

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
 Data File : BM046627.D  
 Acq On : 16 Jul 2024 10:46  
 Operator : MA/JU  
 Sample : P3101-03MS  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4CD6MS

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/16/2024  
 Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 16 12:02:29 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 08:57:27 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.501  | 152  | 3758     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.259 | 136  | 10038    | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.144 | 164  | 6810     | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.899 | 188  | 14610    | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.108 | 240  | 8621     | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.247 | 264  | 11833    | 0.400  | ng/ul  | # 0.00   |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.122  | 96   | 1021     | 0.331  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.859 | 152  | 4657     | 0.288  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.940 | 212  | 10779    | 0.411  | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 2) 1,4-Dioxane              | 3.151  | 88   | 2753     | 0.835  | ng/ul# | 79       |
| 5) Naphthalene              | 10.308 | 128  | 18985    | 0.743  | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 11.936 | 142  | 10832    | 0.604  | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.156 | 142  | 9507     | 0.519  | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.862 | 152  | 50720    | 1.636  | ng/ul  | 97       |
| 11) Acenaphthene            | 14.209 | 153  | 27665    | 1.332  | ng/ul  | 95       |
| 12) Fluorene                | 15.204 | 166  | 38379    | 1.493  | ng/ul  | 98       |
| 14) Pentachlorophenol       | 16.557 | 266  | 4153     | 0.561  | ng/ul  | 99       |
| 15) Phenanthrene            | 16.941 | 178  | 670674   | 16.086 | ng/ul  | 98       |
| 16) Anthracene              | 17.030 | 178  | 176988   | 4.350  | ng/ul  | 97       |
| 19) Fluoranthene            | 18.968 | 202  | 1368385  | 38.643 | ng/ul  | 99       |
| 20) Pyrene                  | 19.331 | 202  | 917594   | 23.934 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.094 | 228  | 555902   | 14.576 | ng/ul  | 98       |
| 22) Chrysene                | 21.143 | 228  | 557433   | 15.106 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.619 | 252  | 776533m  | 16.430 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.657 | 252  | 293284m  | 6.320  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.157 | 252  | 293584m  | 7.547  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.373 | 276  | 290257   | 4.903  | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 25.383 | 278  | 103374   | 2.206  | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 26.021 | 276  | 43309    | 0.917  | ng/ul# | 94       |

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

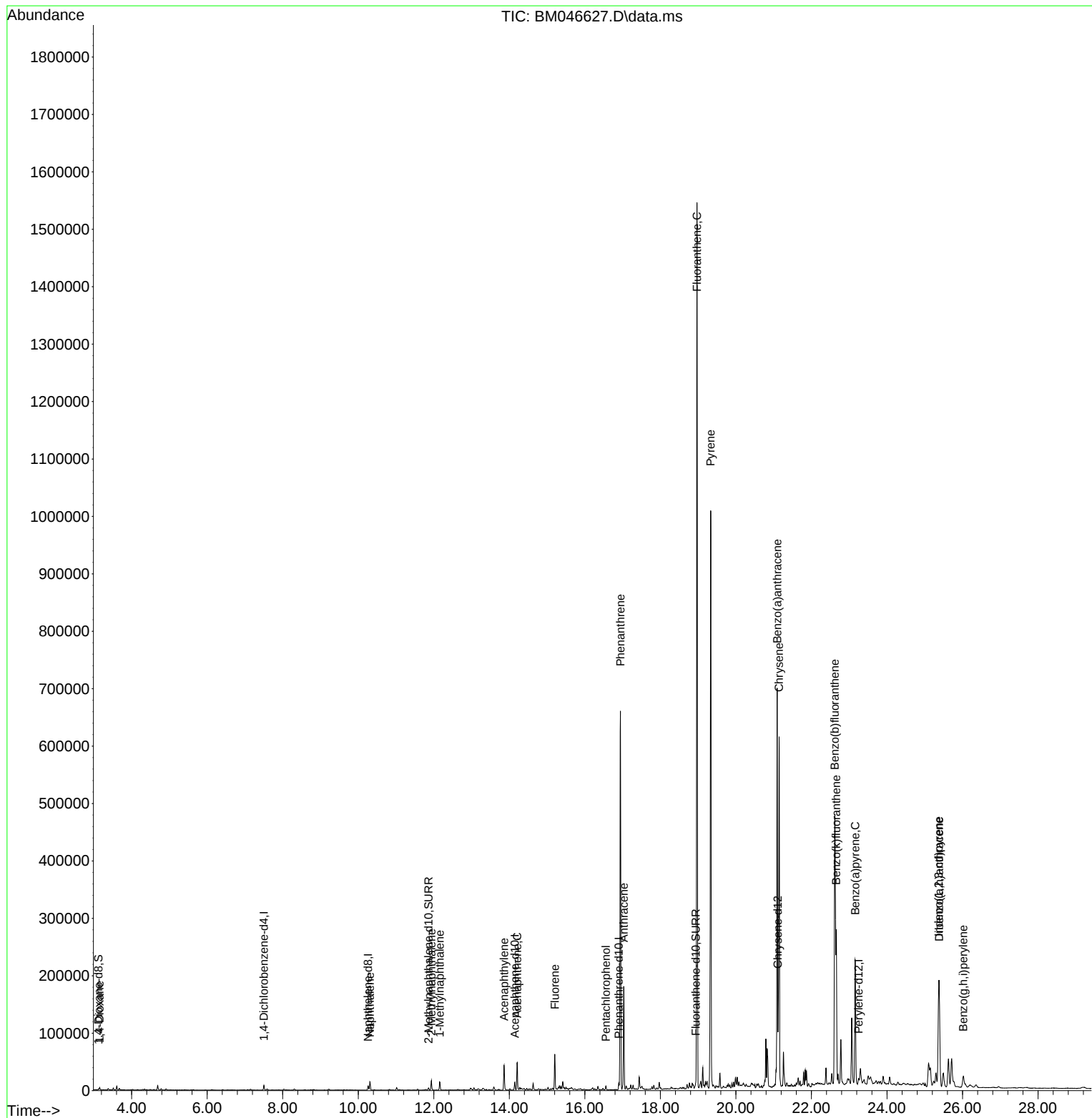
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Data File : BM046627.D  
Acq On : 16 Jul 2024 10:46  
Operator : MA/JU  
Sample : P3101-03MS  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

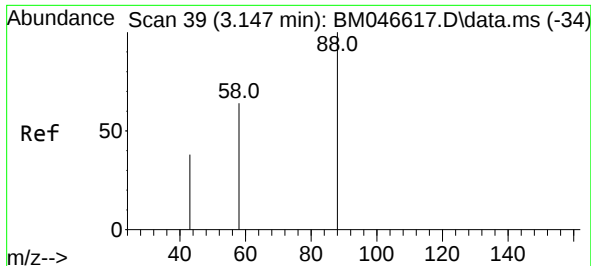
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS

Quant Time: Jul 16 12:02:29 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration

Manual Integrations  
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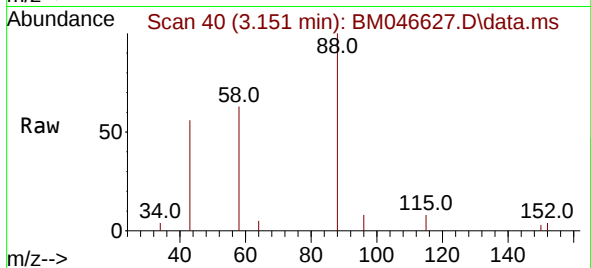
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024





#2  
1,4-Dioxane  
Concen: 0.835 ng/ul  
RT: 3.151 min Scan# 40  
Delta R.T. -0.000 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

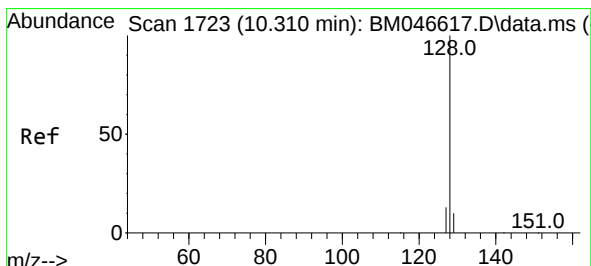
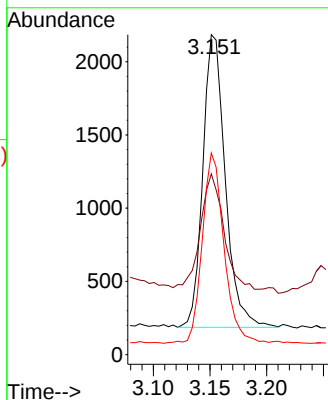
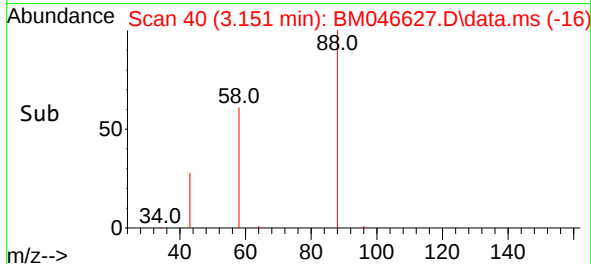
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



Tgt Ion: 88 Resp: 275  
Ion Ratio Lower Upper  
88 100  
43 56.5 70.2 105.4  
58 63.1 48.2 72.4

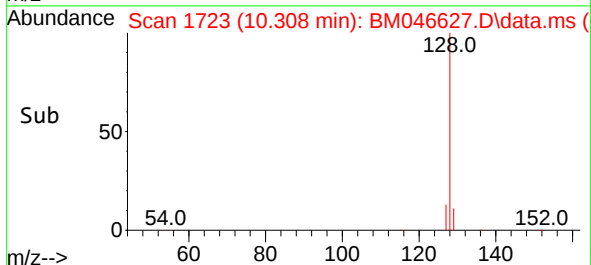
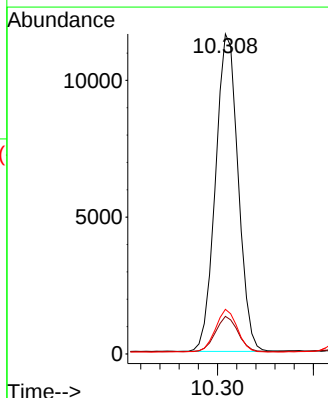
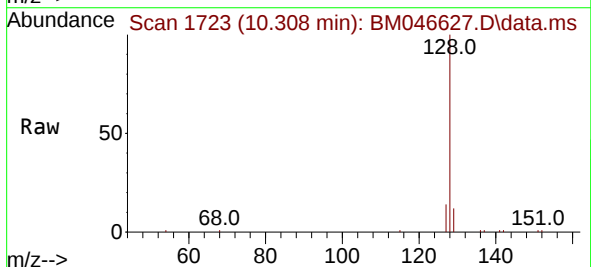
Manual Integrations  
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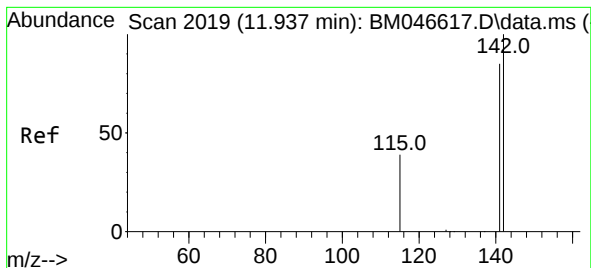
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#5  
Naphthalene  
Concen: 0.743 ng/ul  
RT: 10.308 min Scan# 1723  
Delta R.T. -0.007 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

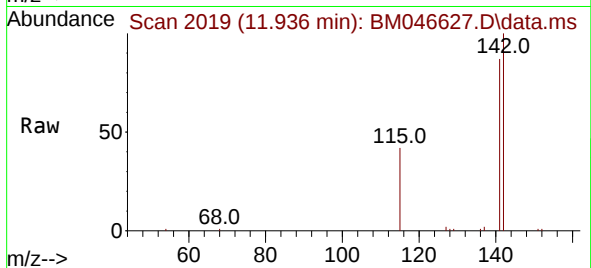
Tgt Ion:128 Resp: 18985  
Ion Ratio Lower Upper  
128 100  
129 11.7 10.3 15.5  
127 14.0 12.2 18.4





#7  
2-Methylnaphthalene  
Concen: 0.604 ng/ul  
RT: 11.936 min Scan# 2019  
Delta R.T. -0.007 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

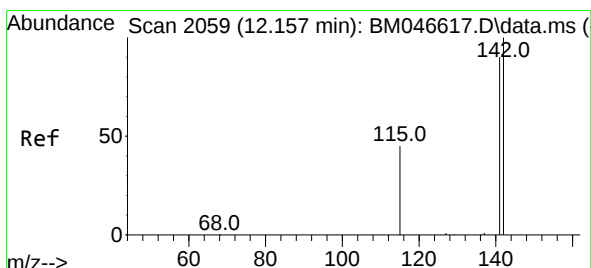
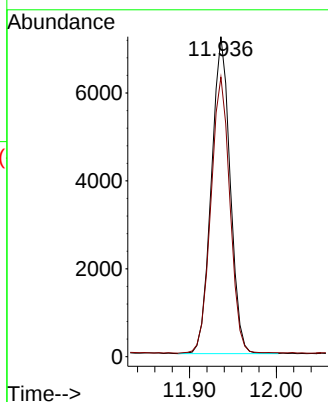
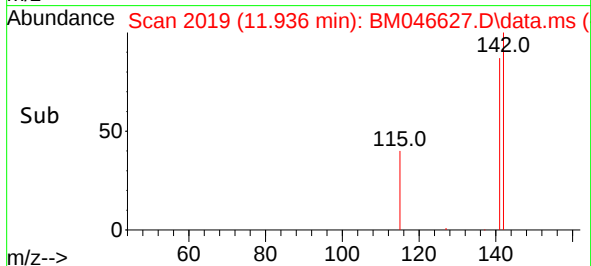
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



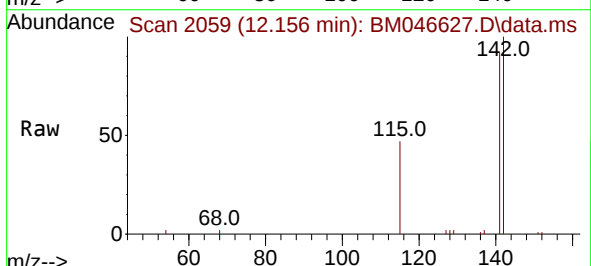
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Ion Ratio Lower Upper  
142 100  
141 88.1 70.3 105.5

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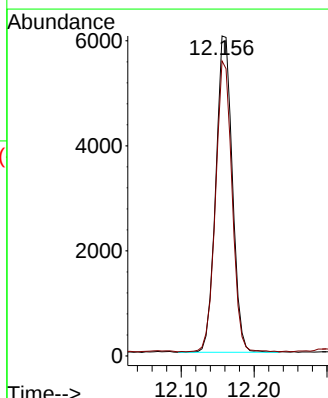
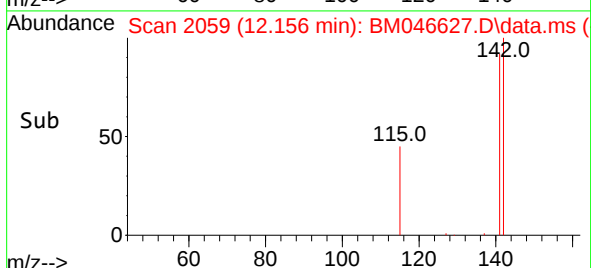
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

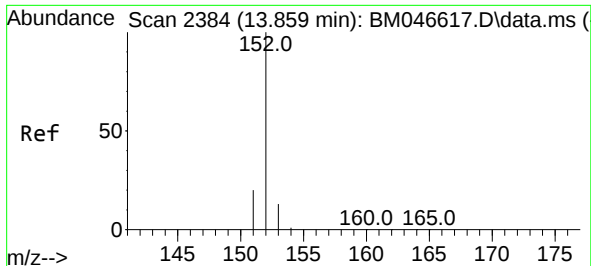


#8  
1-Methylnaphthalene  
Concen: 0.519 ng/ul  
RT: 12.156 min Scan# 2059  
Delta R.T. -0.007 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46



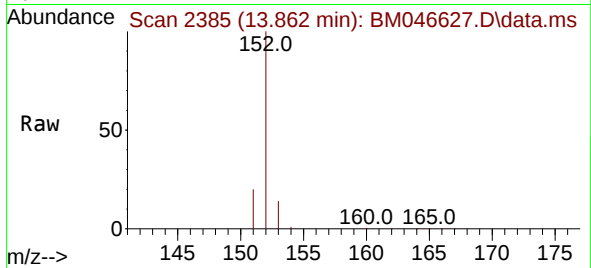
Tgt Ion:142 Resp: 9507  
Ion Ratio Lower Upper  
142 100  
141 91.4 73.9 110.9





#10  
Acenaphthylene  
Concen: 1.636 ng/ul  
RT: 13.862 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

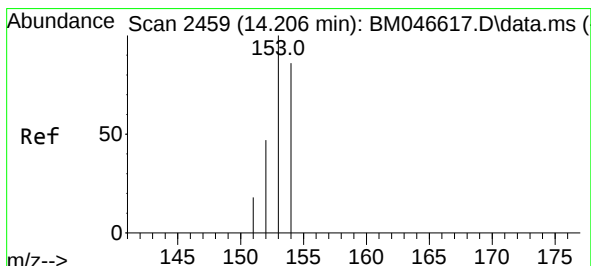
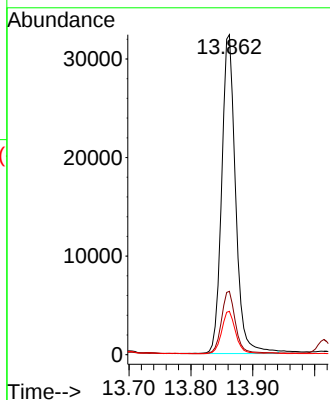
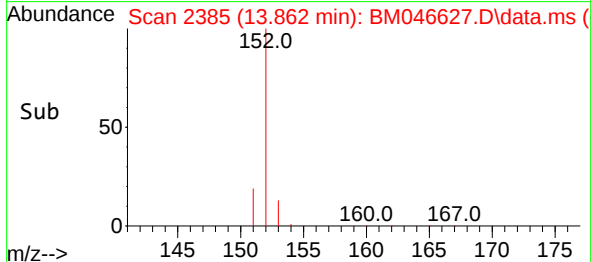
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



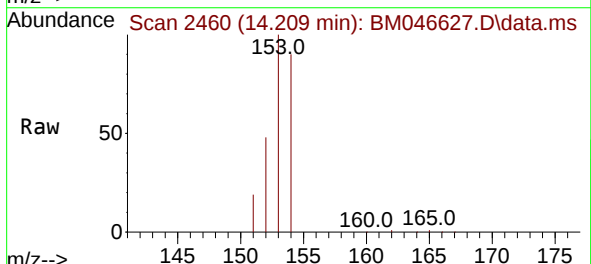
Tgt Ion:152 Resp: 50720  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.4 24.6  
153 13.6 12.4 18.6

Manual Integrations  
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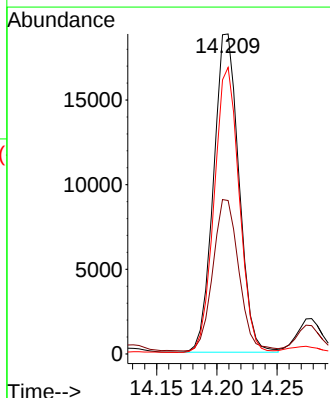
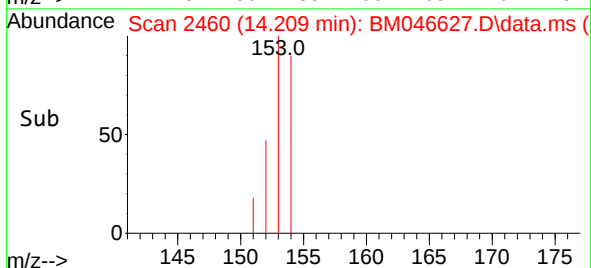
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

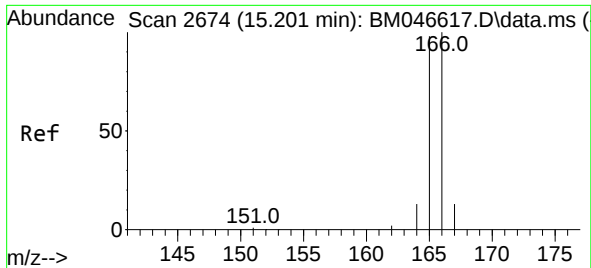


#11  
Acenaphthene  
Concen: 1.332 ng/ul  
RT: 14.209 min Scan# 2460  
Delta R.T. -0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46



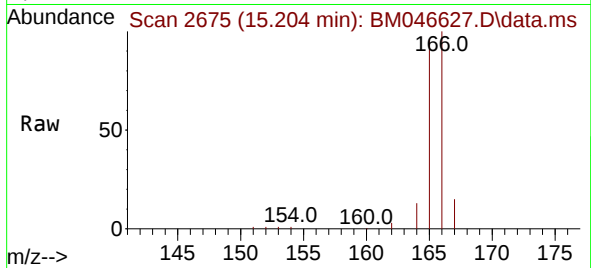
Tgt Ion:153 Resp: 27665  
Ion Ratio Lower Upper  
153 100  
152 48.0 43.0 64.6  
154 89.5 69.9 104.9





#12  
Fluorene  
Concen: 1.493 ng/ul  
RT: 15.204 min Scan# 2674  
Delta R.T. -0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

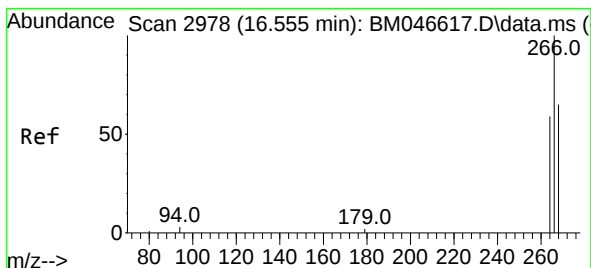
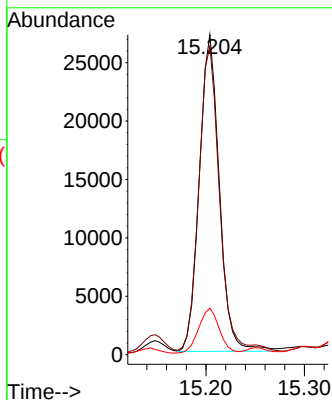
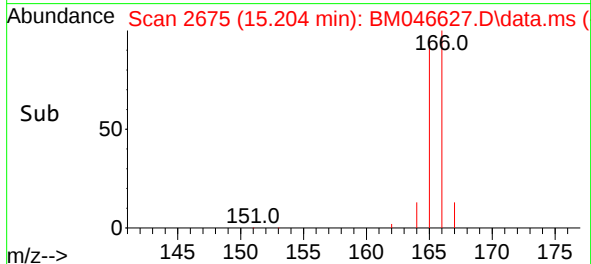
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



Tgt Ion:166 Resp: 38379  
Ion Ratio Lower Upper  
166 100  
165 96.4 76.1 114.1  
167 14.5 12.5 18.7

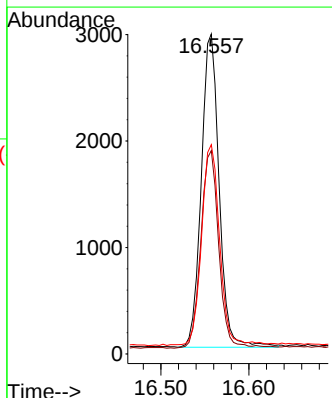
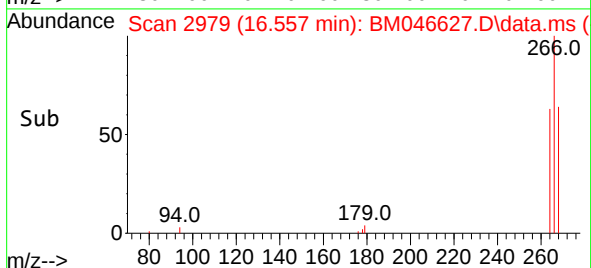
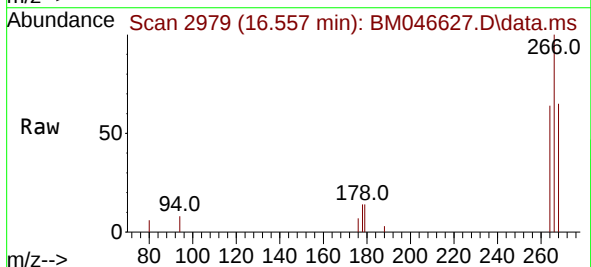
Manual Integrations  
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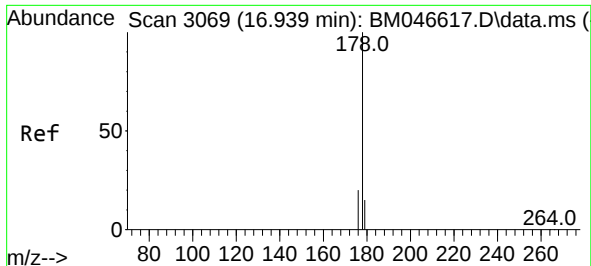
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#14  
Pentachlorophenol  
Concen: 0.561 ng/ul  
RT: 16.557 min Scan# 2979  
Delta R.T. 0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

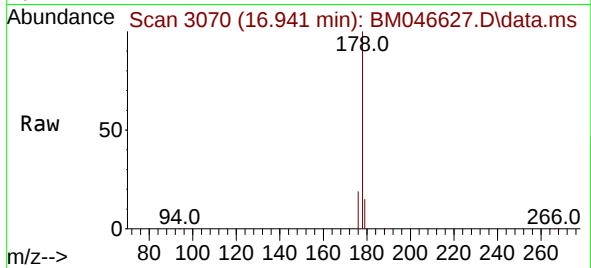
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Ion Ratio Lower Upper  
266 100  
264 63.5 50.1 75.1  
268 65.5 52.5 78.7





#15  
Phenanthrene  
Concen: 16.086 ng/ul  
RT: 16.941 min Scan# 3069  
Delta R.T. -0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

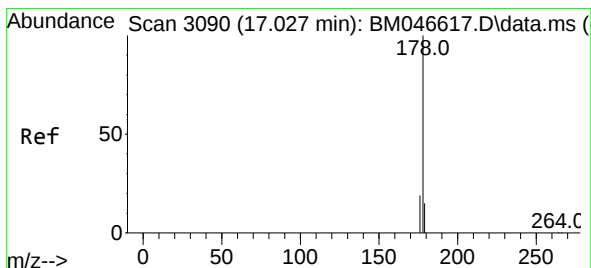
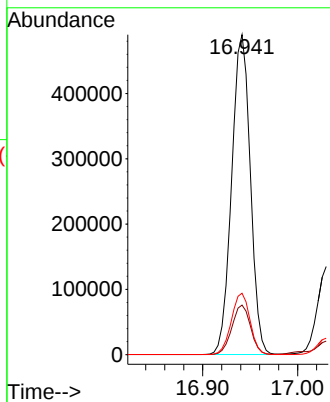
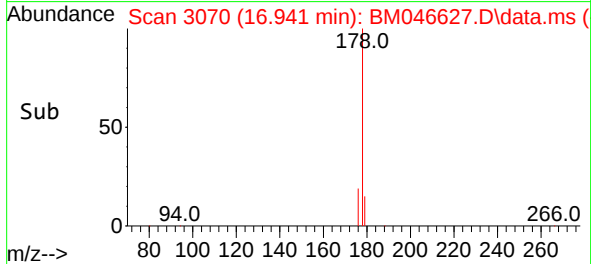
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



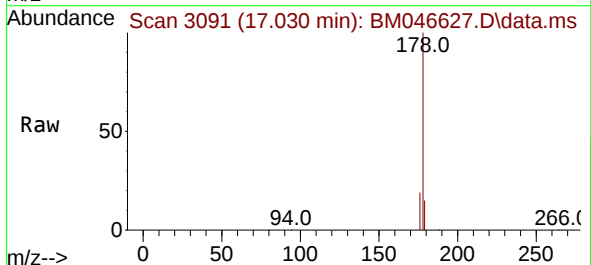
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178 100  
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176 19.2 16.0 24.0

Manual Integrations  
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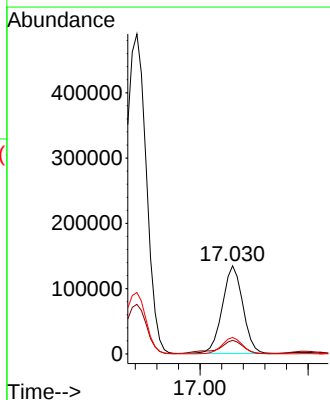
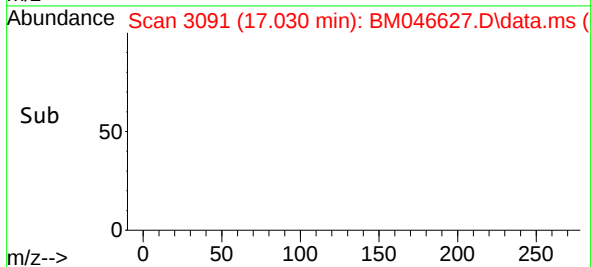
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

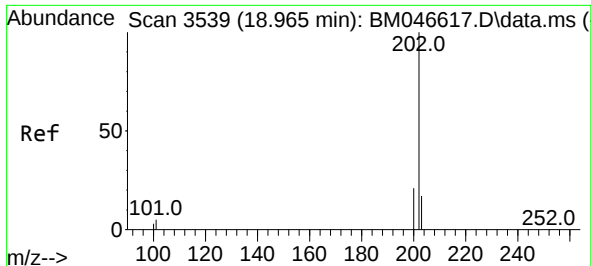


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Anthracene  
Concen: 4.350 ng/ul  
RT: 17.030 min Scan# 3091  
Delta R.T. -0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46



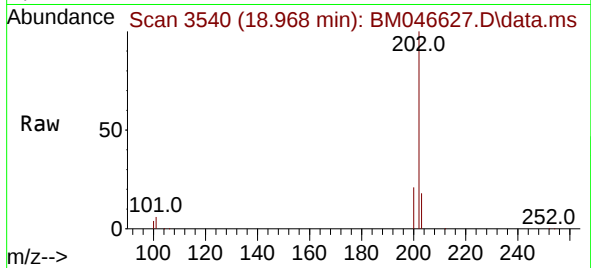
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Ion Ratio Lower Upper  
178 100  
179 15.5 13.5 20.3  
176 18.6 15.7 23.5





#19  
Fluoranthene  
Concen: 38.643 ng/u1  
RT: 18.968 min Scan# 3540  
Delta R.T. -0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

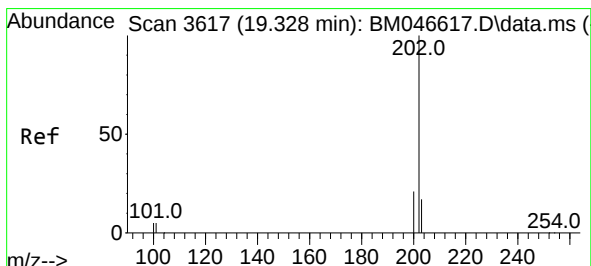
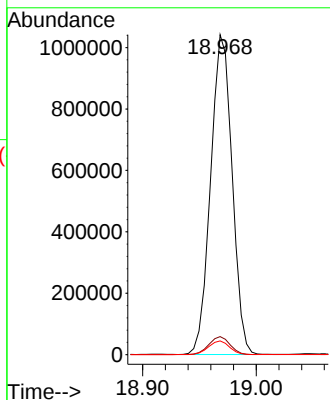
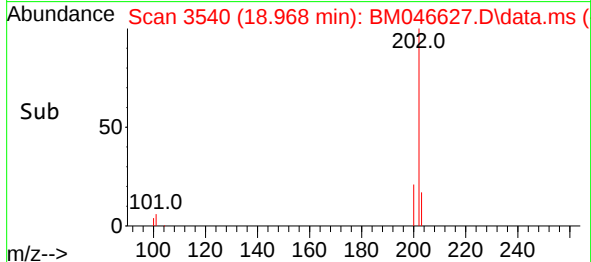
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



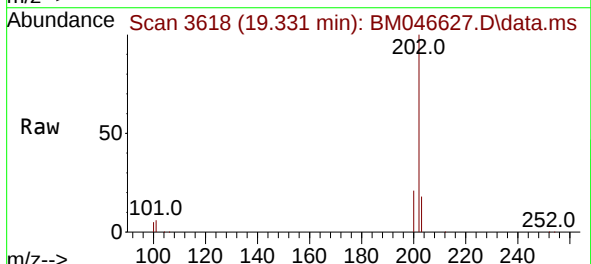
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100 4.3 3.0 4.6

Manual Integrations  
APPROVED

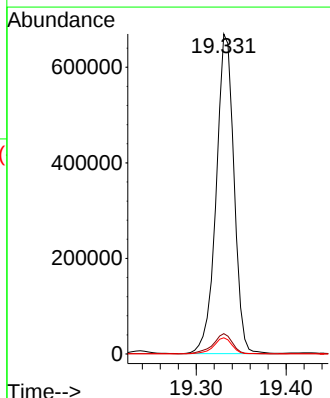
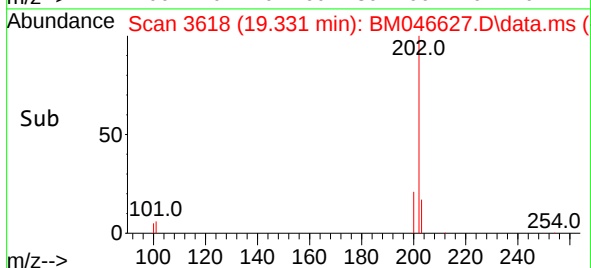
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

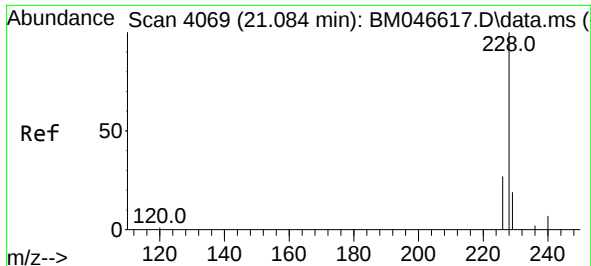


#20  
Pyrene  
Concen: 23.934 ng/u1  
RT: 19.331 min Scan# 3618  
Delta R.T. -0.002 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46



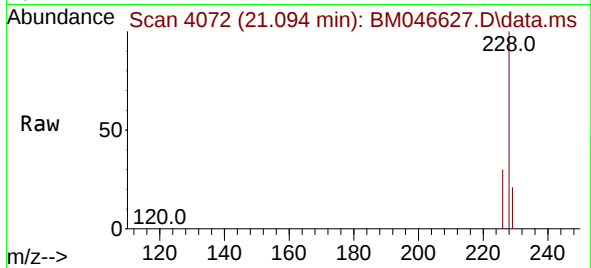
Tgt Ion:202 Resp: 917594  
Ion Ratio Lower Upper  
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101 6.4 5.1 7.7  
100 5.1 3.8 5.6





#21  
Benzo(a)anthracene  
Concen: 14.576 ng/ul  
RT: 21.094 min Scan# 4069  
Delta R.T. 0.006 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

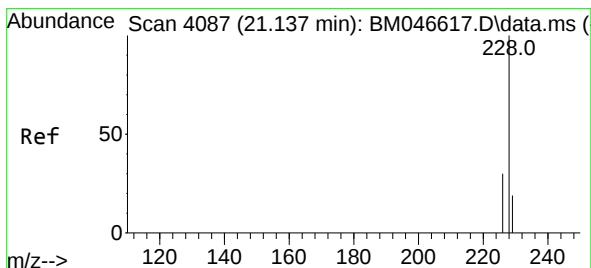
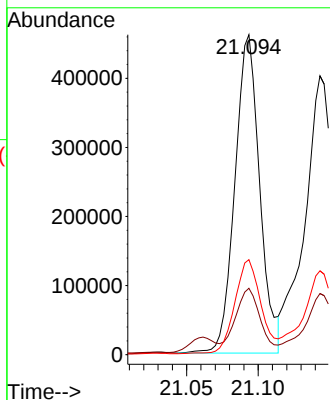
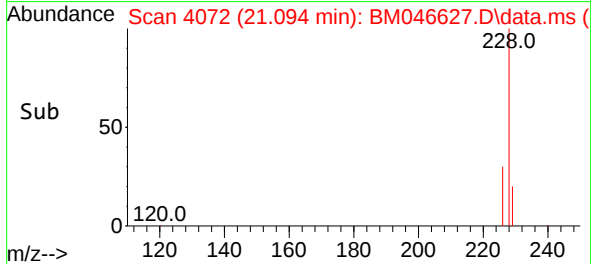
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



Tgt Ion:228 Resp: 555902  
Ion Ratio Lower Upper  
228 100  
229 20.7 16.5 24.7  
226 29.7 22.5 33.7

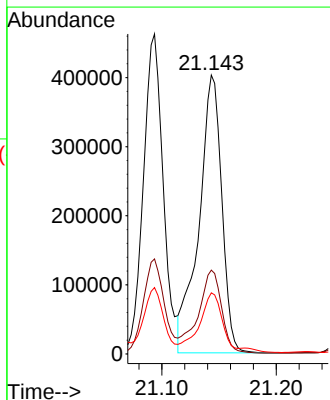
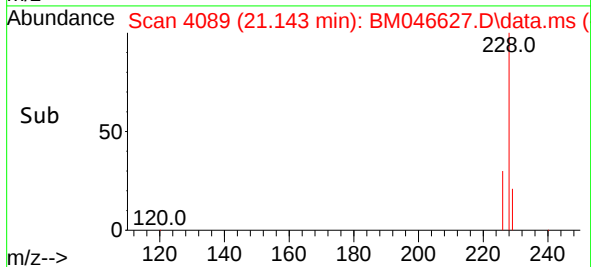
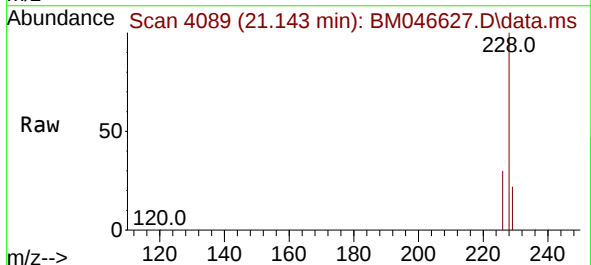
Manual Integrations  
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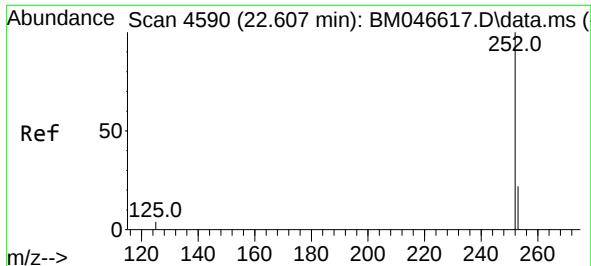
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#22  
Chrysene  
Concen: 15.106 ng/ul  
RT: 21.143 min Scan# 4089  
Delta R.T. 0.003 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

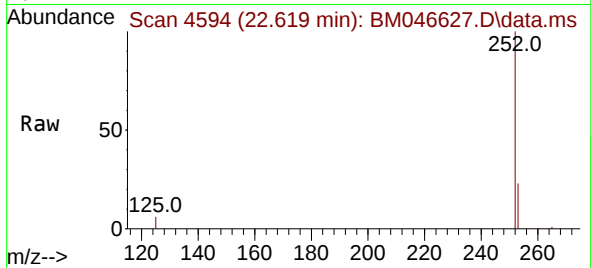
Tgt Ion:228 Resp: 557433  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.3 36.5  
229 21.9 16.4 24.6





#24  
Benzo(b)fluoranthene  
Concen: 16.430 ng/ul m  
RT: 22.619 min Scan# 4594  
Delta R.T. 0.009 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

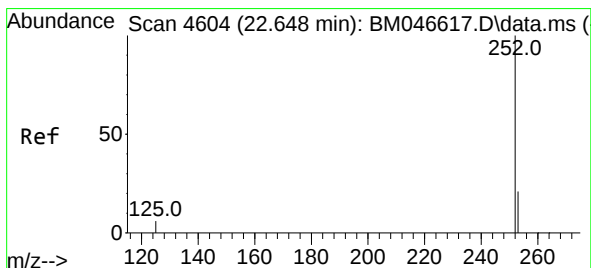
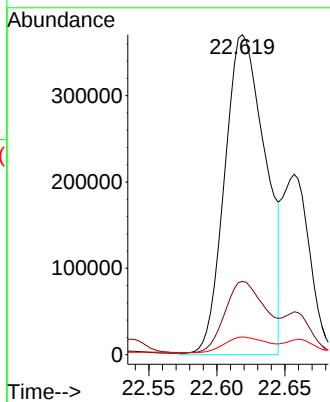
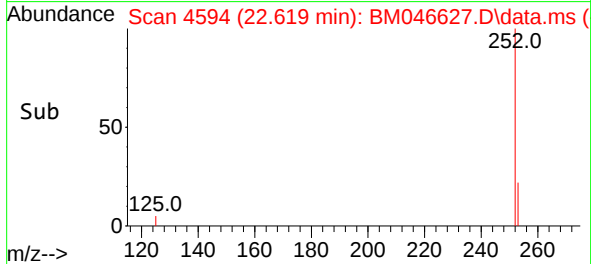
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



Tgt Ion:252 Resp: 77653  
Ion Ratio Lower Upper  
252 100  
253 22.9 0.0 56.2  
125 5.5 0.0 17.8

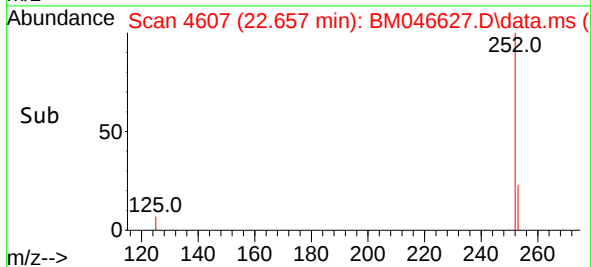
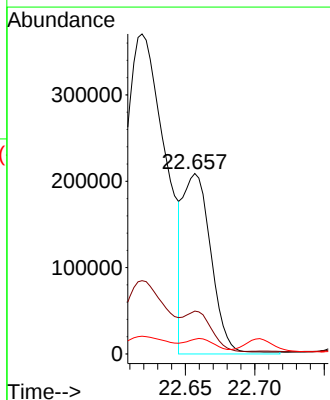
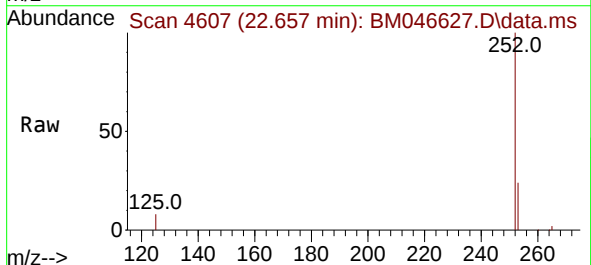
Manual Integrations  
APPROVED

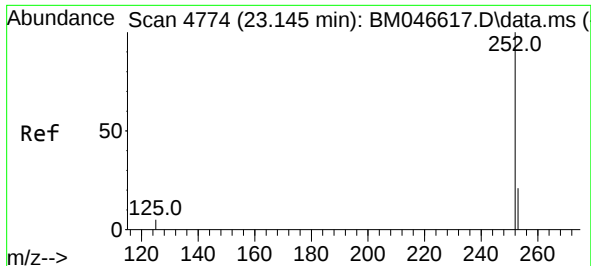
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#25  
Benzo(k)fluoranthene  
Concen: 6.320 ng/ul m  
RT: 22.657 min Scan# 4607  
Delta R.T. 0.006 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

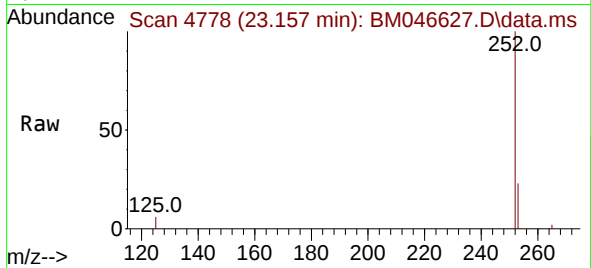
Tgt Ion:252 Resp: 293284  
Ion Ratio Lower Upper  
252 100  
253 23.8 22.4 33.6  
125 8.1 7.0 10.4





#26  
Benzo(a)pyrene  
Concen: 7.547 ng/ul m  
RT: 23.157 min Scan# 4774  
Delta R.T. 0.006 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

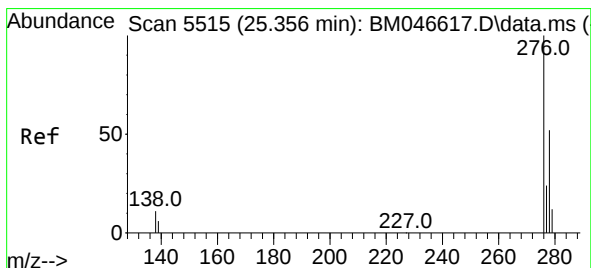
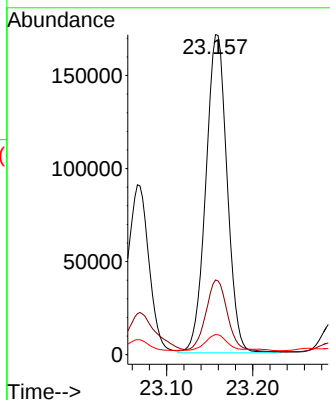
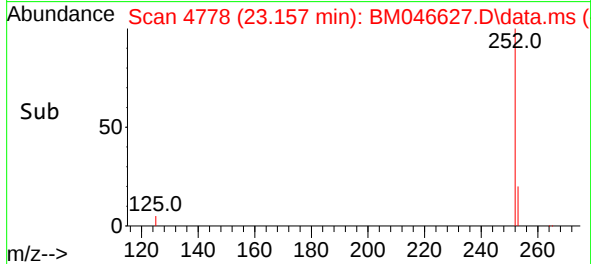
Instrument :  
BNA\_M  
ClientSampleId :  
A4CD6MS



Tgt Ion:252 Resp: 293584  
Ion Ratio Lower Upper  
252 100  
253 23.3 24.0 36.0#  
125 6.3 8.2 12.2#

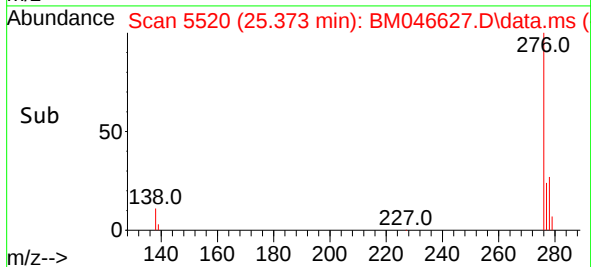
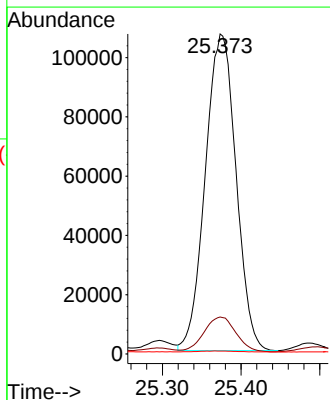
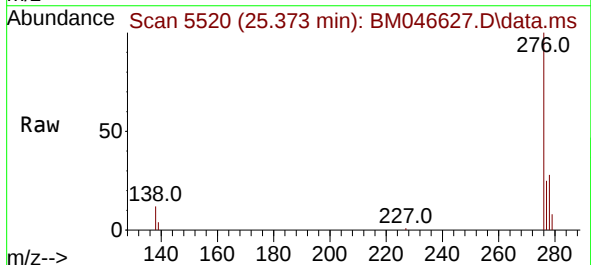
Manual Integrations  
APPROVED

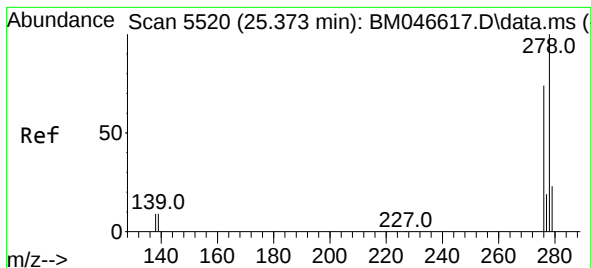
Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 4.903 ng/ul  
RT: 25.373 min Scan# 5520  
Delta R.T. 0.013 min  
Lab File: BM046627.D  
Acq: 16 Jul 2024 10:46

Tgt Ion:276 Resp: 290257  
Ion Ratio Lower Upper  
276 100  
138 11.3 0.0 0.0#  
227 0.4 0.2 0.2#





#28

Dibenzo(a,h)anthracene

Concen: 2.206 ng/ul

RT: 25.383 min Scan# 51

Delta R.T. -0.000 min

Lab File: BM046627.D

Acq: 16 Jul 2024 10:46

Instrument :

BNA\_M

ClientSampleId :

A4CD6MS

Tgt Ion:278 Resp: 103374

Ion Ratio Lower Upper

278 100

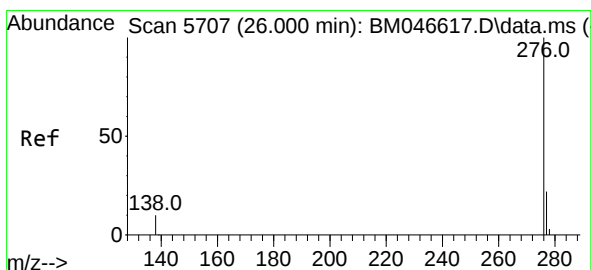
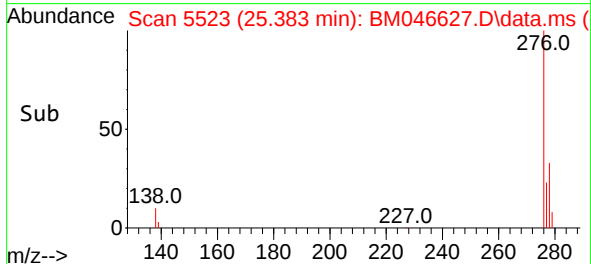
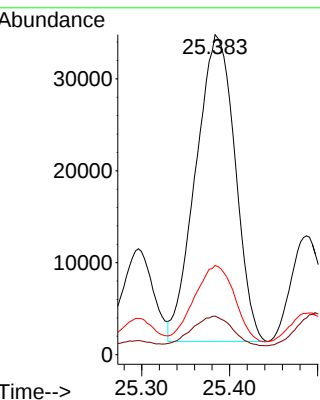
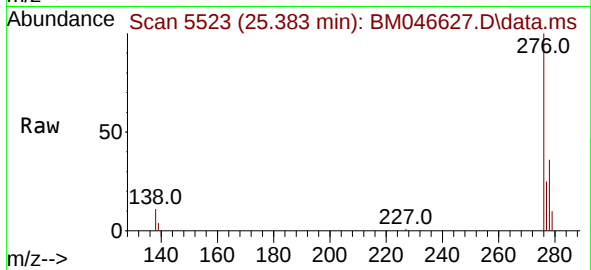
139 12.0 9.1 13.7

279 27.9 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#29

Benzo(g,h,i)perylene

Concen: 0.917 ng/ul

RT: 26.021 min Scan# 5713

Delta R.T. 0.017 min

Lab File: BM046627.D

Acq: 16 Jul 2024 10:46

Tgt Ion:276 Resp: 43309

Ion Ratio Lower Upper

276 100

138 16.0 10.2 15.4#

277 28.5 20.9 31.3

