

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042424\  
 Data File : BM045554.D  
 Acq On : 25 Apr 2024 08:20  
 Operator : MA/JU  
 Sample : P2104-20  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AL7

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 04/25/2024  
 Supervised By :mohammad ahmed 04/27/2024

Quant Time: Apr 25 08:51:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM042024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 24 05:17:39 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.547  | 152  | 972      | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.314 | 136  | 2605     | 0.400 | ng/ul  | #-0.02   |
| 9) Acenaphthene-d10         | 14.196 | 164  | 1406     | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.964 | 188  | 2841m    | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.183 | 240  | 2429     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.372 | 264  | 3685     | 0.400 | ng/ul  | #-0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.163  | 96   | 4560     | 3.500 | ng/ul  | -0.01    |
| 6) 2-Methylnaphthalene-d10  | 11.914 | 152  | 772      | 0.225 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.006 | 212  | 1611     | 0.211 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.358 | 128  | 1890     | 0.270 | ng/ul  | 96       |
| 7) 2-Methylnaphthalene      | 11.991 | 142  | 1041     | 0.261 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.211 | 142  | 606      | 0.135 | ng/ul  | 100      |
| 10) Acenaphthylene          | 13.914 | 152  | 932      | 0.134 | ng/ul# | 55       |
| 12) Fluorene                | 15.260 | 166  | 236      | 0.043 | ng/ul# | 18       |
| 15) Phenanthrene            | 17.002 | 178  | 2650m    | 0.320 | ng/ul  |          |
| 16) Anthracene              | 17.094 | 178  | 812m     | 0.105 | ng/ul  |          |
| 19) Fluoranthene            | 19.034 | 202  | 4560     | 0.407 | ng/ul  | 98       |
| 20) Pyrene                  | 19.401 | 202  | 4884     | 0.424 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.169 | 228  | 2747     | 0.354 | ng/ul# | 88       |
| 22) Chrysene                | 21.218 | 228  | 4128m    | 0.346 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.717 | 252  | 6967m    | 0.562 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.761 | 252  | 2124m    | 0.136 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.270 | 252  | 3632     | 0.283 | ng/ul# | 83       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.557 | 276  | 4092     | 0.219 | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 25.564 | 278  | 1225     | 0.083 | ng/ul# | 26       |
| 29) Benzo(g,h,i)perylene    | 26.224 | 276  | 3754     | 0.224 | ng/ul# | 91       |
| -----                       |        |      |          |       |        |          |

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

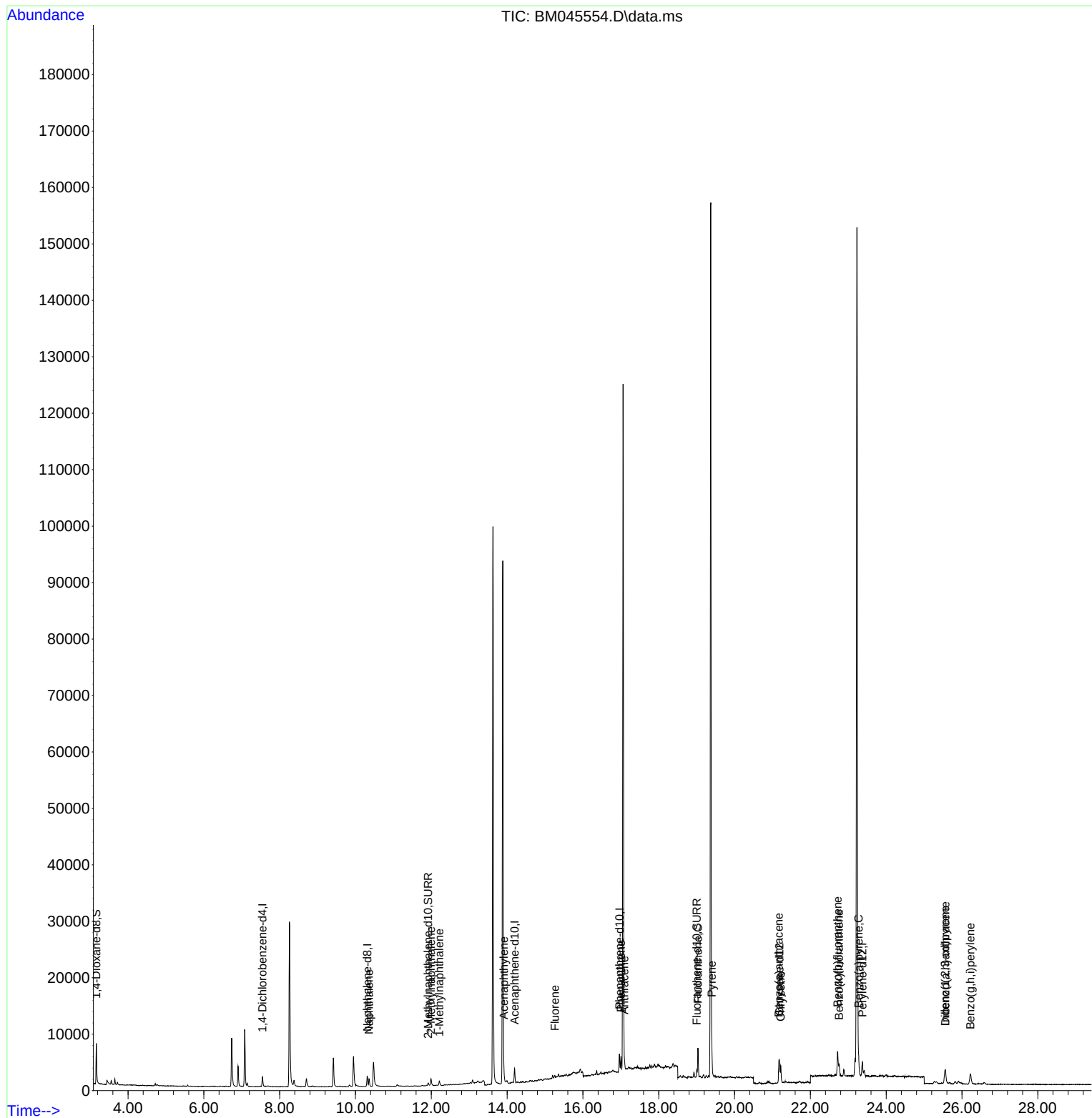
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042424\  
Data File : BM045554.D  
Acq On : 25 Apr 2024 08:20  
Operator : MA/JU  
Sample : P2104-20  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

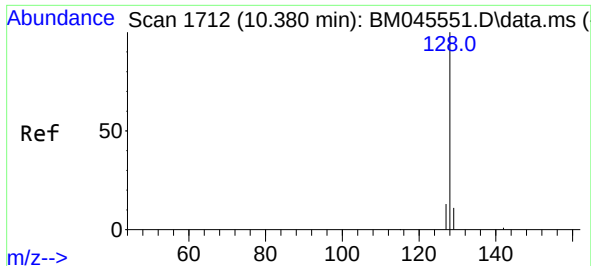
Instrument :  
BNA\_M  
ClientSampleId :  
C0AL7

Quant Time: Apr 25 08:51:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM042024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 24 05:17:39 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

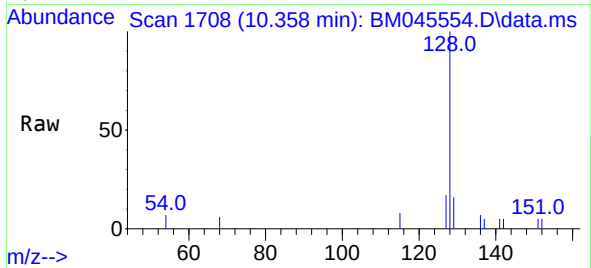
Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024





#5  
Naphthalene  
Concen: 0.270 ng/ul  
RT: 10.358 min Scan# 11  
Delta R.T. -0.022 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

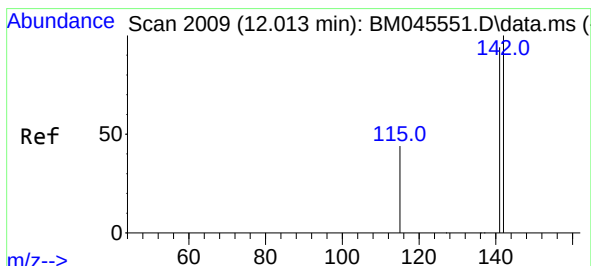
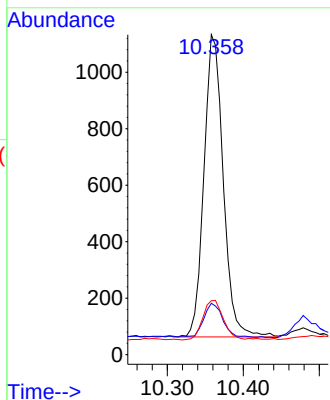
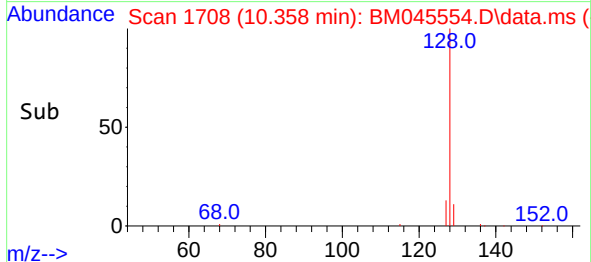
Instrument :  
BNA\_M  
ClientSampleId :  
C0AL7



Tgt Ion:128 Resp: 1890  
Ion Ratio Lower Upper  
128 100  
129 16.1 14.0 21.0  
127 16.9 15.4 23.2

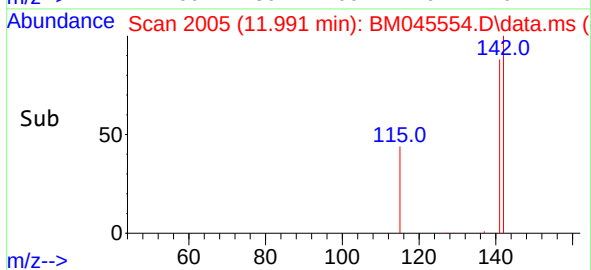
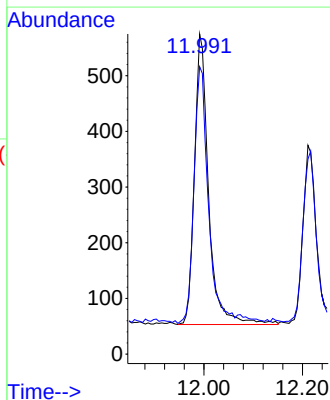
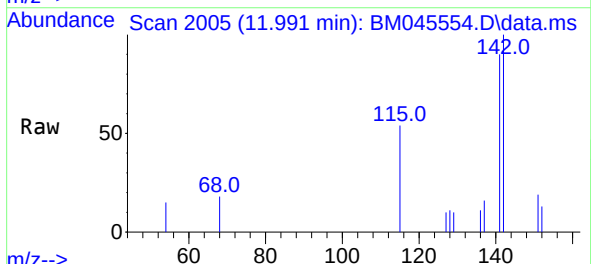
Manual Integrations  
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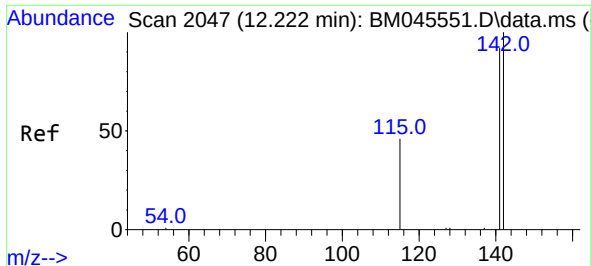
Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024



#7  
2-Methylnaphthalene  
Concen: 0.261 ng/ul  
RT: 11.991 min Scan# 2005  
Delta R.T. -0.017 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

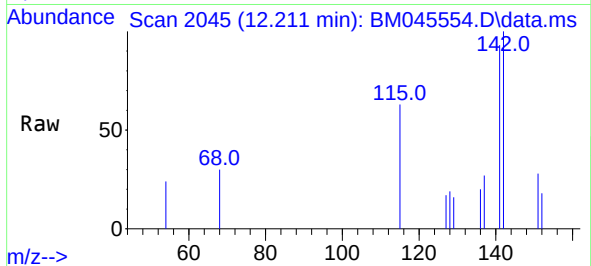
Tgt Ion:142 Resp: 1041  
Ion Ratio Lower Upper  
142 100  
141 91.8 74.6 111.8





#8  
1-Methylnaphthalene  
Concen: 0.135 ng/ul  
RT: 12.211 min Scan# 2045  
Delta R.T. -0.011 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

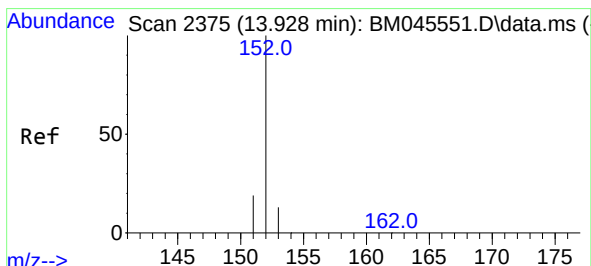
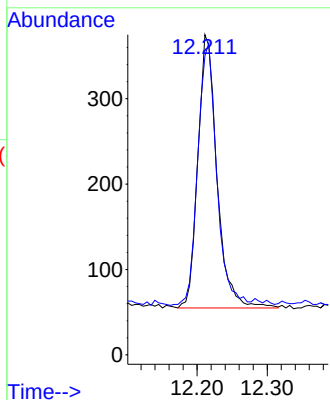
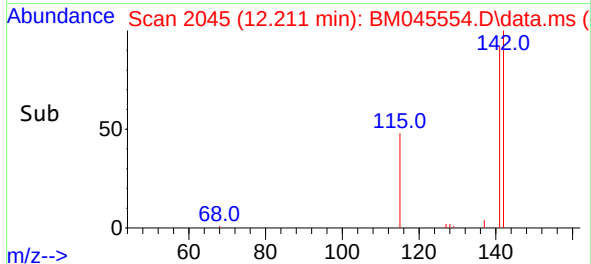
Instrument :  
BNA\_M  
ClientSampleId :  
C0AL7



Tgt Ion:142 Resp: 600  
Ion Ratio Lower Upper  
142 100  
141 95.2 76.1 114.1

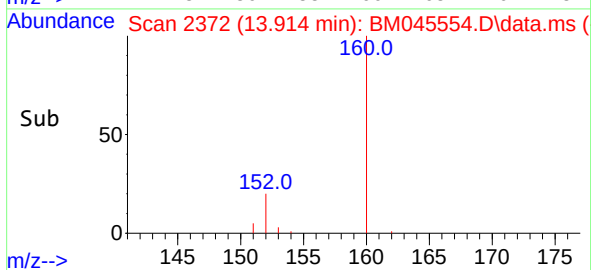
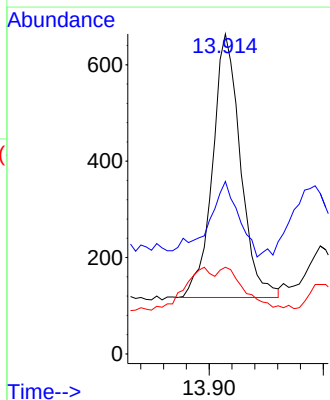
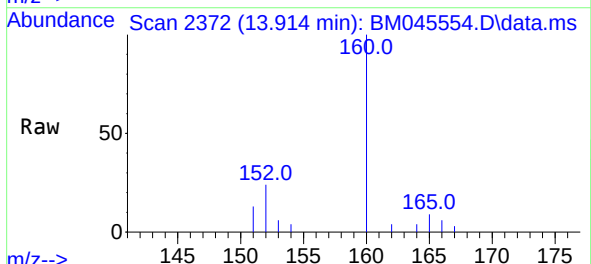
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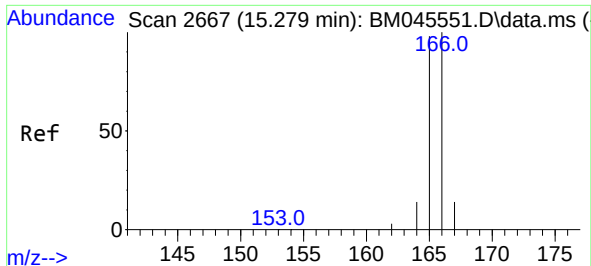
Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024



#10  
Acenaphthylene  
Concen: 0.134 ng/ul  
RT: 13.914 min Scan# 2372  
Delta R.T. -0.013 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

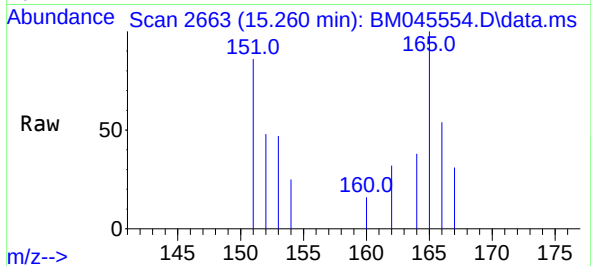
Tgt Ion:152 Resp: 932  
Ion Ratio Lower Upper  
152 100  
151 53.9 18.6 28.0#  
153 27.1 14.1 21.1#





#12  
Fluorene  
Concen: 0.043 ng/ul  
RT: 15.260 min Scan# 20  
Delta R.T. -0.018 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

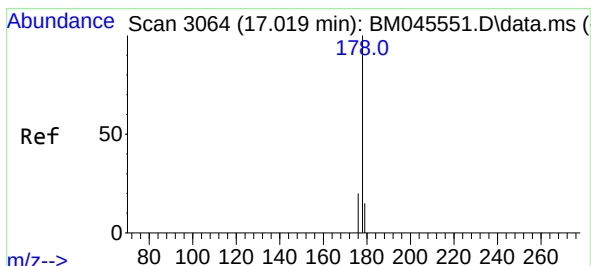
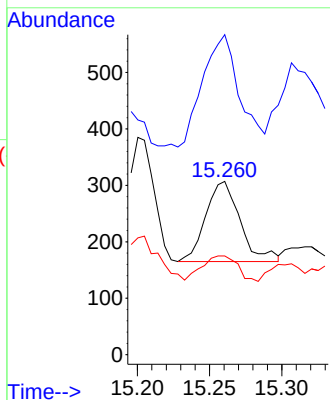
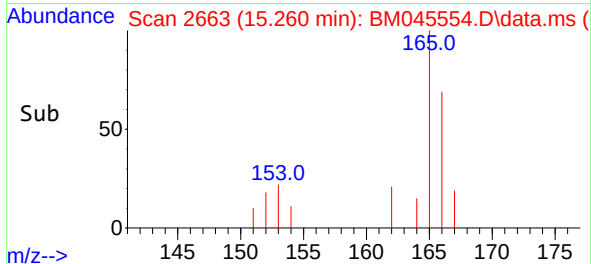
Instrument :  
BNA\_M  
ClientSampleId :  
C0AL7



Tgt Ion:166 Resp: 230  
Ion Ratio Lower Upper  
166 100  
165 184.7 82.2 123.2  
167 57.0 14.8 22.2

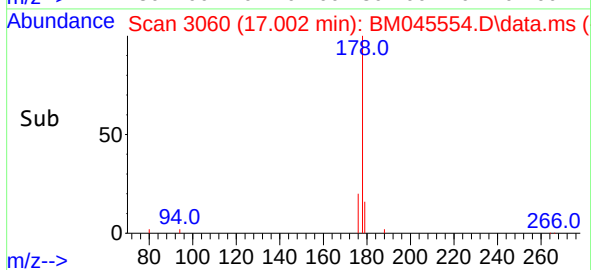
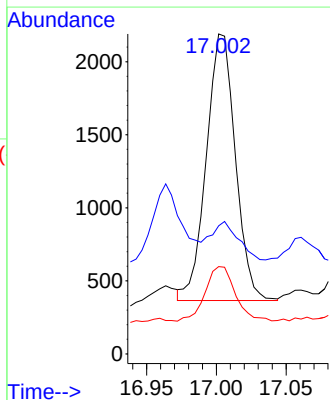
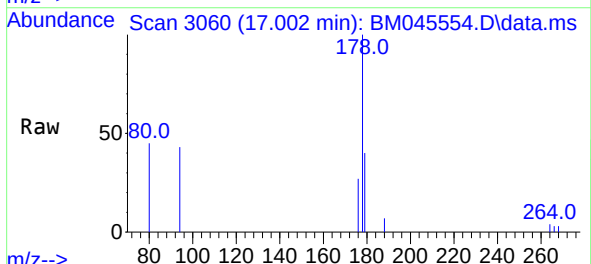
Manual Integrations  
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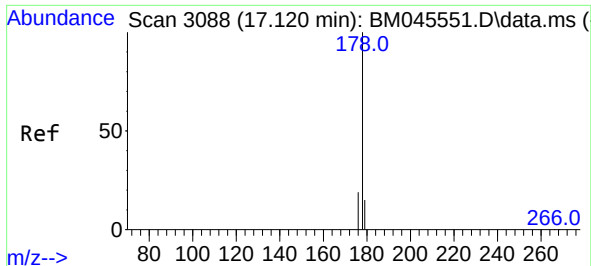
Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024



#15  
Phenanthrene  
Concen: 0.320 ng/ul m  
RT: 17.002 min Scan# 3060  
Delta R.T. -0.020 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

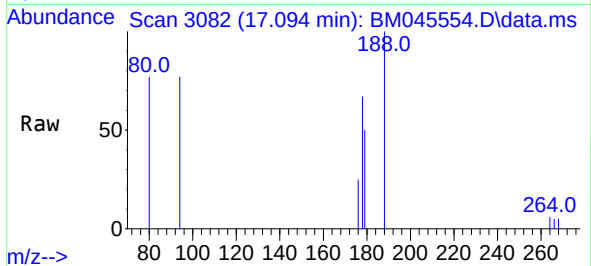
Tgt Ion:178 Resp: 2650  
Ion Ratio Lower Upper  
178 100  
179 40.0 15.4 23.2  
176 27.3 19.0 28.4





#16  
 Anthracene  
 Concen: 0.105 ng/ul m  
 RT: 17.094 min Scan# 3082  
 Delta R.T. -0.024 min  
 Lab File: BM045554.D  
 Acq: 25 Apr 2024 08:20

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AL7

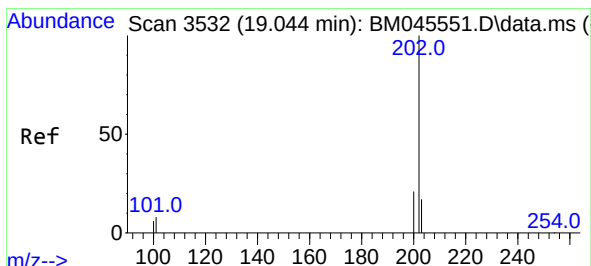
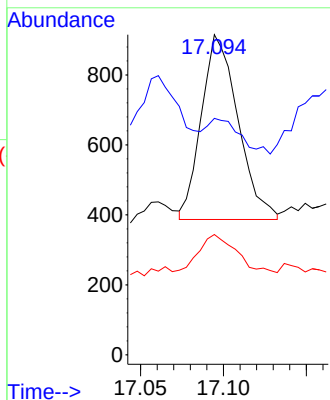
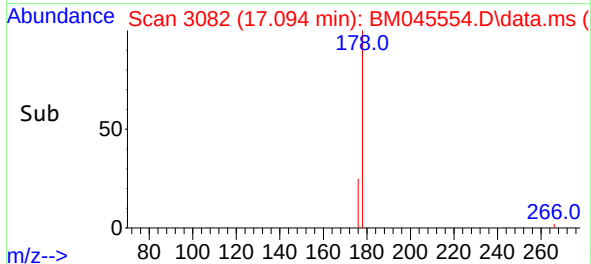


Tgt Ion:178 Resp: 812

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 73.9  | 17.8  | 26.6  |
| 176 | 37.6  | 18.7  | 28.1  |

Manual Integrations  
 APPROVED

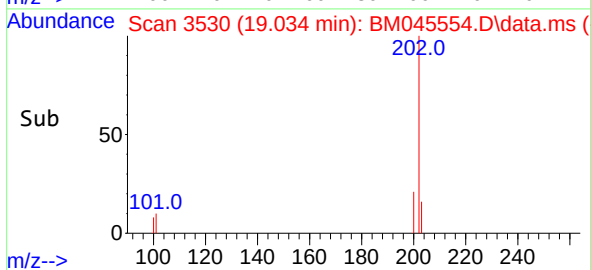
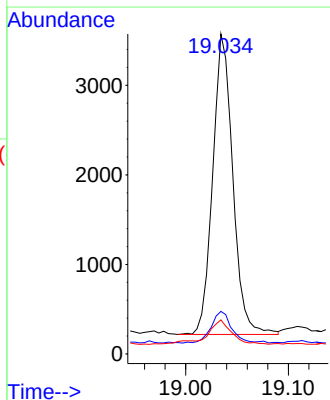
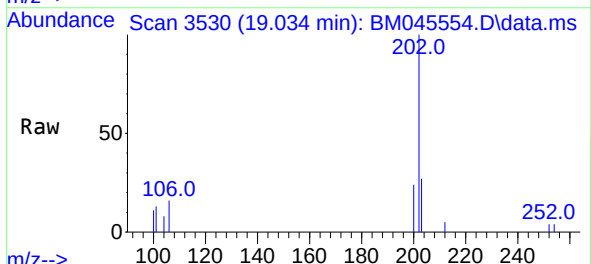
Reviewed By :Yogesh Patel 04/25/2024  
 Supervised By :mohammad ahmed 04/27/2024

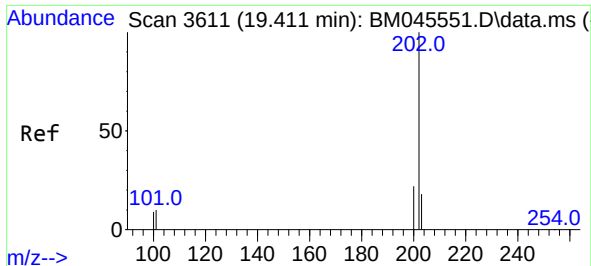


#19  
 Fluoranthene  
 Concen: 0.407 ng/ul  
 RT: 19.034 min Scan# 3530  
 Delta R.T. -0.013 min  
 Lab File: BM045554.D  
 Acq: 25 Apr 2024 08:20

Tgt Ion:202 Resp: 4560

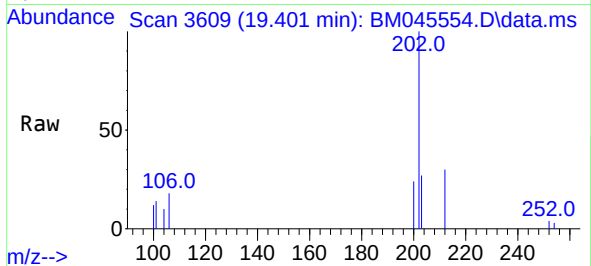
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.3  | 11.2  | 16.8  |
| 100 | 10.7  | 9.1   | 13.7  |





#20  
Pyrene  
Concen: 0.424 ng/ul  
RT: 19.401 min Scan# 30  
Delta R.T. -0.013 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

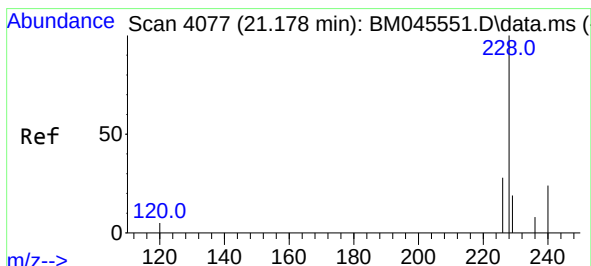
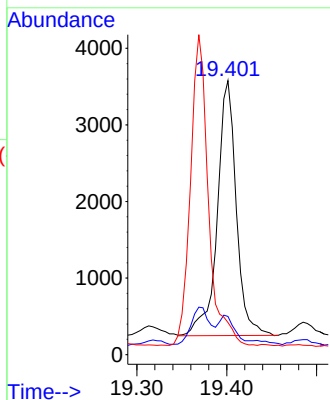
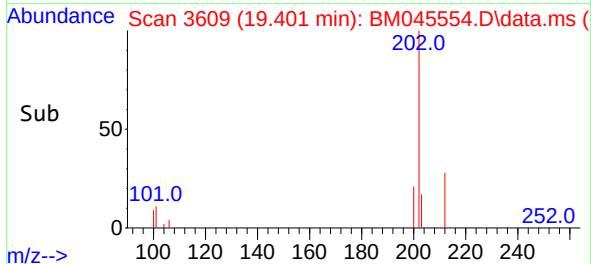
Instrument :  
BNA\_M  
ClientSampleId :  
C0AL7



Tgt Ion:202 Resp: 4884  
Ion Ratio Lower Upper  
202 100  
101 13.9 11.5 17.3  
100 11.8 10.6 15.8

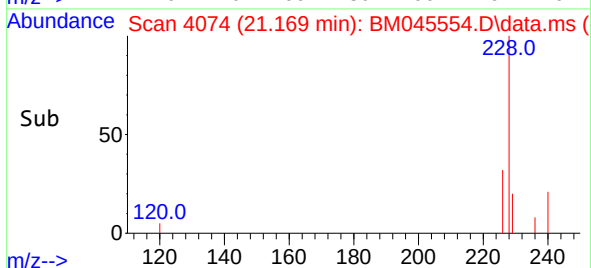
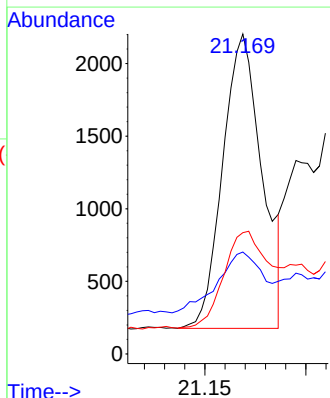
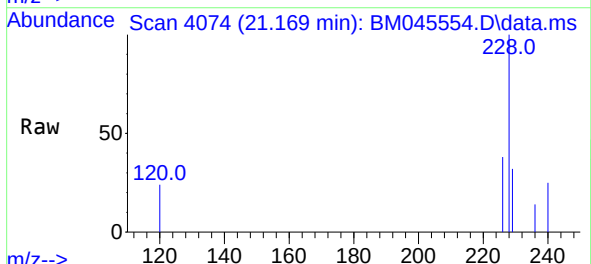
Manual Integrations  
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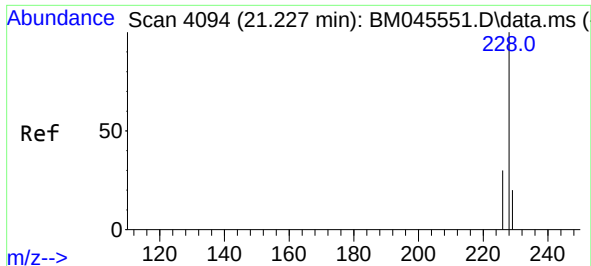
Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024



#21  
Benzo(a)anthracene  
Concen: 0.354 ng/ul  
RT: 21.169 min Scan# 4074  
Delta R.T. -0.013 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

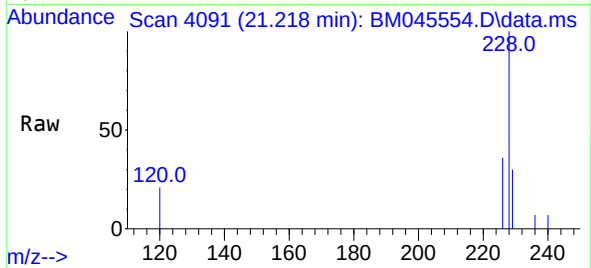
Tgt Ion:228 Resp: 2747  
Ion Ratio Lower Upper  
228 100  
229 31.9 19.4 29.2#  
226 37.9 26.3 39.5





#22  
Chrysene  
Concen: 0.346 ng/ul m  
RT: 21.218 min Scan# 4091  
Delta R.T. -0.010 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

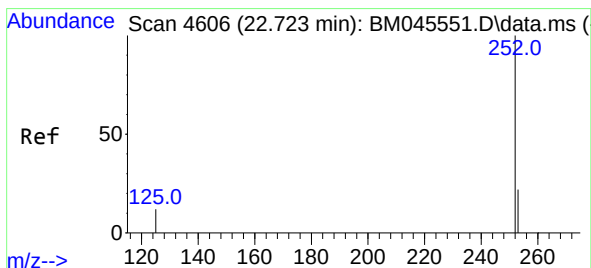
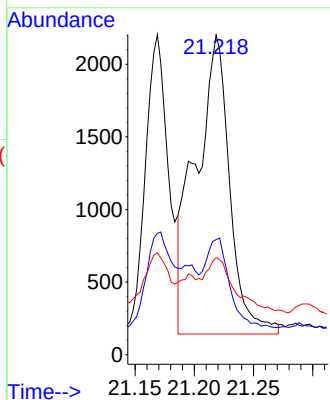
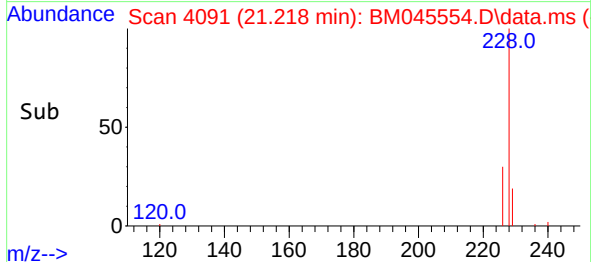
Instrument :  
BNA\_M  
ClientSampleId :  
C0AL7



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Ion Ratio Lower Upper  
228 100  
226 36.0 26.3 39.5  
229 30.3 17.8 26.8

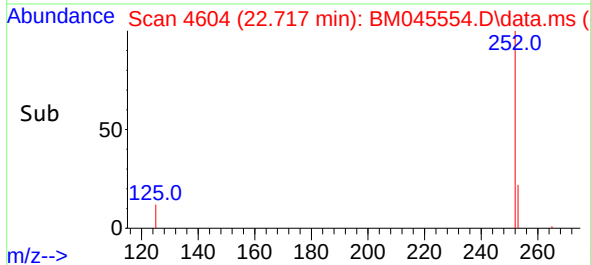
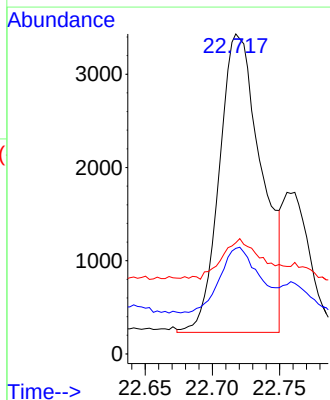
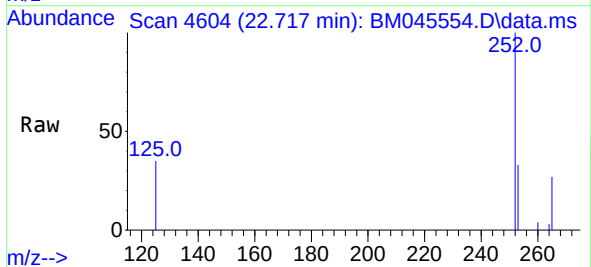
Manual Integrations  
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Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024

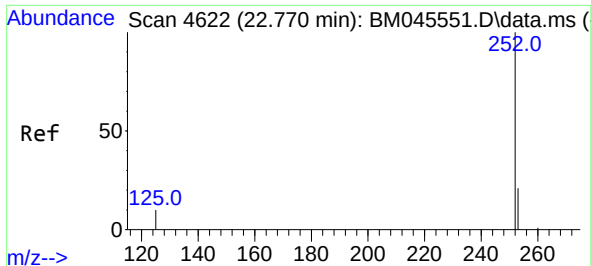


#24  
Benzo(b)fluoranthene  
Concen: 0.562 ng/ul m  
RT: 22.717 min Scan# 4604  
Delta R.T. -0.013 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

Tgt Ion:252 Resp: 6967  
Ion Ratio Lower Upper  
252 100  
253 33.0 0.0 63.4  
125 34.8 0.0 36.8







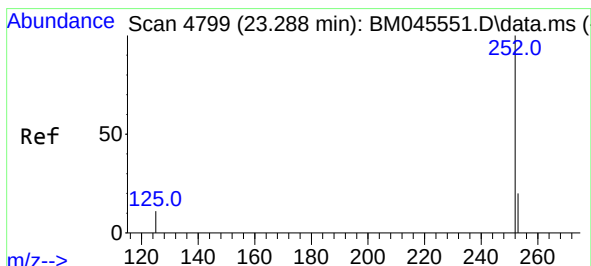
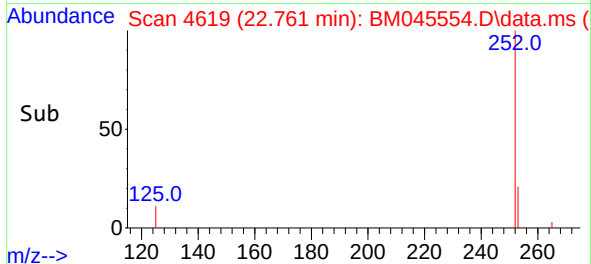
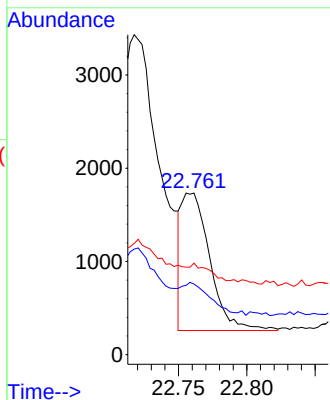
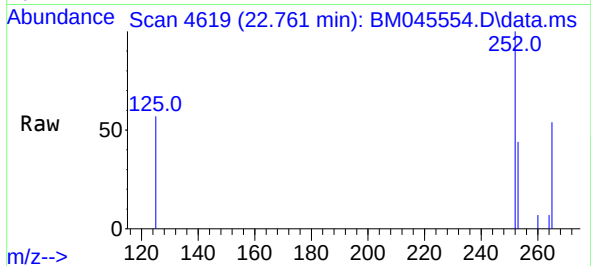
#25  
Benzo(k)fluoranthene  
Concen: 0.136 ng/ul m  
RT: 22.761 min Scan# 4619  
Delta R.T. -0.010 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

Instrument :  
BNA\_M  
ClientSampleId :  
COAL7

Tgt Ion:252 Resp: 2124  
Ion Ratio Lower Upper  
252 100  
253 43.7 25.4 38.0  
125 56.6 14.8 22.2

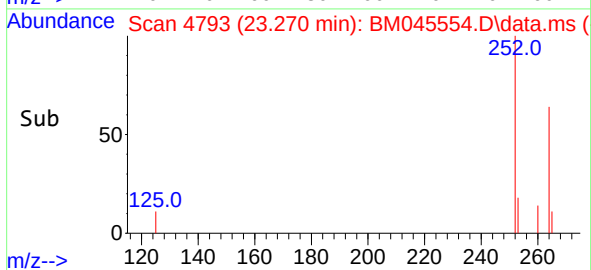
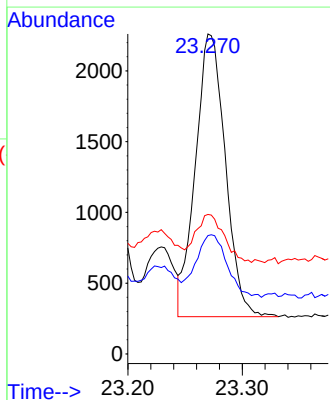
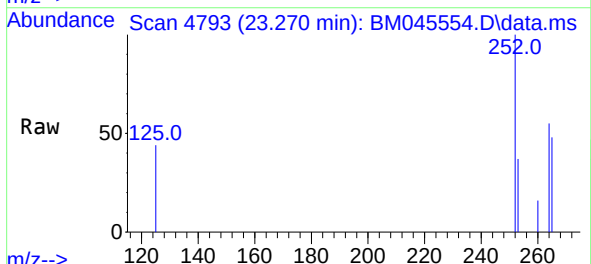
Manual Integrations  
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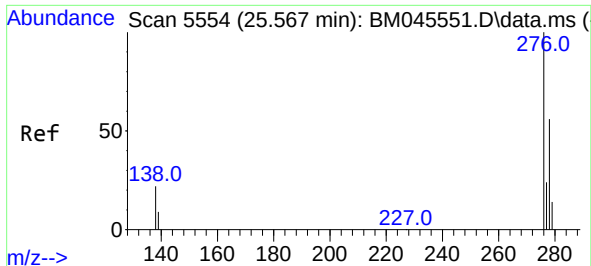
Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024



#26  
Benzo(a)pyrene  
Concen: 0.283 ng/ul  
RT: 23.270 min Scan# 4793  
Delta R.T. -0.021 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

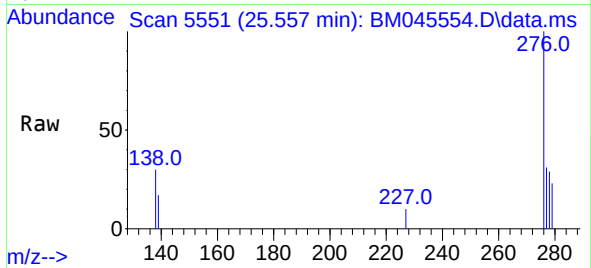
Tgt Ion:252 Resp: 3632  
Ion Ratio Lower Upper  
252 100  
253 37.0 31.6 47.4  
125 43.6 19.5 29.3





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.219 ng/ul  
RT: 25.557 min Scan# 5551  
Delta R.T. -0.014 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

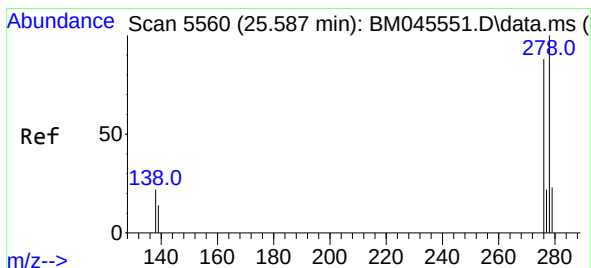
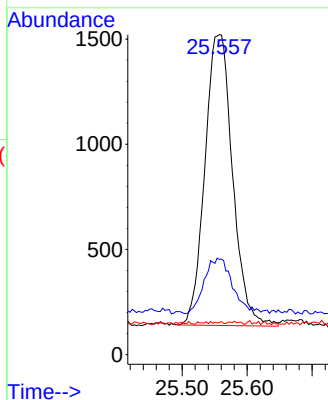
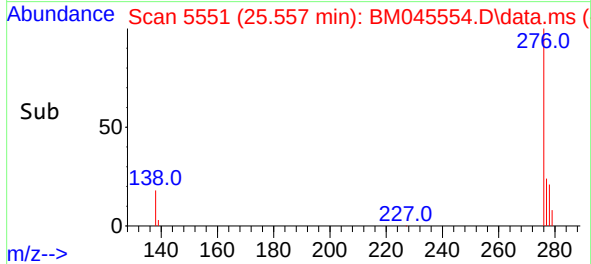
Instrument :  
BNA\_M  
ClientSampleId :  
COAL7



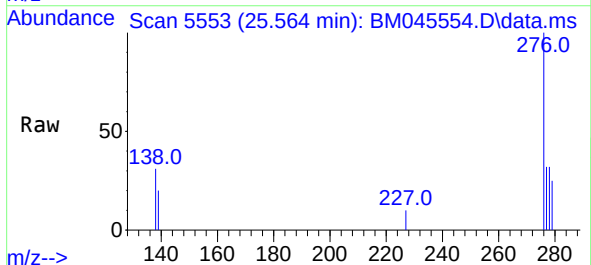
Tgt Ion:276 Resp: 4092  
Ion Ratio Lower Upper  
276 100  
138 19.6 19.8 29.6#  
227 0.0 0.2 0.2#

Manual Integrations  
APPROVED

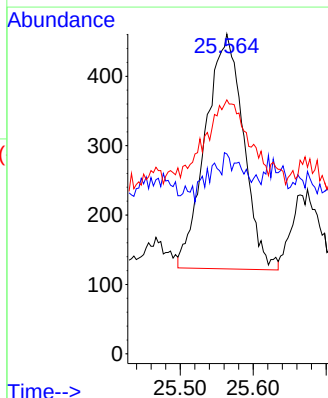
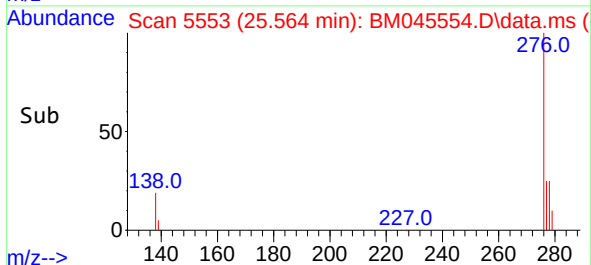
Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024

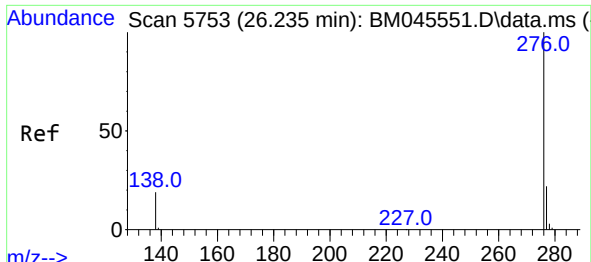


#28  
Dibenzo(a,h)anthracene  
Concen: 0.083 ng/ul  
RT: 25.564 min Scan# 5553  
Delta R.T. -0.024 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20



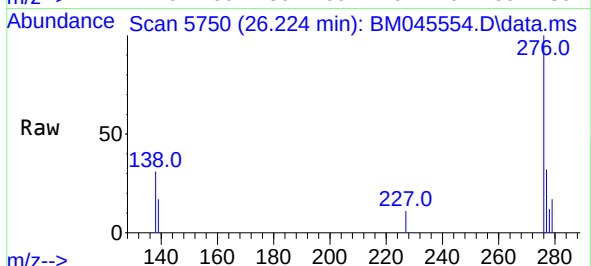
Tgt Ion:278 Resp: 1225  
Ion Ratio Lower Upper  
278 100  
139 62.5 19.0 28.6#  
279 79.4 29.4 44.2#





#29  
Benzo(g,h,i)perylene  
Concen: 0.224 ng/ul  
RT: 26.224 min Scan# 51  
Delta R.T. -0.011 min  
Lab File: BM045554.D  
Acq: 25 Apr 2024 08:20

Instrument :  
BNA\_M  
ClientSampleId :  
C0AL7



Tgt Ion:276 Resp: 3754  
Ion Ratio Lower Upper  
276 100  
138 31.3 20.8 31.2  
277 31.6 21.8 32.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 04/25/2024  
Supervised By :mohammad ahmed 04/27/2024

