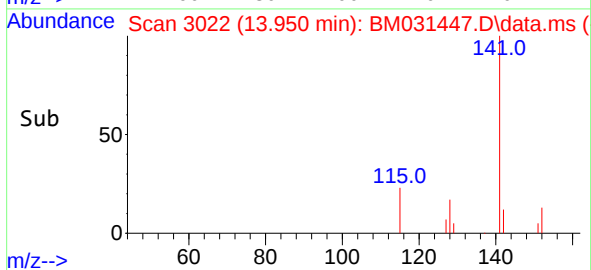
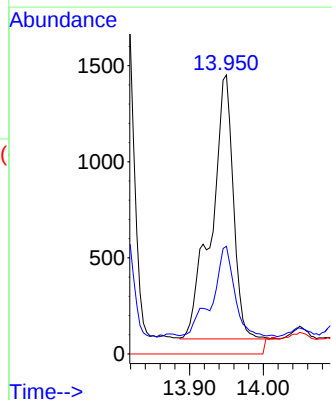
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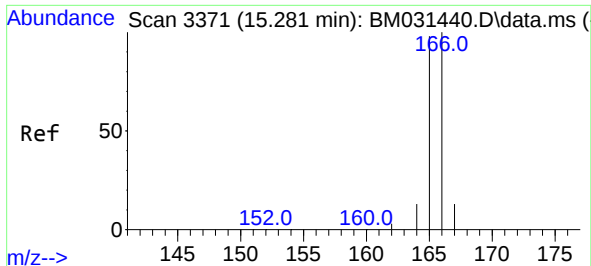


#10  
Acenaphthylene  
Concen: 0.090 ng/ul  
RT: 13.950 min Scan# 3022  
Delta R.T. 0.001 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52



Tgt Ion:152 Resp: 2758  
Ion Ratio Lower Upper  
152 100  
151 38.6 16.9 25.3#  
153 0.0 0.0 0.0





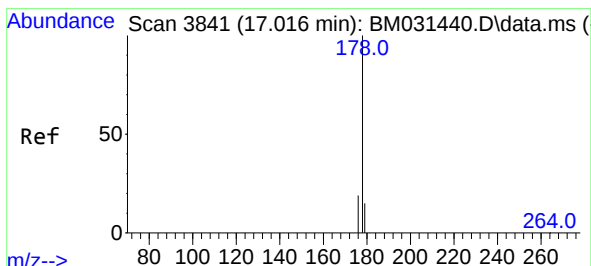
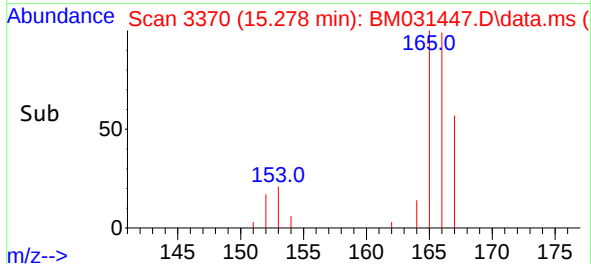
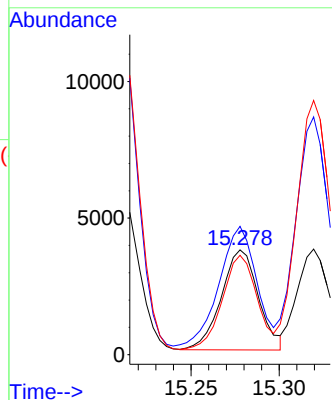
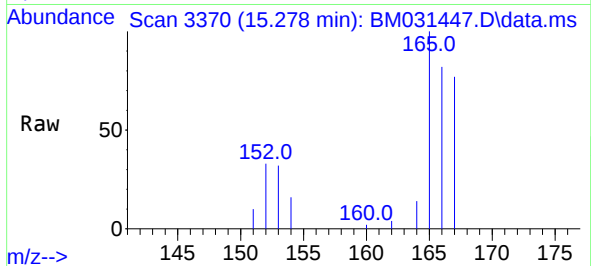
#12  
Fluorene  
Concen: 0.181 ng/u1  
RT: 15.278 min Scan# 3370  
Delta R.T. -0.003 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

Tgt Ion:166 Resp: 5353  
Ion Ratio Lower Upper  
166 100  
165 122.5 78.0 117.0#  
167 94.8 12.0 18.0#

Instrument :  
BNA\_M  
ClientSampled :  
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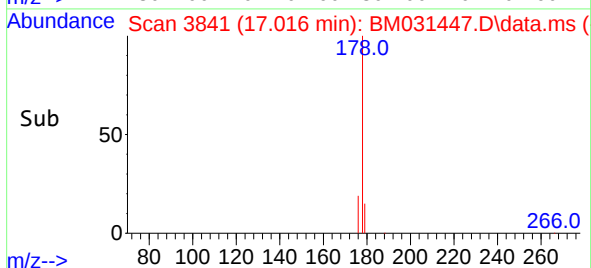
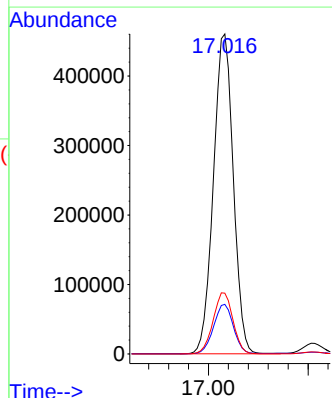
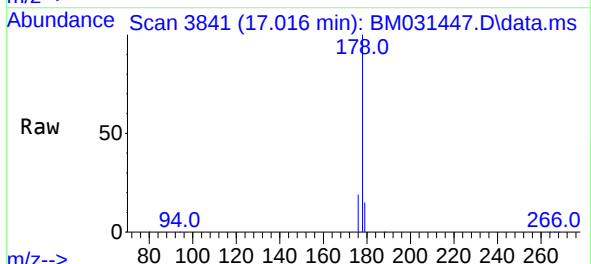
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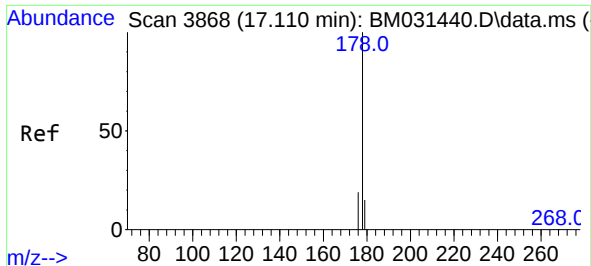
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#15  
Phenanthrene  
Concen: 26.285 ng/u1  
RT: 17.016 min Scan# 3841  
Delta R.T. 0.000 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

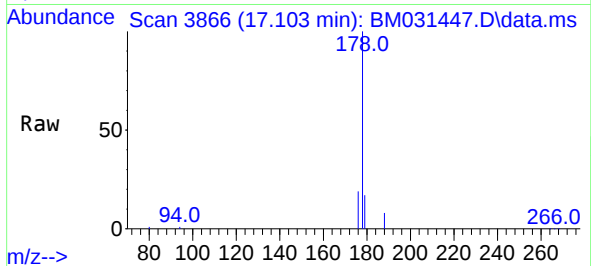
Tgt Ion:178 Resp: 636928  
Ion Ratio Lower Upper  
178 100  
179 15.5 13.3 19.9  
176 19.0 16.2 24.4





#16  
 Anthracene  
 Concen: 0.915 ng/ul  
 RT: 17.103 min Scan# 3866  
 Delta R.T. -0.007 min  
 Lab File: BM031447.D  
 Acq: 04 Aug 2021 14:52

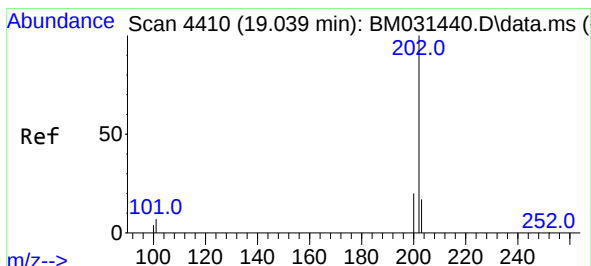
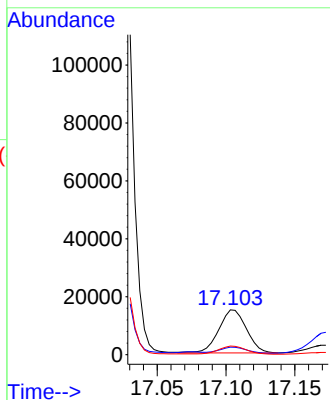
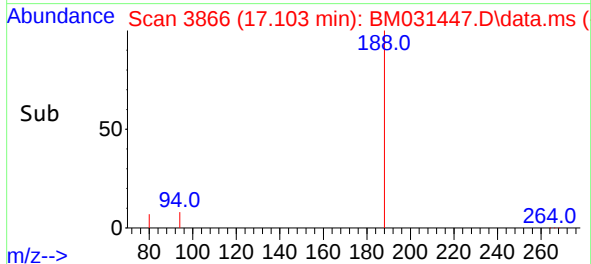
Instrument :  
 BNA\_M  
 ClientSampleId :  
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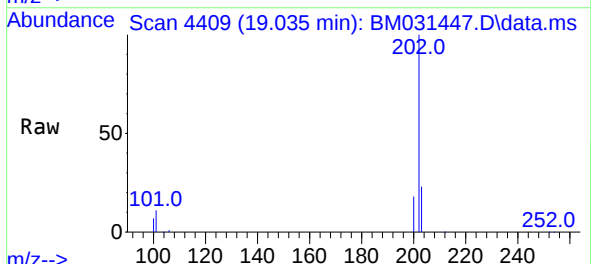
Tgt Ion:178 Resp: 20766  
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 178 100  
 179 16.7 13.0 19.6  
 176 19.4 15.6 23.4

Manual Integrations  
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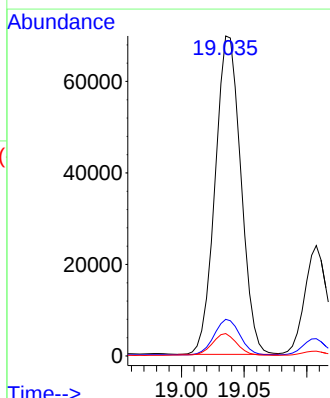
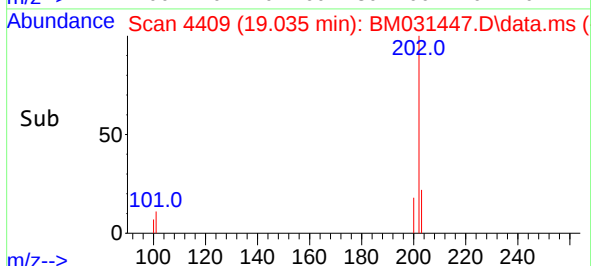
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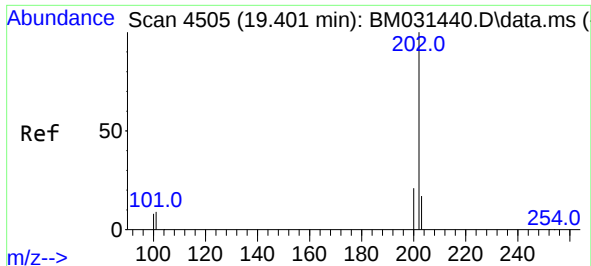


#19  
 Fluoranthene  
 Concen: 3.708 ng/ul  
 RT: 19.035 min Scan# 4409  
 Delta R.T. -0.003 min  
 Lab File: BM031447.D  
 Acq: 04 Aug 2021 14:52



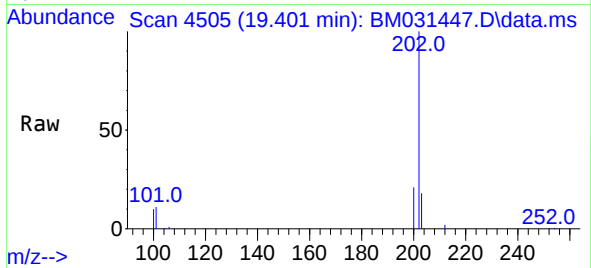
Tgt Ion:202 Resp: 99466  
 Ion Ratio Lower Upper  
 202 100  
 101 11.5 6.6 10.0#  
 100 7.0 5.4 8.0





#20  
Pyrene  
Concen: 2.670 ng/ul  
RT: 19.401 min Scan# 4505  
Delta R.T. 0.000 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

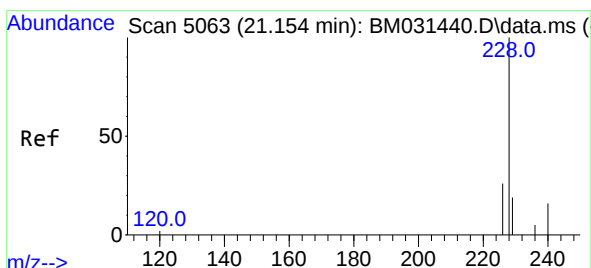
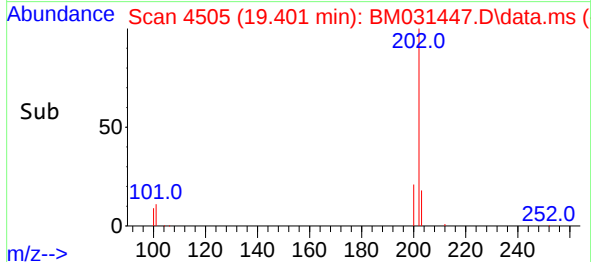
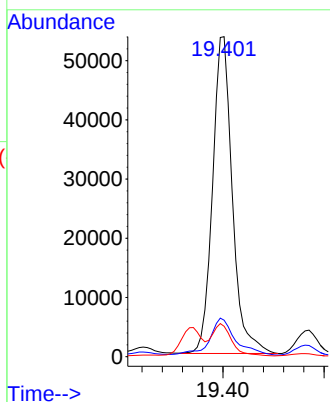
Instrument :  
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C0067RE



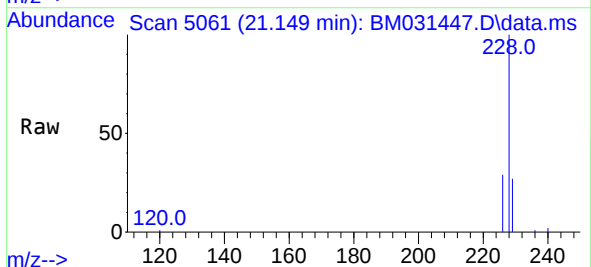
Tgt Ion:202 Resp: 72657  
Ion Ratio Lower Upper  
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101 11.4 7.8 11.6  
100 9.5 6.6 10.0

Manual Integrations  
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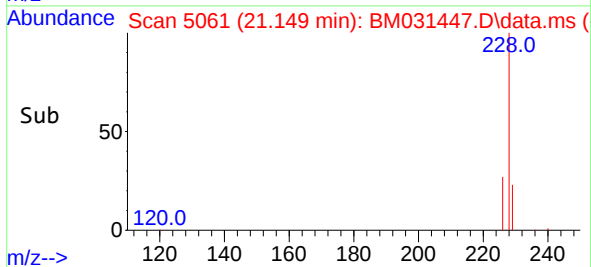
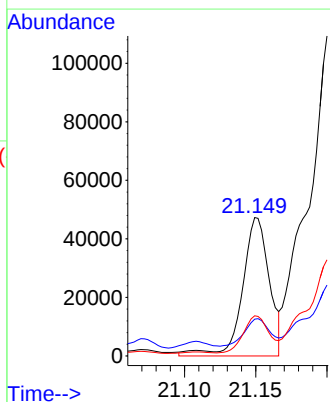
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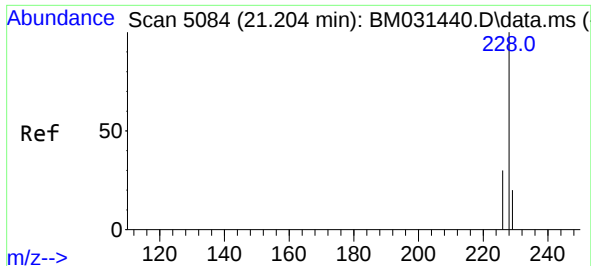


#21  
Benzo(a)anthracene  
Concen: 2.453 ng/ul m  
RT: 21.149 min Scan# 5061  
Delta R.T. -0.004 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

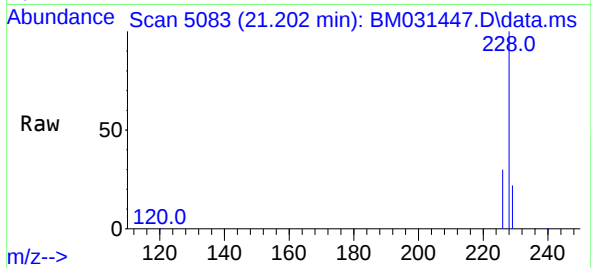


Tgt Ion:228 Resp: 62235  
Ion Ratio Lower Upper  
228 100  
229 26.6 15.6 23.4#  
226 29.0 21.7 32.5

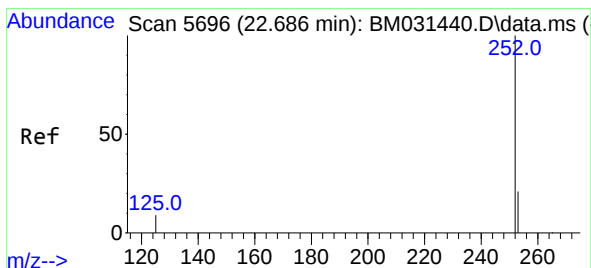
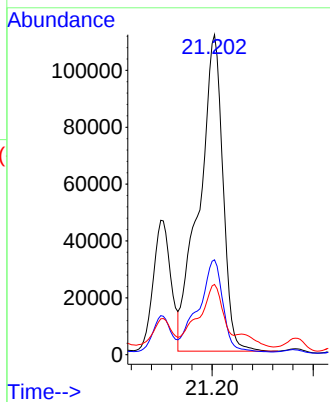
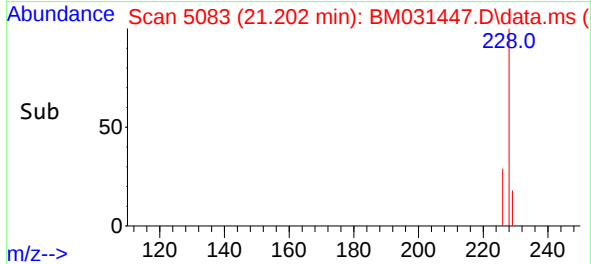




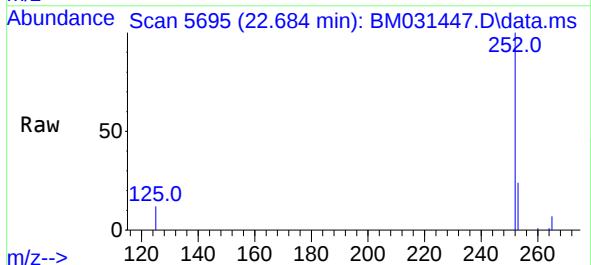
#22  
Chrysene  
Concen: 6.902 ng/ul  
RT: 21.202 min Scan# 5083  
Delta R.T. -0.002 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52



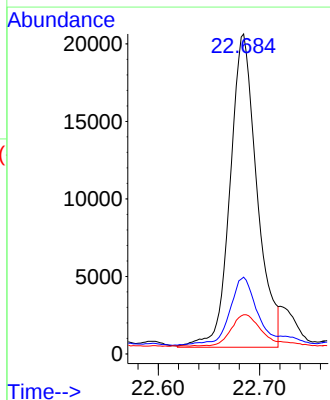
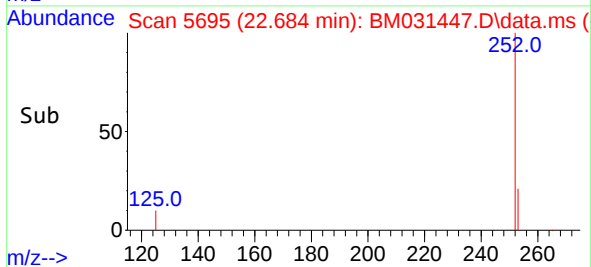
Tgt Ion:228 Resp: 181137  
Ion Ratio Lower Upper  
228 100  
226 29.7 24.7 37.1  
229 21.9 16.2 24.2



#24  
Benzo(b)fluoranthene  
Concen: 1.380 ng/ul m  
RT: 22.684 min Scan# 5695  
Delta R.T. -0.002 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52



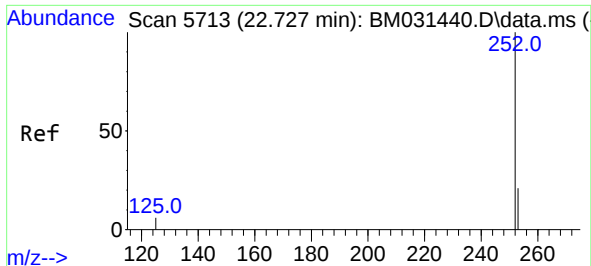
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Ion Ratio Lower Upper  
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253 24.0 0.0 53.0  
125 12.3 0.0 22.8



Instrument :  
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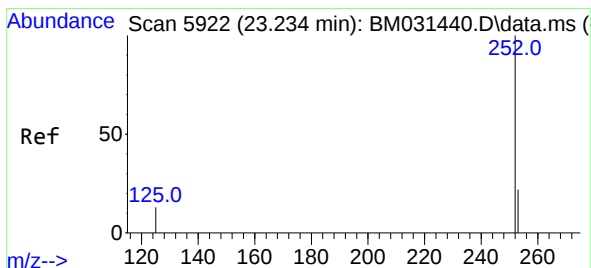
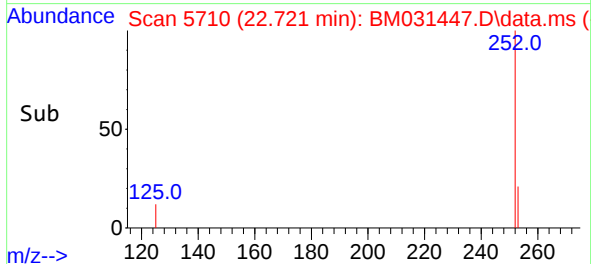
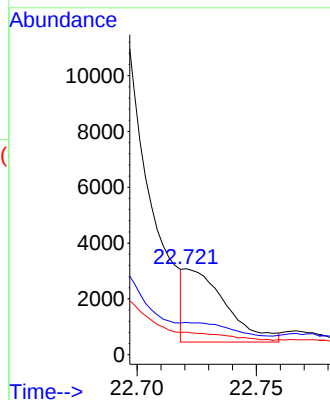
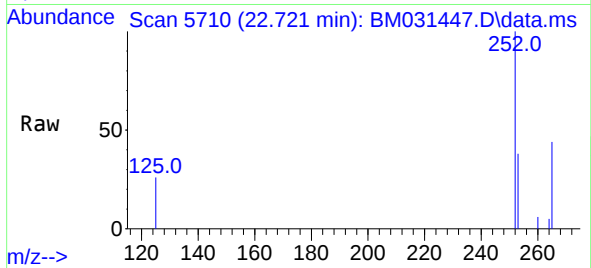
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Benzo(k)fluoranthene  
Concen: 0.112 ng/ul m  
RT: 22.721 min Scan# 5710  
Delta R.T. -0.007 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:252 | Resp: | 3141       |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 37.7  | 21.3 31.9# |
| 125         | 26.3  | 8.8 13.2#  |

Instrument :  
BNA\_M  
ClientSampleId :  
C0067RE

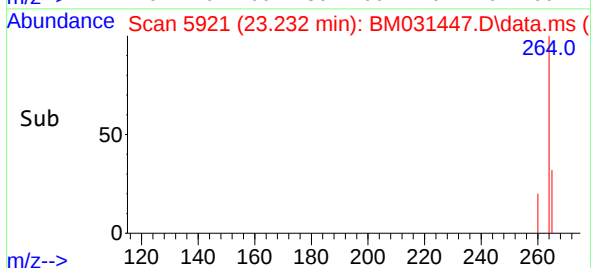
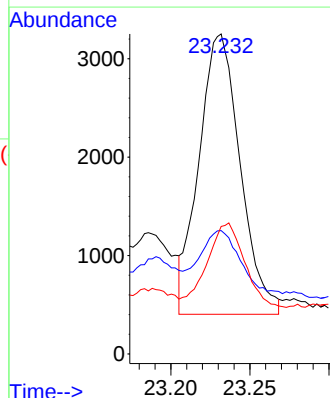
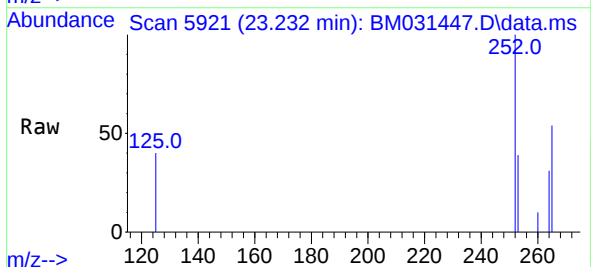
Manual Integrations  
APPROVED

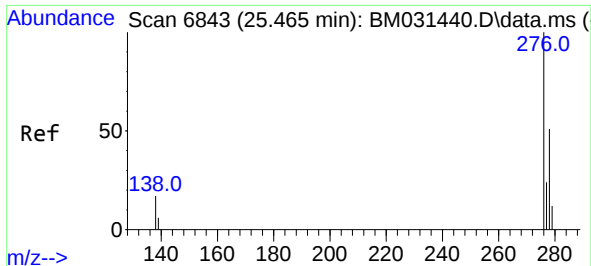
mohammad  
8/5/2021 5:04:37 PM



#26  
Benzo(a)pyrene  
Concen: 0.219 ng/ul m  
RT: 23.232 min Scan# 5921  
Delta R.T. -0.002 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:252 | Resp: | 5176       |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 38.6  | 22.4 33.6# |
| 125         | 39.9  | 13.0 19.4# |





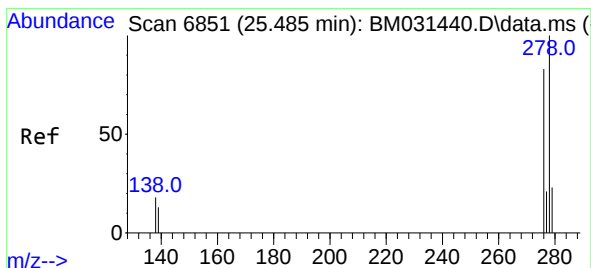
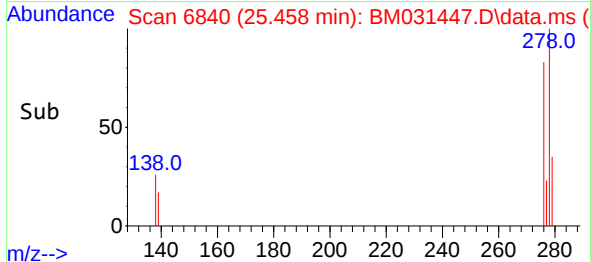
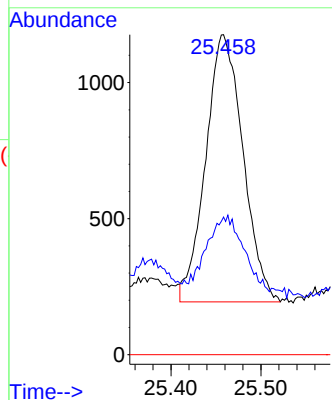
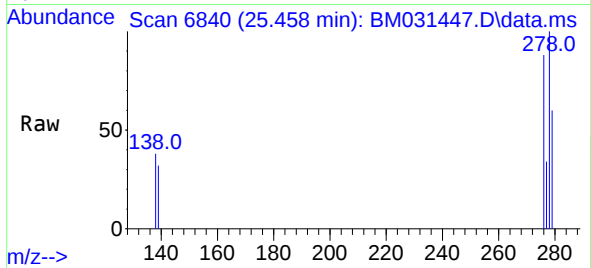
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.093 ng/ul  
RT: 25.458 min Scan# 6840  
Delta R.T. -0.007 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

Tgt Ion:276 Resp: 2833  
Ion Ratio Lower Upper  
276 100  
138 33.4 15.8 23.8#  
227 0.0 0.0 0.0

Instrument :  
BNA\_M  
ClientSampleId :  
C0067RE

Manual Integrations  
APPROVED

mohammad  
8/5/2021 5:04:37 PM



#28  
Dibenzo(a,h)anthracene  
Concen: 0.173 ng/ul  
RT: 25.468 min Scan# 6844  
Delta R.T. -0.017 min  
Lab File: BM031447.D  
Acq: 04 Aug 2021 14:52

Tgt Ion:278 Resp: 4272  
Ion Ratio Lower Upper  
278 100  
139 31.2 13.3 19.9#  
279 60.0 22.8 34.2#

