

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM101823\  
 Data File : BM042351.D  
 Acq On : 18 Oct 2023 15:51  
 Operator : MA/JU  
 Sample : 02215-01  
 Misc : SFAM-SIM-WATER- MDL- 01  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-WATER-QT2-2023-03

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/19/2023  
 Supervised By :mohammad ahmed 10/20/2023

Quant Time: Oct 18 16:42:27 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM101823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 18 14:30:27 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.017  | 152  | 3646     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.834 | 136  | 9632     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.652 | 164  | 4029     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.405 | 188  | 7703     | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.583 | 240  | 3390     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.056 | 264  | 3437     | 0.400 | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.377  | 96   | 2239     | 0.416 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.418 | 152  | 4498     | 0.380 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.427 | 212  | 5978     | 0.390 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.414  | 88   | 618m     | 0.108 | ng/ul  |          |
| 5) Naphthalene              | 10.889 | 128  | 2163     | 0.070 | ng/ul# | 91       |
| 7) 2-Methylnaphthalene      | 12.495 | 142  | 1247     | 0.069 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.709 | 142  | 1251     | 0.068 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.384 | 152  | 1747     | 0.072 | ng/ul# | 93       |
| 11) Acenaphthene            | 14.717 | 153  | 1380     | 0.070 | ng/ul  | 98       |
| 12) Fluorene                | 15.707 | 166  | 1469     | 0.068 | ng/ul# | 97       |
| 14) Pentachlorophenol       | 17.046 | 266  | 217      | 0.074 | ng/ul  | 96       |
| 15) Phenanthrene            | 17.447 | 178  | 2364     | 0.071 | ng/ul  | 93       |
| 16) Anthracene              | 17.544 | 178  | 1898m    | 0.067 | ng/ul  |          |
| 19) Fluoranthene            | 19.459 | 202  | 2494     | 0.067 | ng/ul  | 96       |
| 20) Pyrene                  | 19.826 | 202  | 2505     | 0.065 | ng/ul  | 95       |
| 21) Benzo(a)anthracene      | 21.568 | 228  | 1747     | 0.069 | ng/ul  | 94       |
| 22) Chrysene                | 21.624 | 228  | 1928     | 0.074 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.290 | 252  | 1904     | 0.068 | ng/ul  | 55       |
| 25) Benzo(k)fluoranthene    | 23.339 | 252  | 1856     | 0.070 | ng/ul# | 51       |
| 26) Benzo(a)pyrene          | 23.947 | 252  | 1543     | 0.070 | ng/ul# | 42       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.660 | 276  | 1942     | 0.068 | ng/ul# | 99       |
| 28) Dibenzo(a,h)anthracene  | 26.680 | 278  | 1376     | 0.067 | ng/ul# | 73       |
| 29) Benzo(g,h,i)perylene    | 27.465 | 276  | 1746     | 0.071 | ng/ul# | 86       |

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

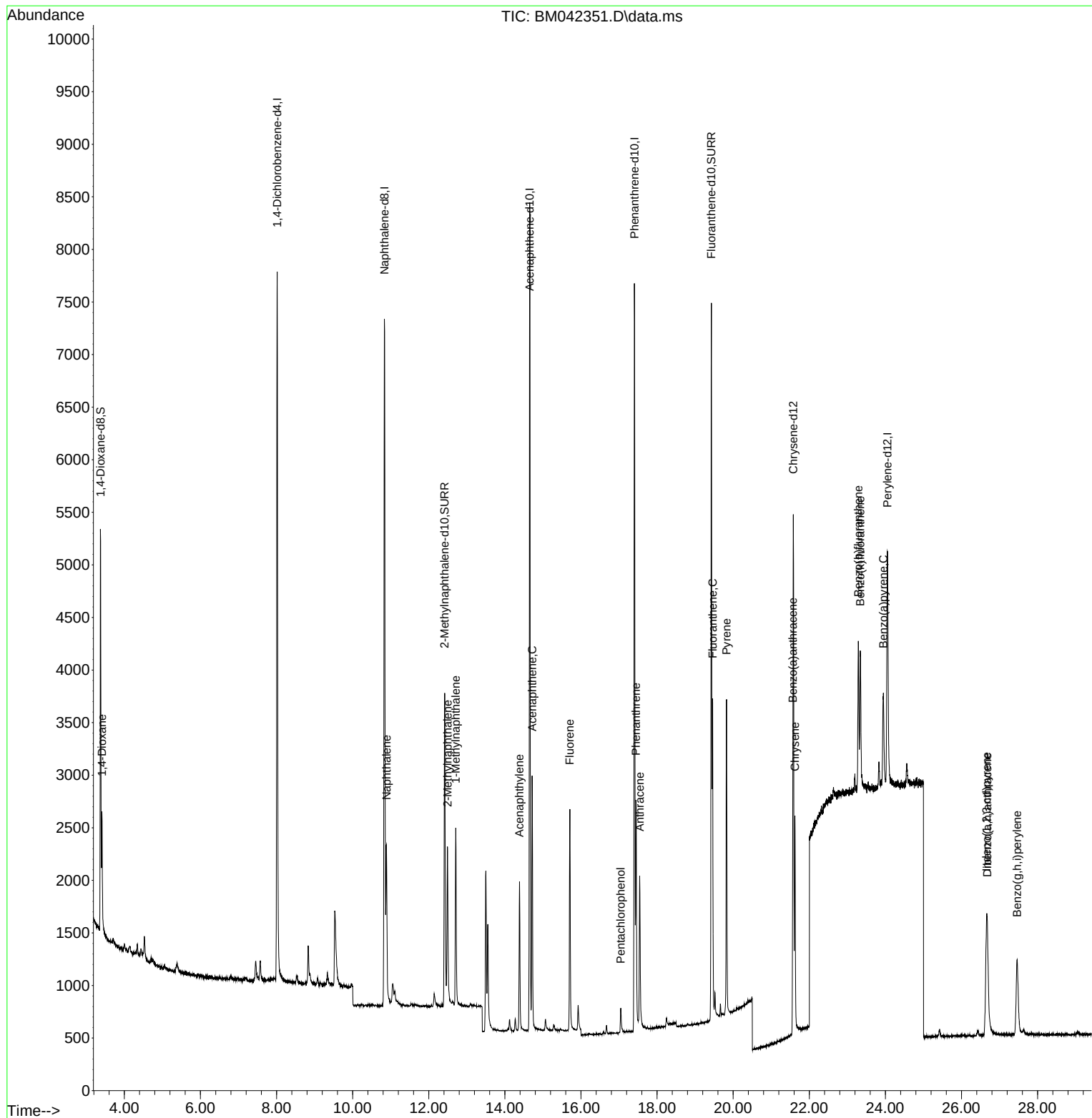
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM101823\  
Data File : BM042351.D  
Acq On : 18 Oct 2023 15:51  
Operator : MA/JU  
Sample : 02215-01  
Misc : SFAM-SIM-WATER- MDL- 01  
ALS Vial : 11 Sample Multiplier: 1

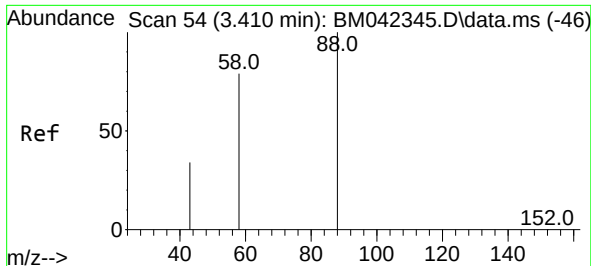
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03

Quant Time: Oct 18 16:42:27 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM101823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 18 14:30:27 2023  
Response via : Initial Calibration

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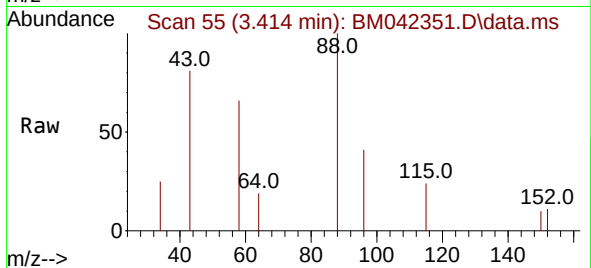
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023





#2  
1,4-Dioxane  
Concen: 0.108 ng/ul m  
RT: 3.414 min Scan# 54  
Delta R.T. 0.004 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

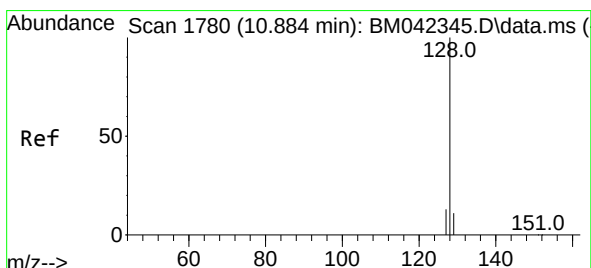
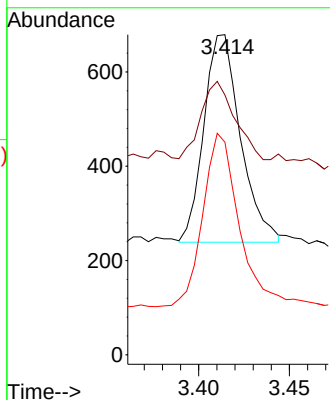
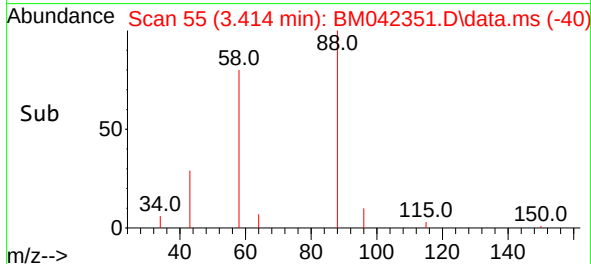
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



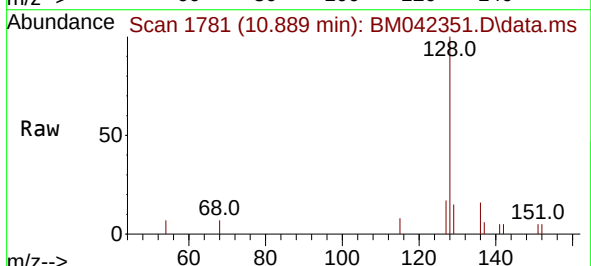
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Ion Ratio Lower Upper  
88 100  
43 81.1 41.0 61.6  
58 66.4 60.9 91.3

Manual Integrations  
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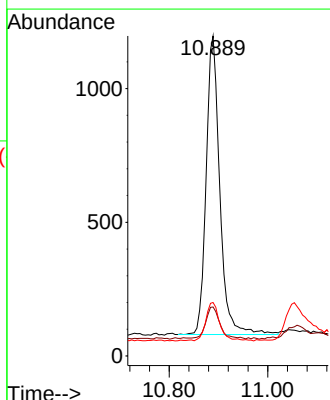
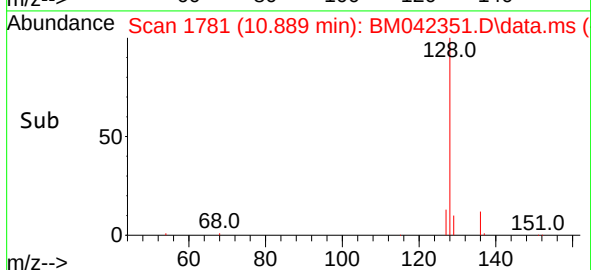
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023

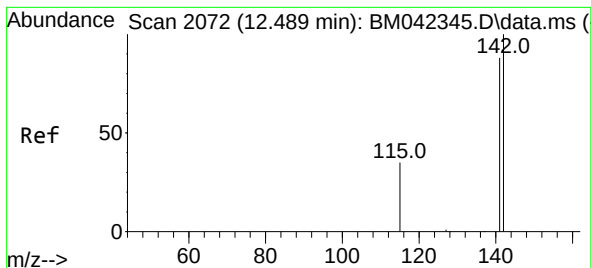


#5  
Naphthalene  
Concen: 0.070 ng/ul  
RT: 10.889 min Scan# 1781  
Delta R.T. 0.006 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51



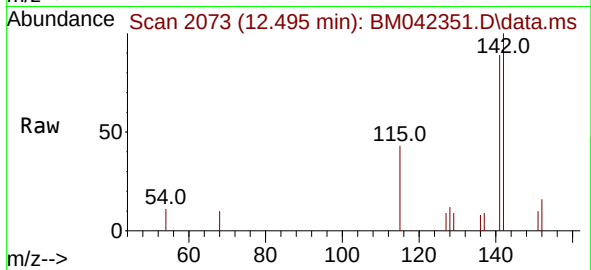
Tgt Ion:128 Resp: 2163  
Ion Ratio Lower Upper  
128 100  
129 15.3 9.0 13.6#  
127 16.7 10.6 16.0#





#7  
2-Methylnaphthalene  
Concen: 0.069 ng/ul  
RT: 12.495 min Scan# 2073  
Delta R.T. 0.006 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

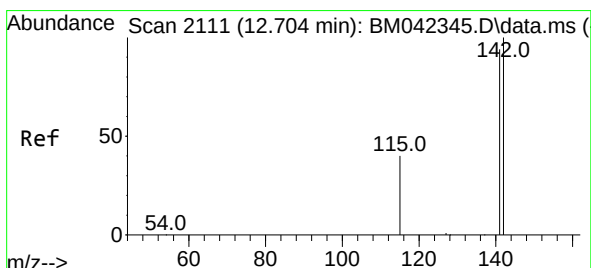
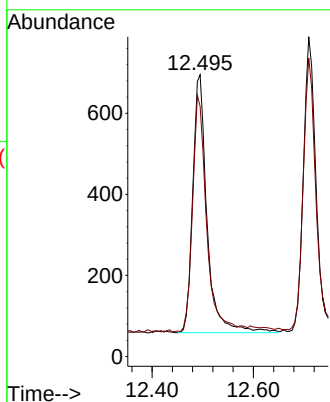
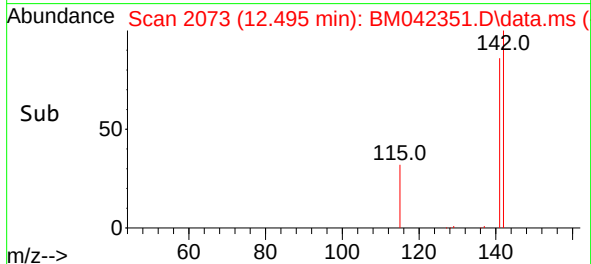
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



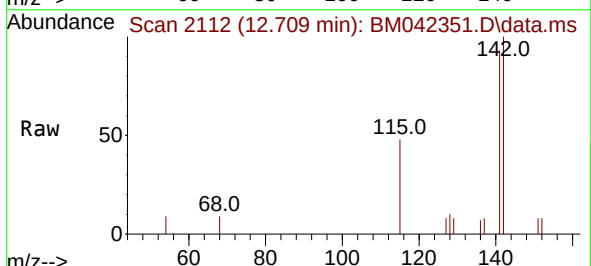
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Ion Ratio Lower Upper  
142 100  
141 92.4 71.9 107.9

Manual Integrations  
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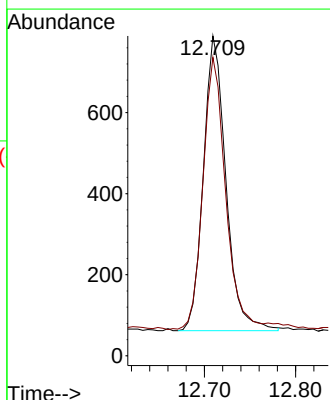
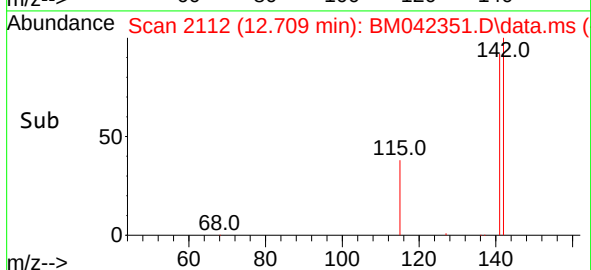
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023

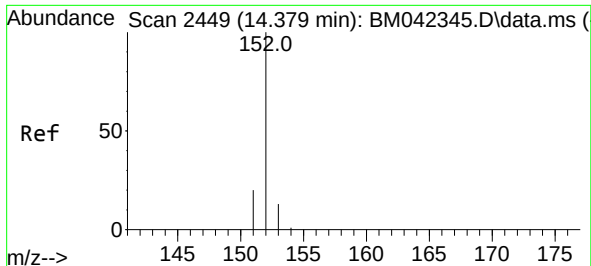


#8  
1-Methylnaphthalene  
Concen: 0.068 ng/ul  
RT: 12.709 min Scan# 2112  
Delta R.T. 0.006 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51



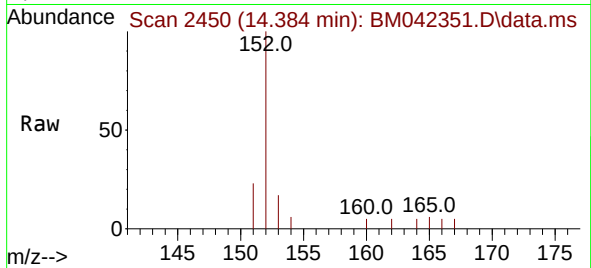
Tgt Ion:142 Resp: 1251  
Ion Ratio Lower Upper  
142 100  
141 93.4 73.7 110.5





#10  
Acenaphthylene  
Concen: 0.072 ng/u1  
RT: 14.384 min Scan# 2449  
Delta R.T. 0.005 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

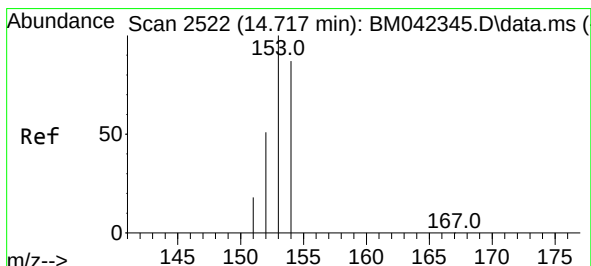
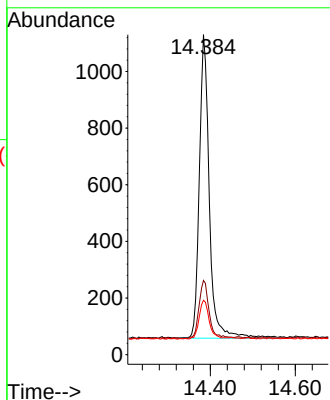
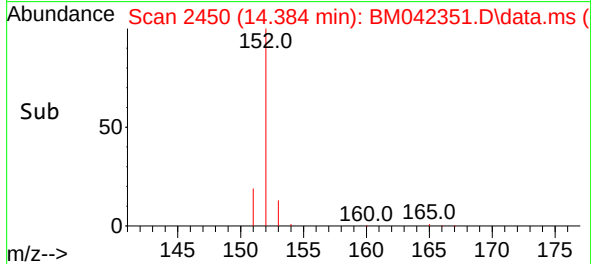
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion:152 Resp: 174  
Ion Ratio Lower Upper  
152 100  
151 23.2 16.2 24.4  
153 17.0 10.8 16.2

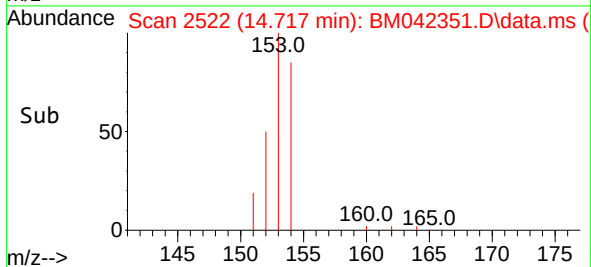
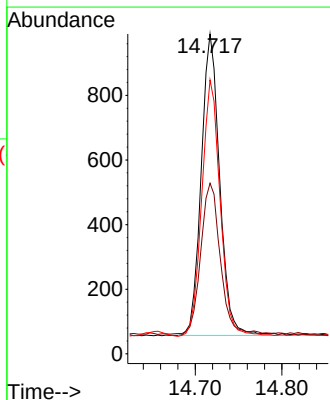
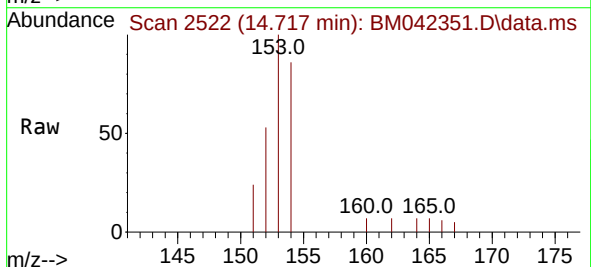
Manual Integrations  
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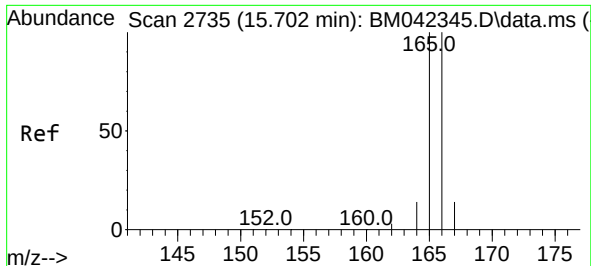
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023



#11  
Acenaphthene  
Concen: 0.070 ng/u1  
RT: 14.717 min Scan# 2522  
Delta R.T. 0.000 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

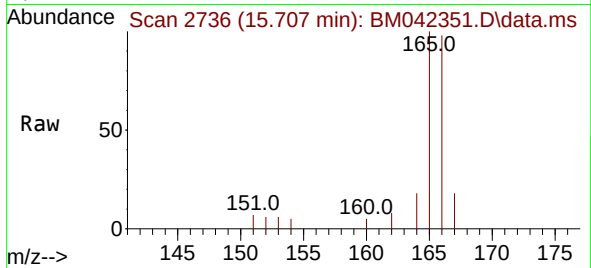
Tgt Ion:153 Resp: 1380  
Ion Ratio Lower Upper  
153 100  
152 53.3 41.7 62.5  
154 85.7 70.0 105.0





#12  
Fluorene  
Concen: 0.068 ng/ul  
RT: 15.707 min Scan# 21  
Delta R.T. 0.005 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

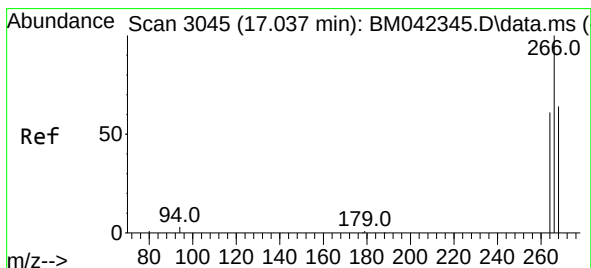
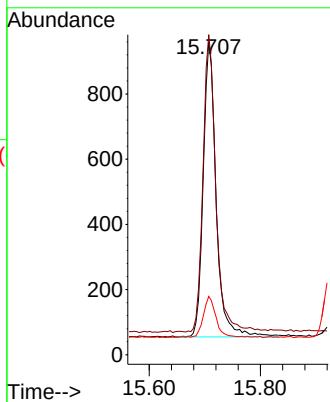
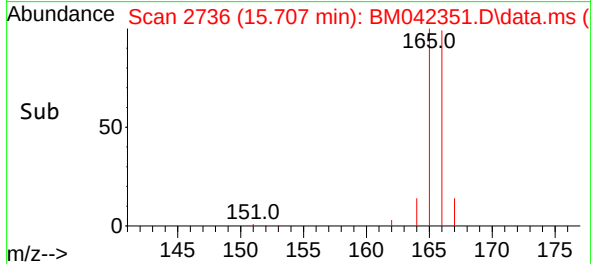
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion:166 Resp: 146  
Ion Ratio Lower Upper  
166 100  
165 102.3 80.3 120.5  
167 18.6 11.4 17.2

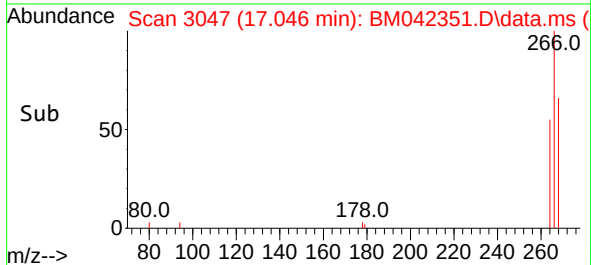
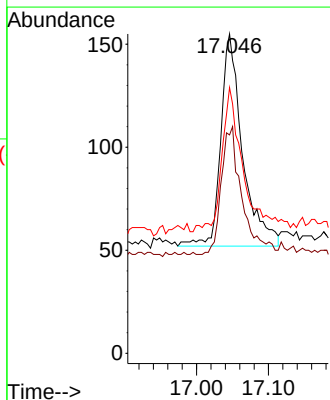
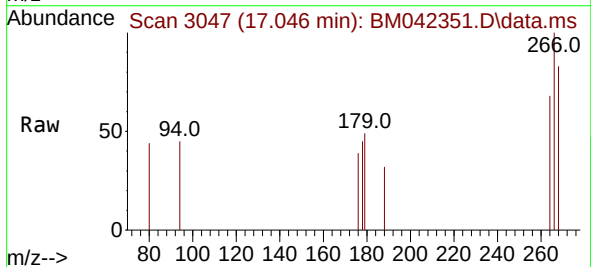
Manual Integrations  
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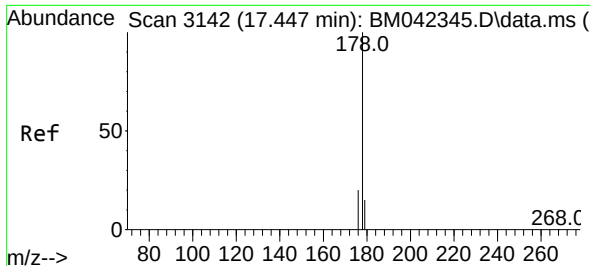
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023



#14  
Pentachlorophenol  
Concen: 0.074 ng/ul  
RT: 17.046 min Scan# 3047  
Delta R.T. 0.008 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

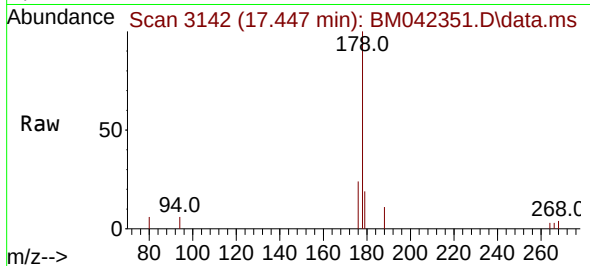
Tgt Ion:266 Resp: 217  
Ion Ratio Lower Upper  
266 100  
264 57.1 49.8 74.8  
268 66.4 51.9 77.9





#15  
Phenanthrene  
Concen: 0.071 ng/ul  
RT: 17.447 min Scan# 3142  
Delta R.T. 0.000 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

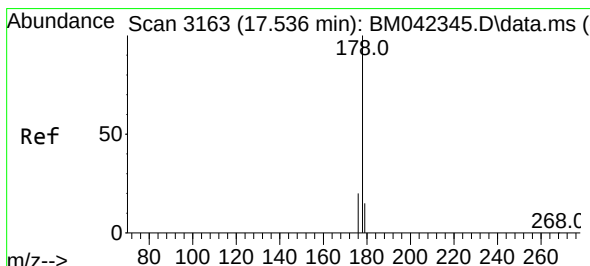
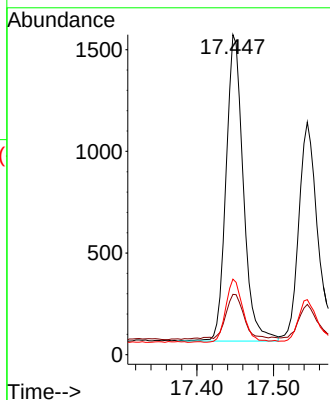
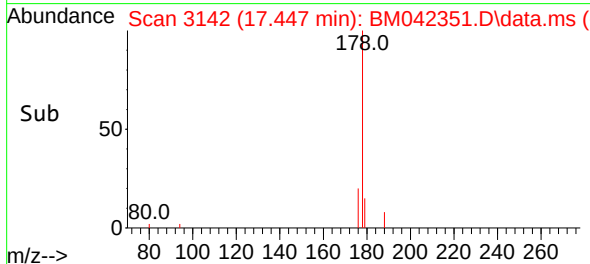
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion:178 Resp: 2364  
Ion Ratio Lower Upper  
178 100  
179 18.9 12.6 19.0  
176 23.6 16.4 24.6

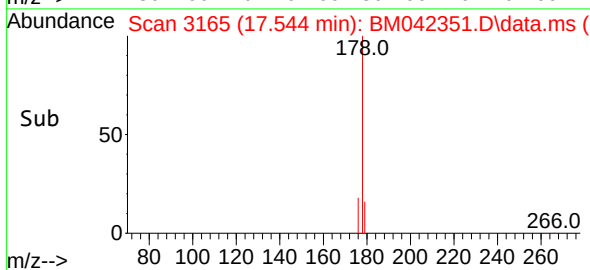
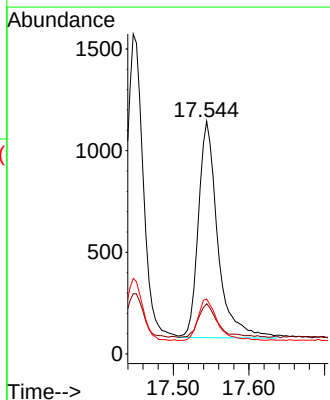
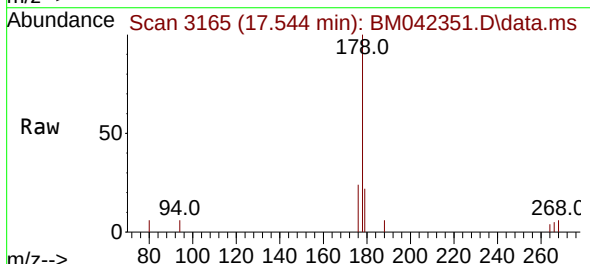
Manual Integrations  
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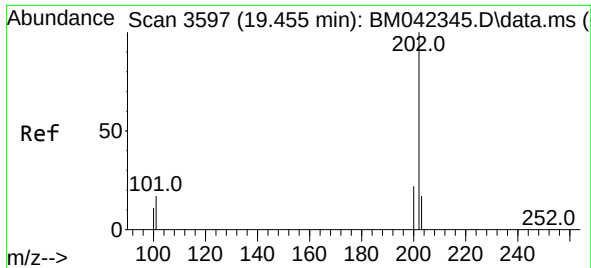
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023



#16  
Anthracene  
Concen: 0.067 ng/ul m  
RT: 17.544 min Scan# 3165  
Delta R.T. 0.009 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

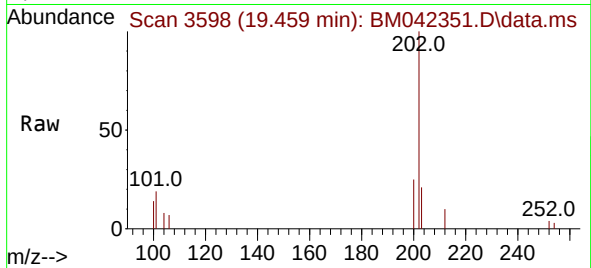
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Ion Ratio Lower Upper  
178 100  
179 21.6 12.9 19.3#  
176 23.7 16.4 24.6





#19  
Fluoranthene  
Concen: 0.067 ng/u1  
RT: 19.459 min Scan# 3598  
Delta R.T. 0.005 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

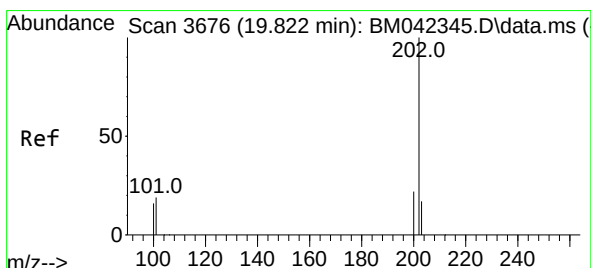
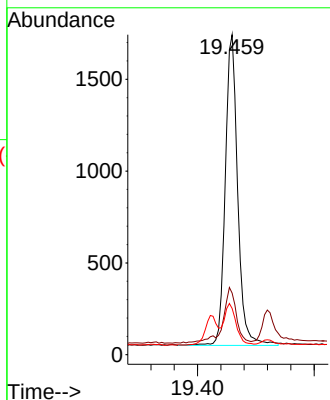
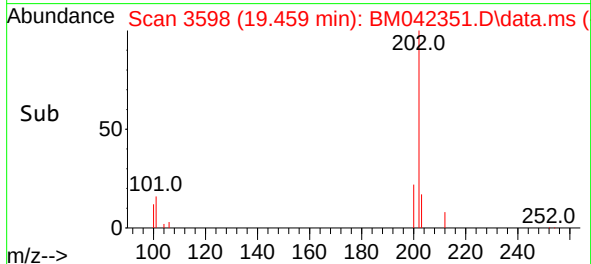
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



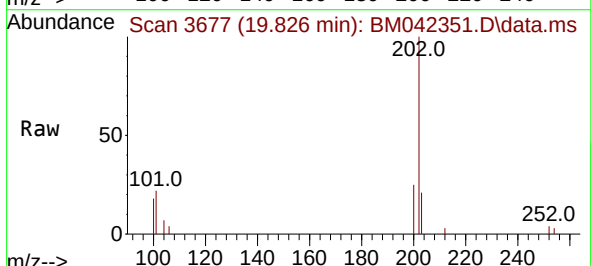
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Ion Ratio Lower Upper  
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101 19.3 14.0 21.0  
100 14.5 10.4 15.6

Manual Integrations  
APPROVED

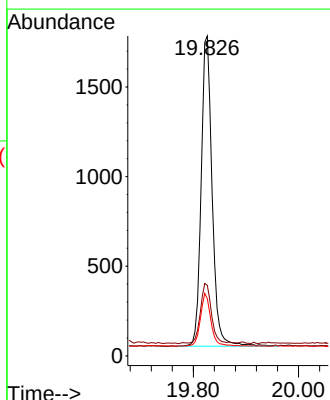
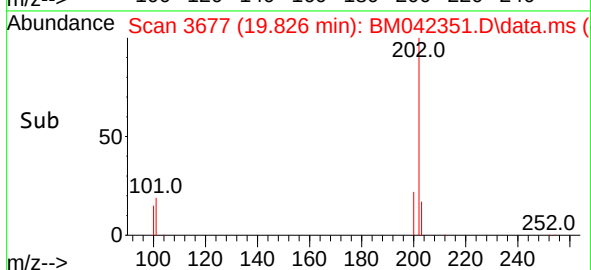
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023



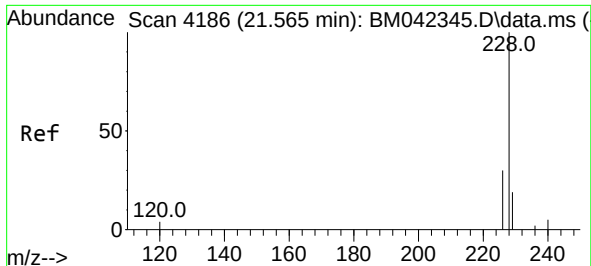
#20  
Pyrene  
Concen: 0.065 ng/u1  
RT: 19.826 min Scan# 3677  
Delta R.T. 0.005 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51



Tgt Ion:202 Resp: 2505  
Ion Ratio Lower Upper  
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100 17.9 12.9 19.3

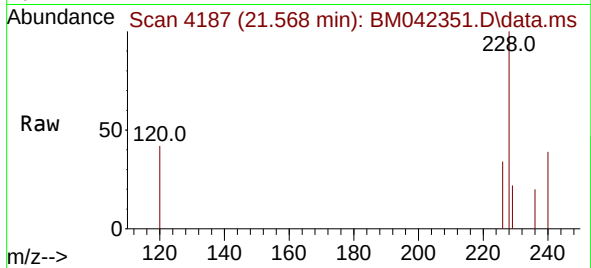






#21  
Benzo(a)anthracene  
Concen: 0.069 ng/ul  
RT: 21.568 min Scan# 4187  
Delta R.T. 0.003 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

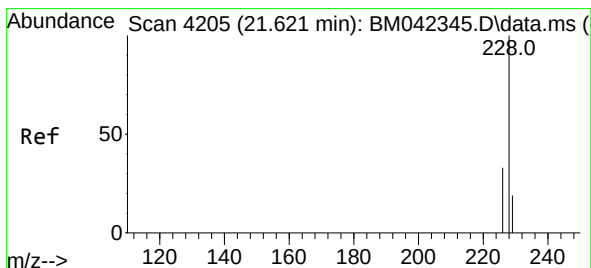
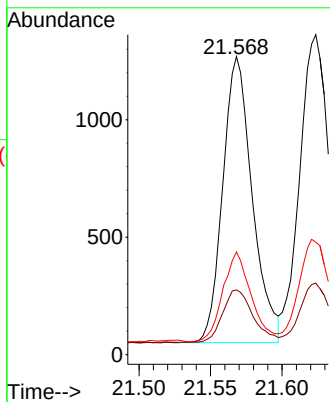
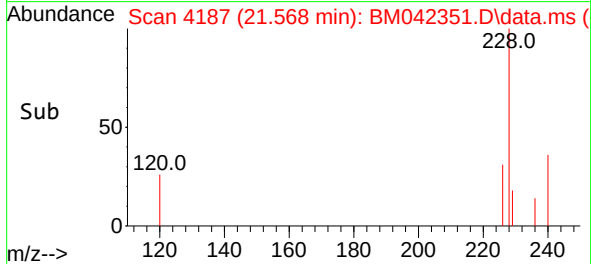
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion:228 Resp: 174  
Ion Ratio Lower Upper  
228 100  
229 21.7 15.6 23.4  
226 34.4 24.7 37.1

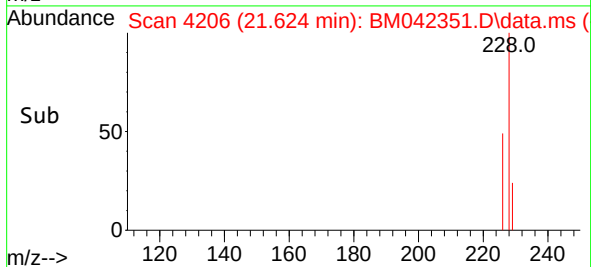
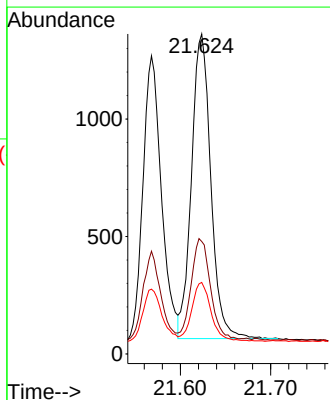
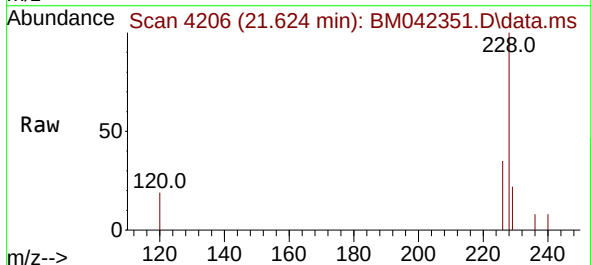
Manual Integrations  
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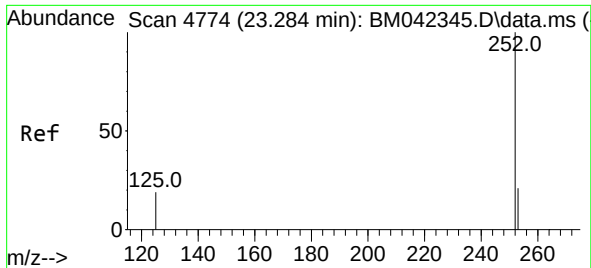
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023



#22  
Chrysene  
Concen: 0.074 ng/ul  
RT: 21.624 min Scan# 4206  
Delta R.T. 0.003 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

Tgt Ion:228 Resp: 1928  
Ion Ratio Lower Upper  
228 100  
226 35.2 27.1 40.7  
229 22.3 15.8 23.8





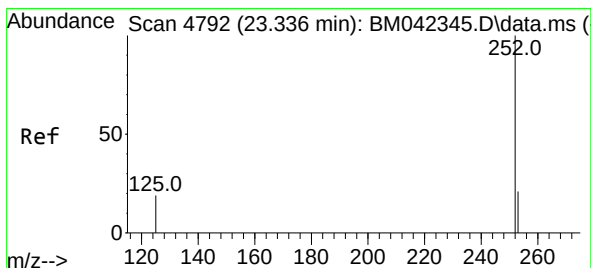
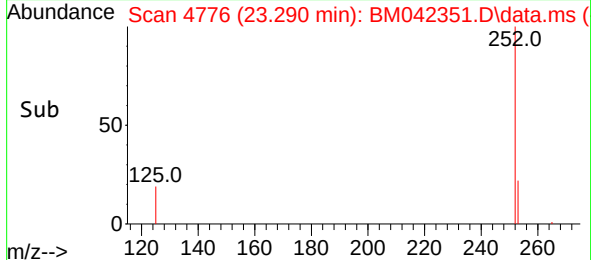
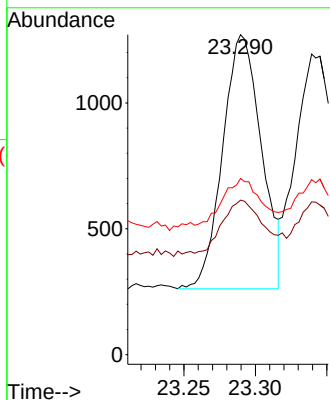
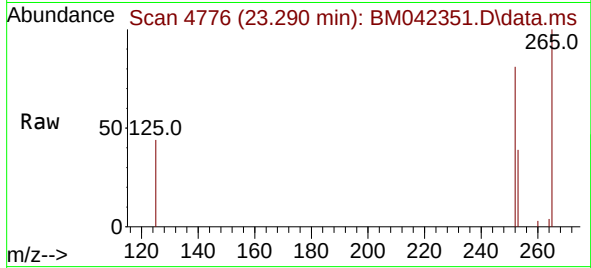
#24  
Benzo(b)fluoranthene  
Concen: 0.068 ng/u1  
RT: 23.290 min Scan# 4776  
Delta R.T. 0.006 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03

Tgt Ion:252 Resp: 1904  
Ion Ratio Lower Upper  
252 100  
253 48.3 0.0 56.4  
125 55.1 0.0 56.0

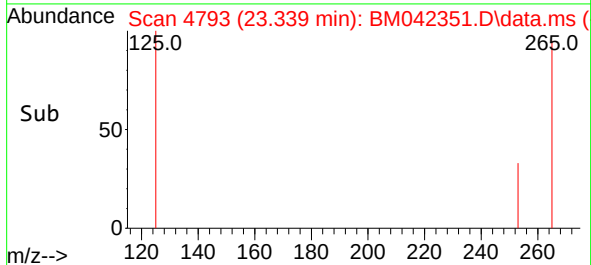
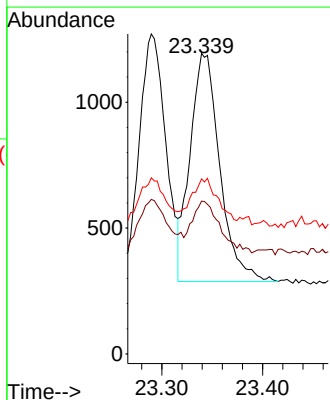
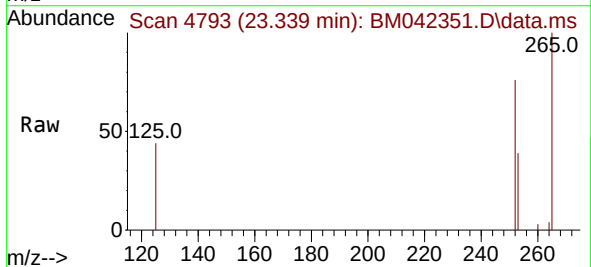
Manual Integrations  
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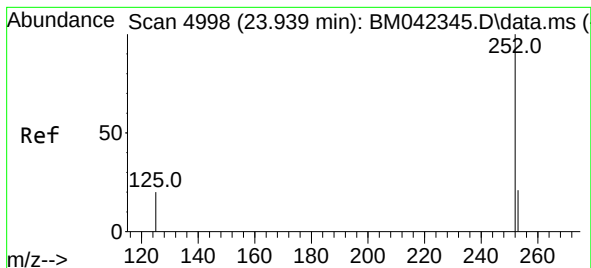
Reviewed By :Yogesh Patel 10/19/2023  
Supervised By :mohammad ahmed 10/20/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.070 ng/u1  
RT: 23.339 min Scan# 4793  
Delta R.T. 0.003 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

Tgt Ion:252 Resp: 1856  
Ion Ratio Lower Upper  
252 100  
253 50.8 22.7 34.1#  
125 58.2 23.0 34.4#





#26

Benzo(a)pyrene

Concen: 0.070 ng/ul

RT: 23.947 min Scan# 5001

Delta R.T. 0.009 min

Lab File: BM042351.D

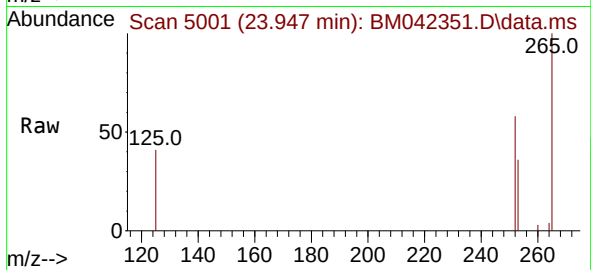
Acq: 18 Oct 2023 15:51

Instrument :

BNM

ClientSampleId :

MDL-WATER-QT2-2023-03



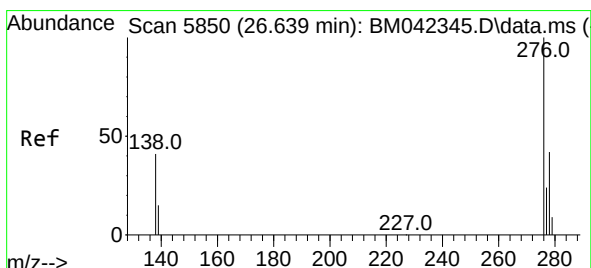
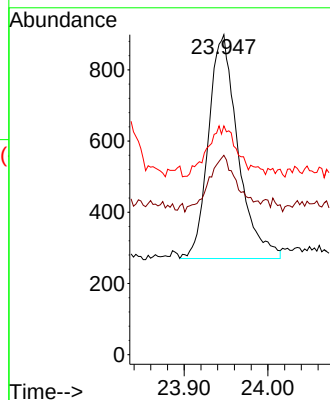
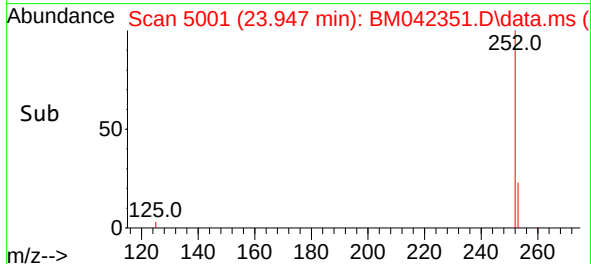
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 154  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 62.3  | 26.3  | 39.5 |
| 125       | 71.5  | 27.7  | 41.5 |

Manual Integrations

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Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.068 ng/ul

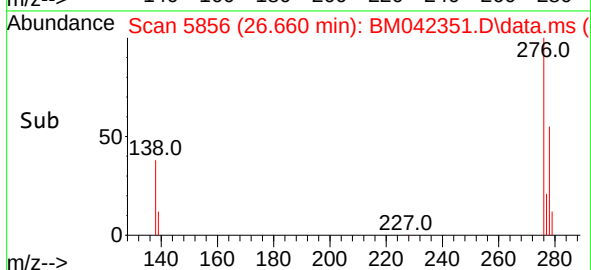
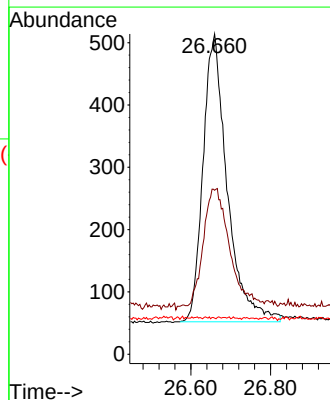
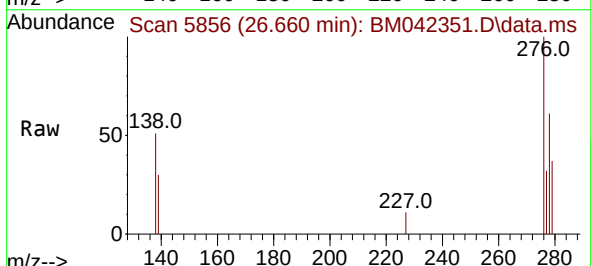
RT: 26.660 min Scan# 5856

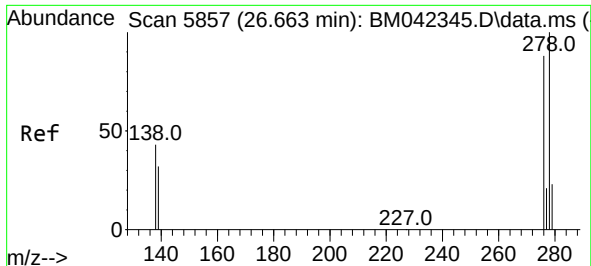
Delta R.T. 0.021 min

Lab File: BM042351.D

Acq: 18 Oct 2023 15:51

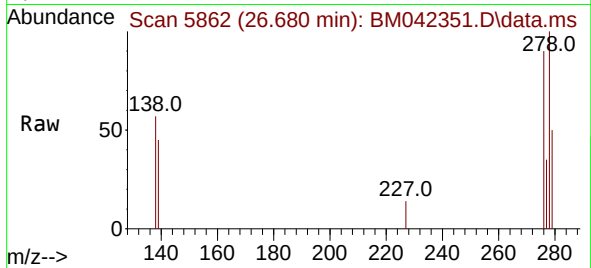
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 1942 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 45.7  | 35.9  | 53.9 |
| 227       | 0.3   | 0.1   | 0.1  |





#28  
Dibenzo(a,h)anthracene  
Concen: 0.067 ng/ul  
RT: 26.680 min Scan# 5862  
Delta R.T. 0.017 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

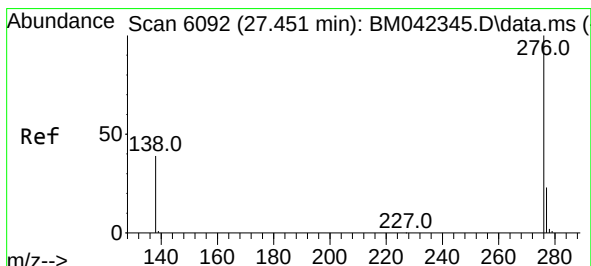
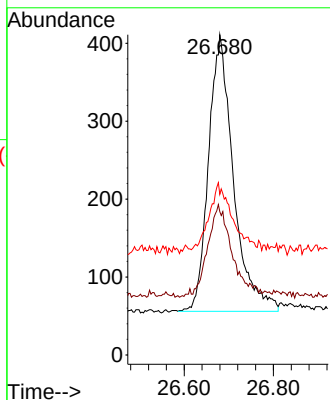
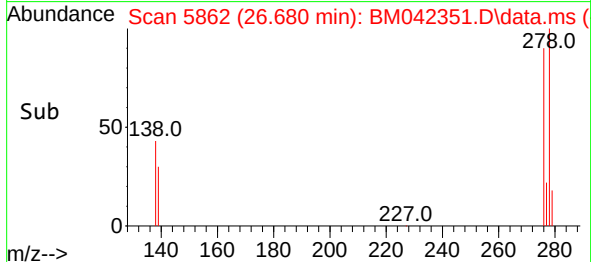
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion: 278 Resp: 1370  
Ion Ratio Lower Upper  
278 100  
139 44.8 28.1 42.1  
279 50.1 22.9 34.3

Manual Integrations  
APPROVED

Reviewed By : Yogesh Patel 10/19/2023  
Supervised By : mohammad ahmed 10/20/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.071 ng/ul  
RT: 27.465 min Scan# 6096  
Delta R.T. 0.014 min  
Lab File: BM042351.D  
Acq: 18 Oct 2023 15:51

Tgt Ion: 276 Resp: 1746  
Ion Ratio Lower Upper  
276 100  
138 47.9 33.3 49.9  
277 34.9 19.9 29.9

